OFFICIAL GAZETTE UNITED STATES PATENT OFFICE

JAN. & FEB. 1954

VOLS 678 & 679

MICROFILMED BY
MICRO PHOTO INC
CLEVELAND, OHIO

OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE

VOLUME 678

JANUARY

1954

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1954

CONTENTS

	Page
DECISIONS IN PATENT AND TRADE-MARK CASES, January 5, 12, 19, 26	5, 303, 587, 859
TRADE-MARKS:	
Published, January 5, 12, 19, 26	11, 309, 593, 867
Registrations Granted, January 5, 12, 19, 26	34, 341, 631, 890
Registrations Renewed, January 5, 12, 19, 26	44, 353, 642, 899
Registrations Amended, Disclaimed, Corrected, Etc., January 5, 12, 19, 26	46, —, 645, —
Registrations, New Certificates, January 5, 12, 19, 26	—, 354, —, —
Registrations Republished, January 5, 12, 19, 26	46, 355, 645, 899
REISSUES, January 5, 12, 19, 26	49, 359, —, 903
PLANT PATENTS, January 5, 12, 19, 26	50, 361, 651, 904
PATENTS, January 5, 12, 19, 26	51, 363, 652, 905
ABSTRACTS OF APPLICATIONS, January 5, 12, 19, 26	—, —, —, 1104
DESIGNS, January 5, 12, 19, 26	292, 579, 847, 1105

ANNOUNCEMENTS

	Page
APPLICATIONS—Condition of pending	3, 301, 585, 857
NOTICES:	
Applicant's address, In re—*Rule 61*	864
Cancellation notice:	
Wilkins, Fred R. (6110)	864
Disclaimers:	
Adler, Robert	590
Witzel, Ernst	305
Errata:	
Patent No. 2,663,619 withdrawn from issue	8
Patent No. 2,663,934 withdrawn from issue	305
Foreign patents received in the scientific library as of December 31, 1953	864
Internation Convention for the Protection of Industrial Property—Adherence of Greece	8
Manual of patent examining procedure—Second section, available for sale	305
Mounted drawings, In re	8
Patents, List of adjudicated	305, 590, 864
PATENT SUITS	7, 304, 589
REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE	9, 306, 591, 865
TRADE-MARK SUITS	7, 304

TABLE OF CASES REPORTED

	Page		Page
* Aluminum Air Seal Manufacturing Co., (The) *v.* Trim-Set Corporation	587	* Gallagher et al. *v.* Smith	859
* Buckendale, In re	303	* Zalkind, In re	5

[Decisions of the United States Court of Customs and Patent Appeals are indicated by an asterisk (*).]

OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE

VOLUME 677

DECEMBER

1953

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1954

CONTENTS

	Page
DECISIONS IN PATENT AND TRADE-MARK CASES, December 1, 8, 15, 22, 29	5, 275, 557, 843, 1143
TRADE-MARKS:	
Published, December 1, 8, 15, 22, 29	11, 283, 569, 855, 1153
Registrations Granted, December 1, 8, 15, 22, 29	34, 309, 597, 874, 1172
Registrations Renewed, December 1, 8, 15, 22, 29	43, 323, 605, 884, 1181
Registrations Canceled and Surrendered, December 1, 8, 15, 22, 29	—, —, 607, —, 1183
Registrations Amended, Disclaimed, Corrected, Etc., December 1, 8, 15, 22, 29	45, 325, 606, —, 1184
Registrations, New Certificates, December 1, 8, 15, 22, 29	—, 325, 606, —, 1184
Registrations Republished, December 1, 8, 15, 22, 29	46, 325, 607, 886, 1185
REISSUES, December 1, 8, 15, 22, 29	49, —, 611, 891, 1189
PLANT PATENTS, December 1, 8, 15, 22, 29	—, 329, 612, 892, 1190
PATENTS, December 1, 8, 15, 22, 29	51, 330, 613, 893, 1192
DESIGNS, December 1, 8, 15, 22, 29	258, 543, 830, 1127, 1379

ANNOUNCEMENTS

	Page
APPLICATIONS—Condition of pending	3, 273, 555, 841, 1141
NOTICES:	
Adverse decisions in interferences	8, 566, 1147
Classification of inventions:	
Changes in—*Order No. 156*	1148
Transfer of class—*Order No. 155*	279
Commissioner's Administrative Orders:	
Order No. 44 (Division 68 abolished)	8
Order No. 45 (Division 10 abolished)	566
Disclaimers:	
Gilman, Samuel	566
Gilmore, Arville W., et al	279
Greene, Albert E	8
Jacob, Morris L	279
Mofenson, Jack	566
Steinberg, Richard K	8
Sultan, Ottis A	279
Vernam, Gilbert S	279
Erratum:	
Patent No. 2,662,282 withdrawn from issue	1148
Patents, List of adjudicated	8, 279, 566, 852
Search room closing, Notice of	566, 852
Trade name, Notice of tentative recordation of	852, 1148
PATENT SUITS	7, 278, 565, 1146
REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE	9, 280, 567, 853, 1151
TRADE-MARK SUITS	8, 278, 565, 851, 1147

TABLE OF CASES CITED

	Page
* Ada Milling Co., In re	1145
* Ankney, In re	1143
* Arbert et al., In re	843
* Fisk, In re	557
* Lewis, I., Cigar Mfg. Co., In re	275
* Lounilet et Lavinge, Jean, In re	559
* Lurelle Guild, Etc., In re	5
* Phelan, In re	276
* Prutton, In re	849
* Radio Corp. of America, In re	562
* Sylvan Sweets Co., In re	1144
* Zemon, In re	563

[Decisions of the United States Court of Customs and Patent Appeals are indicated by an asterisk (*).]

January 5, 1954 Volume 678 Number 1

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS



Condition of Applications Under Examination at Close of Business December 18, 1953

Total number of patent applications awaiting action, 105,303. Date of oldest new application, February 6, 1953; date of oldest amended application, February 18, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	3-20-53	3-23-53	1371
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	3-24-53	3-23-53	1250
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Compositions (part).	4-14-53	4-13-53	1994
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	3-25-53	3-26-53	1570
5. ROBINSON, C. W., Harvesters; Harrows and Diggers (part); Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates.	3-31-53	3-30-53	1391
6. SURLE, H., Natural Resins; Proteins; Heterocyclic; Amides; Amines; General Organic Processes	2-20-53	2-19-53	2148
7. GONSALVES, J. E., Optics; Photography (part)	3-4-53	3-4-53	1893
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	4-21-53	4-21-53	1453
9. BRANSON, J. H., Pumps; Fans; Turbines	3-18-53	3-18-53	1234
10. Abolished as of November 16, 1953. See Commissioner's Administrative Order No. 45.			
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	4-3-53	4-13-53	1221
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches; Interrelated Clutch and Motor or Transmission Controls.	3-30-53	3-20-53	1827
13. BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part)—e. g. Special Work, Forging and Welding, Plastic Working, Drawing, Sawing, Milling, Planing, Turning.	3-18-53	3-18-53	1289
14. MANIAN, J. C., Metal Working (part)—e. g. Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes.	4-7-53	4-1-53	1513
15. BRINDISI, M. V., Plastics; Plastic Block and Earthernware Apparatus; Glass	3-20-53	3-24-53	1765
16. LOVEWELL, N. N., Television; Telephony; Recorders	2-20-53	2-24-53	1820
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	3-23-53	3-18-53	1444
18. KURZ, J. A., Power Plants; Speed Responsive Devices; Brakes	3-19-53	3-23-53	1383
19. PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners	3-6-53	3-3-53	1100
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking.	4-15-53	4-15-53	1218
21. MADER, R. C., Textiles	3-25-53	3-30-53	1261
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling.	4-3-53	4-3-53	1177
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	3-10-53	3-2-53	1042
24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	5-25-53	6-3-53	1017
25. NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus.	4-1-53	3-23-53	1470
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	4-3-53	4-3-53	1968
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	4-8-53	4-13-53	1271
28. BRAUNER, R. H., Steam and Internal Combustion Engines; Fluid ServoMotors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes.	4-13-53	4-2-53	1396
29. HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Ruhber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers.	3-30-53	4-1-53	1322
30. BISHOFF, A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidostats; Illuminating Burners; Doors and Windows; Fluid Sprinkling, Spraying and Diffusing.	6-1-53	6-1-53	1477
31. HUTCHINSON, E. W., Mineral Oils; Urea Adducts; Silicon Containing Carbon Compounds; hydrogenation of Carbon Oxides; Partial Oxidation of Non-Aromatic Carbon Mixtures.	3-16-53	3-12-53	1843
32. BERMAN, H., Gas and Liquid Carburetors; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.	4-16-53	4-15-53	1426
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	3-16-53	3-16-53	2015
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	3-9-53	3-9-53	1336
35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet; Kitchen and Table Articles	3-25-53	3-24-53	1449
36. McFADYEN, A. D., Measuring and Testing	4-1-53	4-8-53	1072
37. LEVY, M. L., Electricity-Switches, Welding, Heating	4-23-53	4-20-53	1776
38. MARMELSTEIN, N., Lignins; Azo; Carbohydrate; Carbocyclic or Acyclic Compounds (part), e. g. Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Hydroxy.	3-18-53	3-18-53	2071
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	4-20-53	4-20-53	1555
40. DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages	5-4-53	5-4-53	2141

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	4-3-53	4-7-53	1758
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Connectors.	3-19-53	3-23-53	1712
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	3-9-53	3-16-53	1957
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	4-7-53	4-6-53	1296
46. O'LEARY, R. A., Abolished as of January 4, 1954. See Commissioner's Administrative Order No. 46 (O. G.).	3-13-53	3-13-53	1183
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	4-3-53	3-30-53	1576
48. BERNSTEIN, S., Electricity; Electrical Conversion Systems, Measuring and Testing (part), Ignitors, Adjustable Induction Devices.	3-9-53	3-10-53	1865
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	3-30-53	3-24-53	1440
50. BENGEL, W. G., Synthetic Resins; Rubber	5-18-53	5-18-53	2050
51. YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Duplex or Multiplex Radio Communication; Piezoelectric Crystal Devices; Music.	4-6-53	4-2-53	1563
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	4-28-53	4-27-53	1923
53. REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Metal Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.	4-2-53	4-2-53	1629
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits, Ray Energy Applications.	3-30-53	3-26-53	1936
55. KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors.	3-2-53	3-2-53	1671
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	4-30-53	4-30-53	1394
57. MILLER, A. B., (DURHAM, B. G., Acting), Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	4-20-53	4-8-53	1754
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	3-20-53	3-23-53	1354
59. HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	3-23-53	3-23-53	1531
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	5-4-53	5-25-53	919
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	4-13-53	4-9-53	1860
63. WINKELSTEIN, A. H., Foods and Beverages; Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part).	3-13-53	3-11-53	2019
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	4-1-53	3-30-53	1778
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, L., Geometric Instruments; Automatic Weighers; Weighing Scales; Acoustics	4-14-53	4-6-53	1106
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	4-2 53	4-8-53	1671
68. Abolished as of November 2, 1953. See Commissioner's Administrative Order No. 44.			
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Electrical Conductors, Insulators and Conduits.	3-30-53	3-25-53	1650
70. BREWRINK, J. L., Guns and Torpedoes; Explosive Charge Making; Electrical Directional and Distance Instruments; Radio Antennae; Radar; Actinide Compounds; Explosive Compositions; Mass Spectrometers.	2-6-53	2-18-53	3675
DESIGNS: A—BREHM, G. L., Industrial Arts	7-2-53	7-6-53	1177
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	8-5-53	8-24-53	887

Number of new applications received week ending November 27, 1953

PATENTS 1,382. DESIGNS 125. REISSUES 0. TOTAL 1,507.

Total number of trade-mark applications awaiting action (including renewals and republications), 12,339.
Date of oldest new application, July 18, 1953; date of oldest amended application, July 11, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	7-21-53	7-21-53	2983
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	7-18-53	7-18-53	3033
Renewals (All Classes)	10-9-53	11-18-53	469
Republications (All Classes)	10-15-53	11-18-53	258
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	7-22-53	7-20-53	2703
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107.	7-20-53	7-11-53	2893

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE ZALKIND

No. 5981. Decided June 17, 1953. Petition for re-hearing denied September 28, 1953

[206 F.2d 934; 99 USPQ 120]

PATENTABILITY—PARTICULAR SUBJECT MATTER—METHOD OF FORMING AN EXPANDED SHEET.

A certain claim to a method of forming an expanded sheet *Held* properly rejected as non-inventive over the cited prior art.

APPEAL from Patent Office. Serial No. 582,755.

AFFIRMED.

Albert M. Zalkind for appellant.

E. L. Reynolds (*Clarence W. Moore* of counsel) for the Commissioner of Patents.

WORLEY, *J.*:

Philip Zalkind appeals here from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner in finally rejecting claim 20 in appellant's application for a patent for "Expanded Sheet and Method for Making Same." In rejecting the claim, the tribunals of the Patent Office held the limitations disclosed therein to be unpatentable over the prior art, and also as being ambiguous and inaccurate. Five claims were allowed.

The rejected claim reads as follows:

20. A method of forming an expanded sheet comprising the steps of making a plurality of rows of spaced slits therein, slits in each row being staggered with respect to slits in adjacent rows; and locally compressing the material at the ends of each slit wherein said compressed areas are in alignment with respective slits and spaced from adjacent slits, to angularly diverge the sides of said slits at each end thereby, whereby substantially diamond-shaped openings are effected.

The cited prior art is: Doran, 964,624, July 19, 1910; Connell, 1,733,778, October 29, 1929; Dougherty et al., 1,759,481, May 20, 1930; Cumfer, 1,777,076, September 30, 1930; Balfe, 2,011,563, August 20, 1935.

In describing his invention, appellant states

The invention is in a method of expanding sheet material by slitting the sheet in such a manner that the slits appear in rows, the slits in each row being in alignment, and being staggered with respect to the slits in adjacent rows. • • • There are intermittent areas of unslitted material joining the ends of aligned slits, which areas are bounded by the slits of the adjoining rows. The appellant's method of expanding the sheet is by compressing these intermittent areas.

A slitted sheet per se, • • • is generally conventional and may be expanded by various stretching and pulling methods and means heretofore known in the art. The appellant's method of forming the expanded sheet is novel and based on the discovery that if pressure be applied in the area at the ends of the aligned slits, • • • the sides of the slits diverge bodily, • • • and the sheet is thus expanded.

Various modifications of the basic concept of merely compressing the localized areas such as by providing hollow or solid blister formations in these areas • • • are described in the application. The claims allowed by the Examiner and by the Board of Appeals are all limited to the use of some type of blister or formation in the area to be compressed. • • •

Appellant adds that "Claim 20 is not thus limited to the use of raised formations but covers the basic concept for the method of forming an expanded sheet by merely applying localized pressure at the ends of the slits • • •"

Appellant further states that his invention is not restricted by its terms to sheet metal but can also be applied to sheets of other compositions, including fibrous material.

The patent to Dougherty et al., on which the Board seems to have relied principally in affirming the decision of the Examiner, relates to a method of making an expanded sheet by providing a blank with raised formations, slitting the blank in aligned, parallel, staggered rows, and compressing the raised formations to expand the sheets.

The patent to Cumfer teaches a method of making an expanded fibrous sheet by providing a plurality of spaced slits and then compressing the blank locally at the ends of the slits in order to expand the sheet.

The Examiner held that claim 20 differed from the method as taught by Dougherty et al. only in two functional recitations of results; viz, "wherein the compressed areas are spaced from adjacent slits" and "whereby substantially diamond-shaped openings are effected," and observed further that in the absence of a positive recitation of a patentably novel method step or steps, mere functional statements of result can not be relied upon to predicate patentability. He also observed that no invention was involved by eliminating compression of the sheet at the points between the ends of the adjacent slits of Dougherty et al. because Cumfer taught that step to be old, and also because such a substitution would not affect the result of the Dougherty et al. method. It was also his view that because the elongated compressed areas of Dougherty et al. served the same function as that provided by the compressed areas recited in the instant claim, the compression as taught by Dougherty et al. was fully equivalent to that recited in the involved claim.

Vol. 678 • No. 1 Tuesday, January 5, 1954 Price $30.00 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should b made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $30.00 per annum, foreign mailing $8.50 additional; single numbers, 75 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

The TRADE-MARK SUPPLEMENT to the OFFICIAL GAZETTE, issued weekly, subscription price, $19.00 per annum; single copies, 45 cents each. DECISION LEAFLETS, subscription price, $3.75 per year; single copies, 10 cents each.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

In affirming the decision of the Examiner, the Board stated

We are constrained to agree with the Primary Examiner that the positive steps, recited in the claim, are taught by Dougherty et al. With respect to the steps, that the material is compressed at the ends of the slits the method, as recited, does not preclude compressing the material at locations other than at the ends of the slits. Furthermore, we are of the opinion, that even if the method recited in the claim was limited to compressing the material *only* at the *ends* of the slits, it would not patentably differentiate over the procedure disclosed by Dougherty et al., in view of the fact that they appear to obtain substantially the same results as appellant obtains by his method. We are not impressed with appellant's inference that the Dougherty et al. patent is directed to nonanalogous art. Both Dougherty et al. and appellant disclose using their methods in the metal working art. However, even if appellant's inference was correct, we still could not ignore the Dougherty et al. disclosure in view of the rule by the Court in *In re O'Connor*, 34 CCPA 1055; 73 USPQ 433 that:

"there is no invention in method claimed in one art if it were within exercise of skill of worker in that art to make use of method in nonanalogous art."

as we are of the opinion that any skilled artisan could apply the Dougherty et al. method to sheet material, such as appellant uses. The rejection will be sustained.

Claim 20 stands further rejected as being ambiguous and inaccurate. * * * [Italics quoted.]

While we cannot say we are in complete agreement with the view of the Board that the method as recited in the claim does not preclude compressing the metal at locations other than at the ends of the slits, we are in agreement with its conclusion that even if the method recited in the claim were actually limited to compressing the metal only at the ends thereof, it would not patentably differentiate over the procedure of Dougherty et al. because both methods obtain substantially the same results. Furthermore, the Cumfer reference shows that it is old to compress the blank to be expanded by pressure at the ends of the slits.

We are likewise in accord with the Board that the invention involved in Dougherty et al. is not in such a remote or nonanalogous field as to properly preclude its use as a reference. It seems clear that both Dougherty et al. and appellant use their methods in the metal working art, and appellant's reference to fibrous material is likewise met by the Cumfer patent.

During the oral argument before us, we were impressed with the contentions advanced by appellant that claim 20 involved invention. However, a careful examination of the two principal references convinces us that the disclosures in those references are such that the claim cannot properly be held to involve exercise of the inventive faculty. For example, one of the claims in the Dougherty et al. patent, which appears to give broad patent protection, reads as follows:

27. A process for producing open-work in metals including the steps of providing a plurality of scored, weakened places in a blank, mechanically working the metal between weakened places to reduce the thickness of the metal to different degrees transversely of the direction of lengthening, thereby to elongate the metal between the weakened places to different degrees and thus develop the weakened places into openings.

That claim may be compared with the involved claim and in its breadth be seen to include the limitations of appellant's claim 20.

Dougherty et al. relate their invention "to the production of open-work in metal by providing slits or other restricted openings in the metal and then so mechanically working the metal between the slits as to open up or develop the openings." The patent also teaches the application of "compression forces directly to the metal of the slitted portions to develop the openings" and to "obtain the well known ameliorating effects of mechanical working." The patent defines the term "mechanical working" as "rolling, forging, pressing, or any equivalent kneading-like manipulation to reduce and lengthen the metal." They also state that their invention "consists of providing slits, openings, scorings, or weakened places in a portion of a metal blank and then so mechanically working the blank or parts thereof, including at least a substantial fraction of the portion containing the openings, as to elongate the metal of said portion to different degrees whereby the open-work is developed."

While the Patent Office concedes that, as asserted by appellant, Dougherty et al. *may* include in their more specific aspects the rolling while hot of a slitted blank to develop the open-work steel structure and that the several blanks shown by Dougherty et al. may vary "in thickness of cross section in a plane parallel to the axes of the rollers," those are not essential features of that invention. Dougherty et al. specifically state that the obtaining of "different degrees of elongation of the metal between the slits in a body, for the purpose of opening them up, * * * is not dependent upon such metal being of different thicknesses," and also disclose that rolling is but a preferred mode of mechanical reduction, and that even when rolling is employed, several passes are not required.

Likewise, it also seems to us that the first claim of the Cumfer reference is quite pertinent.

1. A process which comprises acting on a sheet of flexible fibrous material to produce spaced slits therein, and applying sufficient pressure to said slitted sheet immediately adjacent said slits to expand and lengthen the sheet and produce apertures therein bounded by the opposed edges defining the slits.

Cumfer emphasizes that "the invention broadly contemplates acting upon a sheet to produce spaced slits or incisions therein, and thereafter applying sufficient mechanical pressure immediately adjacent the slits to expand and lengthen the sheet and form slots or apertures bounded by the edges defining the slits."

It seems to us that what is done in that patent brings about substantially the same result as is claimed here and that the method of the patent is broad enough to include the compressing of material at the ends of each slit, as set out in the claim. That conclusion is supported by the statement in appellant's brief that "The material at the ends of the slits [in Cumfer] is compressed whereby the slits expand * * *"

The allowance of five claims by the Patent Office is ample evidence that invention lay therein, but it is our belief that the rejection of claim 20 on the references cited was proper. In view of that conclusion, it is not necessary to discuss the second ground of rejection.

The decision of the Board is affirmed.

AFFIRMED.

JACKSON, *J.*, retired, recalled to sit and participate herein in place of GARRETT, *Chief Judge*.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Accurate Leather & Novelty Co., Chicago, Ill. Billfolds. Serial Nos. 649,216–17, Jan. 5. Class 3.

Aircall, Inc., New York, N. Y., assignee of Telanserphone Incorporated. Radiopaging. Serial No. 630,228, Jan. 5. Class 104.

Airex Corporation, New York, N. Y. Fishing and spinning reels, fishing and spinning rods, etc. Serial No. 646,716, Jan. 5. Class 22.

Aktiebolaget Atvidaberg-Facit, Stockholm, Sweden. Calculating machines, adding machines and multiplying machines, etc. Serial No. 638,888, Jan. 5. Class 26.

Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Electrical alloy steel. Serial No. 636,163, Jan. 5. Class 14.

American Character Doll Co., New York, N. Y. Dolls. Serial No. 645,368, Jan. 5. Class 22.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial No. 628,902, Jan. 5. Class 44.

American Distilling Company, The, Pekin, Ill., and Sausalito, Calif. Brandy. Serial No. 648,522, Jan. 5. Class 49.

American Merri Lei Corporation, Brooklyn, N. Y. Novelty party favors. Serial No. 645,280, Jan. 5. Class 22.

Anderson County Distilling Company, Cincinnati, Ohio. Whiskey. Serial No. 646,102, Jan. 5. Class 49.

Armstrong Cork Company, Lancaster, Pa. Linoleum. Serial No. 648,074, Jan. 5. Class 20.

Associated Merchandising Corporation, The, New York, N. Y. Women's handbags. Serial No. 646,044, Jan. 5. Class 3.

Aurora Plastics Corporation, Brooklyn, N. Y. Toy water pistol models. Serial No. 647,125, Jan. 5. Class 22.

Bachmann Uxbridge Worsted Corporation, New York, N. Y. Textile fabrics. Serial No. 641,426, Jan. 5. Class 42.

Bauer Alphabets, Inc., New York, N. Y. Printing type. Serial No. 650,968, Jan. 5. Class 14.

Baxter, Don, Inc., Glendale, Calif. Container dispensers for parenteral fluids. Serial No. 620,566, Jan. 5. Class 44.

Baxter Laboratories, Inc., Morton Grove, Ill. Closure-equipped bottles for use in the transfusion of blood, etc., and for container dispensers for parenteral fluids. Serial No. 620,578, Jan. 5. Class 44.

Bay-Lang Company, Sioux Falls, S. Dak. Power operated hand lift trucks. Serial No. 632,500, Jan. 5. Class 23.

Becht, Robert, Co., The, Cincinnati, Ohio. Conveyor belts and frames. Serial No. 604,897, Jan. 5. Class 23.

Behr-Manning Corporation, Troy, N. Y. Pre-cut sections or panels of cardboard. Serial No. 598,633, Jan. 5. Class 37.

Belford Company, Inc., New York, N. Y. Cloth bound display mounts. Serial No. 625,516, Jan. 5. Class 37.

Belrug Mills of South Carolina, Greenville, S. C. Loom woven cut pile cotton rugs. Serial No. 647,337, Jan. 5. Class 42.

Benner-Nawman, Inc., Oakland, Calif. Metal carrier trays. Serial No. 619,984, Jan. 5. Class 13.

Berben Corporation, New York, N. Y. Pistols, shotguns and parts thereof. Serial No. 650,572, Jan. 5. Class 9.

Bergen Point Iron Works, Bayonne, N. J. Structural units of ferrous metal, etc. Serial No. 574,565, Jan. 5. Class 12.

Bleyer, Alfred, & Co., Inc., Brooklyn, N. Y. Paper plates and plastic coated paper plates. Serial No. 556,764, Jan. 5. Class 2.

Bourne Manufacturing Company, Detroit, Mich. Exterior and interior building doors. Serial No. 638,517, Jan. 5. Class 12.

Bowers Lighter Company, Kalamazoo, Mich. Pyrophoric pocket lighters. Serial No. 630,309, Jan. 5. Class 8.

Bradfield, Joseph L., Indianapolis, Ind. Header saddle fittings. Serial No. 643,814, Jan. 5. Class 13.

Bradford Chemical Company, Inc.: *See*—
True-Health Chemical Products Corporation.

Brea Products Co.: *See*—
Brea, Romulo A.

Brea, Romulo A., doing business as Brea Products Co., New York, N. Y. Razor blades. Serial No. 649,062, Jan. 5. Class 23.

Briscoe Manufacturing Company, Columbus, Ohio. Electrically heated flexible tape and jacket-type heaters. Serial No. 649,567, Jan. 5. Class 21.

Bulova Watch Company, Inc., New York, N. Y. Watches. Serial No. 649,568, Jan. 5. Class 27.

Burndy Engineering Company, Inc., New York, N. Y. Electrical spark plug connectors. Serial No. 607,157, Jan. 5. Class 21.

Bymart-Tintair, Inc., Dover, Del., and New York, N. Y. Hair coloring applicator brushes. Serial No. 647,572, Jan. 5. Class 29.

C & D Manufacturing Company, Perkins, Calif. Machine for digging, elevating, and loading earth. Serial No. 633,486, Jan. 5. Class 23.

Carlee Corporation, The, Teaneck, N. J. Padded plastic piece goods or film. Serial No. 642,869, Jan. 5. Class 42.

Carpenter Steel Company, The, Reading, Pa. Steel. Serial No. 618,685, Jan. 5. Class 14.

Cat Cay Realty Company, Limited, The, Nassau, Island of New Providence, Bahama Islands. Toy stuffed representation of animals and dolls, fishing devices, etc. Serial No. 639,805, Jan. 5. Class 22.

Charlotte Refining Company, Charlotte, N. C. Peanut salad and cooking oil. Serial No. 645,108, Jan. 5. Class 46.

Childhood Interests, Inc., Roselle Park, N. J. Toy trains. Serial No. 640,843, Jan. 5. Class 22.

Childhood Interests, Inc., Roselle Park, N. J. Toy xylophones. Serial No. 640,846, Jan. 5. Class 22.

Cianciulli, Vito A., Norristown, Pa. Oil burners, steam boilers, and hot water boilers. Serial No. 568,832, Jan. 5. Class 34.

Cincinnati Tool Company, The, Norwood, Ohio. C clamps. Serial No. 640,148, Jan. 5. Class 23.

Coler, Myron A., doing business as Markite Company, New York, N. Y. Materials made wholly or in part from electrically conductive plastics. Serial No. 624,814, Jan. 5. Class 1.

Consolidated Stamp Manufacturing Co., Inc., Spring Valley, N. Y. Rubber stamps, line daters, and numbers, etc. Serial No. 559,213, Jan. 5. Class 23.

Container Corporation of America, Chicago, Ill. Machine for gluing partially folded paperboard container blanks. Serial No. 641,127, Jan. 5. Class 23.

Corporacion Argentina de Productores de Carnes, New York, N. Y. Canned corned beef, canned roast beef and corned brisket of beef. Serial No. 615,005, Jan. 5. Class 46.

Crossly Window Corp., Miami, Fla. Windows and doors. Serial No. 649,066, Jan. 5. Class 12.

Crown Fabrics Corporation, New York, N. Y. Textile fabrics. Serial No. 645,466, Jan. 5. Class 42.

Daron Underwear Corp., New York, N. Y. Men's, women's, and children's polo shirts, T-shirts, hosiery, etc. Serial No. 639,922, Jan. 5. Class 39.

Dayton Pump & Manufacturing Company, The, Dayton, Ohio. Water pumps and water pump systems. Serial No. 646,368, Jan. 5. Class 23.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. Serial No. 649,134, Jan. 5. Class 42.

Del-Krome Corp., Walton, N. Y. Automobile window ventilators. Serial No. 626,731, Jan. 5. Class 19.

Delson Candy Company, New York, N. Y. Candies. Serial No. 636,694, Jan. 5. Class 46.

Dennis-Mitchell Industries, Philadelphia, Pa. Automobile baby seats and hammocks. Serial No. 645,873, Jan. 5. Class 19.

De-Oxo-Lin Chemical Products: *See*—
Hodnefield, Olaus T.

Design Fabricators, Inc., Chicago, Ill. Chairs. Serial No. 619,745, Jan. 5. Class 32.

Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette tables and chairs. Serial No. 648,009, Jan. 5. Class 32.

Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette tables and chairs. Serial No. 648,090, Jan. 5. Class 32.

Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette tables and chairs. Serial No. 648,160, Jan. 5. Class 32.

Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette tables and chairs. Serial Nos. 648,376–7, Jan. 5. Class 32.

Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette tables and chairs. Serial Nos. 648,593–4, Jan. 5. Class 32.

Dreamland Doll Inc., New York, N. Y. Dolls, rattles, toy boxing-gloves, etc. Serial No. 649,931, Jan. 5. Class 22.

Dutch-American Raw Materials Corporation, New York, N. Y. Textile fabrics. Serial No. 637,763, Jan. 5. Class 42.

Edmont Manufacturing Company, Coshocton, Ohio. Utility gloves. Serial No. 639,620, Jan. 5. Class 39.

Edo Corporation, College Point, N. Y. Seaplane floats. Serial No. 654,110, Jan. 5. Class 19.

Eichler, Edwin H., Dundee, Ill. General food service trays. Serial No. 583,150, Jan. 5. Class 2.

Electronic Engineering Co.: *See*—
Solsound Industries, Inc.

Enthone, Inc., New Haven, Conn. Organic coating materials. Serial No. 639,321, Jan. 5. Class 16.

Erwin Mills, Inc., Durham, N. C. Denim fabrics. Serial No. 649,225, Jan. 5. Class 42.

Erwin Mills, Inc., Durham, N. C. Piece goods. Serial No 649,226, Jan. 5. Class 42.

Eutectic Welding Alloys Corporation, Flushing, N. Y. Steel welding electrode. Serial No. 650,495, Jan. 5. Class 14.

Fairmont Aluminum Company, Fairmont, W. Va. Aluminum sheets, coils and circles. Serial No. 650,433, Jan. 5. Class 14.

Fair Tex Mills, Inc., Catasauqua, Pa., and New York, N. Y. Knitted textile fabrics. Serial No. 634,195, Jan. 5. Class 42.

Fazit Gesellschaft für Transporttechnik M. b. H., Solingen-Ohligs, Germany. Boxes, cases, barrels, etc. Serial No. 635,222, Jan. 5. Class 2.

Feaver, John H., Paper Company, The, Bala-Cynwyd, Pa. Flexible corrugated wrapping paper. Serial No. 649,355, Jan. 5. Class 37.

Ferro Chemical Corporation, Bedford, Ohio. Paint and varnish driers. Serial No. 640,115, Jan. 5. Class 16.

Fichtel & Sachs Aktiengesellschaft, Schweinfurt am Main (West), Germany. Machinery gears, sprocket wheels, chains, etc. Serial No. 624,717, Jan. 5. Class 23.

Flato, Paul, Sales Corporation, New York, N. Y. Jewelry. Serial No. 649,576, Jan. 5. Class 28.

Florasynth Laboratories, Incorporated, New York, N. Y., Chicago, Ill., Dallas, Tex., Detroit, Mich., Los Angeles, Calif., etc. Essential oils. Serial No. 632,721, Jan. 5. Class 6.

Frangos, William A., Inc., Jamaica, N. Y. Coating lacquers, etching formulas, and develop solutions. Serial No. 637,045, Jan. 5. Class 6.

Friedman Bros., Brooklyn, N. Y. Pocket wallets and billfolds. Serial No. 649,229, Jan. 5. Class 3.

Fritz & Larue Company, The, New York, N. Y. Woven and/or knotted rugs and carpets. Serial No. 648,990, Jan. 5. Class 42.

Fuld Bros., New York, N. Y. Blankets. Serial No. 641,549, Jan. 5. Class 42.

Gamble-Skogmo, Inc., Minneapolis, Minn. Tool boxes. Serial No. 591,476, Jan. 5. Class 2.

Gates Rubber Company, The, Denver, Colo. High speed belts. Serial No. 644,977, Jan. 5. Class 35.

General American Transportation Corporation, Chicago, Ill. Chemically depositing a nickel coating on parts such as machine parts, etc. Serial No. 648,748, Jan. 5. Class 106.

General Electric Company, Schenectady, N. Y. Exposure meters. Serial No. 648,660, Jan. 5. Class 26.

General Tire & Rubber Company, The, Akron, Ohio. Flexible trimming and beading of polymeric material. Serial No. 634,897, Jan. 5. Class 40.

General Tire & Rubber Company, The, Akron, Ohio. Cushions and mattresses. Serial No. 648,389, Jan. 5. Class 32.

General Tire & Rubber Company, The, Akron, Ohio. Rubber. Serial No. 648,667, Jan. 5. Class 1.

Gerson, Samuel L., Wilmington, Del. Cutlery. Serial No. 635,763, Jan. 5. Class 23.

Gilfillan Bros. Incorporated, Los Angeles, Calif. Electronic apparatus for ground control approach systems, etc. Serial No. 629,431, Jan. 5. Class 26.

Gillette Company, The, Boston, Mass. Safety razor blades. Serial No. 640,452, Jan. 5. Class 23.

Glacier-Ice Corporation, Los Angeles and Santa Monica, Calif. Coolers for lowering the temperature of air within the passenger compartments of automobiles. Serial No. 651,238, Jan. 5. Class 19.

Gleamit Company, Roslyn Heights, N. Y. Chemically treated polishing gloves. Serial No. 617,753, Jan. 5. Class 29.

Goodall-Sanford, Inc., Sanford, Maine. Piece goods. Serial No. 648,244, Jan. 5. Class 42.

Goodman, Nathan, New York, N. Y. Watches, clocks and parts thereof, etc. Serial No. 649,146, Jan. 5. Class 27.

Graver Tank & Mfg. Co., Inc., East Chicago, Ind. Liquid clarifiers. Serial No. 631,101, Jan. 5. Class 23.

Great Neck Saw Manufacturers, Inc., Mineola, N. Y. Screw drivers. Serial No. 649,302, Jan. 5. Class 23.

Gummed Products Company, The, Troy, Ohio. Reinforced gummed tape. Serial No. 646,549, Jan. 5. Class 5.

Gustin-Kramer Company, Boston, Mass. Pads for dry cleaning presses, pressing machines, etc. Serial No. 634,408, Jan. 5. Class 24.

Haslett Chute and Conveyor Company, Oaks, Pa. Material handling skate wheel conveyors. Serial No. 638,647, Jan. 5. Class 23.

Henderson and Johnson, Inc., Gloucester, Mass. Antifouling paints. Serial No. 600,050, Jan. 5. Class 16.

Hodnefield, Olaus T., doing business as De-Oxo-Lin Chemical Products, Los Angeles, Calif. Chemical coating preparation. Serial No. 636,480, Jan. 5. Class 16.

Hopkins, John, & Co. Limited, Glasgow, Scotland. Scotch whisky. Serial No. 650,104, Jan. 5. Class 49.

Hortex Manufacturing Co., Inc., El Paso, Tex. Boys' jackets. Serial No. 642,552, Jan. 5. Class 39.

Hough, Frank G., Co., The, Libertyville, Ill. Industrial tractors and power operated material handling appliances. Serial Nos. 645,310–11, Jan. 5. Class 23.

International Parts Corporation, assignee: *See*—
Marx, Joseph P.

International Stamping Company: *See*—
Marx, Joseph P.

Jenkins Music Company, Kansas City, Mo. Pianos. Serial No. 649,156, Jan. 5. Class 36.

Jet Sales Company, Seattle, Wash. Radio receiving sets. Serial No. 649,308, Jan. 5. Class 21.

Johnson, Myron A. C., Coral Gables, Fla. Spinning toys. Serial No. 602,954, Jan. 5. Class 22.

Johnstone Engineering & Machine Co., Parkesburg, Pa. Machines for slitting and roll-winding materials. Serial No. 631,872, Jan. 5. Class 23.

Kalart Company Inc., The, Plainville, Conn. Eyetubes containing a magnifying lens. Serial No. 620,344, Jan. 5. Class 26.

Kay Manufacturing Corporation, Brooklyn, N. Y. Inner spring units. Serial No. 648,310, Jan. 5. Class 32.

Kay Manufacturing Corporation, Brooklyn, N. Y. Inner springs and inner spring units. Serial No. 648,320, Jan. 5. Class 32.

Kelleher Company, The, Detroit, Mich. Jalousies, jalousie windows and doors and parts thereof and therefor. Serial No. 644,764, Jan. 5. Class 12.

Kelly, Arthur W., New York, N. Y. Toy imitation leather holsters, toy imitation leather cuffs, etc. Serial No. 628,358, Jan. 5. Class 22.

Kel-Ros Products: *See*—
Snow Cap Mushrooms, Inc.

Kidder Press Company, Inc., Dover, N. H. Printing presses. Serial No. 649,751, Jan. 5. Class 23.

Kirk, Bill, Mfg. Co. of Amarillo: *See*—
Kirk Manufacturing Co.

Kirk Manufacturing Co., doing business under the name Bill Kirk Mfg. Co. of Amarillo, Amarillo, Tex. Automatic stationary, mechanical livestock oiler, etc. Serial No. 639,333, Jan. 5. Class 23.

Kirkman Engineering Corporation, New York, N. Y. Fuses. Serial No. 649,426, Jan. 5. Class 21.

Kold-Hold Manufacturing Company, Lansing, Mich. Heat transfer units. Serial No. 620,890, Jan. 5. Class 34.

Kopf Mfg. Co., Inc., New York, N. Y. Rubber bell boots. Serial No. 649,514, Jan. 5. Class 3.

La Fara Imported Macaroni Company, also doing business as La Fara Macaroni Company, Philadelphia, Pa. Alimentary pastes. Serial No. 644,621, Jan. 5. Class 46.

La Fara Macaroni Company: *See*—
La Fara Imported Macaroni Company.

Laher Spring and Tire Corporation, Oakland, Calif. Automobile springs. Serial No. 650,903, Jan. 5. Class 19.

Lapp Insulator Company, Inc., Leroy, N. Y. Pipes, water coils, valves and fittings. Serial No. 649,521, Jan. 5. Class 13.

La Salle Steel Company, Hammond, Ind. Steel alloys. Serial No. 643,692, Jan. 5. Class 14.

La Salle Steel Company, Hammond, Ind. Lead containing steel alloys. Serial No. 644,421, Jan. 5. Class 14.

Lee, Floyd S., Inc. Ltd., Pasadena, Calif. Non-electrical portable barbecue grill. Serial Nos. 634,093–4, Jan. 5. Class 34.

Lehigh Spinning Company, Allentown, Pa. Viscose, viscose and acetate, and acetate yarns. Serial No. 649,094, Jan. 5. Class 43.

Lennartz & Co., Bulach, Zurich, Switzerland: Sectionalized circular saws. Serial No. 639,279, Jan. 5. Class 23.

Lever Brothers Company, New York, N. Y. Washing powders and detergents. Serial No. 651,516, Jan. 5. Class 52.

Lilnitone Company: *See*—
Welsh, Norman W.

Lindemann, A. J., & Hoverson Company, The, Milwaukee, Wis. Electric freezers and electric refrigerators. Serial No. 638,263, Jan. 5. Class 31.

Loxit Systems, Inc., Chicago, Ill. Metal angle stock; flat strips of metal, etc. Serial No. 632,382, Jan. 5. Class 14.

Luthy, F. A., Co., Jackson, Mich. Spark plugs. Serial No. 632,843, Jan. 5. Class 21.

"M" System, Inc., Vicksburg, Miss. House trailers. Serial No. 643,694, Jan. 5. Class 19.

Macri, Frank C., Brooklyn, N. Y. Accordions. Serial No. 648,679, Jan. 5. Class 36.

Magnex-Denver Co., The: *See*—
Wilm, Carl C.

Marathon Corporation, Menasha, Wis. Waxed paper. Serial No. 644,918, Jan. 5. Class 37.

Marathon Corporation, Menasha, Wis. Solid bleached paperboard. Serial No. 649,239, Jan. 5. Class 37.

Markite Company: *See*—
Coler, Myron A.

Martel, Edward J., doing business as Thermobond Company, Akron, Ohio. Lap siding, shingles, insulation type laminated metal foil, etc. Serial No. 648,871, Jan. 5. Class 12.

Marx, Joseph P., doing business as International Stamping Company, Hartford, Wis., assignor to International Parts Corporation, Chicago, Ill. Mufflers. Serial No. 577,894, Jan. 5. Class 23.

Master Builders Company, The, Cleveland, Ohio. Prepared wax for protecting and preserving concrete floors. Serial No. 645,579, Jan. 5. Class 16.

Metallizing Engineering Co. Inc., Long Island City, N. Y. Metal alloy wires or rods. Serial No. 640,004, Jan. 5. Class 14.

Michigan Dock and Manufacturing Company, assignee; *See*—
Michigan Dock Company.

Michigan Dock Company, assignor to Michigan Dock and Manufacturing Company, Battle Creek, Mich. Docks; dock accessories, and parts thereof. Serial No. 610,327, Jan. 5. Class 12.

Mickelson, S. M., Company, San Francisco, Calif. Finger rings and parts thereof. Serial No. 649,380, Jan. 5. Class 28.

Mimi Bags, Inc., New York, N. Y. Handbags. Serial No. 642,760, Jan. 5. Class 3.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Corrosion resistant plastic sheet material. Serial No. 637,663, Jan. 5. Class 12.

Mitchell, Dennis, Industries, Philadelphia, Pa. Clothes rack. Serial No. 640,197, Jan. 5. Class 32.

Modern Home Products Company, Chicago, Ill. Water-repellent spray, a cedar spray, a deodorizing spray, etc. Serial No. 641,072, Jan. 5. Class 6.

Monroe Calculating Machine Company, Orange, N. J. Calculating machines. Serial No. 648,616, Jan. 5. Class 26.

Morris, Charles, Phoenix, Ariz. Information and entertainment service. Serial No. 623,844, Jan. 5. Class 107.

Morse Sewing Machine and Supply Corp., New York, N. Y. Sewing machines. Serial Nos. 649,172–3, Jan. 5. Class 23.

Mosler Safe Company, The, New York, N. Y., and Hamilton, Ohio. Safes and safety cabinets. Serial No. 637,070, Jan. 5. Class 25.

Nelson Company, The, Iron Mountain, Mich. Solvents for use in protective and decorative coatings, paint, varnish, etc. Serial No. 632,993, Jan. 5. Class 16.

Nuodex Products Co., Inc., Elizabeth, N. J. Driers for ready mixed paints, enamels, varnishes, and coatings etc. Serial No. 637,205 Jan. 5. Class 16.

Ohio-Kentucky Manufacturing Co., Ada, Ohio. Footballs, basketballs, volley balls, etc. Serial No. 654,343, Jan. 5. Class 22.

Ohio-Kentucky Manufacturing Co., Ada, Ohio. Baseball gloves. Serial No. 654,344, Jan. 5. Class 22.

Optische Werke C. A. Steinheil Sohne G. m. b. H., Munich, Germany. Photographic objectives. Serial No. 637,143, Jan. 5. Class 26.

Parfums Charbert, Incorporated, Newark, N. J. Cosmetics and beauty preparations. Serial No. 642,834, Jan. 5. Class 51.

Pesta Foods, Inc., Cleveland, Ohio. Home style dill pickles, home style kosher pony pickles, etc. Serial No. 633,071, Jan. 5. Class 46.

Phi Kappa Tau Fraternity, The, Oxford, Ohio. Finger rings, pendants, bracelets, etc. Serial No. 598,677, Jan. 5. Class 28.

Phoenix Nahmaschinen A. G., Baer & Rempel, Bielefeld, Germany. Sewing machines and sewing machine parts. Serial No. 622,051, Jan. 5. Class 23.

Pioneer Auto Leasing System, Chicago, Ill. Leasing automobiles. Serial No. 638,372, Jan. 5. Class 105.

Plastic Engineering, Inc., Cleveland, Ohio. Plastic wall tile. Serial No. 648,946, Jan. 5. Class 12.

Play-Rite Products Co., Philadelphia, Pa. Outdoor gym sets, ladders for outdoor gym sets, etc. Serial No. 645,184, Jan. 5. Class 22.

Polychrome Corporation, Yonkers, N. Y. Stencils and fluid for use in correcting stencils. Serial No. 584,252, Jan. 5. Class 37.

Pootatuck Corporation, The, Stratford, Conn. Cutter. Serial No. 648,427, Jan. 5. Class 23.

Pure Oil Company, The, Chicago, Ill. Hydraulic brake fluid, lighter fluid, radiator rust preventive, etc. Serial No. 604,224, Jan. 5. Class 6.

Pure Oil Company, The, Chicago, Ill. Light oils, lubricating oils, miscellaneous industrial oils, etc. Serial No. 625,818, Jan. 5. Class 15.

Rauland-Borg Corporation, Chicago, Ill. Remote control pre-amplifiers. Serial No. 649,184, Jan. 5. Class 21.

Rayco Mfg. Co., Paterson, N. J. Convertible automobile tops. Serial No. 654,424, Jan. 5. Class 19.

Refractory Specialties Company, Philadelphia, Pa. Dry and wet air-setting refractory mortars and castable refractory materials. Serial No. 649,442, Jan. 4. Class 12.

Regency Textiles, Inc., New York, N. Y. Silk piece goods. Serial No. 649,612, Jan. 5. Class 42.

Regent Sports Company, New York, N. Y. Shuttlecock. Serial No. 645,669, Jan. 5. Class 22.

Reliance Manufacturing Company, Chicago, Ill. Jackets and trousers. Serial No. 645,593, Jan. 5. Class 39.

Roberts Co., The, Los Angeles, Calif. Carpet knives. Serial No. 627,703, Jan. 5. Class 23.

Rocket Coal Company, Barbourville, Ky. Bituminous coal. Serial No. 642,772, Jan. 5. Class 1.

Ross, Abe D., Havertown, Pa. Cementitious material. Serial No. 634,608, Jan. 5. Class 12.

Rountree-Presbrey, Inc., New York, N. Y. Headrests. Serial No. 646,430, Jan. 5. Class 32.

Saba, Schwarzwalder Apparate-Bau-Anstalt, August Schwer Sohne, G. m. b. H., Villengen, Schwarzwald, Germany. Refrigerators. Serial No. 640,881, Jan. 5. Class 31.

Sales Affiliates, Inc., New York, N. Y. Hair waving lotion. Serial No. 623,260, Jan. 5. Class 51.

Scherl & Roth, Inc., Cleveland, Ohio. Rosin, pegs, tailpieces, mutes, etc., for use on string instruments, etc. Serial No. 649,443, Jan. 5. Class 36.

Schultz, Mike, & Son, El Centro, Calif. Fresh vegetables. Serial No. 639,487, Jan. 5. Class 46.

Schwartz Manufacturing Company, Two Rivers, Wis. Storage cases. Serial No. 616,134, Jan. 5. Class 2.

Scully Signal Company, Cambridge, Mass. Article of manufacture consisting of a threaded fitting. Serial No. 649,907, Jan. 5. Class 13.

Seck-DeVault Paint Mfg. Corp., Springfield, Ill. Ready mixed paint. Serial No. 623,988, Jan. 5. Class 16.

Sherwin-Williams Company, The, Cleveland, Ohio. Enamel type coating. Serial No. 650,650, Jan. 5. Class 16.

Shuron Optical Company, Inc., Geneva, N. Y. Ophthalmic mountings and parts thereof. Serial Nos. 641,340–2, Jan. 5. Class 26.

Simplex Company, The, Springfield, Ill. Automatic voltage regulators. Serial No. 635,723, Jan. 5. Class 21.

Snow Cap Mushrooms, Inc., doing business as Kel-Ros Products, Woburn, Mass. Compost. Serial No. 651,075, Jan. 5. Class 10.

Solsound Industries, Inc., doing business as Electronic Engineering Co., Akron, Ohio. Local, voice-intercommunication system. Serial No. 603,314, Jan. 5. Class 21.

Spir-It, Inc., Malden, Mass. Stirrers, muddlers, spoons, etc. Serial No. 648,968, Jan. 5. Class 23.

Stagno, Stephan J., Chicago, Ill. Game boards. Serial No. 627,607, Jan. 5. Class 22.

St. Louis Paint Manufacturing Company, St. Louis, Mo. Flat oil paint, a transparent liquid coating, etc. Serial No. 645,921, Jan. 5. Class 16.

Standard Aluminum Window Corp.: *See*—
Standard Aluminum Window Corporation.

Standard Aluminum Window Corporation, also doing business as Standard Aluminum Window Corp., Minneapolis, Minn. Combination storm and screen windows. Serial No. 650,330, Jan. 5. Class 12.

Steel Products Engineering Company, The, Springfield, Ohio. Air atomizing nozzle assemblies. Serial No. 619,856, Jan. 5. Class 34.

Steiner-Lobman Dry Goods Company, Montgomery, Ala. Dungarees, work pants, and overalls. Serial No. 642,910, Jan. 5. Class 39.

Stephen Furniture Co. Inc., New York and Long Island City, N. Y. Sofas, couches, loveseats, etc. Serial No. 628,067, Jan. 5. Class 32.

Sturmey-Archer Gears Limited, Nottingham, England. Variable speed gears. Serial No. 549,985, Jan. 5. Class 23.

Syntron Company, Homer City, Pa. Batch weighing machines, test sieve shakers, volumetric and gravimetric feeders. Serial No. 595,477, Jan. 5. Class 26.

Technical Oil Tool Corporation, Los Angeles, Calif. Wound clips, wound clip appliers, and wound clip removers. Serial No. 650,551, Jan. 5. Class 44.

Telanserphone Incorporated: *See*—
Aircall, Inc.

Telecast Films Inc., New York, N. Y. Series of motion picture film photoplays. Serial No. 646,333, Jan. 5. Class 26.

Thermobond Company: *See*—
Martel, Edward J.

Thompson-Hayward Chemical Company, Kansas City, Mo. Herbicides, insecticides, fungicides, etc. Serial No. 646,694, Jan. 5. Class 6.

Tilbest Foods, Inc., Milwaukee, Wis. Prepared food mix. Serial No. 627,546, Jan. 5. Class 46.

True-Health Chemical Products Corporation, now by change of name Bradford Chemical Company, Inc., Bradford, Pa. Enzyme inhibitor. Serial No. 607,102, Jan. 5. Class 6.

Union Asbestos & Rubber Company, Chicago, Ill. Heating radiators. Serial No. 648,444, Jan. 5. Class 34.

Union Steam Pump Company, Battle Creek, Mich. Centrifugal pumps. Serial No. 624,509, Jan. 5. Class 23.

United Biscuit Company of America, Chicago, Ill. Crackers. Serial No. 633,186, Jan. 5. Class 46.

United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. Serial No. 649,620, Jan. 5. Class 42.

United States Rubber Company, New York, N. Y. Hose. Serial No. 650,659, Jan. 5. Class 35.

United States Rubber Company, New York, N. Y. Plastic hose. Serial No. 650,754, Jan. 5. Class 35.

United States Safety Service Co., Kansas City, Mo. Non-vision corrective face shields and goggles. Serial No. 629,591, Jan. 5. Class 26.

Upressit Metal Cap Corporation, Wilmington, Del. Closures for tin and glass containers. Serial No. 623,624, Jan. 5. Class 50.

Valette, J. L. J., et Cie, Paris, France. Prism binoculars; opera, field, and marine glasses; and reading glasses. Serial No. 613,008, Jan. 5. Class 26.

Valley Paper Company, Holyoke, Mass. Writing, typewriting, and printing paper. Serial No. 527,804, Jan. 5. Class 37.

Vox Productions, Inc., New York, N. Y. Grooved phonograph records. Serial No. 649,452, Jan. 5. Class 36.

Wallace & Tiernan Co. Inc., Belleville, N. J., now by merger and change of name Wallace & Tiernan Company, Inc. Apparatus in the nature of a device for measuring the force required to accelerate a fluent material. Serial No. 632,338, Jan. 5. Class 26.

Wallace & Tiernan Company, Inc.: *See*—
Wallace & Tiernan Co. Inc.

Wallace, R., & Sons Manufacturing Company, Wallingford, Conn. Sterling silver flatware. Serial No. 649,336, published Jan. 5. Class 28.
Welsh, Norman W., doing business under the name and style of Limitone Company, Pittsburgh, Pa. Piano silencers. Serial No. 649,042, Jan. 5. Class 36.
Whitin, Paul, Manufacturing Company, Northbridge, Mass. Textile fabrics. Serial No. 648,890, Jan. 5. Class 42.
Wilm, Carl C., trading as The Magnex-Denver Co., Denver, Colo. Measuring devices. Serial No. 633,473, Jan. 5. Class 26.
Wright & McGill Co., Denver, Colo. Fishing rods. Serial No. 624,458, Jan. 5. Class 22.
Yarnall-Waring Company, Philadelphia, Pa. Piping expansion joints. Serial No. 649,748, Jan. 5. Class 13.
Zylstra, Fred, Opportunity, Wash. Metal hollow ware. Serial No. 635,078, Jan. 5. Class 13.

LIST OF REGISTRANTS OF TRADE-MARKS

Abel Corporation, The, Columbus, Ohio. Woolen robes. 584,417, Jan. 5; Serial No. 584,740. Class 42.
Addison-Proctor Company: *See*—
Wigler, Albert I.
Aldens, Inc., Chicago, Ill. Bed sheeting, upholstery fabrics, bed sheets, etc. 584,387, Jan. 5; Serial No. 645,687, published Oct. 6, 1953. Class 42.
Allied Chemical & Dye Corporation, New York, N. Y. Nitrogen-containing solution, suitable for use as fertilizer. 584,307, Jan. 5; Serial No. 635,991, published Oct. 13, 1953. Class 10.
Allied Laboratories, Inc., Kansas City, Mo. Antibiotic preparation. 584,389, Jan. 5; Serial No. 645,765, published Oct. 20, 1953. Class 18.
Amer, William, Company, Philadelphia, Pa. Leather. 584,349, Jan. 5; Serial No. 642,796, published Sept. 22, 1953. Class 1.
American Hard Rubber Company, Hempstead and New York, to American Hard Rubber Company, New York, N. Y. Hard rubber combs. 311,163, renewed Mar. 13, 1954. O. G. Jan. 5. Class 40.
American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Oakum. 584,337, Jan. 5; Serial No. 641,489, published Sept. 22, 1953. Class 1.
American Woolen Company, New York, N. Y. Piece goods. 511,055, June 14, 1949. Amended. O. G. Jan. 5. Class 42.
Apothecaries Hall Company, Waterbury, Conn. Expendable anodes. 584,321, Jan. 5; Serial No. 638,050, published Oct. 6, 1953. Class 14.
Arkwright Merchandising Corporation, New York, N. Y. Blankets, bed sheets, cotton and linen sheeting, pillow cases, and towels. 584,360, Jan. 5; Serial No. 643,531, published Oct. 6, 1953. Class 42.
Armstrong Cork Company, Pittsburgh, to Armstrong Cork Company, Lancaster, Pa. Linoleum. 94,859, re-renewed Jan. 13, 1954. O. G. Jan. 5. Class 20.
Art-Cement Manufacturing Co., Miami, Fla. Finishing cement paint. 584,264, Jan. 5; Serial No. 620,293, published Oct. 6, 1953. Class 16.
Art-Lloyd Metal Products Corp., Brooklyn, N. Y. Combination utility table and cabinet. 584,249, Jan. 5; Serial No. 595,703, published Oct. 6, 1953. Class 32.
Arwood Precision Casting Corp., The, Brooklyn, N. Y. Metal castings. 584,366, Jan. 5; Serial No. 643,886, published Oct. 6, 1953. Class 14.
Atkinson-Davis Corporation, Claremont, N. H. Furniture. 584,338, Jan. 5; Serial No. 641,595, published Oct. 6, 1953. Class 32.
Atlas Powder Company, Wilmington, Del. Powder, dynamite, and blasting caps. 95,285, re-renewed Feb. 10, 1954. O. G. Jan. 5. Class 9.
Augstein, S., & Co., Inc., College Point, N. Y. Children's shorts, slacks, pedal pushers, etc. 584,434, Jan. 5; Serial No. 630,748. Class 39.
Ayerst McKenna & Harrison Limited, New York, N. Y. Inhaler. 584,397, Jan. 5; Serial No. 646,843, published Oct. 13, 1953. Class 44.
Bagpak, Inc., to International Paper Company, New York, N. Y. Paper bags. 307,034, renewed Oct. 10, 1953. O. G. Jan. 5. Class 2.
Bancroft, Joseph, & Sons Co., Wilmington, Del. Cotton piece goods. 306,595, renewed Sept. 26, 1953. O. G. Jan. 5. Class 42.
Bancroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. 584,398, Jan. 5; Serial No. 646,978, published Oct. 6, 1953. Class 42.
Barash Company, Inc., The, New York, N. Y. Combination of 100% leather fibres and a saturant latex. 584,347, Jan. 5; Serial No. 642,518, published Sept. 15, 1953. Class 1.
Baxter, Don, Inc., Glendale, Calif. Container dispenser for intravenous solutions, intravenous tubing, etc. 584,265 Jan. 5; Serial No. 620,572, published Sept. 29, 1953. Class 44.
Baxter Laboratories, Inc., Morton Grove, Ill. Container dispenser for parenteral solutions, intravenous tubing, etc. 584,266, Jan. 5; Serial No. 620,585, published Sept. 29, 1953. Class 44.
Bay Company, The, Bridgeport, Conn., to Parke, Davis & Company, Detroit, Mich. Adhesive plaster. 306,965, renewed Oct. 10, 1953. O. G. Jan. 5. Class 44.
Beatrice Foods Co.: *See*—
Blue Valley Creamery Company.
Becton, Dickinson and Company, Rutherford, N. J. Hypodermic syringes. 584,402, Jan. 5; Serial No. 647,586, published Oct. 20, 1953. Class 44.
Bendix Aviation Corporation, doing business as Eclipse-Pioneer Division, Teterboro, N. J. Tubes enclosing heater elements. 435,746, Jan. 6, 1948. Republished Jan. 5. Class 21.
Benson, Irving, Los Angeles, Calif. Latex rubber coating for coating and reinforcing fur skins. 584,439, Jan. 5; Serial No. 633,563. Class 5.
Better Brushes, Incorporated, Palmer, Mass. Metal cleaner and polish, silver polish, floor wax, etc. 584,324, Jan. 5; Serial No. 639,410, published Oct. 13, 1953. Class 4.
Beverly Corporation, The, Chicago, Ill. Vitaminic preparation. 584,301, Jan. 5; Serial No. 635,119, published Oct. 20, 1953. Class 18.
Beverly Vogue Company, Los Angeles, Calif. Garter panties. 584,289, Jan. 5; Serial No. 633,297, published Oct. 13, 1953. Class 39.
Bishop, Hazel, Inc., New York, N. Y. Lipsticks and liquid creme rouge. 584,406, Jan. 5; Serial No. 627,042, published Sept. 15, 1953. Class 51.
Blue Valley Creamery Company, to Beatrice Foods Co., Chicago, Ill. French, mayonnaise, salad and Thousand Island dressings, and sandwich spread. 306,727, renewed Sept. 26, 1953. O. G. Jan. 5. Class 46.
Bly, Simon, Jr., New York, N. Y. Dentifrice-containing capsules. 584,350, Jan. 5; Serial No. 642,865, published Oct. 13, 1953. Class 51.
Bracken, L. D.: *See*—
Bracken, Louis D.
Bracken, Louis D., doing business as L. D. Bracken, Seattle, Wash. Lotion for the treatment of the human scalp. 584,318, Jan. 5; Serial No. 637,171, published Sept. 22, 1953. Class 18.
Brand, Julius, Leather Co., Inc., Newark, N. J. Reni leather. 584,282, Jan. 5; Serial No. 630,496, published Sept. 22, 1953. Class 1.
Budd's Auto Service: *See*—
Lidecker, Valentine E.
Burpee, W. Atlee, Co., Philadelphia, Pa. Flower seeds. 584,280, Jan. 5; Serial No. 629,547, published Dec. 16, 1952. Class 1.
Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Nasal preparation. 584,290, Jan. 5; Serial No. 633,348, published Oct. 20, 1953. Class 18.
Campbell, Harry T., Sons' Corp., Towson, Md. Calcite preparation. 584,334, Jan. 5; Serial No. 640,605, published Sept. 22, 1953. Class 1.
Carew Manufacturing Company, South Hadley Falls, by Valley Paper Company, Holyoke, Mass. Writing and printing paper. 307,862, Nov. 7, 1933. Republished Jan. 5. Class 37.
Caron Corporation: *See*—
Daltroff, E., & Cie.
Carpenter Steel Company, The, Reading, Pa. Steel. 404,402, Nov. 23, 1943. Republished Jan. 5. Class 14.
Carpenter Steel Company, The, Reading, Pa. Steel. 416,984–7, Oct. 9, 1945. Republished Jan. 5. Class 14.
Carpenter Steel Company, The, Reading Pa. Steel. 420,263, Apr. 2, 1946. Republished Jan. 5. Class 14.
Carpenter Steel Company, The, Reading, Pa. Steel. 432,491, Sept. 2, 1947. Republished Jan. 5. Class 14.
Carpenter Steel Company, The, Reading, Pa. Steel. 440,428, Aug. 31, 1948. Republished Jan. 5. Class 14.
Carpenter Steel Company, The, Reading, Pa. Steel. 441,733, Dec. 28, 1948. Republished Jan. 5. Class 14.
Carpenter Steel Company, The, Reading, Pa. Steel. 443,627, Dec. 13, 1949. Republished Jan. 5. Class 14.
Cavy, Alfonso, doing business as Alfonso Cavy & Co., Chicago, Ill. Frozen prepared food product. 584,393, Jan. 5; Serial No. 646,364, published Sept. 29, 1953. Class 46.
Cavy, Alfonso, & Co.: *See*—
Cavy, Alfonso.
Central Television Service Inc., Chicago, Ill. Television installation and repair services. 584,408, Jan. 5; Serial No. 634,631, published Oct. 6, 1953. Class 103.
Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Thrown yarn. 584,382, Jan. 5; Serial No. 645,390, published Oct. 13, 1953. Class 43.
Charabot & Co., Inc., New York, N. Y. Aldehydes, alcohols, and natural and essential oils. 584,306, Jan. 5; Serial No. 635,952, published Oct. 20, 1953. Class 6.
Cherry-Levis Food Products Company: *See*—
Levis, Adolph.
Chicago Specialty Manufacturing Co., Chicago, Ill. Faucet bibb washers. 584,448, Jan. 5; Serial No. 638,063. Class 35.

Childcraft Equipment Company, New York, N. Y. Playground equipment, sporting goods, card games, etc. 584,287, Jan. 5; Serial No. 632,153, published Oct. 13, 1953. Class 22.
Cleveland Graphite Bronze Company, The, Cleveland, Ohio. Automotive vehicle chassis parts. 584,300, Jan. 5; Serial No. 635,082, published Oct. 13, 1953. Class 19.
Club Razor & Blade Mfg. Corp., Newark, N. J. Razor blades. 310,399, renewed Feb. 27, 1954. O. G. Jan. 5. Class 23.
Coats & Clark Inc., New York, N. Y. Thread. 584,394, Jan. 5; Serial No. 646,456, published Oct. 6, 1953. Class 43.
Collegiate Manufacturing Company, Inc., Ames, Iowa. Stuffed dog fenturing school letters and initials, etc. 584,253, Jan. 5; Serial No. 605,409, published Oct. 13, 1953. Class 22.
Colonial Mills, Inc., to Robbins Mills, Inc., New York, N. Y. Rayon crepe. 306,462, renewed Sept. 19, 1953. O. G. Jan. 5. Class 42.
Commercial Solvents Corporation, New York, N. Y., to Commercial Solvents Corporation, Terre Haute, Ind. Ethyl alcohol and grain alcohol. 307,457, renewed Oct. 24, 1953. O. G. Jan. 5. Class 49.
Commercial Solvents Corporation, New York, N. Y., to Commercial Solvents Corporation, Terre Haute, Ind. Denatured alcohol. 308,481, renewed Dec. 5, 1953. O. G. Jan. 5. Class 6.
Corkran, Hill & Co., assignee: *See*—
Harvey, W. Ewing.
Courtaulds Limited, London, England. Woven bolting cloth. 584,401, Jan. 5; Serial No. 647,268, published Oct. 6, 1953. Class 42.
Craighead, John R., Company Incorporated, Denver, Colo. Boys' and men's Western belts. 584,420, Jan. 5; Serial No. 612,683. Class 39.
Crookes Laboratories, Inc., Mineola, N. Y. Relaxant-sedative preparation. 584,317, Jan. 5; Serial No. 637,038, published Sept. 22, 1953. Class 18.
Crucible Steel Company of America, New York, N. Y. Steel bars, rods, billets, blooms, etc. 584,312, Jan. 5; Serial No. 636,881, published Oct. 6, 1953. Class 14.
Curtis Drug Co., Decatur, Ill. Enteric coated tablets for the relief of arthritis, etc. 584,284, Jan. 5; Serial No. 630,991, published Oct. 20, 1953. Class 18.
Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France. Liqueurs. 584,263, Jan. 5; Serial No. 617,714, published Sept. 8, 1953. Class 49.
Czarev Milling Co., Independence, Mo. Granulated dog food. 584,400, Jan. 5; Serial No. 647,165, published Sept. 29, 1953. Class 46.
D. D. S. Publishing Corporation, New York, N. Y. Periodical publication. 584,438, Jan. 5; Serial No. 632,829. Class 38.
Daltroff, E., & Cie, doing business as Parfumerie Caron, Paris, France, to Caron Corporation, New York, N. Y. Perfumes, toilet waters, face and toilet powders, etc. 307,107, renewed Oct. 17, 1953. O. G. Jan. 5. Class 51.
Daltroff, E., & Cie, doing business as Parfumerie Caron, Paris, France, to Caron Corporation, New York, N. Y. Perfumes, toilet waters, face and toilet powders, etc. 308,506, renewed Dec. 5, 1953. O. G. Jan. 5. Class 51.
Day, Emily D., to General Foods Corporation, New York, N. Y. Figs, dried fruits, and nuts. 93,973, re-renewed Oct. 28, 1953. O. G. Jan. 5. Class 46.
Dow Chemical Company, The, Midland, Mich. 584,252, Jan. 5. Synthetic resinous plastics in the form of film and sheeting. Serial No. 601,605, published Aug. 4, 1953. Class 1; synthetic resinous plastics in the form of molding granules and molding powder. Serial No. 636,557, published June 23, 1953. Class 6. (Consolidated certificate. Classes 1 and 6.)
Druckerman, Ben, & Company, Inc., New York, N. Y. Linen fabrics. 584,335, Jan. 5; Serial No. 640,787, published Oct. 6, 1953. Class 42.
Dry Cleaners Research Industries, Inc., Chicago, Ill. Pressing fluid composition and preparation for treating garments and fabrics. 584,302, Jan. 5; Serial No. 635,126, published Oct. 20, 1953. Class 6.
Duotone Company, Inc., Keyport, N. J. Chemically treated cloths. 584,453, Jan. 5; Serial No. 640,729. Class 29.
Dupli-Color Products Co., Inc., Chicago, Ill. Protective coating. 584,298, Jan. 5; Serial No. 634,891, published Oct. 13, 1953. Class 16.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Polyester film. 584,357, Jan. 5; Serial No. 643,473, published Sept. 22, 1953. Class 1.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Polyethylene film. 584,358, Jan. 5; Serial No. 643,474, published Sept. 22, 1953. Class 1.
Eagle-Flagg Tanning Corporation, New York, N. Y. Leather. 584,341, Jan. 5; Serial No. 642,023, published Sept. 22, 1953. Class 1.
Eclipse-Pioneer Division: *See*—
Bendix Aviation Corporation.
Eclipse Sleep Products Inc., Brooklyn, N. Y. Couch beds. 584,374, Jan. 5; Serial No. 644,834, published Oct. 6, 1953. Class 32.
Electro-Lab Processes, Inc., Cincinnati, Ohio. Electroplating new and re-electroplating used tips of electrically heated welding and soldering devices. 584,415, Jan. 5; Serial No. 623,505, published Oct. 13, 1953. Class 106.
Elliott Paint & Varnish Company, Chicago, Ill. Ready-mixed paint and liquid paint enamel. 584,385, Jan. 5; Serial No. 645,472, published Oct. 6, 1953. Class 16.
Empire Twine and Yarn Co., Inc., New York, N. Y. Twine and cordage. 311,053, renewed Mar. 13, 1954. O. G. Jan. 5. Class 7.
Englander Company, Inc., The, assignee: *See*—
New York Mattress Company.
Engler, Ruth A., doing business as Ruth Ann Engler Candy Company, Phoenix, Ariz. Candy. 584,339, Jan. 5; Serial No. 641,773, published Sept. 29, 1953. Class 46.
Engler, Ruth Ann, Candy Company: *See*—
Engler, Ruth A.
EnzRust Co.: *See*—
Price, Burton S.
European & Overseas Trading Company Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Peat moss for horticultural use as fertilizer. 584,388. Jan. 5; Serial No. 645,703, published Oct. 13, 1953. Class 10.
Everett, S. & R. J., Co. Ltd., Surrey, England. Hypodermic needles, hypodermic tubing, and dental broaches. 584,250, Jan. 5; Serial No. 591,920, published Oct. 13, 1953. Class 44.
Faber, Eberhard, Pencil Company, Brooklyn, N. Y. Pencils. 311,169, renewed Mar. 13, 1954. O. G. Jan. 5. Class 37.
Fabric Chemicals Company, Jersey City, N. J. Water repellent finishing agent. 584,377, Jan. 5; Serial No. 645,237, published Oct. 13, 1953. Class 6.
Facile Corporation, Paterson, N. J. Metallic yarn. 584,363, Jan. 5; Serial No. 643,759, published Oct. 6, 1953. Class 43.
Fansteel Metallurgical Corporation, North Chicago, Ill. Tantalum, tungsten, molybdenum and columbium, etc. 584,295, Jan. 5; Serial No. 634,037, published Oct. 13, 1953. Class 14.
Foster-Milburn Company, Buffalo, N. Y. Laxatives. 310,201, renewed Feb. 13, 1954. O. G. Jan. 5. Class 18.
Frances Citrus Association, Santa Ana, Calif. Fresh oranges. 310,779, renewed Mar. 6, 1954. O. G. Jan. 5. Class 46.
Frozen Confections, Inc., New York, N. Y. Frozen confections, etc. 310,480, Feb. 27, 1934. Amended. O. G. Jan. 5. Class 46.
Fulton Bag and Cotton Mills, Atlanta, Ga. Composition for applying to cotton and burlap bags to render them rodent repellent. 584,286, Jan. 5; Serial No. 631,796, published Oct. 13, 1953. Class 6.
Garcia & Vega, Inc., New York, N. Y. Cigars. 584,375, Jan. 5; Serial No. 644,972, published Oct. 6, 1953. Class 17.
General Foods Corporation: *See*—
Day, Emily D.
General Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires. 584,403, Jan. 5; Serial No. 647,841, published Oct. 20, 1953. Class 35.
Gibson, G. M., Corporation, Bellevue, Iowa. Ironing machines, clothes washing machines and clothes driers. 584,276, Jan. 5; Serial No. 626,508, published Oct. 13, 1953. Class 24.
Glen Raven Cotton Mills, Inc., Glen Raven, N. C. Vinyl coated awning and upholstery fabrics. 584,445, Jan. 5; Serial No. 636,474. Class 42.
Glyco Products Co. Inc., Brooklyn, N. Y. Ethylene diamine tetraacetic acid and salts of said acid. 584,320, Jan. 5; Serial No. 637,438, published Oct. 13, 1953. Class 6.
Gold Bond Stamp Company, Minneapolis, Minn. Promoting sales of clients' merchandise. 584,413, Jan. 5; Serial No. 641,720, published Sept. 29, 1953. Class 101.
Greif, L., & Bro., Inc., Baltimore, Md. Men's suits, topcoats, overcoats, etc. 584,450, Jan. 5; Serial No. 639,368. Class 39.
Greif, L., & Bro., Inc., Baltimore, Md. Men's suits, topcoats, overcoats, etc. 584,451–2, Jan. 5. Serial Nos. 640,454–5. Class 39.
Grossman, Ralph E., doing business as Picture Craft Co., Decatur, Ill. Artists' and signwriters' brushes. 584,437, Jan. 5; Serial No. 632,785. Class 29.
Grush, Arthur, Brooklyn, N. Y. Wallets of sanitary napkins. 584,285, Jan. 5; Serial No. 631,353, published Sept. 22, 1953. Class 44.
Hadley Finsterwald Company, Detroit, Mich. Furniture set. 584,447, Jan. 5; Serial No. 637,048. Class 32.
Hampshire Paper Company, South Hadley Falls, by Valley Paper Company, Holyoke, Mass. Writing and printing paper. 307,177, Oct. 17, 1933. Republished Jan. 5. Class 37.
Hampshire Paper Company, South Hadley Falls, by Valley Paper Company, Holyoke, Mass. Writing and printing paper. 308,990, Dec. 26, 1933. Republished Jan. 5. Class 37.

Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere. 584,261, Jan. 5. Polishing, brushing and buffing wheels, and compositions for buffing, polishing, and like purposes, Serial No. 617,194, published Dec. 16, 1952, Class 4; electroplating bath ingredients, ammonium chloride, ammonium nitrate, etc., Serial No. 617,195, published Dec. 30, 1952, Class 6; metal anodes, Serial No. 634,644, published Mar. 17, 1953, Class 14; apparatus for electroplating, anodically treating, electrocleaning, etc., Serial No. 617,495, published May 19, 1953, Class 21; polishing, buffing, cleaning, pickling, degreasing, and washing machines and parts thereof, Serial No. 618,293, published July 21, 1953, Class 23. (Consolidated certificate, Classes 4, 6, 14, 21, and 23.)

Happy Days Publishing Company: *See*—
Ryder, Melvin.

Hardwick Stove Company, Cleveland, Tenn. Gas ranges and gas stoves and parts thereof. 437,113, Mar. 9, 1948. Republished Jan. 5. Class 34.

Harvey, W. Ewing, Baltimore, Md., assignor to Corkran, Hill & Co., to Swift & Company, Chicago, Ill. Cheese. 93,991, re-renewed Oct. 28, 1953. O. G. Jan. 5. Class 46.

Hayes-Donahue Manufacturing Co., Inc., The, Milford, Conn., by Tip-Top Products Company, Omaha, Nebr. Mechanical non-electric hair curlers. 389,691, Aug. 19, 1941. Republished Jan. 5. Class 40.

Holt Hardwood Company, Oconto, Wis. Wood flour. 584,359, Jan. 5; Serial No. 643,490, published Sept. 22, 1953. Class 1.

Hopkins Agricultural Chemical Co., Madison, Wis. Rodenticides. 584,440, Jan. 5; Serial No. 633,934. Class 6.

Horex-Columbus-Werk K.-G. Fritz Kleemann, Bad Homburg, Germany. Motorcycles. 584,313, Jan. 5; Serial No. 636,912, published Oct. 13, 1953. Class 19.

Huyck, F. C., & Sons, Rensselaer and Albany, N. Y. Blankets, automobile and lap robes, steamer rugs, etc. 584,297, Jan. 5; Serial No. 634,850, published Oct. 6, 1953. Class 42.

Hysan Products Company, Chicago, Ill. Toilet bowl sanitizer. 584,327, Jan. 5; Serial No. 639,756, published Oct. 13, 1953. Class 52.

Ideal Novelty & Toy Co., Brooklyn, to Ideal Toy Corporation, Hollis, N. Y. Dolls. 309,103, renewed Jan. 2, 1954. O. G. Jan. 5. Class 22.

Ideal Toy Corporation: *See*—
Ideal Novelty & Toy Co.

Industrial Electronics Corporation, Newark, N. J. Fluorescent lamps, incandescent lamps, fluorescent starters and fluorescent ballasts. 584,392, Jan. 5; Serial No. 646,216, published Sept. 22, 1953. Class 21.

Imperial Brassiere Corp., New York, N. Y. Brassières, bandeaux and girdles. 584,421, Jan. 5; Serial No. 613,131. Class 39.

International Milling Company, Minneapolis, Minn. Wheat flour. 307,184, renewed Oct. 17, 1953. O. G. Jan. 5. Class 46.

International Milling Company, Minneapolis, Minn. Wheat flour. 584,404, Jan. 5; Serial No. 649,306, published Sept. 29, 1953. Class 46.

International Minerals & Chemical Corporation, Chicago, Ill. Blend of clays to mix with molding sand. 584,273, Jan. 5; Serial No. 625,204, published Sept. 22, 1953. Class 1.

International Paper Company: *See*—
Bagpak, Inc.

Ivers-Lee Company, Newark, N. J. Envelope-like sealed containers. 584,422, Jan. 5; Serial No. 613,225. Class 2.

Johnson Oil Refining Company, Chicago, Ill. Gasoline. 306,975, renewed Oct. 10, 1953. O. G. Jan. 5. Class 15.

Joy Manufacturing Company, Pittsburgh, Pa. 584,254, Jan. 5. Shuttle cars, trucks for kerf-cutting machines, and utility trucks, Serial No. 606,870, published Mar. 31, 1953, Class 19; molded rubber and/or synthetic rubber covered electric power and communication connectors; controllers for electric motors, etc. Serial No. 632,941, published June 30, 1953, Class 21; air motors—rotary; carpullers; compressors; continuous miners; conveyors; etc., Serial No. 606,945, published June 2, 1953, Class 23; axial flow fans and for oxygen generators, Serial No. 634,692, published Mar. 17, 1953, Class 34. (Consolidated certificate. Classes 19, 21, 23, and 34.)

K & L Auto Upholstering Company, Washington, D. C. Textile fabrics. 584,391, Jan. 5; Serial No. 645,897, published Oct. 6, 1953. Class 42.

Kahn, David, Inc., North Bergen, N. J. Cartridge refills for ball-point pens and for writing ink. 584,257, Jan. 5; Serial No. 608,359, published Oct. 6, 1953. Class 11.

Kahn, David, Inc., North Bergen, N. J. Writing ink. 584,304, Jan. 5; Serial No. 635,656, published Oct. 6, 1953. Class 11.

Kali Manufacturing Co., Philadelphia, Pa. Cleaning fluids and soap. 584,274, Jan. 5; Serial No. 625,314, published Oct. 6, 1953. Class 52.

Kay Electric Company, Pine Brook, N. J. Instrument that is a narrow band sweeping oscillator. 584,277, Jan. 5; Serial No. 627,947, published Aug. 18, 1953. Class 26.

Kay Electric Company, Pine Brook, N. J. Instrument for producing pulse widths. 584,278, Jan. 5; Serial No. 627,949, published Aug. 18, 1953. Class 26.

Keystone Steel & Wire Company, South Bartonville, to Keystone Steel & Wire Company, Peoria, Ill. Barbed wire. 94,911, re-renewed Jan. 13, 1954. O. G. Jan. 5. Class 13.

Kroger Co., The, Cincinnati, Ohio. Apricot preserves, strawberry preserves, olives, salad olives, etc. 584,395, Jan. 5; Serial No. 646,556, published Sept. 29, 1953. Class 46.

Ladd Hosiery Mills, Inc., Reading, Pa. Hosiery. 584,436, Jan. 5; Serial No. 632,035. Class 39.

Lambert Company, The: *See*—
Lambert Pharmacal Company.
Pro-phy-lac-tic Brush Company.

Lambert Pharmacal Company, by The Lambert Company, St. Louis, Mo. Liquid chemical or medical preparation. 41,413, Nov. 3, 1903. Republished Jan. 5. Classes 18 and 51.

Landers, Frary & Clark, Hartford and New Britain, to Landers, Frary & Clark, New Britain, Conn. Electrically-heated chafing-dishes, coffee-percolators, coffee-machines, etc. 306,151, renewed Sept. 12, 1953. O. G. Jan. 5. Class 21.

Lane Publishing Co., Menlo Park, Calif. Monthly magazine. 584,454, Jan. 5; Serial No. 641,114. Class 38.

Lane Publishing Co., Menlo Park, Calif. Monthly magazine. 584,455, Jan. 5; Serial No. 641,935. Class 38.

Levis, Adolph, trading as Cherry-Levis Food Products Company, Philadelphia, Pa. Polish sausage and hot sausage. 584,346, Jan. 5; Serial No. 642,481, published Oct. 13, 1953. Class 46.

Levis, Adolph, trading as Cherry-Levis Food Products Company, Philadelphia, Pa. Lamb tongues. 584,352, Jan. 5; Serial No. 642,920, published Oct. 13, 1953. Class 46.

Levis, Adolph, trading as Cherry-Levis Food Products Company, Philadelphia, Pa. Hot sausage, pigs' feet, pigs' knuckles. 584,353, Jan. 5; Serial No. 642,921, published Oct. 13, 1953. Class 46.

Liberty Belles Incorporated, The, New York, N. Y. Establishment and maintenance of membership in a national patriotic organization and furthering the ideals thereof. 584,416, Jan. 5; Serial No. 640,746, published Sept. 29, 1953. Class 100.

Lichtman, Marian V., doing business as Marlite Co., Queens Village, N. Y. Utility, kitchen, and bathroom cabinets. 584,386, Jan. 5; Serial No. 645,653, published Oct. 6, 1953. Class 32.

Lidecker, Valentine E., doing business as Budd's Auto Service, Chicago, Ill. Mixtures of sand and salt. 584,425, Jan. 5; Serial No. 620,736. Class 1.

Lifeguard Products Limited, London, England. Preparations in paste form for cleaning and polishing windows. 584,259, Jan. 5; Serial No. 608,612, published Oct. 6, 1953. Class 4.

Lincoln Fabrics Co. Inc., New York, N. Y. Corduroy piece goods. 584,458, Jan. 5; Serial No. 647,855. Class 42.

Lindfelt Glove Manufacturing Co., Des Moines, Iowa. Handball gloves, golf gloves, skiing gloves, etc. 584,362, Jan. 5; Serial No. 643,693, published Oct. 6, 1953. Class 22.

Loose-Wiles Biscuit Company, to Sunshine Biscuits, Inc., Long Island City, N. Y. Bakery products. 308,196, renewed Nov. 21, 1953. O. G. Jan. 5. Class 46.

Losana Products, Ltd., Los Angeles, Calif. Antacid medicinal preparation. 307,055, renewed Oct. 10, 1953. O. G. Jan. 5. Class 18.

Lowenstein, M., & Sons, Inc., New York, N. Y. Piece goods. 584,331, Jan. 5; Serial No. 640,288, published Oct. 6, 1953. Class 42.

Macdonald & Muir, to Macdonald & Muir Limited, Leith, Scotland. Scotch whisky. 306,736, renewed Sept. 26, 1953. O. G. Jan. 5. Class 49.

Macdonald & Muir Limited: *See*—
Macdonald & Muir.

Magnet Cove Barium Corporation, Bellaire, Tex. Dry ground native clay. 584,342, Jan. 5; Serial No. 642,112, published Sept. 15, 1953. Class 1.

Malloy Laboratories, Inc., San Diego, Calif. Deodorizing powder. 584,329 Jan. 5; Serial No. 639,946, published Sept. 22, 1953. Class 51.

Marlite Co.: *See*—
Lichtman, Marian V.

Mathieson Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.

Mathieson Chemical Corporation, New York, N. Y. Preparation for increasing diffusion and adsorption of parenteral solutions. 584,365, Jan. 5; Serial No. 643,846, published Sept. 22, 1953. Class 18.

Maxwell Royal Chair Co., Inc., Hickory, N. C. Upholstered platform rockers. 584,355, Jan. 5; Serial No. 643,430, published Oct. 6, 1953. Class 32.

McCabe, Inez T., doing business as John McCabe & Co., New York, N. Y. Carbon paper, typewriter ribbons, writing inks, and ink for pads. 584,348, Jan. 5; Serial No. 642,561, published Oct. 6, 1953. Class 11.

McCabe, John, & Co.: *See*—
McCabe, Inez T.

McMillen-Stanley Sales Corporation, San Francisco, Calif. Services comprising selling for others various goods as agent. 584,410, Jan. 5; Serial No. 638,594, published Sept. 29, 1953. Class 101.

Merck & Co., Inc., Rahway, N. J. Antibiotics and antibiotic preparations. 584,369, Jan. 5; Serial No. 644,129, published Sept. 22, 1953. Class 18.

Meyerhans & Cie. A. G., Mühle Weinfelden, Weinfelden, Switzerland. Vegetable products in the form of flakes, semolina, flour and powder, etc., for use as a stock-thickening, sizing, finishing, etc. agent. 584,271, Jan. 5; Serial No. 625,019, published Sept. 29, 1953. Class 6.

Montgomery Bros., Inc., Philadelphia, Pa. Rubber latex compounds, rubber backing material. 584,305, Jan. 5; Serial No. 635,707, published Sept. 22, 1953. Class 1.

Mooresville Mills, Inc., Mooresville, N. C. Piece goods. 584,368, Jan. 5; Serial No. 644,052, published Oct. 6, 1953. Class 42.

Mutual Orange Distributors, Redlands, Calif. Fresh citrus fruit and canned orange juice. 358,048, June 28, 1938. Republished Jan. 5. Class 46.

National Plastic Products Company, The, Odenton, Md. Furniture leg caps. 584,376, Jan. 5; Serial No. 645,052, published Oct. 6, 1953. Class 32.

Naxon Utilities Corporation, Chicago, Ill. Electric wringers, hand-operated wringers and electric washing machines. 584,378, Jan. 5; Serial No. 645,332, published Oct. 13, 1953. Class 24.

New York Herald Tribune Inc., New York, N. Y. Informational service rendered through the medium of a radio and television program. 584,414, Jan. 5; Serial No. 643,972, published Oct. 13, 1953. Class 107.

New York Mattress Company, Boston, Mass., assignor to The Englander Company, Inc., Chicago, Ill. Mattresses and box springs. 584,267, Jan. 5; Serial No. 620,898, published July 1, 1952. Class 32.

Nobema Products Corporation, New York, N. Y. Water colors, oil colors, tempera colors, etc. 584,255, Jan. 5; Serial No. 607,184, published Oct. 6, 1953. Class 16.

Norfolk Paint & Varnish Co.: *See*—
Norfolk Paint & Varnish Company.

Norfolk Paint & Varnish Company, Quincy and Atlantic, to Norfolk Paint & Varnish Co., Quincy, Mass. Ready-mixed paints, paint enamels, and varnishes. 310,767, renewed Mar. 6, 1954. O. G. Jan. 5. Class 16.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Soap shaving cream. 195,247, Feb. 17, 1925. Republished Jan. 5, Class 51.

Nyal Company, Inc.: *See*—
Nyal Company.

Ohio Ferro-Alloys Corporation, Canton, Ohio. Chrome-silicon ladle addition. 584,428, Jan. 5; Serial No. 623,009. Class 14.

Olin Industries, Inc., New Haven, Conn. Buttons and cuff links. 584,431–2, Jan. 5; Serial Nos. 627,213–14. Class 28.

Orlando Daily Newspapers, Inc., Orlando, Fla. Sunday newspaper supplement. 584,449, Jan. 5; Serial No. 638,869. Class 38.

Paca Manufacturing Company, Inc., Baltimore, Md. Cotton, wool, linen, and synthetic fabrics. 584,442, Jan. 5; Serial No. 635,490. Class 42.

Paramount Paint & Lacquer Co., assignee: *See*—
Zolatone, Inc.

Parfumerie Caron: *See*—
Daltroff, E., Cie.

Parke, Davis & Company: *See*—
Bay Company, The.

Parke, Davis & Company, Detroit, Mich. Digestant and antacid. 306,970, renewed Oct. 10, 1953. O. G. Jan. 5. Class 18.

Parke, Davis & Company, Detroit, Mich. Chemotherapeutic agent. 584,351, Jan. 5; Serial No. 642,898, published Oct. 13, 1953. Class 18.

Penco Fabrics, Inc., New York, N. Y. Textile fabrics. 584,390, Jan. 5; Serial No. 645,829, published Oct. 6, 1953. Class 42.

Perfection Frocks, Inc., New York, N. Y. Ladies' house dresses and aprons. 584,372, Jan. 5; Serial No. 644,501, published Oct. 6, 1953. Class 39.

Perrysburg Laboratories, Inc., Perrysburg, Ohio. Resinous molding compositions. 584,332, Jan. 5; Serial No. 640,302, published Sept. 22, 1953. Class 6.

Peyton Pharmacal Corporation, New York, N. Y. Lyophilized iodine. 584,371, Jan. 5; Serial No. 644,189, published Sept. 22, 1953. Class 18.

Phillips, Richard M., East Peoria, Ill. Chair of metal and canvas. 584,379, Jan. 5; Serial No. 645,335, published Oct. 6, 1953. Class 32.

Picture Craft Co.: *See*—
Grossman, Ralph E.

Pinch Frame Body Company, Fresno, Calif. Vehicle body frame. 584,319, Jan. 5; Serial No. 637,326, published Oct. 13, 1953. Class 19.

Premium Trading Corp., New York, N. Y. Pearls. 584,424, Jan. 5; Serial No. 618,215. Class 28.

Preservaline Manufacturing Co., The, Brooklyn, N. Y., to Preservaline Manufacturing Company, Flemington, N. J. Food preservatives, antiseptics, disinfectants, etc. 94,934, re-renewed Jan. 13, 1954. O. G. Jan. 5. Class 46.

Preservaline Manufacturing Company: *See*—
Preservaline Manufacturing Co., The.

Price, Burton S., doing business as EnzRust Co., Newton, Mass. Concentrated heavy-duty cleaner, degreaser, etc. 584,291, Jan. 5; Serial No. 633,555, published Oct. 6, 1953. Class 52.

Procter & Gamble Company, The, Cincinnati, Ohio. Shampoo. 584,364, Jan. 5; Serial No. 643,787, published Oct. 6, 1953. Class 52.

Professional Art Products Company: *See*—
Re Cupido, Frank H.

Pro-phy-lac-tic Brush Company, to The Lambert Company, Northampton, Mass. Tooth brushes. 307,113, renewed Oct. 17, 1953. O. G. Jan. 5. Class 29.

Pro-phy-lac-tic Brush Company, to The Lambert Company, Northampton, Mass. Hair brushes. 307,665, renewed Oct. 31, 1953. O. G. Jan. 5. Class 29.

Pro-phy-lac-tic Brush Company, to The Lambert Company, Northampton, Mass. Tooth brushes and hair brushes. 308,115, renewed Nov. 21, 1953. O. G. Jan. 5. Class 29.

Protective Lining Corporation, New York, N. Y. Hermetically sealed bag containing chemicals for producing hot or cold packs. 584,426, Jan. 5; Serial No. 621,782. Class 44.

Quincy Foundry, Inc., Quincy, Ohio. Metal castings. 584,294, Jan. 5; Serial No. 633,943, published Oct. 6, 1953. Class 14.

Raynal Cycle Company Limited, The, Birmingham, England. Pedal cycles and motorcycles and parts of and fittings therefor. 584,279, Jan. 5; Serial No. 628,716, published Oct. 13, 1953. Class 19.

Re Cupido, Frank H., doing business as Professional Art Products Company, Chicago, Ill. Artists' materials—namely, artists' tempera paint colors. 584,418, Jan. 5; Serial No. 595,414. Class 16.

Reichhold Chemicals, Inc., Detroit, Mich. Synthetic resin or solution thereof used as a base for paints and varnishes, etc. 584,281, Jan. 5; Serial No. 630,150, published Oct. 13, 1953. Class 16.

Republic Steel Corporation: *See*—
Steel and Tubes, Inc.

Revlon Products Corporation, New York, N. Y. Pressed powder make-up. 584,344, Jan. 5; Serial No. 642,421, published Oct. 13, 1953. Class 51.

Ripon Knitting Works, Ripon, Wis. Men's athletic socks and knitted socks. 584,435, Jan. 5; Serial No. 631,689. Class 39.

Robbins Mills, Inc.: *See*—
Colonial Mills, Inc.

Rowntree & Company Limited, York, England. Cocoas, cocoa essence, block chocolate, etc. 93,644, re-renewed Oct. 7, 1953. O. G. Jan. 5. Class 46.

Rubinstein, Helena, Inc., New York, N. Y. Cigarette holders. 584,296, Jan. 5; Serial No. 634,548, published Oct. 6, 1953. Class 8.

Ryder, Melvin, to Happy Days Publishing Company, Washington, D. C. Weekly newspaper. 306,785, renewed Sept. 26, 1953. O. G. Jan. 5. Class 38.

Ryder, Melvin, to Happy Days Publishing Company, Washington, D. C. Weekly newspaper. 306,790, renewed Sept. 26, 1953. O. G. Jan. 5. Class 38.

Ryerson, Joseph T., & Son, Inc., Chicago, Ill. Alloy steel. 584,314–15, Jan. 5; Serial Nos. 637,002–3, published Oct. 6, 1953. Class 14.

Ryerson, Joseph T., & Son, Inc., Chicago, Ill. Tool steel. 584,316, Jan. 5; Serial No. 637,004, published Oct. 6, 1953. Class 14.

Safway Steel Products, Inc., Milwaukee, Wis. 584,268, Jan. 5. Shores and portable and permanent grandstands and bleachers, Serial No. 639,456, published June 23, 1953, Class 12; swing stages, mobile maintenance scaffolding towers, etc., Serial No. 624,031, published Mar. 10, 1953, Class 50. (Consolidated certificate, Classes 12 and 50.)

Sandpaper Incorporated, Rockland, Mass. Abrasive paper. 584,283, Jan. 5; Serial No. 630,684, published Oct. 13, 1953. Class 4.

Sarant, John, doing business under the name Shell Sponge Co., Brooklyn, N. Y. Natural sponges and cellulose sponges. 584,340, Jan. 5; Serial No. 641,974, published Sept. 22, 1953. Class 1.

Sayles Finishing Plants, Inc., Saylesville, R. I., and New York, N. Y. Applying a glazed finish which endures through repeated laundering to fabrics furnished by others. 584,409, Jan. 5; Serial No. 636,036, published Oct. 6, 1953. Class 106.

Schenley Laboratories, Inc., New York, N. Y. Oral fat emulsion. 584,308, Jan. 5; Serial No. 636,385, published Oct. 13, 1953. Class 18.

Searle, G. D., & Co., Skokie, Ill. Pharmaceutical. 584,361, Jan. 5; Serial No. 643,560, published Sept. 29, 1953. Class 18.

Sears, Roebuck and Co., Chicago, Ill. Corsetry. 584,269, Jan. 5; Serial No. 623,735, published Oct. 6, 1953. Class 39.

Shell Sponge Co.: *See*—
Sarant, John.

Simmons-Boardman Publishing Corporation, New York, N. Y. Monthly magazine. 584,444, Jan. 5; Serial No. 636,150. Class 38.

Sloan Valve Company, Chicago, Ill. Articles made of a flexible material having properties of rubber—namely, double molded cups, etc. 584,323, Jan. 5; Serial No. 639,146, published Oct. 20, 1953. Class 35.

Societe Anonyme de la Benedictine, Distillerie de la Liqueur de l'Ancienne Abbaye de Fecamp, Fecamp, (Seine Inferieure), France. Alcoholic liqueur. 584,459, Jan. 5; Serial No. 582,655. Class 49.

Solar Electric Corporation, Warren, Pa. Electric incandescent lamps, electric wire connectors, etc. 577,325, July 14, 1953. Corrected. O. G. Jan. 5. Class 21.

Sonotone Corporation, Elmsford, N. Y. Hearing-aid microphones. 584,258, Jan. 5; Serial No. 608,572, published Oct. 20, 1953. Class 44.

Southwest Airways Company, San Francisco and South San Francisco, Calif. Transportation of cargo and passengers by aircraft. 584,412, Jan. 5; Serial No. 641,216, published Sept. 29, 1953. Class 105.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Vitaminic and antianemic preparation. 584,299, Jan. 5; Serial No. 634,927, published Sept. 22, 1953. Class 18.

Standard Fuel Engineering Company, Detroit, Mich. Refractory material. 307,046, renewed Oct. 10, 1953. O. G. Jan. 5. Class 12.

Standard Fuel Engineering Company, Detroit, Mich. Brick and tile. 307,619, renewed Oct. 31, 1953. O. G. Jan. 5. Class 12.

Sta-Rite Ginnie-Lou, Inc., Shelbyville, Ill. Bobby pins. 584,423, Jan. 5; Serial No. 617,062. Class 40.

Statler Mfg. Co., Chicago, Ill. Children's miniature steering wheel and seat for use in an automobile. 584,354, Jan. 5; Serial No. 643,001, published Oct. 13, 1953. Class 19.

Steel and Tubes, Inc., to Republic Steel Corporation, Cleveland, Ohio. Boiler and condenser tubes. 309,248, renewed Jan. 9, 1954. O. G. Jan. 5. Class 34.

Steelcote Manufacturing Company, St. Louis, Mo. Rubber base paint. 584,262, Jan. 5; Serial No. 617,563, published Oct. 6, 1953. Class 16.

Steinberg Bros., New York, N. Y. Men's wear. 584,446, Jan. 5; Serial No. 636,947. Class 39.

Ste Pierre Smirnoff Fls, Incorporated, New York, N. Y., to Ste Pierre Smirnoff Fls, Incorporated, Hartford, Conn. Non-alcoholic, maltless fruit juices. 309,865, renewed Feb. 6, 1954. O. G. Jan. 5. Class 45.

Stern Brothers, New York, N. Y. Living room furniture, bedroom furniture, dining room furniture, etc. 584,325, Jan. 5; Serial No. 639,500, published Oct. 6, 1953. Class 32.

Stern Brothers, New York, N. Y. Sanitary goods and manicure sets. 584,326, Jan. 5; Serial No. 639,507, published Sept. 22, 1953. Class 44.

Stetson, John B., Company, Philadelphia, Pa. Men's and boys' felt and straw hats and cloth caps, etc. 306,372, renewed Sept. 19, 1953. O. G. Jan. 5. Class 39.

Steuerman, Sergey, New York, N. Y. Compaction of soils for foundation and construction purposes. 584,407, Jan. 5; Serial No. 631,222, published Oct. 6, 1953. Class 103.

Stoffel & Co., Inc., New York, N. Y. Cotton fabrics. 584,433, Jan. 5; Serial No. 627,470. Class 42.

Stolich, Peter A.: *See*—
Stolich, Peter A., Inc.

Stolich, Peter A., Inc., by Peter A. Stolich, Salinas, Calif. Fresh vegetables. 333,440, Mar. 24, 1936. Republished Jan. 5. Class 46.

Streamline Garment Corp., Chicago, Ill. Ladies' dresses. 584,457, Jan. 5; Serial No. 647,727. Class 39.

Striplastic Company, The, Cleveland, Ohio. Resinous plastic solutions, with or without pigments, for protective coatings. 584,441, Jan. 5; Serial No. 635,332. Class 16.

Strong Cobb & Company, Inc., Cleveland, Ohio. Sedative preparation. 584,328, Jan. 5; Serial No. 639,791, published Oct. 20, 1953. Class 18.

Sunshine Biscuits, Inc.: *See*—
Loose-Wiles Biscuit Company.

Supersite Corporation, New York, N. Y. Bumpers for automobile doors. 584,443, Jan. 5; Serial No. 635,957. Class 19.

Swift & Company: *See*—
Harvey, W. Ewing.

Tanner, Chas. S., Co., Providence, R. I. Chemical preparation. 584,336, Jan. 5; Serial No. 641,477, published Oct. 13, 1953. Class 6.

Texas Textile Mills, Dallas, Tex. Piece goods. 584,419, Jan. 5; Serial No. 608,520. Class 42.

Thrifty Stamp Co., Milwaukee, Wis. Merchandising service. 584,411, Jan. 5; Serial No. 639,794, published Sept. 29, 1953. Class 101.

Thurman Manufacturing Company, Philadelphia, Pa. Boleros. 584,430, Jan. 5; Serial No. 626,761. Class 39.

Tilton Industries, Inc., Montpelier, Vt. Safety pins. 584,373, Jan. 5; Serial No. 644,696, published Oct. 6, 1953. Class 40.

Tip-Top Products Company: *See*—
Hayes-Donahue Manufacturing Co., Inc., The.

Ulmann, Bernhard, Co. Inc., Long Island City, N. Y. Art needlework picture kits. 584,367, Jan. 5; Serial No. 643,929, published Oct. 13, 1953. Class 40.

Ultra Chemical Works Inc., Paterson, N. J. Detergents, and ingredients thereof. 584,322, Jan. 5; Serial No. 638,985, published Oct. 13, 1953. Class 52.

Uncle Sam Chemical Co., Inc., New York, N. Y. Moth-repellent crystals, and pressed blocks made of moth-repellent crystals. 584,260, Jan. 5; Serial No. 611,730, published June 17, 1952. Class 6.

Underwood, John, & Co., New York, N. Y. Typewriter ribbons. 584,380–1, Jan. 5; Serial Nos. 645,354–5, published Oct. 6, 1953. Class 11.

United Elastic Corporation, Easthampton, Mass. Elastic fabrics. 584,275, Jan. 5; Serial No. 625,774, puolished Oct. 6, 1953. Class 42.

United Elastic Corporation, Easthampton, Mass. Narrow elastic webbing. 584,292, Jan. 5; Serial No. 633,797, published Oct. 6, 1953. Class 42.

United Elastic Corporation, Easthampton, Mass. Wide elastic fabrics. 584,293, Jan. 5; Serial No. 633,798, published Oct. 6, 1953. Class 42.

United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. 584,405, Jan. 5; Serial No. 650,657, published Oct. 13, 1953. Class 22.

United States Rubber Company, New York, N. Y. Belting. 584,288, Jan. 5; Serial No. 632,278, published Oct. 20, 1953. Class 35.

United States Rubber Company, New York, N. Y. Hose made of rubber or rubber and fabric. 584,396, Jan. 5; Serial No. 646,636, published Oct. 20, 1953. Class 35.

United States Tobacco Company, Flemington, N. J., and New York, N. Y. Snuff. 584,251, Jan. 5; Serial No. 598,128, published Oct. 6, 1953. Class 17.

Vacuum Metals Corporation, Cambridge, Mass. Nickel and nickel alloys. 584,370, Jan. 5; Serial No. 644,145, published Oct. 6, 1953. Class 14.

Valley Paper Company: *See*—
Carew Manufacturing Company.
Hampshire Paper Company.

Van Yperen, Thomas, & Co., Fairlawn, N. J. Marine type paints and varnishes. 584,345, Jan. 5; Serial No. 642,431, published Oct. 6, 1953. Class 16.

Venus Foundation Garments, Inc., Chicago, Ill. Girdles, panty girdles, corselettes, etc. 584,356, Jan. 5; Serial No. 643,451, published Oct. 6, 1953. Class 39.

Viavi Company, The, San Francisco, Calif. Preparation for the relief of functional constipation. 584,383, Jan. 5; Serial No. 645,447, published Oct. 13, 1953. Class 18.

Viavi Company, The, San Francisco, Calif. Dietary supplement. 584,384, Jan. 5; Serial No. 645,448, published Oct. 13, 1953. Class 18.

Viavi Company, The, San Francisco, Calif. Rectal suppositories; cocoa butter capsules, a preparation for use in massage, etc. 584,399, Jan. 5; Serial No. 647,116, published Oct. 13, 1953. Class 18.

Vilhon, E. S., Company, Inc., Chicago, Ill. Personal leather goods. 584,427, Jan. 5; Serial No. 622,235. Class 3.

Wacker-Chemie G. m. b. H.: *See*—
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H.

Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie G. m. b. H. Aliphatic esters and ketones. 584,303, Jan. 5; Serial No. 635,573, published Oct. 20, 1953. Class 6.

Warren Laboratories, Baltimore, Md. Partial dentures. 584,343, Jan. 5; Serial No. 642,189, published Oct. 20, 1953. Class 44.

Warwick Wax Co. Inc., Long Island City, N. Y. Chemically modified microcrystalline wax. 584,310, Jan. 5; Serial No. 636,664, published Oct. 13, 1953. Class 6.

Wayne Knitting Mills, Fort Wayne, Ind. Women's hosiery. 584,429, Jan. 5; Serial No. 626,278. Class 39.

Webb, Robert J. A., Union City, Okla. Cotton seed. 311,092, renewed Mar. 13, 1954. O. G. Jan. 5. Class 1.

Welier, E. E., Co., Providence, R. I. Shoe buckles. 584,309, Jan. 5; Serial No. 636,394, published Oct. 13, 1953. Class 40.

West Disinfecting Company, Long Island City, N. Y. Liquid soap. 584,272, Jan. 5; Serial No. 625,165, published Sept. 30, 1952. Class 52.

Wigler, Albert I., doing business as Addison-Proctor Company, Newark, N. J. Liquid dentifrice, mouth wash, hair pomade, etc. 584,256, Jan. 5; Serial No. 607,370, published Nov. 18, 1952. Class 51.

Williams, C. K., & Co., Easton, Pa. Ground limestone. 584,311, Jan. 5; Serial No. 636,756, published Sept. 22, 1953. Class 1.

Wooster Brush Company, The, Wooster, Ohio. Paint brushes. 222,635, Jan. 4, 1927. Republished Jan. 5. Class 29.

Wooster Brush Company, The, Wooster, Ohio. Paint brushes. 222,637, Jan. 4, 1927. Republished Jan. 5. Class 29.

Zerbst Pharmacal Company, Inc., St. Joseph, Mo. Vitamin preparation. 584,333, Jan. 5; Serial No. 640,369, published Sept. 22, 1953. Class 18.

Zip Abrasive Company, The, Cleveland, Ohio. Lapping or grinding compound, which is a mixture of abrasives. 584,330, Jan. 5; Serial No. 640,061, published Oct. 13, 1953. Class 4.

Zola Products Co., Inc., Miami, Fla. Powder having hygroscopic qualities. 584,456, Jan. 5; Serial No. 643,132. Class 6.

Zolatone, Inc., assignor to Paramount Paint & Lacquer Co., Los Angeles, Calif. Nitro-cellulose base multicolored lacquers. 584,270, Jan. 5; Serial No. 624,218, published Oct. 6, 1953. Class 16.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Blend of clays to mix with molding sand. International Minerals & Chemical Corporation. 584,273, Jan. 5; Serial No. 625,204, published Sept. 22, 1953.

Calcite preparation. Harry T. Campbell Sons' Corp. 584,334, Jan. 5; Serial No. 640,605, published Sept. 22, 1953.

Clay, Dry ground native. Magnet Cove Barium Corporation. 584,342, Jan. 5; Serial No. 642,112, published Sept. 15, 1953.

Combination of 100% leather fibres and a saturant latex. The Barash Company, Inc. 584,347, Jan. 5; Serial No. 642,518, published Sept. 15, 1953.

Leather. William Amer Company. 584,349, Jan. 5; Serial No. 642,796, published Sept. 22, 1953.

Leather, Eagle-Flagg Tanning Corporation. 584,341, Jan. 5; Serial No. 642,023, published Sept. 22, 1953.

Leather, Real. Julius Brand Leather Co., Inc. 584,282, Jan. 5; Serial No. 630,496, published Sept. 22, 1953.

Limestone, Ground. C. K. Williams & Co. 584,311, Jan. 5; Serial No. 636,756, published Sept. 22, 1953.

Mixtures of sand and salt. V. E. Lidecker. 584,425, Jan. 5; Serial No. 620,736.

Natural sponges and cellulose sponges. J. Sarant. 584,340, Jan. 5; Serial No. 641,974, published Sept. 22, 1953.

Oakum. American Manufacturing Company. 584,337, Jan. 5; Serial No. 641,489, published Sept. 22, 1953.

Polyester film. E. I. du Pont de Nemours and Company. 584,357, Jan. 5; Serial No. 643,473, published Sept. 22, 1953.

Polyethylene film. E. I. du Pont de Nemours and Company. 584,358, Jan. 5; Serial No. 643,474, published Sept. 22, 1953.

Rubber latex compounds, rubber backing material. Montgomery Bros., Inc. 584,305, Jan. 5; Serial No. 635,707, published Sept. 22, 1953.

Seed,Cotton. R. J. A. Webb. 311,092, renewed Mar. 13, 1954. O. G. Jan. 5.

Seeds, Flower. W. Atlee Burpee Co. 584,280, Jan. 5; Serial No. 629,547, published Dec. 16, 1952.

Synthetic resinous plastics in the form of film and sheeting. The Dow Chemical Company. 584,252, Jan. 5; Serial No. 601,605, published Aug. 4, 1953. (Consolidated certificate, Classes 1 and 6.)

Wood flour. Holt Hardwood Company. 584,359, Jan. 5; Serial No. 643,490, published Sept. 22, 1953.

CLASS 2

Bags, Paper. Bagpak, Inc. 307,034, renewed Oct. 10, 1953. O. G. Jan. 5.

Containers, Envelope-like sealed. Ivers-Lee Company. 584,422, Jan. 5; Serial No. 613,225.

CLASS 3

Personal leather goods. E. S. Vihon Company, Inc. 584,427, Jan. 5; Serial No. 622,235.

CLASS 4

Abrasive paper. Sandpaper Incorporated. 584,283, Jan 5; Serial No. 630,684, published Oct. 13, 1953.

Cleaner and polish, Metal, silver polish, floor wax, etc. Better Brushes, Incorporated. 584,324, Jan. 5; Serial No. 639,410, published Oct. 13, 1953.

Lapping or grinding compound, which is a mixture of abrasives. The Zip Abrasive Company. 584,330, Jan. 5; Serial No. 640,061, published Oct. 13, 1953.

Polishing, brushing and buffing wheels, and compositions for buffing, polishing, and like purposes. Hanson-Van Winkle-Munning Company. 584,261, Jan. 5; Serial No. 617,194, published Dec. 16, 1952. (Consolidated certificate, Classes 4, 6, 14, 21, and 23.)

Preparations in paste form for cleaning and polishing windows. Lifeguard Products Limited. 584,259, Jan. 5; Serial No. 608,612, published Oct. 6, 1953.

CLASS 5

Latex rubber coating for coating and reinforcing fur skins. I. Benson. 584,439, Jan. 5; Serial No. 633,563.

CLASS 6

Aldehydes, alcohols, and natural and essential oils. Charabot & Co., Inc. 584,306, Jan. 5; Serial No. 635,952, published Oct. 20, 1953.

Aliphatic esters and ketones. Dr. A. Wacker Gesellschaft fur Elektrochemische Industrie, G. m. b. H. 584,303, Jan. 5; Serial No. 635,573, published Oct. 20, 1953.

Chemical preparation. Chas. S. Tanner Co. 584,336, Jan. 5; Serial No. 641,477, published Oct. 13, 1953.

Chemically modified microcrystalline wax. Warwick Wax Co. Inc. 584,310, Jan. 5; Serial No. 636,664, published Oct. 13, 1953.

Composition for applying to cotton and burlap bags to render them rodent repellent. Fulton Bag and Cotton Mills. 584,286, Jan. 5; Serial No. 631,796, published Oct. 13, 1953.

Denatured alcohol. Commercial Solvents Corporation. 308,481, renewed Dec. 5, 1953. O. G. Jan. 5.

Electroplating bath ingredients, ammonium chloride, ammonium nitrate, etc. Hanson-Van Winkle-Munning Company. 584,261, Jan. 5; Serial No. 617,195, published Dec. 30, 1952. (Consolidated certificate, Classes 4, 6, 14, 21 and 23.)

Ethylene diamine tetraacetic acid and salt of said acid. Glyco Products Co. Inc. 584,320, Jan. 5; Serial No. 637,438, published Oct. 13, 1953.

Moth-repellent crystals, and pressed blocks made of moth-repellent crystals. Uncle Sam Chemical Co., Inc. 584,260, Jan. 5; Serial No. 611,730, published June 17, 1952.

Powder having hygroscopic qualities. Zola Products Co., Inc. 584,456, Jan. 5; Serial No. 643,132.

Pressing fluid composition and preparation for treating garments and fabrics. Dry Cleaners Research Industries, Inc. 584,302, Jan. 5; Serial No. 635,126, published Oct. 20, 1953.

Resinous molding compositions. Perrysburg Laboratories, Inc. 584,332, Jan. 5; Serial No. 640,302, published Sept. 22, 1953.

Rodenticides. Hopkins Agricultural Chemical Co. 584,440, Jan. 5; Serial No. 633,934.

Synthetic resinous plastics in the form of molding granules and molding powder. The Dow Chemical Company. 584,252, Jan. 5; Serial No. 636,557, published June 23, 1953. (Consolidated certificate, Classes 1 and 6.)

Vegetable products in the form of flakes, semolina, flour and powder, etc., for use as a stock-thickening, sizing, finishing, etc. agent. Meyerhans & Cie. A. G., Mühle Weinfelden. 584,271, Jan. 5; Serial No. 625,019, published Sept. 29, 1953.

Water repellent finishing agent. Fabric Chemicals Company. 584,377, Jan. 5; Serial No. 645,237, published Oct. 13, 1953.

CLASS 7

Twine and cordage. Empire Twine and Yarn Co., Inc. 311,053, renewed Mar. 13, 1954. O. G. Jan. 5.

CLASS 8

Cigarette holders. Helena Rubinstein Inc. 584,296, Jan. 5; Serial No. 634,548, published Oct. 6, 1953.

CLASS 9

Powder, dynamite, and blasting caps. Atlas Powder Company. 95,285, re-renewed Feb. 10, 1954. O. G. Jan. 5.

CLASS 10

Nitrogen-containing solution, suitable for use as fertilizer. Allied Chemical & Dye Corporation. 584,307, Jan. 5; Serial No. 635,991, published Oct. 13, 1953.

Peat moss for horticultural use as fertilizer. European & Overseas Trading Company Gesellschaft mit beschränkter Haftung. 584,388, Jan. 5; Serial No. 645,703, published Oct. 13, 1953.

CLASS 11

Carbon paper, typewriter ribbons, writing inks, and ink for pads. I. T. McCabe. 584,348, Jan. 5; Serial No. 642,561, published Oct. 6, 1953.

Cartridge refills for ball-point pens and for writing ink. David Kahn Inc. 584,257, Jan. 5; Serial No. 608,359, published Oct. 6, 1953.

Ink, Writing. David Kahn Inc. 584,304, Jan. 5; Serial No. 635,656, published Oct. 6, 1953.

Typewriter ribbons. John Underwood & Co. 584,380–1, Jan. 5; Serial Nos. 645,354–5, published Oct. 6, 1953.

CLASS 12

Brick and tile. Standard Fuel Engineering Company. 307,619, renewed Oct. 31, 1953. O. G. Jan. 5.

Refractory material. Standard Fuel Engineering Company. 307,046, renewed Oct. 10, 1953. O. G. Jan. 5.

Shores and portable and permanent grandstands and bleachers. Safway Steel Products, Inc. 584,268, Jan. 5; Serial No. 639,456, published June 23, 1953. (Consolidated certificate, Classes 12 and 50.)

CLASS 13

Barbed wire. Keystone Steel & Wire Company. 94,911. re-renewed Jan. 13, 1954. O. G. Jan. 5.

CLASS 14

Anodes, Expendable. Apothecaries Hall Company. 584,321, Jan. 5; Serial No. 638,050, published Oct. 6, 1953.

Chrome-silicon ladle addition. Ohio Ferro-Alloys Corporation. 584,428, Jan. 5; Serial No. 623,009.

Metal anodes. Hanson-Van Winkle-Munning Company. 584,261, Jan. 5; Serial No. 634,644, published Mar. 17, 1953. (Consolidated certificate, Classes 4, 6, 14, 21, and 23.)

Metal castings. The Arwood Precision Casting Corp. 584,366, Jan. 5; Serial No. 643,886, published Oct. 6, 1953.

Metal castings. Quincy Foundry, Inc. 584,294, Jan. 5; Serial No. 633,943, published Oct. 6, 1953.

Nickel and nickel alloys. Vacuum Metals Corporation. 584,370, Jan. 5; Serial No. 644,145, published Oct. 6, 1953.

Steel. The Carpenter Steel Company. 404,402, Nov. 23, 1943. Republished Jan. 5.

Steel. The Carpenter Steel Company. 416,984–7, Oct. 9, 1945. Republished Jan. 5.

Steel. The Carpenter Steel Company. 420,263, Apr. 2, 1946. Republished Jan. 5.

Steel. The Carpenter Steel Company. 432,491, Sept. 2, 1947. Republished Jan. 5.

Steel. The Carpenter Steel Company. 440,428, Aug. 31, 1948. Republished Jan. 5.

Steel. The Carpenter Steel Company. 441,733, Dec. 28, 1948. Republished Jan. 5.

Steel. The Carpenter Steel Company. 443,627, Dec. 13, 1949. Republished Jan. 5.

Steel, Alloy. Joseph T. Ryerson & Son, Inc. 584,314–15, Jan. 5; Serial Nos. 637,002–3, published Oct. 6, 1953.

Steel bars, rods, billets, blooms, etc. Crucible Steel Company of America. 584,312, Jan. 5; Serial No. 636,881, published Oct. 6, 1953.

Steel, Tool. Joseph T. Ryerson & Son, Inc. 584,316, Jan. 5; Serial No. 637,004, published Oct. 6, 1953.

Tantalum, tungsten, molybdenum and columbium, etc. Fansteel Metallurgical Corporation. 584,295, Jan. 5; Serial No. 634,037, published Oct. 13, 1953.

CLASS 15

Gasoline. Johnson Oil Refining Company. 306,975, renewed Oct. 10, 1953. O. G. Jan. 5.

CLASS 16

Artists' materials—namely, artists' tempera paint colors. F. H. Re Cupido. 584,418, Jan. 5; Serial No. 595,414.

Coating, Protective. Dupli-Color Products Co., Inc. 584,298, Jan. 5; Serial No. 634,891, published Oct. 13, 1953.

Lacquers, Nitro-cellulose base multi-colored. Zolatone, Inc. 584,270, Jan. 5; Serial No. 624,218, published Oct. 6, 1953.

Paint, Finishing cement. Art-Cement Manufacturing Co. 584,264, Jan. 5; Serial No. 620,293, published Oct. 6, 1953.

Paint, Ready-mixed, and liquid paint enamel. Elliott Paint & Varnish Company. 584,385, Jan. 5; Serial No. 645,472, published Oct. 6, 1953.

Paint, Rubber base. Steelcote Manufacturing Company. 584,262, Jan. 5; Serial No. 617,563, published Oct. 6, 1953.

Paints and varnishes, Marine type. Thomas Van Yperen & Co. 584,345, Jan. 5; Serial No. 642,431, published Oct. 6, 1953.

Paints, Ready-mixed, paint enamels, and varnishes. Norfolk Paint & Varnish Company. 310,767, renewed Mar. 6, 1954. O. G. Jan. 5.

Resinous plastic solutions, with or without pigments, for protective coatings. The Striplastic Company. 584,441, Jan. 5; Serial No. 635,332.

Synthetic resin or solution thereof used as a base for paints and varnishes, etc. Reichhold Chemicals, Inc. 584,281, Jan. 5; Serial No. 630,150, published Oct. 13, 1953.

Water colors, oil colors, tempera colors, etc. Nobemn Products Corporation. 584,255, Jan. 5; Serial No. 607,184, published Oct. 6, 1953.

CLASS 17

Cigars. Garcia & Vega, Inc. 584,375, Jan. 5; Serial No. 644,972, published Oct. 6, 1953.

Snuff. United States Tobacco Company. 584,251, Jan. 5; Serial No. 598,128, published Oct. 6, 1953.

CLASS 18

Antibiotic preparation. Allied Laboratories, Inc. 584,389, Jan. 5; Serial No. 645,765, published Oct. 20, 1953.

Antibiotics and antibiotic preparations. Merck & Co., Inc. 584,369, Jan. 5; Serial No. 644,129, published Sept. 22, 1953.

Chemotherapeutic agent. Parke, Davis & Company. 584,351, Jan. 5; Serial No. 642,898, published Oct. 13, 1953.

Dietary supplement. The Viavi Company. 584,384, Jan. 5; Serial No. 645,448, published Oct. 13, 1953.

Digestant and antacid. Parke, Davis & Company. 306,970, renewed Oct. 10, 1953. O. G. Jan. 5.

Enteric coated tablets for the relief of arthritis, etc. Curtis Drug Co. 584,284, Jan. 5; Serial No. 630,991, published Oct. 20, 1953.

Iodine, Lyophilized. Peyton Pharmacal Corporation. 584,371, Jan. 5; Serial No. 644,189, published Sept. 22, 1953.

Laxatives. Foster-Milburn Company. 310,201, renewed Feb. 13, 1954. O. G. Jan. 5.

Liquid chemical or medical preparation. Lambert Pharmacal Company. 41,413, Nov. 3, 1903. Republished Jan. 5.

Lotion for the treatment of the human scalp. L. D. Bracken. 584,318, Jan. 5; Serial No. 637,171, published Sept. 22, 1953.

Medicinal preparation, Antacid. Losama Products, Ltd. 307,055, renewed Oct. 10, 1953. O. G. Jan. 5.

Nasal preparation. Burroughs Wellcome & Co. (U. S. A.) Inc. 584,290, Jan. 5; Serial No. 633,348, published Oct. 20, 1953.

Oral fat emulsion. Schenley Laboratories, Inc. 584,308, Jan. 5; Serial No. 636,385, published Oct. 13, 1953.

Pharmaceutical. G. D. Searle & Co. 584,361, Jan. 5; Serial No. 643,560, published Sept. 29, 1953.

Preparation for increasing diffusion and adsorption of parenteral solutions. Mathieson Chemical Corporation. 584,365, Jan. 5; Serial No. 643,846, published Sept. 22, 1953.

Preparation for the relief of functional constipation. The Viavi Company. 584,383, Jan. 5; Serial No. 645,447, published Oct. 13, 1953.

Relaxant-sedative preparation. Crookes Laboratories, Inc. 584,317, Jan. 5; Serial No. 637,038, published Sept. 22, 1953.

Sedative preparation. Strong Cobb & Company, Inc. 584,328, Jan. 5; Serial No. 639,791, published Oct. 20, 1953.

Suppositories, Rectal; cocoa butter capsules, a preparation for use in massage, etc. The Viavi Company. 584,399, Jan. 5; Serial No. 647,116, published Oct. 13, 1953.

Vitamin preparation. Zerbst Pharmacal Company, Inc. 584,333, Jan. 5; Serial No. 640,369, published Sept. 22, 1953.

Vitaminic and antianemic preparation. E. R. Squibb & Sons. 584,299, Jan. 5; Serial No. 634,927, published Sept. 22, 1953.

Vitaminic preparation. The Beverly Corporation. 584,301, Jan. 5; Serial No. 635,119, published Oct. 20, 1953.

CLASS 19

Bumpers for automobile doors. Supersite Corporation. 584,443, Jan. 5; Serial No. 635,957.

Cars, Shuttle, trucks for kerf-cutting machines, and utility trucks. Joy Manufacturing Company. 584,254, Jan. 5; Serial No. 606,870, published Mar. 31, 1953. (Consolidated certificate, Classes 19, 21, 23, and 34.)

Cycles, Pedal, and motor cycles and parts of and fittings therefor. The Raynal Cycle Company Limited. 594,279, Jan. 5; Serial No. 628,716, published Oct. 13, 1953.

Miniature steering wheel and seat for use in an automobile, Children's. Statler Mfg. Co. 584,354, Jan. 5; Serial No. 643,001, published Oct. 13, 1953.

Motorcycles. Horex-Columbus-Werk K.-G. Fritz Kleemann, 584,313, Jan. 5; Serial No. 636,912, published Oct. 13, 1953.

Vehicle body frame. Pinch Frame Body Company. 584,319, Jan. 5; Serial No. 637,326, published Oct. 13, 1593.

Vehicle chassis parts, Automotive. The Cleveland Graphite Bronze Company. 584,300, Jan. 5; Serial No. 635,082, published Oct. 13, 1953.

CLASS 20

Linoleum. Armstrong Cork Company. 94,859, re-renewed Jan. 13, 1954. O. G. Jan. 5.

CLASS 21

Apparatus for electroplating, anodically treating, electrocleaning, etc. Hanson-Van Winkle-Munning Company. 584,261, Jan. 5; Serial No. 617,495, published May 19, 1953. (Consolidated certificate, Classes 4, 6, 14, 21, and 23.)

Electric power and communication connectors, Molded rubber and/or synthetic rubber covered; controllers for electric motors, etc. Joy Manufacturing Company. 584,254, Jan. 5; Serial No. 632,941, published June 30, 1953. (Consolidated certificate, Classes 19, 21, 23, and 34.)

Electrically-heated chafing-dishes, coffee-percolators, coffee-machines, etc. Landers, Frary & Clark. 306,151, renewed Sept. 12, 1953. O. G. Jan. 5.

Lamps, Electric incandescent, electric wire connectors, etc. Solar Electric Corporation. 577,325, July 14, 1953. Corrected. O. G. Jan. 5.

Lamps, Fluorescent, incandescent lamps, fluorescent starters and fluorescent ballasts. Industrial Electronics Corporation. 584,392, Jan. 5; Serial No. 646,216, published Sept. 22, 1953.

Tubes enclosing heater elements. Bendix Aviation Corporation. 435,746, Jan. 6, 1948. Republished Jan. 5.

CLASS 22

Dolls. Ideal Novelty & Toy Co. 309,103, renewed Jan. 2, 1954. O. G. Jan. 5.

Handball gloves, golf gloves, skiing gloves, etc. Lindfelt Glove Manufacturing Co. 584,362, Jan. 5; Serial No. 643,693, published Oct. 6, 1953.

Playground equipment, sporting goods, card games, etc. Childcraft Equipment Company. 584,287, Jan. 5; Serial No. 632,153, published Oct. 13, 1953.

Playing cards. The United States Playing Card Company. 584,405, Jan. 5; Serial No. 650,657, published Oct. 13, 1953.

Stuffed dog featuring school letters and initials, etc. Collegiate Manufacturing Company, Inc. 584,253, Jan. 5; Serial No. 605,409, published Oct. 13, 1953.

CLASS 23

Air motors—rotary; carpullers; compressors; continuous miners; conveyors; etc. Joy Manufacturing Company. 584,254, Jan. 5; Serial No. 606,945, published June 2, 1953. (Consolidated certificate, Classes 19, 21, 23, and 34.)

Polishing, buffing, cleaning, pickling, degreasing and washing machines and parts thereof. Hanson-Van Winkle-Munning Company. 584,261, Jan. 5; Serial No. 618,293, published July 21, 1953. (Consolidated certificate, Classes 4, 6, 14, 21, and 23.)

Razor blades. Club Razor & Blade Mfg. Corp. 310,399, renewed Feb. 27, 1954. O. G. Jan. 5.

CLASS 24

Ironing machines, clothes washing machines and clothes driers. G. M. Gibson Corporation. 584,276, Jan. 5; Serial No. 626,508, published Oct. 13, 1953.

Wringers, Electric, hand-operated wringers and electric washing machines. Naxon Utilities Corporation. 584,378, Jan. 5; Serial No. 645,332, published Oct. 13, 1953.

CLASS 26

Instrument for producing pulse widths. Kay Electric Company. 584,278, Jan. 5; Serial No. 627,949, published Aug. 18, 1953.

Instrument that is a narrow band sweeping oscillator. Kay Electric Company. 584,277, Jan. 5; Serial No. 627,947, published Aug. 18, 1953.

CLASS 28

Buttons and cuff links. Olin Industries, Inc. 584,431–2, Jan. 5; Serial Nos. 627,213–14.

Pearls. Premium Trading Corp. 584,424, Jan. 5; Serial No. 618,215.

CLASS 29

Brushes, Artists' and signwriters'. R. E. Grossman. 584,437, Jan. 5; Serial No. 632,785.

Brushes, Hair. Pro-phy-lac-tic Brush Company. 307,665, renewed Oct. 31, 1953. O. G. Jan. 5.

Brushes, Paint. The Wooster Brush Company. 222,635, Jan. 4, 1927. Republished Jan. 5.

Brushes, Paint. The Wooster Brush Company. 222,637, Jan. 4, 1927. Republished Jan. 5.

Brushes, Tooth. Pro-phy-lac-tic Brush Company. 307,113, renewed Oct. 17, 1953. O. G. Jan. 5.

Brushes, Tooth, and hair brushes. Pro-phy-lac-tic Brush Company. 308,115, renewed Nov. 21, 1953. O. G. Jan. 5.

Chemically treated cloths. Duotone Company, Inc. 584,453, Jan. 5; Serial No. 640,729.

CLASS 32

Cabinets, Utility, kitchen, and bathroom. M. V. Lichtman. 584,386, Jan. 5; Serial No. 645,653, published Oct. 6, 1953.

Chair of metal and canvas. R. M. Phillips. 584,379, Jan. 5; Serial No. 645,335, published Oct. 6, 1953.

Couch beds. Eclipse Sleep Products, Inc. 584,374, Jan. 5; Serial No. 644,834, published Oct. 6, 1953.

Furniture. Atkinson-Davis Corporation. 584,338, Jan. 5; Serial No. 641,595, published Oct. 6, 1953.

Furniture leg caps. The National Plastic Products Company. 584,376, Jan. 5; Serial No. 645,052, published Oct. 6, 1953.

Furniture, Living room, bedroom furniture, dining room furniture, etc. Stern Brothers. 584,325, Jan. 5; Serial No. 639,500, published Oct. 6, 1953.

Furniture set. Hadley Finsterwald Company. 584,447, Jan. 5; Serial No. 637,048.

Mattresses and box springs. New York Mattress Company. 584,267, Jan. 5; Serial No. 620,898, published July 1, 1952.

Rockers, Upholstered platform. Maxwell Royal Chair Co., Inc. 584,355, Jan. 5; Serial No. 643,430, published Oct. 6, 1953.

Table and cabinet, Combination utility. Art-Lloyd Metal Products Corp. 584,249, Jan. 5; Serial No. 595,703, published Oct. 6, 1953.

CLASS 34

Boiler and condenser tubes, Steel and Tubes, Inc. 309,248, renewed Jan. 9, 1954. O. G. Jan. 5.

Fans, Axial flow, and for oxygen generators. Joy Manufacturing Company. 584,254, Jan. 5; Serial No. 634,692, published Mar. 17, 1953. (Consolidated certificate, Classes 19, 21, 23, and 34.)

Ranges, Gas, and gas stoves and parts thereof. Hardwick Stove Company. 437,113, Mar. 9, 1948. Republished Jan. 5.

CLASS 35

Articles made of a flexible material having properties of rubber—namely, double molded cups, etc. Sloan Valve Company. 584,323, Jan. 5; Serial No. 639,146, published Oct. 20, 1953.

Belting. United States Rubber Company. 584,288, Jan. 5; Serial No. 632,278, published Oct. 20, 1953.

Hose made of rubber or rubber and fabric. United States Rubber Company. 584,396, Jan. 5; Serial No. 646,636, published Oct. 20, 1953.

Tires, Pneumatic. The General Tire & Rubber Company. 584,403, Jan. 5; Serial No. 647,841, published Oct. 20, 1953.

Washers, Faucet bibb. Chicago Specialty Manufacturing Co. 584,448. Jan. 5; Serial No. 638,063.

CLASS 37

Paper, Writing and printing. Carew Manufacturing Company. 307,862, Nov. 7, 1933. Republished Jan. 5.

Paper, Writing and printing. Hampshire Paper Company. 307,177, Oct. 17, 1933. Republished Jan. 5.

Paper, Writing and printing. Hampshire Paper Company. 308,990, Dec. 26, 1933. Republished Jan. 5.

Pencils. Eberhard Faber Pencil Company. 311,169, renewed Mar. 13, 1954. O. G. Jan. 5.

CLASS 38

Magazine, Monthly. Lane Publishing Co. 584,454, Jan. 5; Serial No. 641,114.

Magazine, Monthly. Lane Publishing Co. 584,455, Jan. 5; Serial No. 641,935.

Magazine, Monthly. Simmons-Boardman Publishing Corporation. 584,444, Jan. 5; Serial No. 636,150.

Newspaper supplement, Sunday. Orlando Daily Newspapers, Inc. 584,449, Jan. 5; Serial No. 638,869.

Newspaper, Weekly. M. Ryder. 306,785, renewed Sept. 26, 1953. O. G. Jan. 5.

Newspaper, Weekly. M. Ryder. 306,790, renewed Sept. 26, 1953. O. G. Jan. 5.

Publication, Periodical. D. D. S. Publishing Corporation. 584,438, Jan. 5; Serial No. 632,829.

CLASS 39

Belts, Boys' and men's. John R. Craighead Company Incorporated. 584,420, Jan. 5; Serial No. 612,683.

Boleros. Thurman Manufacturing Company. 584,430, Jan. 5; Serial No. 626,761.

Brassières, bandeaux and girdles. Imperial Brassiere Corp. 584,421, Jan. 5; Serial No. 613,131.

Corsetry. Sears, Roebuck and Co. 584,269, Jan. 5; Serial No. 623,735, published Oct. 6, 1953.

Dresses and aprons, Ladies' house. Perfection Frocks, Inc. 584,372, Jan. 5; Serial No. 644,501, published Oct. 6, 1953.

Dresses, Ladies'. Streamline Garment Corp. 584,457, Jan. 5; Serial No. 647,727.

Girdles, panty girdles, corselettes, etc. Venus Foundation Garments, Inc. 584,356, Jan. 5; Serial No. 643,451, published Oct. 6, 1953.

Hats and cloth caps, etc., Men's and boys' felt and straw. John B. Stetson Company. 306,372, renewed Sept. 19, 1953. O. G. Jan. 5.

Hosiery. Ladd Hosiery Mills, Inc. 584,436, Jan. 5; Serial No. 632,035.

Hosiery, Women's. Wayne Knitting Mills. 584,429, Jan. 5; Serial No. 626,278.

Men's wear. Steinberg Bros. 584,446, Jan. 5; Serial No. 636,947.

Panties, Garter. Beverly Vogue Company. 584,289, Jan. 5; Serial No. 633,297, published Oct. 13, 1953.

Shorts, slacks, pedal pushers, etc., Children's. S. Augstein & Co., Inc. 584,434, Jan. 5; Serial No. 630,748.

Socks, Men's athletic, and knitted socks. Ripon Knitting Works. 584,435, Jan. 5; Serial No. 631,689.

Suits, topcoats, overcoats, etc., Men's. L. Greif & Bro., Inc. 584,450, Jan. 5; Serial No. 639,368.

Suits, topcoats, overcoats, etc., Men's. L. Greif & Bro., Inc. 584,451–2, Jan. 5; Serial Nos. 640,454–5.

CLASS 40

Art needlework picture kits. Bernhard Ulmann Co. Inc. 584,367, Jan. 5; Serial No. 643,929, published Oct. 13, 1953.

Combs, Hard rubber. American Hard Rubber Company. 311,163, renewed Mar. 13, 1954. O. G. Jan. 5.

Hair curlers, Mechanical non-electric. The Hayes-Donahue Manufacturing Co., Inc. 389,691, Aug. 19, 1941. Republished Jan. 5.

Pins, Bobby. Sta-Rite Ginnie-Lou, Inc. 584,423, Jan. 5; Serial No. 617,062.

Pins, Safety. Tilton Industries, Inc. 584,373, Jan. 5; Serial No. 644,696, published Oct. 6, 1953.

Shoe buckles. E. E. Weller Co. 584,309, Jan. 5; Serial No. 636,394, published Oct. 13, 1953.

CLASS 42

Blankets, automobile and lap robes, steamer rugs, etc. F. C. Huyck & Sons. 584,297, Jan. 5; Serial No. 634,850, published Oct. 6, 1953.

Blankets, bed sheets, cotton and linen sheeting, pillow cases, and towels. Arkwright Merchandising Corporation. 584,360, Jan. 5; Serial No. 643,531, published Oct. 6, 1953.
Cloth, Woven bolting. Courtaulds Limited. 584,401. Jan. 5; Serial No. 647,268, published Oct. 6, 1953.
Elastic webbing, Narrow. United Elastic Corporation. 584,292, Jan. 5; Serial No. 633,797, published Oct. 6, 1953.
Fabrics. Joseph Bancroft & Sons Co. 584,398, Jan. 5; Serial No. 646,978, published Oct. 6, 1953.
Fabrics, Cotton. Stoffel & Co., Inc. 584,433, Jan. 5; Serial No. 627,470.
Fabrics, Cotton, wool, linen, and synthetic. Paca Manufacturing Company, Inc. 584,442, Jan. 5; Serial No. 635,490.
Fabrics, Elastic. United Elastic Corporation. 584,275, Jan. 5; Serial No. 625,774, published Oct. 6, 1953.
Fabrics, Linen. Ben Druckerman & Company, Inc. 584,335, Jan. 5; Serial No. 640,787, published Oct. 6, 1953.
Fabrics, Textile. K & L Auto Upholstering Company. 584,391, Jan. 5; Serial No. 645,897, published Oct. 6, 1953.
Fabrics, Textile. Penco Fabrics, Inc. 584,390, Jan. 5; Serial No. 645,829, published Oct. 6, 1953.
Fabrics, Vinyl coated awning and upholstery. Glen Raven Cotton Mills, Inc. 584,445, Jan. 5; Serial No. 636,474.
Fabrics, Wide elastic. United Elastic Corporation. 584,293, Jan. 5; Serial No. 633,798, published Oct. 6, 1953.
Piece goods. American Woolen Company. 511,055, June 14, 1949. Amended. O. G. Jan. 5.
Piece goods. M Lowenstein & Sons, Inc. 584,331, Jan. 5; Serial No. 640,288, published Oct. 6, 1953.
Piece goods. Mooresville Mills, Inc. 584,368, Jan. 5; Serial No. 644,052, published Oct. 6, 1953.
Piece goods. Texas Textile Mills. 584,419, Jan. 5; Serial No. 608,520.
Piece goods, Corduroy. Lincoln Fabrics Co, Inc. 584,458, Jan. 5; Serial No. 647,855.
Piece goods, Cotton. Joseph Bancroft & Sons Co. 306,595, renewed Sept. 26, 1953. O. G. Jan. 5.
Rayon crepe. Colonial Mills, Inc. 306,462, renewed Sept. 19, 1953. O. G Jan. 5.
Robes, Woolen. The Abel Corporation. 584,417, Jan. 5; Serial No. 584,740.
Sheeting, Bed, upholstery fabrics, bed sheets, etc. Aldens, Inc. 584,387, Jan. 5; Serial No. 645,687, published Oct. 6, 1953.

CLASS 43

Thread. Coats & Clark Inc. 584,394, Jan. 5; Serial No. 646,456, published Oct. 6, 1953.
Yarn, Metallic. Facile Corporation. 584,363, Jan. 5; Serial No. 643,759, published Oct. 6, 1953.
Yarn, Thrown. Chadbourn Hosiery Mills, Incorporated. 584,382, Jan. 5; Serial No. 645,390, published Oct. 13, 1953.

CLASS 44

Adhesive plaster. The Bay Company. 306,965, renewed Oct. 10, 1953. O. G. Jan. 5.
Bag containing chemicals for producing hot or cold packs, Hermetically sealed. Protective Lining Corporation. 584,426, Jan. 5; Serial No. 621,782.
Container dispenser for intravenous solutions, intravenous tubing, etc. Don Baxter, Inc. 584,265, Jan. 5; Serial No. 620,572, published Sept. 29, 1953.
Container dispenser for parenteral solutions, intravenous tubing, etc. Baxter Laboratories, Inc. 584,266, Jan. 5; Serial No. 620,585, published Sept. 29, 1953.
Dentures, Partial. Warren Laboratories. 584,343, Jan. 5; Serial No. 642,189, published Oct. 20, 1953.
Hearing-aid microphones. Sonotone Corporation. 584,258, Jan. 5; Serial No. 608,572, published Oct. 20, 1953.
Hypodermic needles, hypodermic tubing, and dental broaches. S. & R. J. Everett Co. Ltd. 584,250, Jan. 5; Serial No. 591,920, published Oct. 13, 1953.
Inhaler. Ayerst, McKenna & Harrison Limited. 584,397. Jan. 5; Serial No. 646,843, published Oct. 13, 1953.
Sanitary goods and manicure sets. Stern Brothers. 584,326, Jan. 5; Serial No. 639,507, published Sept. 22, 1953.
Sanitary napkins, Wallets of. A. Grush. 584,285, Jan. 5; Serial No. 631,353, published Sept. 22, 1953.
Syringes, Hypodermic. Becton, Dickinson and Company. 584,402, Jan. 5; Serial No. 647,586, published Oct. 20, 1953.

CLASS 45

Non-alcoholic, maltless fruit juices. Ste Pierre Smirnoff Fls, Incorporated. 309,865, renewed Feb. 6, 1954. O. G. Jan. 5.

CLASS 46

Apricot preserves, strawberry preserves, olives, salad olives, etc. The Kroger Co. 584,395, Jan. 5; Serial No. 646,556, published Sept. 29, 1953.
Bakery products. Loose-Wiles Biscuit Company. 308,196, renewed Nov. 21, 1953. O. G. Jan. 5.
Candy. R. A. Engler. 584,339, Jan. 5; Serial No. 641,773, published Sept. 29, 1953.
Cheese. W. E. Harvey. 93,991, re-renewed Oct. 28, 1953. O. G. Jan. 5.
Cocoas, cocoa essence, block chocolate, etc. Rowntree & Company Limited. 93,644, re-renewed Oct. 7, 1953. O. G. Jan. 5.
Confections, etc., Frozen. Frozen Confections, Inc. 310,480, Feb. 27, 1934. Amended. O. G. Jan. 5.
Figs, dried fruits, and nuts. E. D. Day. 93,973, re-renewed Oct. 28, 1953. O. G. Jan. 5.
Flour, Wheat. International Milling Company. 307,184, renewed Oct. 17, 1953. O. G. Jan. 5.
Flour, Wheat. International Milling Company. 584,404, Jan. 5; Serial No. 649,306, published Sept. 29, 1953.
Food, Granulated dog. Czarev Milling Co. 584,400, Jan. 5; Serial No. 647,165, published Sept. 29, 1953.
Food preservatives, antiseptics, disinfectants, etc. The Preservaline Manufacturing Co. 94,934, re-renewed Jan. 13, 1954. O. G. Jan. 5.
Food product, Frozen prepared. A. Cavy. 584,393, Jan. 5; Serial No. 646,364, published Sept. 29, 1953.
French, mayonnaise, salad, and Thousand Island dressings, and sandwich spread. Blue Valley Creamery Company. 306,727, renewed Sept. 26, 1953. O. G. Jan. 5.
Fruit, Fresh citrus, and canned orange juice. Mutual Orange Distributors. 358,048, June 28, 1938. Republished Jan. 5.
Lamb tongues. A. Levis. 584,352, Jan. 5; Serial No. 642,920, published Oct. 13, 1953.
Oranges, Fresh. Frances Citrus Association. 310,779, renewed Mar. 6, 1954. O. G. Jan. 5.
Sausage, Hot, pigs' feet, pigs' knuckles. A. Levis. 584,353, Jan. 5; Serial No. 642,921, published Oct. 13, 1953.
Sausage, Polish, and hot sausage. A. Levis. 584,346, Jan. 5; Serial No. 642,481, published Oct. 13, 1953.
Vegetables, Fresh. Peter A. Stolich, Inc. 333,440, Mar. 24, 1936. Republished Jan. 5.

CLASS 49

Ethyl alcohol and grain alcohol. Commercial Solvents Corporation. 307,457, renewed Oct. 24, 1953. O. G. Jan. 5.
Liqueur, Alcoholic. Societe Anonyme de la Benedictine, Distillerie de la Liqueur de l'Ancienne Abbaye de Fecamp. 584,459, Jan. 5; Serial No. 582,655.
Liqueurs. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie). 584,263, Jan. 5; Serial No. 617,714, published Sept. 8, 1953.
Whisky, Scotch. Macdonald & Muir. 306,736, renewed Sept. 26, 1953. O. G. Jan. 5.

CLASS 50

Stages, Swing, mobile maintenance scaffolding towers, etc. Safway Steel Products, Inc. 584,268, Jan. 5; Serial No. 621,031, published Mar. 10, 1953. (Consolidated certificate, Classes 12 and 50.)

CLASS 51

Dentifrice-containing capsules. S. Bly, Jr. 584,350, Jan. 5; Serial No. 642,865, published Oct. 13, 1953.
Dentifrice, Liquid, mouth wash, hair pomade, etc. A. I. Wigler. 584,256, Jan. 5; Serial No. 607,370, published Nov. 18, 1952.
Deodorizing powder. Malloy Laboratories, Inc. 584,329, Jan. 5; Serial No. 639,946, published Sept. 22, 1953.
Lipsticks and liquid creme rouge. Hazel Bishop, Inc. 584,406, Jan. 5; Serial No. 627,042, published Sept. 15, 1953.
Liquid chemical or medical preparation. Lambert Pharmacal Company. 41,413, Nov. 3, 1903. Republished Jan. 5.
Perfumes, toilet waters, face and toilet powders, etc. E. Daltroff & Cie. 307,107, renewed Oct. 17, 1953. O. G. Jan. 5.
Perfumes, toilet waters, face and toilet powders, etc. E. Daltroff & Cie. 308,506, renewed Dec. 5, 1953. O. G. Jan. 5.
Powder-make-up, Pressed. Revlon Products Corporation. 584,344, Jan. 5; Serial No. 642,421, published Oct. 13, 1953.
Soap shaving cream. Nyal Company. 195,247, Feb. 17, 1925. Republished Jan. 5.

CLASS 52

Cleaner, degreaser, etc., Concentrated heavy-duty. B. S. Price. 584,291, Jan. 5; Serial No. 633,555, published Oct. 6, 1953.
Cleaning fluids and soap. Kali Manufacturing Co. 584,274, Jan. 5; Serial No. 625,314, published Oct. 6, 1953.
Detergents and ingredients thereof. Ultra Chemical Works Inc. 584,322, Jan. 5; Serial No. 638,985, published Oct. 13, 1953.
Sanitizer, Toilet bowl. Hysan Products Company. 584,327, Jan. 5; Serial No. 639,756, published Oct. 13, 1953.
Shampoo. The Procter & Gamble Company. 584,364, Jan. 5; Serial No. 643,787, published Oct. 6, 1953.
Soap, Liquid. West Disinfecting Company. 584,272, Jan. 5; Serial No. 625,165, published Sept. 30, 1952.

CLASS 100

Establishment and maintenance of membership in a national patriotic organization and furthering the ideals thereof. The Liberty Belles Incorporated. 584,416, Jan. 5; Serial No. 640,746, published Sept. 29, 1953.

CLASS 101

Merchandising service. Thrifty Stamp Co. 584,411, Jan. 5; Serial No. 639,794, published Sept. 29, 1953.
Promoting sales of clients' merchandise. Gold Bond Stamp Company. 584,413, Jan. 5; Serial No. 641,720, published Sept. 29, 1953.
Services comprising selling for others various goods as agent. McMillen-Stanley Sales Corporation. 584,410, Jan. 5; Serial No. 638,594, published Sept. 29, 1953.

CLASS 103

Compaction of soils for foundation and construction purposes. S. Steuerman. 584,407, Jan. 5; Serial No. 631,222, published Oct. 6, 1953.
Television installation and repair services. Central Television Service Inc. 584,408, Jan. 5; Serial No. 634,631, published Oct. 6, 1953.

CLASS 105

Transportation of cargo and passengers by aircraft. Southwest Airways Company. 584,412, Jan. 5; Serial No. 641,216, published Sept. 29, 1953.

CLASS 106

Applying a glazed finish which endures through repeated laundering to fabrics furnished by others. Sayles Finishing Plants, Inc. 584,409, Jan. 5; Serial No. 636,036, published Oct. 6, 1953.
Electroplating new and re-electroplating used tips of electrically heated welding and soldering devices. Electro-Lab Processes, Inc. 584,415, Jan. 5; Serial No. 623,505, published Oct. 13, 1953.

CLASS 107

Informational service rendered through the medium of a radio and television program. New York Herald Tribune Inc. 584,414, Jan. 5; Serial No. 643,972, published Oct. 13, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 5TH DAY OF JANUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Brown, John W., Westport, Conn., assignor to Gunderson-Taylor Machinery Company, Denver, Colo. Backfill tamper. Re. 23,763, Jan. 5.

Gunderson-Taylor Machinery Company, assignee: *See*— Brown, John W.

McCanna, Louis A.: *See*— Pauley, Robert D., and McCanna.

Miller, Herman, assignor to Miller Laundry Machinery Co., Detroit, Mich. Washing machine of the cylindrical container, end discharge type. Re. 23,764, Jan. 5.

Miller Laundry Machinery Co., assignee: *See*— Miller, Herman.

Pauley, Robert D., Tacoma, and L. A. McCanna, Spokane, assignors to Weyerhaeuser Timber Company, Longview, Wash. Apparatus for removing bark from logs. Re. 23,765, Jan. 5.

Weyerhaeuser Timber Company, assignee: *See*— Pauley, Robert D., and McCanna.

LIST OF PLANT PATENTEES

Descanso Distributors, Inc., assignee: *See*— Lammerts, Walter E.

Lammerts, Walter E., assignor to Descanso Distributors, Inc., La Canada, Calif. Lilac plant. 1,238, Jan. 5.

Lammerts, Walter E., assignor to Descanso Distributors, Inc., La Canada, Calif. Rose plant. 1,239, Jan. 5.

LIST OF DESIGN PATENTEES

Barnhart, A Baker, New York, N. Y. Pitcher or similar article. 171,241, Jan. 5.

Belf, Gaston A., and A. Lustig, New York, N. Y. Toolbox. 171,242, Jan. 5.

Bergman, Carl G., Detroit, Mich. Coin bank. 171,243, Jan. 5.

Bergstrom, Carl V., Santa Clara, Calif. Portable house. 171,244, Jan. 5.

Bernstein, Bernard, assignor to National Silver Company, New York, N. Y. Spoon or similar article of flatware. 171,245, Jan. 5.

Carlson, Alban J., Sherman Oaks, Calif. Cribbage board or similar article. 171,246, Jan. 5.

Charnota, John, Chicago, Ill. Cigarette lighter holder. 171,247, Jan. 5.

Chicago Coin Machine Co., assignee: *See*— Koci, Jerry C.

Cimillo, Raymond P., Bronx, N. Y. Set of chessmen or similar article. 171,248, Jan. 5.

Courtney, Orley R., Pontiac, Mich. Cowl for a motorcycle front wheel or similar article. 171,249, Jan. 5.

Courtney, Orley R., Pontiac, Mich. Cowl for a motorcycle rear wheel or similar article. 171,250, Jan. 5.

Courtney, Orley R., Pontiac, Mich. Motorcycle body. 171,251, Jan. 5.

De Lebecque, Natalie, Beverly Hills, Calif. Utensil lid. 171,252, Jan. 5.

Gehring, Otto C., Montgomeryville, Pa. Stocking. 171,253, Jan. 5.

Gehring, Otto C., Montgomeryville, assignor to Lexington Hosiery Company, Inc., Hatfield, Pa. Stocking. 171,254, Jan. 5.

Gemex Company, assignee: *See*— Sand, John F.

Gessinger, Alfred R.: *See*— Rose, Werner P., and Gessinger.

Holbrook, Charles F., Harlingen, Tex. Insecticide vaporizer. 171,255, Jan. 5.

Hopkins, Richard E., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Water shooting toy gun. 171,256, Jan. 5.

Johnson, Warren A.: *See*— Peterson, Ulman B., and Johnson.

Kairalla, Eleanor, New York, N. Y. Waistcoat. 171,257, Jan. 5.

Kay, Stanley W., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Railway car body. 171,258, Jan. 5.

Kennedy, Bert, Johnstown, N. Y. Glove. 171,259, Jan. 5.

Kittner, Harry, New York, N. Y., assignor to David Traum Company, Inc. Knitting bag or similar article. 171,260, Jan. 5.

Koci, Jerry C., Barrington, assignor to Chicago Coin Machine Co., Chicago, Ill. Skill testing game device. 171,261, Jan. 5.

Lexington Hosiery Company, Inc., assignee: *See*— Gehring, Otto C.

Lotter, Georg, Neustadt Aisch, Germany. Drawing instrument. 171,262, Jan. 5.

Lustig, Arthur: *See*— Belf, Gaston A., and Lustig.

Marx, Louis, & Company, Inc., assignee: *See*— Hopkins, Richard E.

National Silver Company, assignee: *See*— Bernstein, Bernard.

Newlin, Oscar L., Wichita, Kans. Spectacle holder. 171,263, Jan. 5.

Peterson, Ulman B., Pasadena, and W. A. Johnson, Arcadia, Calif. Illuminated tweezers. 171,264, Jan. 5.

Phillips, Richard M., East Peoria, Ill. Chair. 171,265, Jan. 5.

Pullman-Standard Car Manufacturing Company, assignee: *See*— Kay, Stanley W.

Rose, Werner P., Oakland, and A. R. Gessinger, Ridgewood, N. J. Dyeing jig. 171,266, Jan. 5.

Rothe, Walter F., Washington, D. C. Cup. 171,267, Jan. 5.

Sand, John F., Newark, assignor to Gemex Company, Union, N. J. Expansible wrist watch bracelet. 171,268, Jan. 5.

Spuehler, Ernst A., Elgin, Ill. Bottle. 171,269, Jan. 5.

Sweeney, Robert M., Salisbury, Mo. Infant's spoon. 171,270, Jan. 5.

Traum, David, Company, Inc., assignee: *See*— Kittner, Harry.

Trossi, Domenico, Torino, Italy. Projection microscope. 171,271, Jan. 5.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 5TH DAY OF JANUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aarvold, Reinhardt O., assignor to Aktiebolaget Gotaverken, Goteborg, Sweden. Operating device for hold hatches. 2,664,947, Jan. 5.

Acme Industries, Inc., assignee: *See*—
Newton, Alwin B.

Adams, Thomas O., Jr., New Philadelphia, Ohio, assignor to Joy Manufacturing Company. Adjustable blade fan. 2,665,055, Jan. 5.

Addressograph-Multigraph Corporation, assignee: *See*—
Janko, Edward J.

Adler, Paul, New York, N. Y. Device for the indication of the fertility period of women. 2,665,062, Jan. 5.

Aeschlimann, John A., Montclair, and A. Stempel, River Edge, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Heterocyclic antituberculous compounds. 2,665,279, Jan. 5.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Clark, Frederick E., and Feustel.
Ratchford, William P.

Ahlborn, Clarence E., assignor to Jackson & Church Company, Saginaw, Mich. Pulp press. 2,664,814, Jan. 5.

Aileen Mills Company, assignee: *See*—
Riddle, Frank W.

Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Seeler, Henry.

Akey, Robert R., assignor to Joseph Behr & Sons, Inc., Rockford, Ill. Cold header. 2,664,579, Jan. 5.

Aktiebolaget A. Ekstroms Maskinaffar, assignee: *See*—
Bromm, Bror O.

Aktiebolaget Elektrolux, assignee: *See*—
Backstrom, Sigurd M.
Warmon, Nils M.

Aktiebolaget Gotaverken, assignee: *See*—
Aarvold, Reinhardt O.

Aladdin Industries, Incorporated, assignee: *See*—
Brumming, Carl.

Alexander, Carl Z., Madison, N. J. Steam boiler. 2,664,861, Jan. 5.

Allegheny Ludlum Steel Corporation, assignee: *See*—
Herres, Schuyler A.
Klaybor, Leonard V.

Allen, Edwin L., Cleveland Heights, assignor, by mesne assignments, to R. I. Schonitzer, Cleveland, Ohio. Door control mechanism. 2,665,156, Jan. 5.

Allen, Edwin L., Cleveland Heights, assignor, by mesne assignments, to R. I. Schonitzer, Cleveland, Ohio. Door control mechanism. 2,665,159, Jan. 5.

Allen & Hanburys Limited, assignee: *See*—
Campbell, Norman R., Fitzgerald, and Collier.

Allen, James G., Ubly, Mich. Door holder and buffer. 2,664,590, Jan. 5.

Allen, Sidney, and E. G. D. Andrews, assignors to Armstrong Siddeley Motors Limited, Coventry, England. Combustion equipment of rocket motors. 2,664,701, Jan. 5.

Alles, John J., Wilkes-Barre, Pa. Circuit controller. 2,665,417, Jan. 5.

Allied Chemical & Dye Corporation, assignee: *See*—
Baker, Theodore C.
Congdon, William J., and Grossmann.
Congdon, William J., and Weston.
Eck, John C.
Hatcher, David B.
Howald, Arthur M.
Ingraham, Harold O. C., and Sundy.
Lisk, George F.
Simons, John K.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Norelius, Emil F., Toth, and Rinkema.
O'Harrow, Charles T.

Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Arvidsson, Algot, Elmlund, and Sonesson.
Dreyfus, Ludwig.
Forwald, Haakon.

Almatic Corporation of America, assignee: *See*—
Zitomer, Abe.

American Can Company, assignee: *See*
Socke, John E.

American Electrical Heater Company, assignee: *See*—
Thomas, Laurence H.

American Hardware Corporation, The, assignee: *See*—
Vahlstrom, Carl A., and Walther.

American Home Products Corporation, assignee: *See*—
Bruce, William F., and Seifter.

American Junior Aircraft Company, assignee: *See*—
Walker, Neville E.

American Laundry Machinery Company, The, assignee: *See*—
Neckel, Edmund N.

American Lava Corporation, assignee: *See*—
Thurnauer, Hans, and Murray.

American Manufacturing Company, Inc., assignee: *See*—
Pierce, Alfred F.

American Metal Company, Limited, The, assignee: *See*—
Bahney, Luther W.

American Safety Razor Corporation, assignee: *See*—
Ottomano, Mario W.

American Smooth Saw Co., assignee: *See*—
Ferrari, Ernest R.

American Viscose Corporation, assignee: *See*—
Cox, Charles W.
Shontz, William H.

Ammco Tools, Inc., assignee: *See*—
Billeter, Henry R.

Amperex Electronic Corporation, assignee: *See*—
Bleeksma, Jan.

Amundsen, Paul L., and W. A. Osip, assignors, by mesne assignments, to Parker Rust Proof Company, Detroit, Mich. Coating process with alkali metal phosphate and added fluoride salt. 2,665,231, Jan. 5.

Anderson, Arthur R., assignee: *See*—
Schmidt, Ernst O.

Anderson, David E., assignor to Thompson Products, Inc., Cleveland, Ohio. Supplemental fuel feed device. 2,664,871, Jan. 5.

Anderson, Gordon C., Biddeford, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Textile balling machine. 2,664,594, Jan. 5.

Anderson, James R., London, England. Propeller-jet propulsion system for aircraft. 2,665,082, Jan. 5.

Andrews, Edward G. D.: *See*—
Allen, Sidney, and Andrews.

Andrews, Fred W., assignor to International Latex Corporation, Dover, Del. Bathing cap. 2,664,569, Jan. 5.

Andrews, Leonard W., London, assignor to Murex Limited, Rainham, England. Adjustable die. 2,664,996, Jan. 5.

Anstalt für die Entwicklung von Erfindungen und Gewerblichen Anwendungen "Energa," assignee: *See*—
Brandt, Edgar W.

Antoski, Arnold J., St. Paul, Minn., assignor of fifty percent to B. S. Phillips, Myron, Ark. Book matches and cover therefor. 2,665,000, Jan. 5.

Ardis, Alan E., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Stabilized compositions comprising monomeric 1,1-dicyano ethylene. 2,665,298, Jan. 5.

Ardis, Alan E., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Stabilized compositions comprising monomeric 1,1-dicyano ethylene. 2,665,299, Jan. 5.

Arey, Ralph G., assignor to Ward Machine Company, Inc., Brockton, Mass. Crimping tool. 2,664,772, Jan. 5.

Argus Cameras, Inc., assignee: *See*—
Wilkinson, Leonard A.

Armstrong, Lowell, and L. B. Willoughby, Louisville, R. C. P. Morton, Prospect, and H. How, Louisville, Ky., assignors, by mesne assignments, to Pillsbury Mills, Inc. Machine for forming and packing blanks of dough. 2,664,833, Jan. 5.

Armstrong Siddeley Motors Limited, assignee: *See*—
Allen, Sidney, and Andrews.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Hale, Frank B.
Rennie, Elwood, and Hyde.

Arnold, George B.: *See*—
Truitt, James K., and Arnold.

Arnold, John H., Summit, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y. Catalytic synthesis of hydrocarbons. 2,665,289, Jan. 5.

Arthur, Richard P.: *See*—
Bellamy, John I., and Arthur.

Artzt, William W., New Rochelle, N. Y. Wearing apparel with stretchable circumferential insets. 2,664,570, Jan. 5.

Arvidsson, Algot Saltsjobaden, H. Elmlund, Vasteras, and G. Sonesson, Enskede, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Means for controlling the candle power of luminous tubes. 2,665,394, Jan. 5.

Ashton, Albert A., Houston, Tex., assignor to Emsco Manufacturing Company, Los Angeles, Calif. Direct air friction cathead. 2,665,112, Jan. 5.

Asplund, Arne J. A., Stockholm, Sweden. Fibrous filter sheet for gases. 2,664,964, Jan. 5.

Asta-Werke Aktiengesellschaft, Chemische Fabrik, assignee: *See*—
Brock, Norbert, Kühas, and Schmeisser.

Atkinson, Ralph W., Westfield, N. J., and M. H. McGrath, assignors to General Cable Corporation, New York, N. Y. Oil-impregnated electric power cable with flow-limiting tapes. 2,665,328, Jan. 5.

Atlantic Refining Company, The, assignee: *See*—
Bilhartz, Harrell L., and Greenwell.

Atlas Powder Company, assignee: *See*—
Barker, George E.

Attapulgus Minerals and Chemicals Corporation, assignee: *See*—
Buffett, John B.

Attias, Isidor, Long Beach, N. Y. Double bobby pin. 2,664,899, Jan. 5.

Attinger, Alvin J.: *See*—
Schmitt, Joy B., and Attinger.

Augustine, Frederick B., Jefferson, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Diesters of dithiophosphoric acids and terpenes. 2,665,295, Jan. 5.

Austin Motor Company, Limited, The, assignee: *See*—
Weaving, John H., and Payne.

Automatic Electric Laboratories, Inc., assignee: *See*—
Lomax, Clarence E.

Automotive Design Company, assignee: *See*—
Kamm, Wunibald I. E.

Avery, Harold T., Oakland, Calif., assignor to Marchant Calculators, Inc. Binary-octal-decimal computer calculating machine. 2,665,070, Jan. 5.

Bachman, William S.: *See*—
Rhodes, Allen F., and Bachman.

Backstrom, Sigurd M., assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Absorption refrigeration system of the inert gas type. 2,664,717, Jan. 5.

Bahney, Luther W., Elizabeth, N. J., assignor to The American Metal Company, Limited, New York, N. Y. Inspection conveyer. 2,664,992, Jan. 5.

Bailey Meter Company, assignee: *See*—
Hornfeck, Anthony J.

Bailey, Perkins H., New York, N. Y., assignor to The William Carter Company, Needham Heights, Mass. Man's pouch-type brief. 2,664,889, Jan. 5.

Baker, Porter C., Nampa, Idaho. Automatic irrigation dam. 2,664,713, Jan. 5.

Baker, Theodore C., Toledo, Ohio, assignor, by mesne assignments, to Allied Chemical & Dye Corporation, New York, N. Y. Production of articles of high impact strength. 2,665,261, Jan. 5.

Baldwin, Jesse A., Ashland, Wis., assignor, by mesne assignments, to Reconstruction Finance Corporation, Denver, Colo. Manufacture of oil filters. 2,665,075, Jan. 5.

Balint, John: *See*—
Flora, Laurence H., and Balint.

Ballantine, James S., Absecon, N. J. Sectional chip breaker. 2,664,931, Jan. 5.

Balton, James, assignor to Maryland Baking Company, Inc., Baltimore, Md. Apparatus for forming edible receptacles. 2,664,834, Jan. 5.

Bancel, Paul A., Montclair, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Dual automatic control for compressors. 2,665,053, Jan. 5.

Banck, Robert A., assignor to Bigelow-Liptak Corporation, Detroit, Mich. Suspended furnace arch. 2,664,837, Jan. 5.

Barker, George E., assignor to Atlas Powder Company, Wilmington, Del. Solid compositions containing polyoxyethylene ethers and urea. 2,665,256, Jan. 5.

Barker, John, Centralia, Ill. Portable cooking device. 2,664,876, Jan. 5.

Barker, John P.: *See*—
Wilkinson, Joseph M., Jr., and Barker.

Barr, Elizabeth A., Okemah, Okla. Plate for serving pie. 2,664,722, Jan. 5.

Bartels, Karl H., assignee: *See*—
Schroeder, Paul.

Bartholomae, Heinrich, Herne, assignor, by mesne assignments, to Firma Dipl.-Ing. Friedrich Heinrich Flottmann, Bochum, Germany. Drill bit remover. 2,664,621, Jan. 5.

Bartow Beacons Inc., assignee: *See*—
Bartow, John B.

Bartow, John B., assignor to Bartow Beacons Inc., Blue Bell, Pa. Ray directing device. 2,665,387, Jan. 5.

Barz, Joseph J., assignor to Star Sprinkler Corporation, Philadelphia, Pa. Sprinkler head. 2,664,956, Jan. 5.

Bassett, William E., Woodbridge, Conn. Nail clipper. 2,664,624, Jan. 5.

Bassinger, Ross, New Braunfels, Tex. Percussion tool for wells. 2,665,115, Jan. 5.

Bates, John R., Swarthmore, assignor to Sun Oil Company, Philadelphia, Pa. Electrostatic sludge precipitation. 2,665,246, Jan. 5.

Batesville Casket Company, The, assignee: *See*—
Hillenbrand, George C., and Laugle.

Battles, Stewart S., Galesburg, Ill. Ornamental trim strip for cabinet tops. 2,665,183, Jan. 5.

Baumann, Martin, and N. M. Sider, Chicago, Ill., assignors to International Paper Company, New York, N. Y. Shipping package. 2,665,002, Jan. 5.

Baumann, Martin, Chicago, Ill., assignor to International Paper Company, New York, N. Y. Shipping container. 2,665,050, Jan. 5.

Baxter, Don, Inc., assignee: *See*—
Putz, Rodney B.

Beach, Earl F.: *See*—
Edwards, Andrew W., and Beach.

Bean, Samuel, assignee: *See*—
Dickman, Jacob I.

Beasley, Allen G., assignor to C. W. Beasley, Spokane, Wash. Expansion tool. 2,664,620, Jan. 5.

Beasley, Charley W., assignee: *See*—
Beasley, Allen G.

Beau-T-Form Foundations, Inc., assignee: *See*—
Sutter, Edward R.

Beck, Harold D., Caledonia, Ill. Tire chain connector. 2,664,608, Jan. 5.

Becker, John E., Darlington Township, Durham County, Ontario, Canada. Rotary, torodial chamber type hydraulic coupling and fluid circulating controls therefor. 2,664,704, Jan. 5.

Becker, John E., Darlington Township, Durham County, Ontario, Canada. Filling and emptying fluid control means for rotary hydraulic couplings. 2,664,705, Jan. 5.

Becker, John E., Darlington Township, Durham County, Ontario, Canada. Rotary, toroidal chamber type hydraulic coupling and fluid circulating controls therefor. 2,664,706, Jan. 5.

Behr, Joseph, & Sons, Inc., assignee: *See*—
Akey, Robert R.

Bell & Howell Company, assignee: *See*—
Weninger, Frank L.

Bell, William C., London, and V. A. G. Curry, Greenford, assignors to Hoover (Washing Machines) Limited, Perivale, England. Clothes-washing machine. 2,664,730, Jan. 5.

Bellamy, John I., Wheaton, and R. P. Arthur, Chicago, Ill., assignors, by mesne assignments, to International Telephone and Telegraph Corporation. Contact-spring switch assembly. 2,665,352, Jan. 5.

Beller, Hans, Cranford, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Polymerization of N-vinyl lactams. 2,665,271, Jan. 5.

Belsinger, Inc., assignee: *See*—
Belsinger, Jack R.
Belsinger, Samuel P.

Belsinger, Jack R., assignor to Belsinger, Inc., Atlanta, Ga. Shipping container for heavy bulk merchandise. 2,665,047, Jan. 5.

Belsinger, Samuel P., assignor to Belsinger, Inc., Atlanta, Ga. Heavy-duty fiber container. 2,665,048, Jan. 5.

Bendix Aviation Corporation, assignee: *See*—
Moog, Arthur E., and Perkins.
Orban, Stephen G.
Teague, Walter D., Jr.

Bennett, Rufus B., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Recovery of durene. 2,665,316, Jan. 5.

Benoit, Edmond, assignor to Office National d'Etudes et de Recherches Aeronautiques (O. N. E. R. A.), Paris, France. Jet propelled aircraft tail unit. 2,664,700, Jan. 5.

Benson, Bernard S., Malibu, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Rotary switch device. 2,665,343, Jan. 5.

Benton Harbor Engineering Works, Inc., assignee: *See*—
Miller, Robert C.

Berg, Abram S., and A. N. Goreglad, Wyncote, Pa. Pipe fastening means. 2,665,146, Jan. 5.

Berger, Kornel, Kew Gardens, N. Y. Lamp harp. 2,665,374, Jan. 5.

Berghe, Georges J. L. V., and P. J. F. Schaefer, assignors to Societe Anonyme de Distribution du Gaz (Distrigaz), Brussels, Belgium. Chronocounter for measuring output of fluids. 2,665,186, Jan. 5.

Berndt, Arthur A., assignor to Electroline Company, Chicago, Ill. Connector for stranded cable. 2,665,331, Jan. 5.

Besch, Edmund S., Orchard Park, N. Y. Sportsman's seat. 2,664,939, Jan. 5.

Best, Albert M., assignor to Sperry Corporation, New Holland, Pa. Livestock feeder. 2,665,015, Jan. 5.

Beste, George W., Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y. Casting sodium-lead alloys. 2,664,605, Jan. 5.

Bethea, Jasper D., Silver Creek, assignor of one-third to W. R. Bethea, Jackson, and one-third to C. E. Hill, Silver Creek, Miss. Automatic portable sawmill. 2,664,928, Jan. 5.

Bethea, William R., assignee: *See*—
Bethea, Jasper D.

Bickley, Everett H., Pen Valley, Pa. Scanning mechanism for color sorting machines. 2,665,388, Jan. 5.

Bigelow-Liptak Corporation, assignee: *See*—
Banck, Robert A.

Bilhartz, Harrell L., and H. E. Greenwell, Dallas, Tex., assignors to The Atlantic Refining Company, Philadelphia, Pa. Holder for corrosion testing coupons. 2,664,744, Jan. 5.

Billeter, Henry R., Highland Park, assignor to Ammco Tools, Inc., North Chicago, Ill. Connecting rod alignment gauge. 2,664,643, Jan. 5.

Bird & Son, inc., assignee : *See*—
Koval, John P.

Birdwell, Gus O., Perryton, Tex. Vehicle hitch. 2,665,144, Jan. 5.

Bjerre, Folmar I., Hamburg, N. Y. Machine lubricator. 2,664,969, Jan. 5.

Bjorklund, Tex, Venice, Calif. Firearm trigger lock. 2,664,658, Jan. 5.

Blackburn and General Aircraft Limited, assignee : *See*—
Crocombe, Frederick F., and Hill.

Blackburn, Luther A., Eagle Rock, Calif. Foam pressure balanced walking beam type oil well pumping jack. 2,664,764, Jan. 5.

Blackford, Donald E., Plymouth, assignor to Lincoln Brass Works, Inc., Detroit, Mich. Valve for controlling flow of gas to burners. 2,665,107, Jan. 5.

Blaw-Knox Company, assignee : *See*—
Harcourt, Guy N.

Blaxland Rae Pty. Limited, assignee : *See*—
Rae, John.

Bleeksma, Jan, Mount Vernon, assignor to Amperex Electronic Corporation, Brooklyn, N. Y. X-ray tube having a mica window. 2,665,391, Jan. 5.

Blevens, Emmett, Louisville, Ky. Artificial limb. 2,664,572, Jan. 5.

Blomquist, Uno O., Vasteras, Sweden. Regenerative heat exchanger. 2,665,120, Jan. 5.

Bocciarelli, Carlo V., assignor to Philco Corporation, Philadelphia, Pa. Deflecting and high voltage supply circuit. 2,665,393, Jan. 5.

Boinet, Ernest : *See*—
Boinet, Henri and E.

Boinet, Henri, and E., Saint-Quentin, France. Rubberized broom fiber fabric. 2,665,222, Jan. 5.

Bolsey, Jacques, New York, N. Y. Camera body construction. 2,664,798, Jan. 5.

Bonannno, Joseph L., Madison, and A. D. Gash, Jr., Irvington, N. J., assignors to The Lionel Corporation, New York, N. Y. Toy for handling toy merchandise. 2,664,664, Jan. 5.

Booth, Henry, Methods Corporation, The, assignee : *See*—
Waller, Fred.

Booth, James H., Venice Township, Shiawassee County, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Antifriction gear assembly. 2,664,760, Jan. 5.

Borg, George W., Corporation, The, assignee : *See*—
Van Alen, De Witt T., and Foote.

Borg-Warner Corporation, assignee : *See*—
Hubacker, Earl F., and Tarleton.
Kelbel, Donald W.

Borgerd, William F., Evansville, Ind., assignor to International Harvester Company. Control valve for spray systems. 2,664,715, Jan. 5.

Borgerd, William F., Evansville, Ind., assignor to International Harvester Company. Wall mounted console type air conditioning apparatus. 2,664,720, Jan. 5.

Boulter, Raymond A. : *See*—
Lloyd, Peter, Shilling, Brown, and Boulter.

Bourner, Howard L., assignor to Temco, Inc., Nashville, Tenn. Drying apparatus. 2,664,646, Jan. 5.

Boyd, Winnett, Bobcaygeon, Ontario, R. G. Meschino, Toronto, Ontario, and K. W. Jay, Weston, Ontario, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada. Flow distributor valve. 2,664,910, Jan. 5.

Boyle-Midway Inc., assignee : *See*—
Cameron, Joseph W.

Böyng, Augnst : *See*—
Steinacker, Peter, and Böyng.

Brace, George A., Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio. Nozzle construction for suction cleaners. 2,664,588, Jan. 5.

Brackett, Spencer A. : *See*—
Green, Robert H., and Brackett.

Bradley, Theodore F., Oakland, assignor to Shell Development Company, San Francisco, Calif. Sizing of fibrous materials and compositions useful for sizing and for other purposes. 2,665,206, Jan. 5.

Brainard, Maurice W., assignor of one-half to O'Keefe & Merritt Company, Los Angeles, Calif. Dry plate type rectifier. 2,665,334, Jan. 5.

Brainard, Maurice W., assignor of one-half to O'Keefe & Merritt Company, Los Angeles, Calif. Dry plate type rectifier. 2,665,398, Jan. 5.

Bramming, Carl, Anderson, Ind., assignor to Aladdin Industries, Incorporated, Nashville, Tenn. Hydrocarbon fuel burner. 2,664,729, Jan. 5.

Brandt, Edgar W., Geneva, Switzerland, assignor to Anstalt für die Entwicklung von Erfindungen und Gewerblichen Anwendungen "Energa", Vaduz, Liechtenstein. Sight for rocket launchers. 2,664,635, Jan. 5.

Bramlck, Charles E., Fargo, N. Dak. Combination tire spreader and tire-lifting hoist therefor. 2,665,108, Jan. 5.

Brantingham, Paul T., Fort Wayne, Ind., assignor to International Harvester Company. Bearing. 2,665,176, Jan. 5.

Brennan, Joseph B., Bratenahl, Ohio, assignor to E. D. McCurdy, trustee. Closure and terminal seal for electrolytic devices. 2,665,329, Jan. 5.

Bright, Thomas J. R., Blackdown, near Leamington Spa, England. Draught excluding strip. 2,664,602, Jan. 5.

Brink, Frank, and J. E. Star, Corsica, S. Dak. Posthole boring machine. 2,665,116, Jan. 5.

Bristol, Carlton W., Naugatuck, assignor to The Bristol Company, Waterbury, Conn. Apparatus for measuring absolute pressure. 2,664,917, Jan. 5.

Bristol Company, The, assignee : *See*—
Bristol, Carlton W.

Brock, Edward P., Melrose, Mass. Boiler blow-off and sewer protection. 2,664,909, Jan. 5

Brock, Norbert, Brackwede, E. Kilhas, Gadderbaum, and M. Schmeisser, Munich, assignors to Asta-Werke Aktiengesellschaft, Chemische Fabrik, Brackwede, Westphalia, Germany. N-alkylation of phenylaminoacetic acid esters. 2,665,300, Jan. 5.

Brodhacker, John W., U. S. Navy, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Noncaking feed supplement. 2,665,209, Jan. 5.

Brogan, Emmett V. : *See*—
Cutliff, Norman J., and Brogan.

Broman, Bror O., Stora Essingen, Stockholm, Sweden. Method and apparatus for cleaning gas-swept heating surfaces. 2,665,119, Jan. 5.

Broman, Bror O., Stora Essingen, assignor to Aktiebolaget A. Ekstroms Maskinaffar, Stockholm, Sweden. Apparatus for cleaning gas swept heating surfaces. 2,665,118, Jan. 5.

Brooks, Marvin C., Packanack Lake, and E. C. Ladd, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y. Compounding butyl rubber. 2,665,264, Jan. 5.

Brophy, James N., assignor, by mesne assignments, to R. C. Brophy, Wakefield, Mass. Fish scaling machine. 2,664,591, Jan. 5.

Brophy, Ruth C., assignee : *See*—
Brophy, James N.

Brown Company, assignee : *See*—
Cook, Ernest P.

Brown, Forrest W., Darien, Conn., assignor to The Reflectone Corporation. Moving target generating device. 2,664,754, Jan. 5.

Brown, George T., Jr., assignor to The National Cash Register Company, Dayton, Ohio. Hand stamp device. 2,664,820, Jan. 5.

Brown John : *See*—
Lloyd, Peter, Shilling, Brown, and Boulter.

Brown, William E., Roaring Springs, Tex. Cotton stripper with moving comb. 2,664,687, Jan. 5.

Bruce, William F., Havertown, and J. Seifter, Willow Grove, Pa., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y. Substituted glycinamides. 2,665,309, Jan. 5.

Bruestle, Carl O., Metuchen, assignor to Syncro Machine Company, Perth Amboy, N. J. Split cradle for tubular stranding machines. 2,664,693, Jan. 5.

Brumbaugh, Chester C., Painesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Obtaining anhydrous hydrogen chloride. 2,665,240, Jan. 5.

Brunn, Robert B. J., Manhasset, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Pulse-signal translating system. 2,665,378, Jan. 5.

Brunswick-Balke-Collender Company, The, assignee : *See*—
Schlafender, Otto.

Bruscini, Marcel : *See*—
Di Chiara, Vincent J., and Bruscini.

Buckwalter, Howard M., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Protection of tire cellulose fiber against heat aging. 2,665,230, Jan. 5.

Buffett, John B., Media, assignor to Attapulgus Minerals and Chemicals Corporation, Philadelphia, Pa. Absorbent and preparation thereof. 2,665,259, Jan. 5.

Burbeck, Donald W., Los Angeles, Calif., assignor to Hughes Tool Company, Houston, Tex. Method and apparatus for automatically measuring time intervals. 2,665,410, Jan. 5.

Burgess, Arthur R., Welwyn Garden City, England, assignor to Imperial Chemical Industries Limited. Synthetic resin compositions having improved light stability. 2,665,265, Jan. 5.

Burroughs, Halbert P., Seattle, Wash Toy balloon holder. 2,664,667, Jan. 5.

Burton, Henry, Gardena, Calif. Relay. 2,665,345, Jan. 5.

Butler, John M., Centerville, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Vulcanization of rubber. 2,665,268, Jan. 5.

Button, Charles T. : *See*—
Durbin, Vernon, and Button.

C. D. Patents Limited, assignee : *See*—
Foster, David B., and Norman.

Cabot, Godfrey L., Inc., assignee : *See*—
Jordan, Merrill E.

Cahen, Roger, assignor to La Radio Industrie, Paris, France. Stereoscopic television method and apparatus. 2,665,335, Jan. 5.

Cain, Farrell O., assignor of one-half to H. O. Cain, Geneva, Ala. Pivoted metal-working hammer. 2,664,773, Jan. 5.

Cain, Hardy O., assignee : *See*—
Cain, Farrell O.

Caine, Walter J. : *See*—
Darner, Frederic M., and Caine.

Calgon, Inc., assignee : *See*—
Roland, Charles T.

California Packing Corporation, assignee : *See*—
Gibson, William.

Call, Howard L., Ogden, Utah. Centrifugal extractor. 2,665,008, Jan. 5.

Cameron, Joseph W., assignor to Boyle-Midway Inc., Chicago, Ill. Positioning device for stapling machines. 2,664,562, Jan. 5.

Campbell, Charles R., Jr., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Hide and skin tensioning machine employing feed rolls. 2,664,733, Jan. 5.

Campbell, Erwin A. : *See*—
Woolslayer, Homer J., Jenkins, Iddings, and Campbell.

Campbell, Norman R., Hertford, M. E. H. Fitzgerald, Shirley, Croydon, and H. O. J. Collier, Hoddesdon, assignors to Allen & Hanburys Limited, London, England. 2,4-diamino-7,8-disubstituted pteridines. 2,665,275, Jan. 5.

Campion, George H., Abbeville, La. Center spray portable dishwashing machine. 2,664,902, Jan. 5.

Capomacchio, Antimo : *See*—
Schiavulli, Rudolph, and Capomacchio.

Carlick, Daniel J., Roselle, N. J., assignor to Interchemical Corporation, New York, N. Y. Copolymers. 2,665,283, Jan. 5.

Carlick, Daniel J., Roselle, N. J., assignor to Interchemical Corporation, New York, N. Y. Copolymers. 2,665,284, Jan. 5.

Carlson, Ernest C. : *See*—
Huddle, Edwin F., and Carlson.

Carmichael, Thomas F., Plymouth, Mich. High power factor current limiter. 2,665,406, Jan. 5.

Carter Carburetor Corporation, assignee : *See*—
Ericson, George R., and Coffey.

Carter, Ralph B., Company, assignee : *See*—
Carter, Ralph B., Jr.

Carter, Ralph B., Jr., Maywood, assignor to Ralph B. Carter Company, Hackensack, N. J. Flocculation mechanism. 2,665,248, Jan. 5.

Carter, Sidney T., Worcester, Mass., assignor to Geo. J. Meyer Manufacturing Co., Cudahy, Wis. Multiple-wiper mechanism for labeling machines. 2,665,025, Jan. 5.

Carter, William, Company, The, assignee : *See*—
Bailey, Perkins H.

Case, J. I., Company, assignee : *See*—
Russell, Stanley D.

Cataldo, Anthony M., Ellwood City, Pa., assignor to United States Steel Corporation. Gauge for internal upsets. 2,664,637, Jan. 5.

Catford, Adrian L., Hampton, and R. H. D. Chamberlin, Ealing, London, assignors to D. Napier & Son Limited, London, England. Control system for aircraft propulsion power plants, including a reciprocating internal-combustion engine and an exhaust driven turbine. 2,664,957, Jan. 5.

Chadsey, Earl E., Jr. : *See*—
Clough, Philip J., and Chadsey.

Chadsey, Earl E., Jr., Newton, P. J. Clough, Reading, and P. Godley, 2nd., Lexington, assignors to National Research Corporation, Cambridge, Mass. Metal vaporizing crucible. 2,665,320, Jan. 5.

Chadsey, Earl E., Jr., Newton, assignor to National Research Corporation, Cambridge, Mass. Vapor coating apparatus. 2,664,852, Jan. 5.

Chamberlin, Reginald H. D. : *See*—
Catford, Adrian L., and Chamberlin.

Chance, A. B., Company, assignee : *See*—
Sander, Vernon A.

Chase-Shawmut Company, The, assignee : *See*—
Kozacka, Frederick J.

Chobert, Jacques F. G., St. Etienne, France. Door lock. 2,664,736, Jan. 5.

Chollet, Philip E., Indianapolis, Ind. Power unit for tire inspection stands. 2,664,709, Jan. 5.

Christophersen, Clarence E., assignor to Marman Products Company, Inc., Los Angeles, Calif. Axially tightening band clamp. 2,665,094, Jan. 5.

Cier, Harry E., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Treatment of sulfonyl chlorides. 2,665,305, Jan. 5.

Cincinnati Milling Machine Co., The, assignee : *See*—
Plimmer, Alfred G.
Roehm, Erwin G.

Circle X Antenna Corporation, assignee : *See*—
Hickson, William F., and McGough.

Cities Service Oil Company, assignee : *See*—
Hatfield, James R.
Wilike, Louis G., Malm, and Malakoff.

Clarin, John H., Oak Park, assignor to Clarin Mfg. Co., Chicago, Ill. Chair and tablet arm assembly. 2,664,943, Jan. 5.

Clarin Mfg. Co., assignee : *See*—
Clarin, John H.

Clark Equipment Company, assignee : *See*—
Dunham, Elmer J.
Turner, George L.
Wight, Delano, Jr.

Clark, Frank W., Rockfall, Conn., and R. T. Stolze, Fort Lauderdale, Fla., said Clark assignor to R. J. Hood, doing business as Eastern Tool Company, East Hartford, Conn. Dressing diamond wheels. 2,664,681, Jan. 5.

Clark, Frederick E., and I. C. Feustel, Salinas, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Treating rubber obtained from rubber-bearing plants. 2,665,317, Jan. 5.

Clark, George E. : *See*—
Thompson, Clarence S., and Clark.

Clark, John A., Cleveland, Ohio, assignor to The Reliance Electric and Engineering Company. Speed control circuit. 2,665,402, Jan. 5.

Clarke, Edward L., Scranton, Pa. Multiunit scaffold. 2,665,174, Jan. 5.

Clayton Dewandre Company Limited, assignee : *See*—
Edge, Stanley H.

Cleveland, William F., Rock Falls, Ill. Electric automatic stock and chicken waterer. 2,665,366, Jan. 5.

Cleverdon, Carlos C., assignee : *See*—
Jencks, Hollis W.

Clinedinst, William O., Pittsburgh, Pa. Foot binding for water skis and the like. 2,664,978, Jan. 5.

Clough, Philip J. : *See*—
Chadsey, Earl E., Jr., Clough, and Godley.
Godley, Philip, 2nd, Clough, and Stauffer.

Clough, Philip J., Reading, and E. E. Chadsey, Jr., Newton, assignors to National Research Corporation, Cambridge, Mass. Depositing an aluminum film on a substrate by thermal vaporization. 2,665,223, Jan. 5.

Clough, Philip J., Reading, and P. Godley, 2nd, Lexington, assignors to National Research Corporation, Cambridge, Mass. Vapor coating. 2,665,224, Jan. 5.

Clough, Philip J., Reading, and P. Godley, 2nd, Lexington, assignors to National Research Corporation, Cambridge, Mass. Apparatus and method of coating by vapor deposition. 2,665,227, Jan. 5.

Clover, Leonard W., San Jose, Calif. Landing wheel structure for aircraft. 2,665,087, Jan. 5.

Cluett, Peabody & Co., Inc., assignee : *See*—
Gannon, John J., Powell, and Fiscella.

Clyne, Aloysius R., New Dorp, N. Y. Motion limiting device. 2,664,768, Jan. 5.

Cochran, Andrew A. : *See*—
Homeyer, August H., De La Mater, and Cochran.

Cochrane, Ralph H., Sacramento, Calif. Panel wall joint. 2,664,740, Jan. 5.

Coffey, Irven E. : *See*—
Ericson, George R., and Coffey.

Coffman, Hurshel L., Clinton, Md. Orthopedic apparatus. 2,664,886, Jan. 5.

Colley, Arthur R., Birmingham, Ala. Safety brake system. 2,664,973, Jan. 5.

Collier, Henry O. J. : *See*—
Campbell, Norman R., Fitzgerald, and Collier.

Collins, H. L., assignee : *See*—
Fowler, Alvah W.

Collyer, John E., Coventry, and E. P. Fairbairn, Copsewood, Coventry, assignors to The General Electric Company Limited, London, England. Radio telephone system. 2,665,375, Jan. 5.

Commercial Solvents Corporation, assignee : *See*—
Brodhacker, John W.

Conbere, John P., Plainfield, assignor to Merck & Co., Inc., Rahway, N. J. Steroid pyridinium salts. 2,665,274, Jan. 5.

Congdon, William J., Hopewell, and C. F. Weston, Prince George County, Va., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Purification of waste gases containing chlorine by treatment with an alkaline nitrite solution to effect removal of the chlorine constituent therefrom. 2,665,190, Jan. 5.

Congdon, William J., Hopewell, and S. W. Grossmann, Petersburg, Va., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Chlorine from HCl. 2,665,195, Jan. 5.

Conley, Alvin M., Los Angeles, Calif. Hydraulic elevator descent control valve. 2,664,916, Jan. 5.

Conley, George D., Sweetwater, Tex. Beer can punch. 2,664,623, Jan. 5.

Conlogue, James : *See*—
McDonald, Edwin P., and Conlogue.

Continental Motors Corporation, assignee : *See*—
Walker, John L.
Wiseman, William A.

Cook, Ernest P., assignor to Brown Company, Berlin, N. H. Multilength continuous doctor blade. 2,664,792, Jan. 5.

Cook, Gordon H., assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Five component optical objective with the front three components forming a divergent combination. 2,664,783, Jan. 5.

Cooke, Joseph M. : *See*—
Leonard, Charles H., and Cooke.

Coppock, Walter J., Ridley Park, assignor to Sun Oil Company, Philadelphia, Pa. Oxidation inhibited mineral oil. 2,665,254, Jan. 5.

Corney, Harold D., Dumont, N. J., assignor to United States Rubber Company, New York, N. Y. Wrapped tire. 2,665,001, Jan. 5.

Courtney, Joseph F., Chicago, and A. C. Radtke, Oak Park, Ill., assignors to International Harvester Company. Receiving mechanism for drawn glass strands. 2,664,671, Jan. 5.

Cox, Charles W., St. Albans, W. Va., assignor to American Viscose Corporation, Wilmington, Del. Treating a running blanket of staple length artificial fibers. 2,665,189, Jan. 5.

Crandall, Roland E.: *See*—
Feeney, Thomas A., Glenn, Degenfelder, Crandall, and Ripley.

Crane Co., assignee: *See*—
Svubek, John E., Jr.

Crane, Harold C., Toronto, Ontario, Canada. Control for operating elevator systems. 2,664,971, Jan. 5.

Crocombe, Frederick F., Gerrard's Cross, England, and G. T. Hill, Londonderry, Northern Ireland, assignors to Blackburn and General Aircartf Limited, Brough, England. Selective dual aileron control for aircraft. 2,665,085, Jan. 5.

Cross, Walter M., Jr., assignor to Kansas City Testing Laboratory, Kansas City, Mo. Winning potassium chloride from underground deposits. 2,665,124, Jan. 5.

Culligan, Inc., assignee: *See*—
Hintz, Donald M.

Cummins, Rufus D., Harrodsburg, Ky. Tape tensioning attachment for sewing machines. 2,664,839, Jan. 5.

Cüppers, Paul K. A., assignor to Württembergische Metallwarenfabrik, Geislingen (Steige), Germany. Finishing of workpieces. 2,664,976, Jan. 5.

Curry, Victor A. G.: *See*—
Bell, William C., and Curry.

Curtis, Helene, Industries, Inc., assignee: *See*—
Nowakowski, Edward.

Custer, Willard R., Hagerstown, Md. Jet-propelled channel aircraft. 2,665,083, Jan. 5.

Cutler-Hammer, Inc., assignee: *See*—
Elliot, William H.
Pell, Eric.

Cutliff, Norman J., and E. V. Brogan, Louisville, Ky., assignors to International Harvester Company. Induction heating unit. 2,665,308, Jan. 5.

Cyr, Rob R., Los Angeles, Calif., assignor to The Regents of the University of California, Berkeley, Calif. Regulated low-voltage power supply. 2,665,405, Jan. 5.

Daimler-Benz Aktiengesellschaft, assignee: *See*—
Nallinger, Friedrich K. H.

Dancik, Paul J., Media, assignor to Piasecki Helicopter Corporation, Morton, Pa. Throttle control and pitch synchronizing device. 2,664,958, Jan. 5.

Darby, Paul F.: *See*—
Evans, Richard E., Darby, and Owen.

Darlington, Thomas B., Whitesbog, N. J. Picker for cranberries and the like. 2,664,692, Jan. 5.

Darner, Frederic M., Shaker Heights, and W. J. Caine, Cleveland Heights, assignors to Republic Steel Corporation, Cleveland, Ohio. Manufacture of pipe. 2,665,362, Jan. 5.

Darr, Barnett A., Quincy, Calif. Auxiliary brake cam rod latch adjuster. 2,664,975, Jan. 5.

Davidson, Hugh R., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Computer for integrating tristimulus values. 2,665,065, Jan. 5.

Davis, Frank E., Louisville, Ky. Casket. 2,664,614, Jan. 5.

Davison Chemical Corporation, The, assignee: *See*—
Ellis, Edward J.

Dean, Joseph, Harrogate, England. Traveling support for hank drying machines. 2,664,991, Jan. 5.

Dearborn Motors Corporation, assignee: *See*—
Miller, Raymond J.
Witt, Robert H.

De Cato, Theodore A., Bridgeport, Conn. Roller attachment for garden tractors. 2,664,683, Jan. 5.

Degenfelder, Walter B.: *See*—
Feeney, Thomas A., Glenn, Degenfelder, Crandall, and Ripley.

De Gier, Johannes, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Manufacturing luminescent screens. 2,665,220, Jan. 5.

De La Mater, George B.: *See*—
Homeyer, August H., De La Mater, and Cochran.

Denny, Caleb, West Los Angeles, Calif. Adjustable tolerance gauge. 2,664,639, Jan. 5.

Derby, Sealers, Incorporated, assignee: *See*—
Krueger, Alfred P.

Derringer, Pete O., assignor to Loose Leaf Metals Company, St. Louis, Mo. Die cast loose-leaf ring metal frame. 2,664,897, Jan. 5.

Des Rosiers, John B., Providence, R. I. Large volume multichamber tire. 2,664,935, Jan. 5.

Detrick, M. H., Company, assignee: *See*—
Sorensen, George C.

Detroit Coil Company, assignee: *See*—
Jencks, Hollis W.

Detroit Surfacing Machine Company, assignee: *See*—
Wickes, David R.

Deutsche Edelstahlwerke Aktiengesellschaft, assignee: Seulen, Gerhard W.

De Vilbiss Company, The, assignee: *See*—
Schmitt, Joy B., and Attinger.

De Vito, Angelo R., Cleveland Heights, assignor, by mesne assignments, to R. I. Schonitzer, Cleveland, Ohio. Door control mechanism. 2,665,157, Jan. 5.

Devorss, Joseph W., Jr., Scarsdale, assignor to United States Rubber Company, New York, N. Y. Diaphragm motor. 2,664,673, Jan. 5.

Dewhirst, Paul A., assignee: *See*—
Hamer, Leland S.

Diamond Alkali Company, assignee: *See*—
Brumbaugh, Chester C.
McCormick, Dean D.

Diamond, Horace W., assignor to Morton Salt Company, Chicago, Ill. Impregnated salt tablet. 2,665,236, Jan. 5.

Di Chiara, Vincent J., Johnston, and M. Bruscini, Providence, R. I., assignors to Marvin Co. Ring mold. 2,664,606, Jan. 5.

Dickman, Jacob I., assignor to S. Bean, Los Angeles, Calif. Electric steaming iron. 2,664,654, Jan. 5.

Di Pietro, William O.: *See*—
Schuler, Frederic W., Mansir, and Di Pietro.

Dixie Tallyho, Inc., assignee: *See*—
Pitman, Alfred T.

Dondero, John A., New York, N. Y. Heating system. 2,665,073, Jan. 5.

Douglas Aircraft Company, Inc., assignee: *See*—
Benson, Bernard S.

Dow Chemical Company, The, assignee: *See*—
Fischback, Bryant C.
Meuil, Lloyd J.
Monroe, Ezra, and Hand.
Ohlmann, Edward O., and Thurber.
Poffenberger, Noland.
Swezey, Arthur W.

D'Ozouville, François, Paris, France, assignor to Siper S. A., Emsallah, Tangier. Electromagnetically controlled friction clutch. 2,664,981, Jan. 5.

Draper, Donald R., Detroit, Mich. Apparatus for applying tubular fabric to articles. 2,665,043, Jan. 5.

Drefke, Anna M., Hackensack, Minn. Sanitary nest depository. 2,664,855, Jan. 5.

Dreyfus, Ludwig, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Metallurgical furnace having a stirring winding. 2,665,319, Jan. 5.

Drinker, Pemberton H., Strafford, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Interrelated automatic and manual vaive control. 2,664,915, Jan. 5.

Drum, Harry S., Abington, H. F. Liedtke, Philadelphia, and J. Schmitz, Jr., Crestmont Farms, assignors to Smith, Drum & Company, Philadelphia, Pa. Apparatus for drying stockings in stacks. 2,664,647, Jan. 5.

Du Bois, Robert E., Hammond, Ind. Resistor structure. 2,665,356, Jan. 5.

Du Bois, Robert E., Hammond, Ind. Resistor mounting. 2,665,357, Jan. 5.

Du Bois, Robert E., Hammond, Ind. Resistor grid. 2,665,358, Jan. 5.

Duffing, Paul, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Electrically operated fluid pump. 2,664,826, Jan. 5.

Duncan Electric Manufacturing Company, assignee: *See*—
Paine, Louis A.

Dunham, Elmer J., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Clamp means for industrial trucks. 2,665,022, Jan. 5.

Dunipace, Donald W., and N. C. Nitschke, Perrysburg, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for measuring thickness of sheet material. 2,665,333, Jan. 5.

Dunlap, Charles K., Hartsville, S. C., assignor to Sonoco Products Company. Means for sizing and surface finishing paper tubes and the like. 2,664,793, Jan. 5.

Du Pont, E. I., de Nemours and Company, assignee: *See*—
Johnson, Rayner S.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Krantz, Karl W.

Durant, Wilbur G., Pasadena, assignor to O'Keefe & Merritt Company, Los Angeles, Calif. Adjustable broiler for cook stoves. 2,664,878, Jan. 5.

Durbin, Vernon, Waban, and C. T. Button, Needham, assignors to National Pneumatic Co., Inc., Boston, Mass. Thermoelectric door operating mechanism. 2,665,129, Jan. 5.

Dyckerhoff & Widmann Kommanditgesellschaft, assignee: *See*—
Finsterwalder, Ulrich, and Ebert.

Eastern Tool Company, assignee: *See*—
Clark, Frank W., and Stolze.

Ebert, Philipp: *See*—
Finsterwalder, Ulrich, and Ebert.

Eck, John C., Convent, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Package containing N-alkyl pyrrolidone-2, composition thereof, and absorbing acetylene thereby. 2,664,997, Jan. 5.

Edge, Stanley H., assignor to Clayton Dewandre Company Limited, Lincoln, England. Servoassisted operating mechanism. 2,664,707, Jan. 5.

Eding, Harold J., Palo Alto, and C. I. Glassbrook, Hayward, Calif., assignors to Ethyl Corporation, New York, N. Y. Analysis of nonferrous alloys. 2,665,412, Jan. 5.

Edwards, Andrew W., East McKeesport, and E. F. Beach, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Counting mechanism for line sectionalizers. 2,665,346, Jan. 5.

Edwards Company, Inc., assignee: *See*—
Russo, James E.

Edwards, William J.: *See*—
Hale, Arthur N., Koenig, and Edwards.

Eernst, Gijsbertus: *See*—
Van de Poll, Abraham N. J., Geeven, Eernst, and Slui.

Eierman, Jack F., Wauwatosa, Wis. Change dispensing mechanism. 2,664,984, Jan. 5.

Elsbein, Walter T. E., Stuttgart-Bad Cannstatt, Germany. Developing apparatus. 2,664,801, Jan. 5.

Electroline Company, assignee: *See*—
Berndt, Arthur A.

Eliot, Samuel, Newton, Mass. Engine. 2,664,865, Jan. 5.

Elias, Richard G., assignee: *See*—
Salvatora, Joseph L.

Elliot, William H., Whitefish Bay, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Unbalanced primary motor control system. 2,665,404, Jan. 5.

Elliot, William H., Whitefish Bay, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Phase-shift circuits. 2,665,407, Jan. 5.

Elliott, Howard R., Long Beach, Calif. Nut holder with resilient legs. 2,664,771, Jan. 5.

Ellis, Edward J., Bartow, Fla., assignor to The Davison Chemical Corporation, Baltimore, Md. Liquid-solids interface indicator. 2,664,747, Jan. 5.

Ellison, Samuel H., Washington, D. C., assignor of one-half to H. E. Mitschele, Chicago, Ill. Coin operated dispensing pump control. 2,664,983, Jan. 5.

Elly, Joyce: *See*—
Haward, Robert N., and Elly.

Elmlund, Hugo: *See*—
Arvidsson, Algot, Elmlund, and Sonesson.

Elsworth, John V., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 2,665,173, Jan. 5.

Emerson, William S., and R. A. Heimsch, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Herbicidal method. 2,665,203, Jan. 5.

Emsco Manufacturing Company, assignee: *See*—
Ashton, Albert A.

Erdon, William A.: *See*—
Giblin, Thomas P., and Erdon.

Erickson, Lowell H.: *See*—
Merrill, Marcellus S., and Erickson.

Ericson, George R., Kirkwood, and I. E. Coffey, assignors to Carter Carburetor Corporation, St. Louis, Mo. Fuel control system. 2,664,872, Jan. 5.

Ernest, Robert P., Wayne, assignor to Kaiser-Frazer Corporation, Willow Run, Mich. Engine head. 2,664,864, Jan. 5.

Etchart, Leonard W., Glasgow, Mont. Hydraulic loader and handling means for trucks. 2,665,016, Jan. 5.

Ethyl Corporation, assignee: *See*—
Beste, George W.
Eding, Harold J., and Glassbrook.

Enverard, Maynard R., Short Hills, N. J. Micrometer for measuring thin insulation. 2,664,640, Jan. 5.

Evans, David W.: *See*—
Evans, Wallace A. and D. W., and Sims.

Evans, David W., assignee: *See*—
Evans, Wallace A. and D. W., and Sims.

Evans, James R., Blackville, S. C. Sidewalk grader and paver. 2,664,794, Jan. 5.

Evans, Richard E., Southport, P. F. Darby, and T. G. Owen, Fairfield, Conn., assignors, by mesne assignments, to Rem-Cru Titanium, Inc., Midland, Pa. Material weighing and delivering apparatus. 2,665,031, Jan. 5.

Evans, Wallace A. and D. W., and L. J. Sims, Penarth, Wales, said Sims assignor to said W. A. and D. W. Evans. Molding core. 2,664,613, Jan. 5.

Evans, Wallace A., assignee: *See*—
Evans, Wallace A. and D. W., and Sims.

Ex-Cell-O Corporation, assignee: *See*—
Monroe, Charles Z., and German.

Ey, Victor, Woodside, N. Y. Fluid pressure regulator with automatic means for shutting off the fluid. 2,664,672, Jan. 5.

Fahnoe, Frederick, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Dispenser for liquid detergents. 2,664,900, Jan. 5.

Fairbairn, Eric F.: *See*—
Collyer, John E., and Fairbairn.

Fallon, Albin F., Grosse Pointe Park, Mich. Adjustable splined arbor. 2,665,136, Jan. 5.

Fansteel Metallurgical Corporation, assignee: *See*—
Kleis, John D.

Farbenfabriken Bayer Aktiengesellschaft, assignee: *See*—
Kurtz, Peter, and Schwarz.

Faszczuk, Roman, Chicago, Ill. Automotive sleigh. 2,664,962, Jan. 5.

Feathercombs, Inc., assignee: *See*—
Smith, Roy A.

Feeney, Thomas A., and J. E. Glenn, Los Angeles, W. B. Degenfelder, Wilmington, R. E. Crandall, Los Angeles, and H. S. Ripley, Inglewood, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Flap actuator and control system. 2,665,084, Jan. 5.

Feeser, Roy R., Thomasville, Pa. Corn silking and cleaning machine. 2,664,580, Jan. 5.

Fegley, Marian F.: *See*—
McKeever, Charles H., and Fegley.

Feigelman, Herman A., Paterson, N. J. Combined display card and articles thereon. 2,665,003, Jan. 5.

Feinberg, Albert E., Chicago, Ill. Measuring circuit. 2,665,395, Jan. 5.

Ferrari, E. R., assignee: *See*—
Ferrari, Ernest R.

Ferrari, Ernest R., Vancouver, Wash., assignor to A. W. Schaupp and E. R. Ferrari, a copartnership, doing business as American Smooth Saw Co., Klamath Falls, Oreg. Machine for splitting or resawing insulating boards. 2,664,923, Jan. 5.

Ferris, Robert G., Harvard, Ill., assignor to Starline Inc. Salt container. 2,664,856, Jan. 5.

Feustel, Irvin C.: *See*—
Clark, Frederick E., and Feustel.

Fields, Ernest, New York, N. Y. Single track game for two vehicles. 2,664,831, Jan. 5.

Figley, James D., Defiance, Ohio. Panel fastener. 2,665,155, Jan. 5.

Fincher, Louis, assignor to Lufkin Foundry & Machine Company, Lufkin, Tex. Pumping unit. 2,664,824, Jan. 5.

Finkelstein, Abraham, Mount Vernon, N. Y. Brassière. 2,664,564, Jan. 5.

Finsterwalder, Ulrich, and P. Ebert, assignors to Dyckerhoff & Widmann Kommanditgesellschaft, Muenchen, Germany. Dam. 2,664,714, Jan. 5.

Firma Dipl.-Ing. Friedrich Henrich Flottmann, assignee: *See*—
Bartholomae, Heinrich.

Fiscella, John J.: *See*—
Gannon, John J., Powell, and Fiscella.

Fischback, Bryant C., Walnut Creek, Calif., assignor to The Dow Chemical Company, Midland, Mich. Metal xanthates of the haloaryloxyalkanols. 2,665,291, Jan. 5.

Fischback, Bryant C., Walnut Creek, Calif.; assignor to The Dow Chemical Company, Midland, Mich. Metal xanthates of the haloaryl polyalkylene glycol monoethers. 2,665,292, Jan. 5.

Fischer, Hans F., New Philadelphia, Ohio, assignor to Joy Manufacturing Company. Replaceable blade fan. 2,665,054, Jan. 5.

Fisler, William C., Moorestown, N. J., and O. M. Summers, assignors to Linear Incorporated, Philadelphia, Pa. V-type packing for eliminating labyrinth flow. 2,665,151, Jan. 5.

Fismer, William L., Verona, N. J. Drill press. 2,664,756, Jan. 5.

Fitzgerald, Maurice E. H.: *See*—
Campbell, Norman R., Fitzgerald, and Collier.

Flagg, Raymond P., Moundsview Township, Ramsey County, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermoelectric generator. 2,665,321, Jan. 5.

Fleischmann, Richard, assignor to J. A. Wulfing, Gronau, Hannover, Germany. Calcium lactate suppository. 2,665,235, Jan. 5.

Flora, Laurence H., and J. Balint, assignors to Tinnerman Products, Inc., Cleveland, Ohio. Support. 2,665,103, Jan. 5.

Foote, Harold G.: *See*—
Van Alen, De Witt T., and Foote.

Fornkahl, Theodore A.: *See*—
McLain, Ray, and Fornkahl.

Forwald, Haakon, Ludvika, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Arrangement in air-blast circuit breakers provided with damping resistance. 2,665,351, Jan. 5.

Foss, Burdette W., Fort Wayne, and S. L. Hunter, assignors to Ossian Engineering Co., Inc., Ossian, Ind. Nozzle support and switch operator. 2,665,032, Jan. 5.

Foster Cathead Company, assignee: *See*—
Foster, James L.

Foster, David B., London, and W. S. Norman, Hoole, Chester, assignors to C. D. Patents Limited, London, England. Apparatus for treating gases with liquids. 2,665,123, Jan. 5.

Foster, James L., assignor to Foster Cathead Company, Wichita Falls, Tex. Winding device. 2,665,113, Jan. 5.

Foster Machine Company, assignee: *See*—
Stange, Ferdinand F.

Fowler, Alvah W., assignor of fifty per cent to H. L. Collins, Fort Worth, Tex. Compressible tube closure. 2,665,038, Jan. 5.

Fox, Richard E., Glenview, assignor of one-half to General Porcelain Enameling and Manufacturing Company, Chicago, Ill. Means for mounting metal wall panels. 2,664,978, Jan. 5.

Frady, William E., Jr., Los Angeles, Calif., assignor to Hughes Tool Company, Houston, Tex. Double interpolation method and apparatus for measuring time intervals. 2,665,411, Jan. 5.

Franklin, Charles M.: *See*—
Hahn, Rea I., and Franklin.

Freedman, Morris, assignee: *See*—
Shulman, Bernard B.

Freshwater, Edmon S.: *See*—
Gebr, Richard A., and Freshwater.

Frieberg, Nelson R., and O. F. Larsen, Ithaca, N. Y., assignors to The National Cash Register Company, Dayton, Ohio. Symbol-printing mechanism. 2,665,063, Jan. 5.

Friedman, Barbara, assignee: *See*—
Friedman, Max.

Friedman, Max, assignor of one-third to N. Spiegel and one-third to B. Friedman, New York, N. Y. Rectangular hedge cutter. 2,664,627, Jan. 5.

Fuglie, Elmer A., assignor to Winona Tool Manufacturing Company, Winona, Minn. Automatic lumber-releasing traveling gang saw sawmill. 2,664,926, Jan. 5.

Fulke, Frank L., Terre Haute, Ind. Internal-combustion engine. 2,664,866, Jan. 5.

Gaddini, Norman E., Winters, Calif. Fruit halving and pitting machine. 2,664,932, Jan. 5.

Gaither, Bert, Van Nuys, Calif. Shoeshine device. 2,664,585, Jan. 5.

Gamrath, Harry R., assignor to Monsanto Chemical Company, St. Louis, Mo. Esters of gamma-ketopimelic acid. 2,665,303, Jan. 5.

Gannon, John J., Troy, C. P. Powell, Waterford, and J. J. Fiscella, Schuyler Heights, assignors to Cluett, Peabody & Co., Inc., Troy, N. Y. Apparatus for twisting and winding yarns. 2,664,694, Jan. 5.

Ganzmann, Robert P., Little Falls, N. Y. Power pulverizing plow. 2,664,803, Jan. 5.

Garden City Plating & Manufacturing Co., assignee: *See*—
Kurtzon, Charles K.

Garden, Nelson B.: *See*—
Gifford, John F., and Garden.

Gariepy, Victor, Waterloo, Quebec, Canada. Dilator for clogged teats. 2,664,894, Jan. 5.

Garrido, Virgilio N., Madrid, Spain. Apparatus for projecting luminous targets. 2,665,133, Jan. 5.

Gash, Abram D., Jr.: *See*—
Bonanno, Joseph L., and Gash.

Gath, Friedrich: *See*—
Stein, Wilhelm, and Gath.

Gatzke, Ernest F.: *See*—
Walters, Gustav, and Gatzke.

Gaylord Container Corporation, assignee: *See*—
George, Walter C.

Geeven, Gomarus M. A. C.: *See*—
Van de Poll, Abraham N. J., Geeven, Eernst, and Slui.

Gehr, Richard A., Glenville, N. Y., and E. S. Freshwater, Detroit, Mich., assignors to General Electric Company. Quenching device. 2,664,901, Jan. 5.

Gehrie, Charles S., Mendham, N. J. Self-sealing tank to contain gas under pressure. 2,664,727, Jan. 5.

General Aniline & Film Corporation, assignee: *See*—
Beller, Hans.
Davidson, Hugh R.
Fahnoe, Frederick.
Schulze, Chris C., and Orenyo.
Wilkinson, Joseph M., Jr., and Barker.

General Cable Corporation, assignee: *See*—
Atkinson, Ralph W., and McGrath.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Gehr, Richard A., and Freshwater.
Janos, Alfred G.
Lingel, Fred J.
Sway, Henry C.
Walker, Benjamin M.
Young, Gerald W., and Hain.
Zunick, Michael J., and Goodrick.

General Electric Company Limited, The, assignee: *See*—
Collyer, John E., and Fairbairn.

General Motors Corporation, assignee: *See*—
Hahn, Rea I., and Franklin.
Hartzell, Herman L., and Lautzenhiser.
Lautzenhiser, Argyle G.
Stuart, Joseph III.

General Porcelain Enameling and Manufacturing Company, assignee: *See*—
Fox, Richard E.

General Tire & Rubber Company, The, assignee: *See*—
McKinney, Carlos J.

Geoffrion, Edmour, Ville St. Laurent, Quebec, assignor, by mesne assignments, to R. Geoffrion, Montreal, Quebec, Canada. Time controlled circuit selector. 2,664,948, Jan. 5.

Geoffrion, Romeo, assignee: *See*—
Geoffrion, Edmour.

George, Walter C., assignor to Gaylord Container Corporation, St. Louis, Mo. Partitioned folded-blank bottle carrier. 2,665,049, Jan. 5.

Georgiev, Alexander M., and L. J. Rawson, Dayton, Ohio. Oscillating stairs. 2,664,990, Jan. 5.

Gerber, Dale C.: *See*—
Humphrey, Warren A., and Gerber.

German, Dwight: *See*—
Monroe, Charles Z., and German.

Getz, Delmond L., and E. C. Lafferty, assignors to The Steel Products Engineering Company, Springfield, Ohio. Stoker apparatus. 2,665,071, Jan. 5.

Giannelli, Joseph, Astoria, N. Y. Automatic phonograph. 2,665,134, Jan. 5.

Giblin, Thomas P., and W. A. Erdon, Pawtucket, R. I. Position indicator for automobiles. 2,664,634, Jan. 5.

Gibson, William, Bellmore, N. Y., assignor to California Packing Corporation, San Francisco, Calif. Case marking device. 2,664,816, Jan. 5.

Gielow, Orrin W., Kansas City, Mo. Golf bag. 2,664,933, Jan. 5.

Gifford, John F., Richland, Wash., and N. B. Garden, Berkeley, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission. Container for neutron irradiated material. 2,664,998, Jan. 5.

Gillespie, Charles H., Cedar City, Utah. Tractor seat with cushioned support means. 2,664,941, Jan. 5.

Gillette Company, The, assignee: *See*—
Young, Louis H.

Gisondi, Emanuel, New York, N. Y. Self-clenching nail. 2,664,778, Jan. 5.

Glassbrook, Clarence I.: *See*—
Eding, Harold J., and Glassbrook.

Glenn, John E.: *See*—
Feeney, Thomas A., Glenn, Degenfelder, Crandall, and Ripley.

Godley, Philip, 2nd: *See*—
Chadsey, Earl E., Jr., Clough, and Godley.
Clough, Philip J., and Godley.

Godley, Philip, 2nd, Lexington, assignor to National Research Corporation, Cambridge, Mass. Apparatus and process for coating by vapor deposition. 2,665,225, Jan. 5.

Godley, Philip, 2nd, Lexington, P. J. Clough, Reading, and R. A. Stauffer, Weston, assignors to National Research Corporation, Cambridge, Mass. Method and apparatus for vapor coating. 2,665,226, Jan. 5.

Goede, Charles F., New Philadelphia, Ohio, assignor to Joy Manufacturing Company. Adjustable blade fan. 2,664,961, Jan. 5.

Goodhue, Lyle D., Bartlesville, Okla., and C. E. Tissol, St. Paul, Minn., assignors to Phillips Petroleum Company. Dibenzothiophenes as fungicides. 2,665,234, Jan. 5.

Goodman Manufacturing Company, assignee: *See*—
Slomer, Joseph J.

Goodrich, B. F., Company, The, assignee: *See*—
Ardis, Alan E.
Kamlet, Jonas.

Goodrick, Howard W.: *See*—
Zunick, Michael J., and Goodrick.

Goregliad, Arsenius N.: *See*—
Berg, Abram S., and Goregliad.

Goss Printing Press Company, The, assignee: *See*—
Knell, Christopher V.

Grady, William H., assignee: *See*—
Harrison, Edward.

Graetz, Francis D., Denver, Colo. Camera tripod. 2,665,099, Jan. 5.

Graflex, Inc., assignee: *See*—
Tone, Frederick F.

Graham, Marion E., Parma, A. S. Henderson, Berea, and I. P. Whitehouse, South Euclid, assignors, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio. Preparation of ferrous chloride from iron oxide-containing material. 2,665,191, Jan. 5.

Graham, Robert, Kilmarnock, Scotland, assignor to Shell Development Company, San Francisco, Calif. Coated metal product and producing same. 2,664,873, Jan. 5.

Graham, Robert, Kilmarnock, Scotland, assignor to Shell Development Company, San Francisco, Calif. Coated metal products and producing same. 2,664,874, Jan. 5.

Grangaard, Donald H., Appleton, assignor to Paper Patents Company, Neenah, Wis. Impregnating cellulosic sheet. 2,665,221, Jan. 5.

Graphic Arts Research Foundation, Inc., assignee: *See*—
Higonnet, René, and Moyroud.

Gray, Philip P., Forest Hills, assignor to Wallerstein Company, Inc., New York, N. Y. Making bakery products and composition therefor. 2,665,215, Jan. 5.

Gray, Robert A., Jr., assignor to Mueller Brass Company, Port Huron, Mich. Liquid line indicator. 2,664,846, Jan. 5.

Green, Daniel A., assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Gas mask. 2,664,887, Jan. 5.

Green, Robert H., and S. A. Brackett, assignors to Monroe Auto Equipment Company, Monroe, Mich. Resilient suspension for farm implements. 2,664,805, Jan. 5.

Green, Walter F., assignor to The Timken Roller Bearing Company, Canton, Ohio. Hydraulically controlled fluid driven reciprocating actuator. 2,664,859, Jan. 5.

Greenblatt, Hyman, assignee: *See*—
Sabbagh, Mitchell.

Greenwell, Howard E.: *See*—
Bilhartz, Harrell L., and Greenwell.

Greig, James W., assignor to Woodall-Industries, Inc., Detroit, Mich. Panel molding and assembly thereof. 2,664,596, Jan. 5.

Greig, James W., assignor to Woodall Industries, Inc., Detroit, Mich. Sliding panel and mounting. 2,664,598, Jan. 5.

Greppin, Ernest H., assignor to Wilmot Castle Company, Rochester, N. Y. Explosion-proof light having a pressure relieving porous element. 2,665,369, Jan. 5.

Griffin, Robert H., Yonkers, assignor to Tanners' Research Corporation, New York, N. Y. Transfer device for conveyers. 2,664,731, Jan. 5.

Gross, Glenn H.: *See*—
Walker, Delos A., and Gross.

Gross, Reinhold, Dayton, Ohio. Ground release for cargo parachutes. 2,665,163, Jan. 5.

Grossmann, Samuel W.: *See*—
Congdon, William J., and Grossmann.

Guffey, Ralph A., Louisville, Ky. Tension relief device for cables. 2,665,128, Jan. 5.

Guiberson Corporation, The, assignee: *See*—
Losey, Thomas B.

Guisasola, Bonifacio, Eibar, Spain. Slide and barrel securing key for automatic pistols. 2,664,786, Jan. 5.

Gund, Konrad, Erlangen, Germany. Magnetic induction accelerator. 2,665,392, Jan. 5.

Hadden, George H., assignor to Minshall-Estey Organ, Inc., Brattleboro, Vt. Frequency divider. 2,665,379, Jan. 5.

Hadley, Ralph T., assignee: *See*—
Rawlings, John.

Hagstrom, Gotthard, Greenwich, Conn., assignor to The Safe Padlock and Hardware Company, Lancaster, Pa. Latch bolt unit. 2,665,154, Jan. 5.

Hahn, Rea I., and C. M. Franklin, Rochester, N. Y., assignors to General Motors Corporation, Detroit, Mich. Tube flaring and nut assembling machine. 2,664,619, Jan. 5.

Hain, John L.: *See*—
Young, Gerald W., and Hain.

Hajek, Joseph: *See*—
Hein, George C., and Hajek.

Halbriter, Percy H., Los Angeles, Calif. Cake preserver device. 2,664,810, Jan. 5.

Hale, Arthur N., Stratford, E. L. Koenig, Westport, and W. J. Edwards, Stratford, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J. Presser lifter actuating mechanism for sewing machines. 2,664,841, Jan. 5.

Hale, Frank B., Bel Air, Md., assignor to the United States of America as represented by the Secretary of the Army. Fuze. 2,664,822, Jan. 5.

Hall Laboratories, Inc., assignee: *See*—
Roland, Charles T.

Hallander, Elvin E., West Caldwell, assignor to International Projector Corporation, Bloomfield, N. J. Mounting for centrifugal machines. 2,665,007, Jan. 5.

Hamer, Leland S., Long Beach, assignor of one-fourth to P. A. Dewhirst, Los Angeles, Calif. Line blind construction. 2,664,918, Jan. 5.

Hamilton Tool Company, The, assignee: *See*—
Huffman, Harold W.

Hammer, Thomas R., H. H. Ingersoll, and C. R. Hodges, Edinburg, Tex. Pump liner spacer stud. 2,665,178, Jan. 5.

Hammerstrand, Clarence R., Rockford, Ill. Circuit closer. 2,665,340, Jan. 5.

Hand, Clare: *See*—
Monroe, Ezra, and Hand.

Handschin, Max G., Zurich, Switzerland, assignor to Promundo, Schaan, Liechtenstein. Telephonograph with answering device. 2,665,337, Jan. 5.

Hanford, William E., Short Hills, assignor to The M. W. Kellogg Company, Jersey City, N. J. Separation of oxygenated organic compounds. 2,665,290, Jan. 5.

Hannemann, Carl H., Los Angeles, Calif. Parachute quick-release device. 2,664,610, Jan. 5.

Hansen, Hans H., assignor to The Taylor-Winfield Corporation, Warren, Ohio. Flash welder control. 2,665,360, Jan. 5.

Hansen, Hans I.: *See*—
Kessler, Norman H., and Hansen.

Harcourt, Guy N., Buffalo, N. Y., assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa. Solvent extraction recovery method and apparatus. 2,665,198, Jan. 5.

Hardy, Lowell M., Portland, Maine. Instrument for testing pH values of body canal liquids and color comparator for use therewith. 2,664,879, Jan. 5.

Harper, Orion J., Bicknell, Ind. All-purpose farm spreader. 2,665,135, Jan. 5.

Harper, Wesley A., E. S. Minton, and H. Orelup, assignors to National Farm Machinery Cooperative, Inc., Bellevue, Ohio. Clutch arrangement for side delivery rakes. 2,664,759, Jan. 5.

Harris, Ross: *See*—
Mullen, Edward, and Harris.

Harrison, Edward, Sheldon, Birmingham, assignor of one-half to W. H. Grady, Bournville, Birmingham, England. Portable apparatus for dispensing beverages. 2,665,034, Jan. 5.

Harstick, William H., Oak Park, Ill., assignor to International Harvester Company. Centrifugally operable valve ring for centrifugal separators. 2,664,905, Jan. 5.

Harstick, William H., Oak Park, Ill., assignor to International Harvester Company. Milk strainer with removable baffle and centering device. 2,665,009, Jan. 5.

Harstick, William H., Oak Park Ill., assignor to International Harvester Company. Power washing centrifugal separator with indentations along the inner peripheral edges of the separating disks. 2,665,060, Jan. 5.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
De Gier, Johannes.
Köhler, Jacob W. L.
Smits, Hubertus J.
Van de Poll, Abraham N. J., Geeven, Eernst, and Slui.
Vermeulen, Reolof.

Hartzell, Herman L., and A. G. Lautzenhiser, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Engine governor. 2,664,867, Jan. 5.

Hartzler, Melvin E.: *See*—
McKee, John F., and Hartzler.

Harvel Corporation, The, assignee: *See*—
Wasserman, David.

Harvie, Walter E., Lynwood, Calif. Opening means for locking wrench type pliers. 2,664,774, Jan. 5.

Hatcher, David B., Evanston, Ill., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, New York, N. Y. Production of cyclic organosilicon compounds. 2,665,287, Jan. 5.

Hatfield, James R., assignor to Cities Service Oil Company, Bartlesville, Okla. Oil well pump. 2,664,827, Jan. 5.

Haward, Robert N., and J. Elly, Trafford Park, Manchester, assignors to Petrocarbon Limited, London, England. Preparing copolymers of styrene and divinylbenzene. 2,665,270, Jan. 5.

Hayakawa, Shigeru, Musashino-Shi, Tokyo-To, Japan. Making an alcoholic malt beverage. 2,665,213, Jan. 5.

Hazeltine Research, Inc., assignee: *See*—
Brunn, Robert B. J.

Heasley, Charles K., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Stencil and backing unit. 2,664,818, Jan. 5.

Hedenburg, Oscar F., Pittsburgh, Pa., assignor, by mesne assignments, to Rex Research Corporation, Toledo, Ohio. Insecticides and insecticidal compositions. 2,665,233, Jan. 5.

Hedinger, Ernst, Schlieren, Switzerland, assignor to Joseph Weidenhoff, Incorporated, Algona, Iowa. Ignition system analyzer. 2,665,408, Jan. 5.

Hedrick, William R., Knoxville, Tenn. Motor propelled lawn edger. 2,664,807, Jan. 5.

Heimsch, Robert A.: *See*—
Emerson, William S., and Heimsch.

Hein, George C., and J. Hajek, Mars, Pa.; said Hajek assignor to said Hein. Air conditioning apparatus and liquid metering device. 2,664,604, Jan. 5.

Hein, Harold W., Chicago, Ill., assignor to International Harvester Company. Variable capacity measuring scoop. 2,664,753, Jan. 5.

Hemminger, Charles E.: *See*—
Martin, Homer Z., and Hemminger.

Henderson, Ashland S.: *See*—
Graham, Marion E., Henderson, and Whitehouse.

Henry, Allen, and I. Keranen, Detroit, Mich. Douche syringe. 2,664,892, Jan. 5.

Herbst, Walter A., Union, N. J., assignor to Standard Oil Development Company. Adsorptive distillation. 2,665,315, Jan. 5.

Herlec Corporation, assignee: *See*—
Kodama, George T.

Herres, Schuyler A., Albany, N. Y., assignor to Allegheny Ludlum Steel Corporation, Brackenridge, Pa. Arc melting of titanium to form ingots. 2,665,318, Jan. 5.

Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Radioactivity well logging. 2,665,385, Jan. 5.

Hickson, William F., Clark Township, Union County, and W. A. McGough, Woodridge, assignors to Circle X Antenna Corporation, Perth Amboy, N. J. Aerial arrangement. 2,665,380, Jan. 5.

High, Carl F., Detroit, Mich. Fuel injection nozzle. 2,665,167, Jan. 5.

High, Kenneth W. W., Haworth, Keighley, England. Convertible, adjustable, and collapsible seat and ladder. 2,664,940, Jan. 5.

Higonnet, René, and L. Moyroud, assignors to Graphic Arts Research Foundation, Inc., Cambridge, Mass. Apparatus for composing justified lines. 2,664,986, Jan. 5.

Hill, Carlos E., assignee: *See*—
Bethea, Jasper D.

Hill, Geoffrey T.: *See*—
Crocombe, Frederick F., and Hill.

Hill, Laurence B., assignor to Smith-Corona Inc., Syracuse, N. Y. Ribbon vibrating mechanism for typewriting machines. 2,664,989, Jan. 5.

Hillard, Elmer A., Bristol, Tenn. Device for applying adhesive substances to tapelike articles. 2,664,851, Jan. 5.

Hillenbrand, George C., and M. J. Laugle, assignors to The Batesville Casket Company, Batesville, Ind. Casket interior unit. 2,664,615, Jan. 5.

Hintz, Donald M., Northbrook, Ill., assignor to Culligan, Inc. Closure assembly for tanks and other containers. 2,665,028, Jan. 5.

Hirsch, Alf C., Eau Claire, Wis., and G. F. Wikle, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y. Tire bead setting apparatus. 2,664,937, Jan. 5.

Hodges, Clarence R.: *See*—
Hammer, Thomas R., Ingersoll, and Hodges.

Hoffmann-La Roche Inc., assignee: *See*—
Aeschlimann, John A., and Stempel.

Holdaway, George H., and E. C. Wallace, Mountain View, Calif. Propeller ice-prevention heating unit. 2,665,090, Jan. 5.

Holland, Jesse H., Redondo Beach, Calif. Device for adjustably mounting packs of indicator cards or plates. 2,664,657, Jan. 5.

Hollander, Julius, Yeadon, and B. S. Sabreen, Philadelphia, Pa. Cushion for artificial dentures. 2,664,631, Jan. 5.

Hollibaugh, William C., Springfield, assignor to Sun Oil Company, Philadelphia, Pa. Mineral oil containing 1,2-dialkoxy benzene as an oxidation inhibitor. 2,665,253, Jan. 5.

Holmsten, Neil O., New Rochelle, N. Y. Locking device. 2,664,737, Jan. 5.

Homeyer, August H., Webster Groves, G. B. De La Mater, St. Louis County, and A. A. Cochran, Ferguson, assignors to Mallinckrodt Chemical Works, St. Louis, Mo. Monobasic morphine phosphate hemihydrate and preparing same. 2,665,277, Jan. 5.

Hood, Robert J., assignee: *See*—
Clark, Frank W., and Stolze.

Hoover Company, The, assignee: *See*—
Brace, George A.
Humphrey, Warren A., and Gerber.
Kitto, William H.
Swann, Edward R.

Hoover (Washing Machines) Limited, assignee: *See*—
Bell, William C., and Curry.

Hord, Paul E., Tebbetts, Mo. Vending machine. 2,665,184, Jan. 5.

Hornfeck, Anthony J., Lyndhurst, Ohio, assignor to Bailey Meter Company. Electric calculating circuits. 2,665,066, Jan. 5.

Horrocks, Walter E., Lakewood, Ohio. Container. 2,665,029, Jan. 5.

Horton, Ralph, Groton, Conn., and N. E. Spiess, Jr., Oakdale, and K. R. Weaver, Bellport, assignors to National Dairy Research Laboratories, Inc., Oakdale, N. Y. Pumping mechanism. 2,664,829, Jan. 5.

Hostettler, Ernst, Zurich, Switzerland. Mudguard indicator for vehicles, particularly automobiles. 2,665,095, Jan. 5.

Houdry Process Corporation, assignee: *See*—
Lebeis, Edward H., Jr.

How, Harlan: *See*—
Armstrong, Lowell, Willoughby, Morton, and How.

Howald, Arthur M., Perrysburg, Ohio, assignor, by mesne assignments, to Allied Chemical & Dye Corporation, New York, N. Y. Preparation of improved polymerizable unsaturated polyester compositions and polymerized material therefrom. 2,665,263, Jan. 5.

Howard, Everett W., Glen Rock, and J. B. Osborne, South Orange, N. J., and H. P. Wickham, Upper Brookville, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J. Refining catalyst laden hydrocarbons. 2,665,239, Jan. 5.

Howell, William S., Minneapolis, Minn., and J. V. Irwin, Madison, Wis., assignors to Regents of the University of Minnesota, Minneapolis, Minn. Apparatus for speech instruction. 2,664,649, Jan. 5.

Howlett, John W., assignor of one-half to Wellworthing Piston Rings Limited, Lymington, England. Grinding or honing machine. 2,664,711, Jan. 5.

Hubacker, Earl F., and F. L. Tarleton, Muskegon, Mich., assignors to Borg-Warner Corporation, Chicago, Ill. Electrical hinge. 2,665,414, Jan. 5.

Huddle, Edwin F., Elmwood Park, and E. C. Carlson, Chicago, Ill., assignors to International Harvester Company. Double sickle type mower. 2,664,690, Jan. 5.

Huffman, Harold W., assignor to The Hamilton Tool Company, Hamilton, Ohio. Method of and means for varying the circumference of printing cylinders. 2,664,821, Jan. 5.

Hughes Tool Company, assignee: *See*—
Burbeck, Donald W.
Frady, William E., Jr.

Huguenin, Marc, assignor to Montres Rolex S. A., Geneva, Switzerland. Anchor escapement for timepieces. 2,664,695, Jan. 5.

Humphrey, Warren A., Canton, and D. C. Gerber, assignors to The Hoover Company, North Canton, Ohio. Vacuum cleaner end closure and dusting tool converter coupling therefor. 2,665,148, Jan. 5.

Humphreys & Glasgow Limited, assignee: *See*—
Williams, Norman H.

Hunter Douglas Corporation, assignee: *See*—
Hunter, Joseph L.

Hunter, Joseph L., assignor to Hunter Douglas Corporation, Riverside, Calif. Continuous casting. 2,664,607, Jan. 5.

Hunter, Scott L.: *See*—
Foss, Burdette W., and Hunter.

Huron Portland Cement Company, assignee: *See*—
Schemm, George A.

Hyde, James H., executor: *See*—
Rennie, Elwood, and Hyde.

Hyde, William W.: *See*—
Rennie, Elwood, and Hyde.

Hydrocarbon Research, Inc., assignee: *See*—
Arnold, John H.
Kwauk, Mooson.

Hyman, Abraham, New York, N. Y. Converting from an unbalanced to a balanced circuit. 2,665,413, Jan. 5.

Iddings, Charles D.: *See*—
Woolslayer, Homer J., Jenkins, Iddings, and Campbell.

Ihm, Lewis W., Pacoima, assignor to Librascope, Incorporated, Burbank, Calif. Equation solving mechanism. 2,665,069, Jan. 5.

Imperial Chemical Industries Limited, assignee: *See*—
Burgess, Arthur R.

Indian Archery & Toy Corporation, assignee: *See*—
Koch, William H.

Ingersoll, Horton H.: *See*—
Hammer, Thomas R., Ingersoll, and Hodges.

Ingersoll Milling Machine Company, The, assignee: *See*—
Strachan, John M.

Ingersoll-Rand Company, assignee: *See*—
Bancel, Paul A.

Ingraham, Harold O. C., Sharon, Conn., and J. D. Sundy, Savannah, Ga., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Conveyer. 2,664,592, Jan. 5.

Ingwersen, Richard C., assignor to Mechanical Products, Inc., Jackson, Mich. Electric circuit breaker. 2,665,347, Jan. 5.

Intagliata, Dominic T., St. Louis, Mo. Reverse cycle heating and cooling system. 2,664,721, Jan. 5.

Interchemical Corporation, assignee: *See*—
Carlick, Daniel J.
Rolle, Clifford J., and Van Kirk.

International Harvester Company, assignee: *See*—
Borgerd, William F.
Brantingham, Paul T.
Courtney, Joseph F., and Radtke.
Cutliff, Norman J., and Brogan.
Harstick, William H.
Hein, Harold W.
Huddle, Edwin F., and Carlson.
Lindblom, Carl A.
McDonald, Edwin P., and Conlogue.
McNamara, Gordon G., Jr.
Nickla, Louis E.
Vogel, Hilmond O.
Walker, Delos A., and Gross.

International Latex Corporation, assignee: *See*—
Andrews, Fred W.

International Paper Company, assignee: *See*—
Baumann, Martin.
Baumann, Martin, and Sider.

International Projector Corporation, assignee: *See*—
Hallander, Elvin E.

International Telephone and Telegraph Corporation, assignee: *See*—
Bellamy, John L., and Arthur.

Irwin, John V.: *See*—
Howell, William S., and Irwin.

Ivey, Cleo R., Jasper, Ala. Boring machine. 2,665,117, Jan. 5.

Jackson & Church Company, assignee: *See*—
Ahlborn, Clarence E.

Jackson, George H., assignee: *See*—
Pearson, Vernon L.

Jacobs, Joseph H. and M. L., Minneapolis, Minn. Portable power saw with oppositely rotating blades. 2,664,925, Jan. 5.

Jacobs, Marcellus L.: *See*—
Jacobs, Joseph H. and M. L.

Jacobson, Earl A., Elk Point, S. Dak. Machine for selectively printing and feeding tape. 2,664,817, Jan. 5.

Jacusis, Peter, Chicago, Ill. Propeller meter. 2,664,746, Jan. 5.

Janke, Edward J., Cleveland, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Printing machine. 2,664,819, Jan. 5.

Janos, Alfred G., Erie, Pa., assignor to General Electric Company. Shelf support mounting arrangement. 2,665,101, Jan. 5.

Jason, Jacob R., Brooklyn, N. Y. Adjustable article supporting bracket. 2,665,100, Jan. 5.

Jay, Kenneth W.: *See*—
Boyd, Winnett, Meschino, and Jay.

Jencks, Hollis W., assignor to C. C. Cleverdon, doing business as Detroit Coil Company, Detroit, Mich. Solenoid. 2,665,397, Jan. 5.

Jenkins, Cecil: *See*—
Woolslayer, Homer J., Jenkins, Iddings, and Campbell.

Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Hedge trimmer. 2,664,626, Jan. 5.

Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Sadiron lift. 2,664,655, Jan. 5.

Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Coffee maker. 2,664,811, Jan. 5.

Johnson, Carl E., Griffith, and A. P. Lien, Highland, Ind., assignors to Standard Oil Company, Chicago, Ill. Preparation of the ethyl esters of sulfonic acids. 2,665,293, Jan. 5.

Johnson, Ernest A., Duluth, Minn. Grain sampler. 2,664,751, Jan. 5.

Johnson, Everett A., Park Ridge, assignor to Standard Oil Company, Chicago, Ill. Hydraulic fracturing to increase well productivity. 2,664,954, Jan. 5.

Johnson, Rayner S., New Castle, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Stabilization of derivatives of dithiocarbamic acids. 2,665,285, Jan. 5.

Jones, Barton, Los Angeles, Calif. Fluid pressure responsive equipment. 2,664,749, Jan. 5.

Jordan, Merrill E., Walpole, assignor to G. L. Cabot, Inc., Boston, Mass. Production of carbon black from aerosols. 2,665,194, Jan. 5.

Joseph, Michael, West Roxbury, Mass. Sewing machine thread control. 2,664,840, Jan. 5.

Joy Manufacturing Company, assignee: *See*—
Adams, Thomas O., Jr.
Fischer, Hans F.
Goede, Charles F.

Jumer, John F., Chicago, Ill. Apparatus for electropolishing metals. 2,665,247, Jan. 5.

Kaden, Oskar F., Hamburg-Gross Flottbeck, Germany. Refining raw cocoa and raw masses made therefrom. 2,665,210, Jan. 5.

Kaiser-Frazer Corporation, assignee: *See*—
Ernest, Robert P.

Kamlet, Jonas, Stratford, Conn., assignor to The B. F. Goodrich Company, New York, N. Y. Stabilized ice-cream compositions. 2,665,216, Jan. 5.

Kamm, Wunibald I. E., assignor to Automotive Design Company, Dayton, Ohio. Stabilizing vehicles. 2,665,137, Jan. 5.

Kammann, Morris H., Mound, Minn. Flexible handle paintbrush. 2,664,582, Jan. 5.

Kansas City Testing Laboratory, assignee: *See*—
Cross, Walter M., Jr.

Kantrowitz, Arthur, Ithaca, N. Y. Construction for controlling clearance and positions of parts by thermal actuators. 2,665,058, Jan. 5.

Katzman, Abe, Bronx, N. Y. Partitions for boxes, cartons, and the like. 2,665,026, Jan. 5.

Keast, Dorothy M.: *See*—
Miller, Anna L., and Keast.

Keck, Zack R., Strathmore, Calif. Timing system. 2,664,949, Jan. 5.

Keelavite Company Limited, The, assignee: *See*—
Leverus, Francis B.

Kelbel, Donald W., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission and control mechanism therefor. 2,664,765, Jan. 5.

Kellems Company, assignee: *See*—
Kellems, Edgar E.

Kellems, Edgar E., Pasadena, Calif., assignor to Kellems Company, Stonington, Conn. Article holding device. 2,664,609, Jan. 5.

Kellogg, M. W., Company, The, assignee: *See*—
Hanford, William E.
Howard, Everett W., Osborne, and Wickham.

Kelly, Daniel A., assignor to The Prime Manufacturing Company, Milwaukee, Wis. Attachment for trimming the treads of wheels. 2,664,679, Jan. 5.

Kempel, George P., Cuyahoga Falls, Ohio. Bust pad. 2,664,571, Jan. 5.

Kempel, George P., Cuyahoga Falls, Ohio. Disposable syringe. 2,664,891, Jan. 5.

Kempel, George P., Cuyahoga Falls, Ohio. Disposable douche. 2,664,893, Jan. 5.

Kenmar Manufacturing Company, The, assignee: *See*—
Spear, Detmer D.

Kennedy, Thomas J.: *See*—
Reynolds, William B., Wicklatz, and Kennedy.

Keranen, Irene: *See*—
Henry, Allen, and Keranen.

Kerlin, William L., Los Angeles, Calif., assignor to Clellan Ross Pleasants. Atmospheric conditioning method and apparatus. 2,665,168, Jan. 5.

Kerr, Alexander H., and Company, Incorporated, assignee: *See*—
Klug, Clarence.

Kessler, Lee H., assignee: *See*—
Kessler, Norman H., and Hansen.

Kessler, Norman H., and H. I. Hansen, Cedar Rapids, Iowa, assignors to L. H. Kessler, Springville, N. Y. Double impeller impact breaker. 2,665,074, Jan. 5.

Kiel, Kenneth M., assignor to King-Seeley Corporation, Ann Arbor, Mich. Timer and control mechanism. 2,664,755, Jan. 5.

King-Seeley Corporation, assignee: *See*—
Kiel, Kenneth M.

Kinley, John C.: *See*—
Kinley, Myron M. and J. C.

Kinley, Myron M., and J. C. Kinley, Houston, Tex. Device for making permanent records. 2,665,187, Jan. 5.

Kishel, Joseph S., assignee: *See*—
Zielinski, Edward A.

Kitto, William H., Evanston, Ill., assignor to The Hoover Company, North Canton, Ohio. Conversion arrangement for suction cleaners. 2,664,587, Jan. 5.

Klaybor, Leonard V., Dunkirk, N. Y., assignor to Allegheny Ludlum Steel Corporation, Brackenridge, Pa. Hot work steel alloy. 2,665,205, Jan. 5.

Klels, John D., Lake Forest, assignor to Fansteel Metallurgical Corporation, North Chicago, Ill. Electrical contact. 2,664,618, Jan. 5.

Klug, Clarence, assignor, by mesne assignments, to Alexander H. Kerr and Company, Incorporated, Los Angeles, Calif. Apparatus for the heat treatment of fabrics. 2,665,125, Jan. 5.

Knell, Christopher V., Glen Ellyn, assignor to The Goss Printing Press Company, Chicago, Ill. Stereotype finishing machine. 2,664,788, Jan. 5.

Knight, Lorne F., assignor to Massey-Harris Company Limited, Toronto, Ontario, Canada. Upsetting apparatus. 2,665,359, Jan. 5.

Knight, Milton A., Clifton, Va. Vent plug and electrolyte leveling device for aircraft storage batteries. 2,665,326, Jan. 5.

Knobloch, James O., Hobert, and J. W. Sparks, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Halogen clevage of ozonides. 2,665,280, Jan. 5.

Koch, William H., assignor to Indian Archery & Toy Corporation, Evansville, Ind. Wheel dresser. 2,664,875, Jan. 5.

Kodama, George T., assignor to Herlec Corporation, Milwaukee, Wis. Multiple electric capacitor. 2,665,376, Jan. 5.

Koenig, Edward L.: *See*—
Hale, Arthur N., Koenig, and Edwards.

Köhler, Jacob W. L., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., trustee. Multicylinder double-acting hot-gas reciprocating engine. 2,664,699, Jan. 5.

Kohn, Frank, Mobile, Ala. Fishing apparatus. 2,664,661, Jan. 5.

Kojis, John J., assignor to S & C Electric Company, Chicago, Ill. Fuse clip construction. 2,665,415, Dec. 5.

Konig, Otto: *See*—
McFarlane, Thomas P., and Konig.

Kopa, Walter, New York, N. Y. Accordion shoulder plate. 2,664,776, Jan. 5.

Kopa, Walter, New York, N. Y. Accordion knee support. 2,664,777, Jan. 5.

Kosolapoff, Gennady M., Auburn, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo. Thioamyl ester of diphenyldithiophosphinic acid and process therefor. 2,665,294, Jan. 5.

Koval, John P., Norwood, assignor to Bird & Son, inc., East Walpole, Mass. Building corner construction. 2,664,595, Jan. 5.

Kozacka, Frederick J., Amesbury, assignor to The Chase-Shawmut Company, Newburyport, Mass. Current-limiting fuse. 2,665,348, Jan. 5.

Kralowetz, Bruno, Steyr, Austria, assignor to A. Saxer, Thawil, Switzerland. Cutting tool assembly. 2,664,617, Jan. 5.

Krantz, Karl W., Niskayuna, N. Y., assignor to E. I. du pont de Nemours & Company, Wilmington, Del. Selective chlorination of 2,5-dichlorophenol to 2,4,5-trichlorophenol in the presence of 2,4-dichlorophenol. 2,665,314, Jan. 5.

Krantz, Louis, assignee: *See*—
Tuck, James A.

Krasnow, Shelley, Fairfax, Va., and M. J. Test, Kansas City, Mo., assignors to Schlumberger Well Surveying Corporation, Houston, Tex. Well radioactivity logging apparatus. 2,665,386, Jan. 5.

Kravitz, Allan, Detroit, Mich. Adjustable cornice. 2,664,946, Jan. 5.

Kreibich, Karl, Vienna, Austria, assignor to "Rivarossi" Officine Miniature Elettroferroviarie Soc. Acc. Semplice A. Rossi & F. Brunner, Como, Italy. Trackless vehicle driven by electric motors. 2,664,830, Jan. 5.

Krepps, James E. Jr., assignor, by mesne assignments, to Sarkes Tarzian, Inc., Bloomington, Ind. Universal tuning system for television receivers. 2,665,377, Jan. 5.

Kroeker, Sanford P.: *See*—
Lovelady, Isaac W., and Kroeker.

Krueger, Alfred P., Stratford, assignor to Derby Sealers, Incorporated, Derby, Conn. Tape-dispensing mechanism. 2,665,078, Jan. 5.

Krusemark, Frederick A., Chicago, Ill. Visor assembly for automotive vehicles. 2,665,140, Jan. 5.

Kühas, Engelbert: *See*—
Brock, Norbert, Kühas, and Schmeisser.

Kuhn, Theodore F., Kansas City, Kans. Automatic power transmission. 2,664,767, Jan. 5.

Kurtz, Peter, Leverkusen-Bayerwerk, and H. E. E. Schwarz, Leverkusen-Wiesdorf, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany. Producing organic unsaturated nitriles. 2,665,297, Jan. 5.

Kurtzon, Charles K., Chicago, Ill., assignor to Garden City Plating & Manufacturing Co. Combination reflector and showcase frame member. 2,665,370, Jan. 5.

Kwauk, Mooson, assignor to Hydrocarbon Research, Inc., New York, N. Y. Gasification of solid carbonaceous materials. 2,665,200, Jan. 5.

Ladd, Elbert C.: *See*—
Brooks, Marvin C., and Ladd.

Lafferty, Edward C.: *See*—
Getz, Delmond L., and Lafferty.

Lambach, Fritz, Tenafly, and W. Siegel, Union City, assignors to Robert Reiner, Inc., Weehawken, N. J. Warp knitting machine. 2,664,724, Jan. 5.

La Monica, Frank, Unionville, assignor to The United Tool & Die Company, Elmwood, Conn. Burnishing apparatus. 2,664,675, Jan. 5.

Landgraf, Francis J., and R. P., Chicago, Ill. Synchronous electric clock motor. 2,665,389, Jan. 5.

Landgraf, Richard P.: *See*—
Landgraf, Francis J. and R. P.

La Radio Industrie, assignee: *See*—
Cahen, Roger.

Larsen, Oscar F.: *See*—
Frieberg, Nelson R., and Larsen.

Larson, Karl R., Alton, Ill. Weedless fishhook. 2,664,662, Jan. 5.

Larson, Martin, Upper Darby, assignor to Richard H. Prewitt, trading as Prewitt Aircraft Co., Wallingford, Pa. Molding apparatus. 2,664,593, Jan. 5.

Larsson, Karl-Hugo, Stockholm, Sweden. Shearing board, particularly for fishing trawl nets. 2,664,660, Jan. 5.

Lauer, George G.: *See*—
Passino, Herbert J., and Lauer.

Laugle, Millard J.: *See*—
Hillenbrand, George C., and Laugle.

Lautzenhiser, Argyle G.: *See*—
Hartzell, Herman L., and Lautzenhiser.

Lautzenhiser, Argyle G., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Engine governor. 2,664,868, Jan. 5.

Lautzenhiser, Argyle G., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Engine governor. 2,664,906, Jan. 5.

La Verne, Albert A., Brooklyn, N. Y. Scalp massaging device. 2,664,884, Jan. 5.

Lawson, Grace, Los Angeles, Calif. Culinary device. 2,664,630, Jan. 5.

Lear, Joseph D., assignor to Posting Equipment Corporation, Buffalo, N. Y. Posting tray. 2,664,898, Jan. 5.

Lebels, Edward H., Jr., Media, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Bead forming process. 2,665,258, Jan. 5.

Le Bus, George F., Wichita Falls, Tex. Sand trap for oil wells. 2,664,828, Jan. 5.

Lee, Jason D., Salem, Oreg. Rocking device. 2,664,575, Jan. 5.

Leese, Charles P., assignor to Standard Car Truck Company, Chicago, Ill. Truck stabilizer package unit. 2,665,127, Jan. 5.

Lehman, Albert W., Stillwater, assignor to St. Croix Manufacturing Company, Bayport, Minn. Guard rail attachment for beds. 2,664,576, Jan. 5.

Leitz, Ernst, G. m. b. H., assignee: *See*— Stein, Wilhelm, and Gath.

Leng, Leopold, Wettingen, assignor to "Patelhold" Patentverwertungs- & Elektro-Holding A.-G., Glarus, Switzerland. High and very high frequency tunable circuits. 2,665,339, Jan. 5.

Leonard, Charles H., and J. M. Cooke, Silverton, Oreg., said Cooke assignor to said Leonard. Forming cutter for rounding handle ends. 2,664,930, Jan. 5.

Lepkowski, Thomas W., New York, N. Y. Adjustable line width writing fountain pen. 2,664,858, Jan. 5.

Lesjak, Babette V., executrix: *See*— Lesjak, Michael.

Lesjak, Michael, deceased, late of Goggingen, Germany, by B. V. Lesjak, executrix, Goggingen, Germany. Device for attaching perforated film strips to spool cores. 2,665,080, Jan. 5.

Le Tourneau, R. G., Inc., assignee: *See*— Le Tourneau, Robert G.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Peoria, Ill. Self-aligning carrier. 2,664,994, Jan. 5.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Peoria, Ill. Logging tractor. 2,665,110, Jan. 5.

Levetus, Francis B., Allesley, Coventry, assignor to The Keelavite Company Limited, Coventry, England. Hydraulic ram mechanism. 2,664,860, Jan. 5.

Libbey-Owens-Ford Glass Company, assignee: *See*— Dunipace, Donald W., and Nitschke.

Librascope, Incorporated, assignee: *See*— Imm, Lewis W.

Liedtke, Hugo F.: *See*— Drum, Harry S., Liedtke, and Schmitz.

Lien, Arthur P.: *See*— Johnson, Carl E., and Lien.

Lihn, Manuel M., Clementon, N. J. Stocking and making same. 2,664,726, Jan. 5.

Lincoln Brass Works, Inc., assignee: *See*— Blackford, Donald E.

Lindblom, Carl A., Auburn, Ind., assignor to International Harvester Company. Tandem axle suspension. 2,665,141, Jan. 5.

Linear Incorporated, assignee: *See*— Fisler, William C., and Summers.

Lingel, Fred J., Syracuse, N. Y., assignor to General Electric Company. Rectifier assembly. 2,665,399, Jan. 5.

Link-Belt Speeder Corporation, assignee: *See*— Strnad, Frank J.

Link, Karl P.: *See*— Seidman, Martin, and Link.

Lionel Corporation, The, assignee: *See*— Bonanno, Joseph L., and Gash.

Lippert, Erhard M., assignor to Victor Adding Machine Co., Chicago, Ill. Ribbon feeding mechanism. 2,665,079, Jan. 5.

Liquid Carbonic Corporation, The, assignee: *See*— Rogers, Lawrence M., and Siver.

Lisk, George F., Buffalo, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Production of 1,6-naphthalenediol. 2,665,313, Jan. 5.

Lloyd, Peter, Farnham, W. F. Shilling, Woking, J. Brown, Highfields, and R. A. Boulter, Great Yarmouth, assignors to Power Jets (Research and Development) Limited, London, England. Cooled flame tube. 2,664,702, Jan. 5.

Lobelle, Marcel J. O., Slough, assignor to M. L. Aviation Company, Limited, Buckinghamshire, England. Safety device for aircraft seat ejectors. 2,665,088, Jan. 5.

Lomax, Clarence E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Digit-absorbing repeater. 2,665,338, Jan. 5.

Longfellow, Melvin E., Manchester, and N. R. Richmond, Thompsonville, assignors to United Aircraft Corporation, East Hartford, Conn. Topping governor and reversing solenoid for variable pitch propellers. 2,664,960, Jan. 5.

Loose Leaf Metals Company, assignee: *See*— Derringer, Pete O.

Lorimer, Collins S., Urbana, Ohio. Apparatus and method for unloading lumber and the like. 2,665,019, Jan. 5.

Lormor, Henry W., Shaker Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Battery burning rack. 2,664,842, Jan. 5.

Loroco Industries Incorporated, assignee: *See*— Tomarin, Harry A.

Losey, Thomas B., assignor to The Guiberson Corporation, Dallas, Tex. Casing packer cup. 2,664,952, Jan. 5.

Loudon, Warren P., Tucson, Ariz., assignor to The National Cash Register Company, Dayton, Ohio. Means to punch a special code by locking data levers by transaction lever. 2,664,951, Jan. 5.

Lovelady, Isaac W., and S. P. Kroeker, assignors to Sivalls Tanks, Inc., Odessa, Tex. Gas and multiple liquid separator apparatus. 2,664,963, Jan. 5.

Lowe, Rudy P., Cranston, R. I., assignor to Proportioneers, Inc. Apparatus for proportioning flows of different materials. 2,664,907, Jan. 5.

Lubrizol Corporation, The, assignee: *See*— Prutton, Carl F.

Lufkin Foundry & Machine Company, assignee: *See*— Fincher, Louis.

Lundquist, Carl E. E., Stockholm, Sweden. Chair. 2,664,944, Jan. 5.

M. L. Aviation Company, Limited, assignee: *See*— Lobelle, Marcel J. O.

MacDonald, Dennison H., East Haven, assignor to Revere Corporation of America, Wallingford, Conn. Instrument for sensing the densities of fluids. 2,664,742, Jan. 5.

MacDonald, Dennison H., East Haven, assignor to Revere Corporation of America, Wallingford, Conn. Making thermocouples. 2,665,322, Jan. 5.

Mack Manufacturing Corporation, assignee: *See*— Schmal, Alois H.

Maffucci, Daniel J., San Francisco, Calif. Combination form for washing woolen socks. 2,665,041, Jan. 5.

Malakoff, Howard L.: *See*— Willke, Louis G., Malm, and Malakoff.

Mallinckrodt Chemical Works, assignee: *See*— Homeyer, August H., De La Mater, and Cochran.

Malm, Ignace L.: *See*— Willke, Louis G., Malm, and Malakoff.

Mandaville, Gurney L., Fort Pierce, Fla. Stereoscopic device. 2,664,885, Jan. 5.

Manfredi, Dario, and A. Raiti, New York, N. Y. Parachute safety release. 2,665,093, Jan. 5.

Mansir, Wesley W.: *See*— Schuler, Frederic W., Mansir, and Di Pietro.

Marchant Calculators, Inc., assignee: *See*— Avery, Harold T.

Marcy, John P., Alhambra, Calif. Tile covered, fireproofed structural element. 2,664,739, Jan. 5.

Maresca, Everett J., Baldwin, N. Y. Combination torch holder and paint scraper. 2,664,945, Jan. 5.

Marié, Pierre G., Paris, France. Microwave dispersive mirror. 2,665,383, Jan. 5.

Market Forge Company, assignee: *See*— Warshaw, Nathaniel.

Marman Products Company, Inc., assignee: *See*— Christophersen, Clarence E.

Martin, Homer Z., Roselle, and C. E. Hemminger, Westfield, N. J., assignors to Standard Oil Development Company. Producing hydrogen and carbon monoxide from gaseous hydrocarbons. 2,665,199, Jan. 5.

Martin, James, Higher Denham, near Uxbridge, England. Ejection seat for aircraft. 2,665,089, Jan. 5.

Martin, John R., assignor to Oldham & Son Limited, Denton, near Manchester, England. Electrolyte level indication in electrical accumulators. 2,665,327, Jan. 5.

Martin, Merle E., Cresco, Iowa. Gearshift conversion apparatus. 2,664,761, Jan. 5.

Marvin Co., assignee: *See*— Di Chiara, Vincent J., and Bruscini.

Maryland Baking Company, Inc., assignee: *See*— Bolton, James.

Massey-Harris Company Limited, assignee: *See*— Knight, Lorne F.

Mast, George W., South Salem, and L. E. Tenenbaum, Brooklyn, assignors to Nepera Chemical Co., Inc., Yonkers, N. Y. Azo compounds. 2,665,273, Jan. 5.

Mayo, Alfred C., Richmond, England. Photographic camera and shutter mechanism therefor. 2,664,800, Jan. 5.

McCormick, Dean D., Painesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Plug setter. 2,664,953, Jan. 5.

McCready, Charles T., Onley, Va. Vine turner attachment for cultivators. 2,664,806, Jan. 5.

McCrink, Joseph J., West Orange, N. J. Pressure gauge. 2,664,750, Jan. 5.

McCurdy, Everett D., trustee, assignee: *See*— Brennan, Joseph B.

McDonald, Edwin P., and J. Conlogue, Chicago, Ill., assignors to International Harvester Company. Article for flash welding track rollers. 2,665,361, Jan. 5.

McDonough, John J., Belmont, assignor to Scott & Williams, Incorporated, Laconia, N. H. Circular multifeed hosiery knitting machine. 2,664,723, Jan. 5.

McEneaney, Hugh G., New York, N. Y. Locking device for electrical connections. 2,664,734, Jan. 5.

McFarlane, Thomas P., Farmington, Conn., and O. Konig, assignors to National Lead Company, New York, N. Y. Negative plate material for storage batteries. 2,665,323, Jan. 5.

McFarlane, Thomas P., Farmington, Conn., assignor to National Lead Company, New York, N. Y. Manufacture of storage batteries. 2,665,324, Jan. 5.

McGill Manufacturing Company, Inc., assignee: *See*— Popp, Rudolf.

McGough, William A.: *See*— Hickson, William F., and McGough.

McGrath, Martin H.: *See*— Atkinson, Ralph W., and McGrath.

McGraw Electric Company, assignee: *See*— Pummer, Leo. Weinfurt, William J.

McKee Door Company, assignee: *See*— McKee, John F., and Hartzler.

McKee, John F., Aurora, and M. E. Hartzler, Downers Grove, assignors to McKee Door Company, Aurora, Ill. Counterbalanced door construction. 2,664,597, Jan. 5.

McKeever, Charles H., Glenside, and M. F. Fegley, Mont Clare, assignors to Rohm & Haas Company, Philadelphia, Pa. Preparation of acetylenic amines. 2,665,311, Jan. 5.

McKenna, Herman F., Williamstown, W. Va. Automobile valve protection plate. 2,664,869, Jan. 5.

McKinney, Carlos J., Detroit, Mich., assignor to The General Tire & Rubber Company, Akron, Ohio. Window channel construction. 2,664,603, Jan. 5.

McLain, Ray, and T. A. Fornkahl, Cape Girardeau, Mo. Wire lifting crane. 2,665,012, Jan. 5.

McLaughlin, Robert C., and H. H. Ring, assignors to Geo. D. Roper Corporation, Rockford, Ill. Oven construction for ranges. 2,664,877, Jan. 5.

McMillan, Frank M., Berkeley, and R. D. Sullivan, Oakland, assignors to Shell Development Company, San Francisco, Calif. Naphthenate sized products. 2,665,207, Jan. 5.

McNamara, Gordon G., Jr., Chicago, Ill., assignor to International Harvester Company. Loader attachment for tractors. 2,665,017, Jan. 5.

Mechanical Handling Systems, Inc., assignee: *See*— Mullen, Edward, and Harris.

Mechanical Products, Inc., assignee: *See*— Ingwersen, Richard C.

Meindl, Josef, Buffalo, N. Y. Window construction. 2,664,601, Jan. 5.

Mendenhall, Alfred, Dayton, Ohio. Water softener. 2,665,251, Jan. 5.

Ménégoz, Charles D., Saint-Jean-de-Maurienne, France, assignor to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Refining aluminum electrolytically. 2,665,244, Jan. 5.

Merck & Co., Inc., assignee: *See*— Conbere, John P. Schultz, Everett M.

Merrill, Marcellus S., and L. H. Erickson, Denver, Colo., said Erickson assignor to said Merrill. Brake testing apparatus. 2,664,745, Jan. 5.

Meschino, Ronald G.: *See*— Boyd, Winnett, Meschino, and Jay.

Metal and Thermit Corporation, assignee: *See*— Passino, Herbert J., and Lauer.

Metzner, Albert W., assignor to The Standard Register Company, Dayton, Ohio. Strip feeding device. 2,664,988, Jan. 5.

Meull, Lloyd J., Long Beach, Calif., assignor to The Dow Chemical Company, Midland, Mich. Controlling mold and decay on fresh fruits and vegetables. 2,665,217, Jan. 5.

Meyer, Geo. J., Manufacturing Co., assignee: *See*— Carter, Sidney T.

Meyers, Edward J.: *See*— Moore, Scott, Meyers, and Nolan.

Mianulli, Avo R., Philadelphia, Pa. Flexible shell suit. 2,664,566, Jan. 5.

Michalski, Karol, Newark, N. J. Clothesline pulley. 2,665,114, Jan. 5.

Migneault, Maurice, Nashua, N. H. Container closure. 2,665,023, Jan. 5.

Miller, Anna L., and D. M. Keast, Philadelphia, Pa. Antiperspirant dispenser. 2,664,581, Jan. 5.

Miller, Jack C., New Sharon, Iowa. Pig castrating holder. 2,664,857, Jan. 5.

Miller, Raymond J., Detroit, assignor to Dearborn Motors Corporation, Birmingham, Mich. Track laying front wheel for tricycle tractors. 2,665,175, Jan. 5.

Miller, Raymond J., Detroit, assignor to Dearborn Motors Corporation, Birmingham, Mich. Warning light for vehicles. 2,665,418, Jan. 5.

Miller, Robert C., assignor to Benton Harbor Engineering Works, Inc., Benton Harbor, Mich. Self-regulating flow-control valve. 2,664,914, Jan. 5.

Mine Safety Appliances Company, assignee: *See*— Green, Daniel A.

Minneapolis-Honeywell Regulator Company, assignee: *See*— Drinker, Pemberton H. Flagg, Raymond P.

Minnesota Mining & Manufacturing Company, assignee: *See*— Heasley, Charles K. Noponen, George E.

Minshall-Estey Organ, Inc., assignee: *See*— Hadden, George H.

Minton, Eugene S.: *See*— Harper, Wesley A., Minton, and Orelup.

Mitchell, John E., Company, assignee: *See*— Sydow, Ernest D.

Mitschele, Herman E., assignee: *See*— Ellison, Samuel H.

Mohawk Carpet Mills, Inc., assignee: *See*— Stanley, John P.

Molina, Gilberto, Tucson, Ariz. Mold for frying tacos wrappers. 2,664,812, Jan. 5.

Molstedt, Byron V., Baton Rouge, La., assignor to Standard Oil Development Company. Contacting gaseous material with finely divided solids. 2,664,967, Jan. 5.

Monroe Auto Equipment Company, assignee: *See*— Green, Robert H., and Brackett.

Monroe, Charles Z., and D. German, assignors to Ex-Cell-O Corporation, Detroit, Mich. Machine for packaging fluent material. 2,665,044, Jan. 5.

Monroe, Ezra, Midland, and C. Hand, Sanford, assignors to The Dow Chemical Company, Midland, Mich. Aryl esters of chlorobenzoic acid. 2,665,301, Jan. 5.

Monsanto Chemical Company, assignee: *See*— Butler, John M. Emerson, William S., and Heimsch. Gamrath, Harry R. Kosolapoff, Gennady M. Mowry, David T., and Schlesigner. Patrick, Tracy M., Jr.

Montres Rolex S. A., assignee: *See*— Huguenin, Marc.

Moog, Arthur E., Caldwell, and C. M. Perkins, Rutherford, assignors to Bendix Aviation Corporation, Teterboro, N. J. Aircraft control system monitor. 2,665,086, Jan. 5.

Moore, Lee C., Corporation, assignee: *See*— Woolslayer, Homer J., Jenkins, Iddings, and Campbell.

Moore, Raymond H., Oak Park, Ill. Dust arrester. 2,664,966, Jan. 5.

Moore, Scott, E. J. Meyers, and P. R. Nolan, Oklahoma City, Okla. Watermelon carrier. 2,665,162, Jan. 5.

Morell, Joseph J., East Cleveland, Ohio. Air vent tube. 2,664,809, Jan. 5.

Morgan Construction Company, assignee: *See*— Morgan, Myles, and O'Malley.

Morgan, Myles, and J. M. O'Malley, assignors to Morgan Construction Company, Worcester, Mass. Rotary shears. 2,664,950, Jan. 5.

Morris, Willis B., assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Jet engine throttle control. 2,664,762, Jan. 5.

Morton, Rogers C. P.: *See*— Armstrong, Lowell, Willoughby, Morton, and How.

Morton Salt Company, assignee: *See*— Diamond, Horace W.

Mountain Copper Company, Ltd., The, assignee: *See*— Rowe, Percy J.

Mowry, David T., and A. H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Organic thiocyanate herbicides. 2,665,202, Jan. 5.

Moyroud, Louis: *See*— Higonnet, Rene, and Moyroud.

Mueller Brass Company, assignee: *See*— Gray, Robert A., Jr.

Mulford, Hewett P., & Company, assignee: *See*— Mulford, Marion R.

Mulford, Marion R., assignor to Hewett P. Mulford & Company, Lebanon, Ohio. Plant package. 2,664,670, Jan. 5.

Mullen, Edward, and R. Harris, assignors to Mechanical Handling Systems, Inc., Detroit, Mich. Load carrier for use in overhead trolley conveyer systems. 2,664,993, Jan. 5.

Mullen, Thomas W., Evansville, Ind. Dispenser of rodenticides. 2,664,663, Jan. 5.

Mullins Manufacturing Corporation, assignee: *See*— Stanitz, Jacques.

Mundy, William J., assignor to C. T. Small Manufacturing Company, St. Louis, Mo. Feeding device for caps and the like. 2,665,005, Jan. 5.

Murex Limited, assignee: *See*— Andrews, Leonard W.

Murray, Maurice A.: *See*— Thurnauer, Hans, and Murray.

Myer, Ira. Ephrata, Pa. Automatic row cultivator. 2,664,802, Jan. 5.

Myers, Clarence E., Cuyahoga Falls, assignor to Summit Steel Products, Inc., Akron, Ohio. Adjustable post. 2,665,104, Jan. 5.

Nallinger, Friedrich K. H., Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart Unterturkheim, Germany. Indicating instrument with dial plate, adapted to be illuminated. 2,664,849, Jan. 5.

Nallinger, Friedrich K. H., Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Cooling jacket for internal-combustion engines. 2,664,863, Jan. 5.

Napier, D., & Son Limited, assignee: *See*—
Catford, Adrian L., and Chamberlin.

National Cash Register Company, The, assignee: *See*—
Brown, George T., Jr.
Frieberg, Nelson R., and Larsen.
Loudon, Warren P.

National Dairy Research Laboratories, Inc., assignee: *See*—
Horton, Ralph, Spiess, and Weaver.

National Farm Machinery Cooperative, Inc., assignee: *See*—
Harper, Wesley A., Minton, and Orelup.

National Lead Company, assignee: *See*—
McFarlane, Thomas P.
McFarlane, Thomas P., and Konig.

National Pneumatic Co., Inc., assignee: *See*—
Durbin, Vernon, and Button.

National Research Corporation, assignee: *See*—
Chadsey, Earl E., Jr.
Chadsey, Earl E., Jr., Clough, and Godley.
Clough, Philip J., and Chadsey.
Clough, Philip J., and Godley.
Godley, Philip, 2nd.
Godley, Philip, 2nd, Clough, and Stauffer.
Schuler, Frederic W.
Schuler, Frederic W., Mansir, and Di Pietro.
Stauffer, Robert A.

Nauth, Edgar K., Kenmore, N. Y., assignor to Sylvania Electric Products Inc. Dial. 2,664,848, Jan. 5.

Neckel, Edmund N., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Automatic shirt folder. 2,665,039, Jan. 5.

Nelsh, Richard A., Library, Pa., assignor to United States Steel Corporation. Method and solution for treating zinc surfaces to inhibit formation of white rust. 2,665,232, Jan. 5.

Nepera Chemical Co., Inc., assignee: *See*—
Mast, George W., and Tenenbaum.

Nestler, Herbert N.: *See*—
Willinger, Harding W., and Nestler.

Newborn, John T., assignor to Vi-Spring Products Limited, London, England. Sofa bed with forward turning back. 2,664,574, Jan. 5.

Newcomer, Jack S., Wilson, N. Y., assignor to Sharples Chemicals Inc. Trichloroacrylyl chloride. 2,665,307, Jan. 5.

Newton, Alwin B., assignor to Acme Industries, Inc., Jackson, Mich. Ventilating shim for fan shaft bearings and the like. 2,665,059, Jan. 5.

New York Air Brake Company, The, assignee: *See*—
Elsworth, John V. V.

Nibbit Products Association Ltd., assignee: *See*—
Spieser, Louis.

Nichols, John W., San Diego, Calif. Pneumatic boxing helmet. 2,664,567, Jan. 5.

Nicholson, Roderick, Huntington, N. Y. Mortar form. 2,664,741, Jan. 5.

Nickla, Louis E., Memphis, Tenn., assignor to International Harvester Company. Cotton picker doffer means. 2,664,688, Jan. 5.

Niesemann, Fritz, assignor to Rockwell Manufacturing Company, Pittsburgh, Pa. Fluid regulator valve. 2,664,674, Jan. 5.

Nitschke, Norman C.: *See*—
Dunipace, Donald W., and Nitschke.

Nolan, Patrick R.: *See*—
Moore, Scott, Meyers, and Nolan.

Noponen, George E., White Bear, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Red iron oxide of high color purity and making same. 2,665,193, Jan. 5.

Nordberg Manufacturing Company, assignee: *See*—
Talboys, Henry H.

Norelius, Emil F., M. Toth, and D. Rinkema, Springfield, Ill., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic control system. 2,664,708, Jan. 5.

Norlén, Per I., Stockholm, Sweden. Pneumatic dental machine. 2,664,632, Jan. 5.

Norman, William S.: *See*—
Foster, David B., and Norman.

Northrop Aircraft, Inc., assignee: *See*—
Feeney, Thomas A., Glenn, Degenfelder, Crandall, and Ripley.
Morris, Willis B.
Starck, Halvar G.
Williams, Charles R.

Nowakowski, Edward, assignor to Helene Curtis Industries, Inc., Chicago, Ill. Bottle filling machine. 2,665,045, Jan. 5.

Odell, William W., New York, N. Y., assignor to Standard Oil Development Company. Promoting catalytic reactions in the vapor phase. 2,665,288, Jan. 5.

Oden, William E., Bogalusa, La. Sanitus garbage barrel support. 2,665,098, Jan. 5.

Office National d'Etudes et de Recherches Aeronautiques (O. N. E. R. A.), assignee: *See*—
Benoit, Edmond.

O'Harrow, Charles T., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tractor drawbar support. 2,664,804, Jan. 5.

Ohlmann, Edward O., Bay City, and W. S. Thurber, assignors to The Dow Chemical Company, Midland, Mich. Stabilized polyglycol compositions. 2,665,312, Jan. 5.

Olshei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Windshield wiping blade. 2,664,583, Jan. 5.

O'Keefe & Merritt Company, assignee: *See*—
Brainard, Maurice W.
Durant, Wilbur G.

Okulitch, George J.: *See*—
Zozulin, Igor, and Okulitch.

Oldham & Son Limited, assignee: *See*—
Martin, John R.

O'Malley, Joseph M.: *See*—
Morgan, Myles, and O'Malley.

Orban, Stephen G., Bloomfield, assignor to Bendix Aviation Corporation, Teterboro, N. J. Means for resiliently mounting vanes or frangible pump elements. 2,665,056, Jan. 5.

Orelup, Harold: *See*—
Harper, Wesley A., Minton, and Orelup.

Orenyo, Charles: *See*—
Schulze, Chris C., and Orenyo.

Orman, Johnnie A., Gardena, Calif. Bookmark with marker ribbon. 2,664,847, Jan. 5.

Orzábal, Raúl M., assignor to Virason Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina. Coupling device. 2,664,982, Jan. 5.

Osborne, John B.: *See*—
Howard, Everett W., Osborne, and Wickham.

Osip, Walter A.: *See*—
Amundsen, Paul L., and Osip.

Ossian Engineering Co., Inc., assignee: *See*—
Foss Burdette W., and Hunter.

Otto, Carl, Manhasset, N. Y. Coke oven heating walls. 2,665,242, Jan. 5.

Ottomano, Mario W., Union City, N. J., assignor to American Safety Razor Corporation, Brooklyn, N. Y. Cutting pile wire. 2,664,919, Jan. 5.

Owen, Thomas G.: *See*—
Evans, Richard E., Darby, and Owen.

P. B. R. Manufacturing Co., assignee: *See*—
Pucci, Joseph.

Paganini, Carl, Stuttgart, Germany. Combination lock. 2,664,738, Jan. 5.

Paine, Louis A., West Lafayette, assignor to Duncan Electric Manufacturing Company, Lafayette, Ind. Pencil chart mechanism. 2,665,185, Jan. 5.

Paper Patents Company, assignee: *See*—
Grangaard, Donald H.

Parechoc S. A., assignee: *See*—
Vuilleumier, Marcel.

Parent, John W., Saratoga Springs, N. Y. Vehicle brake, clutch, and gas control. 2,664,979, Jan. 5.

Parker Rust Proof Company, assignee: *See*—
Amundsen, Paul L., and Osip.

Parker, Thomas M., Evanston, Ill. Spinal massage apparatus. 2,664,882, Jan. 5.

Parker, Wayne, Pierre, S. Dak. Gun skid. 2,664,659, Jan. 5.

Parmentier, Guy C. M., Vaucresson, France. Fluid tight packing for gates. 2,664,712, Jan. 5.

Parnet, Arsène, Paris, France. Indexing device. 2,664,641, Jan. 5.

Passino, Herbert J., Engelwood, N. J., and G. G. Lauer, assignors, by mesne assignments, to Metal and Thermit Corporation, New York, N. Y. Production of organo-tin compounds. 2,665,286, Jan. 5.

"Patelhold" Patentverwertungs- & Elektro-Holding A.-G., assignee: *See*—
Leng, Leopold.

Patrick, Tracy M., Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Polycarboxylates. 2,665,304, Jan. 5.

Patten, Wilbert H., Trenton, N. J. Nonsiphoning, ball cock. 2,664,913, Jan. 5.

Pawelczak, John, San Diego, Calif. Button remover. 2,664,629, Jan. 5.

Payne, Eric R.: *See*—
Weaving, John H., and Payne.

Pearson, Vernon L., assignor of one-third to G. H. Jackson, Medford, Oreg. Ironing board cover fastener. 2,664,656, Jan. 5.

Pechiney Compagnie de Produits Chimiques et Electrometallurgiques, assignee: *See*—
Ménégoz, Charles D.

Pell, Eric, Shorewood, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Control system for electric motors. 2,665,401, Jan. 5.

Perbal, Albert C., Lake Arrowhead, Calif. Adjustable bracket structure. 2,665,102, Jan. 5.

Percoco, Richard A., Mamaroneck, N. Y. Staple driver. 2,664,565, Jan. 5.

Perfect Circle Corporation, assignee: *See*—
Storey, Clifford G.

Perkins, Corles M.: *See*—
Moog, Arthur E., and Perkins.

Pestarini, Joseph M., Staten Island, N. Y. Electric motor. 2,665,403, Jan. 5.

Peterson, Hartin F., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Dining car kitchen ventilating system. 2,664,808, Jan. 5.

Petrocarbon Limited, assignee: *See*—
Haward, Robert N., and Elly.

Phelps, William H., Ralston, Nebr. Adjustable frame power mower. 2,664,685, Jan. 5.

Philco Corporation, assignee: *See*—
Bocciarelli, Carlo V.

Phillips, Bobby S., assignee: *See*—
Antoski, Arnold J.

Phillips Petroleum Company, assignee: *See*—
Goodhue, Lyle D., and Tissol.
Reynolds, William B., Wicklatz, and Kennedy.

Phillips Screw Company, assignee: *See*—
Torr, John M.

Piasecki Helicopter Corporation, assignee: *See*—
Dancik, Paul J.

Pierce, Alfred F., assignor to American Manufacturing Company, Inc., Tacoma, Wash. Panel trim apparatus with orienting feed means. 2,664,927, Jan. 5.

Piercey, Edward W., Bells, Tenn. Door hook safety latch. 2,665,152, Jan. 5.

Pillsbury Mills, Inc., assignee: *See*—
Armstrong, Lowell, Willoughby, Morton, and How.

Pitman, Alfred T., Atlanta, assignor to Dixie Tallyho, Inc., Fairburn, Ga. Removable combination canopy frame and seat unit for motor vehicles. 2,665,165, Jan. 5.

Pleasants, Cellan R., assignee: *See*—
Kerlin, William L.

Plimmer, Alfred G., assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Thermal compensator. 2,664,787, Jan. 5.

Pneumatic Scale Corporation, Limited, assignee: *See*—
Walter, Edward T.

Poffenberger, Noland, assignor to The Dow Chemical Company, Midland, Mich. Multistage internal mixer-settler extraction apparatus. 2,665,196, Jan. 5.

Poole, Myron C., Bay City, assignor to Redman Trailer Company, Alma, Mich. Extensible table for house trailers. 2,665,180, Jan. 5.

Popp, Rudolf, assignor to McGill Manufacturing Company, Inc., Valparaiso, Ind. Switch housing. 2,665,353, Jan. 5.

Popp, Rudolf, assignor to McGill Manufacturing Company, Inc., Valparaiso, Ind. Electric switch housing. 2,665,354, Jan. 5.

Porter, H. K., Inc., assignee: *See*—
Porter, Thomas M.

Porter, Thomas M., Brookline, assignor to H. K. Porter, Inc., Somerville, Mass. Pole pruner head. 2,664,628, Jan. 5.

Posting Equipment Corporation, assignee: *See*—
Lear, Joseph D.

Potter, Thomas W. Mattoon, Ill. Leak detector composition for gaseous fluid conduits and the like. 2,665,257, Jan. 5.

Powell, Charles P.: *See*—
Gannon, John J., Powell, and Fiscella.

Powell, Edward E., Conimicut, R. I. Manual indexing mechanism. 2,664,791, Jan. 5.

Power Jets (Research and Development) Limited, assignee: *See*—
Lloyd, Peter, Shilling, Brown, and Boulter.

Prescott, Lewis A., Jr.: *See*—
Smith, Waldo W., and Prescott.

Prewitt Aircraft Co., assignee: *See*—
Larson, Martin.

Prewitt, Richard H., assignee: *See*—
Larson, Martin.

Prime Manufacturing Company, The, assignee: *See*—
Kelly, Daniel A.

Prins, Dougal W. S.: *See*—
Prins, Winston C. E. and D. W. S.

Prins, Winston C. E., and D. W. S. Prins, Washington, D. C. Rotary scraper, abrading, or polishing tool. 2,664,586, Jan. 5.

Promundo, assignee: *See*—
Handschin, Max G.

Proportioneers, Inc., assignee: *See*—
Lowe, Rudy P.

Prutton, Carl F., Cleveland Heights, assignor to The Lubrizol Corporation, Wickliffe, Ohio. Lubricants. 2,665,252, Jan. 5.

Pucci, Joseph, assignor to P. B. R. Manufacturing Co., Philadelphia, Pa. Folding paired legs for tables. 2,665,181, Jan. 5.

Puig Salsas, Anastasio, Badalona, Spain. Hand truck with automatic load support adjustment. 2,665,018, Jan. 5.

Pullman-Standard Car Manufacturing Company, assignee: *See*—
Peterson, Hartin F.

Pummer, Leo., Chicago, Ill., assignor to McGraw Electric Company, Milwaukee, Wis. Fuse link. 2,665,350, Jan. 5.

Putz, Rodney B., Burbank, assignor to Don Baxter, Inc., Glendale, Calif. Pharmaceutical closure. 2,665,024, Jan. 5.

Puzik, Otto V., Willoughby, assignor, by mesne assignments, to R. I. Schonitzer, Cleveland, Ohio. Door control mechanism. 2,665,160, Jan. 5.

Quaker Oats Company, The, assignee: *See*—
Rogers, Charles E.

Qualman, Alfred A., Charleston, Oreg. Liquid level. 2,664,645, Jan. 5.

Quast, Gerard J., assignor to W. C. 't Hart & Zn. Instrumenten-en Apparatenfabriek N. V., Rotterdam Netherlands. Hanging spinning or twisting pot. 2,664,696, Jan. 5.

Quist, Harold A., Swarthmore, assignor to Sun Oil Company, Philadelphia, Pa. Calibrated liquid storage gauge. 2,664,748, Jan. 5.

Radtke, Adelbert C.: *See*—
Courtney, Joseph F., and Radtke.

Rae, John, assignor of one-half to Blaxland Rae Pty. Limited, Sydney, New South Wales, Australia. Gauge for measuring or comparing diameters of cylindrical bodies. 2,664,642, Jan. 5.

Raiti, Angelo: *See*—
Manfredi, Dario, and Raiti.

Rashke, William W., Cleveland, Ohio. Reflector for hand lanterns. 2,665,373, Jan. 5.

Rasmussen, Borge A., Los Angeles, Calif. Passenger safety belt device for automobiles. 2,665,143, Jan. 5.

Ratchford, William P., Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of Agriculture. Making N-(1,1-dimethyl-3-hydroxybutyl)-lactamide. 2,665,308, Jan. 5.

Rawlings, John, Swissvale, assignor of one-half to R. T. Hadley, Sharon, Pa. Suspended roof structure for furnace heating chambers. 2,664,836, Jan. 5.

Rawson, Leonard J.: *See*—
Georgiev, Alexander M., and Rawson.

Ray, William A., North Hollywood, Calif., assignor to General Controls Co. Valve for controlling the admission of refrigerant to evaporators. 2,665,072, Jan. 5.

Reconstruction Finance Corporation, assignee: *See*—
Baldwin, Jesse A.

Redman Trailer Company, assignee: *See*—
Poole, Myron C.

Reflectone Corporation, The, assignee: *See*—
Brown, Forrest W.

Reich, Harold A., New York, N. Y. Shirt marker. 2,664,633, Jan. 5.

Reid, Roy T., Miami, Fla. Mannequin for wearing apparel. 2,665,040, Jan. 5.

Reineman, Howard, H., Brighton, N. Y. Holder for photographic sheets. 2,664,896, Jan. 5.

Reiner, Robert, Inc., assignee: *See*—
Lambach, Fritz, and Siegel.

Reliance Electric and Engineering Company, The, assignee: *See*—
Clark, John A.

Rem-Cru Titanium, Inc., assignee: *See*—
Evans, Richard E., Darby, and Owen.

Renner, Elmer J., Aurora, Ill., assignor to Stephens-Adamson, Mfg. Co. Natural frequency vibrating conveyor. 2,664,995, Jan. 5.

Rennie, Elwood, Red Bank, N. J., and W. W. Hyde, deceased, late of Eatontown, N. J., by J. H. Hyde, executor, Mayetta, Kans., assignors to the United States of America as represented by the Secretary of the Army. Wire stripper. 2,664,769, Jan. 5.

Republic Steel Corporation, assignee: *See*—
Darner, Frederic M., and Caine.
Graham, Marion E., Henderson, and Whitehouse.

Revere Corporation of America, assignee: *See*—
MacDonald, Dennison H.

Rex Research Corporation, assignee: *See*—
Hedenburg, Oscar F.

Reynolds, William B., J. E. Wicklatz, and T. J. Kennedy, Bartlesville, Okla., assignors to Phillips Petroleum Company. Emulsion polymerization of vinylidene compounds in the presence of trisubstituted hydroperoxymethanes having 10 to 30 carbon atoms. 2,665,269, Jan. 5.

Reynolds, William B., J. E. Wicklatz, and T. J. Kennedy, Bartlesville, Okla., assignors to Phillips Petroleum Company. Emulsion polymerization at low temperatures in the presence of certain trialkylhydroperoxy methanes. 2,665,272, Jan. 5.

Rhodes, Allen F., and W. S. Bachman, Houston, Tex. Line tension signal. 2,664,845, Jan. 5.

Rice, Philip K., Kenmore, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Process of and apparatus for low-temperature separation of air. 2,664,718, Jan. 5.

Rice, Philip K., and E. F. Yendall, Kenmore, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Process and apparatus for separating gas mixtures. 2,664,719, Jan. 5.

Richmond, Nelson R.: *See*—
Longfellow, Melvin E., and Richmond.

Riddle, Frank W., assignor to Aileen Mills Company, Biscoe, N. C. Float cutting method for looms. 2,664,920, Jan. 5.

Riddle, Frank W., assignor to Aileen Mills Company, Biscoe, N. C. Severing machine for forming tufted fabrics. 2,664,921, Jan. 5.

Ring, Harold H.: *See*—
McLaughlin, Robert C., and Ring.

Rinkema, David: *See*—
Norelius, Emil F., Toth, and Rinkema.

Ripley, Herbert S.: *See*—
Feeney, Thomas A., Glenn, Degenfelder, Crandall, and Ripley.

Riva, José V., Buenos Aires, Argentina. Device for dosing powdered or granular substances having dispensing conduit with a vibration-producing member carried thereby. 2,665,036, Jan. 5.

"Rivarossi" Officine Miniature Elettroferroviarie Soc. Acc. Semplice A. Rossi & F. Brunner, assignee: *See*—
Kreibich, Karl.

Roark, Glenn L., Los Angeles, Calif. Car side sun visor. 2,665,166, Jan. 5.

Roberts, John, Bradford, England. Attachment for feeding wool. 2,665,014.

Robertson, Edwin J., Chicago, Ill. Collapsible dispensing tube and closure therefor. 2,665,033, Jan. 5.

Robertson, H. H., Company, assignee: *See*—
Wiesmann, Joseph W.

Robinson, Eli A., Amsterdam, N. Y. Reinforced ball casing and manufacture. 2,665,132, Jan. 5.

Rockwell Manufacturing Company, assignee: *See*—
Niesemann, Fritz.

Rockwell Spring and Axle Company, assignee: *See*—
Super, Ralph K.

Roe, A. V., Canada Limited, assignee: *See*—
Boyd, Winnett, Meschino, and Jay.
Whitelaw, Walter B.

Roehm, Erwin G., Norwood, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Crankshaft pin hardening machine. 2,665,126, Jan. 5.

Roehrig, Frederick L. O., Yucaipa, Calif. Rearview mirror. 2,664,785, Jan. 5.

Rogers, Charles E., Akron, Ohio, assignor to The Quaker Oats Company, Chicago, Ill. Method and apparatus for determining moisture content or other variables in organic materials. 2,665,409, Jan. 5.

Rogers, Lawrence M., Chicago, and C. A. Siver, Hinsdale, assignors to The Liquid Carbonic Corporation, Chicago, Ill. Liquid dispenser. 2,665,046, Jan. 5.

Rohm & Haas Company, assignee: *See*—
McKeever, Charles H., and Fegley.

Roland, Charles T., Bethel, assignor to Hall Laboratories, Inc., Pittsburgh, Pa. Treatment of aqueous dispersions. 2,665,211, Jan. 5.

Roland, Charles T., Bethel Borough, assignor to Calgon, Inc., Pittsburgh, Pa. Thickening and stabilizing agents. 2,665,212, Jan. 5.

Rolle, Clifford J., Tuckahoe, and W. Van Kirk, Richmond Hill, assignors to Interchemical Corporation, New York, N. Y. Coating compositions for recording media. 2,665,262, Jan. 5.

Romby, Michael S., Roanoke, Va. Spring tool. 2,665,109, Jan. 5.

Roper, Geo D., Corporation, assignee: *See*—
McLaughlin, Robert C., and Ring.

Rose, Daniel M., Knoxville, Tenn. Apparatus for packaging lumber. 2,664,813, Jan. 5.

Ross, James C., Seattle, Wash. All-metal valve faucet. 2,665,106, Jan. 5.

Rotherm Engineering Company, Inc., assignee: *See*—
Shumaker, Ephraim H.

Rowe, Percy J., Martinez, Calif., assignor to The Mountain Copper Company, Ltd. Production of cuprous oxide. 2,665,192, Jan. 5.

Rowland, Ernest E., Akron, Ohio. Hydraulic power means and seal for pressure vessel agitators. 2,665,122, Jan. 5.

Rowland, Ernest E., Akron, Ohio. Polymerization control apparatus. 2,665,197, Jan. 5.

Rozeneff, Norma, Chicago, Ill. Toy telephone switchboard. 2,664,665, Jan. 5.

Russell Manufacturing Company, The, assignee: *See*—
Walters, Gustav, and Gatzke.

Russell, Stanley D., assignor to J. I. Case Company, Racine, Wis. Combination haying machine. 2,664,684, Jan. 5.

Russo, James E., assignor to Edwards Company, Inc., Norwalk, Conn. Variable speed governor. 2,664,974, Jan. 5.

Rynearson, Luther E., Riverside, Calif. Glare shield attachment for automobile headlights. 2,665,371, Jan. 5.

S & C Electric Company, assignee: *See*—
Kojis, John J.

Sabbagh, Mitchell, Quincy, assignor of one-half to H. Greenblatt, Newton Highlands, Mass. Auxiliary anti-slipping sole. 2,664,650, Jan. 5.

Sabreen, Bernard S.: *See*—
Hollander, Julius, and Sabreen.

Saco-Lowell Shops, assignee: *See*—
Anderson, Gordon C.

Safe Padlock and Hardware Company, The, assignee: *See*—
Hagstrom, Gotthard.

Saffir, Jacob A., Los Angeles, Calif. Dental cements. 2,665,218, Jan. 5.

Safran, Jacob, Los Angeles, Calif. Wheel traction device. 2,664,934, Jan. 5.

St. Croix Manufacturing Company, assignee: *See*—
Lehman, Albert W.

Salvatora, Joseph L., Pittsburgh, assignor to R. G. Ellas, Jennerstown, Pa. Piston for hydraulic brakes. 2,665,179, Jan. 5.

Sanborn, Robert H., Rock Creek, Ohio. Wheeled device for transporting boats. 2,664,577, Jan. 5.

Sander, Vernon A., University City, assignor, by mesne assignments, to A. B. Chance Company, Centralia, Mo. Fuse link. 2,665,349, Jan. 5.

Sands, Gordon C., Havre, Mont. Spraying attachment for airplanes. 2,665,092, Jan. 5.

Sarazin, Gilles F., Paris, France. Vibration damper. 2,664,763, Jan. 5.

Sarkes Tarzian, Inc., assignee: *See*—
Krepps, James E., Jr.

Saxer, August, assignee: *See*—
Kralowetz, Bruno.

Saykay, Joseph J., Sea Cliff, N. Y. Electrical keyboard. 2,665,336, Jan. 5.

Schacht, Roy A., Kirkwood, Mo. Marking machine. 2,664,985, Jan. 5.

Schaefer, Gustave C., Canton, Ohio. Fifth wheel for tractor trailers and the like. 2,665,177, Jan. 5.

Schaefer, Philippe J. F.: *See*—
Berghe, Georges J. L. V., and Schaefer.

Schaltegger, Hermann, Flamatt, assignor to Dr. A. Wander A. G., Bern, Switzerland. Photochemical production of 7-chlorocholesteryl ester. 2,665,245, Jan. 5.

Schaupp, A. W., assignee: *See*—
Ferrari, Ernest R.

Schemm, George A., assignor to Huron Portland Cement Company, Detroit, Mich. Aerating device for pulverulent material. 2,665,035, Jan. 5.

Schiavulli, Rudolph, and A. Capomacchio, Providence, R. I. Heel finishing machine. 2,664,680, Jan. 5.

Schlafender, Otto, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company. Bowling ball retarder. 2,665,131, Jan. 5.

Schlesinger, Arthur H.: *See*—
Mowry, David T., and Schlesinger.

Schlumberger Well Surveying Corporation, assignee: *See*—
Krasnow, Shelley, and Test.

Schmal, Alois H., Westfield, N. J., assignor to Mack Manufacturing Corporation, New York, N. Y. Wedge and shuttle type power divider. 2,664,766, Jan. 5.

Schmeisser, Martin: *See*—
Brock, Norbert, Kühas, and Schmeisser.

Schmidt, Benjamin F., Los Angeles, Calif. Hydraulic drilling lift and packer therefor. 2,665,149, Jan. 5.

Schmidt, Ernst O., Basel, Switzerland, assignor to A. R. Anderson, Springdale, Conn. Apparatus for testing the surface hardness of construction materials. 2,664,743, Jan. 5.

Schmitt, Joy B., and A. J. Attinger, assignors to The De Vilbiss Company, Toledo, Ohio. Atomizer. 2,665,170, Jan. 5.

Schmitz, Joseph, Jr.: *See*—
Drum, Harry S., Liedtke, and Schmitz.

Schneider, Gerald W.: *See*—
Schneider, Kenneth E. and G. W.

Schneider, Kenneth E. and G. W., Borger, Tex. Line holder. 2,664,636, Jan. 5.

Schonitzer, Rudolph I., assignee: *See*—
Allen, Edwin L.
De Vito, Angelo R.
Puzik, Otto V.
Wagner, Leonard J.

Schroder, Charles, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Type-action-controlled varied letter feed. 2,664,987, Jan. 5.

Schroeder, Paul, Hamburg, assignor to K. H. Bartels, Hamburg-Schenefeld, Germany. Hand truck with ball joint coupling. 2,665,139, Jan. 5.

Schrum, Ray O., West Fork, Mo. Stone picker. 2,664,682, Jan. 5.

Schuck, Oscar H., Belmont, Mass. Apparatus for determining the direction of wave energy. 2,665,416, Jan. 5.

Schuessler, Levyn R., University City, Mo. Machine for printing and perforating sales tickets using address plates. 2,664,815, Jan. 5.

Schuessler, Walter E., Chicago, Ill. Knitted cap and making the same. 2,664,725, Jan. 5.

Schuler, Frederic W., assignor to National Research Corporation, Cambridge, Mass. Apparatus for vapor coating. 2,664,853, Jan. 5.

Schuler, Frederic W., Cambridge, W. W. Mansir, Somerville, and W. O. Di Pietro, Watertown, assignors to National Research Corporation, Cambridge, Mass. Coating by vapor deposition. 2,665,229, Jan. 5.

Schultz, Everett M., Glenolden, Pa., assignor to Merck & Co., Inc. Gamma-hydroxy quarternary ammonium compounds. 2,665,278, Jan. 5.

Schulze, Chris C., Cranford, and C. Orenyo, Bloomfield, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Stabilization of the viscosities of vat dye pastes. 2,665,188, Jan. 5.

Schwartzman, Louis H.: *See*—
Woods, Gilbert F., Jr., and Schwartzman.

Schwartzman, Louis H., Pittsburgh, Pa., and G. F. Woods, Jr., Silver Spring, Md. Spirocyclohexylquinolines and preparation thereof. 2,665,276, Jan. 5.

Schwarz, Herbert E. E.: *See*—
Kurtz, Peter, and Schwarz.

Schweitzer, Harry, Toronto, Ontario, Canada. Pyrophoric lighter. 2,664,728, Jan. 5.

Scott, Ernest, Weslaco, Tex. Corn puffs. 2,665,214, Jan. 5.

Scott & Williams, Incorporated, assignee: *See*—
McDonough, John J.

Seeler, Henry, Dayton, Ohio, assignor to the United States of America as represented by the Secretary of the Air Force. Positive pressure resuscitator. 2,664,881, Jan. 5.

Seidman, Martin, Chicago, Ill., and K. P. Link, Middleton, assignors to Wisconsin Alumni Research Foundation, Madison, Wis. Chemical compounds and preparing the same. 2,665,281, Jan. 5.

Seifter, Joseph: *See*—
Bruce, William F., and Seifter.

Seulen, Gerhard W., Remscheid, assignor to Deutsche Edelstahlwerke Aktiengesellschaft, Krefeld, Germany. Inductor for the hent treatment of workpieces, especially crankshafts. 2,665,367, Jan. 5.

Sharpe, Arthur H., West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Automatic control for accounting machines. 2,665,064, Jan. 5.

Sharples Chemicals Inc., assignee: *See*—
Newcomer, Jack S.

Shaw, Louis E., Newark, N. J. Automatic belt tension take-up. 2,664,757, Jan. 5.

Shaw, Thomas, Cranston, R. I., assignor to Stackbin Corporation. Sliding storage rack. 2,665,097, Jan. 5.

Shell Development Company, assignee: *See*—
Bradley, Theodore F.
Graham, Robert.
McMillan, Frank M., and Sullivan.

Shilling, Walter F.: *See*—
Lloyd, Peter, Shilling, Brown, and Boulter.

Shomber, Kerian J., Oakland, Calif., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastening device. 2,664,611, Jan. 5.

Shontz, William H., Lewistown, Pa., assignor to American Viscose Corporation, Wilmington, Del. Thread guide pressure regulator. 2,665,076, Jan. 5.

Shulman, Bernard B., assignor to M. Freedman, Philadelphia, Pa. Waterproof garment. 2,664,895, Jan. 5.

Shumaker, Ephraim H., Sterling, assignor to Rotherm Engineering Company, Inc., Chicago, Ill. Quickly detachable swivel joint. 2,665,145, Jan. 5.

Sider, Nicholas M.: *See*—
Baumann, Martin, and Sider.

Siegel, Walter: *See*—
Lambach, Fritz, and Siegel.

Siegrist, Bruno, and C. Wakker, assignor to Usine Genevoise de Degrossissage d'Or, Geneva, Switzerland. Soldering device. 2,664,844, Jan. 5.

Siemens-Schuckertwerke Aktiengesellschaft, assignee: *See*—
Duffing, Paul.

Simjian, Luther G., Riverside, Conn. Tie rack. 2,665,011, Jan. 5.

Simons, Howard A., Vancouver, British Columbia, Canada. Hydraulic log-barker having log-holddown rollers and confronting rotary spray heads. 2,664,929, Jan. 5.

Simons, John K., Toledo, Ohio, assignor, by mesne assignments, to Allied Chemical & Dye Corporation, New York, N. Y. Preparation of infusible resins of superior toughness and flexibility from a ketodiguanamine and formaldehyde. 2,665,260, Jan. 5.

Sims, Leslie J. *See*—
Evans, Wallace A. and D. W., and Sims.

Sinclair, George: *See*—
Smith, Carl E., and Sinclair.

Singer Manufacturing Company, The, assignee: *See*—
Hale, Arthur N., Koenig, and Edwards.

Siper S. A., assignee: *See*—
D'Ozouville, Francois.

Sivalls Tanks, Inc., assignee: *See*—
Lovelady, Isaac W., and Kroeker.

Siver, Chester A.: *See*—
Rogers, Lawrence M., and Siver.

Slomer, Joseph J., assignor to Goodman Manufacturing Company, Chicago, Ill. Cable reel. 2,665,081, Jan. 5.

Slui, Jacob G.: *See*—
Van de Poll, Abraham N., Tau, Geeven, Eernst, and Slui.

Small, C. T., Manufacturing Company, assignee: *See*—
Mundy, William J.

Smart, Wilbur J., Springville, Utah, assignor to United States Steel Corporation. Fastening device. 2,665,150, Jan. 5.

Smith, A. O., Corporation, assignee: *See*—
Wepfer, George R.

Smith, Carl E., Cleveland, Ohio, and G. Sinclair, Toronto, Ontario, Canada, assignors, by mesne assignments, of one-half to said Smith and one-half to United Broadcasting Company. Slotted cylindrical antenna. 2,665,381, Jan. 5.

Smith, Carl E., Cleveland, Ohio, and G. Sinclair, Toronto, Ontario, Canada, assignors, by mesne assignments, of one-half to said Smith and one-half to United Broadcasting Company. Three slot cylindrical antenna. 2,665,382, Jan. 5.

Smith-Corona Inc., assignee: *See*—
Hill, Laurence B.

Smith Drum & Company, assignee: *See*—
Drum, Harry S., Liedtke, and Schmitz.

Smith, Franklin S., Hamden, Conn. Method and apparatus for producing shock waves. 2,664,850, Jan. 5.

Smith Pivot Window, Inc., assignee: *See*—
Smith, Regenald H.

Smith, Regenald H., St. Albans, assignor to Smith Pivot Window, Inc., New York, N. Y. Sliding window structure. 2,664,600, Jan. 5.

Smith, Roy A., New York, N. Y., assignor, by mesne assignments, to Feathercombs, Inc. Hair curl holding clip. 2,664,883, Jan. 5.

Smith, Waldo W., Warwick Neck, and L. A. Prescott, Jr., Pawtucket, assignors to Tower Iron Works, Providence, R. I. Slasher with interchangeable press rolls. 2,664,616, Jan. 5.

Smits, Hubertus J., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Mechanical drive. 2,664,758, Jan. 5.

Societe Anonyme de Distribution du Gas (Distrigaz), assignee: *See*—
Berghe, Georges J. L. V., and Schaefer.

Socke, John E., Pelham Manor, assignor to American Can Company, New York, N. Y. Control mechanism for article transfer devices. 2,665,013, Jan. 5.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Augustine, Frederick B.

Sokolik, Edward, New Brighton, Minn. Body lowering apparatus. 2,665,111, Jan. 5.

Sonesson, Georg: *See*—
Arvidsson, Algot, Elmlund, and Sonesson.

Sonoco Products Company, assignee: *See*—
Dunlap, Charles K.

Sooter, Joyce M., Winfield, Kans. Book end. 2,665,010, Jan. 5.

Sorensen, Clarence T., Lakewood, Ohio. Building surfacing material. 2,664,835, Jan. 5.

Sorensen, George C., Houston, Tex., assignor to M. H. Detrick Company, Chicago, Ill. Permanent hinged bulkhead. 2,664,838, Jan. 5.

Southwick, Samuel G., Springfield, Ill. Multiple purpose hematocrit pipette. 2,664,752, Jan. 5.

Spang & Company, assignee: *See*—
Spang, Ferdinand J.

Spang, Ferdinand J., assignor to Spang & Company, Butler, Pa. Well fishing socket or tool. 2,665,164, Jan. 5.

Sparks, Joseph W.: *See*—
Knobloch, James O., and Sparks.

Speake, Elmer J., Los Angeles, Calif. Stropper and honer. 2,664,677, Jan. 5.

Spear, Detmar D., assignor to The Kenmar Manufacturing Company, East Palestine, Ohio. Adjustable chair with leg supporting platform. 2,664,942, Jan. 5.

Sperry Corporation, assignee: *See*—
Best, Albert M.

Spiegel, Nell, assignee: *See*—
Friedman, Max.

Spieser, Louis, assignor to Nibbit Products Association Ltd., Zurich, Switzerland. Manufacture of foodstuffs. 2,665,208, Jan. 5.

Spiess, Newton E., Jr.: *See*—
Horton, Ralph, Spiess, and Weaver.

Spitz, Karl, Cleveland, Ohio. Effecting nonfusion welds with a steel weldrod. 2,664,622, Jan. 5.

Stackbin Corporation, assignee: *See*—
Shaw, Thomas.

Standard Car Truck Company, assignee: *See*—
Leese, Charles P.

Standard Oil Company, assignee: *See*—
Johnson, Carl E., and Llen.
Johnson, Everett A.
Knobloch, James O., and Sparks.

Standard Oil Development Company, assignee: *See*—
Bennett, Rufus B.
Cier, Harry E.
Herbst, Walter A.
Murtin, Homer Z., and Hemminger.
Molstedt, Byron V.
Odell, William W.
Wood, Robert S.

Standard Railway Equipment Manufacturing Company, assignee: *See*—
Swann, James S.

Standard Register Company, The, assignee: *See*—
Metzner, Albert W.

Stange, Ferdinand F., assignor to Foster Machine Company, Westfield, Mass. Stop motion for yarn winding machines. 2,665,077, Jan. 5.

Stanitz, Jacques, Warren, assignor to Mullins Manufacturing Corporation, Salem, Ohio. Back trim and sealing molding. 2,665,182, Jan. 5.

Stanley, John P., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Treatment of wool grease. 2,665,282, Jan. 5.

Stanton, Austin N., Garland, Tex. Nozzle with ram jet action. 2,665,052, Jan. 5.

Star, John E.: *See*—
Brink, Frank, and Star.

Star Sprinkler Corporation, assignee: *See*—
Barz, Joseph J.

Starcevich, George, Chicago, Ill. Adjustable cap for structural columns. 2,664,977, Jan. 5.

Starck, Halvar G., Redondo Beach, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Breather tube. 2,665,091, Jan. 5.

Starline Inc., assignee: *See*—
Ferris, Robert G.

Starolis, Agatha H., San Francisco, Calif. Finger ring protector. 2,665,042, Jan. 5.

Stauffer, Robert A.: *See*—
Godley, Philip, 2nd., Clough, and Stauffer.

Stauffer, Robert A., Weston, assignor to National Research Corporation, Cambridge, Mass. Apparatus and process for vapor coating. 2,665,228, Jan. 5.

Steel Products Engineering Company, The, assignee: *See*—
Getz, Delmond L., and Lafferty.

Steenrod, Alex H., assignor to Woodmanse Mfg. Co., Freeport, Ill. Pump unit. 2,664,823, Jan. 5.

Stehling, Chas. H., Company, assignee: *See*—
Stehling, Ralph J.

Stehling, Ralph J., assignor to Chas. H. Stehling Company, Milwaukee, Wis. Securement for hatch covers and the like. 2,665,161, Jan. 5.

Stein, Wilhelm, Wetzlar (Lahn), and F. Gath, Altenkirchen ub. Weilburg, assignors to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Curtain shutter camera with flash synchronizing device. 2,664,796, Jan. 5.

Steinacker, Peter, and A. Böyng, Oelde (Westphalia), Germany. Countercurrent extraction centrifuge. 2,665,061, Jan. 5.

Stempel, Arthur: *See*—
Aeschlimann, John A., and Stempel.

Stephens-Adamson Mfg. Co., assignee: *See*—
Renner, Elmer J.

Sterling Drug Inc., assignee: *See*—
Zimmermann, Frederick J.

Stievater, Willard C., Tonawanda, N. Y. Spray forming shower tube. 2,665,171, Jan. 5.

Stokes, Anges M.: *See*—
Stokes, Howard K., and A. M.

Stokes, Howard K. and A. M., Allenhurst, N. J. Dishwashing machine. 2,664,904, Jan. 5.

Stolze, Ralph T.: *See*—
Clark, Frank W., and Stolze.

Storey, Clifford G., assignor to Perfect Circle Corporation, Hagerstown, Ind. Gauge. 2,664,638, Jan. 5.

Strachan, John M., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Work loading mechanism. 2,664,790, Jan. 5.

Strawinski, Raymond J., Long Beach, Calif., assignor to Texaco Development Corporation, New York, N. Y. Prospecting. 2,665,237, Jan. 5.

Strnad, Frank J., Cedar Rapids, Iowa, assignor to Link-Belt Speeder Corporation. Unloading valve. 2,664,908, Jan. 5.

Stuart, Joseph, III, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Aircraft engine and propeller control system. 2,664,959, Jan. 5.

Sullivan, Robert D.: *See*—
McMillan, Frank M., and Sullivan.

Summers, Otto M.: *See*—
Fisler, William C., and Summers.

Summit Steel Products, Inc., assignee: *See*—
Myers, Clarence E.

Sun Oil Company, assignee: *See*—
Bates, John R.
Coppock, Walter J.
Hollibaugh, William C.
Quist, Harold A.
Thayer, Clarence H.
Weiss, Eric A., and Wright.
Winterhalter, Alfred C.

Sunbeam Corporation, assignee: *See*—
Jepson, Ivar.

Sundstrom, Leonard E., Litchfield, Nebr. Multicylinder pumping system. 2,664,825, Jan. 5.

Sundy, John D.: *See*—
Ingraham, Harold O. C., and Sundy.

Super, Ralph K., Detroit, Mich., assignor, by mesne assignments, to Rockwell Spring and Axle Company, Coraopolis, Pa. Brake mechanism 2,664,972, Jan. 5.

Sutter, Edward R., Chicago, Ill., assignor to Beau-T-Form Foundations, Inc. Man's garment. 2,664,888, Jan. 5.

Svabek, John E., Jr., Cicero, assignor to Crane Co., Chicago, Ill. Diaphragm sealed valve. 2,665,105, Jan. 5.

Swann, Edward R., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,664,965, Jan. 5.

Swann, James S., Homewood, assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Cover construction for hopper cars. 2,664,832, Jan. 5.

Sway, Henry C., Louisville, Ky., assignor to General Electric Company. Dishwasher. 2,664,903, Jan. 5.

Swezey, Arthur W., Garden Grove, Calif., assignor to The Dow Chemical Company, Midland, Mich. Method and composition for the control of undesirable vegetation. 2,665,204, Jan. 5.

Sydow, Ernest D., St. Louis, Mo., assignor to John E. Mitchell Company, Dallas, Tex. Heel forming machine. 2,664,563, Jan. 5.

Sylvania Electric Products Inc., assignee: *See*—
Nauth, Edgar K.

Syncro Machine Company, assignee: *See*—
Bruestle, Carl O.

Szpilberg, Chaim M., Montreal, Quebec, Canada Carpet gripper. 2,664,589, Jan. 5.

Talbert, Austin G., assignor to Talbert Construction Equipment Company, Lyons, Ill. Vehicle having a removable section. 2,665,142, Jan. 5.

Talbert Construction Equipment Company, assignee: *See*—
Talbert, Austin G.

Talbot, Richard L., Oshkosh, Wis. Container. 2,664,854, Jan. 5.

Talboys, Henry H., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Removing ballast with a vertical boom cribbing machine. 2,664,652, Jan. 5.

Tannen, Michael, New York, N. Y. Rolling toy. 2,664,669, Jan. 5.

Tanners' Research Corporation, assignee: *See*—
Griffin, Robert H.

Tarleton, Fred L.: *See*—
Hubacker, Earl F., and Tarleton.

Taylor, Lucille I., Lincoln, Nebr. Excrement disposal device. 2,664,573, Jan. 5.

Taylor, Taylor & Hobson Limited, assignee: *See*—
Cook, Gordon H.

Taylor-Winfield Corporation, The, assignee: *See*—
Hansen, Hans H.

Teague, Walter D., Jr., Alpine, assignor to Bendix Aviation Corporation, Teterboro, N. J. Vapor pressure starter for internal-combustion engines. 2,664,710, Jan. 5.

Teichmann, Charles F., Crestwood, assignor to Texaco Development Corporation, New York, N. Y. Control system for locking means. 2,665,153, Jan. 5.

Temco, Inc., assignee: *See*—
Bourner, Howard L.

Tenenbaum, Leon E.: *See*—
Mast, George W., and Tenenbaum.

Test, Meyer J.: *See*—
Krasnow, Shelley, and Test.

Texaco Development Corporation, assignee: *See*—
Strawinski, Raymond J.
Teichmann, Charles F.

Texas Company, The, assignee: *See*—
Herzog, Gerhard.
Truitt, James K., and Arnold.

Thayer, Clarence H., Wallingford, assignor to Sun Oil Company, Philadelphia, Pa. Apparatus for pneumatically elevating contact material. 2,665,172, Jan. 5.

Thomas, Laurence H., Birmingham, assignor to American Electrical Heater Company, Detroit, Mich. Electrically heated tool. 2,665,364, Jan. 5.

Thomas, Laurence H., Birmingham, assignor to American Electrical Heater Company, Detroit, Mich. Electrically heated tool. 2,665,365, Jan. 5.

Thompson, Clarence S., and G. E. Clark, Long Beach, Calif. Combination pressure and vacuum tank. 2,664,911, Jan. 5.

Thompson Products, Inc., assignee: *See*—
Anderson, David E.
Booth, James H.

Thrasher, Chester M., Paulding, Ohio. Camera gun. 2,664,797, Jan. 5.

Thurber, William S.: *See*—
Ohlmann, Edward O., and Thurber.

Thurnauer, Hans, and M. A. Murray, assignors to American Lava Corporation, Chattanooga, Tenn. Ceramic material. 2,665,219, Jan. 5.

Timken Roller Bearing Company, The, assignee: *See*—
Green, Walter F.

Tinnerman Products, Inc., assignee: *See*—
Flora, Laurence H., and Balint.

Tipton, Dale W., Lawndale, Calif. Mechanical means for propelling field sprinkling apparatus. 2,665,169, Jan. 5.

Tissol, Carolyn E.: *See*—
Goodhue, Lyle D., and Tissol.

Tomarin, Harry A., Cincinnati, assignor to Loroco Industries Incorporated, Reading, Ohio. Combination shirt wrapper and collar support. 2,665,051, Jan. 5.

Tomchek, Walter R., San Francisco, Calif. Holding device for flange bolts. 2,664,770, Jan. 5.

Tompkins, George M., Parktown West, Johannesburg, Union of South Africa. Retractable road wheel assembly for vehicle trailers. 2,665,138, Jan. 5.

Tone, Frederick F., Holley, assignor to Graflex, Inc., Rochester, N. Y. Photographic flash lighting and synchronizing system. 2,664,795, Jan. 5.

Torr, John M., New York, N. Y., assignor to Phillips Screw Company. Plastic bonding machine. 2,664,938, Jan. 5.

Toth, Michael: *See*—
Norelius, Emil F., Toth, and Rinkema.

Tower Iron Works, assignee: *See*—
Smith, Waldo W., and Prescott.

Tracy, Mearl V., Pasadena, Calif. Adjustable tool supporting stand. 2,664,924, Jan. 5.

Tree, Charle, Racine Wis. Milling machine ram saddle-wedge lock. 2,664,789, Jan. 5.

Trico Products Corporation, assignee: *See*—
Olshet, John R.

Trulitt, James K., Wappingers Falls, and G. B. Arnold, Glenham, assignors to The Texas Company, New York, N. Y. Recovery of oil from shale. 2,665,238, Jan. 5.

Tuck, James A., Philadelphia, Pa., assignor, by mesne assignments, to L. Krantz, New York, N. Y. Machine for automatically producing apparel belts and like strap bodies. 2,664,732, Jan. 5.

Turner, George L., assignor to Clark Equipment Company, Buchanan, Mich. Supporting mechanism for rotating axle housings for welding. 2,664,843, Jan. 5.

Turner, Raymond H., St. Louis, Mo. Dancing toy. 2,664,668, Jan. 5.

Twerdahl, Edward A., Evanston, Ill. Mopping apparatus. 2,664,584, Jan. 5.

Tyerman, David J., Burbank, Calif. Toe-in change indicator for automobiles. 2,664,644, Jan. 5.

Underwood Corporation, assignee: *See*—
Schroder, Charles.
Sharpe, Arthur H.

Union Carbide and Carbon Corporation, assignee: *See*—
Rice, Philip K.
Rice, Philip K., and Yendall.

United Aircraft Corporation, assignee: *See*—
Longfellow, Melvin E., and Richmond.

United Broadcasting Company, assignee: *See*—
Smith, Carl E., and Sinclair.

United-Carr Fastener Corporation, assignee: *See*—
Shomber, Kerlan J.

United Shoe Machinery Corporation, assignee: *See*—
Campbell, Charles R., Jr.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Gifford, John F., and Garden.
Yockey, Hubert P.

United States Rubber Company, assignee: *See*—
Brooks, Marvin C., and Ladd.
Buckwalter, Howard M.
Corney, Harold D.
Devorss, Joseph W., Jr.
Hirsch, Alf C., and Wikle.

United States Steel Corporation, assignee: *See*—
Cataldo, Anthony M.
Neish, Richard A.
Smart, Wilbur J.

United Tool & Die Company, The, assignee: *See*—
La Monica, Frank.

University of California, Regents of the, The, assignee: *See*—
Cyr, Rob R.

University of Minnesota, Regents of the, assignee: *See*—
Howell, William S., and Irwin.

Usine Genevoise de Degrossissage d'Or, assignee: *See*—
Siegrist, Bruno, and Wakker.

Vadnais, Alex H., St. Paul, Minn. Alarm switch. 2,665,342, Jan. 5.

Vahlstrom, Carl A., New Britain, and P. J. Walther, Newington, assignors to The American Hardware Corporation, New Britain, Conn. Container latch and lock. 2,664,735, Jan. 5.

Van Alen, De Witt T., Delavan, and H. G. Foote, Fontana, Wis., assignors to The George W. Borg Corporation, Chicago, Ill. Potentiometer. 2,665,355, Jan. 5.

Van de Poll, Abraham N. J., G. M. A. C. Geeven, G. E. and J. G. Slui, Dordrecht, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Hot-gas reciprocating engine with means for augmenting the pressure medium and supplying combustion air. 2,664,698, Jan. 5.

Van Kirk, William: *See*—
Rolle, Clifford J., and Van Kirk.

Van Koughnet, Edward, Beaurepaire, Quebec, Canada. Safety razor. 2,664,625, Jan. 5.

Van Orden, Millard E., Ithaca, N. Y. Television receiver. 2,665,419, Jan. 5.

Variflame Corporation, The, assignee: *See*—
Woodruff, Henry S.

Veeder-Root Incorporated, assignee: *See*—
Vroom, Harold B.

Vermeulen, Roelof, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device for driving tapes. 2,665,130, Jan. 5.

Victor Adding Machine Co., assignee: *See*—
Lippert, Erhard M.

Virason Sociedad de Responsabilidad Limitada, assignee: *See*—
Orzábal, Raúl M.

Vi-Spring Products Limited, assignee: *See*—
Newborn, John T.

Vogel, Hilmond O., Chicago, Ill., assignor to International Harvester Company. Collapsible double-faced pallet. 2,665,096, Jan. 5.

Voskresenski, Jacob D., Chicago, Ill. Steam and dry iron. 2,664,653, Jan. 5.

Vroom, Harold B., assignor to Veeder-Root Incorporated, Hartford, Conn. Preselector mechanism for liquid dispensing apparatus. 2,665,030, Jan. 5.

Vuilleumier, Marcel, Cully, assignor to Parechoc S. A., Le Sentier, Canton of Vaud, Switzerland. Timepiece bearing. 2,664,697, Jan. 5.

W. C. 't Hart & Zn. Instrumenten-en Apparatenfabriek N. V., assignee: *See*—
Quast, Gerard J.

Waber, James W., Chicago, Ill. Inner tube for pneumatic tires. 2,664,936, Jan. 5.

Wagner, Leonard J., North Olmsted, assignor, by mesne assignments, to R. I. Schonitzer, Cleveland, Ohio. Door control mechanism. 2,665,158, Jan. 5.

Wakker, Charles: *See*—
Siegrist, Bruno, and Wakker.

Wales, Nathaniel B., Jr., Morristown, N. J. Electric stimulator for artificial respiration. 2,664,880, Jan. 5.

Walker, Benjamin M., Lenox, Mass., assignor to General Electric Company. Electric capacitor. 2,665,400, Jan. 5.

Walker, Delos A., and G. H. Gross, Memphis, Tenn., assignors to International Harvester Company. Cotton picker doffer mechanism adjusting means. 2,664,689, Jan. 5.

Walker, John L., Muskegon, Mich, assignor to Continental Motors Corporation. Shutter mounting for engine cooling systems. 2,664,862, Jan. 5.

Walker, Neville E., assignor to American Junior Aircraft Company, Portland, Oreg. Acrobatic toy airplane. 2,664,666, Jan. 5.

Wallace, Elwyn C.: *See*—
Holdaway, George H., and Wallace.

Wallace, William E., Winter Park, Fla. Oxygen therapy tent. 2,664,890, Jan. 5.

Waller, Fred, Huntington Station, assignor, by mesne assignments, to The Henry Booth Methods Corporation, New York, N. Y. Photographically correcting the photographic images of objects. 2,664,780, Jan. 5.

Waller, Fred, Huntington Station, assignor, by mesne assignments, to The Henry Booth Methods Corporation, New York, N. Y. Photographic apparatus for correcting negatives during printing thereof. 2,664,781, Jan. 5.

Waller, Fred, Huntington Station, assignor, by mesne assignments, to The Henry Booth Methods Corporation, New York, N. Y. Apparatus for measuring objects by photography. 2,664,784, Jan. 5.

Wallerstein Company, Inc., assignee: *See*—
Gray, Philip P.

Walter, Edward T., Wollaston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Material feeding machine. 2,665,006, Jan. 5.

Walter, Hellmuth, Upper Montclair, N. J. Rotary blower. 2,665,057, Jan. 5.

Walters, Gustav, and E. F. Gatzke, assignors to The Russell Manufacturing Company, Middletown, Conn. Loom harness-strap. 2,664,922, Jan. 5.

Walther, Philip J.: *See*—
Vahlstrom, Carl A., and Walther.

Wander, Dr. A., A. G., assignee: *See*—
Schaltegger, Hermann.

Ward Machine Company, Inc., assignee: *See*—
Arey, Ralph G.

Warmon, Nils M., assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Refrigeration apparatus and method employing cold accumulator. 2,664,716, Jan. 5.

Warshaw, Nathanlel, Brookline, assignor to Market Forge Company, Everett, Mass. Lifting truck. 2,664,970, Jan. 5.

Wassef, Atalla M., Giza (Ormon), Egypt. Apparatus for effecting a desired sequence of operations. 2,665,067, Jan. 5.

Wasserman, David, Irvington, N. J., assignor to The Harvel Corporation. Glycidyl ethers of condensation products of certain aromatic hydroxy compounds with phenols having unsaturated hydrocarbon side chains. 2,665,266, Jan. 5.

Weaver, Kenneth R.: *See*—
Horton, Ralph, Spiess, and Weaver.

Weaving, John H., Moseley, Birmingham, and E. R. Payne, Kings Heath, Birmingham, assignors to The Austin Motor Company, Limited, Birmingham, England. Clutch and gear change operating system for automobiles. 2,664,980, Jan. 5.

Wegman, Edwin H., Brooklyn, N. Y. Brassière. 2,664,568, Jan. 5.

Weidenhoff, Joseph, Incorporated, assignee: *See*—
Hedinger, Ernst.

Weinfurt, William J., Wauwatosa, assignor to McGraw Electric Company, Milwaukee, Wis. Circuit breaker. 2,665,396, Jan. 5.

Weiss, Eric A., Springfield, and J. R. Wright, Morton, assignors to Sun Oil Company, Philadelphia, Pa. Magnetic measuring method and apparatus. 2,665,332, Jan. 5.

Wellworthing Piston Rings Limited, assignee: *See*—
Howlett, John W.

Welter, Otto, Locarno-Orselina, Switzerland. Accumulator cell. 2,665,325, Jan. 5.

Weninger, Frank L., assignor to Bell & Howell Company, Chicago, Ill. Control for photographic copying apparatus. 2,664,782, Jan. 5.

Wepfer, George R., assignor to A. O. Smith Corporation, Milwaukee, Wis. Electrode motion. 2,665,363, Jan. 5.

Westinghouse Electric Corporation, assignee: *See*—
Edwards, Andrew W., and Beach.
Wyman, Burton A., and Winkler.

Weston, Charles F.: *See*—
Congdon, William J., and Weston.

White, John C., Darien, Conn. Flame analyzer and flame source therefor. 2,664,779, Jan. 5.

White, William S., Denver, Colo. Automatic hydraulic valve. 2,664,912, Jan. 5.

Whitehouse, Irving P.: *See*—
Graham, Marion E., Henderson, and Whitehouse.

Whitelaw, Walter B., Toronto, Ontario, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Preheater and vaporizer for gas turbine engines. 2,664,703, Jan. 5.

Whittle, Charles E., Brunswick, Ga. Self-loading and unloading vehicle for palletized loads. 2,665,020, Jan. 5.

Wickes, David R., assignor to Detroit Surfacing Machine Company, Detroit, Mich. Pneumatic sanding device. 2,664,678, Jan. 5.

Wickham, Henry P.: *See*—
Howard, Everett W., Osborne, and Wickham.

Wicklatz, John E.: *See*—
Reynolds, William B., Wicklatz, and Kennedy.

Wiebe, Walter, Hollister, Calif. Apparatus for picking up prunes and the like. 2,664,691, Jan. 5.
Wiesmann, Joseph W., assignor to H. H. Robertson Company, Pittsburgh, Pa. Underfloor wire distributing system. 2,665,027, Jan. 5.
Wiesmann, Joseph W., assignor to H. H. Robertson Company, Pittsburgh, Pa. Wire distributing floor structure. 2,665,147, Jan. 5.
Wight, Defano, Jr., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Attachment lock for industrial trucks. 2,665,021, Jan. 5.
Wikle, George F.: *See*—
Hirsch, Alf C., and Wikle.
Wilkinson, Joseph M., Jr., Easton, and J. P. Barker, Media, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Copolymers of 1-acyloxy-3-buten-2-one. 2,665,267, Jan. 5.
Wilkinson, Leonard A., assignor to Argus Cameras, Inc., Ann Arbor, Mich. Camera with film wind and shutter set interlock. 2,664,799, Jan. 5.
Willard Storage Battery Company, assignee: *See*—
Lormor, Henry W.
Williams, Charles R., assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Add-subtract binary counter circuit. 2,665,068, Jan. 5.
Williams, Norman H., assignor to Humphreys & Glasgow Limited, Westminster, England. Manufacture of carbureted water gas and in carburetors for use therein. 2,665,201, Jan. 5.
Willinger, Harding W., and H. N. Nestler, New York, N. Y. Filter stem for use with the filter of an aquarium. 2,665,250, Jan. 5.
Willke, Louis G., Barnsdall, and I. L. Malm, Tallant, Okla., and H. L. Malakoff, Yonkers, N. Y., assignors to Cities Service Oil Company, Bartlesville, Okla. Concentration of aqueous formaldehyde solutions. 2,665,241, Jan. 5.
Willoughby, Lively B.: *See*—
Armstrong, Lowell, Willoughby, Morton, and How.
Wilmot Castle Company, assignee: *See*—
Greppin, Ernest H.
Wilson, Walter H., Mansfield, Ohio. Shockproof locking electrical plug and receptacle. 2,665,341, Jan. 5.
Winkelman, Albert A., Seattle, Wash. Fishline snap fastener. 2,664,612, Jan. 5.
Winkler, Charles, New York, N. Y. Spray booth and fire extinguishing mechanism for the same. 2,664,955, Jan. 5.
Winkler, Frederic C.: *See*—
Wyman, Burton A., and Winkler.
Winona Tool Manufacturing Company, assignee: *See*—
Fuglie, Elmer A.
Winterhalter, Alfred C., Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa. Radiant energy system for distance measuring. 2,665,420, Jan. 5.
Wisconsin Alumni Research Foundation, assignee: *See*—
Seidman, Martin, and Link.
Wiseman, William A., assignor to Continental Motors Corporation, Muskegon, Mich. Engine control system. 2,664,870, Jan. 5.
Witt, Robert H., Royal Oak, assignor to Dearborn Motors Corporation, Birmingham, Mich. Beater assembly for cotton harvesters. 2,664,686, Jan. 5.
Wong, Lan J., Cincinnati, Ohio. Wall outlet and fixture mounting. 2,665,330, Jan. 5.
Wood, Robert S., Elizabeth, N. J., assignor to Standard Oil Development Company. Recovering vapors and solids from gas streams. 2,664,968, Jan. 5.
Woodall Industries, Inc., assignee: *See*—
Greig, James W.
Woodmanse Mfg. Co., assignee: *See*—
Steenrod, Alex H.
Woodruff, Henry S., Newark, N. J., assignor to The Variflame Corporation, White Plains, N. Y. Baseboard radiator enclosure. 2,665,121, Jan. 5.
Woods, Gilbert F., Jr.: *See*—
Schwartzman, Louis H., and Woods.
Woods, Gilbert F., Jr., and L. H. Schwartzman, Silver Spring, Md. Spirocyclohexanes and preparation thereof. 2,665,296, Jan. 5.
Woods, Gilbert F., Jr., and L. H. Schwartzman, Silver Spring, Md. Spirocyclohexanes and preparation thereof. 2,665,302, Jan. 5.
Woods, Gilbert F., Jr., and L. H. Schwartzman, Silver Spring, Md. Spirocyclohexanes and preparation thereof. 2,665,310, Jan. 5.
Woodward, James P., Prospect Plains, N. J. Combined scarifying and digging attachment for bulldozers. 2,664,651, Jan. 5.
Woolslayer, Homer J., C. Jenkins, and C. D. Iddings, Tulsa, Okla., and E. A. Campbell, Wexford, assignors to Lee C. Moore Corporation, Pittsburgh, Pa. Portable well servicing equipment. 2,664,976, Jan. 5.
Wright, J. Rondle: *See*—
Weiss, Eric A., and Wright.
Wüfing, Johann A., assignee: *See*—
Fleischmann, Richard.
Württembergische Metallwarenfabrik, assignee: *See*—
Cüppers, Paul K. A.
Wyman, Burton A., and F. C. Winkler, Cleveland, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Incandescent spotlight luminaire. 2,665,372, Jan. 5.
Yendall, Edward F.: *See*—
Rice, Philip K., and Yendall.
Yockey, Hubert P., Berkeley, Calif., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Ion accelerating and focusing system. 2,665,384, Jan. 5.
Young, Gerald W., Schenectady, N. Y., and J. L. Hain, Bethlehem, Pa., assignors to General Electric Company. Providing aluminum with a flexible oxide coating. 2,665,243, Jan. 5.
Young, Louis C., Bolton, Mass. Graphic recording device. 2,664,648, Jan. 5.
Young, Louis H., Auburndale, Mass., assignor to The Gillette Company. Magazine and blade combination. 2,664,999, Jan. 5.
Zielinski, Edward A., Berwyn, assignor of one-half to J. S. Kishel, Brookfield, Ill. Harmonica apparatus. 2,664,775, Jan. 5.
Zimmermann, Frederick J., Wausau, Wis., assignor to Sterling Drug Inc., New York, N. Y. Waste disposal. 2,665,249, Jan. 5.
Zitomer, Abe, assignor to Alumatic Corporation of America, Milwaukee, Wis. Window structure. 2,664,599, Jan. 5.
Zozulin, Igor, and G. J. Okulitch, Vancouver, British Columbia, Canada. Silent magnetic switch. 2 665,344, Jan. 5.
Züblin, Julius, Glarisegg-Steckborn, Switzerland. Container. 2,665,037, Jan. 5.
Zukosky, Albert W., Burnsville, N. C. Treating froth flotation concentrates. 2,665,004, Jan. 5.
Zunick, Michael J., Greenfield, and H. W. Goodrick, Brookfield, Wis., assignors to General Electric Company. Anode target. 2,665,390, Jan. 5.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 5TH DAY OF JANUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Apparatus for removing bark from logs. R. D. Pauley and L. A. McCanna. Re. 23,765, Jan. 5.
Backfill tamper. J. W. Brown. Re. 23,763, Jan. 5.
Washing machine of the cylindrical container, end discharge type. H. Miller. Re. 23,764, Jan. 5.

LIST OF PLANT INVENTIONS

Lilac plant. W. E. Lammerts. 1,238, Jan. 5.
Rose plant. W. E. Lammerts. 1,239, Jan. 5.

LIST OF DESIGN INVENTIONS

Bag or similar article, Knitting. H. Kittner. 171,260, Jan. 5.
Bank, Coin. C. G. Bergman. 171,243, Jan. 5.
Bottle. E. A. Spuehler. 171,269, Jan. 5.
Bracelet, Expansible wrist watch. J. F. Sand. 171,268, Jan. 5.
Car body, Railway. S. W. Kay. 171,258, Jan. 5.
Chair. R. M. Phillips. 171,265, Jan. 5.
Cowl for a motorcycle front wheel or similar article. O. R. Courtney. 171,249, Jan. 5.
Cowl for a motorcycle rear wheel or similar article. O. R. Courtney. 171,250, Jan. 5.
Cribbage board or similar article. A. J. Carlson. 171,246, Jan. 5.
Cup. W. F. Rothe. 171,267, Jan. 5.
Drawing instrument. G. Lotter. 171,262, Jan. 5.
Dycing jig. W. P. Rose and A. R. Gessinger. 171,266, Jan. 5.
Glove. B. Kennedy. 171,259, Jan. 5.
Game device, Skill testing. J. C. Kocl. 171,261, Jan. 5.
Holder, Cigarette lighter. J. Charnota. 171,247, Jan. 5.
Holder, Spectacle. O. L. Newlin. 171,263, Jan. 5.
House, Portable. C. V. Bergstrom. 171,244, Jan. 5.
Microscope, Projection. D. Trossi. 171,271, Jan. 5.
Motorcycle body. O. R. Courtney. 171,251, Jan. 5.
Pitcher or similar article. A. B. Barnhart. 171,241, Jan. 5.
Set of chessmen or similar article. R. P. Cimillo. 171,248, Jan. 5.
Spoon, Infant's. R. M. Sweeney. 171,270, Jan. 5.
Spoon or similar article of flatware. B. Bernstein. 171,245, Jan. 5.
Stocking. O. C. Gehring. 171,253–4, Jan. 5.
Toolbox. G. A. Belf and A. Lustig. 171,242, Jan. 5.
Toy gun, Water shooting. R. E. Hopkins. 171,256, Jan. 5.
Tweezers, Illuminated. U. B. Peterson and W. A. Johnson. 171,264, Jan. 5.
Utensil lid. N. de Lebecque. 171,252, Jan. 5.
Vaporizer, Insecticide. C. F. Holbrook. 171,255, Jan. 5.
Waistcoat. E. Kairalla. 171,257, Jan. 5.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 5TH DAY OF JANUARY, 1954

NOTE.—**Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).**

Absorbent and preparation thereof. J. B. Buffett. 2,665,259, Jan. 5.
Accelerator, Magnetic induction. K. Gund. 2,665,392, Jan. 5.
Accordion knee support. W. Kopa. 2,664,777, Jan. 5.
Accord on shoulder plate. K. Kopa. 2,664,776, Jan. 5.
Accumulator cell. O. Welter. 2,665,325, Jan. 5.
Acetylenic amines, Preparation of. C. H. McKeever and M. F. Fegley. 2,665,311, Jan. 5.
Add-subtract binary counter circuit. C. R. Williams. 2,665,068, Jan. 5.
Adjustable article supporting bracket. J. R. Jason. 2,665,100, Jan. 5.
Adjustable die. L. W. Andrews. 2,664,996, Jan. 5.
Adjustable tolerance gauge. C. Denny. 2,664,639, Jan. 5.
Adjustable tool supporting stand. M. V. Tracy. 2,664,924, Jan. 5.
Adsorptive distillation. W. A. Herbst. 2,665,315, Jan. 5.
Aerating device for pulverulent material. G. A. Schemm. 2,665,035, Jan. 5
Aerial arrangement. W. F. Hickson and W. A. McGough. 2,665,380, Jan. 5.
Air brake. J. V. V. Elsworth. 2,665,173, Jan. 5.
Air conditioning apparatus and liquid metering device. G. C. Hein and J. Hajek. 2,664,604, Jan. 5.
Air conditioning apparatus, Wall mounted console type. W. F. Borgerd. 2,664,720, Jan. 5.
Aircraft control system monitor. A. E. Moog and C. M. Perkins. 2,665,086, Jan. 5.
Aircraft engine and propeller control system. J. Stuart, III. 2,664,959, Jan. 5.
Aircraft tail unit, Jet propelled. E. Benoit. 2,664,700, Jan. 5.
Air vent tube. J. J. Morell. 2,664,809, Jan. 5.
Alarm switch. A. H. Vadnais. 2,665,342, Jan. 5.
Alcoholic malt beverage, Making an. S. Hayakawa. 2,665,213, Jan. 5.
Alloy: *See*—
Hot work steel alloy.
Analysis of nonferrous alloys. H. J. Eding and C. I. Glassbrook. 2,665,412, Jan. 5.
Anchor escapement for timepieces. M. Huguenin. 2,664,695, Jan. 5.
Anode target. M. J. Zunick and H. W. Goodrick. 2,665,390, Jan. 5.
Antenna, Slotted cylindrical. C. E. Smith and G. Sinclair. 2,665,381, Jan. 5.
Antenna, Three slot cylindrical. C. E. Smith and G. Sinclair. 2,665,382, Jan. 5.
Antiperspirant dispenser. A. L. Miller and D. M. Keast. 2,664,581, Jan. 5.
Apparatus and method of coating by vapor deposition. P. J. Clough and P. Godley, 2nd. 2,665,227, Jan. 5.
Apparatus and process for coating by vapor deposition. P. Godley, 2nd 2,665,225, Jan. 5.
Apparatus and process for vapor coating. R. A. Stauffer. 2,665,228, Jan. 5.
Apparatus for applying tubular fabric to articles. D. R. Draper. 2,665,043, Jan. 5.
Apparatus for cleaning gas swept heating surfaces. B. O. Broman. 2,665,118, Jan. 5.
Apparatus for determining the direction of wave energy. O. H. Schuck. 2,665,416, Jan. 5.
Apparatus for composing justified lines. R. Higonnet and L. Moyroud. 2,664,986, Jan. 5.
Apparatus for drying stockings in stacks. H. S. Drum, H. F. Liedtke, and J. Schmitz, Jr. 2,664,647, Jan. 5.
Apparatus for effecting a desired sequence of operations. A. M. Wassef. 2,665,067, Jan. 5.
Apparatus for electropolishing metals. J. F. Jumer. 2,665,247, Jan. 5.
Apparatus for forming edible receptacles. J. Balton. 2,664,834, Jan. 5.
Apparatus for measuring absolute pressure. C. W. Bristol. 2,664,917, Jan. 5.
Apparatus for measuring objects by photography. F. Waller. 2,664,784, Jan. 5.
Apparatus for measuring thickness of sheet material. D. W. Dunipace and N. C. Nitschke. 2,665,333, Jan. 5.
Apparatus for packaging lumber. D. M. Rose. 2,664,813, Jan. 5.
Apparatus for picking up prunes and the like. W. Wiebe. 2,664,691, Jan. 5.
Apparatus for pneumatically elevating contact material. C. H. Thayer. 2,665,172, Jan. 5.
Apparatus for projecting luminous targets. V. N. Garrido. 2,665,133, Jan. 5.

Apparatus for proportioning flows of different materials. R. P. Lowe. 2,664,907, Jan. 5.
Apparatus for speech instruction. W. S. Howell and J. V. Irwin. 2,664,649, Jan. 5.
Apparatus for testing the surface hardness of construction materials. E. O. Schmidt. 2,664,743, Jan. 5.
Apparatus for the heat treatment of fabrics. C. Klug. 2,665,125, Jan. 5.
Apparatus for treating gases with liquids. D. B. Foster and W. S. Norman. 2,665,123, Jan. 5.
Apparatus for twisting and winding yarns. J. J. Gannon, C. P. Powell, and J. J. Fiscella. 2,664,694, Jan. 5.
Apparatus for vapor coating. F. W. Schuler. 2,664,853, Jan. 5.
Arbor, Adjustable splined. A. F. Fallon. 2,665,136, Jan. 5.
Arc melting of titanium to form ingots. S. A. Herres. 2,665,318, Jan. 5.
Arrangement in air blast circuit breaker provided with damping resistance. H. Forwald. 2,665,351, Jan. 5.
Article for flash welding track rollers. E. P. McDonald and J. Conlogue. 2,665,361, Jan. 5.
Article holding device. E. E. Kellems. 2,664,609, Jan. 5.
Articles of high impact strength, Production of. T. C. Baker. 2,665,261, Jan. 5.
Artificial limb. E. Blevens. 2,664,572, Jan. 5.
Aryl esters of chlorobenzoic acid. E. Monroe and C. Hand. 2,665,301, Jan. 5.
Atmospheric conditioning method and apparatus. W. L. Kerlin. 2,665,168, Jan. 5.
Atomizer. J. B. Schmitt and A. J. Attinger. 2,665,170, Jan. 5.
Attachment for feeding wool. J. Roberts. 2,665,014, Jan. 5.
Attachment for trimming the treads of wheels. D. A. Kelly. 2,664,679, Jan. 5.
Automatic control for accounting machines. A. H. Sharpe. 2,665,064, Jan. 5.
Automatic control for compressors, Dual. P. A. Bancel. 2,665,053, Jan. 5.
Automatic hydraulic valve. W. S. White. 2,664,912, Jan. 5.
Automatically measuring time intervals, Method and apparatus for. D. W. Burbeck. 2,665,410, Jan. 5.
Axially tightening band clamp. C. E. Christophersen. 2,665,094, Jan. 5.
Azo compounds. G. W. Mast and L. E. Tenenbaum. 2,665,273, Jan. 5.
Back trim and sealing molding. J. Stanitz. 2,665,182, Jan. 5.
Bag: *See*—
Golf bag.
Bakery products and composition therefor, Making. P. P. Gray. 2,665,215, Jan. 5.
Ball casing and manufacture, Reinforced. E. A. Robinson. 2,665,132, Jan. 5.
Ball cock, Nonsiphoning. W. H. Patten. 2,664,913, Jan. 5.
Balling machine, Textile. G. C. Anderson. 2,664,594, Jan. 5.
Bathing cap. F. W. Andrews. 2,664,569, Jan. 5.
Batteries, Manufacture of storage. T. P. McFarlane. 2,665,324, Jan. 5.
Battery burning rack. H. W. Lormor. 2,664,842, Jan. 5.
Bead forming process. E. H. Lebeis, Jr. 2,665,258, Jan. 5.
Bearing: *See*—
Timepiece bearing.
Bearing. P. T. Brantingham. 2,665,176, Jan. 5.
Beater assembly for cotton harvesters. R. H. Witt. 2,664,686, Jan. 5.
Bed with forward turning back, Sofa. J. T. Newborn. 2,664,574, Jan. 5.
Belt tension take-up, Automatic. L. E. Shaw. 2,664,757, Jan. 5.
Blower, Rotary. H. Walter. 2,665,057, Jan. 5.
Body lowering apparatus. E. Sokolik. 2,665,111, Jan. 5.
Boiler: *See*—
Steam boiler.
Boiler blow-off and sewer protection. E. P. Brock. 2,664,909, Jan. 5.
Book end. J. M. Sooter. 2,665,010, Jan. 5.
Bookmark with marker ribbon. J. A Orman. 2,664,847, Jan. 5.
Boring machine. C. R. Ivey. 2,665,117, Jan. 5.
Bottle filling machine. E. Nowakowski. 2,665,045, Jan. 5.

Bowling ball retarder. O. Schlafender. 2,665,131, Jan. 5.
Bracket: *See*—
Adjustable article supporting bracket.
Bracket structure, Adjustable. A. C. Perbal. 2,665,102, Jan. 5.
Brake: *See*—
Air brake.
Brake cam rod latch adjuster, Auxiliary. B. A. Darr. 2,664,975, Jan. 5.
Brake, clutch, and gas control, Vehicle. J. W. Parent. 2,664,979, Jan. 5.
Brake mechanism. R. K. Super. 2,664,972, Jan. 5.
Brake system, Safety. A. R. Colley. 2,664,973, Jan. 5.
Brake testing apparatus. M. S. Merrill and L. H. Erickson. 2,664,745, Jan. 5.
Brassière. A. Finkelstein. 2,664,564, Jan. 5.
Brassière. E. H. Wegman. 2,664,568, Jan. 5.
Breather tube. H. G. Starck. 2,665,091, Jan. 5.
Brief, Man's pouch-type. P. H. Bailey. 2,664,889, Jan. 5.
Broiler for cook stoves, Adjustable. W. G. Durant. 2,664,878, Jan. 5.
Building corner construction. J. P. Koval. 2,664,595, Jan. 5.
Building surfacing material. C. T. Sorensen. 2,664,835, Jan. 5.
Bulkhead, Permanent hinged. G. C. Sorensen. 2,664,838, Jan. 5.
Burner: *See*—
Hydrocarbon fuel burner.
Burnishing apparatus. F. La Monica. 2,664,675, Jan. 5.
Bust pad. G. P. Kempel. 2,664,571, Jan. 5.
Button remover. J. Pawelczak. 2,664,629, Jan. 5.
Cable reel. J. J. Slomer. 2,665,081, Jan. 5.
Cake preserver device. P. H. Halbriter. 2,664,810, Jan. 5.
Calcium lactate suppository. R. Fleischmann. 2,665,235, Jan. 5.
Calculating machine, Binary-octal-decimal computer. H. T. Avery. 2,665,070, Jan. 5.
Calibrated liquid storage gauge. H. A. Quist. 2,664,748, Jan. 5.
Camera and shutter mechanism therefor, Photographic. A. C. Mayo. 2,664,800, Jan. 5.
Camera body construction. J. Bolsey. 2,664,798, Jan. 5.
Camera gun. C. M. Thrasher. 2,664,797, Jan. 5.
Camera tripod. F. D. Graetz. 2,665,099, Jan. 5.
Camera with film wind and shutter set interlock. L. A. Wilkinson. 2,664,799, Jan. 5.
Camera with flash synchronizing device, Curtain shutter. W. Stein and F. Gath. 2,664,796, Jan. 5.
Can punch, Beer. G. D. Conley. 2,664,623, Jan. 5.
Canopy frame and seat unit for motor vehicles, Removable combination. A. T. Pitman. 2,665,165, Jan. 5.
Cap: *See*—
Bathing cap.
Cap and making the same, Knitted. W. E. Schuessler. 2,664,725, Jan. 5.
Cap for structural columns, Adjustable. G. Starcevich. 2,664,977, Jan. 5.
Capacitor, Electric. B. M. Walker. 2,665,400, Jan. 5.
Carbon black from aerosols, Production of. M. E. Jordan. 2,665,194, Jan. 5.
Carbureted water gas and in carburetors for use therein, Manufacture of. N. H. Williams. 2,665,201, Jan. 5.
Carpet gripper. C. M. Szpilberg. 2,664,589, Jan. 5.
Carrier: *See*—
Partitioned folded-blank bottle carrier.
Self-aligning carrier.
Watermelon carrier.
Casing packer cup. T. B. Losey. 2,664,952, Jan. 5.
Casket. F. E. Davis. 2,664,614, Jan. 5.
Casket interior unit. G. C. Hillenbrand and M. J. Laugle. 2,664,615, Jan. 5.
Casting sodium-lead alloys. G. W. Beste. 2,664,605, Jan. 5.
Catalytic synthesis of hydrocarbons. J. H. Arnold. 2,665,289, Jan. 5.
Centrifugal extractor. H. L. Call. 2,665,008, Jan. 5.
Ceramic material. H. Thurnauer and M. A. Murray. 2,665,219, Jan. 5.
Chair. C. E. E. Lundquist. 2,664,944, Jan. 5.
Chair and tablet arm assembly. J. H. Clarin. 2,664,943, Jan. 5.
Chair with leg supporting platform, Adjustable. D. D. Spear. 2,664,942, Jan. 5.
Channel aircraft, Jet-propelled. W. R. Custer. 2,665,083, Jan. 5.
Chart mechanism, Pencil. L. A. Paine. 2,665,185, Jan. 5.
Chemical compounds and preparing the same. M. Seidman and K. P. Link. 2,665,281, Jan. 5.
Chip breaker, Sectional. J. S. Ballantine. 2,664,931, Jan. 5.
Chlorine from HCl. W. J. Congdon and S. W. Grossmann. 2,665,195, Jan. 5.
Chronocounter for measuring output of fluids. G. J. L. V. Berghe and P. J. F. Schaefer. 2,665,186, Jan. 5.
Circuit: *See*—
Add-subtract binary counter circuit.
Deflecting and high voltage supply circuit.
Measuring circuit.
Speed circuit.
Circuit breaker. W. J. Weinfurt. 2,665,396, Jan. 5.
Circuit breaker, Electric. R. C. Ingwersen. 2,665,347, Jan. 5.
Circuit closer. C. R. Hammerstrand. 2,665,340, Jan. 5.
Circuit controller. J. J. Alles. 2,665,417, Jan. 5.
Circuit selector, Time controlled. E. Geoffrion. 2,664,948, Jan. 5.
Circuits, Electric calculating. A. J. Hornfeck. 2,665,066, Jan. 5.
Circuits, High and very high frequency tunable. L. Leng. 2,665,339, Jan. 5.
Circuits, Phase-shift. W. H. Elliot. 2,665,407, Jan. 5.
Clamp: *See*—
Axially tightening band clamp.
Clamp means for industrial trucks. E. J. Dunham. 2,665,022, Jan. 5.
Cleaner: *See*—
Suction cleaner.
Cleaning gas-swept heating surfaces, Method and apparatus for. B. O. Broman. 2,665,119, Jan. 5.
Clip: *See*—
Hair curl holding clip.
Clipper, Nail. W. E. Bassett. 2,664,624, Jan. 5.
Closure and terminal seal for electrolytic devices. J. B. Brennan. 2,665,329, Jan. 5.
Closure assembly for tanks and other containers. D. M. Hintz. 2,665,028, Jan. 5.
Clothes-washing machine. W. C. Bell and V. A. G. Curry. 2,664,730, Jan. 5.
Clutch: *See*—
Electromagnetically controlled friction clutch.
Clutch and gear change operating system for automobiles. J. H. Weaving and E. R. Payne. 2,664,980, Jan. 5.
Clutch arrangement for side delivery rakes. W. A. Harper, E. S. Minton, and H. Orelup. 2,664,759, Jan. 5.
Coating apparatus, Vapor. E. E. Chadsey, Jr. 2,664,852, Jan. 5.
Coating by vapor deposition. F. W. Schuler, W. W. Mansir, and W. O. Di Pietro. 2,665,229, Jan. 5.
Coating compositions for recording media. C. J. Rolle and W. Van Kirk. 2,665,262, Jan. 5.
Coating process with alkali metal phosphate and added fluoride salt. P. L. Amundsen and W. A. Osip. 2,665,231, Jan. 5.
Coffee maker. I. Jepson. 2,664,811, Jan. 5.
Coke oven heating walls. C. Otto. 2,665,242, Jan. 5.
Cold header. R. R. Akey. 2,664,579, Jan. 5.
Combination lock. C. Pagannini. 2,664,738, Jan. 5.
Combination pressure and vacuum tank. C. S. Thompson and G. E. Clark. 2,664,911, Jan. 5.
Combustion equipment of rocket motors. S. Allen and E. G. D. Andrews. 2,664,701, Jan. 5.
Compounding butyl rubber. M. C. Brooks and E. C. Ladd. 2,665,264, Jan. 5.
Computer for integrating tristimulus values. H. R. Davidson. 2,665,065, Jan. 5.
Concentration of aqueous formaldehyde solutions. L. G. Willke, I. L. Malm, and H. L. Malakoff. 2,665,241, Jan. 5.
Connecting rod alignment gauge. H. R. Billeter. 2,664,643, Jan. 5.
Connector: *See*—
Tire chain connector.
Connector for stranded cable. A. A. Berndt. 2,665,331, Jan. 5.
Construction for controlling clearance and positions of parts by thermal actuators. A. Kantrowitz. 2,665,058, Jan. 5.
Contacting gaseous material with finely divided solids. B. V. Molstedt. 2,664,967, Jan. 5.
Container: *See*—
Heavy-duty fiber container.
Salt container.
Shipping container.
Container. W. E. Horrocks. 2,665,029, Jan. 5.
Container. R. L. Talbot. 2,664,854, Jan. 5.
Container. J. Zöblin. 2,665,037, Jan. 5.
Container closure. M. Migneault. 2,665,023, Jan. 5.
Container for heavy bulk merchandise, Shipping. J. R. Belsinger. 2,665,047, Jan. 5.
Container for neutron irradiated material. J. F. Gifford and N. B. Garden. 2,664,998, Jan. 5
Continuous casting. J. L. Hunter. 2,664,607, Jan. 5.
Control for operating elevator systems. H. C. Crane. 2,664,971, Jan. 5.
Control for photographic copying apparatus. F. L. Wenlinger. 2,664,782, Jan. 5.
Control mechanism for article transfer devices. J. E. Socke. 2,665,013, Jan. 5.
Control of undesirable vegetation, Method and composition for the. A. W. Swezey. 2,665,204, Jan. 5.
Control system for aircraft propulsion power plants, including a reciprocating internal-combustion engine and an exhaust driven turbine. A. L. Catford and R. H. D. Chamberlin. 2,664,957, Jan. 5.
Control system for electric motors. E. Pell. 2,665,401, Jan. 5.
Control system for locking means. C. F. Teichmann. 2,665,153, Jan. 5.
Controlling mold and decay on fresh fruits and vegetables. L. J. Meull. 2,665,217, Jan. 5.
Controlling the candle power of luminous tubes, Means for. A. Arvidsson, H. Elmlund, and G. Sonesson. 2,665,394, Jan. 5.
Conversion arrangement for suction cleaners. W. H. Kitto. 2,664,587, Jan. 5.

Converting from an unbalanced to a balanced circuit. A. Hyman. 2,665,413, Jan. 5.
Conveyer. H. O. C. Ingraham and J. D. Sundy. 2,664,592, Jan. 5.
Conveyer, Inspection. L. W. Bahney. 2,664,992, Jan. 5.
Conveyer, Natural frequency vibrating. E. J. Renner. 2,664,995, Jan. 5.
Cooking device, Portable. J. Barker. 2,664,876, Jan. 5.
Cooled flame tube. P. Lloyd, W. F. Shilling, J. Brown, and R. A. Boulter. 2,664,702, Jan. 5.
Cooling jacket for internal-combustion engines. F. K. H. Nallinger. 2,664,863, Jan. 5.
Copolymers. D. J. Carlick. 2,665,283–4, Jan. 5.
Copolymers of 1-acyloxy-3-buten-2-one. J. M. Wilkinson, Jr., and J. P. Barker. 2,665,267, Jan. 5.
Copolymers of styrene and divinylbenzene, Preparing. R. N. Haward and J. Elly. 2,665,270, Jan. 5.
Corn puffs. E. Scott. 2,665,214, Jan. 5.
Corn silking and cleaning machine. R. R. Feeser. 2,664,580, Jan. 5.
Cornice, Adjustable. A. Kravitz. 2,664,946, Jan. 5.
Cotton picker doffer means. L. E. Nickla. 2,664,688, Jan. 5.
Cotton picker doffer mechanism adjusting means. D. A. Walker and G. H. Gross. 2,664,689, Jan. 5.
Cotton stripper with moving comb. W. E. Brown. 2,664,687, Jan. 5.
Countercurrent extraction centrifuge. P. Steinacker and A. Böyng. 2,665,061, Jan. 5.
Counting mechanism for line sectionalizers. A. W. Edwards and E. F. Beach. 2,665,346, Jan. 5.
Coupling and fluid circulating controls therefor, Rotary, toroidal chamber type hydraulic. J. E. Becker. 2,664,704, Jan. 5.
Coupling and fluid circulating controls therefor, Rotary, toroidal chamber type hydraulic. J. E. Becker. 2,664,706, Jan. 5.
Coupling device. R. M. Orzábal. 2,664,982, Jan. 5.
Cover construction for hopper cars. J. S. Swann. 2,664,832, Jan. 5.
Crane, Wire lifting. R. McLain and T. A. Fornkahl. 2,665,012, Jan. 5.
Crankshaft pin hardening machine. E. G. Roehm. 2,665,126, Jan. 5.
Crimping tool. R. G. Arey. 2,664,772, Jan. 5.
Culinary device. G. Lawson. 2,664,630, Jan. 5.
Cultivator, Automatic row. I. Myer. 2,664,802, Jan. 5.
Cuprous oxide, Production of. P. J. Rowe. 2,665,192, Jan. 5.
Current limiter, High power factor. T. F. Carmichael. 2,665,406, Jan. 5.
Cushion for artificial dentures. J. Hollander and B. S. Sabreen. 2,664,631, Jan. 5.
Cutter: *See*—
Rectangular hedge cutter.
Cutting pile wire. M. W. Ottomano. 2,664,919, Jan. 5.
Cyclic organosilicon compounds, Production of. D. B. Hatcher. 2,665,287, Jan. 5.
Dam. U. Finsterwalder and P. Ebert. 2,664,714, Jan. 5.
Damper, Vibration. G. F. Sarnzin. 2,664,763, Jan. 5.
Deflecting and high voltage supply circuit. C. V. Boccierelli. 2,665,393, Jan. 5.
Dental cements. J. A. Saffir. 2,665,218, Jan. 5.
Dental machine, Pneumatic. P. I. Norlén. 2,664,632, Jan. 5.
Depositing an aluminum film on a substrate by thermal vaporization. P. J. Clough and E. E. Chadsey, Jr. 2,665,223, Jan. 5.
Depository, Sanitary nest. A. M. Drefke. 2,664,855, Jan. 5.
Determining moisture content or other variables in organic materials, Method and apparatus for. C. E. Rogers. 2,665,409, Jan. 5.
Developing apparatus. W. T. E. Eisbein. 2,664,801, Jan. 5.
Device for adjustably mounting packs of indicator cards or plates. J. H. Holland. 2,664,657, Jan. 5.
Device for applying adhesive substances to tapelike articles. E. A. Hillard. 2,664,851, Jan. 5.
Device for attaching perforated film strips to spool cores. M. Lesjak. 2,665,080, Jan. 5.
Device for dosing powdered or granular substances having dispensing conduit with a vibration-producing member carried thereby. J. V. Riva. 2,665,036, Jan. 5.
Device for driving tapes. R. Vermeulen. 2,665,130, Jan. 5.
Device for making permanent records. M. M. and J. C. Kinley. 2,665,187, Jan. 5.
Device for the indication of the fertility period of women. P. Adler. 2,665,062, Jan. 5.
Dial. E. K. Nauth. 2,664,848, Jan. 5.
Diaphragm motor. J. W. Devorss, Jr. 2,664,673, Jan. 5.
Diaphragm sealed valve. J. E. Svabek, Jr. 2,665,105, Jan. 5.
Dibenzothiophenes as fungicides. L. D. Goodhue and C. E. Tissol. 2,665,234, Jan. 5.
Die: *See*—
Adjustable die.
Die cast loose-leaf ring metal frame. P. O. Derringer. 2,664,897, Jan. 5.
Diesters of dithiophosphoric acids and terpenes. F. B. Augustine. 2,665,295, Jan. 5.
Digit-absorbing repeater. C. E. Lomax. 2,665,338, Jan. 5.
Dilator for clogged teats. V. Gariepy. 2,664,894, Jan. 5.
Direct air friction cathead. A. A. Ashton. 2,665,112, Jan. 5.
Dishwasher. H. C. Sway. 2,664,903, Jan. 5.
Dishwashing machine. H. K. and A. M. Stokes. 2,664,904, Jan. 5.
Dishwashing machine, Center spray portable. G. H. Campion. 2,664,902, Jan. 5.
Dispenser: *See*—
Antiperspirant dispenser. Liquid dispenser.
Dispenser for liquid detergents. F. Fahnoe. 2,664,900, Jan. 5.
Dispenser of rodenticides. T. W. Mullen. 2,664,663, Jan. 5.
Dispensing mechanism, Change. J. F. Elerman. 2,664,984, Jan. 5.
Display card and articles thereon, Combined. H. A. Feigelman. 2,665,003, Jan. 5.
Disposable douche. G. P. Kempel. 2,664,893, Jan. 5.
Doctor blade, Multilength continuous. E. P. Cook. 2,664,792, Jan. 5.
Door construction, Counterbalanced. J. F. McKee and M. E. Hartzler. 2,664,597, Jan. 5.
Door control mechanism. E. L. Allen. 2,665,156, Jan. 5.
Door control mechanism. E. L. Allen. 2,665,159, Jan. 5.
Door control mechanism. A. R. de Vito. 2,665,157, Jan. 5.
Door control mechanism. O. V. Puzik. 2,665,160, Jan. 5.
Door control mechanism. L. J. Wagner. 2,665,158, Jan. 5.
Door hook safety latch. E. W. Piercey. 2,665,152, Jan. 5.
Door lock. J. F. G. Chobert. 2,664,736, Jan. 5.
Door operating mechanism, Thermoelectric. V. Durbin and C. T. Button. 2,665,129, Jan. 5.
Double bobby pin. I. Attias. 2,664,899, Jan. 5.
Double impeller impact breaker. N. H. Kessler and H. I. Hansen. 2,665,074, Jan. 5.
Double interpolation method and apparatus for measuring time intervals. W. E. Frady, Jr. 2,665,411, Jan. 5.
Draught excluding strip. T. J. R. Bright. 2,664,602, Jan. 5.
Dressing diamond wheels. F. W. Clark and R. T. Stolze. 2,664,681, Jan. 5.
Drill bit remover. H. Bartholomae. 2,664,621, Jan. 5.
Drill press. W. L. Fismer. 2,664,756, Jan. 5.
Drilling lift and packer therefor, Hydraulic. B. F. Schmidt. 2,665,149, Jan. 5.
Drying apparatus. H. L. Bourner. 2,664,646, Jan. 5.
Dust arrester. R. H. Moore. 2,664,966, Jan. 5.
Effecting nonfusion welds with a steel weldrod. K. Spitz. 2,664,622, Jan. 5.
Electric capacitor, Multiple. G. T. Kodama. 2,665,376, Jan. 5.
Electric motor. J. M. Pestarini. 2,665,403, Jan. 5.
Electric steaming iron. J. I. Dickman. 2,664,654, Jan. 5.
Electric stimulator for artificial respiration. N. B. Wales, Jr. 2,664,880, Jan. 5.
Electrical contact. J. D. Kleis. 2,664,618, Jan. 5.
Electrical plug and receptacle, Shockproof locking. W. H. Wilson. 2,665,341, Jan. 5.
Electrically heated tool. L. H. Thomas. 2,665,364–5, Jan. 5.
Electrically operated fluid pump. P. Duffing. 2,664,826, Jan 5.
Electrode motion. G. R. Wepfer. 2,665,363, Jan. 5.
Electrolyte level indication in electrical accumulators. J. R. Martin. 2,665,327, Jan. 5.
Electromagnetically controlled friction clutch. F. d'Ozouville. 2,664,981, Jan. 5.
Emulsion polymerization at low temperatures in the presence of certain trialkylhydroperoxy methanes. W. B. Reynolds, J. E. Wicklatz, and T. J. Kennedy. 2,665,272, Jan. 5.
Emulsion polymerization of vinylidene compounds in the presence of trisubstituted hydroperoxymethanes having 10 to 30 carbon atoms. W. B. Reynolds, J. E. Wicklatz, and T. J. Kennedy. 2,665,269, Jan. 5.
Engine: *See*—
Internal-combustion engine.
Multicylinder double-acting hot-gas reciprocating engine.
Engine. S. Ellot. 2,664,865, Jan. 5.
Engine control system. W. A. Wiseman. 2,664,870, Jan. 5.
Engine governor. H. L. Hartzell and A. G. Lautzenhiser. 2,664,867, Jan. 5.
Engine governor. A. G. Lautzenhiser. 2,664,868, Jan. 5.
Engine governor. A. G. Lautzenhiser. 2,664,906, Jan. 5.
Engine head. R. P. Ernest. 2,664,864, Jan. 5.
Engine throttle control, Jet. W. B. Morris. 2,664,762, Jan. 5.
Engine with means for augmenting the pressure medium and supplying combustion air, Hot-gas reciprocating. A. N. J. van de Poll, G. M. A. C. Geeven, G. Eernst, and J. G. Slui. 2,664,698, Jan. 5.
Equation solving mechanism. L. W. Imm. 2,665,069, Jan. 5.
Esters of gamma-ketopimelic acid. H. R. Gamrath. 2,665,303, Jan. 5.
Ethyl esters of sulfonic acids, Preparation of the. C. E. Johnson and A. P. Lien. 2,665,293, Jan. 5.
Excrement disposal device. L. I. Taylor. 2,664,573, Jan. 5.
Expansion tool. A. G. Beasley. 2,664,620, Jan. 5.
Explosion-proof light having a pressure relieving porous element. E. H. Greppin. 2,665,369, Jan. 5.

Extractor: *See*—
Centrifugal extractor.
Fabric: *See*—
Rubberized broom fiber fabric.
Fan, Adjustable blade. T. O. Adams, Jr. 2,665,055, Jan. 5.
Fan, Adjustable blade. C. F. Goede. 2,664,961, Jan. 5.
Fan, Replaceable blade. H. F. Fischer. 2,665,054, Jan. 5.
Farm spreader, All-purpose. O. J. Harper. 2,665,135, Jan. 5.
Fastener: *See*—
Fishline snap fastener. Panel fastener.
Ironing board cover fastener.
Fastening device. K. J. Shomber. 2,664,611, Jan. 5.
Fastening device. W. J. Smart. 2,665,150, Jan. 5.
Feed supplement, Noncaking. J. W. Brodhacker. 2,665,209, Jan. 5.
Feeder: *See*—
Livestock feeder.
Feeding device for caps and the like. W. J. Mundy. 2,665,005, Jan. 5.
Ferrous chloride from iron oxide-containing material, Preparation of. M. E. Graham, A. S. Henderson, and I. P. Whitehouse. 2,665,191, Jan. 5.
Filter sheet for gases, Fibrous. A. J. A. Asplund. 2,664,964, Jan. 5.
Filter stem for use with the filter of an aquarium. H. W. Willinger and H. N. Nestler. 2,665,250, Jan. 5.
Filters, Manufacture of oil. J. A. Baldwin. 2,665,075, Jan. 5.
Finger ring protector. A. H. Starolis. 2,665,042, Jan. 5.
Finishing of workpieces. P. K. A. Cüppers. 2,664,676, Jan. 5.
Firearm trigger lock. T. Bjorklund. 2,664,658, Jan. 5.
Fishhook, Weedless. K. R. Larson. 2,664,662, Jan. 5.
Fishing apparatus. F. Kohn. 2,664,661, Jan. 5.
Fishline snap fastener. A. A. Winkelman. 2,664,612, Jan. 5.
Flame analyzer and flame source therefor. J. U. White. 2,664,779, Jan. 5.
Flap actuator and control system. T. A. Feeney, J. E. Glenn, W. B. Degenfelder, R. E. Crandall, and H. S. Ripley. 2,665,084, Jan. 5.
Float cutting method for looms. F. W. Riddle. 2,664,920, Jan. 5.
Flocculation mechanism. R. B. Carter, Jr. 2,665,248 Jan. 5.
Flow distributor valve. W. Boyd, R. G. Meschino, and K. W. Jay. 2,664,910, Jan. 5.
Fluid control means for rotary hydraulic couplings, Filling and emptying. J. E. Becker. 2,664,705, Jan. 5.
Fluid pressure responsive equipment. B. Jones. 2,664,749, Jan. 5.
Fluid regulator valve. F. Niesemann. 2,664,674, Jan. 5.
Fluid tight packing for gates. G. C. M. Parmentier. 2,664,712, Jan. 5.
Foam pressure balanced walking beam type oil well pumping jack. L. A. Blackburn. 2,664,764, Jan. 5.
Folder, Automatic shirt. E. N. Neckel. 2,665,039, Jan. 5.
Foodstuffs, Manufacture of. L. Spieser. 2,665,208, Jan. 5.
Foot binding for water skis and the like. W. O. Clinedinst. 2,664,578, Jan. 5.
Form for washing woolen socks, Combination. D. J. Maffucci. 2,665,041, Jan. 5.
Forming cutter for rounding handle ends. C. H. Leonard and J. M. Cooke. 2,664,930, Jan. 5.
Frame: *See*—
Die cast loose-leaf ring metal frame.
Frequency divider. G. H. Hadden. 2,665,379, Jan. 5.
Fuel control system. G. R. Ericson and I. E. Coffey. 2,664,872, Jan. 5.
Furnace arch, Suspended. R. A. Banck. 2,664,837, Jan. 5.
Furnace having a stirring winding, Metallurgical. L. Dreyfus. 2,665,319, Jan. 5.
Fuse clip construction. J. J. Kojis. 2,665,415, Jan. 5.
Fuse, Current-limiting. F. J. Kozacka. 2,665,348, Jan. 5.
Fuse link. L. Pummer. 2,665,350, Jan. 5.
Fuse link. V. A. Sander. 2,665,349, Jan. 5.
Fuze. F. B. Hale. 2,664,822, Jan. 5.
Game for two vehicles, Single track. E. Fields. 2,664,831, Jan. 5.
Gamma-hydroxy quaternary ammonium compounds. E. M. Schultz. 2,665,278, Jan. 5.
Garment, Man's. E. R. Sutter. 2,664,888, Jan. 5.
Garment, Waterproof. B. B. Shulman. 2,664,895, Jan. 5.
Gasification of solid carbonaceous materials. M. Kwauk. 2,665,200, Jan. 5.
Gauge: *See*—
Adjustable tolerance gauge. Connecting rod alignment gauge.
Calibrated liquid storage gauge. Pressure gauge.
Gauge. C. G. Storey. 2,664,638, Jan. 5.
Gauge for internal upsets. A. M. Cataldo. 2,664,637, Jan. 5.
Gauge for measuring or comparing diameters of cylindrical bodies. J. Rae. 2,664,642, Jan. 5.
Gear assembly, Antifriction. J. H. Booth. 2,664,760, Jan. 5.
Gearshift conversion apparatus. M. E. Martin. 2,664,761, Jan. 5.
Generator: *See*—
Thermoelectric generator.
Glare shield attachment for automobile headlights. L. E. Rynearson. 2,665,371, Jan. 5.
Glycidyl ethers of condensation products of certain aromatic hydroxy compounds with phenols having unsaturated hydrocarbon side chains. D. Wasserman. 2,665,266, Jan. 5.
Golf bag. O. W. Gielow. 2,664,933, Jan. 5.
Grader and paver, Sidewalk. J. R. Evans. 2,664,794, Jan. 5.
Grinding or honing machine. J. W. Howlett. 2,664,711, Jan. 5.
Ground release for cargo parachutes. R. Gross. 2,665,163, Jan. 5.
Guard rail attachment for beds. A. W. Lehman. 2,664,576, Jan. 5.
Gun skid. W. Parker. 2,664,659, Jan. 5.
Hair curl holding clip. R. A. Smith. 2,664,883, Jan. 5.
Halogen cleavage of ozonides. J. O. Knobloch and J. W. Sparks. 2,665,280, Jan. 5.
Halving and pitting machine, Fruit. N. E. Gaddini. 2,664,932, Jan. 5.
Hammer, Pivoted metal-working. F. O. Cain. 2,664,773, Jan. 5.
Harmonica apparatus. E. A. Zielinski. 2,664,775, Jan. 5.
Harp, Lamp. K. Berger. 2,665,374, Jan. 5.
Haying machine, Combination. S. D. Russell. 2,664,684, Jan. 5.
Heat exchanger, Regenerative. U. O. Blomquist. 2,665,120, Jan. 5.
Heating and cooling system, Reverse cycle. D. T. Intagliata. 2,664,721, Jan. 5.
Heating system. J. A. Dondero. 2,665,073, Jan. 5.
Heating unit, Induction. N. J. Cutliff and E. V. Brogan. 2,665,368, Jan. 5.
Heating unit, Propeller ice-prevention. G. H. Holdaway and E. C. Wallace. 2,665,090, Jan. 5.
Heavy-duty fiber container. S. P. Belsinger. 2,665,048, Jan. 5.
Hedge trimmer. I. Jepson. 2,664,626, Jan. 5.
Heel finishing machine. R. Schiavulli and A. Capomacchio. 2,664,680, Jan. 5.
Heel forming machine. E. D. Sydow. 2,664,563, Jan. 5.
Helmet, Pneumatic boxing. J. W. Nichols. 2,664,567, Jan. 5.
Herbicidal method. W. S. Emerson and R. A. Heimsch. 2,665,203, Jan. 5.
Heterocyclic antituberculous compounds. J. A. Aeschlimann and A. Stempel. 2,665,279, Jan. 5.
Hinge, Electrical. E. F. Hubacker and F. L. Tarleton. 2,665,414, Jan. 5.
Holder: *See*—
Line holder. Toy balloon holder.
Pig castrating holder.
Holder and buffer, Door. J. G. Allen. 2,664,590, Jan. 5.
Holder for corrosion testing coupons. H. L. Bilhartz and H. E. Greenwell. 2,664,744, Jan. 5.
Holder for photographic sheets. H. H. Reineman. 2,664,896, Jan. 5.
Holder with resilient legs, Nut. H. R. Elliott. 2,664,771, Jan. 5.
Holding device for flange bolts. W. R. Tomchek. 2,664,770, Jan. 5.
Hot work steel alloy. L. V. Klaybor. 2,665,205, Jan. 5.
Hydraulic control system. E. F. Norelius and D. Rinkema. 2,664,708, Jan. 5.
Hydraulic elevator descent control valve. A. M. Conley. 2,664,916, Jan. 5.
Hydraulic fracturing to increase well productivity. E. A. Johnson. 2,664,954, Jan. 5.
Hydraulic power means and seal for pressure vessel agitators. E. E. Rowland. 2,665,122, Jan. 5.
Hydraulic ram mechanism. F. B. Levetus. 2,664,860, Jan. 5.
Hydraulically controlled fluid driven reciprocating actuator. W. F. Green. 2,664,859, Jan. 5.
Hydrocarbon fuel burner. C. Bramming. 2,664,729, Jan. 5.
Ice-cream compositions, Stabilized. J. Kamlet. 2,665,216, Jan. 5.
Ignition system analyzer. E. Hedinger. 2,665,408, Jan. 5.
Impregnating cellulosic sheet. D. H. Grangaard. 2,665,221, Jan. 5.
Improved polymerizable unsaturated polyester compositions and polymerized material therefrom, Preparation of. A. M. Howald. 2,665,263, Jan. 5.
Indexing device. A. Parnet. 2,664,641, Jan. 5.
Indexing mechanism, Manual. E. E. Powell. 2,664,791, Jan. 5.
Indicating instrument with dial plate, adapted to be illuminated. F. K. H. Nallinger. 2,664,849, Jan. 5.
Indicator: *See*—
Liquid line indicator.
Liquid-solids interface indicator.
Indicator for automobiles, Toe-in change. D. J. Tyerman. 2,664,644, Jan. 5.
Inductor for the heat treatment of workpieces, especially crankshafts. G. W. Seulen. 2,665,367, Jan. 5.

Infusible resins of superior toughness and flexibility from a ketodiguanamine and formaldehyde, Preparation of. J. K. Simons. 2,665,260, Jan. 5.
Inner tube for pneumatic tires. J. W. Waber. 2,664,936, Jan. 5.
Insecticides and insecticidal compositions. O. F. Hedenburg. 2,665,233, Jan. 5.
Instrument for sensing the densities of fluids. D. H. MacDonald. 2,664,742, Jan. 5.
Instrument for testing pH values of body canal liquids and color comparator for use therewith. L. M. Hardy. 2,664,879, Jan. 5.
Internal-combustion engine. F. L. Fulke. 2,664,866, Jan. 5.
Ion accelerating and focusing system. H. P. Yockey. 2,665,384, Jan. 5.
Iron: *See*—
Electric steaming iron. Steam and dry iron.
Ironing board cover fastener. V. L. Pearson. 2,664,656, Jan. 5.
Irrigation dam, Automatic. P. C. Baker. 2,664,713, Jan. 5.
Jack: *See*—
Foam pressure balanced walking beam type oil well pumping jack.
Joint: *See*—
Panel wall joint.
Quick detachable swivel joint.
Keyboard, Electrical. J. J. Saykay. 2,665,336, Jan. 5.
Knitting machine, Circular multifeed hosiery. J. J. McDonough. 2,664,723, Jan. 5.
Knitting machine, Warp. F. Lambach and W. Siegel. 2,664,724, Jan. 5.
Latch: *See*—
Door hook safety latch.
Latch and lock, Container. C. A. Vahlstrom and P. J. Walther. 2,664,735, Jan. 5.
Latch bolt unit. G. Hagstrom. 2,665,154, Jan. 5.
Lawn edger, Motor propelled. W. R. Hedrick. 2,664,807, Jan. 5.
Leak detector composition for gaseous fluid conduits and the like. T. W. Potter. 2,665,257, Jan. 5.
Legs for tables, Folding paired. J. Pucci. 2,665,181, Jan. 5.
Letter feed, Type-action-controlled varied. C. Schroder. 2,664,987, Jan. 5.
Light for vehicles, Warning. R. J. Miller. 2,665,418, Jan. 5.
Lighter, Pyrophoric. H. Schweitzer. 2,664,728, Jan. 5.
Line blind construction. L. S. Hamer. 2,664,918, Jan. 5.
Line holder. K. E. and G. W. Schneider. 2,664,636, Jan. 5.
Line tension signal. A. F. Rhodes and W. S. Bachman. 2,664,845, Jan. 5.
Liquid dispenser. L. M. Rogers and C. A. Siver. 2,665,046, Jan. 5.
Liquid level. A. A. Qualman. 2,664,645, Jan. 5.
Liquid line indicator. R. A. Gray, Jr. 2,664,846, Jan. 5.
Liquid separator apparatus, Gas and multiple. I. W. Lovelady and S. P. Kroeker. 2,664,963, Jan. 5.
Liquid-solids interface indicator. E. J. Ellis. 2,664,747, Jan. 5.
Livestock feeder. A. M. Best. 2,665,015, Jan. 5.
Load carrier for use in overhead trolley conveyer systems. E. Mullen and R. Harris. 2,664,993, Jan. 5.
Loader and Handling means for trucks, Hydraulic. L. W. Etchart. 2,665,016, Jan. 5.
Loader attachment for tractors. G. G. McNamara, Jr. 2,665,017, Jan. 5.
Lock: *See*—
Combination lock. Milling machine ram saddle-wedge lock.
Door lock.
Firearm trigger lock.
Lock for industrial trucks, Attachment. D. Wight, Jr. 2,665,021, Jan. 5.
Locking device. N. O. Holmsten. 2,664,737, Jan. 5.
Locking device for electrical connections. H. G. McEneaney. 2,664,734, Jan. 5.
Log-barker having log-holddown rollers and confronting rotary spray heads, Hydraulic. H. A. Simons. 2,664,929, Jan. 5.
Loom harness-strap. G. Walters and E. F. Gatzke. 2,664,922, Jan. 5.
Low-temperature separation of air, Process of and apparatus for. P. K. Rice. 2,664,718, Jan. 5.
Lubricants. C. F. Prutton. 2,665,252, Jan. 5.
Lubricator: *See*—
Machine lubricator.
Luminescent screens, Manufacturing. J. de Gier. 2,665,220, Jan. 5.
Machine for automatically producing apparel belts and like strap bodies. J. A. Tuck. 2,664,732, Jan. 5.
Machine for forming and packing blanks of dough. L. Armstrong, L. B. Willoughby, R. C. P. Morton, and H. How. 2,664,833, Jan. 5.
Machine for packaging fluent material. C. Z. Monroe and D. German. 2,665,044, Jan. 5.
Machine for printing and perforating sales tickets using address plates. L. R. Schuessler. 2,664,815, Jan. 5.
Machine for selectively printing and feeding tape. E. A. Jacobson. 2,664,817, Jan. 5.
Machine for splitting or resawing insulating boards. E. R. Ferrari. 2,664,923, Jan. 5.
Machine lubricator. F. I. Bjerre. 2,664,969, Jan. 5.
Magazine and blade combination. L. H. Young. 2,664,999, Jan. 5.
Magnetic measuring method and apparatus. E. A. Weiss and J. R. Wright. 2,665,332, Jan. 5.
Mannequin for wearing apparel. R. T. Reid. 2,665,040, Jan. 5.
Marking device, Case. W. Gibson. 2,664,816, Jan. 5.
Marking machine. R. A. Schacht. 2,664,985, Jan. 5.
Mask, Gas. D. A. Green. 2,664,887, Jan. 5.
Massage apparatus, Spinal. T. M. Parker. 2,664,882, Jan. 5.
Massaging device, Scalp. A. A. La Verne. 2,664,884, Jan. 5.
Matches and cover therefor, Book. A. J. Antoski. 2,665,000, Jan. 5.
Material feeding machine. E. T. Walter. 2,665,006, Jan. 5.
Material weighing and delivering apparatus. R. E. Evans, P. F. Darby, and T. G. Owen. 2,665,031, Jan. 5.
Means to punch a special code by locking data levers by transaction lever. W. P. Loudon. 2,664,951, Jan. 5.
Measuring circuit. A. E. Feinberg. 2,665,395, Jan. 5.
Mechanical drive. H. J. Smits. 2,664,758, Jan. 5.
Mechanical means for propelling field sprinkling apparatus. D. W. Tipton. 2,665,169, Jan. 5.
Metal products and producing same, Coated. R. Graham. 2,664,873–4, Jan. 5.
Metal vaporizing crucible. E. E. Chadsey, Jr., P. J. Clough, and P. Godley, II. 2,665,320, Jan. 5.
Metal xanthates of the haloaryloxyalkanols. B. C. Fischback. 2,665,291, Jan. 5.
Metal xanthates of the haloaryl polyalkylene glycol monoethers. B. C. Fischback. 2,665,292, Jan. 5.
Meter: *See*—
Propeller meter.
Method and solution for treating zinc surfaces to inhibit formation of white rust. R. A. Neish. 2,665,232, Jan. 5.
Micrometer for measuring thin insulation. M. R. Enverard. 2,664,640, Jan. 5.
Milling machine ram saddle-wedge lock. C. Tree. 2,664,789, Jan. 5.
Mineral oil containing 1,2-dialkoxy benzene as an oxidation inhibitor. W. C. Hollibaugh. 2,665,253, Jan. 5
Mineral oil, Oxidation inhibited. W. J. Coppock. 2,665,254, Jan. 5.
Mirror, Microwave dispersive. P. G. Marié. 2,665,383, Jan. 5.
Mirror, Rearview. F. L. O. Roehrig. 2,664,785, Jan. 5.
Mold: *See*—
Ring mold.
Mold for frying tacos wrappers. G. Molina. 2,664,812, Jan. 5.
Molding apparatus. M. Larson. 2,664,593, Jan. 5.
Molding core. W. A. and D. W. Evans and L. J. Sims. 2,664,613, Jan. 5.
Monobasic morphine phosphate hemihydrate and preparing same. A. H. Homeyer, G. B. De La Mater, and A. A. Cochran. 2,665,277, Jan. 5.
Mopping apparatus. E. A. Twerdahl. 2,664,584, Jan. 5.
Mortar form. R. Nicholson. 2,664,741, Jan. 5.
Motion limiting device. A. R. Clyne. 2,664,768, Jan. 5.
Motor: *See*—
Diaphragm motor. Synchronous electric clock motor.
Electric motor.
Motor control system, Unbalanced primary. W. H. Elliot. 2,665,404, Jan. 5.
Mounting: *See*—
Resistor mounting.
Mounting for centrifugal machines. E. E. Hallander. 2,665,007, Jan. 5.
Mounting metal wall panels, Means for. R. E. Fox. 2,664,978, Jan. 5.
Moving target generating device. F. W. Brown. 2,664,754, Jan. 5.
Mower, Adjustable frame power. W. H. Phelps. 2,664,685, Jan. 5.
Mower, Double sickle type. E. F. Huddle and E. C. Carlson. 2,664,690, Jan. 5.
Mudguard indicator for vehicles, particularly automobiles. E. Hostettler. 2,665,095, Jan. 5.
Multicylinder double-acting hot-gas reciprocating engine. J. W. L. Köhler. 2,664,699, Jan. 5.
Multiple-wiper mechanism for labeling machines. S. T. Carter. 2,665,025, Jan. 5.
Multistage internal mixer-settler extraction apparatus. N. Poffenberger. 2,665,196, Jan. 5.
N-alkylation of phenylaminoacetic acid esters. N. Brock, E. Kühas, and M. Schmeisser. 2,665,300, Jan. 5.
N-(1,1-dimethyl-3-hydroxybutyl)-lactamide, Making. W. P. Ratchford. 2,665,308, Jan. 5.
Nail, Self-clenching. E. Gisondi. 2,664,778, Jan. 5.
Naphthenate sized products. F. M. McMillan and R. D. Sullivan. 2,665,207, Jan. 5.
Negative plate material for storage batteries. T. P. McFarlane and O. Konig. 2,665,323, Jan. 5.
Nozzle construction for suction cleaners. G. A. Brace. 2,664,588, Jan. 5.
Nozzle, Fuel injection. C. F. High. 2,665,167, Jan. 5.
Nozzle support and switch oeprator. B. W. Foss and S. L. Hunter. 2,665,032, Jan. 5.

Nozzle with ram jet action. A. N. Stanton. 2,665,052, Jan. 5.
Obtaining anhydrous hydrogen chloride. C. C. Brumbaugh. 2,665,240, Jan. 5.
Oil well pump. J. R. Hatfield. 2,664,827, Jan. 5.
1,6-naphthalenediol, Production of. G. F. Lisk. 2,665,313, Jan. 5.
Opening means for locking wrench type pliers. W. E. Harvie. 2,664,774, Jan. 5.
Operating device for hold hatches. R. O. Aarvold. 2,664,947, Jan. 5.
Optical objectives with the front three components forming a divergent combination, Five component. G. H. Cook. 2,664,783, Jan. 5.
Organic thiocyanate herbicides. D. T. Mowry and A. H. Schlesinger. 2,665,202, Jan. 5.
Organo-tin compounds, Production of. H. J. Passino and G. G. Lauer. 2,665,286, Jan. 5.
Ornamental trim strip for cabinet tops. S. S. Battles. 2,665,183, Jan. 5.
Orthopedic apparatus. H. L. Coffman. 2,664,886, Jan. 5.
Oscillating stairs. A. M. Georgiev and L. J. Rawson. 2,664,990, Jan. 5.
Oven construction for ranges. R. C. McLaughlin and H. H. Ring. 2,664,877, Jan. 5.
Oxygen therapy tent. W. E. Wallace. 2,664,890, Jan. 5.
Package containing N-alkyl pyrrolidone-2, composition thereof, and absorbing acetylene thereby. J. C. Eck. 2,664,997, Jan. 5.
Pad: *See*—
Bust pad.
Paintbrush, Flexible handle. M. H. Kammann. 2,664,582, Jan. 5.
Pallet, Collapsible double-faced. H. O. Vogel. 2,665,096, Jan. 5.
Panel and mounting, Sliding. J. W. Greig. 2,664,598, Jan. 5.
Panel fastener. J. D. Figley. 2,665,155, Jan. 5.
Panel molding and assembly thereof. J. W. Greig. 2,664,596, Jan. 5.
Panel trim apparatus with orienting feed means. A. F. Pierce. 2,664,927, Jan. 5.
Panel wall joint. R. H. Cochrane. 2,664,740, Jan. 5.
Parachute quick-release device. C. H. Hannemann. 2,664,610, Jan. 5.
Parachute safety release. D. Manfredi and A. Raiti. 2,665,093, Jan. 5.
Partitioned folded-blank bottle carrier. W. C. George. 2,665,049, Jan. 5.
Partitions for boxes, cartons, and the like. A. Katzman. 2,665,026, Jan. 5.
Pen, Adjustable line width writing fountain. T. W. Lepkowski. 2,664,858 Jan. 5.
Pharmaceutical closure. R. B. Putz. 2,665,024, Jan. 5.
Phonograph, Automatic. J. Giannelli. 2,665,134, Jan. 5.
Photochemical production of 7-chlorocholesteryl ester. H. Schaltegger. 2,665,245, Jan. 5.
Photographic apparatus for correcting negatives during printing thereof. F. Waller. 2,664,781, Jan. 5.
Photographic flash lighting and synchronizing system. F. F. Tone. 2,664,795, Jan. 5.
Photographically correcting the photographic images of objects. F. Waller. 2,664,780, Jan. 5.
Picker for cranberries and the like. T. B. Darlington. 2,664,692, Jan. 5.
Pig castrating holder. J. C. Miller. 2,664,857, Jan. 5.
Pin: *See*—
Double bobby pin.
Pipe fastening means. A. S. Berg and A. N. Goregliad. 2,665,146, Jan. 5.
Pipe, Manufacture of. F. M. Darner and W. J. Caine. 2,665,362, Jan. 5.
Pipette, Multiple purpose hematocrit. S. G. Southwick. 2,664,752, Jan. 5.
Piston for hydraulic brakes. J. L. Salvatora. 2,665,179, Jan. 5.
Plant package. M. R. Mulford. 2,664,670, Jan. 5.
Plastic bonding machine. J. M. Torr. 2,664,938, Jan. 5.
Plate for serving pie. E. A. Barr. 2,664,722, Jan. 5.
Plow, Power pulverizing. R. P. Ganzmann. 2,664,803, Jan. 5.
Plug setter. D. B. McCormick. 2,664,953, Jan. 5.
Polycarboxylates. T. M. Patrick, Jr. 2,665,304, Jan. 5.
Polymerization control apparatus. E. E. Rowland. 2,665,197, Jan. 5.
Polymerization of N-vinyl lactams. H. Beller. 2,665,271, Jan. 5.
Portable apparatus for dispensing beverages. E. Harrison. 2,665,034, Jan. 5.
Position indicator for automobiles. T. P. Giblin and W. A. Erdon. 2,664,634, Jan. 5.
Positioning device for stapling machines. J. W. Cameron. 2,664,562, Jan. 5.
Positive pressure resuscitator. H. Seeler. 2,664,881, Jan. 5.
Post, Adjustable. C. E. Myers. 2,665,104, Jan. 5.
Posthole boring machine. F. Brink and J. E. Star. 2,665,116, Jan. 5.
Potentiometer. D. T. Van Alen and H. G. Foote. 2,665,355, Jan. 5.
Power cable with flow-limiting tapes, Oil-impregnated electric. R. W. Atkinson and M. H. McGrath. 2,665,328, Jan. 5.
Power divider, Wedge and shuttle type. A. H. Schmal. 2,664,766, Jan. 5.
Power supply, Regulated low-voltage. R. R. Cyr. 2,665,405, Jan. 5.
Power transmission, Automatic. T. F. Kuhn. 2,664,767, Jan. 5.
Power unit for tire inspection stands. P. E. Chollet. 2,664,709, Jan. 5.
Power washing centrifugal separator with indentations along the inner peripheral edges of the separating disks. W. H. Harstick. 2,665,060, Jan. 5.
Preheater and vaporizer for gas turbine engines. W. B. Whitelaw. 2,664,703, Jan. 5.
Preselector mechanism for liquid dispensing apparatus. H. B. Vroom. 2,665,030, Jan. 5.
Press: *See*—
Drill press. Pulp press.
Presser lifter actuating mechanism for sewing machines. A. N. Hale, E. L. Koenig, and W. J. Edwards. 2,664,841, Jan. 5.
Pressure gauge. J. J. McCrink. 2,664,750, Jan. 5.
Printing machine. E. J. Janke. 2,664,819, Jan. 5.
Producing hydrogen and carbon monoxide from gaseous hydrocarbons. H. Z. Martin and C. E. Hemminger. 2,665,199, Jan. 5.
Producing organic unsaturated nitriles. P. Kurtz and H. E. E. Schwarz. 2,665,297, Jan. 5.
Producing shock waves, Method and apparatus for. F. S. Smith. 2,664,850, Jan. 5.
Promoting catalytic reactions in the vapor phase. W. W. Odell. 2,665,288, Jan. 5.
Propeller-jet propulsion system for aircraft. J. R. Anderson. 2,665,082, Jan. 5.
Propeller meter. P. Jacusis. 2,664,746, Jan. 5.
Prospecting. R. J. Strawinski. 2,665,237, Jan. 5.
Protection of tire cellulose fiber against heat aging. H. M. Buckwalter. 2,665,230, Jan. 5.
Protector: *See*—
Finger ring protector.
Providing aluminum with a flexible oxide coating. G. W. Young and J. L. Hain. 2,665,243, Jan. 5.
Pruner head, Pole. T. M. Porter. 2,664,628, Jan. 5.
Pulley, Clothesline. K. Michalski. 2,665,114, Jan. 5.
Pulp press. C. E. Ahlborn. 2,664,814, Jan. 5.
Pulse-signal translating system. R. B. J. Brunn. 2,665,378, Jan. 5.
Pump: *See*—
Electrically operated fluid pump.
Pump control, Coin operated dispensing. S. H. Ellison. 2,664,983, Jan. 5.
Pump liner spacer stud. T. R. Hammer, H. H. Ingersoll, and C. R. Hodges. 2,665,178, Jan. 5.
Pump unit. A. H. Steenrod. 2,664,823, Jan. 5.
Pumping mechanism. R. Horton, N. E. Spiess, Jr., and K. R. Weaver. 2,664,829, Jan. 5.
Pumping system, Multicylinder. L. E. Sundstrom. 2,664,825, Jan. 5.
Pumping unit. L. Fincher. 2,664,824, Jan. 5.
Purification of waste gases containing chlorine by treatment with an alkaline nitrite solution to effect removal of the chlorine constituent therefrom. W. J. Congdon and C. F. Weston. 2,665,190, Jan. 5.
Quenching device. R. A. Gehr and E. S. Freshwater. 2,664,901, Jan. 5.
Quickly detachable swivel joint. E. H. Shumaker. 2,665,145, Jan. 5.
Rack: *See*—
Battery burning rack. Tie rack.
Sliding storage rack.
Radiant energy system for distance measuring. A. C. Winterhalter. 2,665,420, Jan. 5.
Radiator enclosure, Baseboard. H. S. Woodruff. 2,665,121, Jan. 5.
Radioactivity well logging. G. Herzog. 2,665,385, Jan. 5.
Radio telephone system. J. E. Collyer and E. P. Fairbairn. 2,665,375, Jan. 5.
Ray directing device. J. B. Bartow. 2,665,387, Jan. 5.
Razor, Safety. E. Van Koughnet. 2,664,625, Jan. 5.
Receiving mechanism for drawn glass strands. J. F. Courtney and A. C. Radtke. 2,664,671, Jan. 5.
Recording device, Graphic. L. C. Young. 2,664,648, Jan. 5.
Recovering vapors and solids from gas streams. R. S. Wood. 2,664,968, Jan. 5.
Recovery of durene. R. B. Bennett. 2,665,316, Jan. 5.
Recovery of oil from shale. J. K. Truitt and G. B. Arnold. 2,665,238, Jan. 5.
Rectangular hedge cutter. M. Friedman. 2,664,627, Jan. 5.
Rectifier assembly. F. J. Lingel. 2,665,399, Jan. 5.
Rectifier, Dry plate type. M. W. Brainard. 2,665,334, Jan. 5.
Rectifier, Dry plate type. M. W. Brainard. 2,665,398, Jan. 5.
Red iron oxide of high color purity and making same. G. E. Noponen. 2,665,193, Jan. 5.
Reel: *See*—
Cable reel.
Refining aluminum electrolytically. C. D. Ménégoz. 2,665,244, Jan. 5.
Refining catalyst laden hydrocarbons. E. W. Howard, J. B. Osborne, and H. P. Wickham. 2,665,239, Jan. 5.

Refining raw cocoa and raw masses made therefrom. O. F. Kaden. 2,665,210, Jan. 5.
Reflector and showcase frame member, Combination. C. K. Kurtzon. 2,665,370, Jan. 5.
Reflector for hand lanterns. W. W. Rashke. 2,665,373, Jan. 5.
Refrigeration apparatus and method employing cold accumulator. N. M. Warmon. 2,664,716, Jan. 5.
Refrigeration system of the inert gas type, Absorption. S. M. Backstrom. 2,664,717, Jan. 5.
Regulator: *See*—
Thread guide pressure regulator.
Regulator with automatic means for shutting off the fluid, Fluid pressure. V. Ey. 2,664,672, Jan. 5.
Relay. H. Burton. 2,665,345, Jan. 5.
Removing ballast with a vertical boom cribbing machine. H. H. Talboys. 2,664,652, Jan. 5.
Resilient suspension for farm implements. R. H. Green and S. A. Brackett. 2,664,805, Jan. 5.
Resiliently mounting vanes or frangible pump elements, Means for. S. G. Orban. 2,665,056, Jan. 5.
Resistor grid. R. E. Du Bois. 2,665,358, Jan. 5.
Resistor mounting. R. E. Du Bois. 2,665,357, Jan. 5.
Resistor structure. R. E. Du Bois. 2,665,356, Jan. 5.
Ribbon feeding mechanism. E. M. Lippert. 2,665,079, Jan. 5.
Ribbon vibrating mechanism for typewriting machines. L. B. Hill. 2,664,989, Jan. 5.
Ring mold. V. J. Di Chiara and M. Bruscini. 2,664,606, Jan. 5.
Rocking device. J. D. Lee. 2,664,575, Jan. 5.
Roller attachment for garden tractors. T. A. De Cato. 2,664,683, Jan. 5.
Roof structure for furnace heating chambers, Suspended. J. Rawlings. 2,664,836, Jan. 5.
Rotary scraper, abrading, or polishing tool. W. C. E. and D. W. S. Prins. 2,664,586, Jan. 5.
Rubberized broom fiber fabric. H. and E. Boinet. 2,665,222, Jan. 5.
Sadiron lift. I. Jepson. 2,664,655, Jan. 5.
Safety belt device for automobiles, Passenger. B. A. Rasmussen. 2,665,143, Jan. 5.
Safety device for aircraft seat ejectors. M. J. O. Lobelle. 2,665,088, Jan. 5.
Salt container. R. G. Ferris. 2,664,856, Jan. 5.
Salt tablet, Impregnated. H. W. Diamond. 2,665,236, Jan. 5.
Sampler, Grain. E. A. Johnson. 2,664,751, Jan. 5.
Sand trap for oil wells. G. F. Le Bus. 2,664,828, Jan. 5.
Sanding device, Pneumatic. D. R. Wickes. 2,664,678, Jan. 5.
Saniplus garbage barrel support. W. E. Oden. 2,665,098, Jan. 5.
Sawmill, Automatic portable. J. D. Bethea. 2,664,928, Jan. 5.
Saw sawmill, Automatic lumber-releasing traveling gang. E. A. Fuglie. 2,664,926, Jan. 5.
Saw with oppositely rotating blades, Portable power. J. H. and M. L. Jacobs. 2,664,925, Jan. 5.
Scaffold, Multiunit. E. L. Clarke. 2,665,174, Jan. 5.
Scaling machine, Fish. J. N. Brophy. 2,664,591, Jan. 5.
Scanning mechanism for color sorting machines. E. H. Bickley. 2,665,388, Jan. 5.
Scarifying and digging attachment for bulldozers, Combined. J. P. Woodward. 2,664,651, Jan. 5.
Scoop, Variable capacity measuring. H. W. Hein. 2,664,753, Jan. 5.
Seat: *See*—
Sportsman's seat.
Seat for aircraft, Ejection. J. Martin. 2,665,089, Jan. 5.
Seat with cushioned support means, Tractor. C. H. Gillespie. 2,664,941, Jan. 5.
Seats and ladder, Convertible, adjustable and collapsible. K. W. W. High. 2,664,940, Jan. 5.
Securement for hatch covers and the like. R. J. Stehling. 2,665,161, Jan. 5.
Selective chlorination of 2,5-dichlorophenol to 2,4,5-trichlorophenol in the presence of 2,4-dichlorophenol. K. W. Krantz. 2,665,314, Jan. 5.
Selective dual aileron control for aircraft. F. F. Crocombe and G. T. Hill. 2,665,085, Jan. 5.
Self-aligning carrier. R. G. Le Tourneau. 2,664,994, Jan. 5.
Self-regulating flow-control valve. R. C. Miller. 2,664,914, Jan. 5.
Separating gas mixtures, Process and apparatus for. P. K. Rice and E. F. Yendall. 2,664,719, Jan. 5.
Separation of oxygenated organic compounds. W. E. Hanford. 2,665,290, Jan. 5.
Servo assisted operating mechanism. S. H. Edge. 2,664,707, Jan. 5.
Severing machine for forming tufted fabrics. F. W. Riddle. 2,664,921, Jan. 5.
Sewing machine thread control. M. Joseph. 2,664,840, Jan. 5.
Shearing boards particularly for fishing trawl nets. K. Larsson. 2,664,660, Jan. 5.
Shears, Rotary. M. Morgan and J. M. O'Malley. 2,664,950, Jan. 5.
Shelf support mounting arrangement. A. G. Janos. 2,665,101, Jan. 5.
Shim for fan shaft bearings and the like, Ventilating. A. B. Newton. 2,665,059, Jan. 5.
Shipping container. M. Baumann. 2,665,050, Jan. 5.
Shipping package. M. Baumann and N. M. Sider. 2,665,002, Jan. 5.
Shirt wrapper and collar support, Combination. H. A. Tomarin. 2,665,051, Jan. 5.
Shoeshine device. B. Gaither. 2,664,585, Jan. 5.
Shutter mounting for engine cooling systems. J. L. Walker. 2,664,862, Jan. 5.
Sight for rocket launchers. E. W. Brandt. 2,664,635, Jan. 5.
Signal: *See*—
Line tension signal.
Silent magnetic switch. I. Zozulin and G. J. Okulitch. 2,665,344, Jan. 5.
Sizing and surface finishing paper tubes and the like, Means for. C. K. Dunlap. 2,664,793, Jan. 5.
Sizing of fibrous materials and compositions useful for sizing and for other purposes. T. F. Bradley. 2,665,206, Jan. 5.
Skirt marker. H. A. Reich. 2,664,633, Jan. 5.
Slasher with interchangeable press rolls. W. W. Smith and L. A. Prescott, Jr. 2,664,616, Jan. 5.
Sleigh, Automotive. R. Faszczuk. 2,664,962, Jan. 5.
Slide and barrel securing key for automatic pistols. B. Guisasola. 2,664,786, Jan. 5.
Sliding storage rack. T. Shaw. 2,665,097, Jan. 5.
Sludge precipitation, Electrostatic. J. R. Bates. 2,665,246, Jan. 5.
Soldering device. B. Siegrist and C. Wakker. 2,664,844, Jan. 5.
Sole, Auxiliary antislipping. M. Sabbagh. 2,664,650, Jan. 5.
Solenoid. H. W. Jencks. 2,665,397, Jan. 5.
Solid compositions containing polyoxyethylene ethers and urea. G. E. Barker. 2,665,256, Jan. 5.
Solvent extraction recovery method and apparatus. G. N. Harcourt. 2,665,198, Jan. 5.
Speed control circuit. J. A. Clark. 2,665,402, Jan. 5.
Spinning or twisting pot, Hanging. G. J. Quast. 2,664,696, Jan. 5.
Spirocyclohexanes and preparation thereof. G. F. Woods, Jr., and L. H. Schwartzman. 2,665,296, Jan. 5.
Spirocyclohexanes and preparation thereof. G. F. Woods, Jr., and L. H. Schwartzman. 2,665,302, Jan. 5.
Spirocyclohexanes and preparation thereof. G. F. Woods, Jr., and L. H. Schwartzman. 2,665,310, Jan. 5.
Spirocyclohexylquinolines and preparation thereof. L. H. Schwartzman and G. F. Woods, Jr. 2,665,276, Jan. 5
Split cradle for tubular stranding machines. C. O. Bruestle. 2,664,693, Jan. 5.
Sportsman's seat. E. S. Besch. 2,664,939, Jan. 5.
Spotlight luminaire, Incandescent. B. A. Wyman and F. C. Winkler. 2,665,372, Jan. 5.
Spray booth and fire extinguishing mechanism for the same. C. Winkler. 2,664,955, Jan. 5.
Spray forming shower tube. W. C. Stievater. 2,665,171, Jan. 5.
Spraying attachment for airplanes. G. C. Sands. 2,665,092, Jan. 5.
Spring tool. M. S. Romby. 2,665,109, Jan. 5.
Sprinkler head. J. J. Barz. 2,664,956, Jan. 5.
Stabilization of derivatives of dithiocarbamic acids. R. S. Johnson. 2,665,285, Jan. 5.
Stabilization of the viscosities of vat dye pastes. C. C. Schulze and C. Orenyo. 2,665,188, Jan. 5.
Stabilized compositions comprising monomeric 1,1-dicyano ethylene. A. E. Ardis. 2,665,298–9, Jan. 5.
Stabilized polyglycol compositions. E. O. Ohlmann and W. S. Thurber. 2,665,312, Jan. 5.
Stabilizing vehicles. W. I. E. Kamm. 2,665,137, Jan. 5.
Stamp device, Hand. G. T. Brown, Jr. 2,664,820, Jan. 5.
Stand: *See*—
Adjustable tool supporting stand.
Staple driver. R. A. Percoco. 2,664,565, Jan. 5.
Starter for internal-combustion engines, Vapor pressure. W. D. Teague, Jr. 2,664,710, Jan. 5.
Steam and dry iron. J. D. Voskresenski. 2,664,653, Jan. 5.
Steam boiler. C. Z. Alexander. 2,664,861, Jan. 5.
Stencil and backing unit. C. K. Heasley. 2,664,818, Jan. 5.
Stereoscopic device. G. L. Mandaville. 2,664,885, Jan. 5.
Stereoscopic television method and apparatus. R. Cahen. 2,665,335, Jan. 5.
Stereotype finishing machine. C. V. Knell. 2,664,788, Jan. 5.
Steroid pyridinium salts. J. P. Conbere. 2,665,274, Jan. 5.
Stocking and making same. M. M. Libn. 2,664,726, Jan. 5.
Stoker apparatus. D. L. Getz and E. C. Lafferty. 2,665,071, Jan. 5.
Stone picker. R. O. Schrum. 2,664,682, Jan. 5.
Stop motion for yarn winding machines. F. F. Stange. 2,665,077, Jan. 5.
Strainer with removable baffle and centering device, Milk. W. H. Harstick. 2,665,009, Jan. 5.
Strip feeding device. A. W. Metzner. 2,664,988, Jan. 5.
Stropper and honer. E. J. Speake. 2,664,677, Jan. 5.
Substituted glycinamides. W. F. Bruce and J. Seifter. 2,665,309, Jan. 5.
Suction cleaner. E. R. Swann. 2,664,965, Jan. 5.
Suit, Flexible shell. A. R. Mianulli. 2,664,566, Jan. 5.
Supplemental fuel feed device. D. E. Anderson. 2,664,871, Jan. 5.

Support: *See*—
Accordion knee support.
Saniplus garbage barrel support.
Tractor drawbar support.
Support. L. H. Flora and J. Balint 2,665,103, Jan. 5.
Support for hank drying machines, Traveling. J. Dean. 2,664,991, Jan. 5.
Supporting mechanism for rotating axle housings for welding. G. L. Turner. 2,664,843, Jan. 5.
Switch: *See*—
Alarm switch.
Silent magnetic switch.
Switch assembly, Contact-spring. J. I. Bellamy and R. P. Arthur. 2,665,352, Jan. 5.
Switch device, Rotary. B. S. Benson. 2,665,343, Jan. 5.
Switch housing. R. Popp. 2,665,353, Jan. 5.
Switch housing, Electric. R. Popp. 2,665,354, Jan. 5.
Symbol-printing mechanism. N. R. Frieberg and O. F. Larsen. 2,665,063, Jan. 5.
Synchronous electric clock motor. F. J. and R. P. Landgraf. 2,665,389, Jan. 5.
Synthetic resin compositions having improved light stability. A. R. Burgess. 2,665,265, Jan. 5.
Syringe, Disposable. G. P. Kempel. 2,664,891, Jan. 5.
Syringe, Douche. A. Henry and I. Keranen. 2,664,892, Jan. 5.
Table for house trailers, Extensible. M. C. Poole. 2,665,180, Jan. 5.
Tandem axle suspension. C. A. Lindblom. 2,665,141, Jan. 5.
Tank: *See*—
Combination pressure and vacuum tank.
Tank to contain gas under pressure, Self-sealing. C. S. Gehrie. 2,664,727, Jan. 5.
Tape-dispensing mechanism. A. P. Krueger. 2,665,078, Jan. 5.
Tape tensioning attachment for sewing machines. R. D. Cummins. 2,664,839, Jan. 5.
Telephonograph with answering device. M. G. Handschin. 2,665,337, Jan. 5.
Television receiver. M. E. Van Orden. 2,665,419, Jan. 5.
Tension relief device for cables. R. A. Guffey. 2,665,128, Jan. 5.
Tensioning machine employing feed rolls, Hide and skin. C. R. Campbell, Jr. 2,664,733, Jan. 5.
Thermal compensator. A. G. Plimmer. 2,664,787, Jan. 5.
Thermocouples, Making. D. H. MacDonald. 2,665,322, Jan. 5.
Thermoelectric generator. R. P. Flagg. 2,665,321, Jan. 5.
Thickening and stabilizing agents. C. T. Roland. 2,665,212, Jan. 5.
Thioamyl ester of diphenyldithiophosphinic acid and process therefor. G. M. Kosolapoff. 2,665,294, Jan. 5.
Thread guide pressure regulator. W. H. Shontz. 2,665,076, Jan. 5.
Throttle control and pitch synchronizing device. P. J. Dancik. 2,664,958, Jan. 5.
Tie rack. L. G. Simjian. 2,665,011, Jan. 5.
Tile covered, fireproofed structural element. J. P. Marcy. 2,664,739, Jan. 5.
Timepiece bearing. M. Vuilleumier. 2,664,697, Jan. 5.
Timer and control mechanism. K. M. Kiel. 2,664,755, Jan. 5.
Timing system. Z. R. Keck. 2,664,949, Jan. 5.
Tire bead setting apparatus. A. C. Hirsch and G. F. Wikle. 2,664,937, Jan. 5.
Tire chain connector. H. D. Beck. 2,664,608, Jan. 5.
Tire, Large volume multichamber. J. B. Des Rosiers. 2,664,935, Jan. 5.
Tire spreader and tire-lifting hoist therefor, Combination. C. E. Branick. 2,665,108, Jan. 5.
Tire, Wrapped. H. D. Corney. 2,665,001, Jan. 5.
Tool: *See*—
Crimping tool.
Electrically heated tool.
Expansion tool.
Rotary scraper, abrading, or polishing tool.
Spring tool.
Tool assembly, Cutting. B. Kralowetz. 2,664,617, Jan. 5.
Tool for wells, Percussion. R. Bassinger. 2,665,115, Jan. 5.
Topping governor and reversing solenoid for variable pitch propellers. M. E. Longfellow and N. R. Richmond. 2,664,960, Jan. 5.
Torch holder and paint scraper, Combination. E. J. Maresca. 2,664,945, Jan. 5.
Toy airplane, Acrobatic. N. E. Walker. 2,664,666, Jan. 5.
Toy balloon holder. H. P. Burroughs. 2,664,667, Jan. 5.
Toy, Dancing. R. H. Turner. 2,664,668, Jan. 5.
Toy for handling toy merchandise. J. L. Bonanno and A. D. Gash, Jr. 2,664,664, Jan. 5.
Toy, Rolling. M. Tannen. 2,664,669, Jan. 5.
Toy telephone switchboard. N. Rozenoff. 2,664,665, Jan. 5.
Tractor drawbar support. C. T. O'Harrow. 2,664,804, Jan. 5.
Tractor, Logging. R. G. Le Tourneau. 2,665,110, Jan. 5.
Transfer device for conveyers. R. H. Griffin. 2,664,731, Jan. 5.
Transmission and control mechanism therefor. D. W Kelbel. 2,664,765, Jan. 5.
Tray, Posting. J. D. Lear. 2,664,898, Jan. 4.
Treating a running blanket of staple length artificial fibers. C. W. Cox. 2,665,189, Jan. 5.
Treating froth flotation concentrates. A. W. Zukosky. 2,665,004, Jan. 5.
Treating rubber obtained from rubber-bearing plants. F. E. Clark and I. C. Feustel. 2,665,317, Jan. 5.
Treatment of aqueous dispersions. C. T. Roland. 2,665,211, Jan. 5.
Treatment of sulfonyl chlorides. H. E. Cier. 2,665,305, Jan. 5.
Treatment of wool grease. J. P. Stanley. 2,665,282, Jan. 5.
Trichloroacrylyl chloride. J. S. Newcomer. 2,665,307, Jan. 5.
Truck, Lifting. N. Warshaw. 2,664,970, Jan. 5.
Truck stabilizer package unit. C. P. Leese. 2,665,127, Jan. 5.
Truck with automatic load support adjustment, Hand. A. Puig Salsas. 2,665,018, Jan. 5.
Truck with ball joint coupling, Hand. P. Schroeder. 2,665,139, Jan. 5.
Tube: *See*—
Air vent tube.
Breather tube.
Cooled flame tube.
Spray forming shower tube.
Tube and closure therefor, Collapsible dispensing. E. J. Robertson. 2,665,033, Jan. 5.
Tube closure, Compressible. A. W. Fowler. 2,665,038, Jan. 5.
Tube flaring and nut assembling machine. R. I. Hahn and C. M. Franklin. 2,664,619, Jan. 5.
Tuning system for television receivers, Universal. J. E. Krepps, Jr. 2,665,377, Jan. 5.
2,4-diamino-7,8-disubstituted pteridines. N. R. Campbell, M. E. H. Fitzgerald, and H. O. J. Collier. 2,665,275, Jan. 5.
Unloading lumber and the like, Apparatus and method for. C. S. Lorimer. 2,665,019, Jan. 5.
Unloading valve. F. J. Strnad. 2,664,908, Jan. 5.
Upsetting apparatus. L. F. Knight. 2,665,359, Jan. 5.
V-type packing for eliminating labyrinth flow. W. C. Fisler and O. M. Summers. 2,665,151, Jan. 5.
Vacuum cleaner end closure and dusting tool converter coupling therefor. W. A. Humphrey and D. C. Gerber. 2,665,148, Jan. 5.
Valve: *See*—
Automatic hydraulic valve.
Diaphragm sealed valve.
Flow distributor valve.
Fluid regulator valve.
Hydraulic elevator descent control valve.
Self-regulating flow-control valve.
Unloading valve.
Valve control, Interrelated automatic and manual. P. H. Drinker. 2,664,915, Jan. 5.
Valve faucet, All-metal. J. C. Ross. 2,665,106, Jan. 5.
Valve for controlling flow of gas to burners. D. E. Blackford. 2,665,107, Jan. 5.
Valve for controlling the admission of refrigerant to evaporators. W. A. Ray. 2,665,072, Jan. 5.
Valve for spray systems, Control. W. F. Borgerd. 2,664,715, Jan. 5.
Valve protection plate, Automobile. H. F. McKenna. 2,664,869, Jan. 5.
Valve ring for centrifugal separators, Centrifugally operable. W. H. Harstick. 2,664,905, Jan. 5.
Vapor coating. P. J. Clough and P. Godley, 2nd. 2,665,224, Jan. 5.
Vapor coating, Method and apparatus for. P. Godley, 2nd, P. J. Clough, and R. A. Stouffer. 2,665,226, Jan. 5.
Variable speed governor. J. E. Russo. 2,664,974, Jan. 5.
Varying the circumference of printing cylinders, Method of and means for. H. W. Huffman. 2,664,821, Jan. 5.
Vehicle driven by electric motors, Trackless. K. Kreibich. 2,664,830, Jan. 5.
Vehicle for palletized loads, Self-loading and unloading. C. E. Whittle. 2,665,020, Jan. 5.
Vehicle having a removable section. A. G. Talbert. 2,665,142, Jan. 5.
Vehicle hitch. G. O. Birdwell. 2,665,144, Jan. 5.
Vending machine. P. E. Hood. 2,665,184, Jan. 5.
Vent plug and electrolyte leveling device for aircraft storage batteries. M. A. Knight. 2,665,326, Jan. 5.
Ventilating system, Dining car kitchen. H. F. Peterson. 2,664,808, Jan. 5.
Vine turner attachment for cultivators. C. T. McCready. 2,664,806, Jan. 5.
Visor assembly for automotive vehicles. F. A. Krusemark. 2,665,140, Jan. 5.
Visor, Car side sun. G. L. Roark. 2,665,166, Jan. 5.
Vulcanization of rubber. J. M. Butler. 2,665,268, Jan. 5.
Wall outlet and fixture mounting. L. J. Wong. 2,665,330, Jan. 5.
Waste disposal. F. J. Zimmermann. 2,665,249, Jan. 5.
Watered, Electric automatic stock and chicken. W. F. Cleveland. 2,665,366, Jan. 5.
Watermelon carrier. S. Moore, E. J. Meyers, and P. R. Nolan. 2,665,162, Jan. 5.
Water softener. A. Mendenhall 2,665,251, Jan. 5.
Wearing apparel with stretchable circumferential insets. W. W. Artzt. 2,664,570, Jan. 5.
Welder control, Flash. H. H. Hansen. 2,665,360, Jan. 5.
Well fishing socket or tool. F. J. Spang. 2,665,164, Jan. 5.
Well radioactivity logging apparatus. S. Krasnow and M. J. Test. 2,665,386, Jan. 5.
Well servicing equipment, Portable. H. J. Woolslayer, C. Jenkins, C. D. Iddings, and E. A. Campbell. 2,664,976, Jan. 5.
Wheel assembly for vehicle trailers, Retractable road. G. M. Tompkins. 2,665,138, Jan. 5.

Wheel dresser. W. H. Koch. 2,664,875, Jan. 5.
Wheel for tractor trailers and the like. Fifth. G. C. Schaefer. 2,665,177, Jan. 5.
Wheel for tricycle tractors. Track laying front. R. J. Miller. 2,665,175, Jan. 5.
Wheel structure for aircraft. Landing. L. W. Clover. 2,665,087, Jan. 5.
Wheel traction device. J. Safran. 2,664,934, Jan. 5.
Wheeled device for transporting boats. R. H. Sanborn. 2,664,577, Jan. 5.
Winding device. J. L. Foster. 2,665,113, Jan. 5.
Window channel construction. C. J. McKinney. 2,664,603, Jan. 5.
Window construction. J. Meindl. 2,664,601, Jan. 5.
Window structure. A. Zitomer. 2,664,599, Jan. 5.
Window structure, Sliding. R. H. Smith. 2,664,600, Jan. 5.
Windshield wiping blade. J. R. Oishei. 2,664,583, Jan. 5.
Winning potassium chloride from underground deposits. W. M. Cross, Jr. 2,665,124, Jan. 5.
Wire distributing floor structure. J. W. Wiesmann. 2,665,147, Jan. 5.
Wire distributing system, Underfloor. J. W. Weismann. 2,665,027, Jan. 5.
Wire stripper. E. Rennie and W. W. Hyde. 2,664,769, Jan. 5.
Work loading mechanism. J. M. Strachan. 2,664,790, Jan. 5.
X-ray tube having a mica window. J. Bleeksma. 2,665,391, Jan. 5.

CLASSIFICATION OF PATENTS

ISSUED JANUARY 5, 1954

NOTE.—First number = class, second number = subclass, third number = patent number

1— 3: 2,664,562
39.8: 2,664,563
49: 2,664,565
2— 2: 2,664,566
3: 2,664,567
42: 2,664,564
2,664,568
68: 2,664,569
78: 2,664,570
267: 2,664,571
3— 19: 2,664,572
4— 1: 2,664,573
5— 43: 2,664,574
109: 2,664,575
331: 2,664,576
8— 34: 2,665,188
156: 2,665,189
9— 1: 2,664,577
21: 2,664,578
10— 13: 2,664,579
13— 14: 2,665,318
26: 2,665,319
27: 2,665,320
15— 3.2: 2,664,580
131.1: 2,664,581
143: 2,664,582
245: 2,664,583
260: 2,664,584
265: 2,664,585
327: 2,664,586
333: 2,664,587
416: 2,664,588
16— 16: 2,664,589
65: 2,664,590
17— 5: 2,664,591
18— 26: 2,664,592
35: 2,664,593
19— 158: 2,664,594
20— 5: 2,664,595
15: 2,664,596
16: 2,664,597
19: 2,664,598
52.2: 2,664,599
52.3: 2,664,600
53: 2,664,601
69: 2,664,602
2,664,603
21— 74: 2,664,604
22— 57.3: 2,664,605
114: 2,664,606
200.1: 2,664,607
23— 2: 2,665,190
87: 2,665,191
147: 2,665,192
200: 2,665,193
209.8: 2,665,194
219: 2,665,195
270.5: 2,665,196
285: 2,665,197
310: 2,665,198
24— 73: 2,664,608
123: 2,664,609
201: 2,664,610
211: 2,664,611
237: 2,664,612
25— 128: 2,664,613
27— 4: 2,664,614
19: 2,664,615
28— 28: 2,664,616
29— 105: 2,664,617
182.5: 2,664,618
241: 2,664,619
256: 2,664,620
275: 2,664,621
366: 2,664,622
30— 10: 2,664,623
28: 2,664,624
47: 2,664,625
123: 2,664,626
211: 2,664,627
249: 2,664,628
294: 2,664,629
322: 2,664,630
32— 2: 2,664,631
26: 2,664,632
33— 9: 2,664,633
46: 2,664,634
33— 50: 2,664,635
85: 2,664,636
125: 2,664,637
168: 2,664,638
169: 2,664,639
172: 2,664,640
174: 2,664,641
178: 2,664,642
180: 2,664,643
203.2: 2,664,644
209: 2,664,645
34— 82: 2,664,646
196: 2,664,647
35— 24: 2,664,648
35: 2,664,649
36— 7.7: 2,664,650
37— 2: 2,664,651
195: 2,664,652
38— 77: 2,664,653
2,664,654
79: 2,664,655
140: 2,664,656
40— 79: 2,664,657
42— 70: 2,664,658
94: 2,664,659
43— 9: 2,664,660
21.2: 2,664,661
43.4: 2,664,662
131: 2,664,663
46— 45: 2,664,664
2,664,665
79: 2,664,666
90: 2,664,667
137: 2,664,668
207: 2,664,669
47— 37: 2,664,670
60: P.P.1,238
61: P.P.1,239
48— 196: 2,665,199
197: 2,665,200
205: 2,665,201
49— 17: 2,664,671
50— 5: 2,664,672
10: 2,664,673
23: 2,664,674
51— 2: 2,664,675
7: 2,664,676
112: 2,664,711
153: 2,664,677
170: 2,664,678
255: 2,664,679
274: 2,664,680
283: 2,664,681
55— 17: 2,664,682
48: 2,664,683
56— 1: 2,664,684
25.4: 2,664,685
30: 2,664,686
35: 2,664,687
41: 2,664,688
2,664,689
297: 2,664,690
328: 2,664,691
330: 2,664,692
57—58.34: 2,664,693
58.65: 2,664,694
133: 2,664,696
58— 121: 2,664,695
140: 2,664,697
60— 24: 2,664,698
2,664,699
35.54: 2,664,700
39.09: 2,664,701
39.65: 2,664,702
39.71: 2,664,703
54: 2,664,704
2,664,705
2,664,706
54.5: 2,664,707
97: 2,664,708
2,664,709
106: 2,664,710
61— 22: 2,664,712
29: 2,664,713
30: 2,664,714
62— 3: 2,664,715
95: 2,664,716
62—119.5: 2,664,717
122: 2,664,718
2,664,719
129: 2,664,720
2,664,721
65— 15: 2,664,722
66— 54: 2,664,723
86: 2,664,724
171: 2,664,725
182.2,664,726
67— 7: 2,664,727
7.1: 2,664,728
41: 2,664,729
68— 131: 2,664,730
210: Re.23,764
69— 1: 2,664,731
2,664,732
34: 2,664,733
70— 57: 2,664,734
71: 2,664,735
150: 2,664,736
211: 2,664,737
312: 2,664,738
71— 2.3: 2,665,202
2.5: 2,665,203
2.6: 2,665,204
72— 73: 2,664,739
107: 2,664,740
128: 2,664,741
73— 32: 2,664,742
79: 2,664,743
86: 2,664,744
122: 2,664,745
140: 2,664,746
290: 2,664,747
2,664,748
407: 2,664,749
409: 2,664,750
422: 2,664,751
425.4: 2,664,752
429: 2,664,753
74— 2: 2,664,755
217: 2,664,756
221: 2,664,758
230.17: 2,664,757
405: 2,664,759
458: 2,664,760
473: 2,664,761
565: 2,664,762
574: 2,664,763
589: 2,664,764
645: 2,664,765
650: 2,664,766
752: 2,664,767
75— 126: 2,665,205
77— 34.5: 2,664,768
81— 9.5: 2,664,769
13: 2,664,770
2,664,771
15: 2,664,772
2,664,773
84: 2,664,774
84— 1.04: 2,664,775
376: 2,664,776
2,664,777
85— 11: 2,664,778
88— 14: 2,664,779
24: 2,664,780
2,664,781
2,664,782
57: 2,664,783
74: 2,664,784
98: 2,664,785
89— 163: 2,664,786
90— 13: 2,664,787
15: 2,664,788
17: 2,664,789
21: 2,664,790
56: 2,664,791
92— 3: 2,665,206
2,665,207
74: 2,664,792
93— 83: 2,664,793
94— 46: 2,664,794
95— 11.5: 2,664,795
2,664,796
12: 2,664,797
95— 31: 2,664,798
2,664,799
55: 2,664,800
89: 2,664,801
97— 18: 2,664,802
35: 2,664,803
46.35: 2,664,804
46.95: 2,664,805
192: 2,664,806
227: 2,664,807
98— 10: 2,664,808
37: 2,664,809
99— 1: 2,665,208
9: 2,665,209
23: 2,665,210
25: 2,665,211
2,665,212
31: 2,665,213
81: 2,665,214
91: 2,665,215
136: 2,665,216
154: 2,665,217
234: 2,664,810
281: 2,664,811
426: 2,664,812
100— 25: 2,664,813
117: 2,664,814
101— 19: 2,664,815
37: 2,664,816
92: 2,664,817
128.2: 2,664,818
274: 2,664,819
405: 2,664,820
415.1: 2,664,821
102— 74: 2,664,822
103— 5: 2,664,823
6: 2,664,824
46: 2,664,825
152: 2,664,826
179: 2,664,827
220: 2,664,828
241: 2,664,829
104— 247: 2,664,830
253: 2,664,831
105— 377: 2,664,832
106— 35: 2,665,218
46: 2,665,219
107— 6: 2,664,833
15: 2,664,834
108— 8: 2,664,835
110— 99: 2,664,836
2,664,837
173: 2,664,838
112— 152: 2,664,839
219: 2,664,840
237: 2,664,841
113— 59: 2,664,842
2,664,843
110: 2,664,844
116— 67: 2,664,845
117: 2,664,846
119: 2,664,847
124.4: 2,664,848
129: 2,664,849
137: 2,664,850
117— 33.5: 2,665,220
60: 2,665,221
80: 2,665,222
103: 2,665,228
107: 2,665,223
2,665,224
2,665,225
2,665,226
2,665,227
2,665,229
141: 2,665,230
118— 12: 2,664,851
49: 2,664,852
2,664,853
417: 2,664,854
119— 48: 2,664,855
51: 2,664,856
103: 2,664,857
120— 42: 2,664,858
121— 1: Re.23,763
38: 2,664,859
2,664,860
122— 165: 2,664,861
123—41.04: 2,664,862
41.33: 2,664,863
52: 2,664,864
2,664,865
58: 2,664,866
103: 2,664,867
2,664,868
122: 2,664,870
127: 2,664,871
179: 2,664,872
188: 2,664,873
2,664,874
191: 2,664,869
125— 11: 2,664,875
126— 25: 2,664,876
39: 2,664,877
41: 2,664,878
128— 2: 2,664,879
24.1: 2,664,880
29: 2,664,881
33: 2,664,882
46: 2,664,883
67: 2,664,884
76.5: 2,664,885
80: 2,664,886
146: 2,664,887
159: 2,664,888
2,664,889
191: 2,664,890
224: 2,664,891
229: 2,664,892
232: 2,664,893
261: 2,664,894
287: 2,664,895
129— 1: 2,664,896
24: 2,664,897
26: 2,664,898
132— 52: 2,664,899
134— 56: 2,664,900
105: 2,664,901
175: 2,664,902
176: 2,664,903
179: 2,664,904
136— 4: 2,665,321
2,665,322
26: 2,665,323
2,665,324
39: 2,665,325
178: 2,665,326
182: 2,665,327
137— 56: 2,664,905
2,664,906
100: 2,664,907
108: 2,664,908
111: 2,664,909
118: 2,664,910
205: 2,664,911
211: 2,664,912
218: 2,664,913
505: 2,664,914
653: 2,664,915
2,664,916
786: 2,664,917
138— 94.3: 2,664,918
139— 44: 2,664,919
291: 2,664,920
2,664,921
408: 2,664,922
143— 5: 2,664,923
36: 2,664,924
43: 2,664,925
47: 2,664,926
49: 2,664,927
115: 2,664,928
144— 208: Re.23,765
2,664,929
218: 2,664,930
244: 2,664,931
146— 28: 2,664,932
148— 6.15: 2,665,231
6.2: 2,665,232
150— 1.5: 2,664,933
152— 225: 2,664,934
339: 2,664,935
347: 2,664,936
154— 10: 2,664,937
154— 42: 2,664,938
155— 37: 2,664,939
42: 2,664,940
52: 2,664,941
106: 2,664,942
128: 2,664,943
171: 2,664,944
158— 13.6: 2,664,945
160— 21: 2,664,946
193: 2,664,947
161— 1: 2,664,948
2,664,949
164— 60: 2,664,950
112: 2,664,951
166— 10: 2,664,952
13: 2,664,953
21: 2,664,954
167— 33: 2,665,233
38: 2,665,234
64: 2,665,235
82: 2,665,236
169— 2: 2,664,955
38: 2,664,956
170—135.28: 2,664,957
135.74: 2,664,958
2,664,959
160.2: 2,664,960
160.6: 2,664,961
174— 25: 2,665,328
52: 2,665,329
61: 2,665,330
94: 2,665,331
178— 6.5: 2,665,335
79: 2,665,336
179— 6: 2,665,337
18: 2,665,338
171: 2,665,339
180— 6: 2,664,962
183— 2.7: 2,664,963
44: 2,664,964
51: 2,664,965
91: 2,664,966
114.2: 2,664,967
120: 2,664,968
184— 15: 2,664,969
187— 9: 2,664,970
29: 2,664,971
188— 78: 2,664,972
106: 2,664,973
187: 2,664,974
196: 2,664,975
189— 11: 2,664,976
42: 2,664,977
88: 2,664,978
192— 94: 2,664,979
3.5: 2,664,980
84: 2,664,981
105: 2,664,982
194— 3: 2,664,983
10: 2,664,984
195—103.5: 2,665,237
196— 14: 2,665,238
52: 2,665,239
197— 6.5: 2,664,985
84: 2,664,986
2,664,987
133: 2,664,988
157: 2,664,989
198— 16: 2,664,990
33: 2,664,991
2,664,992
177: 2,664,993
202: 2,664,994
220: 2,664,995
200— 43: 2,665,340
50: 2,665,341
52: 2,665,342
65: 2,665,343
67: 2,665,344
97: 2,665,345
108: 2,665,346
116: 2,665,347
120: 2,665,348
123: 2,665,349
135: 2,665,350
148: 2,665,351
166: 2,665,352
168: 2,665,353

200— 168: 2,665,354
201— 48: 2,664,754
56: 2,665,355
63: 2,665,356
2,665,357
69: 2,665,358
202— 51: 2,665,240
57: 2,665,241
268: 2,665,242
204— 35: 2,665,243
67: 2,665,244
158: 2,665,245
184: 2,665,246
225: 2,665,247
205— 26: 2,664,996
206— 7: 2,664,997
1: 2,664,998
16: 2,664,999
29: 2,665,000
46: 2,665,001
2,665,002
79: 2,665,003
209— 10: 2,665,004
72: 2,665,005
244: 2,665,006
210— 2: 2,665,248
2,665,249
16: 2,665,250
24: 2,665,251
63: 2,665,007
2,665,008
158: 2,665,009
211— 43: 2,665,010
99: 2,665,011
212— 8: 2,665,012
214— 1: 2,665,013
17: 2,665,014
2,665,015
78: 2,665,016
140: 2,665,017
371: 2,665,018
512: 2,665,019
517: 2,665,020
620: 2,665,021
653: 2,665,022
215— 45: 2,665,023
46: 2,665,024
216— 13: 2,665,025
217— 22 2,665,026
219— 3: 2,665,359
4: 2,665,360
2,665,361
6: 2,665,362
10: 2,665,363
22: 2,665,364
26: 2,665,365

219— 38: 2,665,366
47: 2,665,367
2,665,368
220— 3.8: 2,665,027
40: 2,665,028
90: 2,665,029
222— 16: 2,665,030
57: 2,665,031
74: 2,665,032
107: 2,665,033
145: 2,665,034
195: 2,665,035
196: 2,665,036
490: 2,665,037
561: 2,665,038
223— 37: 2,665,039
68: 2,665,040
75: 2,665,041
224— 5: 2,665,042
226— 18: 2,665,043
19: 2,665,044
98: 2,665,045
102: 2,665,046
229— 14: 2,665,047
27: 2,665,048
28: 2,665,049
33: 2,665,050
87: 2,665,051
230— 4: 2,665,053
114: 2,665,054
2,665,055
149: 2,665,056
150: 2,665,057
202: 2,665,058
211: 2,665,059
233— 1: 2,665,060
15: 2,665,061
235—60.17: 2,665,063
60.5: 2,665,064
61: 2,665,065
2,665,066
2,665,067
2,665,068
2,665,069
79: 2,665,070
87: 2,665,062
236— 73: 2,665,071
80: 2,665,072
237— 67: 2,665,073
240— 1.4: 2,665,369
6: 2,665,370
46.01: 2,665,371
78: 2,665,372
105: 2,665,373
148: 2,665,374
241— 80: 2,665,074
242— 7: 2,665,075

242— 18: 2,665,076
37: 2,665,077
55.5: 2,665,078
70: 2,665,079
74: 2,665,080
90: 2,665,081
244— 7: 2,665,082
12: 2,665,083
42: 2,665,084
49: 2,665,085
77: 2,665,086
103: 2,665,087
122: 2,665,088
2,665,089
134: 2,665,090
135: 2,665,091
136: 2,665,092
139: 2,665,093
248— 27: 2,665,094
43: 2,665,095
120: 2,665,096
128: 2,665,097
137: 2,665,098
183: 2,665,099
229: 2,665,100
239: 2,665,101
280: 2,665,102
314: 2,665,103
354: 2,665,104
250— 6: 2,665,375
20: 2,665,376
2,665,377
27: 2,665,378
2,665,379
33: 2,665,380
2,665,381
2,665,382
33.65: 2,665,383
41.9: 2,665,384
83: 2,665,385
83.6: 2,665,386
105: 2,665,387
237: 2,665,388
251— 31: 2,665,105
131: 2,665,106
164: 2,665,107
252— 33: 2,665,252
52: 2,665,253
2,665,254
152: 2,665,256
307: 2,665,257
448: 2,665,258
449: 2,665,259
254— 50.3: 2,665,108
114: 2,665,109
150: 2,665,110
157: 2,665,111

254— 185: 2,665,112
187: 2,665,113
190: 2,665,114
255— 4.4: 2,665,115
19.1: 2,665,116
20: 2,665,117
257— 1: 2,665,118
2,665,119
6: 2,665,120
133: 2,665,121
259— 108: 2,665,122
260— 17.3: 2,665,260
2,665,261
31.2: 2,665,262
40: 2,665,263
41.5: 2,665,264
45.75: 2,665,265
46: 2,665,266
63: 2,665,267
79.5: 2,665,268
84.7: 2,665,269
88.1: 2,665,270
88.3: 2,665,271
94.4: 2,665,272
154: 2,665,273
239.5: 2,665,274
251.5: 2,665,275
283: 2,665,276
285: 2,665,277
294.7: 2,665,278
295: 2,665,279
340.6: 2,665,280
343.2: 2,665,281
406: 2,665,282
407: 2,665,283
2,665,284
429: 2,665,285
2,665,286
448.2: 2,665,287
449.6: 2,665,288
2,665,289
450: 2,665,290
455: 2,665,291
2,665,292
456: 2,665,293
461: 2,665,294
2,665,295
465: 2,665,296
465.7: 2,665,297
465.8: 2,665,298
2,665,299
471: 2,665,300
476: 2,665,301
479: 2,665,302
483: 2,665,303
2,665,304
504: 2,665,305

260— 544: 2,665,307
561: 2,665,308
562: 2,665,309
2,665,310
583: 2,665,311
611.5: 2,665,312
621: 2,665,313
623: 2,665,314
666: 2,665,315
674: 2,665,316
818: 2,665,317
261— 108: 2,665,123
262— 2: 2,665,124
263— 3: 2,665,125
266— 4: 2,665,126
267— 9: 2,665,127
71: 2,665,128
268— 66: 2,665,129
271— 2.3: 2,665,130
273— 47: 2,665,131
65: 2,665,132
105.1: 2,665,133
274— 10: 2,665,134
275— 6: 2,665,135
279— 1: 2,665,136
280— 1: 2,665,137
41: 2,665,138
46: 2,665,139
104.5: 2,665,141
2,665,142
150: 2,665,143
462: 2,665,144
285— 11: 2,665,145
30: 2,665,146
102: 2,665,147
169: 2,665,148
286— 26: 2,665,149
287— 52: 2,665,150
288— 16: 2,665,151
292— 108: 2,665,152
144: 2,665,153
169: 2,665,154
194: 2,665,155
216: 2,665,156
2,665,157
2,665,158
2,665,159
2,665,160
256.5: 2,665,161
294— 16: 2,665,162
83: 2,665,163
102: 2,665,164
296— 28: 2,665,165
95: 2,665,140
97: 2,665,166
299— 26: 2,665,052

299— 28: 2,665,168
47: 2,665,169
88: 2,665,170
104: 2,665,171
107.6: 2,665,167
302— 53: 2,665,172
303— 40: 2,665,173
304— 2: 2,665,174
305— 9: 2,665,175
308— 127: 2,665,176
136: 2,665,177
309— 3: 2,665,178
4: 2,665,179
310— 164: 2,665,389
311— 41: 2,665,180
87: 2,665,181
107: 2,665,182
2,665,183
312— 97: 2,665,184
313— 29: 2,665,390
59: 2,665,391
62: 2,665,392
315— 27: 2,665,393
97: 2,665,394
133: 2,665,395
317— 11: 2,665,396
191: 2,665,397
234: 2,665,334
2,665,398
2,665,399
258: 2,665,400
318— 7: 2,665,401
140: 2,665,402
165: 2,665,403
227: 2,665,404
321— 24: 2,665,405
323— 45: 2,665,406
109: 2,665,407
324— 14: 2,665,332
17: 2,665,408
34: 2,665,333
61: 2,665,409
68: 2,665,410
2,665,411
71: 2,665,412
333— 26: 2,665,413
334— 259: 2,665,415
339— 4: 2,665,414
340— 6: 2,665,416
40: 2,665,417
146: 2,665,418
369: 2,665,419
343— 12: 2,665,420
346— 30: 2,665,185
33: 2,665,186
108: 2,665,187

CLASSIFICATION OF DESIGNS

D 3— 4: Des. 176,257
11: Des. 171,259
19: Des. 171,260
D13— 1: Des. 171,244
D15— 8: Des. 171,265
D17— 3: Des. 171,247

D17—12: Des. 171,263
D31— 3: Des. 171,255
D34— 5: Des. 171,246
Des. 171,248
Des. 171,261

D34—11: Des. 171,243
15: Des. 171,256
D44— 9: Des. 171,267
15: Des. 171,252
21: Des. 171,241

D44—29: Des. 171,270
D45— 4: Des. 171,268
D47— 7: Des. 171,253
Des. 171,254
D52— 1: Des. 171,262

D54—12: Des. 171,245
D55— 1: Des. 171,266
D57— 7: Des. 171,271
D58— 6: Des. 171,269
13: Des. 171,242

D66— 1: Des. 171,258
D86—10: Des. 171,264
D90— 8: Des. 171,249
Des. 171,250
Des. 171,251

U. S. GOVERNMENT PRINTING OFFICE: 0——1993

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,072,911, E. G. Touceda, Alloy, appeal filed Aug. 27, 1953, C. C. A., 2d Cir., New York, Doc. 22816, *Consolidated Car-Heating Co., Inc.* v. *Chrome-Gold Alloys Corp. et al.*

2,177,627, R. G. Drew, Adhesive sheeting, filed Oct. 9, 1953, D. C., S. D. N. Y., Doc. 88/265, *Technical Tape Corp. et al.* v. *Minnesota Mining & Mfg. Co.*

2,203,458, R. Federer, Bowling alley, filed Oct. 14, 1953, D. C., E. D. Wis. (Milwaukee), Doc. 6090, *R. Federer* v. *L. Casper.*

2,239,379, G. Bucky, Self-focusing and illuminating device for photographic cameras; 2,292,044, same, Illumination for cameras; 2,422,077, same, Camera shutter system, appeal filed Aug. 28, 1953, C. C. A., 2d Cir., New York, Doc. 22820, *G. Bucky et al.* v. *Coreco Research Corp. et al.*

2,292,044. (See 2,239,379.)

2,344,151, M. Kasser, Method and apparatus for treating perishable articles, filed Oct. 7, 1953, D. C., N. D. Calif. (San Francisco), Doc. 33101, *M. K. K. Corp. et al.* v. *Bruce Church.*

2,380,112. (See Re. 23,416.)

2,420,322. (See 2,620,277.) 2,422,077. (See 2,239,379.)

2,458,134, C. D. Belden, Adjustable ventilator, filed Oct. 13, 1953, D. C., W. D. Mich. (Grand Rapids), Doc. 2302, *D. A. Belden et al.* v. *Air Control Products, Inc.*

2,465,331, J. Y. Resnick, Television receiving antenna, appeal filed Aug. 24, 1953, C. C. A., 2d Cir., Doc. 22815, *Channel Master Corp.* v. *Video Television, Inc.*

2,479,530, O. E. Watson, Store basket and carriage, D. C., E. D. Mich. (Detroit), Doc. 11025, *Telescope Carts, Inc.* v. *United Steel & Wire Co.* Stipulation and order of dismissal without prejudice (notice Oct. 15, 1953).

2,515,417, J. G. Myers, Oiler for pneumatic tools, filed Oct. 12, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c2028, *Keller Tool Co.* v. *Arrow Tools, Inc.*

2,566,638, Shoults & Walker, Wear pad, filed Oct. 16, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13898, *C. A. Brictson* v. *Karvex Mfg. Co.*

2,587,024, F. J. Avery, Apparatus for treating meat, filed Oct. 14, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c2041, *The Albright-Nell Co.* v. *The Cincinnati Butchers' Supply Co.*

2,616,758, J. V. Meyers, Vehicle construction for hauling bulk material, filed Oct. 8, 1953, D. C., N. D. Calif. (San Francisco), Doc. 33103, *Brogdex Co.* v. *Gar Wood Industries, Inc.*

2,620,277, C. Scalera, Preserving peeled potatoes; 2,420,322, R. F. Matarazzo, same, filed Oct. 9, 1953, D. C. R. I. (Providence), Doc. 1617, *A. Longo et al.* v. *Saf-Way Packaging Co.*

2,623,269, H. Goldschmidt, Convertible material working machine, filed Oct. 8, 1953, D. C., N. D. Calif. (San Francisco), Doc. 33104, *Cummins-Chicago Corp.* v. *Magna Engineering Corp.*

2,641,990, 2,645,172, Allbright & Illsley, Automatic apparatus for injecting curing liquid into hog bellies, filed Oct. 14, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c2042, *The Allbright-Nell Co.* v. *The Cincinnati Butchers' Supply Co.*

2,645,172. (See 2,641,990.)

2,655,480, J. G. Spitzer et al., Lather producing composition, filed Oct. 13, 1953, D. C. Md. (Baltimore), Doc. 6924, *Carter Products, Inc., et al.* v. *Colgate-Palmolive-Peet Co. et al.*

Re. 23,416 (of 2,380,112), C. W. Kinnear, Drill, filed Oct. 12, 1953, D. C., S. D. Tex. (Houston), Doc. 7752, *Kinnear-Weed Corp.* v. *Hunt Tool Co.*

Des. 157,407, P. Pappas, Coffee-making apparatus, filed Oct. 12, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15909, *P. Pappas* v. *Star Metal Mfg. Co., Inc.*

Des. 169,174. (See Des. 169,185.)

Des. 169,185, Des. 170,208, Des. 170,214, A. Philippe, Brooch, Des. 170,369, Des. 169,174, same, Necklace; Des. 170,337, same, Earring; Des. 170,210, same, Link chain for a bracelet, filed Oct. 13, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c2034, *Trifari, Krussman & Fishel, Inc.* v. *Gainer & Gaines, Inc.*

Des. 170,208. (See Des. 169,185.)

Des. 170,210. (See Des. 169,185.)

Des. 170,214. (See Des. 169,185.)

Des. 170,337. (See Des. 169,185.)

Des. 170,369. (See Des. 169,185.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 246,868, Time, Inc., Weekly magazine, filed Oct. 15, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15947–WM, *Time, Inc.* v. *T. I. M. E., Inc.*

T. M. 334,168, St. George Textile Corp., Rayon and cotton piece goods, D. C., S. D. N. Y., Doc. 77/188, *St. George Textile Corp.* v. *Puritan Skirt & Dress Co.* Consent judgment for injunction (notice Sept. 21, 1953).

T. M. 401,021, Duotone Co., Inc., Phonograph needle; T. M. 430,583, T. M. 517,186, same, Phonograph records, recording heads, etc., filed Oct. 14, 1953, D. C., S. D. N. Y., Doc. 88/299, *Duotone Co., Inc.* v. *The Diatone Co.*

T. M. 430,583. (See T. M. 401,021.)

T. M. 506,467. (See T. M. 508,951.)

T. M. 508,951, T. M. 506,467, Trifari, Krussman & Fishel, Inc., Jewelry for personal wear, not including watches, filed Oct. 13, 1953, D. C. R. I. (Providence), Doc. 1619, *Trifari, Krussman & Fishel, Inc.* v. *Tiara, Inc.*

T. M. 512,896, T. M. 539,121, T. M. 545,305, The Cudahy Packing Co., Oleomargarine, D. C., E. D. Mich. (Detroit), Doc. 12111, *The Cudahy Packing Co.* v. *Shedd-Bartush Foods, Inc., et al.* Stipulation and order of dismissal without prejudice (notice Sept. 29, 1953).

T. M. 517,186. (See T. M. 401,021.)

T. M. 539,121. (See T. M. 512,896.)

T. M. 545,305. (See T. M. 512,896.)

T. M. 546,013. (See T. M. 562,158.)

T. M. 562,158, T. M. 546,013, Universal Fountain Pen & Pencil Co., Inc., filed Oct. 14, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c2040, *Universal Fountain Pen & Pencil Co., Inc.* v. *Marlowe Pen Co. et al.*

NOTICES

International Convention for the Protection of Industrial Property

Adherence of Greece to the London 1934 revision

The Secretary of State has been notified by the Legation of Switzerland of the adherence, effective November 27, 1953, of Greece to the International Convention for the Protection of Industrial Property as last revised at London on June 2, 1934.

ROBERT C. WATSON,
Commissioner of Patents.

Dec. 15, 1953.

Mounted Drawings

The Chief Draftsman has observed there has been a steady increase in the number of informal drawings filed in the form of mounted prints. A 20-day check of drawings received shows there were 679 mounted print drawings filed with applications. These were accepted for the purpose of examination in accordance with Rule 85 of the Rules of Practice.

In view of this unusually large number of mounted prints submitted in lieu of formal drawings, we are compelled to advise that formal drawings should be submitted in accordance with Rule 84 of the Rules of Practice and that Rule 85 be used only in rare and unusual circumstances to avoid serious loss of rights.

ROBERT C. WATSON,
Commissioner of Patents.

Dec. 14, 1953.

Erratum

All references to Patent No. 2,663,619 to William Platt, assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, for Method of Preparing Finely Divided Calcium Silicate appearing in the OFFICIAL GAZETTE of December 22, 1953, should be deleted as the application was withdrawn from issue and the patent was not issued.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,636,987. Aircraft Antenna. Patented Apr. 28, 1953. A radio antenna for reducing or eliminating radio frequency currents in curved surfaces, and for preventing or reducing secondary radiation from these surfaces. The electromagnetic field radiated from the antenna is substantially independent of the configuration of adjacent surfaces, and in particular may be adapted to produce an essentially single lobe field pattern. (Owner) Airborne Instruments Laboratory, Inc. Correspondence to J. J. Wood, Airborne Instruments Laboratory, Inc., 160 Old Country Road, Mineola, N. Y. Group 36—61. Reg. No. 52,289.

Pat. 2,646,884. Sediment Bulb for Carburetors. Patented July 28, 1953. Easy-to-clean sediment bulb for fuel supply lines of internal combustion engines has a head with fuel supply and outlet connections. A support bar positioned below the head is bolted to the opposite sides of the head. A transparent collector bowl is positioned below the head with its upper edge resting in an annular recess in the under surface of the head and with its lower end spaced from the support bar. A removable plug threaded in the support bar has a stem which extends upwardly through a sealing gasket and an opening in the lower end of the bowl. To remove sediment from the bowl it is necessary only to unscrew the plug. (Owner) John E. Findley, P. O. Box 531, Pueblo, Colo. Groups 35—19; 38—31. Reg. No. 52,290.

Pat. 2,476,257. Means for Illuminating Depressible Keys. Patented July 12, 1949. Visual signaling means for depressible keys such as those used in calculating machines are in the nature of light rays passing through certain portions of the keys to cause the keys to change color when depressed to indicate to the operator the position of the keys. Each key has an opaque portion below a light-rays-transmitting portion. A housing has a series of openings to slidably receive the keys. The housing contains an outer section of light-rays-transmitting material, an intermediate section of opaque material, and an innermost section of light-rays-transmitting material. A light-rays-transmitting insert, between a light source and the sections, projects light rays of one color through the outer section and light rays of another color through the inner section. Several modified forms of the invention are disclosed. This patent is available for non-exclusive licensing only. (Owner) J. M. Hoff, 7709 Essex Ave., Chicago 49, Ill. Group 35—71—79. Reg. No. 52,291.

Pat. 2,618,888. Toy Vehicular System. Patented Nov. 25, 1952. Permanent magnet toy vehicle, figure, or the like mounted on a resilient support, such as a leaf spring, is rapidly vibrated upon a base surface by means of an alternating current. One or more of the vehicles are moved across the base in a predetermined path by vibrating the magnet and guiding the vehicle by a strip of magnetic material placed beneath the base. A conductor connected to a source of alternating current extends beneath the base and causes the magnet to vibrate and travel across the surface. (Owner) J. M. Hoff, 7709 Essex Ave., Chicago 49, Ill. Group 39—41. Reg. No. 52,292.

Pat. 2,637,140. Toy Vehicular System. Patented May 5, 1953. Toy vehicular system in which one or more wheeled toys having a built-in permanent magnet are moved over a surface by means of magnetic material placed below the surface. Includes a concealed highway system having a number of curves and intersections defined by an endless tube of non-magnetic material above which toys move without visible driving means. A viscous liquid is forced through the tube by a pumping apparatus and carries with it magnetic pellets for propelling the toys by magnetic attraction and determines the path of the toys. (Owner) J. M. Hoff, 7709 Essex Ave., Chicago 49, Ill. Group 39—41. Reg. No. 52,293.

Pat. 2,645,357. Child's Garment Rack. Patented July 14, 1953. It is designed to encourage young children to hang up their own clothing on an easy-to-reach inexpensive rack. This rack is so constructed that when suspended from the regular height of a pipe bar or hook used by adults it can be reached by a child for hanging his clothing thereon. This garment rack is of simple construction and inexpensive to manufacture, has a minimum number of parts, and is adapted to conserve closet space. No tools, screws, nails, or metal brackets are required for installation. The rack is merely suspended over any regular clothes bar or hook in the clothes closet. (Owner) William F. Taylor, % L. S. Saulsbury, 55 West 42d St., New York 36, N. Y. Groups 25—99; 33—49; 40. Reg. No. 52,294.

Pat. 2,634,582. Hydraulic Drive. Patented Apr. 14, 1953. Hydraulic drive may be used for operating hoisting apparatus or for various other purposes. The drive, comprising a fluid pump and a fluid engine, is provided with a shut-off valve to automatically stop or brake the engine when a break or leakage occurs in one of the conduits. A spring-loaded safety ball valve is mounted in a passage extending through the shut-off valve to prevent excessive pressure when the shut-off valve is suddenly closed. The discharge port of the pump and the intake port of the engine are connected by a conduit, and the discharge port of the engine and the intake port of the pump are connected by a return conduit. The shut-off valve, which is normally biased to open position, is pivotally mounted in a recess in the return conduit at a point adjacent the engine discharge port. A fluid reservoir is connected by a conduit to the return conduit at a point between the shut-off valve and the pump intake port. An electromagnet for closing the shut-off valve is controlled by a float in the reservoir. When the fluid in the reservoir drops to a predetermined level because of a break or leakage in a conduit, the shut-off valve is actuated to close the return conduit. (Owner) Theodor Klatte. Correspondence to Michael S. Striker, 511 Fifth Ave., New York, N. Y. Group 35—61—69. Reg. No. 52,295.

Pat. 2,644,766. Composition for Reconditioning Used Typewriter Ribbons. Patented July 7, 1953. Solution for reconditioning faded typewriter or duplicating ribbons regardless of color or combination of colors may be compounded from readily available ingredients. By applying from 15 to 25 drops of the solution every few days to a ribbon and allowing it to soak in, the ribbon will not be allowed to dry out, and the life of the ribbon will be greatly prolonged. The solution may be applied with a brush or medicine dropper without removing the ribbon from the machine. For ingredients see patent. (Owner) Bessie S. Levine, P. O. Box 15, Boulevard Station, New York 59, N. Y. Group 28—89. Reg. No. 52,296.

Pat. 2,624,403. Window Protector. Patented Jan. 6, 1953. A curtain of flexible transparent thermoplastic material for protecting the outside of a window from storm may be lowered from inside the building. The top of the curtain is held in a conventional spring-urged roller on the outside of the window frame. A cord fastened in an ordinary stiffening rod at the bottom depends for anchoring the curtain during storm by tying in an eyelet screw on the outside lower edge of the lower sash. The vertical side edges of the curtain may be reinforced by strips of heavier material anchored at the top and slidably held in spaced loops mounted along the edges. At the start of a storm, the lower sash is raised from the inside, the cord and curtain pulled down, the cord tied in the anchoring eyelet, and the ends of the reinforcing strips passed around the bottom edge of the sash and tied in eyelets on the inside. When the sash is lowered, the protector curtain is also lowered and the reinforcing strips are securely held by the sash. (Owner) Gustave Zelenko, 17—10 166 St., Whitestone 57, N. Y. Groups 25—61—62; 39—81. Reg. No. 52,297.

Pat. 2,350,462. Portable Lamp. Patented June 6, 1944. Portable lamp may be used as an ordinary lamp or as an ultraviolet germicidal lamp. The difference resides in two selectively operated horizontal tubular light rings, one of visible light and the other of ultraviolet light, and in treatment of the conventional upwardly tapered shade. For maximum germicidal effect, the ultraviolet light tube employs mercury producing radiation of wave lengths 2537 angstroms. Heat from the tube and base transformer causes a continuous column of air to pass up through an annular convection-channel between the ultraviolet tube and shade, thus sterilizing the room air. To prevent eye injury from the ultraviolet rays, the tube has an undershield, and the shade has a coating, of acetate cellulose or other material not penetrable by ultraviolet rays but translucent over visible light. Designs put on the shade in fluorescent salts, which are illuminated only by ultraviolet light rays, produce polychromatic color effects. The owner suggests usefulness of the ultraviolet light lamp when viewing television, because of the soft light and the air-sterilizing quality. (Owner) Janet S. Johns, 63 Noble St., Lynbrook, Long Island, New York, N. Y. Groups 34—81; 36—99. Reg. No. 52,298.

Pat. 2,422,969. Decorative Products Comprising Glass Fibers. Patented June 24, 1947. Decorative wall or furniture panelings, picture frames, around window displays, letters for use in signs, and the like are made by placing spun glass fibers of various colors in close parallel relation on a backing having an adhesive layer, and spraying the whole with a protective transparent coating. The adhesive is formed by a solution, in a vaporizable solvent, e. g. acetone, of a water-resistant plastic substance such as cellulose acetate. This produces a transparent body on evaporation of the solvent, and a tacky surface during evaporation. After the glass fibers have been placed on the tacky surface in the desired effects, a coating of similar plastic is sprayed on in sufficient volume to form a skin over the glass fibers, penetrate between them, and consolidate with the backing substance. Many variations are possible, as with moldable material which may be shaped in different ways. (Owner) Janet S. Johns, 63 Noble St., Lynbrook, Long Island, New York, N. Y. Groups 28—83; 32—39; 39—93. Reg. No. 52,299.

The following nine patents are owned by Bogoia Strezoff. Inquiries concerning the patents should be addressed to: Williamson, Williamson, Schroeder & Adams, 950 Pillsbury Building, Minneapolis 2, Minn.

Pat. 2,108,622. Collapsible Coat Hanger. Patented Feb. 15, 1938. Foldable wire coat hanger has a pair of coat-supporting arms each bent into an elongated U-shape to provide a pair of side elements with a short connecting element extending between the lower ends. The upper free ends of the side elements have aligned eyes which are attached to the eye of a supporting hook, all of which are mounted on a pivot. A brace extending between the lower ends of the arms is comprised of two sections, the outer ends of which are pivotally connected to the arms. An elongated stop member is placed over the medial jointed portion of the brace. The sides of the stop member are apertured to receive the end portions of a pivot which connects the inner ends of the brace sections. Groups 33—49; 40. Reg. No. 52,300.

Pat. 2,149,152. Massaging Vibrator. Patented Feb. 28, 1939. Massage attachment for electric clippers, such as are used in barber shops, which can be easily applied or removed without adjusting or removing the clipper blades. The attachment is operated by the clipper motor and may be oscillated or reciprocated. Includes a body plate with upturned side portions and inwardly extending flanges to slip over the lower stationary clipper blade, and is held in position by a catch. An operating element has a pair of rearwardly extending arms to contact the ends of the upper movable clipper blade for movement therewith. The operating element has a threaded aperture to receive a bolt extending from a massage cup. Groups 33—51; 39—91. Reg. No. 52,301.

Pat. 2,192,054. Hair Clipper. Patented Feb. 27, 1940. Manually operated or power-driven hair clippers with removable cutting blades. Includes a blade-supporting element and a pair of blades slidably and detachably interconnected as a unit. The supporting element and one of the blades have a tongue and slot connection. A retaining element extends through aligned apertures in the tongue and slot to anchor the blade unit to the supporting element. Modifications given. Group 33—51. Reg. No. 52,302.

Pat. 2,257,353. Shear Grinding Mechanism. Patented Sept. 30, 1941. Hand-operated sharpener for shears or scissors in which the blade being sharpened is held in proper relation to a rotary sharpening wheel, so a regular and properly inclined face is produced at the cutting edge. The device can be clamped to the edge of a table or bench. A work clamp including an elongated jaw member lies across the working face of the sharpening wheel. The jaw member has a pair of resilient arms with their ends turned inwardly toward each other and resting in an aperture in a clamp support. The jaw member has cooperating thin jaw portions, the longitudinal edges of which are flared apart for the insertion of a shears blade. Group 32—91. Reg. No. 52,303.

Pat. 2,257,354. Clamp and Bracket Structure. Patented Sept. 30, 1941. Clamp and bracket structure for a hand-operated rotary grinding wheel for supporting cutting instruments, such as shears, hair clipper blades, and knives, at the proper angle for sharpening. The bracket carries a pivoted clamp-supporting arm tilted at an angle across a grindstone. A clamp for holding a shears blade may be removably secured to the arm to hold the blade at a definite angle with respect to the grindstone. A knife blade type of clamp can be substituted for the shears clamp, so a knife can be gripped in such a manner that the clamp can be oscillated to grind both sides of the blade. The arm may be easily attached to or detached from the bracket. Group 32—91. Reg. No. 52,304.

Pat. 2,264,101. Hair Thinning Clipper. Patented Nov. 25, 1941. Hair thinning attachment for hair clippers includes a pair of slidably interconnected blades. A stationary handle has a housing and a plate portion attached thereto. An operating arm is pivoted to the plate and to the lower clipper blade. The upper movable blade which is slidably supported on the lower blade has a pair of guide grooves to receive posts extending from the lower blade. The lower blade has a series of widely spaced teeth, and the upper blade has a series of arms parallel to the teeth, which carry small hair-engaging teeth. In use the clippers are inserted in the hair and the operating arm is pressed toward the handle to move the upper blade relative to the lower blade. The hair-engaging teeth will move across the spaces between the lower blade teeth, and the hair caught therein will be sheared off. Group 33—51. Reg. No. 52,305.

Pat. 2,311,582. Bracket for Grinding Wheels. Patented Feb. 16, 1943. Bracket for holding a hand-operated rotary grinder for sharpening knives, scissors, etc., and also supporting a work holder. The bracket has an abutment to engage the frame of the grinder. A threaded post on the bracket adjacent the abutment has a work-supporting sleeve threaded thereon which is engageable by a screw clamp on the grinder to clamp the grinder to the bracket and lock the sleeve against rotation on the post. The grinding tool can be quickly detached from the bracket and used independently. Groups 32—91; 33—59. Reg. No. 52,306.

Pat. 2,467,447. Hot-Water Bottle. Patented Apr. 19, 1949. Hot water bag has the usual filler spout at one end with tie strings extending laterally from the corners of the bag and from an end flap for securing the bag to various portions of the user's body. A threaded socket is provided in one side of the bag to removably receive an electrical heating element for keeping the water in the bag at a desired temperature. The heating element can be detached from the bag so that the bag may, if desired, be used as a conventional hot water bag without the heating element. Groups 30—51; 36—21. Reg. No. 52,307.

Pat. 2,548,076. Hot-Water Bottle Heating Element. Patented Apr. 10, 1951. Hot water bag having a combined closure and heating unit in the filler opening in one side of the bag is just as flexible as a bag with an ordinary closure. The combined closure and heating unit consists of a hollow externally threaded plug-like member containing an electrical heating element. When the combined unit is threaded into a threaded collar in the filler opening in sealing position, the bottom wall of the plug is substantially flush with the side wall of the bag in which the filler opening is formed. Tie strings may be attached to apertured end flaps of the bag and to the plug for securing the bag to various portions of a person's body. Modifications shown. Groups 30—51; 36—21. Reg. No. 52,308.

Pat. 2,644,864. Battery Switch. Patented July 7, 1953. Electric switch manually operable from the dashboard of an automobile, boat, or airplane to interrupt the battery circuit when the vehicle is parked or when a short or overload occurs. An easily installed box-like housing has a pair of projecting spaced terminals electrically connected respectively to the battery and to the motor. Within the housing one hook-shape contact is connected directly to one terminal, and another contact is connected by L-shape support members to the second terminal. Between the contacts is a body member mounted on a rotatable bar with a handle extending through the dashboard, by turning of which the body member is moved to break or to complete the circuit. An additional safety feature is provided by a fuse supported by the L-shape support members which connect one contact to its terminal. Also, the entire switch may be by-passed by an arm pivotally connected to one terminal for movement into and out of engagement with a finger projecting from the other terminal. (Owner) Walter H. Childs, Sr., 826½ Fourth St. North, St. Petersburg, Fla. Group 36—41—91. Reg. No. 52,309.

TRADE-MARKS

OFFICIAL GAZETTE, JANUARY 5, 1954

[VOL. 678. NO. 1]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 624,814. Myron A. Coler, doing business as Markite Company, New York, N. Y. Filed Feb. 12, 1952.

MARKITE

For Materials Made Wholly or in Part From Electrically Conductive Plastics and Sold in the Form of Sheets, Blocks, and Shaped Pieces Such as Bars and Discs.

Claims use since in or about May 1947.

Ser. No. 642,772. Rocket Coal Company, Barbourville, Ky. Filed Feb. 25, 1953.



The word "Coal" is disclaimed apart from the mark as shown in the drawing.

For Bituminous Coal.

Claims use since Jan. 1, 1952.

Ser. No. 648,667. The General Tire & Rubber Company, Akron, Ohio. Filed June 12, 1953.

KURE-BLEND

For Rubber Compounded With an Accelerator and Other Additives for Further Use in the Industrial Arts.

Claims use since Apr. 23, 1953.

CLASS 2

RECEPTACLES

Ser. No. 556,764. Alfred Bleyer & Co., Inc., Brooklyn, N. Y. Filed May 11, 1948. (Sec. 2f.)

ChinaLikE

For Paper Plates and Plastic Coated Paper Plates.

Claims use since Feb. 1, 1921.

Ser. No. 583,150. Edwin H. Eichler, Dundee, Ill. Filed Aug. 8, 1949.



The word "Meal" is disclaimed apart from the trademark as shown.

For General Food Service Trays of Plastic and Cardboard Materials.

Claims use since June 28, 1949.

Ser. No. 591,476. Gamble-Skogmo, Inc., Minneapolis, Minn. Filed Jan. 26, 1950.

ARTISAN

Applicant claims ownership of Registrations Nos. 372,934 and 374,198.

For Tool Boxes.

Claims use since September 1947.

Ser. No. 616,134. Schwartz Manufacturing Company, Two Rivers, Wis. Filed July 5, 1951.

Silverfile

For Storage Cases for Holding Silver Flatware.

Claims use since May 23, 1951.

Ser. No. 635,222. Fazit Gesellschaft für Transporttechnik m. b. H., Solingen-Ohligs, Germany. Filed Sept. 13, 1952.

COLLICO

Applicant claims ownership of German Registration No. 615,697, dated Oct. 1, 1948.

For Boxes, Cases, Barrels, Buckets, Shells, Baskets, Crates, Cans Made of Wood or Tin or Steel for Packing and Transporting Purposes.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 642,760. Mimi Bags, Inc., New York, N. Y. Filed Feb. 25, 1953



For Handbags.
Claims use since Dec. 1, 1952.

Ser. No. 646,044. The Associated Merchandising Corporation, New York, N. Y. Filed Apr. 28, 1953.

CORLISS

Applicant claims ownership of Registrations Nos. 507,475 and 516,461.
For Women's Handbags.
Claims use since August 1949.

Ser. No. 649,216. Accurate Leather & Novelty Co., Chicago, Ill. Filed June 23, 1953.

"400"

For Billfolds.
Claims use since June 12, 1953.

Ser. No. 649,217. Accurate Leather & Novelty Co., Chicago, Ill. Filed June 23, 1953.

Forever Yours

For Billfolds.
Claims use since June 12, 1953.

Ser. No. 649,229. Friedman Bros., Brooklyn, N. Y. Filed June 23, 1953.

Gatorline

For Pocket Wallets and Billfolds.
Claims use since Mar. 16, 1953.

Ser. No. 649,514. Kopf Mfg. Co., Inc., New York, N. Y. Filed June 29, 1953. (Sec. 2f.)

CHAFELESS

For Rubber Bell Boots for Horses.
Claims use since Jan. 2, 1926.

CLASS 5

ADHESIVES

Ser. No. 646,549. The Gummed Products Company, Troy, Ohio. Filed May 6, 1953.

TRO-BAND

Applicant disclaims the word "Band" apart from the mark as shown in the drawing.
For Reinforced Gummed Tape of High Tensile Strength Used as a Substitute for Steel Banding and Other Applications Where High Tensile Strength Is an Essential Characteristic.
Claims use since Feb. 16, 1953.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 604,224. The Pure Oil Company, Chicago, Ill. Filed Sept. 29, 1950. (Sec. 2f as to "Pure.")

Pure-sure

Applicant claims ownership of Registration No. 514,259.
For Hydraulic Brake Fluid, Lighter Fluid, Radiator Rust Preventive, Radiator Sealer (Powder), Radiator Stop Leak (Liquid), Insect Spray, and Anti-Freeze.
Claims use since on or about June 1946.

Ser. No. 607,102. True-Health Chemical Products Corporation, Bradford, Pa., now by change of name Bradford Chemical Company, Inc. Filed Nov. 29, 1950.

DENIUM

For Enzyme Inhibitor for Addition to Food and Drink for the Prevention of Dental Caries.
Claims use since Nov. 3, 1949.

Ser. No. 632,721. Florasynth Laboratories, Incorporated, New York, N. Y., Chicago, Ill., Dallas, Tex., Detroit, Mich., Los Angeles, Calif., Memphis, Tenn., New Orleans, La., San Bernardino and San Francisco, Calif., and St. Louis, Mo. Filed July 18, 1952.

ENTRAPPED

For Essential Oils and Essential Oils Used in the Manufacture of Foods and Chemicals and Cosmetics.
Claims use since Aug. 2, 1951.

Ser. No. 637,045. William A. Frangos, Inc., Jamaica, N. Y. Filed Oct. 23, 1952.

WAF

Metalife

The mark comprises a monogram with a border around the same, and the word "Metalife." The monogram comprises the letters "WAF" merged together.
For Coating Lacquers, Etching Formulas, and Develop Solutions, All for Lithographic and Printing Plates.
Claims use since about May 1, 1950.

Ser. No. 641,072. Modern Home Products Company, Chicago, Ill. Filed Jan. 21, 1953.

modern home

For Water-Repellent Spray Used on Clothing, Shoes, Sporting Goods, and Like Articles; a Cedar Spray for Use in Coating Clothes Closets, Wardrobes, Cheses of Drawers and the Like; a Deodorizing Spray for Use in Kitchens and Bathrooms; an Insect Spray With D. D. T. Base for Exterminating Flying and Crawling Insects; a Mothproofing Spray for Use on Garments.
Claims use since Oct. 7, 1952.

Ser. No. 646,694. Thompson-Hayward Chemical Company, Kansas City, Mo. Filed May 8, 1953.



For Herbicides, Insecticides, Fungicides, Rodenticides, Fumigants, and Disinfectants.
Claims use since Jan. 7, 1952.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 630,309. Bowers Lighter Company, Kalamazoo, Mich. Filed May 27, 1952.

SPORT • TORCH

The word "Torch" is disclaimed apart from the mark as shown.
For Pyrophoric Pocket Lighters.
Claims use since Sept. 10, 1935.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 650,572. Berben Corporation, New York, N. Y. Filed July 21, 1953.

BERETTA

For Pistols, Shotguns, and Parts Thereof.
Claims use since Mar. 14, 1952.

CLASS 10

FERTILIZERS

Ser. No. 651,075. Snow Cap Mushrooms, Inc., doing business as Kel-Ros Products, Woburn, Mass. Filed July 29, 1953.

MUS-GRO

For Compost.
Claims use since May 1, 1953.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 574,565. Bergen Point Iron Works, Bayonne, N. J. Filed Feb. 26, 1949.

MONOFER

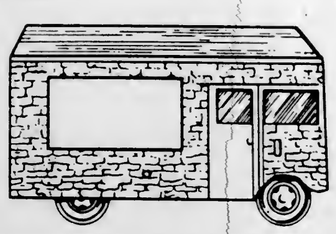
For Structural Units of Ferrous Metal and Fabricated Structural Units of Ferrous Metal—Namely, Fabricated Supporting Sub-Structural Members for Machines, Storage Tanks, and Other Metallic Containers; Fabricated Columns, Beams, Trusses, Girders; Fabricated Hull and Frame Structural Members for Boats and Marine Vessels; Fabricated Structural Members for Bridges, Buildings, Cable Reels, and Conveyor Frames.
Claims use since Jan. 6, 1949.

Ser. No. 610,327. Michigan Dock Company, Battle Creek, Mich., assignor to Michigan Dock and Manufacturing Company, Battle Creek, Mich., a corporation of Michigan. Filed Feb. 20, 1951.

EVER-EZE

For Docks; Dock Accessories Consisting of Ball Tops for Supports, Boat Stakes, Rail Stakes, Boat Well Frame, Braces, Boat Bumpers, Dock Fenders, Adjustable Leg for Deck Supports, Adjustable Shore Stakes, One Leg Support, Soft Bottom Plates, Support With Ring for Side Joining of Second Deck, and Safety Steps; and Parts Thereof.
Claims use since Aug. 29, 1950.

Ser. No. 634,608. Abe Darcy Ross, Havertown, Pa. Filed Aug. 28, 1952.



For Cementitious Material for Treating and Mending Walls.

Claims use since Aug. 18, 1949.

Ser. No. 637,663. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Nov. 5, 1952.

SCOTCHRAP

For Corrosion Resistant Plastic Sheet Material Useful, for Example, in Insulating Buried Pipes From the Corrosive Effects of Fluids, Soil Chemicals, Oils, and Fats, Stray Ground Currents, Soil Bacteria, Fungi, Etc.

Claims use since at least as early as Sept. 18, 1952.

Ser. No. 638,517. Bourne Manufacturing Company, Detroit, Mich. Filed Nov. 24, 1952.

CHEMCLAD

For Exterior and Interior Building Doors.

Claims use since Apr. 1, 1950.

Ser. No. 644,764. The Kelleher Company, Detroit, Mich. Filed Apr. 6, 1953.

Kelco

For Jalousies, Jalousie Windows and Doors and Parts Thereof and Therefor—Namely, Screens and Storms, Sash With Jalousies Installed, Brackets, Tilt Bars and Operating Devices, Said Parts Being Sold as a Part of the Complete Unit.

Claims use since Feb. 13, 1953.

Ser. No. 648,871. Edward J. Martel, doing business as Thermobond Company, Akron, Ohio. Filed June 16, 1953.

THERMOBOND

For Lap Siding, Shingles, Insulation Type Laminated Metal Foil for Application to Studding as a Base for Lap Siding, Metal Corners for Covering Corner Joints, Composition Board Starter Strips for Use in Getting First a Course of Siding Started, Caulking Compound, and Composition Moldings for Finishing Around Windows and Door Casings.

Claims use since on or about Sept. 1, 1951.

Ser. No. 648,946. Plastic Engineering, Inc., Cleveland, Ohio. Filed June 17, 1953.

RIVIERA

For Plastic Wall Tile.

Claims use since Feb. 19, 1953.

Ser. No. 649,066. Crossly Window Corp., Miami, Fla. Filed June 19, 1953.

SEALVENT

For Windows and Doors.

Claims use since May 15, 1953.

Ser. No. 649,442. Refractory Specialties Company, Philadelphia, Pa. Filed June 26, 1953.



The drawing is lined for the color red but no claim is made to color.

For Dry and Wet Air-Setting Refractory Mortars and Castable Refractory Materials.

Claims use since June 5, 1953.

Ser. No. 650,330. Standard Aluminum Window Corporation, also doing business as Standard Aluminum Window Corp., Minneapolis, Minn. Filed July 15, 1953.

KOMBO KING

For Combination Storm and Screen Windows.

Claims use since Feb. 16, 1953.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 619,984. Benner-Nawman, Inc., Oakland, Calif. Filed Oct. 15, 1951.

DEL-TRA

The term "Tra" is disclaimed apart from the trade-mark as shown.

For Metal Carrier Trays for Delivering Bread, Pie, Milk, and Ice Cream.

Claims use since June 1, 1949.

Ser. No. 635,078. Fred Zylstra, Opportunity, Wash. Filed Sept. 9, 1952.

Rena-ware

For Metal Hollow Ware (Stainless Steel Kitchenware Which Is Sold Only in Sets).

Claims use since Apr. 15, 1952.

Ser. No. 643,814. Joseph L. Bradfield, Indianapolis, Ind. Filed Mar. 18, 1953.

BRAD-RAY

For Header Saddle Fittings for Interconnecting Radiant Heating Lines.

Claims use since on or about July 1, 1949.

Ser. No. 649,521. Lapp Insulator Company, Inc., Leroy, N. Y. Filed June 29, 1953. (Sec. 2f.)

Lapp

For Pipes, Water Coils, Valves, and Fittings.

Claims use since May 10, 1939.

Ser. No. 649,748. Yarnall-Waring Company, Philadelphia, Pa. Filed July 2, 1953. (Sec. 2f.)

GUN-O-PAKT

For Piping Expansion Joints.

Claims use since Feb. 25, 1948.

Ser. No. 649,907. Scully Signal Company, Cambridge, Mass. Filed July 6, 1953.

UNIFIL

For Article of Manufacture Consisting of a Threaded Fitting Adapted To Be Attached to an End of a Fluid Delivery Pipe and a Mating Fitting for Attachment to a Fluid Dispensing Nozzle Whereby a Tight Connection Will Be Made.

Claims use since June 2, 1953.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 618,685. The Carpenter Steel Company, Reading, Pa. Filed Sept. 12, 1951. (Sec. 2f.)

Free-Cut INVAR "36"

The term "Invar" and the numeral "36" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 406,385.

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since Jan. 13, 1943.

Ser. No. 632,382. Loxit Systems, Inc., Chicago, Ill. Filed July 10, 1952.

Loxit

Applicant claims ownership of Registration No. 534,741.

For Metal Angle Stock; Flat Strips of Metal; Strips of Solid Extruded Metal With One Face Flat and the Other Rounded; Lengths of Metal Shaped by Rolling so as To Be at Least in Part, Curved in Cross Section To Serve as Rub Rails; Strips of Metal of Various Cross Sections for Capping.

Claims use since during the year 1937.

Ser. No. 636,163. Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Filed Oct. 4, 1952.



Applicant claims ownership of Registration No. 435,539.

For Electrical Alloy Steel in the Form of Strip Having an Integral Chemically Treated Surface.

Claims use since Aug. 25, 1952.

Ser. No. 640,004. Metallizing Engineering Co. Inc., Long Island City, N. Y. Filed Dec. 24, 1952.

SPRAMOLD

Applicant claims ownership of Registration No. 505,799.

For Metal Alloy Wires or Rods Predominantly Composed of Lead.

Claims use since Feb. 20, 1952.

Ser. No. 643,692. La Salle Steel Company, Hammond, Ind. Filed Mar. 16, 1953.

Super LA-LED

No claim is made to the word "Super" apart from the mark as a whole. Applicant claims ownership of Registration No. 364,583.

For Steel Alloys Sold in the Form of Bars, Rods, and the Like.

Claims use since March 1952.

Ser. No. 644,421. La Salle Steel Company, Hammond, Ind. Filed Mar. 30, 1953.

LA-LED

No claim is made to the word "Led" apart from the mark as a whole. Applicant claims ownership of Registration No. 364,583.

For Lead Containing Steel Alloys Sold in the Form of Bars, Rods, and the Like.

Claims use since September 1938.

Ser. No. 650,433. Fairmont Aluminum Company, Fairmont, W. Va. Filed July 17, 1953.



Applicant claims ownership of Registration No. 283,419.

For Aluminum Sheets, Coils, and Circles.

Claims use since Aug. 11, 1930.

Ser. No. 650,495. Eutectic Welding Alloys Corporation, Flushing, N. Y. Filed July 20, 1953.

FINISHTRODE

For Steel Welding Electrode.

Claims use since July 8, 1953.

Ser. No. 650,968. Bauer Alphabets, Inc., New York, N. Y. Filed July 28, 1953.

Venus

For Printing Type.

Claims use since July 16, 1953.

CLASS 15
OILS AND GREASES

Ser. No. 625,818. The Pure Oil Company, Chicago, Ill. Filed Mar. 1, 1952. (Sec. 2f.)

PURE

Applicant claims ownership of Registrations Nos. 296,931, 514,028, and 525,058.

For Light Oils—Namely, Motor Fuel Oils, Solvent Oils, Kerosine, Diesel Fuel Oil, and Furnace Oils; Lubricating Oils—Namely, Cylinder Oils, Engine and Machine Oils, Diesel and Turbine Oils and Automotive Oils; Miscellaneous Industrial Oils—Namely, Residual Fuel Oils, Cutting Oils, Quenching Oils, Slushing Oils, Lubricating Oil Fractions for Process Applications, Metal Drawing Oils, Lubricating Oils for Pneumatic Tools, Brick Mold Oils, Lubricating Oils for Air and Gas Compressors, and White Oils; and Greases—Namely, Automotive Greases, Automotive Gear Lubricants, Industrial Gear Lubricants, and Greases for Industrial Machinery.

Claims use since on or about April 1930.

CLASS 16
PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 600,050. Henderson and Johnson, Inc., Gloucester, Mass. Filed June 30, 1950. (Sec. 2f as to "Gloucester.")

GLOUCESTER

"COPPERCLAD"

The word "Copperclad" is disclaimed apart from the mark as shown in the drawing.

For Antifouling Paints.

Claims use since Jan. 25, 1950.

Ser. No. 623,988. Seck-DeVault Paint Mfg. Corp., Springfield, Ill. Filed Jan. 23, 1952.

Decratone

For Ready Mixed Paint.

Claims use since Feb. 28, 1946.

Ser. No. 632,993. The Nelson Company, Iron Mountain, Mich. Filed July 24, 1952.



For Solvents for Use in Protective and Decorative Coatings, Paint, Varnish, Lacquer and Enamel.

Claims use since March 1948.

Ser. No. 636,480. Olaus T. Hodnefield, doing business as De-Oxo-Lin Chemical Products, Los Angeles, Calif. Filed Oct. 10, 1952.

SEAL-OXO-LIN

Applicant disclaims "Seal" apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 417,132.

For Chemical Coating Preparation Having Fireproofing and Fire Retarding Properties, Adapted for Application to Inflammable Materials—Namely, Lumber, Power Poles, Construction Timber, Railroad Ties, Fencing Lumber, Trestles, and Wooden Structures.

Claims use since Aug. 23, 1952.

Ser. No. 637,205. Nuodex Products Co., Inc., Elizabeth, N. J. Filed Oct. 27, 1952.

ODOREX

For Driers for Ready Mixed Paints, Enamels, Varnishes, and Coatings for Oil Cloth, Linoleums, and Coated Fabrics, the Identical Driers Being Applicable for Use for All of Said End Products.

Claims use since Aug. 8, 1952.

Ser. No. 639,321. Enthone, Inc., New Haven, Conn. Filed Dec. 11, 1952.

ENTHONITE

For Organic Coating Materials for Application to Metals To Protect the Metals Against Corrosion in Aqueous Solutions.

Claims use since May 7, 1947.

Ser. No. 640,115. Ferro Chemical Corporation, Bedford, Ohio. Filed Dec. 29, 1952.

"Blandor"

For Paint and Varnish Driers.

Claims use since Oct. 20, 1952.

Ser. No. 645,579. The Master Builders Company, Cleveland, Ohio. Filed Apr. 20, 1953.

KONDUCTOWAX

For Prepared Wax for Protecting and Preserving Concrete Floors.

Claims use since Jan. 6, 1953.

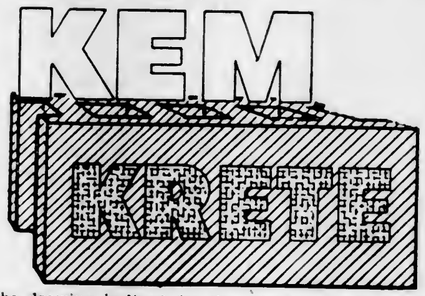
Ser. No. 645,921. St. Louis Paint Manufacturing Company, St. Louis, Mo. Filed Apr. 24, 1953.

VICTORY

For Flat Oil Paint Scientifically Formulated for Painting Over Calcimine, Casein, Wallpaper, Wall Board, and Raw Plaster Surfaces; a Transparent Liquid Coating for Use in Connection With Oil Base Paint for Covering Any Firm Surface; Pigmented Wall Sealer.

Claims use since June 12, 1942.

Ser. No. 650,650. The Sherwin-Williams Company, Cleveland, Ohio. Filed July 22, 1953.



The drawing is lined for the colors brown and yellow but color is not claimed as a feature of the mark. Applicant claims ownership of Registrations Nos. 257,775, 559,004, and others.

For Enamel Type Coating To Be Applied to Concrete Blocks, Building Tile, Concrete Surfaces, Wallboard, Etc.

Claims use since May 15, 1953.

CLASS 19
VEHICLES

Ser. No. 626,731. Del-Krome Corp., Walton, N. Y. Filed Mar. 20, 1952.

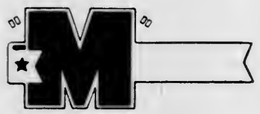
UNI-SHIELDS

Applicant disclaims the mark "Shields" apart from the mark as shown.

For Automobile Window Ventilators.

Claims use since Jan. 15, 1952.

Ser. No. 643,694. "M" System, Inc., Vicksburg, Miss. Filed Mar. 16, 1953.



For House Trailers.

Claims use since May 25, 1951.

Ser. No. 645,873. Dennis-Mitchell Industries, Philadelphia, Pa. Filed Apr. 24, 1953.

"BABY TRAVELER"

No claim is made to the word "Baby" except in association shown. Applicant claims ownership of Registration No. 516,022.

For Automobile Baby Seats and Hammocks Used To Carry Infants in Automobiles.

Claims use since November 1948.

Ser. No. 650,903. Laher Spring and Tire Corporation, Oakland, Calif. Filed July 27, 1953.

MUSTANG

For Automobile Springs.

Claims use since June 1, 1953.

Ser. No. 651,238. Glacier-Ice Corporation, Los Angeles and Santa Monica, Calif. Filed Aug. 3, 1953.

GLACIER-ICE

For Coolers for Lowering the Temperature of Air Within the Passenger Compartments of Automobiles.

Claims use since Mar. 21, 1953.

Ser. No. 654,110. Edo Corporation, College Point, N. Y. Filed Oct. 2, 1953.



Applicant claims ownership of Registrations Nos. 226,219 and 427,179.

For Seaplane Floats.

Claims use since Apr. 12, 1946.

Ser. No. 654,424. Rayco Mfg. Co., Paterson, N. J. Filed Oct. 8, 1953.

ORITEX

For Convertible Automobile Tops.
Claims use since June 1, 1953.

CLASS 20
LINOLEUM AND OILED CLOTH

Ser. No. 648,074. Armstrong Cork Company, Lancaster, Pa. Filed June 2, 1953.

Spatter

For Linoleum.
Claims use since Jan. 24, 1949

CLASS 21
ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 603,314. Solsound Industries, Inc., doing business as Electronic Engineering Co., Akron, Ohio. Filed Sept. 8, 1950.

U-ASK-IT

For Local, Voice-Intercommunication System, Comprising Electronic Units—Namely, Microphones, Loudspeakers, Combined Microphones and Loudspeakers, and Control Units.
Claims use since Aug. 4, 1948.

Ser. No. 607,157. Burndy Engineering Company, Inc., New York, N. Y. Filed Dec. 1, 1950.

HYSPARK

Applicant claims ownership of Registration No. 394,539.
For Electrical Spark Plug Connectors.
Claims use since Oct. 25, 1950.

Ser. No. 632,843. F. A. Luthy Co., Jackson, Mich. Filed July 21, 1952. (Sec. 2f.)

aero

For Spark Plugs for Internal Combustion Engines.
Claims use since on or about Mar. 1, 1933.

Ser. No. 635,723. The Simplex Company, Springfield, Ill. Filed Sept. 24, 1952.

Simplex

For Automatic Voltage Regulators for Alternating Current Generators.
Claims use since Jan. 11, 1940.

Ser. No. 649,184. Rauland-Borg Corporation, Chicago, Ill. Filed June 22, 1953.

LIBRETTO

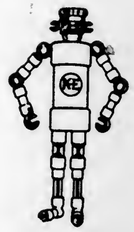
For Remote Control Pre-Amplifiers for Use With Audio (Sound) Output Associated With Phonographs, Radio, and Television Receivers and the Like.
Claims use since May 15, 1953.

Ser. No. 649,308. Jet Sales Company, Seattle, Wash. Filed June 24, 1953.

JETCO

For Radio Receiving Sets.
Claims use since May 7, 1947.

Ser. No. 649,426. Kirkman Engineering Corporation, New York, N. Y. Filed June 26, 1953.



Kay E. Kusit

For Fuses.
Claims use since Jan. 29, 1931.

Ser. No. 649,567. Briscoe Manufacturing Company, Columbus, Ohio. Filed June 30, 1953.

BRISKEAT

For Electrically Heated Flexible Tape and Jacket-Type Heaters Used in Heating Laboratory Vessels and Receptacles.
Claims use since June 1, 1953.

CLASS 22
GAMES, TOYS, AND SPORTING GOODS

Ser. No. 602,954. Myron A. C. Johnson, Coral Gables, Fla. Filed Aug. 30, 1950.

SAUCIE

For Spinning Toys in the Form of Whirling, Flying Discs.
Claims use since Aug. 3, 1950.

Ser. No. 624,458. Wright & McGill Co., Denver, Colo. Filed Feb. 2, 1952.

"Toughy"

For Fishing Rods.
Claims use since Sept. 12, 1950.

Ser. No. 627,607. Stephan J. Stagno, Chicago, Ill. Filed Apr. 4, 1952.

COMBAT

For Game Boards Used in Association With Movable Toy Soldiers, Airplanes, and Ordnance Equipment.
Claims use since Mar. 24, 1952.

Ser. No. 628,358. Arthur W. Kelly, New York, N. Y. Filed Apr. 19, 1952.

TEXAS SANDY

The name presented is that of "Texas Sandy" whose consent is of record. Applicant claims ownership of Registration No. 576,328.
For Toy Imitation Leather Holsters, Toy Imitation Leather Cuffs, Toy Guns and Spurs, Toy Savings Banks, Baseballs, Baseball Gloves, Baseball Masks, Baseball Bats; Toy Archery Sets Consisting of Bows, Arrows, and Targets; Tennis Racquets, Boxing Gloves, Footballs and Basket Balls, Football Helmets and Football Pads, Handballs, Punching Bags, Indian Clubs, Roller Skates, Hockey Sticks, Polo Mallets, and Polo Belts.
Claims use since Feb. 5, 1951.

Ser. No. 639,805. The Cat Cay Realty Company, Limited, Nassau, Island of New Providence, Bahama Islands. Filed Dec. 20, 1952.



For Toy Stuffed Representation of Animals and Dolls; Fishing Devices—Namely, Fish Spoons, Reels, Artificial Fishing Lures, Fishing Poles, Sinkers; Playing Cards and Golf Clubs.
Claims use since March 1936; and since March 1936 in commerce between foreign countries and the United States.

Ser. No. 640,843. Childhood Interests, Inc., Roselle Park, N. J. Filed Jan. 16, 1953.

PONY TRAIN

The word "Train" is disclaimed apart from the mark as shown.
For Toy Trains of the Rolling Type.
Claims use since Apr. 2, 1947.

Ser. No. 640,846. Childhood Interests, Inc., Roselle Park, N. J. Filed Jan. 16, 1953.

THE COLOR XYLO

The word "Color" is disclaimed apart from the mark as shown.
For Toy Xylophones.
Claims use since Oct. 23, 1947.

Ser. No. 645,184. Play-Rite Products Co., Philadelphia, Pa. Filed Apr. 13, 1953.



PLAY-RITE

For Outdoor Gym Sets, Ladders for Outdoor Gym Sets, and Baby Seats for Outdoor Gym Sets.
Claims use since May 6, 1952.

Ser. No. 645,280. American Merri Lei Corporation, Brooklyn, N. Y. Filed Apr. 15, 1953.

SMART SET

For Novelty Party Favors To Be Worn on the Head and Made of Paper in Lustrous Metallic Finish.
Claims use since Apr. 1, 1950.

Ser. No. 645,368. American Character Doll Co., New York, N. Y. Filed Apr. 16, 1953.

SWEET SUZANNE

For Dolls.
Claims use since Mar. 9, 1953.

Ser. No. 645,669. Regent Sports Company, New York, N. Y. Filed Apr. 21, 1953.

PERMA-LAST

For Shuttlecock.
Claims use since Jan. 21, 1953.

Ser. No. 646,716. Airex Corporation, New York, N. Y. Filed May 11, 1953.

Spinster

For Fishing and Spinning Reels, Fishing and Spinning Rods, Fishing Plugs, Spinners, Artificial Lures and Bait for Fish Constructed Basically of Metal and Plastic Colored and Trimmed and Combinations of Metals and Plastics Colored and Trimmed Containing no Chemical Preparations Designed To Attract Fish by Odor Rather Than Sight.
Claims use since Feb. 3, 1948.

Ser. No. 647,125. Aurora Plastics Corporation, Brooklyn, N. Y. Filed Apr. 2, 1953.

AQUAMATIC

For Toy Water Pistol Models Made of Plastic, Wood, or Metal.
Claims use since Feb. 1, 1953.

Ser. No. 649,931. Dream Land Doll Inc., New York, N. Y. Filed July 7, 1953.

A DREAMLAND CREATION

No claim is made to the word "Creation" apart from the mark shown on the drawing.

For Dolls, Rattles, Toy Boxing-Gloves, and Toy Booties.

Claims use since Jan. 5, 1953.

Ser. No. 654,343. Ohio-Kentucky Manufacturing Co., Ada, Ohio. Filed Oct. 7, 1953. (Sec. 2f.)

Sonnett

Applicant claims ownership of Registration No. 536,989.

For Footballs, Basketballs, Volley Balls, Soccer Balls, Boxing Gloves, Striking Bags, and Baseball Gloves and Mitts.

Claims use since August 1948.

Ser. No. 654,344. Ohio-Kentucky Manufacturing Co., Ada, Ohio. Filed Oct. 7, 1953.

RAW HIDE FLY TRAP

The words "Raw Hide" are disclaimed apart from the mark as shown.

For Baseball Gloves.

Claims use since Aug. 15, 1953.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 549,985. Sturmey-Archer Gears Limited, Nottingham, England. Filed Feb. 17, 1948. (Sec. 2f.)

STURMEY ENGLAND ARCHER

For Variable Speed Gears for Land Vehicles Such as Bicycles and Manually Operated Lever Control Ratchet Mechanism for Shifting Such Gears To Change the Gear Ratios and Control the Speed of the Vehicle.

Claims use since 1942; and use in commerce between foreign nations and the United States since 1942.

Ser. No. 559,213. Consolidated Stamp Manufacturing Co., Inc., Spring Valley, N. Y. Filed June 15, 1948.

COSCO

For Rubber Stamps, Line Daters, and Numberers, Special Band Stamps, and Rubber Type Sets.

Claims use since Mar. 20, 1947.

Ser. No. 577,894. Joseph P. Marx, doing business as International Stamping Company, Hartford, Wis., assignor to International Parts Corporation, Chicago, Ill., a corporation of Illinois. Filed Apr. 28, 1949.

TRUE TONE

The word "Tone" is disclaimed apart from the mark as shown.

For Mufflers.

Claims use since Apr. 14, 1949.

Ser. No. 604,897. The Robert Becht Co., Cincinnati, Ohio. Filed Oct. 14, 1950.

QUIK·CHEK

For Conveyor Belts and Frames Supporting the Same for Use in Conveying Parcels at a Pay Station in a Self-Service Market or the Like.

Claims use since Oct. 12, 1950.

Ser. No. 622,051. Phoenix Nahmaschinen A. G., Baer & Rempel, Bielefeld, Germany. Filed July 17, 1951.

PHOENIX

The representation of the goods is disclaimed apart from the mark as shown. Applicant claims ownership of German Registration No. P1267/23, dated Dec. 18, 1950; and United States Registration No. 97,750.

For Sewing Machines and Sewing Machine Parts.

Ser. No. 624,509. Union Steam Pump Company, Battle Creek, Mich. Filed Feb. 4, 1952.

UNI-LOK

For Centrifugal Pumps.

Claims use since July 6, 1951.

Ser. No. 624,717. Fichtel & Sachs Aktiengesellschaft, Schweinfurt am Main (West), Germany. Filed Aug. 8, 1951.

F&S.

Applicant claims ownership of German Registration No. 53,709, dated Dec. 24, 1901; and United States Registrations Nos. 74,185, 77,886, and 79,372 (expired).

For Machinery Gears; Sprocket Wheels; Chains for Transmission of Power; Pedal Crank Bearings; Transmissions and Power Transmission Gears, and Parts Thereof; Ball Bearings; Hand Tools for Mounting Ball Bearings on Shafts, and Tools for the Mounting of Hubs, Motors, Clutches, and Shock-Absorbers—Namely, Wrenches, Pullers, and Assembling Tools; Roller Bearings; Internal Combustion Motors and Engines; Combustion Turbines; Grinding Mills; Plows; Grass Mowers; Harvesting and Binding Machines; Mechanical Elevators; Hand Sprayers for Conveying Liquids To Exterminate Noxious Animals and Plant Diseases; Fire Engines; Winches; Saws; Stone Grinders; Clutches; and Parts of the Foregoing Goods.

Ser. No. 627,703. The Roberts Co., Los Angeles, Calif. Filed Apr. 7, 1952.

FLEXI-TRIM

The word "Trim" is disclaimed apart from the mark as shown.

For Carpet Knives for Cutting and Trimming Carpet and Carpet Pad.

Claims use since June 27, 1950.

Ser. No. 631,101. Graver Tank & Mfg. Co., Inc., East Chicago, Ind. Filed June 12, 1952. (Sec. 2f.)

GRAVER

Applicant claims ownership of Registration No. 535,962.

For Liquid Clarifiers, That Is, Apparatus Wherein Sugar Juice or Other Liquids Are Clarified by Sedimentation of Solid Impurities With Mechanical Removal of Settled and Collected Solids in Form of a Mud or Sludge.

Claims use since on or about Oct. 30, 1938.

Ser. No. 631,872. Johnstone Engineering & Machine Co., Parkesburg, Pa. Filed June 27, 1952.

FREELY SEPARABLE

No claim is made to the words "Freely" and "Separable" apart from the mark as shown.

For Machines for Slitting and Roll-Winding Materials Made in a Flexible Web Such as Paper, Fabrics, Typewriter Ribbons, Rubber Materials, Sandpaper, and Other Items Which Are Manufactured With a Wide Width and Then Must Be Slit Into Smaller Sizes and Roll-Wound.

Claims use since Oct. 1, 1951.

Ser. No. 632,500. Bay-Lang Company, Sioux Falls, S. Dak. Filed July 14, 1952.

BAY-LANG

For Power Operated Hand Lift Trucks.

Claims use since Mar. 4, 1952.

Ser. No. 633,486. C & D Manufacturing Company, Perkins, Calif. Filed Aug. 5, 1952.

Sierra Loader

The word "Loader" is disclaimed apart from the mark as shown.

For Machine for Digging, Elevating, and Loading Earth.

Claims use since June 17, 1952.

Ser. No. 635,763. Samuel L. Gerson, Wilmington, Del. Filed Sept. 25, 1952.

GRAYBLADE

For Cutlery—Namely, Knives.

Claims use since Sept. 19, 1952.

Ser. No. 638,647. Haslett Chute and Conveyor Company, Oaks, Pa. Filed Nov. 26, 1952.

GEE VEE LINE

Applicant disclaims "Line" apart from the mark as shown.

For Material Handling Skate Wheel Conveyors.

Claims use since June 1, 1948.

Ser. No. 639,279. Lennartz & Co., Bulach, Zurich, Switzerland. Filed Dec. 10, 1952.

ALBA-RECORD

No claim is made to the word "Alba" apart from the mark as used. Applicant claims ownership of Swiss Registration No. 141,786, dated Apr. 2, 1952.

For Sectionalized Circular Saws.

Ser. No. 639,333. Kirk Manufacturing Co., doing business under the name Bill Kirk Mfg. Co. of Amarillo, Amarillo, Tex. Filed Dec. 11, 1952.

OLD SCRATCH

Applicant claims ownership of Registrations Nos. 568,049 and 573,119.

For Automatic, Stationary, Mechanical Livestock Oiler and Insecticide Applicator, Operated by Stock Upon Bodily Rubbing or Scratching Against Operative Parts of the Same.

Claims use since on or about Feb. 25, 1950; and since during August 1950 as to the mark herein presented.

Ser. No. 640,148. The Cincinnati Tool Company, Norwood, Ohio. Filed Dec. 30, 1952.

JUNIOR

For C Clamps.

Claims use since 1925.

Ser. No. 640,452. The Gillette Company, Boston, Mass. Filed Jan. 7, 1953.

SHARPIE

For Safety Razor Blades.

Claims use since Dec. 23, 1952.

Ser. No. 641,127. Container Corporation of America, Chicago, Ill. Filed Jan. 22, 1953.

CONCORA

For Machine for Gluing Partially Folded Paperboard Container Blanks so as To Form Tubular Containers in Collapsed Condition.
Claims use since on or about Sept. 18, 1950.

Ser. No. 645,310. The Frank G. Hough Co., Libertyville, Ill. Filed Apr. 15, 1953. (Sec. 2f.)

HOUGH

For Industrial Tractors and Power Operated Material Handling Appliances—Namely, Tractor Loaders and Shovels, and Parts Thereof.
Claims use since on or about Jan. 17, 1948.

Ser. No. 645,311. The Frank G. Hough Co., Libertyville, Ill. Filed Apr. 15, 1953.



The drawing is lined to indicate the color red, but no claim to color is made. The black circular background is disclaimed apart from the mark as shown.
For Industrial Tractors and Power Operated Material Handling Appliances—Namely, Tractor Loaders and Shovels, and Attachments and Parts Thereof.
Claims use since on or about Jan. 17, 1948.

Ser. No. 646,368. The Dayton Pump & Manufacturing Company, Dayton, Ohio. Filed May 4, 1953.

Rapidayton

Applicant claims ownership of Registration No. 158,422.
For Water Pumps and Water Pump Systems for Deep and Shallow Wells and Sump Pumps.
Claims use since 1915.

Ser. No. 648,427. The Pootatuck Corporation, Stratford, Conn. Filed June 8, 1953.

MITER MASTER

The word "Miter" is disclaimed apart from the mark shown in the drawing but applicant waives none of its common law rights in said mark or any part thereof. Applicant claims ownership of Registration No. 441,770.
For Cutter for Cutting Miters in Wood.
Claims use since on or about May 2, 1932.

Ser. No. 648,968. Spir-It, Inc., Malden, Mass. Filed June 17, 1953.

SPIR-IT

For Stirrers, Muddlers, Spoons, Bodkins, Picks, Spatulas, and Spreaders.
Claims use since Feb. 15, 1934.

Ser. No. 649,062. Romulo A. Brea, doing business as Brea Products Co., New York, N. Y. Filed June 19, 1953.

CUTSANA

For Razor Blades.
Claims use since May 15, 1953.

Ser. No. 649,172. Morse Sewing Machine and Supply Corp., New York, N. Y. Filed June 22, 1953.

Futur-a-matic

For Sewing Machines.
Claims use since Dec. 22, 1952.

Ser. No. 649,173. Morse Sewing Machine and Supply Corp., New York, N. Y. Filed June 22, 1953.

Jewel-o-matic

For Sewing Machines.
Claims use since Jan. 20, 1953.

Ser. No. 649,302. Great Neck Saw Manufacturers, Inc., Mineola, N. Y. Filed June 24, 1953.

REGAL

For Screw Drivers.
Claims use since Apr. 27, 1953.

Ser. No. 649,751. Kidder Press Company, Inc., Dover, N. H. Filed June 22, 1953.

FLEXOPRINTER

For Printing Presses.
Claims use since Mar. 13, 1953.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 634,408. Gustin-Kramer Company, Boston, Mass. Filed Aug. 25, 1952.

Vapor-Foam

For Pads for Dry Cleaning Presses, Pressing Machines, Ironing Boards for Domestic Use.
Claims use since Feb. 1, 1952.

CLASS 25

LOCKS AND SAFES

Ser. No. 637,070. The Mosler Safe Company, New York, N. Y. and Hamilton, Ohio. Filed Oct. 23, 1952.

CASH-O-MATIC

For Safes and Safety Cabinets.
Claims use since Jan. 15, 1952.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 595,477. Syntron Company, Homer City, Pa. Filed Apr. 8, 1950.

SYNTRON

Applicant claims ownership of Registrations Nos. 171,055, 415,309, and others.
For Batch Weighing Machines, Test Sieve Shakers, Volumetric and Gravimetric Feeders for Granular Materials.
Claims use since during the year 1935.

Ser. No. 613,008. J. L. J. Valette et Cie., Paris, France. Filed Apr. 23, 1951.



Applicant claims ownership of United States Registration No. 278,004; and French Registration No. 262,982, dated June 27, 1929.
For Prism Binoculars; Opera, Field, and Marine Glasses; and Reading Glasses.

Ser. No. 620,344. The Kalart Company Inc., Plainville, Conn. Filed Oct. 23, 1951.

Focuscope

For Eyetubes Containing a Magnifying Lens To Be Attached to the Eyepiece of a Photographic Range Finder for the Purpose of Image Magnification.
Claims use since Aug. 24, 1951.

Ser. No. 629,431. Gilfillan Bros. Incorporated, Los Angeles, Calif. Filed May 9, 1952. (Sec. 2f.)

Gilfillan

Applicant claims ownership of Registration No. 506,824.
For Electronic Apparatus for Ground Control Approach Systems for Landing Aircraft, Electronic Apparatus for Precision Search for Airplanes, and Electronic Apparatus for Tracking Airplanes on the Ground To Direct the Pilot During Overcast Weather, and Electronic Mechanical Devices for Computing Distance.
Claims use since Mar. 15, 1944.

Ser. No. 629,591. United States Safety Service Co., Kansas City, Mo. Filed May 12, 1952. (Sec. 2f.)

SAF-I-SPEC

Applicant claims ownership of Registration No. 557,604.
For Non-Vision Corrective Face Shields and Goggles Having Interchangeable Shields and Frames Sold as a Unit.
Claims use since October 1946.

Ser. No. 632,338. Wallace & Tiernan Co. Inc., Belleville, N. J., now by merger and change of name Wallace & Tiernan Company, Inc., a corporation of New Jersey. Filed July 9, 1952.

MASSOMETER

For Apparatus in the Nature of a Device for Measuring the Force Required to Accelerate a Fluent Material to a Predetermined Speed, and Thereby Measuring the Gravimetric Rate of Flow of the Fluent Material.
Claims use since Apr. 7, 1952.

Ser. No. 633,473. Carl C. Wilm, trading as The Magnex-Denver Co., Denver, Colo. Filed Aug. 4, 1952.

ECONOLITE

The term "Lite" is disclaimed apart from the trademark as shown.
For Measuring Devices for Motor Vehicles, Comprising a Vacuum Switch, Indicator Lamp Assembly, and Wiring System in Connection With the Intake Manifold and Ignition Switch of a Motor Vehicle, for Indicating Excessive Fuel Consumption Due to Over-Acceleration.
Claims use since June 16, 1952.

Ser. No. 637,143. Optische Werke C. A. Steinheil Sohne G. m. b. H., Munich, Germany. Filed Oct. 24, 1952.

Quinar

Applicant claims ownership of German Registration No. 329,415, dated Feb. 26, 1925.
For Photographic Objectives.

Ser. No. 638,888. Aktiebolaget Atvidaberg-Facit, Stockholm, Sweden. Filed Dec. 3, 1952.

FACIT

Applicant claims ownership of Registrations Nos. 319,442 and 403,455.
For Calculating Machines, Adding Machines, and Multiplying Machines, and Parts Thereof.
Claims use since June 1943; and since January 1946 in commerce between foreign nations and the United States.

Ser. No. 641,340. Shuron Optical Company, Inc., Geneva, N. Y. Filed Jan. 26, 1953.

RONBELLE

For Ophthalmic Mountings and Parts Thereof—Namely, Spectacle Frames.
Claims use since on or about July 22, 1936.

Ser. No. 641,341. Shuron Optical Company, Inc., Geneva, N. Y. Filed Jan. 26, 1953.

Ronmode

For Ophthalmic Mountings and Parts Thereof—Namely, Spectacle Frames.
Claims use since on or about Aug. 16, 1951.

Ser. No. 641,342. Shuron Optical Company, Inc., Geneva, N. Y. Filed Jan. 26, 1953.

RONSIR

For Ophthalmic Mountings and Parts Thereof—Namely, Spectacle Frames.
Claims use since on or about Oct. 10, 1940.

Ser. No. 646,333. Telecast Films Inc., New York, N. Y. Filed May 1, 1953.

THE MIRROR OF THE WORLD

For Series of Motion Picture Film Photoplays.
Claims use since Apr. 21, 1953.

Ser. No. 648,616. Monroe Calculating Machine Company, Orange, N. J. Filed June 11, 1953.

MONROBOT

For Calculating Machines.
Claims use since on or about May 2, 1952.

Ser. No. 648,660. General Electric Company, Schenectady, N. Y. Filed June 12, 1953.

Mascot

For Exposure Meters.
Claims use since April 1951.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 649,146. Nathan Goodman, New York, N. Y. Filed June 22, 1953.

FRAINIER

For Watches, Clocks, and Parts Thereof; Watchcases, Watch and Clock Dials.
Claims use since June 3, 1953.

Ser. No. 649,568. Bulova Watch Company, Inc., New York, N. Y. Filed June 30, 1953.

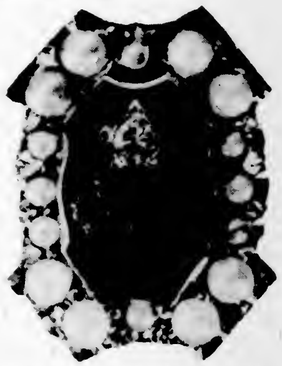
Lucy

For Watches—Namely, Wrist or Strap Watches.
Claims use since Jan. 14, 1952.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 598,677. The Phi Kappa Tau Fraternity, Oxford, Ohio. Filed June 6, 1950.



For Finger Rings, Pendants, Bracelets, and Badges, Made Either Wholly or Partly of Precious Metal.
Claims use since 1917.

Ser. No. 649,336. R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Filed June 24, 1953.

WALTZ OF SPRING

For Sterling Silver Flatware.
Claims use since June 19, 1953.

Ser. No. 649,380. S. M. Mickelson Company, San Francisco, Calif. Filed June 25, 1953.

DEVOTION LOCK

No claim is made to the word "Lock" apart from the mark as shown.
For Finger Rings and Parts Thereof.
Claims use since June 1, 1953.

Ser. No. 649,576. Paul Flato Sales Corporation, New York, N. Y. Filed June 30, 1953.

BOTAY

For Jewelry for Personal Wear, Not Including Watches—Namely, Finger Rings, Trinkets, Necklaces, Bracelets, Earrings, Brooches, and Ornamental Clips Made in Whole or in Part of, or Plated With Precious Metals.
Claims use since June 9, 1953.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 617,753. Gleamit Company, Roslyn Heights, N. Y. Filed Aug. 16, 1951.

GLEAMIT

For Chemically Treated Polishing Gloves.
Claims use since June 26, 1951.

Ser. No. 647,572. Bymart-Tintair, Inc., Dover, Del., and New York, N. Y. Filed May 8, 1953.

Tintair

For Hair Coloring Applicator Brushes.
Claims use since Aug. 22, 1950.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 638,263. The A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Filed Nov. 18, 1952.

LECTRO L&H HOST

For Electric Freezers and Electric Refrigerators.
Claims use since Nov. 3, 1949.

Ser. No. 640,881. Saba, Schwarzwalder Apparate-Bau-Anstalt, August Schwer Sohne, G. m. b. H., Villingen, Schwarzwald, Germany. Filed July 26, 1950.

SABA

Priority is claimed under Sec. 44(d). German application filed Jan. 30, 1950, Registration No. 617,237, dated Feb. 25, 1952.
For Refrigerators for Commercial and Home Use, and Parts Thereof.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 619,745. Design Fabricators, Inc., Chicago, Ill. Filed Oct. 9, 1951.

Realax

For Chairs.
Claims use since Sept. 25, 1951.

Ser. No. 628,067. Stephen Furniture Co. Inc., New York and Long Island City, N. Y. Filed Apr. 14, 1952.

Moditional

For Sofas, Couches, Loveseats, Chairs, Sectional Sofas, Sectional Couches, and Sectional Loveseats.
Claims use since Mar. 5, 1952.

Ser. No. 640,197. Dennis Mitchell Industries, Philadelphia, Pa. Filed Dec. 31, 1952.

CLOSITEER

For Clothes Rack.
Claims use since Aug. 1, 1952.

Ser. No. 646,430. Rountree-Presbrey, Inc., New York, N. Y. Filed May 4, 1953.

BEACHEAD

For Headrests for Beach Use.
Claims use since January 1953.

Ser. No. 648,009. Douglas Furniture Corporation, Chicago, Ill. Filed June 1, 1953.

Allegro

For Kitchen and Dinette Tables and Chairs.
Claims use since Feb. 9, 1953.

Ser. No. 648,090. Douglas Furniture Corporation, Chicago, Ill. Filed June 2, 1953.

Rondo

For Kitchen and Dinette Tables and Chairs.
Claims use since Mar. 2, 1953.

Ser. No. 648,160. Douglas Furniture Corporation, Chicago, Ill. Filed June 3, 1953.

tem-tex

For Kitchen and Dinette Tables and Chairs.
Claims use since Mar. 16, 1953.

Ser. No. 648,310. Kay Manufacturing Corporation, Brooklyn, N. Y. Filed June 5, 1953.

STARRY NIGHT

Applicant claims ownership of Registration No. 314,758.
For Inner Spring Units for Mattresses and Cushions.
Claims use since on or about Feb. 15, 1934.

Ser. No. 648,320. Kay Manufacturing Corporation, Brooklyn, N. Y. Filed June 5, 1953. (Sec. 2f.)

KAYBLE EDGE

Applicant claims ownership of Registration No. 366,611.
For Inner Springs and Inner Spring Units for Mattresses and Cushions.
Claims use since on or about February 1938.

Ser. No. 648,376. Douglas Furniture Corporation, Chicago, Ill. Filed June 8, 1953.

Flyte

For Kitchen and Dinette Tables and Chairs.
Claims use since Mar. 25, 1953.

Ser. No. 648,377. Douglas Furniture Corporation, Chicago, Ill. Filed June 8, 1953.

Vanity Flair

For Kitchen and Dinette Tables and Chairs.
Claims use since Mar. 25, 1953.

Ser. No. 648,389. The General Tire & Rubber Company, Akron, Ohio. Filed June 8, 1953.

GENFOAM

For Cushions and Mattresses Made of Blown Sponge Rubber.
Claims use since May 7, 1953.

Ser. No. 648,593. Douglas Furniture Corporation, Chicago, Ill. Filed June 11, 1953.

Lyric

For Kitchen and Dinette Tables and Chairs.
Claims use since Apr. 14, 1953.

Ser. No. 648,594. Douglas Furniture Corporation, Chicago, Ill. Filed June 11, 1953.

Tampa

For Kitchen and Dinette Tables and Chairs.
Claims use since Apr. 14, 1953.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 568,832. Vito A. Cianciulli, Norristown, Pa. Filed Nov. 16, 1948.

NORSCO
QUALITY DURABILITY
NORRISTOWN, PA.
NORSCO PRODUCTS

The words "Quality, Durability, Norristown, Pa." and "Products" are disclaimed apart from the mark as shown.
For Oil Burners, Steam Boilers, and Hot Water Boilers.
Claims use since June 21, 1948.

Ser. No. 619,856. The Steel Products Engineering Company, Springfield, Ohio. Filed Oct. 10, 1951.

FLO-MIST

For Air Atomizing Nozzle Assemblies for Oil Burners.
Claims use since Aug. 24, 1951.

Ser. No. 620,890. Kold-Hold Manufacturing Company, Lansing, Mich. Filed Nov. 5, 1951. (Sec. 2f.)

PLATECOIL

For Heat Transfer Units Consisting of Plates so Embossed as To Contain Internal Passes, and Used in Industrial Processes.
Claims use since on or about July 23, 1947.

Ser. No. 634,093. Floyd S. Lee, Inc. Ltd., Pasadena, Calif. Filed Aug. 18, 1952.

BAR-B-VATOR

For Non-Electrical Portable Barbecue Grill.
Claims use since June 4, 1952.

Ser. No. 634,094. Floyd S. Lee, Inc. Ltd., Pasadena, Calif. Filed Aug. 18, 1952.



For Non-Electrical Portable Barbecue Grill.
Claims use since June 4, 1952.

Ser. No. 648,444. Union Asbestos & Rubber Company, Chicago, Ill. Filed June 8, 1953.

UNAVECTOR

For Heating Radiators.
Claims use since Apr. 20, 1953.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 644,977. The Gates Rubber Company, Denver, Colo. Filed Apr. 9, 1953. (Sec. 2f.)

Speed-Flex

Applicant claims ownership of Registration No. 404,226.
For High Speed Belts for Power Transmission.
Claims use since Mar. 6, 1942.

Ser. No. 650,659. United States Rubber Company, New York, N. Y. Filed July 22, 1953.

jewelite

For Hose.
Claims use since July 1953.

Ser. No. 650,754. United States Rubber Company, New York, N. Y. Filed July 23, 1953.

FLEXLITE

Applicant claims ownership of Registration No. 539,940.
For Plastic Hose.
Claims use since June 1953.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 648,679. Frank C. Macri, Brooklyn, N. Y. Filed June 12, 1953.

APEX

For Accordions.
Claims use since May 19, 1953.

Ser. No. 649,042. Norman W. Welsh, doing business under the name and style of Limitone Company, Pittsburgh, Pa. Filed June 18, 1953.

LIMITONE

For Piano Silencers.
Claims use since June 12, 1953.

Ser. No. 649,156. Jenkins Music Company, Kansas City, Mo. Filed June 22, 1953.

Elburn

For Pianos.
Claims use since Sept. 15, 1902.

Ser. No. 649,443. Scherl & Roth, Inc., Cleveland, Ohio. Filed June 26, 1953.

Eudoxa

Applicant claims ownership of Registration No. 547,587.
For Rosin, Pegs, Tailpieces, Mutes, Chin Rests, Bridges, End Pins, Bow Frogs, Bow Hair, and Bows for Use on String Instruments and Cases for String Instruments.
Claims use since Nov. 2, 1952.

Ser. No. 649,452. Vox Productions, Inc., New York, N. Y. Filed June 26, 1953.

VOX

Applicant claims ownership of Registration No. 396,021.
For Grooved Phonograph Records.
Claims use since October 1945.

CLASS 37

PAPER AND STATIONERY

Ser. No. 527,804. Valley Paper Company, Holyoke, Mass. Filed July 5, 1947.

CONTROL

For Writing, Typewriting, and Printing Paper.
Claims use since 1919.

Ser. No. 584,252. Polychrome Corporation, Yonkers, N. Y. Filed Aug. 30, 1949. (Sec. 2f.)

POLYCHROME

For Stencils and Fluid for Use in Correcting Stencils.
Claims use since February 1936.

Ser. No. 598,633. Behr-Manning Corporation, Troy, N. Y. Filed June 6, 1950.

"SPRED-LOK"

For Pre-Cut Sections or Panels of Cardboard Used as Supporting Mandrels for Rolls of Pressure-Sensitive Tapes.
Claims use since Apr. 14, 1950.

Ser. No. 625,516. Belford Company, Inc., New York, N. Y. Filed Feb. 26, 1952.

PICTUREST

For Cloth Bound Display Mounts.
Claims use since December 1949.

Ser. No. 644,918. Marathon Corporation, Menasha, Wis. Filed Apr. 8, 1953.

marathon

Applicant claims ownership of Registration No. 416,495.
For Waxed Paper.
Claims use since Feb. 23, 1953.

Ser. No. 649,239. Marathon Corporation, Menasha, Wis. Filed June 23, 1953.

Q-BOARD

The word "Board" is disclaimed apart from the mark as shown.
For Solid Bleached Paperboard in Rolls or Sheets.
Claims use since Dec. 2, 1952.

Ser. No. 649,355. The John H. Feaver Paper Company, Bala-Cynwyd, Pa. Filed June 25, 1953.

BE SURE

For Flexible Corrugated Wrapping Paper.
Claims use since Aug. 4, 1952.

CLASS 39

CLOTHING

Ser. No. 639,620. Edmont Manufacturing Company, Coshocton, Ohio. Filed Dec. 17, 1952.

GRAPPLER



The design of a man appearing on the present drawing is purely fanciful.
For Utility Gloves Made of Fabric Coated With Rubber or Similar Composition.
Claims use since on or about Nov. 4, 1952.

Ser. No. 639,922. Daron Underwear Corp., New York, N. Y. Filed Dec. 23, 1952.

Super Daron

The word "Super" is disclaimed apart from the mark as shown in the drawing.
For Men's, Women's, and Children's Polo Shirts, T-Shirts, Hosiery, and Underwear—Namely, Shorts, Shirts, and Briefs.
Claims use since July 17, 1947.

Ser. No. 642,552. Hortex Manufacturing Co., Inc., El Paso, Tex. Filed Feb. 20, 1953.

SAFTLBO

The word "Lbo" is disclaimed apart from the mark as shown in the drawing.
For Boys' Jackets.
Claims use since Nov. 11, 1952.

Ser. No. 642,910. Steiner-Lobman Dry Goods Company, Montgomery, Ala. Filed Feb. 27, 1953.

TEEGS

For Dungarees, Work Pants, and Overalls.
Claims use since Dec. 29, 1952.

Ser. No. 645,593. Reliance Manufacturing Company, Chicago, Ill. Filed Apr. 20, 1953.

HOT POCKETS

Applicant disclaims the word "Pockets" apart from the mark as shown.
For Jackets and Trousers.
Claims use since Mar. 27, 1953.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 634,897. The General Tire & Rubber Company, Akron, Ohio. Filed Sept. 5, 1952.

GENWELT

For Flexible Trimming and Beading of Polymeric Material for Use in the Fabrication of Cushions, Pocketbooks, Luggage, and Similar Goods.
Claims use since June 27, 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 634,195. Fair Tex Mills, Inc., Catasauqua, Pa., and New York, N. Y. Filed Aug. 20, 1952.

Fair-Set

The word "Set" appearing on the drawing is disclaimed apart from the mark as shown.
For Knitted Textile Fabrics Made of Cotton, Wool, Rayon, Nylon, and Mixtures of the Same, in the Piece.
Claims use since on or about June 15, 1951.

Ser. No. 637,763. Dutch-American Raw Materials Corporation, New York, N. Y. Filed Nov. 7, 1952.

Daram

For Textile Fabrics Made of Cotton, Wool, and Synthetic Fibers.
Claims use since Aug. 15, 1949.

Ser. No. 641,426. Bachmann Uxbridge Worsted Corporation, New York, N. Y. Filed Jan. 28, 1953. (Sec. 2f as to "Uxbridge.")

For tomorrow's Fabrics today
Look to
UXBRIDGE

Applicant disclaims the words "For Tomorrow's Fabrics Today Look To" apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 503,447.
For Textile Fabrics in the Piece Composed of Wool and Synthetic Fibers.
Claims use since Nov. 5, 1952, as to the mark shown; and since 1921 as to the mark "Uxbridge."

Ser. No. 641,549. Fuld Bros., New York, N. Y. Filed Jan. 30, 1953.

CONVERTIBLE FITTED
Homestead

The words "Convertible Fitted" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 172,933.
For Blankets.
Claims use since Jan. 19, 1953.

Ser. No. 642,869. The Carlee Corporation, Teaneck, N. J. Filed Feb. 27, 1953.

Wonda Quilt
STITCHLESS
for Lasting Beauty
OF PLASTIC

No claim is made to the words "Quilt," "Stitchless for Lasting Beauty," and "Of Plastic" apart from the mark as shown.
For Padded Plastic Piece Goods or Film Sold as Yard Goods To Be Used in the Making of Sleeping Bags, Seat Covers, Covering Closet Accessories, and Other Goods.
Claims use since June 26, 1951.

Ser. No. 645,466. Crown Fabrics Corporation, New York, N. Y. Filed Apr. 17, 1953. (Sec. 2f as to "Soap 'n' Water.")



Applicant claims ownership of Registrations Nos. 408,795, 568,905, and others.
For Textile Fabrics in the Piece Made of Wool, Cotton, Silk, Rayon, and Mixtures Thereof.
Claims use since July 1943.

Ser. No. 647,337. Belrug Mills of South Carolina, Greenville, S. C. Filed May 20, 1953.



No claim is made to the representation of the goods apart from the mark shown in the drawing. The person shown is "Pat Burrage," consent of record.

For Loom Woven Cut Pile Cotton Rugs.

Claims use since Apr. 8, 1953.

Ser. No. 648,244. Goodall-Sanford, Inc., Sanford, Maine. Filed June 4, 1953. (Sec. 2f.)

GOODALL BLEND

The word "Blend" is disclaimed separate and apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 301,480, 301,416, and others.

For Piece Goods of Cotton, Mohair, Wool, Synthetic Fibers, and Combinations Thereof, Sold in Bolt.

Claims use since Mar. 18, 1953, as to the mark shown; and since Sept. 1, 1932, as to the word "Goodall."

Ser. No. 648,890. Paul Whitin Manufacturing Company, Northbridge, Mass. Filed June 16, 1953.

Hi-TEAR

For Textile Fabrics of Synthetic Fibers.

Claims use since May 19, 1953.

Ser. No. 648,990. The Fritz & LaRue Company, New York, N. Y. Filed June 18, 1953.

Taj Mahal

For Woven and/or Knotted Rugs and Carpets.

Claims use since 1936.

Ser. No. 649,134. Deering, Milliken & Co., Inc., New York, N. Y. Filed June 22, 1953.

GWEEBARA

For Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers and Combinations Thereof.

Claims use since June 9, 1953.

Ser. No. 649,225. Erwin Mills, Inc., Durham, N. C. Filed June 23, 1953.

Nylodenim

For Denim Fabrics of Cotton and Nylon Fibers.

Claims use since May 15, 1953.

Ser. No. 649,226. Erwin Mills, Inc., Durham, N. C. Filed June 23, 1953.

Southern Sky

For Piece Goods of Cotton, Rayon (Viscose and Acetate), Wool, Linen, Nylon, and/or Other Synthetic Fibers and Combinations Thereof.

Claims use since May 15, 1953.

Ser. No. 649,612. Regency Textiles, Inc., New York, N. Y. Filed June 30, 1953.

Shangtwill

For Silk Piece Goods.

Claims use since April 1951.

Ser. No. 649,620. United Merchants and Manufacturers, Inc., New York, N. Y. Filed June 30, 1953.

A.V.R.

For Piece Goods of Cotton, Wool, Silk, Synthetic Fibers, and/or Combinations Thereof.

Claims use since on or about June 19, 1953.

CLASS 43

THREAD AND YARN

Ser. No. 649,094. Lehigh Spinning Company, Allentown, Pa. Filed June 19, 1953.

LEHIGH 567

For Viscose, Viscose and Acetate, and Acetate Yarns.

Claims use since May 14, 1953.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 620,566. Don Baxter, Inc., Glendale, Calif. Filed Oct. 29, 1951. CONCURRENT USE with Serial No. 620,578 for the area comprising the States of California, Nevada, Arizona, Oregon, Washington, Idaho, Montana, Utah, New Mexico, Colorado, Wyoming, and the city of El Paso in the State of Texas, and in the Hawaiian Islands and Alaska.

PLASMA-VAC

The word "Plasma" is disclaimed apart from the mark as a whole.

For Container Dispensers for Parenteral Fluids Having a Sealing Stopper and a Vacuum Drawn in Said Container.

Claims use since Dec. 19, 1940.

Ser. No. 620,578. Baxter Laboratories, Inc., Morton Grove, Ill. Filed Oct. 29, 1951. CONCURRENT USE with Serial No. 620,566 for the area comprising the District of Columbia, the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, Delaware, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Kentucky, Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Arkansas, Louisiana, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas, excepting the city of El Paso, Tex., and including Puerto Rico, the Virgin Islands, and the Canal Zone.

Plasma-Vac

No claim is made to the word "Plasma" apart from the mark as shown in the drawing.

For Closure-Equipped Bottles for Use in the Transfusion of Blood and the Collecting, Separating, Handling, Storing, and Dispensing of the Fluid Portion Thereof, and for Container Dispensers for Parenteral Fluids.

Claims use since Oct. 28, 1939.

Ser. No. 628,902. American Cystoscope Makers, Inc., New York, N. Y. Filed Apr. 30, 1952. (Sec. 2f.)

THORPE

For Endoscopic Instruments—Namely, Ocular Endoscopes and Components Thereof.

Claims use since 1934.

Ser. No. 650,551. Technical Oil Tool Corporation, Los Angeles, Calif. Filed July 20, 1953.

TOTCO

For Wound Clips, Wound Clip Appliers, and Wound Clip Removers.

Claims use since July 17, 1952.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 615,005. Corporacion Argentina de Productores de Carnes, New York, N. Y. Filed June 9, 1951.

SANDA

For Canned Corned Beef, Canned Roast Beef, and Corned Brisket of Beef.

Claims use since Apr. 4, 1951.

Ser. No. 627,546. Tilbest Foods, Inc., Milwaukee, Wis. Filed Apr. 3, 1952.

Tilbest

For Prepared Food Mix—Namely, Chocolate Cake Mix, White Cake Mix, Spice Cake Mix, Angel Food Cake Mix, Pie Crust Mix, Gingerbread Mix, Tea Biscuit Mix, Muffin Mix, Corn Muffin Mix, Hot Roll Mix, Doughnut Mix, Pancake Mix, Waffle Mix, Brownie Mix, Chiffon Cake Mix, and Blueberry Muffin Mix.

Claims use since Feb. 14, 1949.

Ser. No. 633,071. Pesta Foods, Inc., Cleveland, Ohio. Filed July 25, 1952. (Sec. 2f.)

Pesta

Applicant disclaims exclusive appropriation of the representation of a pickle apart from the trade-mark as shown.

For Home Style Dill Pickles, Home Style Kosher Pony Pickles, Home Style Kosher Dill Sticks, Home Style Kosher Dill Pickles, Crispy Whole Dill Pickles, Crispy Kosher Dill Pickles, Crispy Sweet Mustard Pickles, Crispy Sweet Mixed Pickles, Extra Sweet Dill Pickle Sticks, Home Style Sweet Pickles, Crispy Whole Sweet Pickles, Crispy Sweet Pickle Chips, Salad Style Pure Mustard, Horseradish Style Pure Mustard, Fancy Chili Sauce, Flavored Horseradish Chow, Horseradish, Extra Fancy Tomato Catsup, Fresh Sweetened Cucumber Rings, Extra Sweet Rings of Onions, Crispy Sweet Pickle Relish, Crispy Whole Sweet Onions, White Distilled Vinegar, Apple Cider Vinegar, Louisiana Red Hot Pepper Sauce, Garden Fresh Relish, Canned Kosher Style Green Tomatoes, Sweetened Pickled Beets, Hamburger Slices Containing Cucumbers, Vinegar, Salt, Spices, and Alum, Tasty-Flavory Sweet Peppers, Tasty-Flavory Hot Peppers, Sweet Pickled Watermelon Rind, Imported Sour Holland Cocktail Onions, Extra Sweet Candied Midget Pickles, Imported Spanish Cocktail Olives, Cocktail Shrimp, Canned Jumbo Shrimp, Canned Medium Shrimp, Imported Spanish Queen Olives, Imported Spanish Stuffed Olives, Imported Spanish Almond Stuffed Olives, Imported Spanish Triple Stuffed Olives, Imported Spanish Salad Olives, Imported Spanish Anchovy Stuffed Olives, Imported Spanish Onion Stuffed Olives, Ripe Olives, Canned Sauer Kraut, Beans and Pork, Canned Tuna, Red Kidney Beans, Tomato Juice, Maraschino Cherries, Pure Mince Meat, Fancy Clover Honey, Canned Orange Juice, Canned Orange and Grapefruit Juice, Canned Grapefruit Juice.

Claims use since June 1, 1934.

Ser. No. 633,186. United Biscuit Company of America, Chicago, Ill. Filed July 28, 1952.

TownHouse

For Crackers.

Claims use since Oct. 4, 1940.

Ser. No. 636,694. Delson Candy Company, New York, N. Y. Filed Oct. 16, 1952. (Sec. 2f as to "Delson.")

Delson MERRI-FRUITS

The word "Fruits" is disclaimed apart from the mark shown in the drawing. Applicant claims ownership of Registrations Nos. 322,247, 427,773, and others.

For Candies.

Claims use since Sept. 15, 1952 for mark as shown; and since Jan. 13, 1931 as to "Delson."

Ser. No. 639,487. Mike Schultz & Son, El Centro, Calif. Filed Dec. 15, 1952.

Little MIKE



The portrait shown on the drawing is a pictorial likeness of Michael A. Schultz, a minor, a member of the applicant firm. A consent to the use and registration of this portrait as a feature of the instant trade-mark is of record.

For Fresh Vegetables.

Claims use since Jan. 21, 1952.

Ser. No. 644,621. La Fara Imported Macaroni Company, also doing business as La Fara Macaroni Company, Philadelphia, Pa. Filed Apr. 2, 1953.

LA FARA

For Alimentary Pastes.

Claims use since Mar. 20, 1953.

Ser. No. 645,108. Charlotte Refining Company, Charlotte, N. C. Filed Apr. 13, 1953.

CHARLOTTE'S

For Peanut Salad and Cooking Oil.

Claims use since on or about Nov. 12, 1951.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 646,102. Anderson County Distilling Company, Cincinnati, Ohio. Filed Apr. 29, 1953. (Sec. 2f.)

ANDERSON CLUB

For Whiskey.

Claims use since 1933.

Ser. No. 648,522. The American Distilling Company, Pekin, Ill., and Sausalito, Calif. Filed June 10, 1953.

3-Monks

Applicant claims ownership of Registration No. 318,945.

For Brandy.

Claims use since May 22, 1953.

Ser. No. 650,104. John Hopkins & Co. Limited, Glasgow, Scotland. Filed July 10, 1953.

GLEN GARRY

Applicant claims ownership of Registration No. 312,961.

For Scotch Whisky.

Claims use since April 1878; and first used in commerce between Great Britain and the United States on April 1887.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 623,624. Upressit Metal Cap Corporation, Wilmington, Del. Filed Jan. 15, 1952. (Sec. 2f as to the word "Upressit.")

UPRESSIT

SEALING UNLIMITED

The lines are a part of the mark and are not representative of color. Applicant disclaims the words "Sealing Unlimited" and the representation of a closure apart from the mark as shown. Applicant claims ownership of Registration No. 115,041.

For Closures for Tin and Glass Containers.

Claims use since Oct. 9, 1951; and since May 15, 1915, as to the word "Upressit."

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 623,260. Sales Affiliates, Inc., New York, N. Y. Filed Jan. 5, 1952. (Sec. 2f.)

ZOTOS
FLUID WAVE

Applicant claims ownership of Registration No. 314,590.

For Hair Waving Lotion.

Claims use since Dec. 17, 1946.

Ser. No. 642,834. Parfums Charbert, Incorporated, Newark, N. J. Filed Feb. 26, 1953.

THREE STAR CAST

For Cosmetics and Beauty Preparations—Namely, Perfumes, Toilet Water, Sachet, and Dusting Powder.

Claims use since Jan. 27, 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 651,516. Lever Brothers Company, New York, N. Y. Filed Aug. 7, 1953.

dove

Applicant claims ownership of Registration No. 425,318.

For Washing Powders and Detergents in Bar Form for Toilet Use.

Claims use since Dec. 27, 1945.

SERVICE MARKS

CLASS 104

COMMUNICATION

Ser. No. 630,228. Aircall, Inc., New York, N. Y., assignee of Telanserphone Incorporated. Filed May 24, 1952. (Sec. 2f.)

AIRCALL

For Radiopaging, a Service Consisting of Paging Subscribers by Radio.

Claims use since Oct. 15, 1950.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 638,372. Pioneer Auto Leasing System, Chicago, Ill. Filed Nov. 20, 1952.



Applicant disclaims the representation of the automobile separate and apart from the service mark as shown.

For Leasing Automobiles to Individuals, Firms, and Corporations, Who Furnish Their Own Drivers Therefor.

Claims use since Aug. 26, 1952.

CLASS 106

MATERIAL TREATMENT

Ser. No. 648,748. General American Transportation Corporation, Chicago, Ill. Filed June 15, 1953.

KANIGEN

For Chemically Depositing a Nickel Coating on Parts Such as Machine Parts, Piping, Tanks, and Other Parts Having Solid Surfaces Which Can Be Protected or Built Up by a Nickel Coating.

Claims use since May 25, 1953.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 623,844. Charles Morris, Phoenix, Ariz. Filed Jan. 21, 1952.

GEAR JAMMERS JAMBOREE

The descriptive word "Jamboree" is disclaimed apart from the mark.

For Information and Entertainment Service Rendered to Truck Drivers Through the Medium of a Radio Broadcast Program Consisting of Weather Reports, Road Reports, and Recorded Music.

Claims use since Aug. 20, 1951.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

584,249. Combination Utility Table and Cabinet. Art-Lloyd Metal Products Corp., Brooklyn, N. Y.
Filed Apr. 14, 1950, Serial No. 595,703. Published Oct. 6, 1953. Class 32.

584,250. Hypodermic Needles, Hypodermic Tubing, and Dental Broaches. S. & R. J. Everett Co. Ltd., Surrey, England.
Filed Feb. 3, 1950, Serial No. 591,920. Published Oct. 13, 1953. Class 44.

584,251. Snuff. United States Tobacco Company, Flemington, N. J., and New York, N. Y.
Filed May 25, 1950, Serial No. 598,128. Published Oct. 6, 1953. Class 17.

584,252. CONSOLIDATED CERTIFICATE. The Dow Chemical Company, Midland, Mich.
Synthetic Resinous Plastics—Namely, Polymerized Styrene, Etc. Filed Aug. 2, 1950, Serial No. 601,605. Published Aug. 4, 1953. Class 1.
Synthetic Resinous Plastics—Namely, Polymerized Styrene, Etc. Filed Oct. 13, 1952, Serial No. 636,557. Published June 23, 1953. Class 6.

584,253. Stuffed Dog Featuring School Letters and Initials, Etc., Which Are Attached to an Ear of the Dog, Sold as a Novelty. Collegiate Manufacturing Company, Inc., Ames, Iowa.
Filed Oct. 25, 1950, Serial No. 605,409. Published Oct. 13, 1953. Class 22.

584,254. CONSOLIDATED CERTIFICATE. Joy Manufacturing Company, Pittsburgh, Pa.
Shuttle Cars, Trucks for Kerf-Cutting Machines, and Utility Trucks. Filed Nov. 24, 1950, Serial No. 606,870. Published Mar. 31, 1953. Class 19.
Molded Rubber and/or Synthetic Rubber Covered Electric Power and Communication Connectors, Etc. Filed July 23, 1952, Serial No. 632,941. Published June 30, 1953. Class 21.
Air Motors; Rotary; Carpullers; Compressors; Portable, Semiportable, Stationary, and Mine Car; Etc. Filed Nov. 25, 1950, Serial No. 606,945. Published June 2, 1953. Class 23.
Axial Flow Fans Having Casings and Stationary Vanes for Moving Air, and for Oxygen Generators for Producing Oxygen From Atmospheric Air. Filed Aug. 30, 1952, Serial No. 634,692. Published Mar. 17, 1953. Class 34.

584,255. Water Colors, Oil Colors, Tempera Colors, Air Brush Paint Colors, and Casein Colors. Nobema Products Corporation, New York, N. Y.
Filed Dec. 1, 1950, Serial No. 607,184. Published Oct. 6, 1953. Class 16.

584,256. Liquid Dentifrice, Mouth Wash, Hair Pomade, Hair Cream Dressing, Wave Set Lotion, Etc. Albert Irving Wigler, doing business as Addison-Proctor Company, Newark, N. J.
Filed Nov. 1, 1950, Serial No. 607,370. Published Nov. 18, 1952. Class 51.

584,257. Cartridge Refills for Ball-Point Pens and for Writing Ink. David Kahn, Inc., North Bergen, N. J.
Filed Jan. 4, 1951, Serial No. 608,359. Published Oct. 6, 1953. Class 11.

584,258. Hearing-Aid Microphones. Sonotone Corporation, Elmsford, N. Y.
Filed Jan. 9, 1951, Serial No. 608,572. Published Oct. 20, 1953. Class 44.

584,259. Preparations in Paste Form for Cleaning and Polishing Windows. Lifeguard Products Limited, London, England.
Filed Jan. 10, 1951, Serial No. 608,612. Published Oct. 6, 1953. Class 4.

584,260. Moth-Repellent Crystals and Pressed Blocks Made of Moth-Repellent Crystals. Uncle Sam Chemical Co., Inc., New York, N. Y.
Filed Mar. 23, 1951, Serial No. 611,730. Published June 17, 1952. Class 6.

584,261. CONSOLIDATED CERTIFICATE. Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere.
Polishing, Brushing, and Buffing Wheels and Compositions for Buffing, Polishing, and Like Purposes. Filed Aug. 1, 1951, Serial No. 617,194. Published Dec. 16, 1952. Class 4.
Electroplating Bath Ingredients, Ammonium Chloride, Etc. Filed Aug. 1, 1951, Serial No. 617,195. Published Dec. 30, 1952. Class 6.
Metal Anodes for Electroplating. Filed Aug. 29, 1952, Serial No. 634,644. Published Mar. 17, 1953. Class 14.
Apparatus for Electroplating, Anodically Treating, Electrocleaning, Electropickling, Electroetching, and Electropolishing and Parts Thereof. Filed Aug. 9, 1951, Serial No. 617,495. Published May 19, 1953. Class 21.
Polishing, Buffing, Cleaning, Pickling, Degreasing, and Washing Machines and Parts Thereof for Industrial Use. Filed Aug. 31, 1951, Serial No. 618,293. Published July 21, 1953. Class 23.

584,262. Rubber Base Paint in Liquid Form, Particularly Designed for Use on Concrete Floors. Steelcote Manufacturing Company, St. Louis, Mo.
Filed Aug. 10, 1951, Serial No. 617,563. Published Oct. 6, 1953. Class 16.

584,263. Liqueurs. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France.
Filed Aug. 15, 1951, Serial No. 617,714. Published Sept. 8, 1953. Class 49.

584,264. Finishing Cement Paint in Dry Powdered Form. Art-Cement Manufacturing Co., Miami, Fla.
Filed Oct. 22, 1951, Serial No. 620,293. Published Oct. 6, 1953. Class 16.

584,265. Container Dispenser for Intravenous Solutions, Intravenous Tubing, Etc. Don Baxter, Inc., Glendale, Calif.
Filed Oct. 29, 1951, Serial No. 620,572. CONCURRENT USE. Published Sept. 29, 1953. Class 44.

584,266. Container Dispenser for Parenteral Solutions, Intravenous Tubing, Connector Fittings for Connecting Tubing to the Container, and Tubing for Conducting Fluids to or From a Container and a Patient. Baxter Laboratories, Inc., Morton Grove, Ill.
Filed Oct. 29, 1951, Serial No. 620,585. CONCURRENT USE. Published Sept. 29, 1953. Class 44.

584,267. Mattresses and Box Springs. New York Mattress Company, Boston, Mass., assignor to The Englander Company, Inc., Chicago, Ill., a corporation of Delaware.
Filed Nov. 5, 1951, Serial No. 620,898. Published July 1, 1952. Class 32.

584,268. Swing Stages, Mobile Maintenance Scaffolding Towers, and Bosun's Chairs. Safway Steel Products, Inc., Milwaukee, Wis.
Filed Nov. 8, 1951, Serial No. 621,031. Published Mar. 10, 1953. Class 30.

584,269. Corsetry—Namely, Girdles and Panty-Girdles. Sears, Roebuck and Co., Chicago, Ill.
Filed Jan. 17, 1952, Serial No. 623,735. Published Oct. 6, 1953. Class 39.

584,270. Nitro-Cellulose Base Multi-Colored Lacquers. Zolatone, Inc., Los Angeles, Calif., assignor to Paramount Paint & Lacquer Co., Los Angeles, Calif., a corporation of California.
Filed Jan. 28, 1952, Serial No. 624,218. Published Oct. 6, 1953. Class 16.

584,271. Vegetable Products in the Form of Flakes, Semolina, Flour, and Powder, Pure or in Combination With, Etc. Meyerhans & Cie. A. G. Mühle Weinfelden, Weinfelden, Switzerland.
Priority under Sec. 44(d). Swiss Registration No. 139,146, filed Sept. 8, 1951.
Filed Feb. 15, 1952, Serial No. 625,019. Published Sept. 29, 1953. Class 6.

584,272. Liquid Soap. West Disinfecting Company, Long Island City, N. Y.
Filed Feb. 18, 1952, Serial No. 625,165. Published Sept. 30, 1952. Class 52.

584,273. Blend of Clays to Mix With Molding Sand for the Purpose of Renewing Its Usefulness. International Minerals & Chemical Corporation, Chicago, Ill.
Filed Feb. 19, 1952, Serial No. 625,204. Published Sept. 22, 1953. Class 1.

584,274. Cleaning Fluids for Machinery, Cleaning Fluids for the Textile Industry Including a Cleaner for Textile Needles, Sinkers, Bits, and the Like, and Soap Intended for Use by the Textile Industry. Kali Manufacturing Co., Philadelphia, Pa.
Filed Feb. 7, 1952, Serial No. 625,314. Published Oct. 6, 1953. Class 52.

584,275. Elastic Fabrics. United Elastic Corporation, Easthampton, Mass.
Filed Feb. 29, 1952, Serial No. 625,774. Published Oct. 6, 1953. Class 42.

584,276. Ironing Machines, Clothes Washing Machines, and Clothes Driers. G. M. Gibson Corporation, Bellevue, Iowa.
Filed Mar. 15, 1952, Serial No. 626,508. Published Oct. 13, 1953. Class 24.

584,277. Instrument That Is a Narrow Band Sweeping Oscillator for Use With an Oscilloscope in Defining the Pass Band, Etc. Kay Electric Company, Pine Brook, N. J.
Filed Apr. 11, 1952, Serial No. 627,947. Published Aug. 18, 1953. Class 26.

584,278. Instrument for Producing Pulse Widths of .1 to .25 Micro Seconds for Measuring Transient Responses of Military and Commercial Receiver and System Using Carrier Frequencies of 30 to 60 Mega-Cycles and Other Uses. Kay Electric Company, Pine Brook, N. J.
Filed Apr. 11, 1952, Serial No. 627,949. Published Aug. 18, 1953. Class 26.

584,279. Pedal Cycles and Motor Cycles and Parts of and Fittings Therefor. The Raynal Cycle Company Limited, Birmingham, England.
Filed Apr. 25, 1952, Serial No. 628,716. Published Oct. 13, 1953. Class 19.

584,280. Flower Seeds Only. W. Atlee Burpee Co., Philadelphia, Pa.
Filed May 12, 1952, Serial No. 629,547. Published Dec. 16, 1952. Class 1.

584,281. Synthetic Resin or Solution Thereof Used as a Base for Paints and Varnishes and in Coating Compositions for Water-Proofing Masonry and Curing Concrete. Reichhold Chemicals, Inc., Detroit, Mich.
Filed May 23, 1952, Serial No. 630,150. Published Oct. 13, 1953. Class 16.

584,282. Real Leather for Handbags. Julius Brand Leather Co., Inc., Newark, N. J.
Filed May 29, 1952, Serial No. 630,496. Published Sept. 22, 1953. Class 1.

584,283. Abrasive Paper. Sandpaper Incorporated, Rockland, Mass.
Filed June 3, 1952, Serial No. 630,684. Published Oct. 13, 1953. Class 4.

584,284. Enteric Coated Tablets for the Relief of Arthritis, Neuralgia, Rheumatism, Lumbago, Sciatica, Neuritis, and Bursitis. Curtis Drug Co., Decatur, Ill.
Filed June 10, 1952, Serial No. 630,991. Published Oct. 20, 1953. Class 18.

584,285. Wallets for Sanitary Napkins. Arthur Grush, Brooklyn, N. Y.
Filed June 18, 1952, Serial No. 631,353. Published Sept. 22, 1953. Class 44.

584,286. Composition for Applying to Cotton and Burlap Bags To Render Them Rodent Repellent. Fulton Bag and Cotton Mills, Atlanta, Ga.
Filed June 26, 1952, Serial No. 631,796. Published Oct. 13, 1953. Class 6.

584,287. Playground Equipment — Namely, Climbing Houses and Ladders, Etc. Childcraft Equipment Company, New York, N. Y.
Filed July 5, 1952, Serial No. 632,153. Published Oct. 13, 1953. Class 22.

584,288. Belting Made of Rubber and Fabric. United States Rubber Company, New York, N. Y.
Filed July 8, 1952, Serial No. 632,278. Published Oct. 20, 1953. Class 35.

584,289. Garter Panties. Beverly Vogue Company, Los Angeles, Calif.
Filed July 31, 1952, Serial No. 633,297. Published Oct. 13, 1953. Class 39.

584,290. Nasal Preparation. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y.
Filed Aug. 1, 1952, Serial No. 633,348. Published Oct. 20, 1953. Class 18.

584,291. Concentrated Heavy-Duty Cleaner, Degreaser, Etc. Burton S. Price, doing business as Enzrust Co., Newton, Mass.
Filed Aug. 6, 1952, Serial No. 633,555. Published Oct. 6, 1953. Class 52.

584,292. Narrow Elastic Webbing. United Elastic Corporation, Easthampton, Mass.
Filed Aug. 12, 1952, Serial No. 633,797. Published Oct. 6, 1953. Class 42.

584,293. Wide Elastic Fabrics. United Elastic Corporation, Easthampton, Mass.
Filed Aug. 12, 1952, Serial No. 633,798. Published Oct. 6, 1953. Class 42.

584,294. Metal Castings. Quincy Foundry, Inc., Quincy, Ohio.
Filed Aug. 14, 1952, Serial No. 633,943. Published Oct. 6, 1953. Class 14.

584,295. Tantalum, Tungsten, Molybdenum, and Columbium; Etc. Fansteel Metallurgical Corporation, North Chicago, Ill.
Filed Aug. 16, 1952, Serial No. 634,037. Published Oct. 13, 1953. Class 14.

584,296. Cigarette Holders. Helena Rubinstein, Inc., New York, N. Y.
Filed Aug. 27, 1952, Serial No. 634,548. Published Oct. 6, 1953. Class 8.

584,297. Blankets (Including Baby, Bed, and Camping Ones), Automobile and Lap Robes, Steamer Rugs, Afghans, Bath Mats, and Textile Floor Rugs. F. C. Huyck & Sons, Rensselaer and Albany, N. Y.
Filed Sept. 4, 1952, Serial No. 634,850. Published Oct. 6, 1953. Class 42.

584,298. Protective Coating for Application to the Chrome Surfaces of Automobiles and the Like. Dupli-Color Products Co., Inc., Chicago, Ill.
Filed Sept. 5, 1952, Serial No. 634,891. Published Oct. 13, 1953. Class 16.

584,299. Vitaminic and Antianemic Preparation. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed Sept. 5, 1952, Serial No. 634,927. Published Sept. 22, 1953. Class 18.

584,300. Automotive Vehicle Chassis Parts—Namely, King Bolt Sets, Etc. The Cleveland Graphite Bronze Company, Cleveland, Ohio.
Filed Sept. 10, 1952, Serial No. 635,082. Published Oct. 13, 1953. Class 19.

584,301. Vitaminic Preparation for Use as a Food Supplement. The Beverly Corporation, Chicago, Ill.
Filed Sept. 11, 1952, Serial No. 635,119. Published Oct. 20, 1953. Class 18.

584,302. Pressing Fluid Composition and Preparation for Treating Garments and Fabrics To Renew and Lubricate the Fibers Thereof. Dry Cleaners Research Industries, Inc., Chicago, Ill.
Filed Sept. 11, 1952, Serial No. 635,126. Published Oct. 20, 1953. Class 6.

584,303. Aliphatic Esters and Ketones Produced From Acetylene, Dyes, Mordants, Bleaches, Starches, and Starch Preparations. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie G. m. b. H.
Filed June 13, 1952, Serial No. 635,573. Published Oct. 20, 1953. Class 6.

584,304. Writing Ink. David Kahn, Inc., North Bergen, N. J.
Filed Sept. 23, 1952, Serial No. 635,656. Published Oct. 6, 1953. Class 11.

584,305. Rubber Latex Compounds for Use as Cotton and Wool Rug Backing and Sizing Materials, Etc. Montgomery Bros., Inc., Philadelphia, Pa.
Filed Sept. 24, 1952, Serial No. 635,707. Published Sept. 22, 1953. Class 1.

584,306. Aldehydes, Alcohols, and Natural and Essential Oils Suitable for Perfuming Purposes. Charabot & Co., Inc., New York, N. Y.
Filed Sept. 30, 1952, Serial No. 635,952. Published Oct. 20, 1953. Class 6.

584,307. Nitrogen-Containing Solution, Suitable for Use as Fertilizer. Allied Chemical & Dye Corporation, New York, N. Y.
Filed Oct. 1, 1952, Serial No. 635,991. Published Oct. 13, 1953. Class 10.

584,308. Oral Fat Emulsion. Schenley Laboratories, Inc., New York, N. Y.
Filed Oct. 8, 1952, Serial No. 636,385. Published Oct. 13, 1953. Class 18.

584,309. Shoe Buckles of Non-Precious Metal. E. E. Weiler Co., Providence, R. I.
Filed Oct. 8, 1952, Serial No. 636,394. Published Oct. 13, 1953. Class 40.

584,310. Chemically Microcrystalline Wax Derived From Petroleum. Warwick Wax Co. Inc., Long Island City, N. Y.
Filed Oct. 15, 1952, Serial No. 636,664. Published Oct. 13, 1953. Class 6.

584,311. Ground Limestone for Use in the Manufacture of Fertilizer and Poultry Feeds; Etc. C. K. Williams & Co., Easton, Pa.
Filed Oct. 16, 1952, Serial No. 636,756. Published Sept. 22, 1953. Class 1.

584,312. Steel Bars, Rods, Billets, Blooms, Sheets, Plates, Slabs, Strips, Blocks, Discs, and Forgings and for Steel in Special Shapes. Crucible Steel Company of America, New York, N. Y.
Filed Oct. 20, 1952, Serial No. 636,881. Published Oct. 6, 1953. Class 14.

584,313. Motorcycles. Horex-Columbus-Werk K.-G. Fritz Kleemann, Bad Homburg, Germany.
Filed Sept. 5, 1952, Serial No. 636,912. Published Oct. 13, 1953. Class 19.

584,314. Alloy Steel. Joseph T. Ryerson & Son, Inc., Chicago, Ill.
Filed Oct. 22, 1952, Serial No. 637,002. Published Oct. 6, 1953. Class 14.

584,315. Alloy Steel. Joseph T. Ryerson & Son, Inc., Chicago, Ill.
Filed Oct. 22, 1952, Serial No. 637,003. Published Oct. 6, 1953. Class 14.

584,316. Tool Steel. Joseph T. Ryerson & Son, Inc., Chicago, Ill.
Filed Oct. 22, 1952, Serial No. 637,004. Published Oct. 6, 1953. Class 14.

584,317. Relaxant-Sedative Preparation in the Form of Tablets. Crookes Laboratories, Inc., Mineola, N. Y.
Filed Oct. 23, 1952, Serial No. 637,038. Published Sept. 22, 1953. Class 18.

584,318. Lotion for the Treatment of the Human Scalp. Louis D. Bracken, doing business as L. D. Bracken, Seattle, Wash.
Filed Oct. 25, 1952, Serial No. 637,171. Published Sept. 22, 1953. Class 18.

584,319. Vehicle Body Frame. Pinch Frame Body Company, Fresno, Calif.
Filed Oct. 29, 1952, Serial No. 637,326. Published Oct. 13, 1953. Class 19.

584,320. Ethylene Diamine Tetraacetic Acid and Salts of Said Acid Used as Sequestering Agents. Glyco Products Co. Inc., Brooklyn, N. Y.
Filed Oct. 31, 1952, Serial No. 637,438. Published Oct. 13, 1953. Class 6.

584,321. Expendable Anodes Used for Plating Metal. Apothecaries Hall Company, Waterbury, Conn.
Filed Nov. 14, 1952, Serial No. 638,050. Published Oct. 6, 1953. Class 14.

584,322. Detergents and Ingredients Thereof. Ultra Chemical Works Inc., Paterson, N. J.
Filed Dec. 4, 1952, Serial No. 638,985. Published Oct. 13, 1953. Class 52.

584,323. Articles Made of a Flexible Material Having Properties of Rubber—Namely, Double Molded Cups, Etc. Sloan Valve Company, Chicago, Ill.
Filed Dec. 6, 1952, Serial No. 639,146. Published Oct. 20, 1953. Class 35.

584,324. Metal Cleaner and Polish, Silver Polish, Floor Wax, and Furniture Polish. Better Brushes, Incorporated, Palmer, Mass.
Filed Dec. 13, 1952, Serial No. 639,410. Published Oct. 13, 1953. Class 4.

584,325. Living Room Furniture—Namely, Sofas, Loveseats, Sectional Lovesents, Upholstered Chairs, Occasional Chairs, Hostess Chairs, Open Arm Chairs, Etc. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,500. Published Oct. 6, 1953. Class 32.

584,326. Sanitary Goods—Namely, Sanitary Pants, Perfume Atomizers, Sanitary Belts, Sanitary Napkins, and Manicure Sets Including Tweezers, Scissors, Nail Files, Cuticle Removers, and Orange Sticks. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,507. Published Sept. 22, 1953. Class 44.

584,327. Toilet Bowl Sanitizer—Namely, a Preparation Which Cleans, Disinfects, Deodorizes, and De-Scales Toilet Bowls. Hysan Products Company, Chicago, Ill.
Filed Dec. 19, 1952, Serial No. 639,756. Published Oct. 13, 1953. Class 52.

584,328. Sedative Preparation Comprising a Combination of Phenobarbital Sodium and Pentylenetetrazol. Strong Cobb & Company, Inc., Cleveland, Ohio.
Filed Dec. 19, 1952, Serial No. 639,791. Published Oct. 20, 1953. Class 18.

584,329. Deodorizing Powder. Malloy Laboratories, Inc., San Diego, Calif.
Filed Dec. 23, 1952, Serial No. 639,946. Published Sept. 22, 1953. Class 51.

584,330. Lapping or Grinding Compound, Which Is a Mixture of Abrasives Free From Oil and Other Lubricant, Etc. The Zip Abrasive Company, Cleveland, Ohio.
Filed Dec. 26, 1952, Serial No. 640,061. Published Oct. 13, 1953. Class 4.

584,331. Piece Goods of Cotton, Rayon, and Combinations Thereof. M. Lowenstein & Sons, Inc., New York, N. Y.
Filed Jan. 2, 1953, Serial No. 640,288. Published Oct. 6, 1953. Class 42.

584,332. Resinous Molding Compositions. Perrysburg Laboratories, Inc., Perrysburg, Ohio.
Filed Jan. 2, 1953, Serial No. 640,302. Published Sept. 22, 1953. Class 6.

584,333. Vitamin Preparation. Zerbst Pharmacal Company, Inc., St. Joseph, Mo.
Filed Jan. 5, 1953, Serial No. 640,369. Published Sept. 22, 1953. Class 18.

584,334. Calcite Preparation Consisting of Dry Ground Limestone Used in Dairy Barns as a Bedding for Cows and To Prevent Cows From Slipping. Harry T. Campbell Sons' Corp., Towson, Md.
Filed Jan. 12, 1953, Serial No. 640,605. Published Sept. 22, 1953. Class 1.

584,335. Linen Fabrics. Ben Druckerman & Company, Inc., New York, N. Y.
Filed Jan. 15, 1953, Serial No. 640,787. Published Oct. 6, 1953. Class 42.

584,336. Chemical Preparation for Use in Processing Textile Material Such as Cloth, Thread, and Yarn. Chas. S. Tanner Co., Providence, R. I.
Filed Jan. 28, 1953, Serial No. 641,477. Published Oct. 13, 1953. Class 6.

584,337. Oakum. American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y.
Filed Jan. 29, 1953, Serial No. 641,489. Published Sept. 22, 1953. Class 1.

584,338. Furniture—Namely, Cobblers' Benches. Atkinson-Davis Corporation, Claremont, N. H.
Filed Feb. 2, 1953, Serial No. 641,595. Published Oct. 6, 1953. Class 32.

584,339. Candy. Ruth Ann Engler, doing business as Ruth Ann Engler Candy Company, Phoenix, Ariz.
Filed Feb. 5, 1953, Serial No. 641,773. Published Sept. 29, 1953. Class 46.

584,340. Natural Sponges and Cellulose Sponges. John Sarant, doing business under the name of Shell Sponge Co., Brooklyn, N. Y.
Filed Feb. 9, 1953, Serial No. 641,974. Published Sept. 22, 1953. Class 1.

584,341. Leather in the Piece for Shoe Uppers. Eagle-Flagg Tanning Corporation, New York, N. Y.
Filed Feb. 10, 1953, Serial No. 642,023. Published Sept. 22, 1953. Class 1.

584,342. Dry Ground Native Clay. Magnet Cove Barium Corporation, Bellaire, Tex.
Filed Jan. 26, 1953, Serial No. 642,112. Published Sept. 15, 1953. Class 1.

584,343. Partial Dentures. Warren Laboratories, Baltimore, Md.
Filed Feb. 12, 1953, Serial No. 642,189. Published Oct. 20, 1953. Class 44.

584,344. Pressed Powder Make-Up. Revlon Products Corporation, New York, N. Y.
Filed Feb. 18, 1953, Serial No. 642,421. Published Oct. 13, 1953. Class 51.

584,345. Marine Type Paints and Varnishes. Thomas Van Yperen & Co., Fairlawn, N. J.
Filed Feb. 18, 1953, Serial No. 642,431. Published Oct. 6, 1953. Class 16.

584,346. Polish Sausage and Hot Sausage. Adolph Levis, trading as Cherry-Levis Food Products Company, Philadelphia, Pa.
Filed Feb. 19, 1953, Serial No. 642,481. Published Oct. 13, 1953. Class 46.

584,347. Combination of 100% Leather Fibres and a Saturant Latex. The Barash Company, Inc., New York, N. Y.
Filed Feb. 20, 1953, Serial No. 642,518. Published Sept. 15, 1953. Class 1.

584,348. Carbon Paper, Typewriter Ribbons, Writing Inks, and Ink for Pads. Inez T. McCabe, doing business as John McCabe & Co., New York, N. Y.
Filed Feb. 20, 1953, Serial No. 642,561. Published Oct. 6, 1953. Class 11.

584,349. Leather. William Amer Company, Philadelphia, Pa.
Filed Feb. 26, 1953, Serial No. 642,796. Published Sept. 22, 1953. Class 1.

584,350. Dentifrice-Containing Capsules. Simon Bly, Jr., New York, N. Y.
Filed Feb. 27, 1953, Serial No. 642,865. Published Oct. 13, 1953. Class 51.

584,351. Chemotherapeutic Agent for Treatment of Infection. Parke, Davis & Company, Detroit, Mich.
Filed Feb. 27, 1953, Serial No. 642,898. Published Oct. 13, 1953. Class 18.

584,352. Lamb Tongues. Adolph Levis, trading as Cherry-Levis Food Products Company, Philadelphia, Pa.
Filed Feb. 19, 1953, Serial No. 642,920. Published Oct. 13, 1953. Class 46.

584,353. Hot Sausage, Pigs Feet, Pigs Knuckles. Adolph Levis, trading as Cherry-Levis Food Products Company, Philadelphia, Pa.
Filed Feb. 19, 1953, Serial No. 642,921. Published Oct. 13, 1953. Class 46.

584,354. Children's Miniature Steering Wheel and Seat for Use in an Automobile. Statler Mfg. Co., Chicago, Ill.
Filed Mar. 2, 1953, Serial No. 643,001. Published Oct. 13, 1953. Class 19.

584,355. Upholstered Platform Rockers. Maxwell Royal Chair Co. Inc., Hickory, N. C.
Filed Mar. 10, 1953, Serial No. 643,430. Published Oct. 6, 1953. Class 32.

584,356. Girdles, Panty Girdles, Corselettes (Also Referred to as Combination or All-In-One Garments), Etc. Venus Foundation Garments, Inc., Chicago, Ill.
Filed Mar. 10, 1953, Serial No. 643,451. Published Oct. 6, 1953. Class 39.

584,357. Polyester Film. E. I. du Pont de Nemours and Company, Wilmington, Del.
Filed Mar. 11, 1953, Serial No. 643,473. Published Sept. 22, 1953. Class 1.

584,358. Polyethylene Film. E. I. du Pont de Nemours and Company, Wilmington, Del.
Filed Mar. 11, 1953, Serial No. 643,474. Published Sept. 22, 1953. Class 1.

584,359. Wood Flour. Holt Hardwood Company, Oconto, Wis.
Filed Mar. 11, 1953, Serial No. 643,490. Published Sept. 22, 1953. Class 1.

584,360. Blankets of Wool, Cotton, and Combinations Thereof, Bed Sheets, Cotton and Linen Sheeting, Pillow Cases, and Towels. Arkwright Merchandising Corporation, New York, N. Y.
Filed Mar. 12, 1953, Serial No. 643,531. Published Oct. 6, 1953. Class 42.

584,361. Pharmaceutical—Namely, a Xanthine Preparation Used Principally for the Treatment of Cardiac Disorders. G. D. Searle & Co., Skokie, Ill.
Filed Mar. 12, 1953, Serial No. 643,560. Published Sept. 29, 1953. Class 18.

584,362. Handball Gloves, Golf Gloves, Skiing Gloves, and Hunting Gloves. Lindfelt Glove Manufacturing Co., Des Moines, Iowa.
Filed Mar. 16, 1953, Serial No. 643,693. Published Oct. 6, 1953. Class 22.

584,363. Metallic Yarn. Facile Corporation, Paterson, N. J.
Filed Mar. 17, 1953, Serial No. 643,759. Published Oct. 6, 1953. Class 43.

584,364. Shampoo. The Procter & Gamble Company, Cincinnati, Ohio.
Filed Mar. 17, 1953, Serial No. 643,787. Published Oct. 6, 1953. Class 52.

584,365. Preparation for Increasing Diffusion and Adsorption of Parenteral Solutions. Mathieson Chemical Corporation, New York, N. Y.
Filed Mar. 18, 1953, Serial No. 643,846. Published Sept. 22, 1953. Class 18.

584,366. Metal Castings. The Arwood Precision Casting Corp., Brooklyn, N. Y.
Filed Mar. 19, 1953, Serial No. 643,886. Published Oct. 6, 1953. Class 14.

584,367. Art Needlework Picture Kits Consisting of Stamped Fabric and Trimmings To Be Used by the Customer in Completing Pictures. Bernhard Ulmann Co. Inc., Long Island City, N. Y.
Filed Mar. 19, 1953, Serial No. 643,929. Published Oct. 13, 1953. Class 40.

584,368. Piece Goods Made From Terry Cloth Formed From Cotton and/or Synthetic Fibers. Mooresville Mills, Inc., Mooresville, N. C.
Filed Mar. 23, 1953, Serial No. 644,052. Published Oct. 6, 1953. Class 42.

584,369. Antibiotics and Antibiotic Preparations. Merck & Co., Inc., Rahway, N. J.
Filed Mar. 24, 1953, Serial No. 644,129. Published Sept. 22, 1953. Class 18.

584,370. Nickel and Nickel Alloys. Vacuum Metals Corporation, Cambridge, Mass.
Filed Mar. 24, 1953, Serial No. 644,145. Published Oct. 6, 1953. Class 14.

584,371. Lyophilized Iodine in an Inert Base for Medicinal Purposes. Peyton Pharmacal Corporation, New York, N. Y.
Filed Mar. 25, 1953, Serial No. 644,189. Published Sept. 22, 1953. Class 18.

584,372. Ladies' House Dresses and Aprons. Perfection Frocks, Inc., New York, N. Y.
Filed Mar. 31, 1953, Serial No. 644,501. Published Oct. 6, 1953. Class 39.

584,373. Safety Pins. Tilton Industries, Inc., Montpelier, Vt.
Filed Apr. 3, 1953, Serial No. 644,696. Published Oct. 6, 1953. Class 40.

584,374. Couch Beds. Eclipse Sleep Products Inc., Brooklyn, N. Y.
Filed Apr. 7, 1953, Serial No. 644,834. Published Oct. 6, 1953. Class 32.

584,375. Cigars. Garcia & Vega, Inc., New York, N. Y.
Filed Apr. 9, 1953, Serial No. 644,972. Published Oct. 6, 1953. Class 17.

584,376. Furniture Leg Caps. The National Plastic Products Company, Odenton, Md.
Filed Apr. 10, 1953, Serial No. 645,052. Published Oct. 6, 1953. Class 32.

584,377. Water Repellent Finishing Agent for Use on Textiles and Leather. Fabric Chemicals Company, Jersey City, N. J.
Filed Apr. 14, 1953, Serial No. 645,237. Published Oct. 13, 1953. Class 6.

584,378. Electric Wringers, Hand-Operated Wringers, and Electric Washing Machines. Naxon Utilities Corporation, Chicago, Ill.
Filed Apr. 15, 1953, Serial No. 645,332. Published Oct. 13, 1953. Class 24.

584,379. Chair of Metal and Canvas. Richard M. Phillips, East Peoria, Ill.
Filed Apr. 15, 1953, Serial No. 645,335. Published Oct. 6, 1953. Class 32.

584,380. Typewriter Ribbons. John Underwood & Co., New York, N. Y.
Filed Apr. 15, 1953, Serial No. 645,354. Published Oct. 6, 1953. Class 11.

584,381. Typewriter Ribbons. John Underwood & Co., New York, N. Y.
Filed Apr. 15, 1953, Serial No. 645,355. Published Oct. 6, 1953. Class 11.

584,382. Thrown Yarn. Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C.
Filed Apr. 16, 1953, Serial No. 645,390. Published Oct. 13, 1953. Class 43.

584,383. Preparation for the Relief of Functional Constipation Due to Lack of Bulk in the Diet. The Viavi Company, San Francisco, Calif.
Filed Apr. 16, 1953, Serial No. 645,447. Published Oct. 13, 1953. Class 18.

584,384. Dietary Supplement Comprised of Vitamins and Minerals. The Viavi Company, San Francisco, Calif.
Filed Apr. 16, 1953, Serial No. 645,448. Published Oct. 13, 1953. Class 18.

584,385. Ready-Mixed Paint and Liquid Paint Enamel. Elliott Paint & Varnish Company, Chicago, Ill.
Filed Apr. 17, 1953, Serial No. 645,472. Published Oct. 6, 1953. Class 16.

584,386. Utility, Kitchen, and Bathroom Cabinets. Marian V. Lichtman, doing business as Marlite Co., Queens Village, N. Y.
Filed Apr. 21, 1953, Serial No. 645,653. Published Oct. 6, 1953. Class 32.

584,387. Bed Sheeting in the Piece; Upholstery Fabrics Made of Cotton, and Rayon; Bed Sheets; Pillow Cases; Bed Spreads; Comforters, and Blankets Made of Wool and Cotton, and Mixtures Thereof; Towels; Toweling in the Piece; Etc. Aldens, Inc., Chicago, Ill.
Filed Apr. 22, 1953, Serial No. 645,687. Published Oct. 6, 1953. Class 42.

584,388. Peat Moss for Horticultural Use as Fertilizer. European & Overseas Trading Company Gesellschaft mit beschränkter Haftung, Hamburg, Germany.
Filed Apr. 22, 1953, Serial No. 645,703. Published Oct. 13, 1953. Class 10.

584,389. Antibiotic Preparation for Veterinary Use. Allied Laboratories, Inc., Kansas City, Mo.
Filed Apr. 23, 1953, Serial No. 645,765. Published Oct. 20, 1953. Class 18.

584,390. Textile Fabrics of Cotton, Silk, and Synthetic Fibres and Combinations Thereof. Penco Fabrics, Inc., New York, N. Y.
Filed Apr. 23, 1953, Serial No. 645,829. Published Oct. 6, 1953. Class 42.

584,391. Textile Fabrics Woven of Plastic Yarn. K & L Auto Upholstering Company, Washington, D. C.
Filed Apr. 24, 1953, Serial No. 645,897. Published Oct. 6, 1953. Class 42.

584,392. Fluorescent Lamps, Incandescent Lamps, Fluorescent Starters, and Fluorescent Ballasts. Industrial Electronics Corporation, Newark, N. J.
Filed Apr. 30, 1953, Serial No. 646,216. Published Sept. 22, 1953. Class 21.

584,393. Frozen Prepared Food Product Consisting of Shortening, Eggs, Flour, Water, Italian Grated Cheese, Basil, and Black Pepper All Encased in Dough. Alfonso Cavy, doing business as Alfonso Cavy & Co., Chicago, Ill.
Filed May 4, 1953, Serial No. 646,364. Published Sept. 29, 1953. Class 46.

584,394. Thread. Coats & Clark Inc., New York, N. Y.
Filed May 5, 1953, Serial No. 646,456. Published Oct. 6, 1953. Class 43.

584,395. Apricot Preserves, Strawberry Preserves, Olives, Salad Olives, Salad Dressing, and Salted Peanuts. The Kroger Co., Cincinnati, Ohio.
Filed May 6, 1953, Serial No. 646,556. Published Sept. 29, 1953. Class 46.

584,396. Hose Made of Rubber or Rubber and Fabric. United States Rubber Company, New York, N. Y.
Filed May 7, 1953, Serial No. 646,636. Published Oct. 20, 1953. Class 35.

584,397. Inhaler for Use With Anesthetics. Ayerst, McKenna & Harrison Limited, New York, N. Y.
Filed May 12, 1953, Serial No. 646,843. Published Oct. 13, 1953. Class 44.

584,398. Fabrics of Cotton and of Synthetic Fibers, Including Rayon and Nylon, and Combinations Thereof. Joseph Bancroft & Sons Co., Wilmington, Del.
Filed May 14, 1953, Serial No. 646,978. Published Oct. 6, 1953. Class 42.

584,399. Rectal Suppositories; Cocoa Butter Capsules; a Preparation for Use in Massage, Etc. The Viavi Company, San Francisco, Calif.
Filed May 15, 1953, Serial No. 647,116. Published Oct. 13, 1953. Class 18.

584,400. Granulated Dog Food. Czarev Milling Co., Independence, Mo.
Filed May 18, 1953, Serial No. 647,165. Published Sept. 29, 1953. Class 46.

584,401. Woven Bolting Cloth in the Piece Made Wholly of Nylon Yarns or Nylon Single Filament, for Use in Sieving Powders and Granular Material and in Screen Printing. Courtaulds Limited, London, England.
Priority under Sec. 44(d). British Registration No. 712,950, filed Dec. 8, 1952.
Filed May 19, 1953, Serial No. 647,268. Published Oct. 6, 1953. Class 42.

584,402. Hypodermic Syringes. Becton, Dickinson and Company, Rutherford, N. J.
Filed May 25, 1953, Serial No. 647,586. Published Oct. 20, 1953. Class 44.

584,403. Pneumatic Tires. The General Tire & Rubber Company, Akron, Ohio.
Filed May 28, 1953, Serial No. 647,841. Published Oct. 20, 1953. Class 35.

584,404. Wheat Flour. International Milling Company, Minneapolis, Minn.
Filed June 24, 1953, Serial No. 649,306. Published Sept. 29, 1953. Class 46.

584,405. Playing Cards. The United States Playing Card Company, Cincinnati, Ohio.
Filed July 22, 1953, Serial No. 650,657. Published Oct. 13, 1953. Class 22.

584,406. Lipsticks and Liquid Creme Rouge. Hazel Bishop Inc., New York, N. Y.
Filed Mar. 26, 1952, Serial No. 627,042. Published Sept. 15, 1953. Class 51.

Service Marks

584,407. Compaction of Soils for Foundation and Construction Purposes. Sergey Steuerman, New York, N. Y.
Filed June 14, 1952, Serial No. 631,222. Published Oct. 6, 1953. Class 103.

584,408. Television Installation and Repair Services. Central Television Service Inc., Chicago, Ill.
Filed Aug. 29, 1952, Serial No. 634,631. Published Oct. 6, 1953. Class 103.

584,409. Applying a Glazed Finish Which Endures Through Repeated Laundering to Fabrics Furnished by Others. Sayles Finishing Plants, Inc., Saylesville, R. I., and New York, N. Y.
Filed Oct. 1, 1952, Serial No. 636,036. Published Oct. 6, 1953. Class 106.

584,410. Services Comprising Selling for Others Various Goods as Agent. McMillen-Stanley Sales Corporation, San Francisco, Calif.
Filed Nov. 25, 1952, Serial No. 638,594. Published Sept. 29, 1953. Class 101.

584,411. Merchandising Service Rendered to Merchants and Their Customers Involving the Use of Trading Stamps for Inducing the Purchasing Public To Pay Cash. Thrifty Stamp Co., Milwaukee, Wis.
Filed Dec. 19, 1952, Serial No. 639,794. Published Sept. 29, 1953. Class 101.

584,412. Transportation of Cargo and Passengers by Aircraft. Southwest Airways Company, San Francisco and South San Francisco, Calif.
Filed Jan. 23, 1953, Serial No. 641,216. Published Sept. 29, 1953. Class 105.

584,413. Promoting Sales of Clients' Merchandise Through the Means of Trading Stamps Which Are Redeemable in Merchandise, Cash, or Premiums. Gold Bond Stamp Company, Minneapolis, Minn.
Filed Feb. 4, 1953, Serial No. 641,720. Published Sept. 29, 1953. Class 101.

584,414. Informational Service Rendered Through the Medium of a Radio and Television Program Consisting of Youth Forum Discussions. New York Herald Tribune Inc., New York, N. Y.
Filed Mar. 20, 1953, Serial No. 643,972. Published Oct. 13, 1953. Class 107.

584,415. Electroplating New and Re-Electroplating Used Tips of Electrically Heated Welding and Soldering Devices. Electro-Lab Processes, Inc., Cincinnati, Ohio.
Filed Jan. 12, 1952, Serial No. 623,505. Published Oct. 13, 1953. Class 106.

Collective Mark

584,416. Establishment and Maintenance of Membership in a National Patriotic Organization and Furthering the Ideals Thereof. The Liberty Belles Incorporated, New York, N. Y.
Filed Jan. 14, 1953, Serial No. 640,746. Published Sept. 29, 1953. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

584,417. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) The Abel Corporation, Columbus, Ohio. Original filed, act of 1946, Principal Register, Sept. 13, 1949; amended to application, Supplemental Register, Oct. 15, 1951, Serial No. 584,740.



The words "Robe" and "Case" are disclaimed.
For Woolen Robes for the Lap and General Use Sold in Special Cases.
Claims use since Sept. 1, 1947.

584,418. (Class 16. Protective and Decorative Coatings.) Frank H. Re Cupido, doing business as Professional Art Products Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 7, 1950; amended to application, Supplemental Register, July 12, 1952, Serial No. 595,414.

Professional COLOR-CRAFT

For Artists' Materials—Namely, Artists' Tempera Paint Colors.
Claims use since Mar. 24, 1950.

584,419. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Texas Textile Mills, Dallas, Tex. Original filed, act of 1946, Principal Register, Jan. 8, 1951; amended to application, Supplemental Register, July 24, 1953, Serial No. 608,520.

McKinney

For Piece Goods—Namely, Denims, Coverts, Whipcords, Ticking, Drills, Twills, Sheetings, Suitings. All Woven From Cotton Fibers.
Claims use since Nov. 29, 1950.

584,420. (Class 39. Clothing.) John R. Craighead Company Incorporated, Denver, Colo. Original filed, act of 1946, Principal Register, Apr. 16, 1951; amended to application, Supplemental Register, Sept. 21, 1953, Serial No. 612,683.

Made in the Heart of the West

For Boys' and Men's Western Belts.
Claims use since Aug. 31, 1939.

584,421. (Class 39. Clothing.) Imperial Brassiere Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 25, 1951; amended to application, Supplemental Register, Mar. 10, 1953, Serial No. 613,131.

FIRM 'N' FREE

For Brassières, Bandeaux, and Girdles.
Claims use since Apr. 12, 1951.

584,422. (Class 2. Receptacles.) Ivers-Lee Company, Newark, N. J. Original filed, act of 1946, Principal Register, Apr. 27, 1951; amended to application, Supplemental Register, Aug. 31, 1953, Serial No. 613,225.

CRIMP-LOC

For Envelope-Like Sealed Containers Made of Two Opposed Layers of Sheet Material, Such as Cellophane, Metal Foil, or Rubber Hydrochloride, Thermoplastically Sealed Together To Form a Compartment or Compartments for the Article or Substance in the Form of Pills, Tablets, Creams, or Powder To Be Packaged, and Enclosed Within a Folded Paper Cover, the Envelope-Like Sealed Containers Being Made and Filled by the Applicant for Manufacturers Who Forward the Contents of the Containers to Applicant for Packaging.
Claims use since Mar. 7, 1951.

584,423. (Class 40. Fancy Goods, Furnishings, and Notions.) Sta-Rite Ginnie-Lou, Inc., Shelbyville, Ill. Original filed, act of 1946, Principal Register, July 27, 1951; amended to application, Supplemental Register, July 3, 1952, Serial No. 617,062.

Cushion Tip

For Bobby Pins.
Claims use since June 29, 1951.

584,424. (Class 28. Jewelry and Precious-Metal Ware.) Premium Trading Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 29, 1951; amended to application, Supplemental Register, June 11, 1953, Serial No. 618,215.

Premium

For Pearls, Sold as Such.
Claims use since Feb. 20, 1951.

584,425. (Class 1. Raw or Partly Prepared Materials.) Valentine E. Lidecker, doing business as Budd's Auto Service, Chicago, Ill. Original filed, act of 1946, Principal Register, Oct. 31, 1951; amended to application, Supplemental Register, Sept. 30, 1953, Serial No. 620,736.

BUDD'S GRIPS-ICE

For Mixtures of Sand and Salt, Placed in Bags, and Used To Prevent Slipping of Automobile Wheels on Ice and Snow.
Claims use since Jan. 16, 1950.

584,426. (Class 44 Dental, Medical, and Surgical Appliances.) Protective Lining Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 28, 1951; amended to application, Supplemental Register, Feb. 19, 1953, Serial No. 621,782.

TWIN-PAD

For Hermetically Sealed Bag Containing Chemicals for Producing Hot or Cold Packs and Used for Therapeutical Purposes.
Claims use since September 1951.

584,427. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) E. S. Vihon Company, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Dec. 7, 1951; amended to application, Supplemental Register, Sept. 10, 1953, Serial No. 622,235.

Mastercraft

For Personal Leather Goods—Namely, Billfolds, Wallets, Pocketbooks, Pocket Secretaries, Card Cases, Pass Cases, Key Cases, Purses, Change Purses, and Portfolios.
Claims use since Nov. 26, 1951.

584,428. (Class 14. Metals and Metal Castings and Forgings.) Ohio Ferro-Alloys Corporation, Canton, Ohio. Original filed, act of 1946, Principal Register, Dec. 29, 1951; amended to application, Supplemental Register, June 24, 1953, Serial No. 623,009.

CHROM-ADD

For Chrome-Silicon Ladle Addition.
Claims use since Nov. 7, 1951.

584,429. (Class 39. Clothing.) Wayne Knitting Mills, Fort Wayne, Ind. Original filed, act of 1946, Principal Register, Mar. 11, 1952; amended to application, Supplemental Register, Sept. 30, 1953, Serial No. 626,278.

LEG-SIZE STOCKINGS FOR LEG-WISE WOMEN

For Women's Hosiery.
Claims use since October 1945.

584,430. (Class 39. Clothing.) Thurman Manufacturing Company, Philadelphia, Pa. Original filed, act of 1946. Principal Register, Mar. 20, 1952; amended to application, Supplemental Register, Feb. 25, 1953, Serial No. 626,761.

Shrug by THURMAN

The term "Shrug" is disclaimed.
For Boleros.
Claims use since Feb. 18, 1952.

584,431. (Class 28. Jewelry and Precious-Metal Ware.) Olin Industries, Inc., New Haven, Conn. Original filed, act of 1946, Principal Register, Mar. 28, 1952; amended to application, Supplemental Register, Oct. 14, 1953, Serial No. 627,213.

WINCHESTER

For Buttons and Cuff Links, Wholly or Partly Plated With Precious Metal.
Applicant claims ownership of Registrations Nos. 47,094; 49,699, and others.
Claims use since October 1950.

584,432. (Class 28. Jewelry and Precious-Metal Ware.) Olin Industries, Inc., New Haven, Conn. Original filed, act of 1946, Principal Register, Mar. 28, 1952; amended to application, Supplemental Register, Oct. 14, 1953, Serial No. 627,214.

SUPER SPEED

For Buttons and Cuff Links, Wholly or Partly Plated With Precious Metal.
Applicant claims ownership of Registrations Nos. 530,145 and 580,228.
Claims use since October 1950.

584,433. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Stoffel & Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 2, 1952; amended to application, Supplemental Register, June 25, 1953, Serial No. 627,470.

"Reversatin"

For Cotton Fabrics in the Piece.
Claims use since Jan. 22, 1952.

584,434. (Class 39. Clothing.) S. Augstein & Co., Inc., College Point, N. Y. Original filed, act of 1946, Principal Register, June 5, 1952; amended to application, Supplemental Register, June 24, 1953, Serial No. 630,748.

waistbanders

For Children's Shorts, Slacks, Pedal Pushers, Bathing Suits, Skirts, Jackets, Blouses.
Claims use since on or about Mar. 24, 1952.

584,435. (Class 39. Clothing.) Ripon Knitting Works, Ripon, Wis. Original filed, act of 1946, Principal Register, June 24, 1952; amended to application, Supplemental Register, June 18, 1953, Serial No. 631,689.

SOK - PAK

For Men's Athletic Socks and Knitted Socks With Leather Soles Sold in a Plastic Envelope.
Claims use since Apr. 29, 1952.

584,436. (Class 39. Clothing.) Ladd Hosiery Mills, Inc., Reading, Pa. Original filed, act of 1946, Principal Register, July 1, 1952; amended to application, Supplemental Register, June 1, 1953, Serial No. 632,035.

Sheer Point

For Hosiery for Women and Girls.
Claims use since May 12, 1952.

584,437. (Class 29. Brooms, Brushes, and Dusters.) Ralph E. Grossman, doing business as Picture Craft Co., Decatur, Ill. Filed July 19, 1952, Serial No. 632,785.

4-n-1

For Artists' and Signwriters' Brushes for Illustrating and Lettering.
Claims use since Mar. 2, 1951.

584,438. (Class 38. Prints and Publications.) D. D. S. Publishing Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, July 21, 1952; amended to application, Supplemental Register, May 7, 1953, Serial No. 632,829.

A DIGEST OF DENTAL SCIENCE

For Periodical Publication.
Claims use since Apr. 22, 1952.

584,439. (Class 5. Adhesives.) Irving Benson, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Aug. 7, 1952; amended to application, Supplemental Register, Sept. 21, 1953, Serial No. 633,563.

NEO DERME

For Latex Rubber Coating for Coating and Reinforcing Fur Skins.
Claims use since July 24, 1952.

584,440. (Class 6. Chemicals and Chemical Compositions.) Hopkins Agricultural Chemical Co., Madison, Wis. Original filed, act of 1946, Principal Register, Aug. 14, 1952; amended to application, Supplemental Register, July 24, 1953, Serial No. 633,934.

RATIUNNL

For Rodenticides Sold in a Trap-Like Collapsible Carton.
Claims use since Mar. 24, 1952.

584,441. (Class 16. Protective and Decorative Coatings.) The Striplastic Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Sept. 16, 1952; amended to application, Supplemental Register, Aug. 14, 1953, Serial No. 635,332.

STRIPLASTIC

The drawing is lined for shading purposes only.
For Resinous Plastic Solutions, With or Without Pigments, for Protective Coatings on Metallic Surfaces During Fabrication and/or Storage, To Prevent Corrosion and Abrasion of Highly Polished Surfaces.
Claims use since Sept. 20, 1947.

584,442. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Paca Manufacturing Company, Inc., Baltimore, Md. Original filed, act of 1946, Principal Register, Sept. 19, 1952; amended to application, Supplemental Register, Oct. 7, 1953, Serial No. 635,490.

RESISTAINS

For Cotton, Wool, Linen, and Synthetic Fabrics Used for Slip Covers and Draperies.
Claims use since Sept. 11, 1952.

584,443. (Class 19. Vehicles.) Supersite Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 30, 1952; amended to application, Supplemental Register, Oct. 1, 1953, Serial No. 635,957.

GARD-A-DOR

For Bumpers for Automobile Doors.
Claims use since Sept. 10, 1952.

584,444. (Class 38. Prints and Publications.) Simmons-Boardman Publishing Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 3, 1952; amended to application, Supplemental Register, Oct. 23, 1953, Serial No. 636,150.

RAILWAY LOCOMOTIVES AND CARS

For Monthly Magazine.
Claims use since Sept. 12, 1952.

584,445. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Glen Raven Cotton Mills, Inc., Glen Raven, N. C. Original filed, act of 1946, Principal Register, Oct. 10, 1952; amended to application, Supplemental Register, Sept. 28, 1953, Serial No. 636,474.

Vinyltone

For Vinyl Coated Awning and Upholstery Fabrics of Cotton.
Applicant claims ownership of Registration No. 279,711.
Claims use since July 1952.

584,446. (Class 39. Clothing.) Steinberg Bros., New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 21, 1952; amended to application, Supplemental Register, Aug. 21, 1953, Serial No. 636,947.

MacKnight

For Men's Wear—Namely, Hosiery, Sweaters, Gloves, Neckties, Scarves, Sport Coats, Outer Shirts, and Polo Shirts.
Claims use since on or about July 21, 1952.

584,447. (Class 32. Furniture and Upholstery.) Hadley Finsterwald Company, Detroit, Mich. Original filed, act of 1946, Principal Register, Oct. 23, 1952; amended to application, Supplemental Register, Oct. 15, 1953, Serial No. 637,048.

3 CAN SLEEP

For Furniture Set Including a Lounge Chair and Ottoman Openable Into a Single Adult Bed and a Sofa Bed Openable Into a Two Adult Bed.
Claims use since Dec. 3, 1948.

584,448. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) Chicago Specialty Manufacturing Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 14, 1952; amended to application, Supplemental Register, Oct. 22, 1953, Serial No. 638,063.



For Faucet Bibb Washers.
Applicant claims ownership of Registration No. 545,395.
Claims use since Oct. 10, 1952.

584,449. (Class 38. Prints and Publications.) Orlando Daily Newspapers, Inc., Orlando, Fla. Original filed, act of 1946, Principal Register, Dec. 2, 1952; amended to application, Supplemental Register, Sept. 28, 1953, Serial No. 638,869.

FLORIDA magazine

For Sunday Newspaper Supplement.
Claims use since Aug. 3, 1952.

584,450. (Class 39. Clothing.) L. Greif & Bro., Inc., Baltimore, Md. Original filed, act of 1946, Principal Register, Dec. 12, 1952; amended to application, Supplemental Register, Oct. 13, 1953, Serial No. 639,368.

CANBERRA

For Men's Suits, Topcoats, Overcoats, Slacks, Sport Coats, and Jackets.
Claims use since Sept. 5, 1952.

584,451. (Class 39. Clothing.) L. Greif & Bro., Inc., Baltimore, Md. Original filed, act of 1946, Principal Register, Jan. 7, 1953; amended to application, Supplemental Register, Oct. 13, 1953, Serial No. 640,454.

Dungannon

The drawing is lined for green and gold.
For Men's Suits, Topcoats, Overcoats, Slacks, Sport Coats, and Jackets.
Claims use since Sept. 5, 1952.

584,452. (Class 39. Clothing.) L. Greif & Bro., Inc., Baltimore, Md. Original filed, act of 1946, Principal Register, Jan. 7, 1953; amended to application, Supplemental Register, Oct. 13, 1953, Serial No. 640,455.

Spun Silver

For Men's Suits, Topcoats, Overcoats, Slacks, Sport Coats, and Jackets.
Claims use since Sept. 5, 1952.

584,453. (Class 29. Brooms, Brushes, and Dusters.) Duotone Company, Inc., Keyport, N. J. Original filed, act of 1946, Principal Register, Jan. 14, 1953; amended to application, Supplemental Register, Sept. 10, 1953, Serial No. 640,729.

ELECTRO-WIPE

For Chemically Treated Cloths for Removing Static Charges From Phonograph Records.
Claims use since May 1952.

584,454. (Class 38. Prints and Publications.) Lane Publishing Co., Menlo Park, Calif. Original filed, act of 1946, Principal Register, Jan. 15, 1953; amended to application, Supplemental Register, Oct. 9, 1953, Serial No. 641,114.

Travel Preview

For Monthly Magazine.
Claims use since February 1952.

584,455. (Class 38. Prints and Publications.) Lane Publishing Co., Menlo Park, Calif. Original filed, act of 1946, Principal Register, Feb. 9, 1953; amended to application, Supplemental Register, Oct. 9, 1953, Serial No. 641,935.

GARDEN PREVIEW

For Monthly Magazine.
Claims use since Feb. 10, 1950.

584,456. (Class 6. Chemicals and Chemical Compositions.) Zola Products Co., Inc., Miami, Fla. Original filed, act of 1946, Principal Register, Mar. 4, 1953; amended to application, Supplemental Register, July 6, 1953, Serial No. 643,132.

ZOLA
NO-STIK
POWDER

For Powder Having Hygroscopic Qualities.
Claims use since Feb. 11, 1951.

584,457. (Class 39. Clothing.) Streamline Garment Corp., Chicago, Ill. Original filed, act of 1946, Principal Register, May 26, 1953; amended to application, Supplemental Register, Oct. 14, 1953, Serial No. 647,727.

Fashion-Eze

For Ladies' Dresses.
Claims use since on or about Oct. 4, 1952.

584,458. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Lincoln Fabrics Co. Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 28, 1953; amended to application, Supplemental Register, Sept. 23, 1953, Serial No. 647,855.

a Wale of satisfaction

For Corduroy Piece Goods of Cotton and Rayon.
Claims use since August 1952.

584,459. (Class 49. Distilled Alcoholic Liquors.) Societe Anonyme de la Benedictine, Distillerie de la Liqueur de l'Ancienne Abbaye de Fecamp, Fecamp (Seine Inferieure), France. Original filed, act of 1946, Principal Register, July 28, 1949; amended to application, Supplemental Register, July 22, 1952, Serial No. 582,655.



The representation of the bottle appears in the drawing only to illustrate how the mark is displayed upon same, and is disclaimed per se. Applicant claims ownership of French Registration No. 1,579, dated Apr. 22, 1949.

For Alcoholic Liqueur Containing Benedictine and Brandy.

Claims use since 1939 in France; and first used in commerce between France and the United States in 1937.

TRADE-MARK REGISTRATIONS RENEWED

93,644. ROWNTREE. Registered Oct. 7, 1913. Rowntree & Company Limited, York, England, a limited liability company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Re-renewed Oct. 7, 1953. Cocoas, Cocoa Essence, Block Chocolate for Confectioners; Sweet Chocolate; Etc. Class 46.

93,973. "KING COLE" AND DESIGN. Registered Oct. 28, 1913. Emily D. Day. Re-renewed Oct. 28, 1953, to General Foods Corporation, New York, N. Y., a corporation of Delaware. Figs, Dried Fruits, and Nuts. Class 46.

93,991. "TARBELLS" AND DESIGN. Registered Oct. 28, 1913. W. Ewing Harvey, Baltimore, Md., assignor to Corkran, Hill & Co. Re-renewed Oct. 28, 1953, to Swift & Company, Chicago, Ill., a corporation of Illinois. Cheese. Class 46.

94,859. "A" WITHIN CIRCLE. Registered Jan. 13, 1914. Armstrong Cork Company, Pittsburgh, Pa. Re-renewed Jan. 13, 1954, to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania. Linoleum. Class 20.

94,911. ARROW. Registered Jan. 13, 1914. Keystone Steel & Wire Company, South Bartonville, Ill. Re-renewed Jan. 13, 1954, to Keystone Steel & Wire Company, Peoria, Ill., a corporation of Illinois. Barbed Wire. Class 13.

94,934. PRESCO. Registered Jan. 13, 1914. The Preservaline Manufacturing Co., Brooklyn, N. Y. Re-renewed Jan. 13, 1954, to Preservaline Manufacturing Company, Flemington, N. J., a corporation of New York. Food Preservatives, Antiseptics, Disinfectants, Germicides, Boiler Compounds, and Food Colors. Class 46.

95,285. "ATLAS" ETC. AND DESIGN. Registered Feb. 10, 1914. Atlas Powder Company, Wilmington, Del., a corporation of Delaware. Re-renewed Feb. 10, 1954. Powder, Dynamite, and Blasting Caps. Class 9.

306,151. "UNIVERSAL" AND DESIGN. Registered Sept. 12, 1933. Landers, Frary & Clark, Hartford, and New Britain, Conn. Renewed Sept. 12, 1953, to Landers, Frary & Clark, New Britain, Conn., a corporation of Connecticut. Electrically-Heated Chafing-Dishes, Coffee-Percolators, Coffee-Machines, Etc. Class 21.

306,372. THE STETSON UPSWING. Registered Sept. 19, 1933. John B. Stetson Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Sept. 19, 1953. Men's and Boys' Felt and Straw Hats and Cloth Caps, Men's Silk Hats, Etc. Class 39.

306,462. PERLETTE. Registered Sept. 19, 1933. Colonial Mills, Inc. Renewed Sept. 19, 1953, to Robbins Mills, Inc., New York, N. Y., a corporation of New York. Rayon Crepe in the Piece. Class 42.

306,595. "BANCO-SUPER-SHRUNK." Registered Sept. 26, 1933. Joseph Bancroft & Sons Co., Wilmington, Del., a corporation of Delaware. Renewed Sept. 26, 1953. Cotton Piece Goods. Class 42.

306,727. BLUE VALLEY. Registered Sept. 26, 1933. Blue Valley Creamery Company. Renewed Sept. 26, 1953, to Beatrice Foods Co., Chicago, Ill., a corporation of Delaware. French, Mayonnaise, Salad and Thousand Island Dressings, and Sandwich Spread. Class 46.

306,736. "GLEN MORAY" ETC. AND DESIGN. Registered Sept. 26, 1933. Macdonald & Muir. Renewed Sept. 26, 1953, to Macdonald & Muir Limited, Leith, Scotland, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Scotch Whisky. Class 49.

306,785. REPRESENTATION OF SUN ETC. Registered Sept. 26, 1933. Melvin Ryder. Renewed Sept. 26, 1953, to Happy Days Publishing Company, Washington, D. C., a corporation of Delaware. Weekly Newspaper. Class 38.

306,790. HAPPY DAYS. Registered Sept. 26, 1933. Melvin Ryder. Renewed Sept. 26, 1953, to Happy Days Publishing Company, Washington, D. C., a corporation of Delaware. Weekly Newspaper. Class 38.

306,965. ORTH ALETIC. Registered Oct. 10, 1933. The Bay Company, Bridgeport, Conn. Renewed Oct. 10, 1953, to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan. Adhesive Plaster. Class 44.

306,970. CALTASE. Registered Oct. 10, 1933. Parke, Davis & Company, Detroit, Mich., a corporation of Michigan. Renewed Oct. 10, 1953. Digestant and Antacid. Class 18.

306,975. "WINGED 70" ETC. AND DESIGN LINED FOR ORANGE. Registered Oct. 10, 1933. Johnson Oil Refining Company, Chicago, Ill., a corporation of Delaware. Renewed Oct. 10, 1953. Gasoline. Class 15.

307,034. BAGPAK. Registered Oct. 10, 1933. Bagpak, Inc. Renewed Oct. 10, 1953, to International Paper Company, New York, N. Y., a corporation of New York. Paper Bags. Class 2.

307,046. ZERO. Registered Oct. 10, 1933. Standard Fuel Engineering Company, Detroit, Mich., a corporation of Michigan. Renewed Oct. 10, 1953. Refractory Material in a Dry Form—Namely, High Temperature Cement, Refractory Bonding Material, Etc. Class 12.

307,055. "LOSANA TROKIES" AND DESIGN. Registered Oct. 10, 1933. Losana Products, Ltd., Los Angeles, Calif., a corporation of California. Renewed Oct. 10, 1953. Antacid Medicinal Preparation for the Treatment of Hyperacidity. Class 18.

307,107. NUIT D'AVION. Registered Oct. 17, 1933. E. Daltroff & Cie., doing business as Parfumerie Caron, Paris, France. Renewed Oct. 17, 1953, to Caron Corporation, New York, N. Y., a corporation of New York. Perfumes, Toilet Waters, Face and Toilet Powders, Powder and Rouge Compacts, Etc. Class 51.

307,113. "PRO-PHY-LAC-TIC" ETC. AND REPRESENTATION OF CARTON LINED FOR RED AND YELLOW. Registered Oct. 17, 1933. Pro-phy-lac-tic Brush Company. Renewed Oct. 17, 1953, to The Lambert Company, Northampton, Mass., a corporation of Delaware. Tooth Brushes. Class 29.

307,184. "WHITE PRINCE" AND DESIGN. Registered Oct. 17, 1933. International Milling Company, Minneapolis, Minn., a corporation of Delaware. Renewed Oct. 17, 1953. Wheat Flour. Class 46.

307,457. COMSOL. Registered Oct. 24, 1933. Commercial Solvents Corporation, New York, N. Y. Renewed Oct. 24, 1953, to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland. Ethyl Alcohol and Grain Alcohol. Class 49.

307,619. ZERO. Registered Oct. 31, 1933. Standard Fuel Engineering Company, Detroit, Mich., a corporation of Michigan. Renewed Oct. 31, 1953. Brick and Tile Formed of Refractory Material. Class 12.

307,665. STRANZIT. Registered Oct. 31, 1933. Pro-phy-lac-tic Brush Company. Renewed Oct. 31, 1953, to The Lambert Company, Northampton, Mass., a corporation of Delaware. Hair Brushes. Class 29.

308,115. PERMA-GRIP. Registered Nov. 21, 1933. Pro-phy-lac-tic Brush Company. Renewed Nov. 21, 1953, to The Lambert Company, Northampton, Mass., a corporation of Delaware. Tooth Brushes and Hair Brushes. Class 29.

308,196. SUNSHINE NOBILITY. Registered Nov. 21, 1933. Loose-Wiles Biscuit Company. Renewed Nov. 21, 1953, to Sunshine Biscuits, Inc., Long Island City, N. Y., a corporation of New York. Bakery Products—Namely, English Style Biscuits, Etc. Class 46.

308,481. COMSOL. Registered Dec. 5, 1933. Commercial Solvents Corporation, New York, N. Y. Renewed Dec. 5, 1953, to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland. Denatured Alcohol. Class 6.

308,506. LES ROCAILLES DE CARON. Registered Dec. 5, 1933. E. Daltroff & Cie., doing business as Parfumerie Caron, Paris, France. Renewed Dec. 5, 1953, to Caron Corporation, New York, N. Y., a corporation of New York. Perfumes, Toilet Waters, Face and Toilet Powders, Powder and Rouge Compacts, Etc. Class 51.

309,103. SNOOZIE. Registered Jan. 2, 1934. Ideal Novelty & Toy Co., Brooklyn, N. Y. Renewed Jan. 2, 1954, to Ideal Toy Corporation, Hollis, N. Y., a corporation of New York. Dolls. Class 22.

309,248. ELECTRUNITE. Registered Jan. 9, 1934. Steel and Tubes, Inc. Renewed Jan. 9, 1954, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey. Boiler and Condenser Tubes. Class 34.

309,865. "STE PIERRE SMIRNOFF" ETC. AND DESIGN. Registered Feb. 6, 1934. Ste Pierre Smirnoff Fls, Incorporated, New York, N. Y. Renewed Feb. 6, 1954, to Ste Pierre Smirnoff Fls, Incorporated, Hartford, Conn., a corporation of Connecticut. Non-Alcoholic, Maltless Fruit Juices Sold as Soft Drinks. Class 45.

310,201. REGULETS. Registered Feb. 13, 1934. Foster-Milburn Company, Buffalo, N. Y., a corporation of New York. Renewed Feb. 13, 1954. Laxatives. Class 18.

310,399. "CLUB" AND DESIGN LINED FOR ROSE AND BLUE. Registered Feb. 27, 1934. Club Razor & Blade Mfg. Corp., Newark, N. J., a corporation of New Jersey. Renewed Feb. 27, 1954. Razor Blades. Class 23.

310,767. ROXITE. Registered Mar. 6, 1934. Norfolk Paint & Varnish Company, Quincy and Atlantic, Mass. Renewed Mar. 6, 1954, to Norfolk Paint & Varnish Co., Quincy, Mass., a corporation of Massachusetts. Ready-Mixed Paints, Paint Enamels, and Varnishes. Class 16.

310,779. "CONSTITUTION" AND DESIGN. Registered Mar. 6, 1934. Frances Citrus Association, Santa Ana, Calif., a corporation of California. Renewed Mar. 6, 1954. Fresh Oranges. Class 46.

311,053. "RUBY" AND DESIGN LINED FOR GREEN AND RED. Registered Mar. 13, 1934. Empire Twine and Yarn Co., Inc., New York, N. Y., a corporation of New York. Renewed Mar. 13, 1954. Twine and Cordage Made of Cotton, Hemp, Flax, Linen, Jute, Etc. Class 7.

311,092. "WEBB'S COTTON" ETC. AND DESIGN. Registered Mar. 13, 1934. Robert James Andrew Webb, Union City, Okla. Renewed Mar. 13, 1954. Cotton Seed. Class 1.

311,163. ACME. Registered Mar. 13, 1934. American Hard Rubber Company, Hempstead, and New York, N. Y. Renewed Mar. 13, 1954, to American Hard Rubber Company, New York, N. Y., a corporation of New York. Hard Rubber Combs for Dressing, Ornamenting, and Cleaning the Hair. Class 40.

311,169. BLACKWING. Registered Mar. 13, 1934. Eberhard Faber Pencil Company, Brooklyn, N. Y., a corporation of New York. Renewed Mar. 13, 1954. Pencils. Class 37.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

310,480. "BIG NICKEL" AND DESIGN. Registered Feb. 27, 1934. Frozen Confections, Inc., New York, N. Y. Frozen Confections, Etc. Class 46. Amended as follows: In the statement, column 2, lines 4, 5, 6, 7, and 8 are deleted; and the drawing is amended to appear as follows:

Big NICKEL

511,055. AMERGORA. Registered June 14, 1949. American Woolen Company, New York, N. Y. Piece Goods Comprising a Mixture of Wool and Mohair. Class 42. Amended as follows: In the statement, line 8, "mohair" is deleted and *rabbits' hair* is inserted in lieu thereof; in line 18, '"Amergora"' is deleted and *AMER-GORA* is inserted in lieu thereof; and the drawing is amended to appear as follows:

AMER-GORA

577,325. SOLAR. Registered July 14, 1953. Solar Electric Corporation, Warren, Pa. Electric Incandescent Lamps, Electric Wire Connectors, Etc. Class 21. Corrected as follows:

Solar

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 404,402. Registered Nov. 23, 1943. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

H-9 EXTRA

The word "Extra" is disclaimed apart from the mark shown.

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since early in the year 1924.

Reg. No. 416,984. Registered Oct. 9, 1945. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

NO. 484

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since Mar. 24, 1942.

Reg. No. 416,985. Registered Oct. 9, 1945. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

NO. 610

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since Mar. 24, 1942.

Reg. No. 416,986. Registered Oct. 9, 1945. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

NO. 883

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since Mar. 24, 1942.

Reg. No. 416,987. Registered Oct. 9, 1945. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

VEGA

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since Apr. 3, 1944.

Reg. No. 420,263. Registered Apr. 2, 1946. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

NO. 11 SPECIAL

The word "Special" is disclaimed apart from the mark as shown.

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since at least 1907.

Reg. No. 432,491. Registered Sept. 2, 1947. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

DIOK

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since August 1929.

Reg. No. 440,428. Registered Aug. 31, 1948. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

D.Y.O.

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since 1935.

Reg. No. 441,733. Registered Dec. 28, 1948. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

UNIVERSAL D.R.

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since 1919.

Reg. No. 443,627. Registered Dec. 13, 1949. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

VSM STEEL

The word "Steel" is disclaimed apart from the mark as shown.

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since 1933.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 41,413. Registered Nov. 3, 1903. (Classified in Class 51.) Lambert Pharmacal Company, St. Louis, Mo. Republished by The Lambert Company, St. Louis, Mo., a corporation of Delaware.

See this number in Class 51 for goods and mark.

Claims use since May 1, 1881.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 435,746. Registered Jan. 6, 1948. Bendix Aviation Corporation, doing business as Eclipse-Pioneer Division, Teterboro, N. J., a corporation of Delaware. Republished by registrant.

CONVECTRON

For Tubes Enclosing Heater Elements Surrounded by a Fluid Medium, in Which Variations in the Convection Currents in the Fluid Medium Changes the Ohmic Value of the Elements.

Claims use since Sept. 9, 1946.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Reg. No. 222,635. Registered Jan. 4, 1927. The Wooster Brush Company, Wooster, Ohio, a corporation of Ohio. Republished by registrant.

OLD TRUSTY

For Paint Brushes.

Claims use since about Apr. 1, 1926.

Reg. No. 222,637. Registered Jan. 4, 1927. The Wooster Brush Company, Wooster, Ohio, a corporation of Ohio. Republished by registrant.

LONG BOY

For Paint Brushes.

Claims use since about Apr. 1, 1926.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 437,113. Registered Mar. 9, 1948. Hardwick Stove Company, Cleveland, Tenn., a corporation of Delaware. Republished by registrant.

EFFLEX

For Gas Ranges and Gas Stoves and Parts Thereof.

Claims use since May 1933.

311,163. ACME. Registered Mar. 13, 1934. American Hard Rubber Company, Hempstead, and New York, N. Y. Renewed Mar. 13, 1954, to American Hard Rubber Company, New York, N. Y., a corporation of New York. Hard Rubber Combs for Dressing, Ornamenting, and Cleaning the Hair. Class 40.

311,169. BLACKWING. Registered Mar. 13, 1934. Eberhard Faber Pencil Company, Brooklyn, N. Y., a corporation of New York. Renewed Mar. 13, 1954. Pencils. Class 37.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

310,480. "BIG NICKEL" AND DESIGN. Registered Feb. 27, 1934. Frozen Confections, Inc., New York, N. Y. Frozen Confections, Etc. Class 46. Amended as follows: In the statement, column 2, lines 4, 5, 6, 7, and 8 are deleted; and the drawing is amended to appear as follows:

Big NICKEL

511,055. AMERGORA. Registered June 14, 1949. American Woolen Company, New York, N. Y. Piece Goods Comprising a Mixture of Wool and Mohair. Class 42. Amended as follows: In the statement, line 8, "mohair" is deleted and *rabbits' hair* is inserted in lieu thereof; in line 18, '"Amergora"' is deleted and *AMER-GORA* is inserted in lieu thereof; and the drawing is amended to appear as follows:

AMER-GORA

577,325. SOLAR. Registered July 14, 1953. Solar Electric Corporation, Warren, Pa. Electric Incandescent Lamps, Electric Wire Connectors, Etc. Class 21. Corrected as follows:

Solar

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 404,402. Registered Nov. 23, 1943. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

H-9 EXTRA

The word "Extra" is disclaimed apart from the mark shown.

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since early in the year 1924.

Reg. No. 416,984. Registered Oct. 9, 1945. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

NO. 484

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since Mar. 24, 1942.

Reg. No. 416,985. Registered Oct. 9, 1945. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

NO. 610

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since Mar. 24, 1942.

Reg. No. 416,986. Registered Oct. 9, 1945. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

NO. 883

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since Mar. 24, 1942.

Reg. No. 416,987. Registered Oct. 9, 1945. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

VEGA

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since Apr. 3, 1944.

Reg. No. 420,263. Registered Apr. 2, 1946. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

NO. 11 SPECIAL

The word "Special" is disclaimed apart from the mark as shown.

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since at least 1907.

Reg. No. 432,491. Registered Sept. 2, 1947. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

DIOK

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since August 1929.

Reg. No. 440,428. Registered Aug. 31, 1948. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

D.Y.O.

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since 1935.

Reg. No. 441,733. Registered Dec. 28, 1948. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

UNIVERSAL D.R.

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since 1919.

Reg. No. 443,627. Registered Dec. 13, 1949. The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey. Republished by registrant.

VSM STEEL

The word "Steel" is disclaimed apart from the mark as shown.

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.

Claims use since 1933.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 41,413. Registered Nov. 3, 1903. (Classified in Class 51.) Lambert Pharmacal Company, St. Louis, Mo. Republished by The Lambert Company, St. Louis, Mo., a corporation of Delaware.

See this number in Class 51 for goods and mark.

Claims use since May 1, 1881.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 435,746. Registered Jan. 6, 1948. Bendix Aviation Corporation, doing business as Eclipse-Pioneer Division, Teterboro, N. J., a corporation of Delaware. Republished by registrant.

CONVECTRON

For Tubes Enclosing Heater Elements Surrounded by a Fluid Medium, in Which Variations in the Convection Currents in the Fluid Medium Changes the Ohmic Value of the Elements.

Claims use since Sept. 9, 1946.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Reg. No. 222,635. Registered Jan. 4, 1927. The Wooster Brush Company, Wooster, Ohio, a corporation of Ohio. Republished by registrant.

OLD TRUSTY

For Paint Brushes.

Claims use since about Apr. 1, 1926.

Reg. No. 222,637. Registered Jan. 4, 1927. The Wooster Brush Company, Wooster, Ohio, a corporation of Ohio. Republished by registrant.

LONG BOY

For Paint Brushes.

Claims use since about Apr. 1, 1926.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 437,113. Registered Mar. 9, 1948. Hardwick Stove Company, Cleveland, Tenn., a corporation of Delaware. Republished by registrant.

EFFLEX

For Gas Ranges and Gas Stoves and Parts Thereof.

Claims use since May 1933.

CLASS 37

PAPER AND STATIONERY

Reg. No. 307,177. Registered Oct. 17, 1933. Hampshire Paper Company, South Hadley Falls, Mass. Republished by Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts.

COMPARISON BOND

The word "Bond" is disclaimed apart from the mark as shown.

For Writing and Printing Paper.

Claims use since Mar. 3, 1933.

Reg. No. 307,862. Registered Nov. 7, 1933. Carew Manufacturing Company, South Hadley Falls, Mass. Republished by Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts.

Declaration Bond

The word "Bond" is disclaimed apart from the mark as shown.

For Writing and Printing Paper.

Claims use since October 1930.

Reg. No. 308,990. Registered Dec. 26, 1933. Hampshire Paper Company, South Hadley Falls, Mass. Republished by Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts.

Equity Trust Bond

The word "Bond" is disclaimed apart from the mark as shown.

For Writing and Printing Paper.

Claims use since July 10, 1931.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Reg. No. 389,691. Registered Aug. 19, 1941. The Hayes-Donahue Manufacturing Co., Inc., Milford, Conn. Republished by Tip-Top Products Company, Omaha, Nebr., a corporation of Nebraska.

"DREAM"

For Mechanical Non-Electric Hair Curlers.

Claims use since Aug. 14, 1940.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 333,440. Registered Mar. 24, 1936. Peter A. Stolich, Inc., Salinas, Calif. Republished by Peter A. Stolich, Salinas, Calif.

KING PIN

For Fresh Vegetables.

Claims use since Nov. 4, 1935.

Reg. No. 358,048. Registered June 28, 1938. Mutual Orange Distributors, Redlands, Calif., a corporation of California. Republished by registrant.

PURE GOLD

For Fresh Citrus Fruit and Canned Orange Juice for Food Purposes.

Claims use since 1910.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 41,413. Registered Nov. 3, 1903. Lambert Pharmacal Company, St. Louis, Mo. Republished by The Lambert Company, St. Louis, Mo., a corporation of Delaware.

LISTERINE

For Liquid Chemical or Medical Preparation Manufactured by Us Under a Private Formula and More Especially Known as an Antiseptic, Disinfectant, or Germicide, and as Such It Is Employed in Dental Practice as a Tooth and Mouth Wash for Its Antiseptic and Prophylactic Effect, and Also as a Detergent and Medical Wash and Lotion in Treating Diseased Conditions of the Skin and as a Toilet Preparation in All Matters of Personal Hygiene.

Claims use since May 1, 1881.

Reg. No. 195,247. Registered Feb. 17, 1925. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

PAR

For Soap Shaving Cream for Lathering Purposes.

Claims use since June 12, 1924.

REISSUES

JANUARY 5, 1954

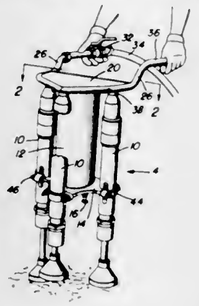
Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,763
BACKFILL TAMPER

John W. Brown, Westport, Conn., assignor to Gunderson-Taylor Machinery Company, Denver, Colo., a corporation of Colorado

Original No. 2,551,925, dated May 8, 1951, Serial No. 149,134, March 11, 1950. Application for reissue May 7, 1953, Serial No. 353,706

12 Claims. (Cl. 121—1)



1. A holding device for a plurality of pneumatic tamping devices comprising a central air-tight vessel forming a reservoir for compressed air, a plurality of clamps carried by the vessel for attaching thereto an equal number of tampers, means comprising a tubular member communicating the interior of the vessel with each tamper, a tubular air supply pipe in communication with the vessel, an air flow control valve in the pipe, and handle means for guiding the assembly.

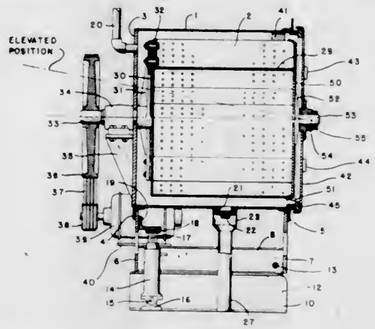
23,764
WASHING MACHINE OF THE CYLINDRICAL CONTAINER, END DISCHARGE TYPE

Herman Miller, Detroit, Mich., assignor to Miller Laundry Machinery Co., Detroit, Mich., a corporation of Michigan

Original No. 2,575,673, dated November 20, 1951, Serial No. 702,537, October 10, 1946. Application for reissue July 1, 1953, Serial No. 365,570

5 Claims. (Cl. 68—210)

1. A washing machine comprising a horizontally disposed cylindrical tank having an open end, a perforated container rotatable within the cylindrical tank and having an open end the diameter of which is substantially equal to the diameter of the perforated container, means for rotating the perforated container, a support upon which the cylindrical tank rests, a hinge for joining the open end portion of the cylindrical tank to the support, means for elevating *and lowering* the cylindrical tank at the end opposite to its open end, a door adaptable for closing the open end of the cylindrical tank and the rotatable container, said door comprising separate walls for engagement with the cylindrical tank and the rotatable container, one of the walls of said door being positionable in stationary relationship with the cylindrical tank and the other wall being rotatable with the perforated container, and sealing means positioned between the outer marginal portion of said door and the edges of the open end of said cylindrical tank, whereby when the cylinder is rotated,



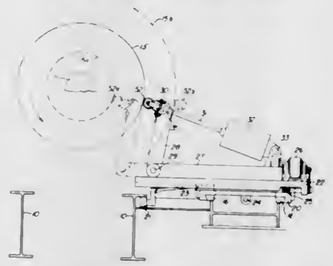
the doors open, and the closed end of the cylindrical tank elevated, the laundry within the perforated container progressively and unrestrictedly moves out of the perforated container and is discharged from the washing machine.

23,765
APPARATUS FOR REMOVING BARK FROM LOGS

Robert D. Pauley, Tacoma, and Louis A. McCanna, Spokane, Wash., assignors to Weyerhaeuser Timber Company, Longview, Wash., a corporation of Washington

Original No. 2,576,967, dated December 4, 1951, Serial No. 38,336, July 12, 1948. Application for reissue May 11, 1953, Serial No. 354,442

19 Claims. (Cl. 144—208)



11. A log barking machine comprising means for supporting a log with its axis in a substantially fixed axial line, a bark-removing tool having small dimensions relative to the diameters of the logs to be debarked thereby and having a log-engaging surface, said surface in the working position of the tool confronting the log surface at a wedge-shaped angle for receiving and compressing bark against which said surface engages, means for mounting said tool for movement approximately radially of the log when engaging

the log, yielding pressure-operated means acting on said mounting means for holding said tool against the log with a continuous substantially constant force, means to effect relative motion of said tool and log circumferentially of the log, and means to effect relative motion of said tool and log lengthwise of the log, whereby said last-mentioned two movements may be controlled to effect a predetermined substantially spiral path of said tool about said log.

PLANT PATENTS

GRANTED JANUARY 5, 1954

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,238
LILAC PLANT
Walter E. Lammerts, La Canada, Calif., assignor to Descanso Distributors, Inc., La Canada, Calif., a corporation of California
Application July 11, 1952, Serial No. 298,477
1 Claim. (Cl. 47—60)

A new and distinct variety of lilac plant, substantially as herein shown and described, characterized particularly as to novelty by its relatively short and mild winter-chilling requirements, by its regular and abundant production of large flower clusters consisting of large individual florets, by the substantial identify of the color of its flowers with those of the variety "Kate Sessions" (unpatented), by its vigorous habit of plant growth, and by its abundant production of large and attractive foliage.

1,239
ROSE PLANT
Walter E. Lammerts, La Canada, Calif., assignor to Descanso Distributors, Inc., La Canada, Calif., a corporation of California
Application December 10, 1952, Serial No. 325,245
1 Claim. (Cl. 47—61)

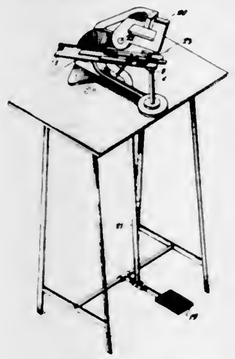
A new and distinct variety of rose plant of the hybrid Wichuraiana class, substantially as herein shown and described, characterized particularly as to novelty by its bushy and compact habit of growth, by its abundant production of dark green, large, flat and smooth leaves, by its glabrous stem growth and freedom from thorns, by its large, single type flowers and their absence of petaloids, by the uniform deep lemon yellow general color tonality of the flowers, by the dark buttercup yellow color of the buds and their substantially complete freedom of red coloration, by the freedom of anthocyanin pigment in its stems and leaves, by the strong Vermillion color of the anther filaments, and their resultant marked contrast with the color of the open flowers, by the high resistance to mildew of both the foliage and the peduncles, and by its complete sterility and the absence of formation of hips and seeds.

PATENTS

GRANTED JANUARY 5, 1954

GENERAL AND MECHANICAL

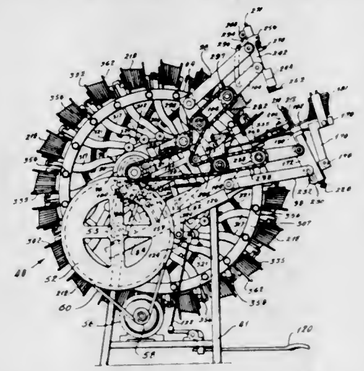
2,664,562
POSITIONING DEVICE FOR STAPLING MACHINES
Joseph W. Cameron, Chicago, Ill., assignor to Boyle-Midway Inc., Chicago, Ill., a corporation of Delaware
Application July 28, 1950, Serial No. 176,257
4 Claims. (Cl. 1—3)



1. A positioning device for use with a stapling machine having a die and an anvil, said device comprising a base plate, a sliding member, guide means therefor, the base plate having at one end means for securing it firmly in operating position with respect to the anvil of the stapling machine, the sliding member being reciprocable in guide means on the base plate relatively to the anvil from a loading position to a stapling position and having at its forward end means for removably attaching a wick to be stapled by means of a wick support, and additional guide means adjacent the anvil surrounding the path of travel of the wick, and mounted on the base plate, the additional guide means being so positioned with relation to the anvil that, on reciprocation of the sliding member with attached wick and wick support from the loading position to the stapling position, the wick will thereby be drawn through said additional guide means and positioned with respect to the anvil for stapling.

2,664,563
HEEL FORMING MACHINE
Ernest D. Sydow, St. Louis, Mo., assignor to John E. Mitchell Company, Dallas, Tex., a corporation of Missouri
Application August 19, 1950, Serial No. 180,463
13 Claims. (Cl. 1—39.8)

1. In a heel forming machine, a pair of elongated nailing mechanisms mounted on a support so as to extend forwardly therefrom, each of said mechanisms containing a nailing assembly at its free end which includes a member for receiving at least one nail, at least one of said mechanisms being pivotally mounted on the support; means for causing relative movement of the nailing assemblies between a closed position in which the nail receiving members are spaced close together in alignment and an open position in which they are spaced apart; and means for varying the distance between the nail receiving members in the closed position to accommodate heel blanks of various lengths, the nail receiving members



remaining in alignment in the closed position regardless of the distance between them; said last-mentioned means including a housing carried by each of said nailing mechanisms and threadably adjustable plungers therein for axially adjusting said nailing assemblies.

2,664,564
BRASSIERE
Abraham Finkelstein, Mount Vernon, N. Y.
Application March 30, 1951, Serial No. 218,455
3 Claims. (Cl. 2—42)



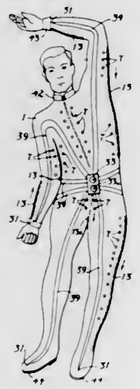
1. A brassière comprising a front panel portion having a back body encircling portion secured to the side edges of the front panel portion, said front portion having a pair of breast pockets, each merging at its lower edge into a circumferentially extending portion, each of said pockets and circumferential portion being attached to said back body encircling portions at its side edge, and said circumferential portion being connected at the center by a laterally elastic fabric, said front portion having also an inner layer having a central strain resisting band underlying said first mentioned elastic fabric, and being connected to each back body encircling portion by a laterally elastic fabric of shorter length than the circumferential portion, and of a width to lie wholly below the breast pockets.

2,664,565
STAPLE DRIVER
Richard A. Percoco, Mamaroneck, N. Y.
Application October 26, 1951, Serial No. 253,373
4 Claims. (Cl. 1—49)



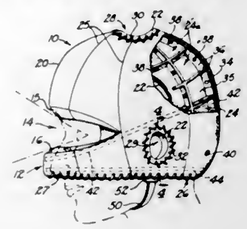
1. A staple driving machine comprising an inverted U-shaped frame and a U-shaped magazine which is partially enclosed by the side walls of the frame and is pivoted thereto at its rear end, the frame being provided with a handle portion to the rear of the pivot, a throat formed at the forward end of the magazine through which the staples are driven, a staple pusher for advancing the staples, a staple driver mounted at the forward end of the frame whose lower end passes through the throat to drive the staple when the forward end of the machine is forcibly moved in the direction of the work and the forward end of the magazine contacts the work, a gate mounted for vertical sliding movement at the forward end of the frame, and provided with a rearwardly extending portion for securing the driver in place, spring and detent means for securing the gate in a lowered position where it largely encloses the driver, and in a raised position wherein the lower section of the driver is exposed.

2,664,566
FLEXIBLE SHELL SUIT
Avo R. Mianulli, Philadelphia, Pa.
Application June 22, 1951, Serial No. 232,914
6 Claims. (Cl. 2—2)



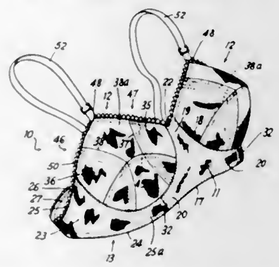
1. A flexible shell suit fashioned to cover a wearer's body including the torso from the neck and the arms as far as the wrists, the legs and feet, the walls of said suit including an outer layer of flexible and water-proof elastomeric sheeting, an inner insulation layer of compressible airfoam latex material, a plurality of conical compressible mounds projecting from the inside surface of the inner insulation layer for coaction with a person's body to normally space said insulation layer from said body to provide an air chamber thereabout, and means to contract the suit walls about a wearer's body whereby to compress the mounds any desired degree to regulate the air chamber or finally substantially eliminate the air chamber.

2,664,567
PNEUMATIC BOXING HELMET
John W. Nichols, San Diego, Calif.
Application December 29, 1950, Serial No. 203,421
13 Claims. (Cl. 2—3)



1. In an athletic helmet: a cupped cushioning head member having forward, top, back and side portions to protect the forehead, top, back and sides of a wearer's skull; a cushioning nose member secured to the side portions of said head member and extending forward to lie alongside the wearer's cheek bones and extending across in front of such cheek bone positions in front of the position of the wearer's nose to protect the wearer's nose, there being thereby provided a transverse vision opening between said nose member and the forehead-covering portion of said head member, said head member and nose member including an outer wall means; and separate pneumatic cushioning means enclosed within said wall means.

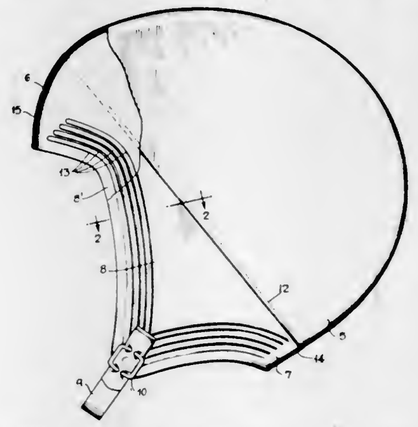
2,664,568
BRASSIÈRE
Edwin H. Wegman, Brooklyn, N. Y.
Application February 16, 1951, Serial No. 211,209
4 Claims. (Cl. 2—42)



1. A brassière comprising a pair of cup portions, each of said cup portions having at the opposite sides thereof a pair of laterally spaced relatively rigid side portions and a relatively light, soft central portion between said side portions and extending from the top to the bottom of the cup portions, each of said relatively rigid side portions extending from the top to the bottom of the cup portion and from an extreme side thereof to said central portion.

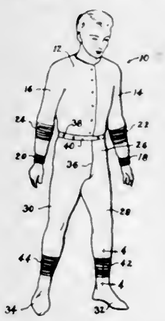
2,664,569
BATHING CAP
Fred W. Andrews, Dover, Del., assignor to International Latex Corporation, Dover, Del., a corporation of Delaware
Application March 10, 1949, Serial No. 80,587
2 Claims. (Cl. 2—68)

1. As an article of manufacture, a unitary, seamless, dipped rubber latex bathing cap having a crown portion adapted to cover the wearer's hair, and a bottom portion including depending side panels adapted to cover the wearer's ears and front and rear portions adapted to engage the wearer's forehead and neck, respectively, said bottom portion being of greater thickness throughout than said crown portion and extending upwardly from the lower marginal edge of said cap to a line defining the juncture between said bottom portion and said crown portion and adapted to extend substantially along the hair-



line of the neck and forehead and in a substantially straight line between the hairline of the wearer at the neck and the hairline of the wearer at the forehead, whereby the cap is provided with a circumferential elastic portion extending below said line which is adapted to clamp the head of a wearer tighter than the crown portion above said line and to clamp the head along a line above the ears as well as along a line extending across the ears without the use of additional devices.

2,664,570
WEARING APPAREL WITH STRETCHABLE CIRCUMFERENTIAL INSETS
William W. Artzt, New Rochelle, N. Y.
Application September 1, 1950, Serial No. 182,825
3 Claims. (Cl. 2—78)



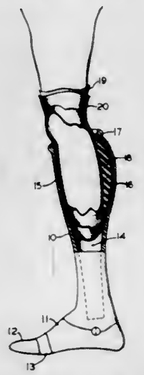
1. An article of wearing apparel formed of a knitted fabric comprising a body covering portion and sleeves and legs extending from said body covering portion, said sleeves and legs having means at their respective ends for close engagement with the extremities of the wearer's limbs to maintain said sleeves and legs in covering relation to the limbs, circumferentially extending circular zones interposed in said sleeves between the wrist and elbow covering portions thereof and in said legs between the ankle and knee covering portions of the latter so that said zones are remote from the joints of the covered limbs, said zones being formed of a knit more yieldable longitudinally of the sleeves and legs than the remainder of the latter so that said sleeves and legs may extend longitudinally to comfortably accommodate the lengths of the wearer's limbs covered thereby.

2,664,571
BUST PAD
George P. Kempel, Cuyahoga Falls, Ohio
Application August 16, 1949, Serial No. 110,607
10 Claims. (Cl. 2—267)



1. A breast pad of generally ovoid shape in front view, and having an outer, convex surface and an inner, generally concave surface, said inner surface having a cavity located in an offset position with respect to both of the principal axes of the ovoidal pad.

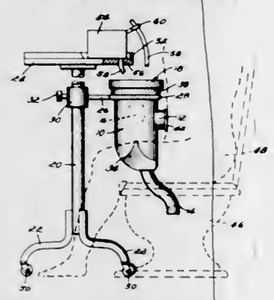
2,664,572
ARTIFICIAL LIMB
Emmett Blevens, Louisville, Ky.
Application October 27, 1952, Serial No. 317,129
2 Claims. (Cl. 3—19)



1. Means for attaching an artificial limb to the stump of a leg which has been amputated below the knee, comprising a socket in the upper end of said artificial limb, the walls of said socket being substantially straight where they are adapted to contact the shin, but convex where they are adapted to contact the calf of the stump so that the socket is smaller in diameter at its top than lower down, a stump sock fitting within and frictionally engaging said socket, and a resilient pad

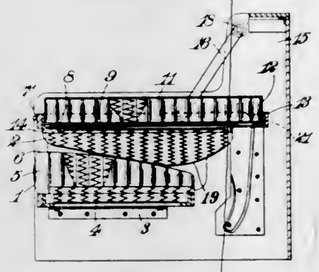
having an outer surface complementary to the convex wall of said socket and fitting within said stump sock and frictionally engaging that portion of said stump sock which contacts said convex wall, said pad pressing against both the calf of said stump and said convex wall when said stump is inserted in said socket.

2,664,573
EXCREMENT DISPOSAL DEVICE
Lucille Inez Taylor, Lincoln, Nebr.
Application March 17, 1952, Serial No. 276,979
1 Claim. (Cl. 4—1)



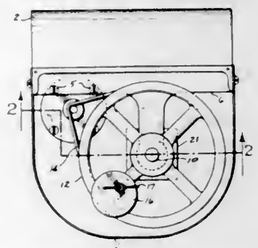
In an excrement disposal device, the combination which comprises a cylindrical receptacle having leg receiving recesses in the sides of the lower end thereof, with a discharge tube extended from the lower end, an inlet nipple extended from the front, and having a bell-like flange around the upper end, a transparent cover positioned on the flange at the upper end of the receptacle, a resilient collar positioned on the extended end of said nipple, a post supported by radially disposed legs and having a tray on the upper end, a bracket having a ring on an extended end thereof adjustably mounted on said post, said ring of the bracket receiving the receptacle with the bell-like flange resting upon the ring, a container positioned on the tray at the upper end of the post, and a colon irrigating tube extended from said container.

2,664,574
SOFA BED WITH FORWARD TURNING BACK
John Teasdale Newborn, London, England, assignor to Vi-Spring Products Limited, London, England
Application September 11, 1950, Serial No. 184,219
Claims priority, application Great Britain September 14, 1949
1 Claim. (Cl. 5—43)



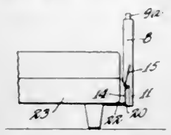
A bed convertible to a seat and comprising a support frame, an elongated seat portion supported in fixed relation by the frame, a horizontal bed portion overlying the seat portion, substantially in contact with the upper surface thereof and extending to the rear thereof, the length of the bed extending lengthwise of the seat portion, links movable in a vertical plane supporting the bed portion in hanging relation from the frame and pivoted at their upper ends to the frame at a position above the bed portion and pivoted at their lower ends to the bed portion at a position which overlies the seat portion, is spaced from the upper surface thereof and is further from the rear edge of the bed portion than it is from the surface of the seat portion, the under surface of the bed portion towards the rear edge from the pivot axis being convexly arcuate about the pivot axis, a cam surface secured to the frame and extending downwardly from a position adjacent the rear edge of the bed portion and forwardly near its lower end, the cam surface having a rearwardly extending notch at its upper end, and a cam follower on the rear edge of the bed portion engaged within the notch, the bed portion being movable from the horizontal position aforesaid by disengagement of the follower from the notch and by pivotal movement about the attachment to the lower ends of the links with rolling movement of the aforesaid arcuate surface over the seat and by cooperation of the follower with the cam surface accompanied by swinging movement of the links, into a position in which the bed portion has its width extending upwardly and constitutes a back for the seat, the lower edge of the bed portion extending below and behind the seat portion.

2,664,575
ROCKING DEVICE
Jason Dwight Lee, Salem, Oreg.
Application September 5, 1950, Serial No. 183,274
3 Claims. (Cl. 5—109)



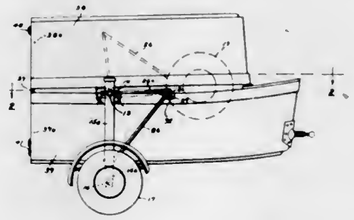
1. A device for rocking a legged crib or the like wherein the legs of one end are supported upon movable mounts, and thus are unstably mounted to permit limited lateral movement thereof, comprising a frame member having a mounting hook extending laterally out from one side thereof, said hook being hung over one side of the crib adjacent the said one end thereof supported upon movable mounts with said frame member bearing against the said one side of the crib, said frame member being supported from said hook in a position laterally out from and beyond the said one side of the crib and outside the bounds of the crib proper, an unbalanced wheel mounted for rotation in a horizontal plane on said frame member to impart lateral vibration thereto, and means for rotating said wheel at a uniform speed calculated to induce somnolence upon an occupant of said crib or the like, said means for rotating including an electric motor having a rotor thereof in direct operative engagement with a belt mounted to engage said wheel.

2,664,576
GUARD RAIL ATTACHMENT FOR BEDS
Albert W. Lehman, Stillwater, Minn., assignor to St. Croix Manufacturing Company, Bayport, Minn., a corporation of Minnesota
Application May 14, 1949, Serial No. 93,310
4 Claims. (Cl. 5—331)



2. For a bed, the combination of a side frame member formed with substantially vertically disposed inner and outer surfaces and an upper edge surface, a guard structure extending along and above said frame member, said structure having end posts forming parts of said structure and having portions formed to overlie the outer surface of said frame member, and clamping means carried by each of said posts and comprising an elongated rigid plate having a lower portion extending along the inner side of the post and an upper portion extending obliquely upward at an acute angle crossways of the post, said post being provided with a wedge member for sliding engagement with said upper portion of the plate, and a rigid projection on said plate disposed to engage the upper edge surface of said frame member, whereby when said guard structure is positioned on said frame member downward pressure applied to said structure will cause said plate to be actuated to grip said frame member between the lower portions of said plate and post.

2,664,577
WHEELED DEVICE FOR TRANSPORTING BOATS
Robert H. Sanborn, Rock Creek, Ohio
Application August 11, 1948, Serial No. 43,670
5 Claims. (Cl. 9—1)



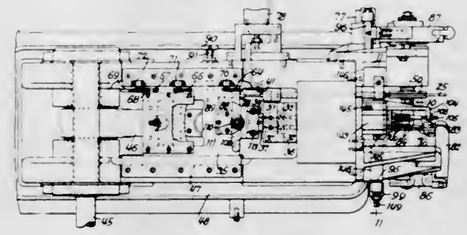
2. Means for transporting a boat comprising a bar extending crosswise of the boat and laterally beyond the opposite gunwales thereof, means rotatably securing said bar to the boat, a vertical strut secured to each end of said bar in coplanar relationship with said bar and located outside said gunwales, a wheel rotatably mounted at the lower end of each strut, means connected with said boat for maintaining said strut in vertical position, said last mentioned means including a brace rigidly connected with one of said struts below said bar and below the gunwale of the boat, said brace then extending longitudinally of said boat and upwardly, said brace then extending across said gunwale and then extending back to said bar, and there said brace is rigidly connected with said bar, whereby said backwardly extending bar portion serves as a handle operable from within the boat and always being located above said boat gunwales to move said bar, struts and wheels from said vertical position to a retracted position.

2,664,578
FOOT BINDING FOR WATER SKIS AND THE LIKE
William O. Clinedinst, Pittsburgh, Pa.
Application March 28, 1952, Serial No. 279,185
4 Claims. (Cl. 9—21)



1. In combination with a water ski, a foot binding comprising an elastic flexible vamp member, a non-elastic flexible counter member, each of said members having an outwardly extending tab on both side edges thereof, and a pair of parallel longitudinally extending slat members secured to said water ski, said tabs being disposed between said slats and said ski to secure the same thereto, said slats being releasably secured to the ski to permit movement of said tabs to permit length and width adjustment of said foot binding.

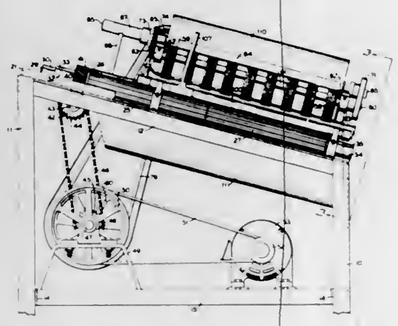
2,664,579
COLD HEADER
Robert R. Akey, Rockford, Ill., assignor to Joseph Behr & Sons, Inc., Rockford, Ill., a corporation of Illinois
Application October 8, 1948, Serial No. 53,461
1 Claim. (Cl. 10—13)



A cold forging machine for forming heads on bolts and the like comprising, in combination, a frame, a ram reciprocable thereon, a coning punch and a finishing punch carried by the ram in spaced relation, a die head rotatably mounted on the frame carrying two dies in the same spaced relation as the punches and arranged to be coaxially aligned therewith in reversed order in each half revolution of the die head, a cut-off die independent of the die head, a combined cut-off knife and blank gripping unit reciprocable relative to the cut-off die radially with respect to the rotary die head and operated in timed relation to the rotation of said head to cut blanks and feed them one at a time to whichever die is disposed on that side of the head nearer the cut-off die, means for turning the die head a half revolution per cycle so that in one cycle a blank disposed in one die is coned by the coning punch and the same blank in the next cycle is finished by the finishing punch, pins slidable endwise in the dies behind the blanks and arranged to be revolved with the dies, means to support the pins against backing up in the upsetting operations comprising a fixed back-up abutment behind the die head coaxially aligned with the coning punch arranged to be engaged by the outer end of

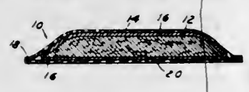
whichever pin is disposed in operative relationship to said coning punch, and knock-out means behind the die head and aligned with the finishing punch for engagement after the finishing operation with the outer end of whichever pin is aligned with the finishing punch to move the pins forward to eject the finished blanks, said pins being slidable rearwardly to back up position with the blanks in the insertion thereof.

2,664,580
CORN SILKING AND CLEANING MACHINE
Roy R. Feeser, Thomasville, Pa.
Application August 23, 1949, Serial No. 111,949
16 Claims. (Cl. 15—3.2)



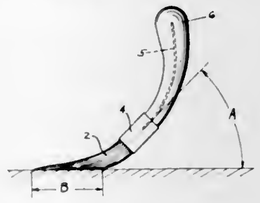
1. A corn cleaning and silking machine comprising a pair of inclined, rotatable, supporting rolls lying parallel to one another so as to form an inclined trough along which the ears of corn may travel under the influence of gravity in their passage through the machine, a brush device located above the trough formed by said rolls for removing the silk and foreign matter from the ears of corn, a frame situated above said rolls, means for supporting said brush device on said frame for rotation about an axis parallel to the axes of rotation of said rolls, means for supporting said frame for pivotal movement about an axis lying parallel to the axes of rotation of said rolls and to one side thereof so as to enable the brush device to be moved away from the rolls, an electric driving motor, driving means operated by said motor for rotating said rolls and said brush device, said means including a mechanism for rotating said brush device in any position of said frame whereby the brush device may be moved away from over the rolls without stopping the motor.

2,664,581
ANTIPERSPIRANT DISPENSER
Anna L. Miller and Dorothy M. Keast, Philadelphia, Pa.
Application December 1, 1950, Serial No. 198,542
3 Claims. (Cl. 15—131.1)



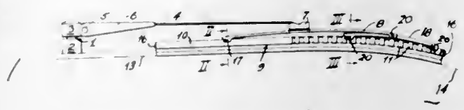
1. A dispenser adapted to dust the fingers with powder when the fingers are rubbed thereover comprising an inner cushion formed of a porous, fibrous material and containing a generous amount of a powder mixture adapted to neutralize perspiration and inhibit the formation thereof, a fabric cover enveloping said cushion, and a layer of absorbent cotton disposed between said cushion and said fabric cover, said layer of absorbent cotton being arranged to absorb said powder from said cushion and said fabric cover being sufficiently porous such that when the fingers are rubbed over said cover the fingers are dusted with the powder contained in said absorbent cotton layer.

2,664,582
FLEXIBLE HANDLE PAINTBRUSH
Morris H. Kammann, Mound, Minn.
Application November 21, 1949, Serial No. 128,620
3 Claims. (Cl. 15—143)



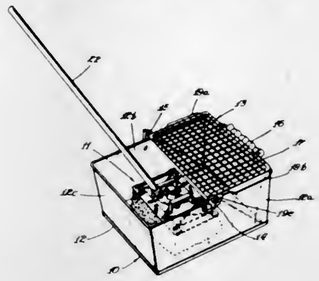
1. A paint brush comprising, a handle, an enlarged base portion integral with said handle, a bristle assembly including a plurality of bristles secured together and having their longitudinal axes parallel to one another, means for securing said bristle assembly to said enlarged portion, said handle comprising an elongated member having a longitudinal axis parallel to the longitudinal axes of said bristles, said handle being flexible throughout the entire length thereof and bendable along the entire length thereof to permit the longitudinal axis of said handle to assume an arcuate path extending transversely with respect to the axes of said bristles when pressure is applied to said handle in a direction normal to the longitudinal axis thereof.

2,664,583
WINDSHIELD WIPING BLADE
John R. Oishei, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application September 10, 1949, Serial No. 114,950
6 Claims. (Cl. 15—245)



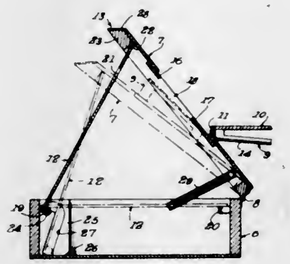
1. A windshield wiper comprising an elongate flexible body having a wiping edge, a flexible backing therefor loosely supporting the same to facilitate the conformance of the wiping edge to the surface being wiped, an arm-pressure distributing member extending lengthwise of the body, a second member extending lengthwise of the body beneath one end of the first member and pivotally connected thereto for distributing the arm pressure as transmitted to it by said one end, the opposite ends of the second member being connected to the backing at longitudinally spaced points, said first member having its opposite end directly connected to the backing at a point spaced longitudinally from the aforesaid second member, and means provided on said first member for attaching it to an actuating arm.

2,664,584
MOPPING APPARATUS
Edward A. Twerdahl, Evanston, Ill.
Application September 20, 1946, Serial No. 698,275
3 Claims. (Cl. 15—260)



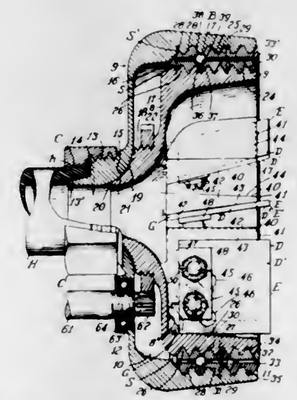
1. A mop pail structure comprising an open-top liquid container of substantially rectangular shape, a U-shaped carrying bail shaped and sized to match approximately either one-half of the upper edge contour of said container, means pivotally mounting said bail on said container for pivotal movement relative to the open top of said container between a raised carrying position and a pair of diametrically opposed lower positions overlying one or the other half of the open top container, and mop squeezing means mounted upon and extending between the legs of said bail to cover a portion of the open top of said container when said bail is in one of its lower positions wherein said mop squeezing means is in a mop squeezing position, said mop squeezing means having openings therethrough through which liquid squeezed from a mop may drain into said container.

2,664,585
SHOESHINE DEVICE
Bert Gaither, Van Nuys, Calif.
Application December 1, 1951, Serial No. 259,430
2 Claims. (Cl. 15—265)



1. A shoeshine device comprising a flat, rectangular and relatively shallow open-topped base adapted to store shoe-shining paraphernalia, a generally flat rectangular cover hinged at one end to said base and movable on its hinge between a position to cover the open top of the base and an elevated position extending at an upward angle with respect to the base, the free edge of said cover constituting a foot rest when the same is elevated, a rectangular member pivotally engaged with the base adjacent the end thereof opposite the end having the cover hinge, said pivotal engagement comprising lateral trunnions on said member and vertically spaced pivotal and selective supports for said trunnions and adapting said member to be swung between a flat position closing the open top of the base, when the trunnions are supported by the upper of said supports, and an upwardly angular position having its free end in prop-supporting engagement with the free end of the cover, when said trunnions are supported by either of said supports, selectively, and a lug in the base and opposite to and aligned with the upper of the vertically spaced supports to support the free end of said member when positioned to close the top of the base.

2,664,586
ROTARY SCRAPER, ABRADING, OR POLISHING TOOL
Winston C. E. Prins and Dougal W. S. Prins, Washington, D. C.
Application April 3, 1951, Serial No. 219,082
15 Claims. (Cl. 15—327)

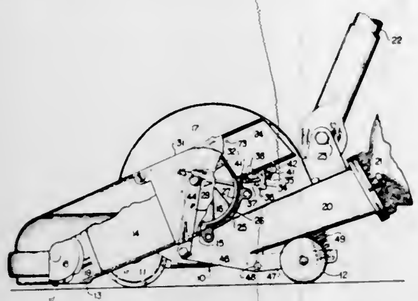


8. A rotary tool for performing cutting, scraping, finishing or polishing functions comprising a rotatable shell having an open outer end, blades within said shell slidably mounted for limited movement radially and axially of the shell, means for rotating the shell and creating centrifugal force to move the blades radially, and means within the shell engageable by the blades as they are moved radially to simultaneously impart the axial movement to the blades to cause them to partially emerge axially through the open end of the shell.

2,664,587
CONVERSION ARRANGEMENT FOR SUCTION CLEANERS
William H. Kitto, Evanston, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application March 22, 1950, Serial No. 151,126
12 Claims. (Cl. 15—333)

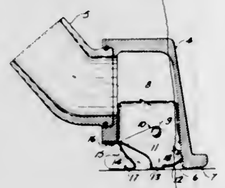
1. A suction cleaner including a body, a downwardly facing nozzle at the forward end of said body, a motor, a fan driven by said motor, said fan including a casing having a fan eye formed in said body, said body having a suction passageway extending between said fan eye and said nozzle, a converter receiving tube swivelled to said body on the axis of said fan eye for communication therewith, latch means carried by said tube and extending into the interior thereof for holding it against swivelling movement, said converter receiving tube being movable from its latched position to an operative position to

perform a function in converting the cleaner to off-the-floor cleaning, a converter tool insertable into said converter receiving tube and means on



said converter tool operable upon insertion of said tool into said tube for engaging and releasing said latch means.

2,664,588
NOZZLE CONSTRUCTION FOR SUCTION CLEANERS
George A. Brace, Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application June 10, 1948, Serial No. 32,117
8 Claims. (Cl. 15—416)



5. A surface cleaning tool for suction cleaning apparatus comprising a hollow body having a portion forming a first surface cleaning air inlet nozzle, means for connecting the interior of said hollow body to a source of suction, an air inlet port in said hollow body spaced above said first nozzle, a nozzle structure movably mounted on said hollow body having a second air inlet cleaning nozzle of smaller area than said first nozzle, said nozzle structure shaped to engage portions of said hollow body above said first nozzle and said air inlet port to form an air seal around said nozzle structure with said second nozzle in surface cleaning position, said nozzle structure including means for closing said air inlet port when said nozzle structure is moved to a non-cleaning position, and means for selectively positioning said nozzle structure in a first position in which said air seal is formed or in said non-cleaning position.

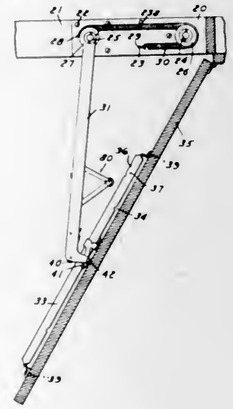
2,664,589
CARPET GRIPPER
Chaim M. Szpilberg, Montreal, Quebec, Canada
Application July 27, 1951, Serial No. 238,817
3 Claims. (Cl. 16—16)

1. A carpet gripper, comprising, an elongated narrow thin wooden strip adapted to lie along a floor margin and be anchored to it and having a bottom face and a top face, a plurality of staples extending through the strip and each having a bridge portion adjacent to the bottom face and a pair of prongs extending from said bridge portion through the strip and extending at a carpet-gripping angle from the top face, the staples being arranged in a plurality of rows longitudinally of the strip, the bridge portion of each staple extending longitudinally of the strip whereby its prongs are substantially equally



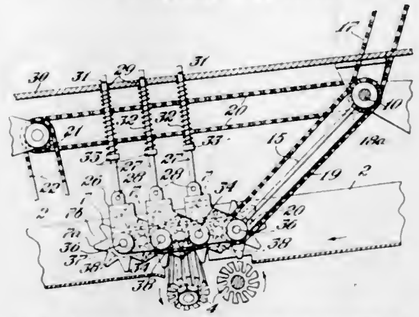
spaced from the margin of the strip, the prongs of each staple being spaced apart from about $\frac{3}{16}$'' to about $\frac{1}{4}$'' whereby they are adapted to cooperate in engaging closely spaced apart portions of the carpet under tension with each prong taking about half the pull, the respective staples in each row being spaced apart from about $1\frac{3}{4}$'' to about $2\frac{1}{2}$'' between their centers.

2,664,590
DOOR HOLDER AND BUFFER
James G. Allen, Ubly, Mich.
Application June 10, 1950, Serial No. 167,334
10 Claims. (Cl. 16—65)



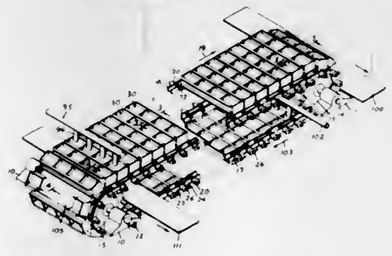
10. In combination, a door-closing, automatically-variably checking, and positive-securing and automatically-releasing-holder device comprising a slide-rail positionable on a door, a torsion-arm positionable on a jamb, a pin on said arm slidably engaging the inside of said rail to permit opening and to effect closing of a door; said rail having pin engaging notches in the inside thereof by-passable by said pin in door opening and normally pin receivable in door closing to engage said pin to hold the door in selectable open conditions; a cam-traveler slidably disposed on said rail adapted to be bidirectionally moved by said pin and itself adapted to selectively permit said pin to engage a notch on said rail in door closing, and a toggle-check carried by said arm adapted to engage said rail to automatically variably check a door as the door moves from an open to a full-closed position and to urge said pin into engagement with said rail notch when said checking and holding elements are both activated.

2,664,591
FISH SCALING MACHINE
James N. Brophy, Wakefield, Mass., assignor, by mesne assignments, to Ruth C. Brophy, Wakefield, Mass.
Application August 30, 1951, Serial No. 244,291
4 Claims. (Cl. 17—5)



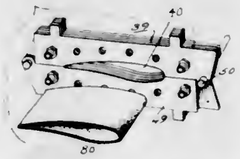
1. A fish scaling machine comprising means forming a path along which fish travel successively, a scaling roll on one side of the path for stripping scales from one side of the fish, the periphery of said roll adjacent the fish moving lengthwise of the direction of travel to strip scales lengthwise of the fish, a rotary feeder on the other side of said path for engaging the other side of the fish to control movement of the fish along said path, drive mechanism for said roll and feeder, connections between said drive mechanism and said roll and feeder respectively including speed control means driving the feeder at a slower speed than said roll, said feeder comprising a plurality of feed wheels spaced lengthwise of the path straddling the scaling roll, and resilient supporting means for each of the feed wheels yieldingly urging each wheel independently toward said scaling roll, whereby successive portions of the fish are held against the roll notwithstanding variations in the thickness throughout the length of the fish.

2,664,592
CONVEYER
Harold O. C. Ingraham, Sharon, Conn., and John D. Sundy, Savannah, Ga., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application September 14, 1951, Serial No. 246,684
7 Claims. (Cl. 18—26)



1. A double-run conveyer comprising an endless carrier mounted for longitudinal movement in one direction to provide an upper run and in the opposite direction to provide a lower run, a plurality of pans connected to and supported by said carrier and arranged so as to afford upwardly facing material receiving compartments on both upper and lower runs, means adjacent one end of said conveyer for feeding material into upper run pans, and a material discharge station for upper run pans adjacent the opposite end of said conveyer, means adjacent said opposite end for feeding material into lower run pans, and means to prevent discharge of material from a lower run pan until such pan is approximately in position to begin to pass over the upper run.

2,664,593
MOLDING APPARATUS
Martin Larson, Upper Darby, Pa., assignor to Richard H. Prewitt, trading as Prewitt Aircraft Co., Wallingford, Pa.
Application July 30, 1949, Serial No. 107,718
7 Claims. (Cl. 18—35)

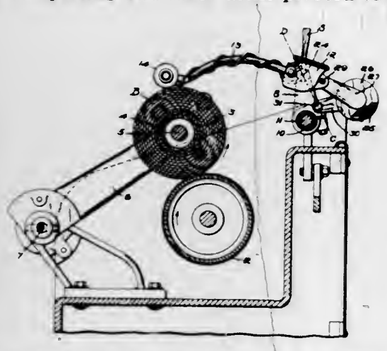


7. A mold formed of complemental portions defining a smooth surfaced mold cavity, each portion comprising a plurality of laterally juxtaposed laminations and sub-laminations of substantially equal and uniform thicknesses throughout, each of the plurality having surfaces defining portions of said smooth surfaced mold cavity, portions of the laminations spaced from the mold cavity-defining surfaces thereof comprising first ears, with said first ears extending beyond the respective interposed alternate sub-laminations in general alignment substantially longitudinally of the mold at a first common side of said mold, portions of the sub-laminations spaced from the mold cavity-defining surfaces comprising second ears, with the said second ears extending beyond the respective interposed alternate laminations in general alignment substantially longitudinally of the mold at a second common side of said mold, means compressing the said plurality transversely of the respective laminations and sub-laminations to form each portion as a rigid entity having two series of aligned respectively spaced ears at the sides of each mold portion, with the spacing between contiguous ears of said uniform thickness, said portions in assembly interleaving the said first ears at said common first side and said second ears at said second common side to form two substantially solid columns of ears at the said sides, means for holding the mold portions in such assembly, supporting means, and a supporting ear mounted on the supporting means having the same said uniform thickness, one of said laminations terminating short of and providing a space between adjacent first ears, said supporting ear disposed in said space to complete the said solid column of overlapping interleaved ears at said first side of the mold while supporting the mold at said side.

2,664,594
TEXTILE BALLING MACHINE
Gordon C. Anderson, Biddeford, Maine, assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application September 15, 1949, Serial No. 115,883
2 Claims. (Cl. 19—158)

1. In a baller, the combination of means of revolving a ball while it is built up by winding sliver on it, a roll running in contact with said ball, an arm on which said roll is mounted for

rotation, means supporting said roll arm for pivotal movement about an axis parallel with the axis of said ball but remote from said ball whereby the roll can adjust itself to variations in the diameter of said ball, a pivot movable with said roll arm toward and through a dead center position, a lever mechanism connected with said roll arm comprising two lever arms pivoted to swing



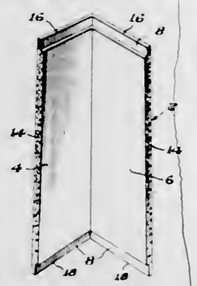
toward and from each other, and a spring connected with said lever mechanism acting on said lever arms in a direction tending to separate them, said spring being operable when said pivot is on one side of said dead center to hold the roll down yieldingly against said ball and when it is on the opposite side to hold the roll up away from the ball.

2,664,595

BUILDING CORNER CONSTRUCTION

John P. Koval, Norwood, Mass., assignor to Bird & Son, inc., East Walpole, Mass., a corporation of Massachusetts

Application October 12, 1949, Serial No. 120,890
2 Claims. (Cl. 20—5)



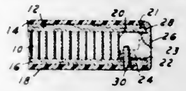
1. A preformed building corner element comprising a sheet of fibre-board of substantially uniform thickness having sides and upper and lower horizontal parallel edges and two diverging side edges connecting the ends of said horizontal parallel edges, the lower horizontal parallel edge being longer than the upper horizontal parallel edge and the two diverging side edges being of substantially equal length, said sheet being bent at substantially right angles substantially along a line between the median points of said horizontal parallel edges, and a rabbet on the inside surfaces of said element adjacent each of said parallel edges, the inner vertical surfaces of the rabbets being substantially parallel with the inner vertical surfaces of its corresponding side, the lowermost horizontal edge of the rabbet on each side of the median point being longer than the uppermost horizontal edge of the corresponding rabbet on each side of the median point by an amount substantially equal to the thickness of the element at the bottom of the rabbet at the lower parallel edge.

2,664,596

PANEL MOLDING AND ASSEMBLY THEREOF

James W. Greig, Detroit, Mich., assignor to Woodall Industries, Inc., Detroit, Mich., a corporation of Michigan

Application May 27, 1949, Serial No. 95,790
4 Claims. (Cl. 20—15)



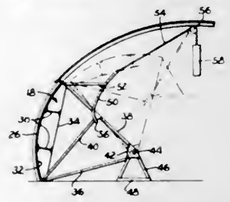
1. In combination with a three ply panel having a core ply of relatively low density disposed between an outer top ply and an outer bottom ply, each outer ply being of relatively high density, a moulding extending along over the margin of the panel, said moulding being generally T-shaped in cross section and having its upright leg projecting into the margin of the panel between the top and bottom plies thereof and having its head extending along over the margin overlying the edges of the top and the bottom plies and closing the space therebetween, said moulding provided with a portion on the underside of the head at the base of the leg bearing against the bottom ply of the panel supporting that portion of the leg adjacent to the margin thereof spaced from the bottom ply of the panel, and fastening means securing the leg of the moulding adjacent to its margin to the bottom ply of the panel drawing the leg toward said bottom ply and tilting the head of the moulding to bear against the edge of the top ply of the panel.

2,664,597

COUNTERBALANCED DOOR CONSTRUCTION

John F. McKee, Aurora, and Melvin E. Hartzler, Downers Grove, Ill., assignors to McKee Door Company, Aurora, Ill., a corporation of Illinois

Application July 31, 1952, Serial No. 301,946
3 Claims. (Cl. 20—16)



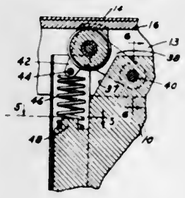
1. A counterbalanced door for a building having a wall formed substantially as a portion of a substantially horizontally disposed cylinder, and wherein the wall has an opening to form a doorway therein, said door being located within the building and behind said wall, said door being sufficiently rigid to be self-supporting and having rearwardly extending A-shaped supporting arms at opposite ends thereof, said arms having horizontal pivot points adjacent their apices whereby said door can be swung into an overhead open position about an axis established by said pivot points, a pair of counterweights, a cable attached to each counterweight, an overhead pulley for each cable, and means attaching each cable to one of said arms intermediate its apex and said door, said means being constructed so that the total weight of the counterweights multiplied by their effective lever arm about said pivotal axis is equal to the total weight of the door times its effective lever arm about said pivotal axis for all positions of the door.

2,664,598

SLIDING PANEL AND MOUNTING

James W. Greig, Detroit, Mich., assignor to Woodall Industries, Inc., Detroit, Mich., a corporation of Michigan

Application November 14, 1949, Serial No. 126,983
2 Claims. (Cl. 20—19)



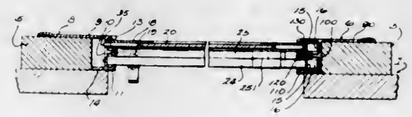
1. A sliding door comprising, in combination, a substantially rectangular upright panel having one upper corner notched out, a split tube extending along that upright margin of the panel terminating in the notch and with the margin of the panel disposed within the tube and the tube secured to the panel and extending upwardly across the notch, a roller assembly comprising a pair of complementary frame plates having two legs, a roller journalled between said plates, one leg of the frame plates pivoted at the end remote from the other leg to the panel adjacent to the top margin thereof and spaced inwardly of said notch, said frame plates extending horizontally across the notch and through the split in the tube and with said other leg disposed within the upper end of the tube, and a coil spring housed within the upper end portion of the tube seated at one end against a part of the notched out portion of the panel and bearing at the other end against said other leg of the frame plates urging the roller upwardly with respect to the panel and the tube.

2,664,599

WINDOW STRUCTURE

Abe Zitomer, Milwaukee, Wis., assignor to Alumatic Corporation of America, Milwaukee, Wis., a corporation of Wisconsin

Application January 2, 1948, Serial No. 198
1 Claim. (Cl. 20—52.2)



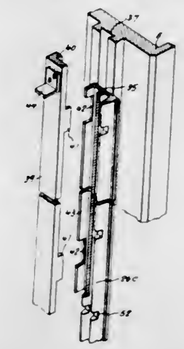
In a window structure the combination with a sash member and a guide member, the sash member being slidable and movable laterally respecting the guide member, and the guide member having a channel in which the said movements of the sash member are accommodated and interlocking means on said members normally restraining the sash member from movement in a sliding direction respecting the guide member, one of said members having a fixed projection and the other a recess comprising said means in further combination with a second guide member having a sash receiving channel sufficiently deep to accommodate lateral movement of the sash sufficiently to disengage said means, together with a spring in said last mentioned channel biasing said sash toward a position for engagement of said means, and a spring follower interposed between the spring and sash in the last mentioned channel, said last mentioned channel being sufficiently deep so that, upon full compression of said spring, the sash may be wholly disengaged from the channel of the guide member first mentioned, the said means being engageable and disengageable upon sash displacement laterally to an extent less than that required for the removal of the sash.

2,664,600

SLIDING WINDOW STRUCTURE

Reginald H. Smith, St. Albans, N. Y., assignor to Smith Pivot Window, Inc., New York, N. Y., a corporation of New York

Application December 16, 1948, Serial No. 65,650
4 Claims. (Cl. 20—52.3)



3. In a window construction, a frame, tracks carried on the inside of the frame, sashes carried and longitudinally slidable on said tracks, portions of said tracks being removable from within the frame, locking plates slidably mounted in the frame and normally overlying portions of the removable tracks to retain said portions in fixed relation to said frame, notches in the removable portions of the tracks, and means on the locking plates adapted to be aligned with the notches to permit of disengagement of the removable portions of the tracks from the locking plates.

2,664,601

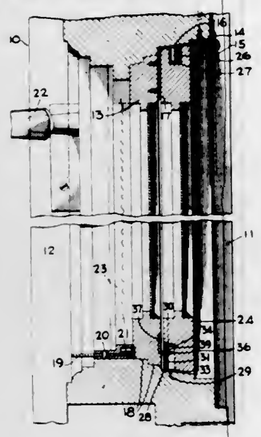
WINDOW CONSTRUCTION

Josef Meindl, Buffalo, N. Y.

Application May 12, 1950, Serial No. 161,693
6 Claims. (Cl. 20—53)

2. In a window construction, a main sash, a storm sash, common hinge means for said sashes each including a moving leaf consisting of a one-piece metal plate composed of two portions at substantially right angles to each other and to which the respective sashes are connected, the main sash being fixedly connected to one of the hinge-leaf portions and the storm sash being removably supported on the complemental hinge-leaf portion, the latter and the opposing end of the storm sash having registering, interengaging

pins and openings therein, and complementary means on said main sash and said storm sash



for releasably clamping the latter in adjoining unitary relation to the main sash.

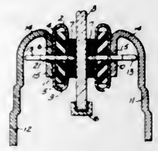
2,664,602
DRAUGHT EXCLUDING STRIP
Thomas John Robert Bright, Blackdown, near Leamington Spa, England
Application August 13, 1951, Serial No. 241,672
3 Claims. (Cl. 20—69)



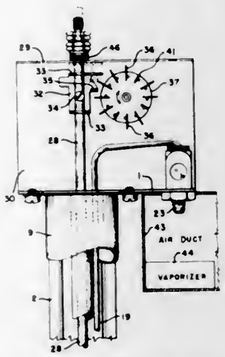
1. A draught excluding strip for vehicle doors comprising an effective portion of soft but resilient material compressible between the door and a fixed part of the vehicle to provide an efficient seal, a channel shaped metal clip carrying said effective portion and closely embraced thereby, said clip having an inwardly directed lip for maintaining a snap-on connection with a supporting flange on the vehicle, said effective portion having an integral lip directed inwardly towards the center of the mouth of said clip to engage the supporting flange and exclude moisture from the interior of said clip, said effective portion being held in position on said clip by having one edge turned over one edge of said clip and secured to the other limb of said clip by fastening means so spaced from the integral lip of said effective portion as to permit of flexure of that part of said effective portion which carries the integral lip an amount sufficient to enable said integral lip to make good sealing engagement with the flange.

2,664,603
WINDOW CHANNEL CONSTRUCTION
Carlos J. McKinney, Detroit, Mich., assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Original application July 1, 1947, Serial No. 758,319. Divided and this application July 11, 1950, Serial No. 173,037
6 Claims. (Cl. 20—69)

1. In combination with a window structure having a frame providing a glass receiving channel including a substantially flat wall portion, a liner comprising a thin metal strip having a substantially flat web portion disposed flatwise against the channel wall portion, marginal side portions of said strip being rolled toward one another providing spaced parallel channels disposed in confronting relation to one another, a series of elongated openings formed in the web of the strip, apertures in the channel wall aligned with the strip openings, resilient means extending through the openings and apertures and having interlocking connection with the strip and the channel wall to retain the strip against the wall, a ribbon of resilient rubberlike material of substantially the same width as the width of the flat web portion and of a thickness less than the thickness of the channels interlocked in the channels of the strip and tufted cushion material extending laterally from said ribbon for contacting a glass window in the channel.



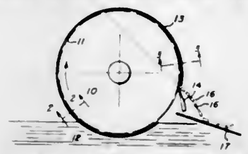
2,664,604
AIR CONDITIONING APPARATUS AND LIQUID METERING DEVICE
George C. Hein and Joseph Hajek, Mars, Pa.; said Hajek assignor to said Hein
Application January 21, 1950, Serial No. 139,948
10 Claims. (Cl. 21—74)



1. In air conditioning apparatus, an air duct having a glycol vaporizer therein, and liquid metering means for supplying glycol to said vaporizer comprising a container for the glycol, a pump in said container, a conduit for delivering glycol from said pump to the vaporizer, and a timed drive for operating said pump to meter the flow of glycol through the conduit.

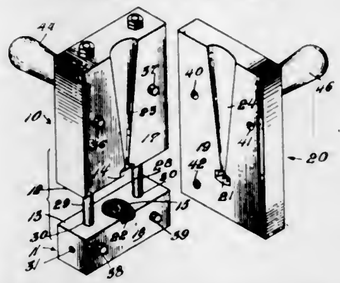
2,664,605
CASTING SODIUM-LEAD ALLOYS
George W. Beste, Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware
Application December 6, 1951, Serial No. 260,178
4 Claims. (Cl. 22—57.3)

1. A drum caster for sodium-lead alloy comprising a drum having a plurality of parallel peripheral grooves in the drum, the grooves having walls diverging away from the drum surface, a parting knife bearing against with respect to the drum for parting a thin layer of alloy from said drum after solidification, a supply tank for molten sodium-lead alloy, the drum being rotatably mounted above said tank to be partially



immersed in the said molten alloy within said tank supply for solidifying an alloy on the surface of said drum and in the grooves in the said drum, and a receiving surface for receiving the thin layer of solidified alloy after parting from the drum.

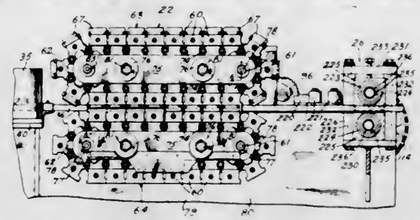
2,664,606
RING MOLD
Vincent J. Di Chiara, Johnston, and Marcel Bruscini, Providence, R. I., assignors to Marvin Co., a partnership
Application December 18, 1951, Serial No. 262,266
4 Claims. (Cl. 22—114)



1. A ring mold comprising two metal block sections having faces contacting with each other in generally a horizontal plane, each with grooves in said contacting faces of a shape to co-operate and form a mold for the shank of a ring, each of said blocks having second contacting faces at generally right angles to the first said faces, and a third metal block section having a face contacting with said second faces of the first two said block sections in generally a vertical plane and provided with a groove registering with said grooves to form a mold for the top of the ring, said third block section and one of said two block sections being recessed to cooperate and provide a vertical gate directly to the junction of said grooves cooperating to form the shank and head of the ring.

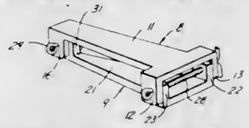
2,664,607
METHOD OF CONTINUOUS CASTING
Joseph L. Hunter, Riverside, Calif., assignor to Hunter Douglas Corporation, Riverside, Calif., a corporation of Delaware
Original application May 17, 1950, Serial No. 162,510, now Patent No. 2,631,343, dated March 17, 1953. Divided and this application March 10, 1952, Serial No. 275,729
1 Claim. (Cl. 22—200.1)

The method of continuously casting metal in bar form, comprising the steps of introducing molten metal into the entrance end of a continuously traveling, power driven mold, rapidly chilling the metal so as to solidify the same into a fine-grained metal bar, said bar being propelled by tractional engagement of the mold walls with the bar, and then engaging the bar beyond the exit end of said mold and positively driving the same at a linear speed substantially corresponding to the speed at which the mold is traveling, less the linear rate of thermal contraction of the cast bar between the point of solidification and the point of driving engagement, the tractive force exerted



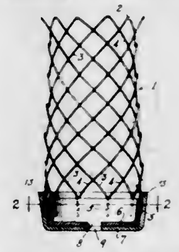
on said bar beyond the exit end of said mold opposing and exceeding the tractive effort of the mold walls, whereby the bar is held back into said mold to an extent such that the metal in the hot-short zone is maintained substantially without tension, and whereby said bar is propelled beyond the exit end of said mold independently of the frictional engagement of the bar by the surfaces of said mold.

2,664,608
TIRE CHAIN CONNECTOR
Harold D. Beck, Caledonia, Ill.
Application July 30, 1952, Serial No. 301,734
5 Claims. (Cl. 24—73)



1. A connector for connecting tire cross chains to the side chains of tire chains comprising two interfitting plate members arranged in superimposed spaced relationship having approximately flat exposed remote sides upstanding interfitting ears on the near sides of the plate members adjacent opposite ends thereof for spacing the plates, the ears at one end being dimensioned for reception within a link of a side chain and the ears at the opposite end being dimensioned for reception within a link of a cross chain and pins extending through the ears at each end of the plates for holding the plates together.

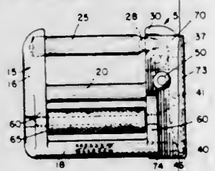
2,664,609
ARTICLE HOLDING DEVICE
Edgar E. Kellems, Pasadena, Calif., assignor to Kellems Company, Stonington, Conn., a partnership
Application December 18, 1948, Serial No. 66,116
17 Claims. (Cl. 24—123)



1. A holder for articles comprising an open meshed wire structure composed of a plurality of

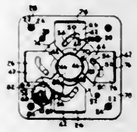
wire strands interwoven about a common axis and having terminal portions extending substantially lengthwise of said structure and disposed in circumferential relation about such axis, the portions of the strands in the body of said wire structure being movable relative to each other to enable such body to be placed in surrounding gripping relation on a portion of an article to be held and the terminal portions of such strands being fixed against movement relative to each other and being substantially shorter in length than the strand portions forming the body of said structure, a coupling for said wire structure including a metal member having an annular wall extending lengthwise of said wire structure and encircling said terminal portions of said structure and said common axis, and an annular metal member disposed within said encircling member so that said terminal portions of said wire structure are located between both of said members, the metal materials of which said members are constituted being in an expanded condition with the metal of said annular member being expanded to a greater extent than the metal of said encircling member to bring the inner surfaces of the former in the spaces between said terminal portions into tight expanded contact with the surrounding wall of said encircling member and to embed said terminal portions in the material of both members, the reactive stresses of the said two members holding said terminal portions embedded in the surfaces of such members against forces acting on the body of said wire structure and said terminal portions being located in depressions formed in the opposed inner surfaces of both of said deformed members and being permanently anchored in fixed relation between both members.

2,664,610
PARACHUTE QUICK-RELEASE DEVICE
Carl H. Hannemann, Los Angeles, Calif.
Application September 30, 1949, Serial No. 118,909
2 Claims. (Cl. 24—201)



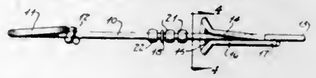
1. In a device for releasably retaining a parachute riser connected to a harness, the combination of a rigid U-shaped frame having a bottom cross portion, a first side portion and an opposite second side portion, a harness engaging cross member mounted at its ends in said side portions, the first of said side portions having a socket opening towards the second side portion, a riser engaging cross member having its inner end releasably fitting in said socket, a keeper pivotally secured at one of its ends to the second side portion, said keeper having a hooked portion releasably engaging the outer end of said riser engaging cross member, a keeper member disposed beside and having its lower end portion spaced from the lower portion of the second side portion, said locking member having its upper end lockably engaging said keeper and being pivoted between its ends to the second side member whereby to disengage from said keeper when the lower end portion of said locking member is moved towards said second side member a plunger carried by said bottom cross portion of the frame and having its outer end engaging said handle portion, spring means urging said plunger against the lower end portion of said locking member whereby to yieldably retain the hooked portion of the keeper in engagement with the outer end of said riser engaging cross member, and a guard member frictionally engaging said second side portion in covering relationship to said keeper and locking member.

2,664,611
FASTENING DEVICE
Kerian J. Shomber, Oakland, Calif., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application April 15, 1952, Serial No. 282,298
9 Claims. (Cl. 24—211)



1. A fastener socket comprising a socket body, a plurality of jaw members mounted within said body and movable between an open and a closed position, operator means for moving said jaw members between said positions, locking means for securing said jaw members in said closed position, maintaining means for holding said jaw members in said open position upon interposed engagement with said jaw members, a first spring means for urging said jaw members into said closed position upon removal of said maintaining means from interposed engagement with said jaw members in open position, and a second spring means for urging said maintaining means into position for maintaining said jaw members in said open position upon the movement of said jaw members into said open position.

2,664,612
FISHLINE SNAP FASTENER
Albert A. Winkelman, Seattle, Wash.
Application March 10, 1952, Serial No. 275,692
1 Claim. (Cl. 24—237)

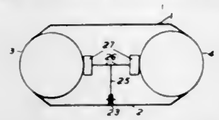


A device of the character described comprising an elongated shaft, a loop formed integrally at the front end of said shaft and having its free end twisted about said shaft, an open-ended loop integrally formed at the rear end of said shaft, an open-ended loop encircling said shaft in spaced relation to the loop at the rear end of said shaft, a leg integrally interconnecting one end of said encircling loop with the loop at the rear end of said shaft, and a leg integrally formed with the other end of said encircling loop, extending substantially parallel to said first-mentioned leg, and having a free end adjacent said rear loop.

2,664,613
MOLDING CORE
Wallace A. Evans, David W. Evans, and Leslie J. Sims, Penarth, Wales; said Sims assignor to said Wallace Alfred Evans and said David Wallace Evans
Application March 13, 1950, Serial No. 149,334
2 Claims. (Cl. 25—128)

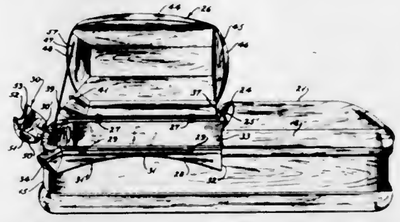
1. A collapsible core for use in moulding hollow concrete and similar members which comprises a pair of oppositely disposed rigid outer members of which at least one member has at each longitudinal edge portion a surface which

is inclined towards and faces the adjacent edge portion of the other member of the said pair, a pair of oppositely disposed rigid inner members each having a curved outer surface and disposed loosely between said outer members, the said inner members being bodily movable apart to cause the said curved outer surfaces to ride on



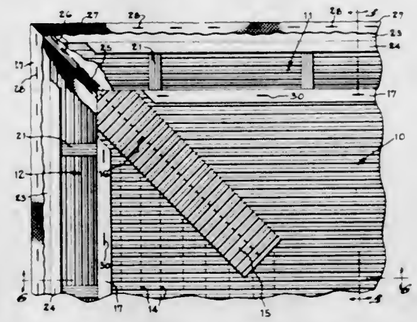
the said inclined surfaces and thereby to force the outer members apart, means limiting the movement apart of the inner members, stop means, means pivotally mounting said stop means on one of the outer members and an actuating member operable from outside the core to move the said stop means into and from a position between the inner members in which the stop means abut on both the members of the inner pair.

2,664,614
CASKET
Frank E. Davis, Louisville, Ky.
Application May 17, 1951, Serial No. 226,810
2 Claims. (Cl. 27—4)



1. A casket having a foot end portion provided with a closed top for the foot end portion thereof and a head end portion capable of being opened, said top for the foot end portion having an end of concave shape in juxtaposition to said head end portion of the casket, said concave end having a surface throughout its width slanting upwardly towards said foot end portion of the casket, said head end portion being lined and comprising; side walls and an end wall; a head cap having a general oval shape throughout a front edge and two ends thereof and having a width substantially equal to the width of the casket; means pivoting said head cap to a side wall to support the head cap in an upstanding position to display the lining on the interior thereof; said head cap having a forward ogee portion with a convex edge and a convex interior surface adjacent thereto lying in a convex plane extending transversely across the casket and providing a supporting surface, an end of convex shape and a convex interior surface adjacent thereto in juxtaposition and complementary to said concave shaped end of the top for the foot end portion of the casket and said slanting surface thereof, and an opposite convex end having a convex interior surface sloping downwardly and inwardly adjacent thereto and providing a supporting surface; a front ogee section; means directly pivoting the front ogee section to another side wall of said casket to permit the same to be pivoted to an open position to display the lining on the interior thereof; said front ogee section having a concave edge for juxtaposition with and of a shape complementary to said convex forward edge and said convex interior surface adjacent thereto on the head cap thereby providing a support for the adjacent surface on the head cap; a head end section; and means pivoting the head end section to said end wall of the head end portion of the casket to permit the same to be pivoted to an open position to display the lining or the interior thereof; said head end section having a concave edge for juxtaposition with and of a shape complementary to said opposite convex end of the head cap and said adjacent convex interior surface at the end of said head cap thereby providing a support for the adjacent surface on the head cap; said slanting surface on the concave end of the top for the lower end portion of the casket, said concave edge on the front section and said concave edge on the head end section supporting said juxtaposed and complementary interior surfaces of said head cap when in closed position, whereby the casket may be used as a hinged panel or a half couch type of casket.

2,664,615
CASKET INTERIOR UNIT
George C. Hillenbrand and Millard J. Laugle, Batesville, Ind., assignors to The Batesville Casket Company, Batesville, Ind., a corporation of Indiana
Application July 24, 1950, Serial No. 175,599
13 Claims. (Cl. 27—19)

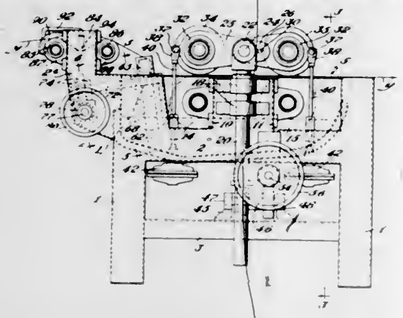


10. In a casket interior unit, a rectangular frame having side and end members, each of said members formed of sheet-like material, each member configurated to display a curved face outwardly and to provide mitred joints at each corner of the frame, inwardly turned flanges at each end of each member, casket lining material covering the outer face of each member including its inwardly turned flanges, and means securing together the inwardly turned flanges of adjoining members at each of the four corners of the frame to constitute a rigid, self-sustaining frame with mitred corners having casket lining material in the mitre crevices.

2,664,616
SLASHER WITH INTERCHANGEABLE PRESS ROLLS
Waldo W. Smith, Warwick Neck, and Lewis A. Prescott, Jr., Pawtucket, R. I., assignors to Tower Iron Works, Providence, R. I., a partnership
Application October 23, 1952, Serial No. 316,364
5 Claims. (Cl. 28—28)

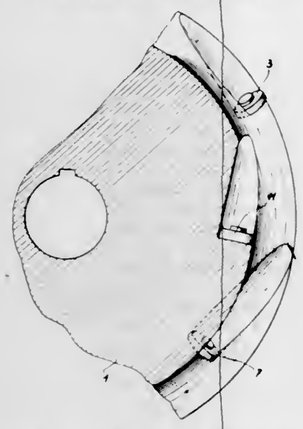
1. In a size box, a pair of relatively fixed rolls horizontally disposed in spaced relation, a pair

of press rolls horizontally disposed in superposed parallel relation to said fixed rolls, and means for interchanging said press rolls relative to said fixed rolls, comprising two vertically movable supporting members disposed on opposite sides of said size box and equidistant from the axes of said press rolls, a pair of oppositely extending arms pivotally connected at one end to each of said supporting members with the opposite free end of each arm rotatably supporting one end of



one of said press rolls, the fixed end of one arm of each pair having an extension juxtaposed to the other arm, means for releasably interlocking said extension and said other arm so that each pair of arms act as a rigid unit in supporting said press rolls when interlocked, and means for elevating and lowering the supporting members so as to raise said press rolls a distance above said fixed rolls to permit said press rolls and interlocked arms to be rotated 180° and then lowered into operative relation to said fixed rolls.

2,664,617
CUTTING TOOL ASSEMBLY
Bruno Kralowetz, Steyr, Austria, assignor to August Saxer, Thawil, Switzerland
Application April 29, 1952, Serial No. 284,850
Claims priority, application Austria December 3, 1951
12 Claims. (Cl. 29—105)



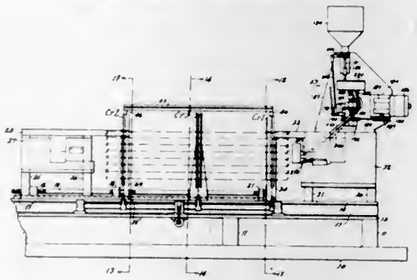
1. A profile milling cutter comprising a cutter head, a plurality of identical, polygonal, cemented-carbide disk teeth spaced in the peripheral direction of the cutter head and overlapping in the direction of the breadth of the cutter head so that each of said disk teeth has a cutting edge portion corresponding to a portion of the profile to be milled, the cutting edge portions of said disk teeth having equal cutting and clearance angles, respectively, part of said disk teeth having their cutting edge portion arranged normal to the peripheral direction of the cutter head and part of said disk teeth having said cutting edge portion arranged laterally in respect of the peripheral direction of the cutter head and being laterally inclined in respect of said peripheral direction, mounting means to mount said disk teeth in said cutter head with fredom of rotation, and means to set each of said disk teeth in different positions relative to said mounting means

9. A profile milling cutter comprising a cutter head and a plurality of disk teeth spaced in the peripheral direction of the cutter head and overlapping in the direction of the breadth of the cutter head so that each of said disk teeth has a cutting edge portion corresponding to a portion of the profile to be milled, the cutting edge portions of said disk teeth having equal cutting and clearance angles, respectively, each of said disk teeth comprising an eccentric bearing bushing rotatably mounted in the cutter head, a cemented-carbide ring rotatably mounted on said eccentric bushing, and means to set said ring in different positions relative to the eccentric bushing and to set said eccentric bushing in different positions relative to said cutter head.

2,664,618
ELECTRICAL CONTACT
John D. Kleis, Lake Forest, Ill., assignor to Fansteel Metallurgical Corporation, North Chicago, Ill., a corporation of New York
No Drawing. Application April 22, 1944, Serial No. 532,377
4 Claims. (Cl. 29—182.5)

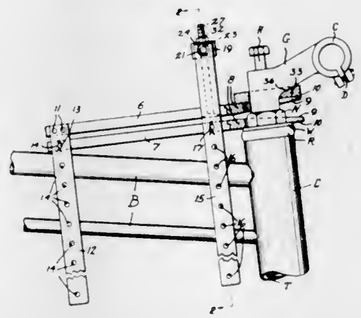
1. An electrical contact suitable for use in apparatus such as relays, switches, circuit breakers and the like, wherein an appreciable contact pressure is used, said contact having an electrical contact surface and being made of a compacted, sintered and non-porous composition containing silver, molybdenum oxide in an amount up to about 50% by weight of the silver, and carbon in an amount up to about 5% by weight of the contact composition.

2,664,619
TUBE FLARING AND NUT ASSEMBLING MACHINE
Rea I. Hahn and Charles M. Franklin, Rochester, N. Y., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 23, 1947, Serial No. 743,334
6 Claims. (Cl. 29—241)



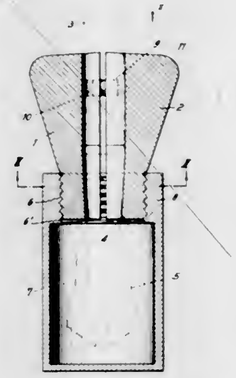
1. In apparatus for assembling coupling nuts with tubing, mechanism for segregating and feeding nuts having in combination a hopper feed having a hopper for receiving nuts, each having a wrench-flange at one end thereof, a discharge tube through which the nuts gravitate from the bottom of the hopper and means for dislodging the nuts to cause them to enter the tube, a nut-segregating device for receiving nuts from the discharge tube of the hopper feed and comprising a fixed horizontal plate with two discharge holes therein, delivery pipes connected respectively with said holes, a rotatable plate having holes, each for receiving a nut dropping from the discharge tube upon the fixed plate, means for rotating the plate, members carried by the rotatable plate and each normally positioned so as to extend into a hole in the rotatable plate and to retain in the hole a nut which descends wrench-flange end up by engaging the underside of the wrench-flange, the nut which descended wrench-flange end down into a hole in the rotatable plate being free to gravitate through the first hole in the fixed plate at which said last mentioned nut arrives during its travel with the rotatable plate, and means for retracting each retaining member by the time that a nut with its wrench-flange-end up arrives at the second hole whereby it is free to gravitate through the second hole.

2,664,620
EXPANSION TOOL
Allen G. Beasley, Spokane, Wash., assignor to Charley W. Beasley, Spokane, Wash.
Application July 28, 1951, Serial No. 239,139
2 Claims. (Cl. 29—256)



1. An expansion tool comprising upper and lower levers having bifurcated heads on their forward ends; vertical side bars extending above and below said levers one on each side thereof and disposed spaced rearwardly from the heads intermediate the lengths of the levers; a cross head trunnioned between upper ends of said side bars; said cross head having an opening extending laterally therethrough; said upper lever having an arcuate socket in its lower face and a vertical bore extending through said lever and communicating with said socket; a threaded rod having a head rockably seated in said socket and its shank extending loosely through said bore and the opening of said cross head; a nut threadedly engaged on said rod above said cross head, whereby rotation of the nut raises and lowers the upper lever; said side bars having a series of vertically spaced axially aligned horizontal apertures; said lower lever having a laterally disposed aperture adapted to be axially aligned with a selected horizontal pair of said first named apertures; a pin removably extending through the aligned first and second named apertures to secure said lower lever in selective spaced relation to said upper lever; hinge bars secured at their upper ends to the rear end portion of said upper lever and depending therefrom; said hinge bars having a series of vertically spaced axially aligned horizontal apertures; said lower lever having a laterally extending aperture at its rear end and disposed to be axially aligned with said hinge bar apertures; and a rod extending through the last named aligned apertures to pivotally secure the lower lever to said hinge bars.

2,664,621
DRILL BIT REMOVER
Heinrich Bartholomae, Herne, Germany, assignor, by mesne assignments, to Firma Dipl.-Ing. Friedrich Heinrich Flottmann, Bochum, Germany
Application May 23, 1950, Serial No. 163,617
2 Claims. (Cl. 29—275)

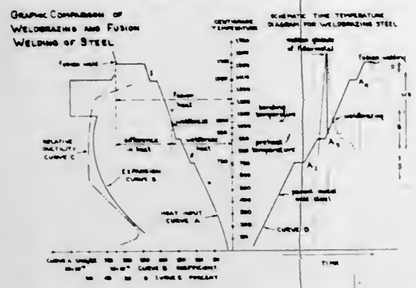


1. A device for removing drill bits from drill rods by impact comprising, at least two clamping segments adapted to be loosely fitted around the drill rod and in engagement with the drill bit, each segment having a blow receiving surface at one end and a surface at the other end adapted to contact the drill bit, a coupling member to radially engage said clamping segments to maintain them in position on the drill rod and having a receptacle thereon to surround the drill bit, said coupling member holding the device on the drill bit and by applying force on the said other end of the segments the latter with the coupling member and receptacle will be removed from the drill rod with the drill bit in the receptacle.

2,664,622
METHOD OF EFFECTING NONFUSION WELDS WITH A STEEL WELDROD
Karl Spitz, Cleveland, Ohio
Application March 2, 1950, Serial No. 147,247
15 Claims. (Cl. 29—366)

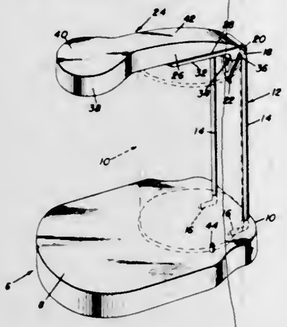
1. A method of effecting the non-fusion weld of a base metal with a steel weldmetal, wherein said base metal is selected from the group consisting of ferrous metals and brazable non-ferrous metals, comprising the steps of preheating said base metal to an elevated temperature below the solidus of said base metal, melting said weldmetal, depositing said weldmetal in the weld-zone to produce a resultant bonding temperature of said base metal which is below the solidus of said base metal, substantially concurrently

introducing into the weldzone molten low-melting eutectiferous phase-forming elements in sufficient quantity to create an intermediate alloy phase having affinity for the weldmetal and base



metal and surface tension-reducing elements for increasing the fluidity of the weldmetal, and maintaining said base metal at said resultant bonding temperature to completion of the weld.

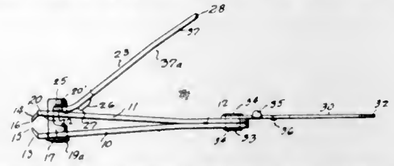
2,664,623
BEER CAN PUNCH
George D. Conley, Sweetwater, Tex.
Application July 31, 1952, Serial No. 301,827
3 Claims. (Cl. 30—10)



1. A beer can racking, holding, and punching device comprising, a base, a U-shaped standard having limbs vertically disposed and anchored at their lower ends on said base and having a bight portion at its upper end, said bight portion providing a journal, said limbs being spaced apart and the intervening space permitting a segmental portion of the beer can, when resting atop said base, to fit in the space to assist in racking the can in the exact needed place for retention and steadied punching, a stabilizing pin on said base cooperating with one of said limbs, a lever, and a beer can punch having a shank attached to said lever, said shank having an assembling and hinging bend pivotally attached to said bight portion.

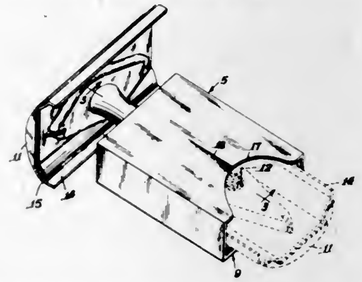
2,664,624
NAIL CLIPPER
William E. Bassett, Woodbridge, Conn.
Application July 5, 1950, Serial No. 172,077
4 Claims. (Cl. 30—28)

1. The combination in a nail clipper of relatively movable jaw members, a jaw operating cam lever having a cross bar adjacent one end, means connecting said lever to said jaw members including a pin having a transverse slot therein intermediate the ends and extending loosely through aligned openings in said jaw members and having a head on one end engaging one of said jaw members, the side of the slot in said pin away from said head being undercut to provide a slot extending toward the end of said pin away from said head and being generally parallel to the axis of said pin to rotatably receive said cross bar and hold said lever in operative engagement with the other of said



members, said other jaw member operatively closing said transverse slot sufficiently to retain said cross bar therein in both normal open and closed positions of said jaw members and being sufficiently flexible to permit displacement thereof to operatively open said slot for insertion or removal of said cross bar only upon the application thereto of greater than normal operating jaw-closing pressure.

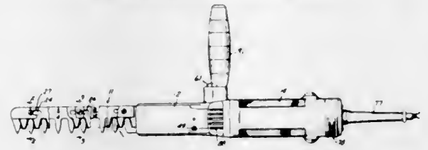
2,664,625
SAFETY RAZOR
Edward Van Koughnet, Beaurepaire, Quebec, Canada
Application May 2, 1951, Serial No. 224,143
2 Claims. (Cl. 30—47)



1. A safety razor comprising a handle member in the form of a hollow rectangular casing closed at one end and open at the other end and provided with a threaded socket projecting outwardly from the closed end, said casing being made of sheet material of such thinness and flexibility that inward pressure on the side walls of the casing is effective to bulge the top and bottom walls of the casing outwardly from each other to increase the distance between said top and bottom walls, and a razor head embodying a clamping plate and a guard for clamping a razor blade therebetween, said clamping plate being provided with a threaded stud which, in the assembled position of the clamping plate and guard, passes outwardly through an opening in the latter for screw-threaded engagement with the threaded socket carried by the closed end of the casing, said clamping plate and stud being dimensioned so that the distance from the free end of the stud to the remote side of the clamping plate is greater than the distance between the opposing surfaces of the top and bottom walls of the casing when said walls are in their normal positions so that when the assembled clamping plate and guard of the razor head are forced into the casing, the top and bottom walls of the casing are

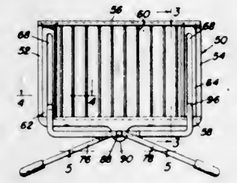
bulged outwardly by contacting portions, of the stud and clamping plate of the head and are thereby caused to exert gripping pressure on these head portions to securely retain the head in the casing, said gripping pressure being releasable or reducible by applying inward pressure to the side walls of the casing to effect a further outward bulging of the top and bottom walls, and said top and bottom walls of the casing being creased to provide a central longitudinally extending guide groove in the inner surfaces thereof for centering the head in spaced relation to the side walls of said casing.

2,664,626
HEDGE TRIMMER
Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application February 16, 1948, Serial No. 8,579
4 Claims. (Cl. 30—123)



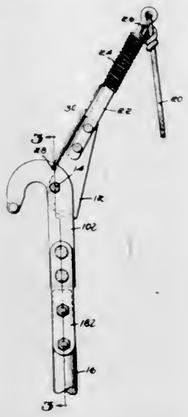
1. In a trimmer for cutting hedges and the like, the combination of a support, a cutter mechanism mounted on said support, a motor mounted on said support having a shaft with a worm formed thereon, a crank assembly, a link connected between said crank assembly and said cutter mechanism for actuating the latter, a worm wheel mounted to be driven by said worm, said wheel having a generally frusto-conical shaped surface formed on one side, a spring pressure plate adjacent said surface in driving relation with said crank assembly, a synthetic resin disc disposed between said plate and said surface, and means acting between said plate and said wheel for securing the disc therebetween to form a driving connection between the wheel and the crank assembly, said disc permitting relative movement between the worm wheel and said plate when a predetermined overload is applied to the cutter mechanism.

2,664,627
RECTANGULAR HEDGE CUTTER
Max Friedman, New York, N. Y., assignor of one-third to Nell Spiegel and one-third to Barbara Friedman, New York, N. Y.
Application September 12, 1950, Serial No. 184,412
3 Claims. (Cl. 30—211)



1. A hedge cutter comprising a rectangular closed frame having transverse end members and longitudinally grooved side members, rods fixed in said side members transversely of said frame in laterally spaced relation and forming with said frame a grid for projection of leaves and twigs of the hedge through said grid, cutter blade members extending transversely of said frame with ends slidable in said grooves for sliding movement of said cutter blade members toward and from each other transversely of said rods and having confronting cutting edges coacting with said rods to cut said twigs and leaves during movement of said cutter blade members toward each other, said cutting edges mutually coacting to cut when said cutter blade members are moved into close together relation, and a pair of tongs pivoted on one side member and slidably connected to said cutter blade members for opening and closing to move said cutter blade members away from and toward each other respectively.

2,664,628
POLE PRUNER HEAD
Thomas M. Porter, Brookline, Mass., assignor to H. K. Porter, Inc., Somerville, Mass., a corporation of Massachusetts
Application November 16, 1951, Serial No. 256,736
2 Claims. (Cl. 30—249)

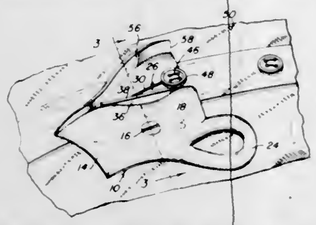


1. A cutter head for pole pruners comprising a member of general inverted J form the curve of the J providing a work-engaging portion, a flat blade pivoted adjacent the upper end of the stem of the J and having an edged portion to sweep across the throat of the J to effect a cut in cooperation with said work-engaging portion, a straight bar-like lever arm rigidly associated with the blade and extending rearwardly therefrom and means for normally moving the blade to open position comprising a cylindrically coiled extension spring, the coils of which closely encircle the lever arm which arm extends through the spring substantially coaxially therewith, the ends of the spring being anchored respectively to the outer end of the lever arm and to the upper portion of the J-shaped member at a point remote from the pivot.

2,664,629
BUTTON REMOVER
John Pawelczak, San Diego, Calif.
Substituted for abandoned application Serial No. 36,655, July 2, 1948. This application January 26, 1953, Serial No. 333,034
1 Claim. (Cl. 30—294)

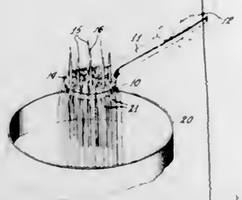
In a button remover, the combination of a base plate provided with a slot having an open outer end and a pair of inwardly convergent longitudinal edges, a cutter blade secured to said

plate and having a cutting edge extending obliquely of said slot whereby one longitudinal edge and an inner portion of the second longitudinal edge of the slot are covered by the blade, the remaining outer portion of said second longitudinal edge of the slot being curved inwardly toward said cutting edge for guiding a button holding thread against the latter, and an up-



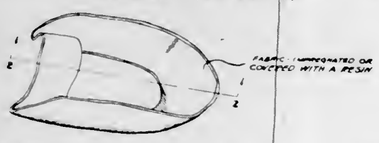
standing flange provided on said plate adjacent to but spaced from said second longitudinal edge, said flange being curved inwardly toward the inner end of said slot and having a sharper curvature than said outer portion of said second longitudinal edge, whereby a button to be severed may be guided by said flange in assistance to the guiding of the stated thread.

2,664,630
CULINARY DEVICE
Grace Lawson, Los Angeles, Calif.
Application January 12, 1951, Serial No. 205,675
2 Claims. (Cl. 30—322)



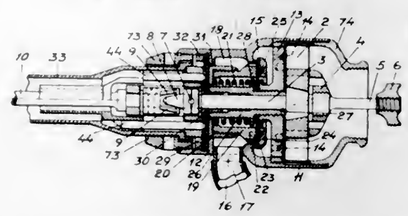
1. A culinary device of the character described for gathering and dispensing strands of food products, said device having: a handle; a circular wooden base integral with said handle, said base providing a minutely roughened supporting area for said strands; and a plurality of wooden prongs mounted in bores in said base, said prongs being arranged in a circle inward from the periphery of the base, each of said prongs diminishing in cross-section with a rounded taper to a relatively narrow outer end.

2,664,631
CUSHION FOR ARTIFICIAL DENTURES
Julius Hollander, Yeadon, and Bernard S. Sabreen, Philadelphia, Pa.
Application November 2, 1946, Serial No. 707,434
7 Claims. (Cl. 32—2)



1. A cushion for an artificial denture consisting of a relatively thin layer of cloth of substantially U-shape impregnated with a thermoplastic resin selected from the group consisting of vinyl acetate resins, styrene resins and methacrylate resins.

2,664,632
PNEUMATIC DENTAL MACHINE
Per I. Norlén, Stockholm, Sweden
Application April 7, 1952, Serial No. 280,911
10 Claims. (Cl. 32—26)



1. A dental engine comprising a hand piece, a burr drive shaft rotatably mounted within said hand piece, a turbine casing connected to said hand piece, a turbine rotor comprising a turbine wheel and a turbine shaft rotatably mounted within said turbine casing, a driving connection between said turbine shaft and one end of said burr drive shaft, means for attaching a burr to the other end of said burr drive shaft, a compressed air inlet to said turbine casing between said turbine wheel and said hand piece, a valve in said turbine casing between said air inlet and said turbine wheel and manually operable means at said hand piece connected to control the opening of said valve.

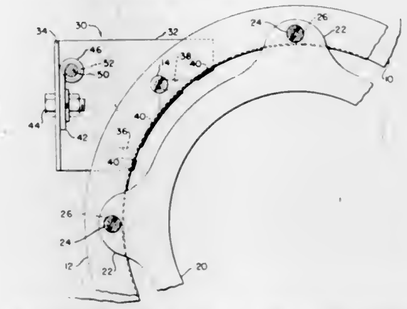
2,664,633
SKIRT MARKER
Harold A. Reich, New York, N. Y.
Application April 11, 1952, Serial No. 281,829
5 Claims. (Cl. 33—9)



1. A skirt marker comprising an upright tubular case having a base for supporting the same in upright relation, a pair of self-straightening tape rules loosely confined in corresponding U-shaped loop formation within said case, means supporting said rules at one side of the loop formation and means for guiding said tapes at the other side of the loop formation, up through the top of the case and for holding said rules

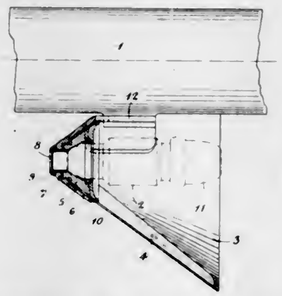
closely confined together, with one reinforcing the other both in the loop formation and in the portions extended up through the top of the casing.

2,664,634
POSITION INDICATOR FOR AUTOMOBILES
Thomas P. Giblin and William A. Erdon, Pawtucket, R. I.
Application January 27, 1951, Serial No. 208,122
2 Claims. (Cl. 33—46)



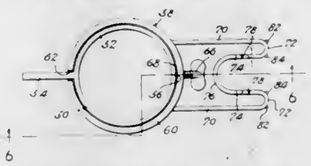
1. A position indicator for use in combination with an automobile fender having an annular headlight mount and fasteners securing said mount to an opening in said fender, comprising a bracket having a thin flat member curved at one edge to substantially the curvature of the fender opening and slotted to engage one of the fasteners securing the mount to the fender, said member being dimensioned to occupy less than a quadrant of the annular mount, inturned flanges disposed upon the margin of the curved portion of the bracket member, said flanges engaging the edge of the opening in the fender, and a sight bar secured to said bracket member.

2,664,635
SIGHT FOR ROCKET LAUNCHERS
Edgar William Brandt, Geneva, Switzerland, assignor to Anstalt für die Entwicklung von Erfindungen und Gewerblichen Anwendungen "Energa," Vaduz, Liechtenstein, a holding company
Application July 31, 1951, Serial No. 239,478
Claims priority, application Switzerland August 8, 1950
1 Claim. (Cl. 33—50)



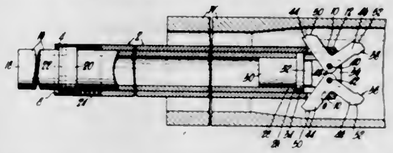
In combination with a rocket launcher having a telescope support, a sighting telescope mounted on said support, and a shield mounted on the telescope support coaxially with the telescope, said shield being of generally conical shape and widening out from the front to the rear and having a transparent portion, the apex of said shield being provided with a glass disc to protect the objective lens of said telescope.

2,664,636
LINE HOLDER
Kenneth E. Schneider and Gerald W. Schneider, Borger, Tex.
Application May 26, 1952, Serial No. 289,988
4 Claims. (Cl. 33—85)



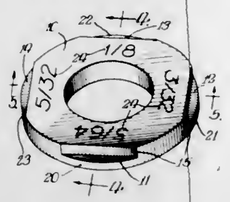
1. In a line or cord holder a standard adapted to be supported in a vertical position adjacent a corner of a building, a carriage mounted on said standard to move vertically thereon, means carried by the carriage for engaging the standard and holding said carriage at a selected height on said standard, spaced parallel elongated arms carried by the sleeve, a yoke carried by the arms adjacent the ends thereof remote from the sleeve, said yoke extending between the arms toward the sleeve and having guide line receiving slots extending therethrough intermediate the ends thereof.

2,664,637
GAUGE FOR INTERNAL UPSETS
Anthony M. Cataldo, Ellwood City, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application January 4, 1951, Serial No. 204,345
6 Claims. (Cl. 33—125)



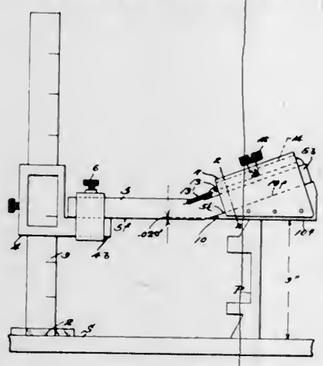
4. Apparatus for measuring the length of an internal upset in a tube comprising an elongated supporting member, an elongated bar mounted for slidable movement on said supporting member, two pairs of spaced abutments on one end of said supporting member disposed transversely of said bar, a pair of substantially L-shaped members pivotally mounted on one end of said bar, one leg of each of said L-shaped members projecting at an angle to the longitudinal axis of said bar between each of said pairs of abutments and the other leg of each of said L-shaped members projecting from the end of said bar whereby longitudinal motion of said bar in one direction relative to said supporting member causes said first named projecting legs to move into aligned position normal to the longitudinal axis of the bar and said end projecting legs to move into position abutting each other parallel to the longitudinal axis of the bar to maintain said first named legs in aligned position, and motion of the bar in the opposite direction acts to move said end projecting legs away from each other and said first named legs to retracted position, and means on the end of said bar opposite said L-shaped members for urging said bar in the direction away from said abutments.

2,664,638
GAUGE
Clifford G. Storey, Hagerstown, Ind., assignor to Perfect Circle Corporation, Hagerstown, Ind., a corporation of Indiana
Application October 6, 1951, Serial No. 250,133
1 Claim. (Cl. 33—168)



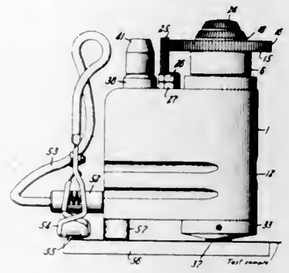
A gauge for gauging piston ring grooves in a piston, comprising a disk having a plurality of circumferentially spaced segment shaped cuts of predetermined radial width extending chordally across the disk and of different depths to reduce the thickness of the edge portion of the disk at said cuts to predetermined different amounts, thereby forming lip portions on the disk of different thicknesses adapted for insertion into the grooves to be gauged, said cuts forming straight shoulders on the disk adapted to engage the periphery of the piston when a lip portion is fully inserted into a groove, whereby the lip portion may be inserted in the groove sufficiently to extend beyond any bell mouthing of the groove but insufficiently to reach the unworn portion of the groove, the lip portions on opposite sides of any one lip portion being back of the shoulder for said one lip portion so as to clear the piston when said one lip portion is inserted in a groove.

2,664,639
ADJUSTABLE TOLERANCE GAUGE
Caleb Denny, West Los Angeles, Calif.
Application October 8, 1951, Serial No. 250,284
6 Claims. (Cl. 33—169)



1. A vernier height gage comprising, in combination: a column, a reach arm extending horizontally from a side of the gage column and having at an angle to its bottom face an upwardly directed guide face, a gage shoe slidably fitted and bearing on said face, and means for rigidly fixing the shoe at a desired position of adjustment along the guide face; the bottom of the shoe constituting a horizontal work or piece contact plane and the exposed portion of said guide face constituting a stop shoulder for given work pieces, being inspected, passable under the said shoe bottom if said pieces are within a given tolerance as determined by a setting of said shoe back from the bottom face of said arm.

2,664,640
MICROMETER FOR MEASURING THIN INSULATION
Maynard R. Euverard, Short Hills, N. J.
Application April 17, 1951, Serial No. 221,425
4 Claims. (Cl. 33—172)

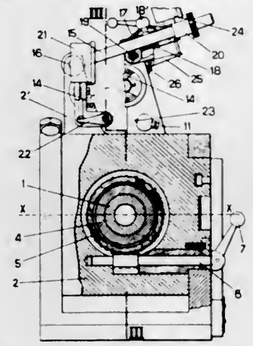


1. In a gage of the penetrating needle type for measuring the thickness of an electrically nonconductive film upon the surface of a base of electrically conductive material wherein contact between the needle and conductive base serves to close an electrical circuit for energizing a signal device, the combination comprising a gage body having a threaded bore extending longitudinally therein, a barrel having external threads engaging the threads in said bore and internal threads of the same hand as said external threads but of a different pitch engaged with external threads of a stem disposed within said barrel to establish a differential compound action between said barrel and stem effecting a relative axial displacement therebetween in opposite directions proportional to the difference in pitch between the external and internal threads on said barrel, a collar on said stem having a plurality of circumferentially spaced recesses extending radially inward from the periphery thereof, a removable locking pin extending through a transverse slot in the wall of said gage body into a selected one of said collar recesses, said slot being elongated in a direction longitudinally of said bore and said pin being sized to the width of said slot to restrain said stem against rotary movement and thereby effect displacement of the stem longitudinally of its axis upon rotation of said barrel, a needle depending from the lower end of said stem and adapted to be projected outwardly of said gage body, a tool socket in the upper end of said stem, said barrel having an axial bore providing access to said socket, a graduated dial carried by said barrel, means for adjusting said dial relative to said barrel, and a witness mark for said dial carried by said gage body.

2,664,641
INDEXING DEVICE
Arsène Parnet, Paris, France
Application July 17, 1946, Serial No. 684,230
In Germany April 4, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires April 4, 1961
12 Claims. (Cl. 33—174)

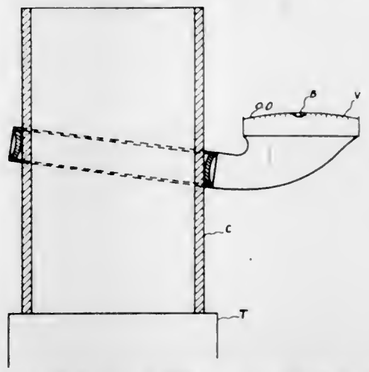
1. A device for imparting accurate angular movements to a rotatively mounted member, said device comprising: a fixed element in which

said rotatively mounted member is mounted; clamping means for axially clamping said fixed element to said member; a movable arm, said arm being pivotally mounted upon said member; conical tapered means on said fixed member; other conical tapered means complementary to said conical tapered means on said rotatively mounted member adapted to frictionally engage said first means; means for axially moving said rotatively mounted member to produce frictional



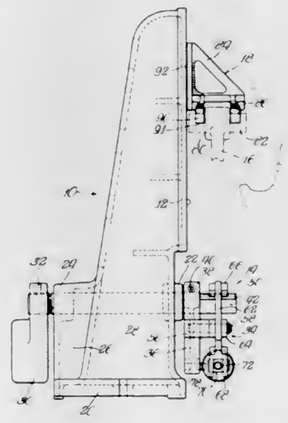
engagement of said first and second conical means whereby said fixed element and said rotatively mounted member are clamped together without angular movement through clamping; and means for connecting by axial clamping said rotatively mounted member with said movable arm whereby predetermined angular movements of said arm might be given said rotatively mounted member without decreasing accuracy due to angular movements when clamping is effected.

2,664,642
GAUGE FOR MEASURING OR COMPARING DIAMETERS OF CYLINDRICAL BODIES
John Rae, Sydney, New South Wales, Australia, assignor of one-half to Blaxland Rae Pty. Limited, Sydney, New South Wales, Australia, a corporation of New South Wales
Application July 14, 1951, Serial No. 236,756
Claims priority, application Australia July 14, 1950
10 Claims. (Cl. 33—178)



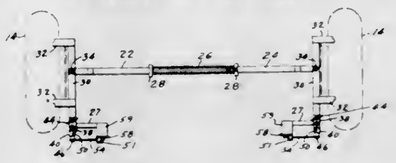
2. A gauge for measuring or comparing diameters of cylindrical bodies comprising a ring having a contact diameter larger than the diameter to be gauged, being substantially D shaped in cross section with the arcuate portion constituting the working face and having a substantial depth relative to its radial thickness so that it is flexible diametrally and means for measuring the movement in tilt of the ring when the contact surface of the ring closely engages the periphery of the body to be gauged.

2,664,643
CONNECTING ROD ALIGNMENT GAUGE
Henry Robert Billeter, Highland Park, Ill., assignor to Ammco Tools, Inc., North Chicago, Ill., a corporation of Illinois
Application June 20, 1952, Serial No. 294,616
1 Claim. (Cl. 33—180)



A connecting rod alignment gauge comprising a stand, an arbor mounted in said stand and having one end extended laterally therebeyond, the extended end of said arbor having a cut-off portion forming a chord surface and having a hard wear-resisting element secured on said chord surface with ears projecting laterally beyond the side edges of said chord surface, said extended end being adapted for mounting a connecting rod thereon in such position that the connecting rod bearing at least partially surrounds the arbor and engages said ears, and means including clamp jaws operably mounted on said arbor for clamping the bearing between themselves and the arbor and arranged for exerting force on the bearing at points adjacent said ears and in directions substantially toward the central axis of the arbor, the connecting rod when so mounted extending from the arbor, with its extended end adjacent the stand.

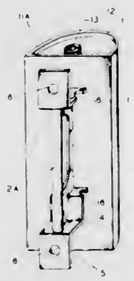
2,664,644
TOE-IN CHANGE INDICATOR FOR AUTOMOBILES
David J. Tyerman, Burbank, Calif.
Application January 26, 1952, Serial No. 268,451
2 Claims. (Cl. 33—203.2)



1. A toe-in indicator for automobiles comprising: a pair of substantially aligned, relatively slidable bars; each of said bars being provided with stop means; a coil spring mounted on said

bars and abutting said stop means to constantly bias said bars apart; each of said bars being provided at its outer end with a bifurcated member pivoted to the end of its associated bar at a point midway of said bifurcated member; the ends of said bifurcated members providing wheel engaging members adapted to engage the wheels of a vehicle in a substantially horizontal plane when said indicator is placed in position between the wheels of a vehicle; each of said bars adjacent its end having a forwardly directed extension fixed thereon; bearing means carried by said extension; a pin journalled in said bearing means having an axis intersecting the pivot axis of its associated bifurcated member; a bracket carried by said extension, a vertically disposed scale carried by said bracket; a pointer mounted on said pin and associated with said scale; a substantially vertically extending arm fixedly carried by said pin; each of said bifurcated members having substantially forwardly directed extensions associated with said bar-carried-extension; adjustable means carried by said bifurcated member extensions and adapted to engage said arm to rotate said pin to move said pointer with respect to said scale on pivotal movement of said bifurcated member.

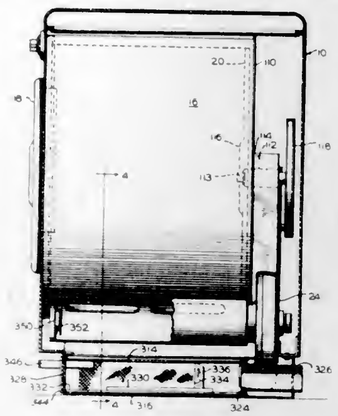
2,664,645
LIQUID LEVEL
Alfred A. Qualman, Charleston, Oreg.
Application July 30, 1952, Serial No. 301,691
4 Claims. (Cl. 33—209)



3. An article for determining and maintaining level of a liquid, comprising a container formed in its top and bottom with openings, a hose connected to and communicating with the opening in the bottom of the container, an upper flange extending from the container and having its free end bent upwardly to provide a depression, a lower flange extending from the container and having its outer end bent downwardly, the said lower flange being intermediately bent downwardly to form dual depressions the sides of the upper and lower flanges having aligned notches to form seats for the hose, a vertical bar connecting the two flanges, the flanges having openings to receive supports for the container.

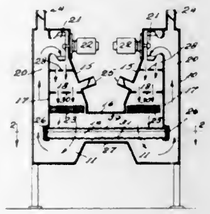
2,664,646
DRYING APPARATUS
Howard L. Bourner, Nashville, Tenn., assignor to Temco, Inc., Nashville, Tenn., a corporation of Tennessee
Application October 5, 1950, Serial No. 188,610
4 Claims. (Cl. 34—82)

1. In drying apparatus, a drying chamber, manifold means having main air inlet means communicating with the chamber, pump means communicating with one end of the manifold for moving a drying medium from the chamber into the manifold, and means for preventing an accumulation of lint in the opposite end of the manifold, said means comprising relatively re-



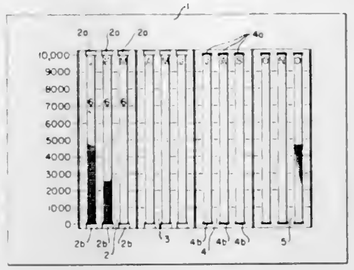
stricted minor air inlet means in the said opposite end of the manifold, and baffle means in proximity to said minor inlet, to direct incoming air into the adjacent corners of the manifold to move lint out of said corners.

2,664,647
APPARATUS FOR DRYING STOCKINGS IN STACKS
Harry S. Drum, Abington, Hugo F. Liedtke, Philadelphia, and Joseph Schmitz, Jr., Crestmont Farms, Pa., assignors to Smith, Drum & Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 3, 1951, Serial No. 204,102
3 Claims. (Cl. 34—196)



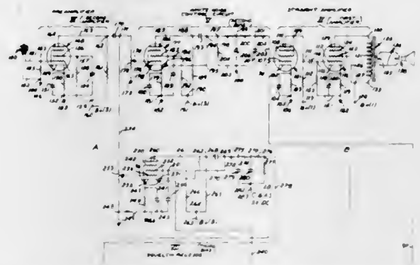
1. A hosiery drying apparatus comprising the combination of a housing forming a chamber, means in said chamber for producing two generally parallel streams of heated air moving in the same direction and spaced substantially by the length of the leg portion of a stocking, a tray removable from said chamber for supporting a stocking-shaped preboarded stack of stockings, with the feet and welts respectively in the path of said streams and the leg portion between said streams, a reticulated bottom in said tray for the passage of said streams, means to support said tray in treating position in said chamber, and means above and below said tray and spaced by the leg supporting portion of said tray for diverting said streams respectively across the welt and foot portion of the stocking to restrict stream flow across the leg portion, whereby the welts, the legs, and the feet of the stockings are dried in the same time interval.

2,664,648
GRAPHIC RECORDING DEVICE
Louis C. Young, Bolton, Mass.
Application March 2, 1951, Serial No. 213,606
1 Claim. (Cl. 35—24)



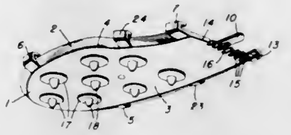
A data presentation device comprising a rectangular frame, grooves along two opposing longitudinal interior edges of said frame, a plurality of panels within said frame, a plurality of pins extending from each of two opposite edges of each panel, said pins engaging said grooves and retaining said panels within said frame, opposed slots in at least one side of said grooves at opposite ends of said frame adapted to allow removal and introduction of said pins from said grooves whereby said panels are transposable continuously in a predetermined sequential order by insertion and removal at opposite ends of the frame longitudinally thereof, and data indicators on said panels.

2,664,649
APPARATUS FOR SPEECH INSTRUCTION
William S. Howell, Minneapolis, Minn., and John V. Irwin, Madison, Wis., assignors to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
Application March 9, 1951, Serial No. 214,668
8 Claims. (Cl. 35—35)



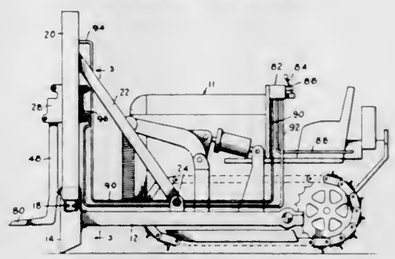
1. An apparatus for teaching speech comprising electronic means for generating a noise signal of mixed frequencies in the audio range, amplifying means connected thereto and sound reproducer means connected to the amplifying means for producing an audible noise corresponding to said noise signal, a microphone, means connected to the microphone and responsive to the level of signal produced by said microphone for forming a biasing signal, the level of which varies with the level of signal from said microphone, said means for producing a biasing signal being connected to said amplifier for biasing said amplifier to minimum output when the microphone signal exceeds a predetermined amount and for relieving said bias of said amplifier when the microphone signal does not exceed said minimum amount.

2,664,650
AUXILIARY ANTISLIPPING SOLE
Mitchell Sabbagh, Quincy, Mass., assignor of one-half to Hyman Greenblatt, Newton Highlands, Mass.
Application November 13, 1952, Serial No. 320,177
3 Claims. (Cl. 36—7.7)



2. An auxiliary antislipping sole adapted to be removably attached to a shoe comprising a flexible sole shaped member having a bottom surface tapered adjacent its edges, integral ground gripping projections on the bottom surface of the member, sole engaging lugs integral with the member at its edges for gripping the sole of a shoe, a rearwardly extending lever pivotally attached to the top surface of the member to the rear of the break line of the shoe, and a link pivoted to the lever and having integral therewith a sole engaging lug, said sole member having a plurality of notches at its rear edge for receiving said lever and securing the sole on the shoe against movement.

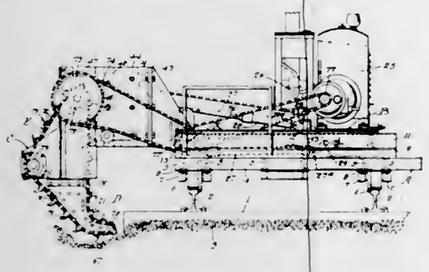
2,664,651
COMBINED SCARIFYING AND DIGGING ATTACHMENT FOR BULLDOZERS
James P. Woodward, Prospect Plains, N. J.
Application February 1, 1952, Serial No. 269,363
5 Claims. (Cl. 37—2)



1. In combination with the blade assembly of an earth moving machine, said blade assembly including a blade having a lower cutting edge, a digging and scarifying attachment for said machine comprising an upstanding support frame including a pair of parallel roller guides rigidly connected at their lower ends to said blade assembly, a stiffener frame assembly formed as an elongated rigid body extending transversely between said guides and rollably mounted at its ends thereupon for adjustment vertically of the guides, a plurality of depending digging tines rigidly connected at their upper ends to the stiffener frame assembly and having their lower ends projecting forwardly from the blade assembly, a series of ribs mounted on the blade assembly in parallelism with the tines, rollers carried by the tines in rollable contact with said ribs, said tines rolling upon said ribs conjointly with rollable movement of the stiffener frame assembly on the guides between opposite extreme positions in one of which the tines are elevated above the cutting edge of the blade and in the other of which the tines are disposed below said edge, and means

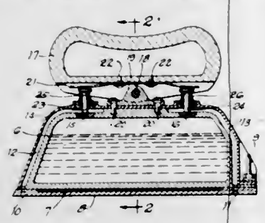
connected at opposite ends to the blade assembly and stiffener frame assembly respectively and arranged for control by an operator for effecting said adjustment of the tines to selected positions relative to the support frame and blade assembly.

2,664,652
METHOD OF REMOVING BALLAST WITH A VERTICAL BOOM CRIBBING MACHINE
Henry H. Talboys, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 8, 1949, Serial No. 103,676
1 Claim. (Cl. 37—195)



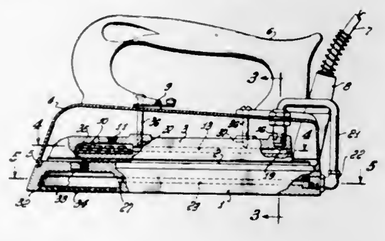
A method of removing ballast and forming a longitudinal trench adjacent but beyond the tie ends of a railway track or the like with an excavator element movable in a plurality of directions which includes the following steps: moving the excavator element along an excavation path which extends initially downwardly, then inwardly a distance less than the desired width of the trench, then downwardly a distance equaling approximately the desired depth of the trench, then outwardly a distance equaling approximately the desired width of the trench, and then upwardly; slowly lowering the excavator element until the inward portion of the path is approximately coincident with the surface of the ballast with the downward digging portion of the path beyond the tie ends while at the same time continuously moving the excavator element through the path longitudinally along the track to thereby excavate a trench of the desired depth adjacent but beyond the tie ends.

2,664,653
STEAM AND DRY IRON
Jacob D. Voskresenski, Chicago, Ill.
Application August 17, 1951, Serial No. 242,294
5 Claims. (Cl. 38—77)



1. A combination steam and dry iron comprising a body having a water chamber therein and front and rear steam chambers about the water chamber spaced therefrom by a wall, a bottom plate having a forward portion formed with openings communicating with the front steam chamber and a rear portion formed with openings communicating with the rear steam chamber, a heating unit for heating the bottom plate and water in the water chamber, said wall having at its top a front opening connecting the front steam chamber with the water chamber and a rear opening connecting the rear steam chamber with the water chamber, front and rear valves individually movable downwardly into closing relation to the front and rear openings, spring means urging said valves upwardly out of closing relation to the openings, a handle over said body pivoted between the valves for rocking movement and having a front portion overhanging the front valve and a rear portion overhanging the rear valve and when rocked in predetermined directions out of a horizontal position serving to hold one valve closed while allowing the other valve to move upwardly to an opened position.

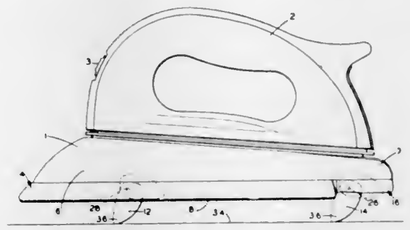
2,664,654
ELECTRIC STEAMING IRON
Jacob I. Dickman, Los Angeles, Calif., assignor to Samuel Bean, Los Angeles, Calif.
Application April 1, 1950, Serial No. 153,355
1 Claim. (Cl. 38—77)



In an electric iron: a sole plate having wall means forming a space provided with discharge openings; a steam generator in juxtaposed relation with respect to said plate, said generator having means forming a chamber therein; said generator having means forming an aperature opening outwardly of said generator from said chamber; a removable closure for said aperture forming means; said generator also having a pair of elongate passageways, each communicating at one end respectively with said chamber, one of said passageways forming an inlet to said chamber, and the other of said passageways forming an outlet from said chamber; means connecting the other end of said other passageway with said space; electric heating means in heat-conducting relationship with said plate and said generator; and a plurality of separate freely movable metallic heat transfer elements loosely confined in said chamber; each of said elements being of a size to permit passage thereof through said aperture, but of larger size than said passageways, each of said elements having a recess for increasing the exposed area of the element.

2,664,655
SADIRON LIFT
Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application May 19, 1948, Serial No. 28,018
5 Claims. (Cl. 38—79)

1. In combination, a flatiron having a body formed with a plurality of downwardly facing recesses on its bottom ironing surface, a plurality of iron supports disposed respectively in said recesses, pivotal means mounted on said body adjacent the corresponding end of each of said recesses and pivotally supporting one end of the supports at said corresponding ends of each of said recesses, whereby said supports are freely pivotal about said pivotal means between a first limit position in which said supports are disposed wholly within said recesses and a second limit position in which said supports depend below said ironing surface, abutment means for each of said supports disposed at the ends of said re-



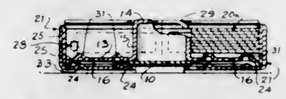
cesses adjacent said pivotal means, said abutment means being engageable by said supports to define said second limit position of each of said supports, said abutment means for said support being located relative to said associated pivotal means to define said second limit position to one side of a vertical plane passing through the pivotal axis of said associated pivotal means whereby the weight of said flatiron holds said supports against said abutment means and said supports positively maintain the ironing surface of said flatiron above a work surface engaged by said supports.

2,664,656
IRONING BOARD COVER FASTENER
Vernon Lee Pearson, Medford, Oreg., assignor of one-third to George H. Jackson, Medford, Oreg.
Application August 27, 1951, Serial No. 243,796
5 Claims. (Cl. 38—140)



1. In combination with an ironing board having a groove extending around the edges thereof and having a recess with a centrally located notch in one end of said board, an ironing board cover fastener comprising an end plate having upper and lower parallel U-shaped members, each of which members have substantially parallel legs, the legs of said upper member being secured to the legs of said lower member by central connecting members, a cable adapted to fit in said groove in said board, a turnbuckle connecting the ends of said cable, said turnbuckle being receivable within said recess, said end plate being positioned on said board in said recess with said upper member overlying the upper surface of the board and the lower member underlying the lower surface of the board, a hand wheel, said hand wheel having an opening therethrough, said turnbuckle extending through said opening and being controlled for rotation by said hand wheel, said hand wheel being positioned so as to extend between said legs and in said notch.

2,664,657
DEVICE FOR ADJUSTABLY MOUNTING PACKS OF INDICATOR CARDS OR PLATES
Jesse Harold Holland, Redondo Beach, Calif.
Application September 25, 1950, Serial No. 186,599
5 Claims. (Cl. 40—79)



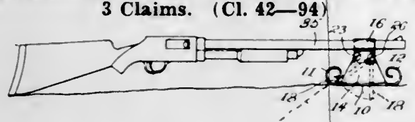
1. In a device of the kind described, a tray having a horizontally directed end which is at least partly open, each of opposite sides of said tray forming a rail parallel to that at its opposite side, a pack of horizontally extending plates contained in said tray and spanning the width thereof, a manually operable reciprocatory transfer member having sheet metal side portions which slidably engage and travel along said rails, said member having an inward and an outward horizontal movement in relation to said tray, said member carrying along each side an inwardly directed top flange a part of which is downwardly deflected thus forming shoulder elements which, at the inward limit of the travel of said transfer member engage the uppermost plate of said pack and during the outward movement of said member move the engaged plate horizontally out of said open end of said tray until it clears the remaining plates of the pack and then drops down to a level below the lowest plate of the pack, said member having a portion which engages the dropped down plate and during the inward movement of said member forces said plate back under the remaining plates of the pack.

2,664,658
FIREARM TRIGGER LOCK
Tex Bjorklund, Venice, Calif.
Application January 3, 1951, Serial No. 204,249
10 Claims. (Cl. 42—70)



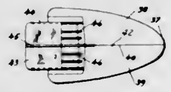
8. A firearm trigger lock comprising a first flat plate engageable in the trigger guard of a firearm on one side of the trigger and having its periphery engaged on the inner surface of the trigger guard, a second flat plate engageable in the trigger guard on the other side of the trigger and having its periphery engaged on the inner surface of the trigger guard, a block element laterally carried by the first plate extending transversely behind the trigger to block the movement of the trigger to firing position, said block element having a free end abutting the inner surface of the second plate and spacing said plates apart, a first fastening element formed on the inner surface of one of said plates, and a second complementary fastening element laterally carried by the other of said plates and rotatably engageable therethrough for locking engagement with said first fastening element to releasably secure said plates in position in the trigger guard and position the block element in trigger locking position behind the trigger.

2,664,659
GUN SKID
Wayne Parker, Pierre, S. Dak.
Application January 16, 1951, Serial No. 206,182
3 Claims. (Cl. 42—94)



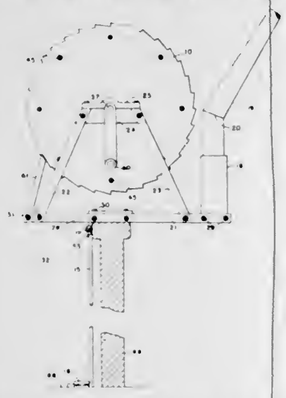
1. A gun skid comprising a spring clip having a base with a pair of upwardly coiled ends and having upwardly extended arms with arcuate gripping sections on the ends of the sides, a prong pivotally mounted in the skid between said arms and positioned to extend beyond the base thereof, and means extended through the arms for clamping the said arcuate sections against the sides of a gun barrel.

2,664,660
SHEARING BOARD, PARTICULARLY FOR FISHING TRAWL NETS
Karl-Hugo Larsson, Stockholm, Sweden
Application March 24, 1950, Serial No. 151,747
Claims priority, application Sweden April 1, 1949
13 Claims. (Cl. 43—9)



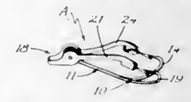
1. A shearing board useful for attachment to fishing trawl nets, comprising in combination a body part tapering towards its front end in a rounded point, having a pressure surface substantially in the shape of an open V and a suction surface composed of a convexly rounded front portion and a channel-shaped rear portion merging thereinto so that the thickness of the body part decreases towards both ends from a maximum intermediate the ends, a vertical longitudinal stabilizing fin mounted centrally and towards the rear of the pressure surface and a horizontal stabilizing fin also mounted centrally and towards the rear of the pressure surface.

2,664,661
FISHING APPARATUS
Frank Kohn, Mobile, Ala.
Application July 15, 1946, Serial No. 683,616
3 Claims. (Cl. 43—21.2)



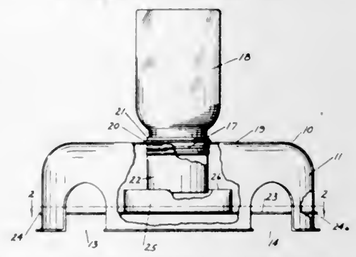
1. An apparatus for fishing for large weighty fish comprising a fishing rod having an offset integral lower butt portion, a vertical support for swivelly receiving the butt portion of said fishing rod to enable the same to be rotated in a vertical axis with the tip portion extending diagonally outwardly and upwardly therefrom, means for carrying said swivel support outboard of a boat, a huge reel, a reel support for the huge reel adjacent the rod support but carrying the reel independently of the rod and not subject to the swivel movement thereof, and means for controlling the line through the manipulations of the reel while independently rotating the rod to swing the same inboard and outboard of the boat.

2,664,662
WEEDLESS FISHHOOK
Karl R. Larson, Alton, Ill.
Application October 22, 1952, Serial No. 316,180
20 Claims. (Cl. 43—43.4)



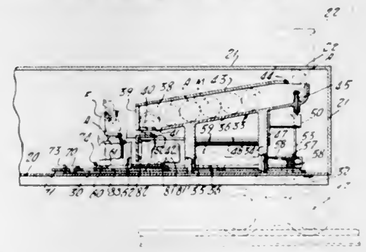
1. A weedless fish hook unit including a pair of substantially rigid arms, a pair of fish hooks having eyes at one end pivotally connected to said arms, the opposite ends of the hooks being normally free, said arms diverging from said pivot connection, and hook engaging means on the outer ends of said arms, said hook engaging means being spaced apart a distance substantially different from the distance between the extremities of the free ends of said hooks and said hooks being resiliently flexed for engagement with said hook engaging means.

2,664,663
DISPENSER OF RODENTICIDES
Thomas W. Mullen, Evansville, Ind.
Application January 31, 1952, Serial No. 269,225
2 Claims. (Cl. 43—131)



1. A rodent bait dispenser comprising a dome-shaped shell having an enclosing, downturned side wall with a lower boundary edge portion to rest upon the ground or floor, said side wall having a plurality of circumferentially spaced rodent entryways open therethrough at all times and of a size and shape for travel of a rat therethrough with a close clearance in each instance; a bait receptacle above and resting on said shell and detachably engaged therewith; said receptacle opening through said shell; an opaque walled tube within and carried by said shell extending downwardly from said receptacle; a plate extending diametrically across and within said shell, intermediate the top and bottom of said entryways, said plate being engaged with said shell wall substantially midway between adjacent entryways; and a bait receiving cup mounted on said plate and spaced below and centrally of the lower end of said tube; said tube and said cup forming a sight baffle between opposite entryways in respect to the upper areas only of the openings of said entryways above said plate; said shell side wall being of that diameter wherein the distance between said tube and a sector of the side wall between adjacent entryways is approximately equal to the length of the body of a rat, the space between said cup and said wall sector above the plate being free of barriers; the said wall of the shell between said entryways providing outwardly curved barriers into which a rat may fit its rear end for complete coverage thereof; said barriers having lengths in each instance greatly exceeding the circumferential widths of each of said entryways.

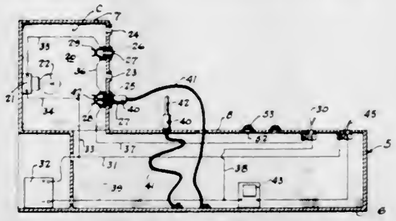
2,664,664
TOY FOR HANDLING TOY MERCHANDISE
Joseph L. Bonanno, Madison, and Abram D. Gash, Jr., Irvington, N. J., assignors to The Lionel Corporation, New York, N. Y., a corporation of New York
Application July 7, 1948, Serial No. 37,344
16 Claims. (Cl. 46—45)



1. A merchandise handling toy for delivering cylindrical toy articles of merchandise standing on end, which comprises an inclined storage magazine into which the articles are inserted side by side so as to roll down the same, the magazine having a discharge opening through which the one end only of the lower-most article may pass while it is on its side, a movable intercepting plate below the opening which in one position holds the article against passage completely through the opening and in its other position releases the article to fall in an erect position, a receiver onto which the erected article falls, a member movable with the plate and acting on the return movement of the plate to shift the erect article from said receiver, a laterally movable article support onto which the article is shifted, and electro-magnetic means to shift the article support to a limited extent and to thereafter eject the article therefrom end down.

2,664,665
TOY TELEPHONE SWITCHBOARD
Norma Rozenoff, Chicago, Ill.
Application March 5, 1952, Serial No. 274,925
6 Claims. (Cl. 46—45)

1. In a device of the kind described, a housing including a flat box-like portion having an upstanding box-like portion at one end thereof, means dividing the upstanding portion into a plurality of compartments, the forwardly disposed wall of said upstanding portion having openings therein respectively in communication with said compartments, a lamp in each compartment, a jack-like member associated with at least selected of said openings and including a set of normally engaged contacts, each set of contacts being in circuit with the lamp in the compartment with which the opening associated with the jack member is in communication, a manually operable switch mounted in the housing in circuit with each set of contacts and the associated lamp and effective when closed to connect the lamp with a source of current to render the same operative, and means associated with said housing including a non-conductive portion selectively insertable between a set of contacts to thereby render the associated lamp inoperative.



2,664,666
ACROBATIC TOY AIRPLANE
Neville E. Walker, Portland, Oreg., assignor to American Junior Aircraft Company, Portland, Oreg., a corporation of Oregon
Application July 23, 1951, Serial No. 238,115
6 Claims. (Cl. 46—79)



1. A propellerless type toy airplane, comprising an elongated fuselage defining a longitudinal axis, a wing means mounted upon said fuselage to exert lifting forces thereupon during flight, one side of said wing projecting laterally out from each side of said longitudinal axis, the lifting force on one side of said axis exceeding that on the opposite side, and the weight on said one side exceeding that on said opposite side by an amount substantially equal to said excess lifting force to produce lateral stability in flight at a predetermined range of velocities.

2,664,667
TOY BALLOON HOLDER
Halbert P. Burroughs, Seattle, Wash.
Application November 7, 1949, Serial No. 125,961
1 Claim. (Cl. 46—90)



A holder for inflated toy balloons comprising a balloon holder stick; a balloon securing sup-

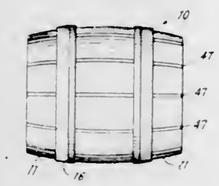
port comprising a block element having an under surface extending laterally from said stick and an upper surface which latter constitutes a seat on which an inflated balloon may rest, said seat being concave and substantially coaxial with said stick, and said block element being provided with a slot extending from its marginal edge inwardly and substantially toward said stick and terminating in a wall closely adjacent said stick, said wall being substantially parallel to said stick.

2,664,668
DANCING TOY
Raymond H. Turner, St. Louis, Mo.
Application July 2, 1949, Serial No. 102,840
1 Claim. (Cl. 46—137)



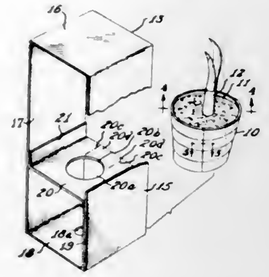
A stage for a dancing figure having feet, said stage being manipulatable by a human operator, comprising, a base consisting of spaced supporting members, and a flexible member mounted on and projecting from said base and provided with a platform at its free end, the said base being of a length sufficient to support the elbow and a part of the forearm of the operator and the projection of said flexible member beyond the base being sufficient to permit the operator to tap the flexible member with one hand while suspending the figure above and with its feet touching the platform, said platform comprising a lower plane member formed from the said flexible member, intermediate discontinuous resilient supporting members and an upper plane member of resonant material.

2,664,669
ROLLING TOY
Michael Tannen, New York, N. Y.
Application August 8, 1952, Serial No. 303,335
11 Claims. (Cl. 46—207)



1. A rolling toy comprising a shell adapted to roll about its axis on a floor or surface, an elastic member at the axis of said shell, means to anchor the ends of said elastic, a weight suspended from said elastic and between said anchoring means, whereby when said shell is rolled on the floor or surface the elastic member will become twisted to create torsion force for rolling the shell back after the shell stops rolling, and means in the shell to cause the suspended weight to turn with the shell when the shell is rolled so as to prevent the elastic member from being twisted so that the toy will not roll back.

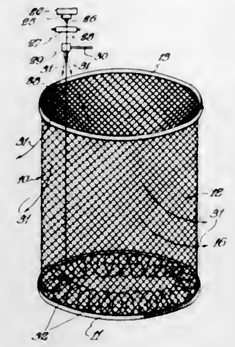
2,664,670
PLANT PACKAGE
Marion R. Mulford, Lebanon, Ohio, assignor to Hewett P. Mulford & Company, Lebanon, Ohio, a partnership
Application August 12, 1948, Serial No. 43,889
2 Claims. (Cl. 47—37)



1. A plant package comprising a pot holding member, a pot and a transparent wrapper to hold the entire package in assembly, said pot holding member consisting of a cut and scored paperboard blank having in articulation in the order named, a side wall, a top wall, a side wall, a bottom wall, a partition supporting member, a partition member and a glue flap, said partition supporting member being adhesively secured to said first mentioned side wall, and said glue flap being adhesively secured to said second mentioned side wall, to form a rectangular band having a partition thereacross substantially parallel to said top and bottom walls, said partition having a substantially centrally disposed opening therein, said pot being of a height substantially equal to the height of said partition supporting member, and of a diameter substantially equal to the length of said partition member, said pot being inserted between said bottom member and said partition member and between said side walls, thereby acting to maintain said pot holding member in erected condition, said wrapper completely surrounding said assembly of pot holding member and pot and providing transparent walls on opposite sides of said package adjacent said first mentioned side walls, and acting to retain said pot against lateral displacement from said pot holding member, whereby to provide a protective package for a plant placed in said pot and yet affording a full length view of a plant placed therein.

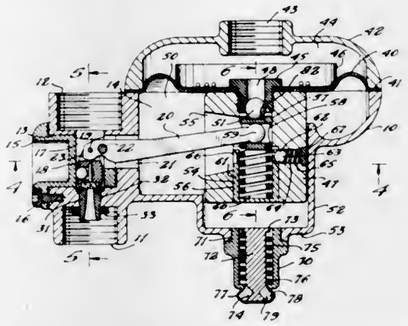
2,664,671
RECEIVING MECHANISM FOR DRAWN GLASS STRANDS
Joseph F. Courtney, Chicago, and Adelbert Carl Radtke, Oak Park, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application April 4, 1951, Serial No. 219,255
2 Claims. (Cl. 49—17)

1. A coated glass strand drawing and receiving apparatus comprising in combination a strand nozzle, means feeding a blast of air to said nozzle, said nozzle performing the dual function of drawing a coated glass strand and discharging it under and with air pressure, a strand receiving container having a solid base, and a substantially cylindrical upstanding perforate wall carried by said solid base, said nozzle disposed above said container and delivering coated glass strand and air downwardly into said container, whereby the air acts to tamp the coated glass strand into said container with sufficient gentleness so the adjoining coatings are not welded together and the air



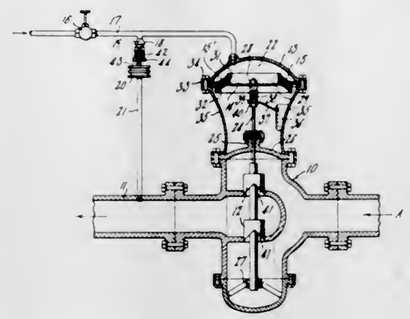
is immediately discharged through the perforate wall to prevent interference with the laying of succeeding coated glass strand in said container.

2,664,672
FLUID PRESSURE REGULATOR WITH AUTOMATIC MEANS FOR SHUTTING OFF THE FLUID
Victor Ey, Woodside, N. Y.
Application October 20, 1950, Serial No. 191,179
4 Claims. (Cl. 50—5)



1. In a gas pressure regulator of the type described, a valve element, a lever for moving the valve element toward and away from an inlet orifice, a diaphragm mounted within the regulator and subdividing the interior thereof into upper and lower chambers with the lower chamber in communication with the inlet orifice, a weight secured to said diaphragm to maintain pressure on the diaphragm in opposition to the pressure of the gas within the lower chamber, said lever engaging said weight for movement of the valve element with the movement of the diaphragm by variation in the pressure of the gas in the lower chamber, an expansion device carried by said weight for movement with reference thereto, and a release element normally retaining said expansion device in contracted relation and functioning to release said expansion device upon upward movement of the diaphragm and weight upon increase of the pressure of the gas in the lower chamber beyond a predetermined limit whereby said expansion device is expanded and tensioned against said lever for maintaining the valve element in closed relation.

2,664,673
DIAPHRAGM MOTOR
Joseph W. Devorss, Jr., Scarsdale, N. Y., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application November 20, 1946, Serial No. 710,971
5 Claims. (Cl. 50—10)

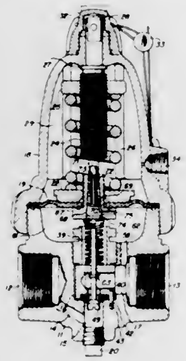


1. A fluid pressure motor comprising a casing having a fluid pressure chamber therein, means for sealing one side of said chamber comprising an outer ring secured with a fluid tight joint to said chamber and having an inner annular flange thereon, an inner disc having an outer annular flange thereon, a relatively thick rubber ring interposed between and bonded to said flanges, said inner disc and rubber ring forming a piston, said flange on said inner disc being offset axially inwardly of said chamber from said flange on said outer ring and the faces of said rubber ring being generally frustro conical and converging axially inwardly of said chamber when the pressure on opposite sides of said ring is balanced, means for actuating said piston outwardly by increasing the pressure in said chamber while combined compressive and shear stresses are imparted to said rubber ring, and said piston being actuated in the opposite direction by the resilient energy stored in said rubber ring upon the decrease of pressure in said chamber.

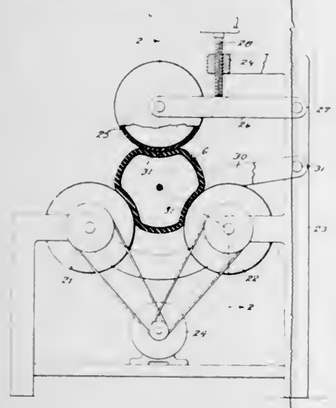
2,664,674
FLUID REGULATOR VALVE
Fritz Niesemann, Pittsburgh, Pa., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 27, 1948, Serial No. 23,482
5 Claims. (Cl. 50—23)

1. A fluid flow regulator comprising a body having a passageway therethrough; means forming a transverse peripheral shoulder in said passageway; a member seated upon said shoulder and blocking said passageway, said member having a bore therethrough to connect the blocked portions of said passageway; a flexible element having an aperture therethrough aligned with a portion of said bore, said flexible element extending between said member and said shoulder to provide a fluid seal therebetween; a movable valve cooperative with said flexible element to regulate the flow through said bore and passageway; a first resilient means carried by said member operative to bias said movable valve to close the aperture of said flexible element; a flexible differential pressure responsive device subjected on one side to atmospheric pressure and on the other side to the pressure of the fluid between said valve and the outlet of said passageway, said device being operatively coupled

to said valve to control the movements thereof with respect to said flexible element in opposition to the biasing force of said first resilient means; means operative to control the differential pressure required to deflect said differential pressure responsive device, and relief valve means coupled with said differential pressure responsive device to allow the flow of air from the high pressure side to the low pressure side of said differential pressure responsive means when such differential pressure is excessive, a second resilient means normally biasing said relief valve means to its closed position, said relief valve means being constructed and arranged to be opened by a fixed part of said regulator in response to deflection of said differential pressure responsive device to a predetermined limit and in opposition to said second resilient means.

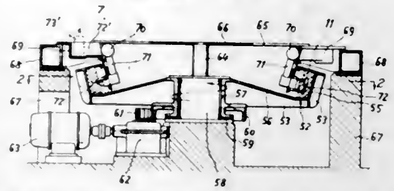


2,664,675
BURNISHING APPARATUS
Frank La Monica, Unionville, Conn., assignor to The United Tool & Die Company, Elmwood, Conn., a corporation of Connecticut
Application July 5, 1952, Serial No. 297,221
10 Claims. (Cl. 51—2)



1. A burnishing apparatus including a flexible longitudinally cross-sectionally oval-shaped barrel, means for rotating said barrel, and a plurality of pneumatic rolls applied under pressure against the exterior of the barrel and forming protrusions upon the inside thereof for compacting and deflecting the contents of the barrel.

2,664,676
FINISHING OF WORKPIECES
Paul K. A. Cüppers, Geislingen (Steige), Germany, assignor to Wurttembergische Metallwarenfabrik, Geislingen (Steige), Germany
Application June 1, 1950, Serial No. 165,423
15 Claims. (Cl. 51—7)



1. A device for finishing the surfaces of workpieces comprising a pan mounted for rotation about its center axis and having therein a finishing mass of abrasive and like materials only partly filling said pan, means for rotating said pan at a speed at least sufficient to cause the formation, under action of the centrifugal force, of a mass ring in said pan, a swingable arm and a workpiece holder arranged at the free end of said arm and adapted to hold the workpiece, said arm being swingable in a plane extending substantially radially and parallelly to the centrifugal pan axis into a position where the workpiece holder is disposed freely accessible outside of the centrifugal pan, for chucking and removing the workpiece, and into a second position where the workpiece fastened to the workpiece holder is disposed in the inner annular zone of the mass ring.

ERRATUM

For Class 51—7 see:
Patent No. 2,664,711

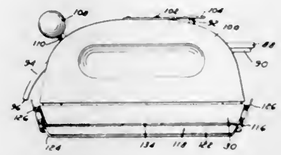
2,664,677
STROPPER AND HONER
Elmer J. Speake, Los Angeles, Calif.
Application May 20, 1950, Serial No. 163,211
6 Claims. (Cl. 51—153)



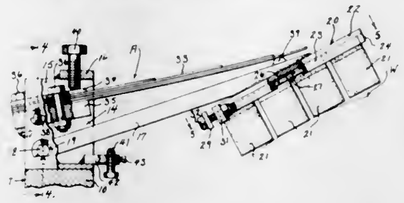
1. A razor blade stropper and honer including an elongated handle having an offset member at one end thereof, the handle being freely rotatable about its longitudinal axis and relative to the offset member, a strop-engaging roller extending from said offset member with its axis parallel to that of the handle and rotatable relative thereto, a rotatable blade holding unit having its axis in spaced parallel relation to the longitudinal axis of the roller, and a rotary drive connection between the roller and the blade holding unit.

2,664,678
PNEUMATIC SANDING DEVICE
David R. Wickes, Detroit, Mich., assignor to Detroit Surfacing Machine Company, Detroit, Mich., a corporation of Michigan
Application November 27, 1951, Serial No. 258,373
6 Claims. (Cl. 51—170)

1. In a pneumatic sanding device, the combination of a frame, a pneumatic motor on said frame having a downwardly extending operating shaft, said shaft being rotated in response to the operation of said motor, a sanding plate below said frame, means connecting said shaft with said plate for reciprocating said plate, a cover member on said frame having depending side walls terminating at their lower edges adjacent said sanding plate, said motor having an exhaust port opening into the space defined by said cover, and a fan member below said frame and operatively connected with said motor shaft for directing the air discharged from said exhaust port outwardly beneath the lower edges of said cover.



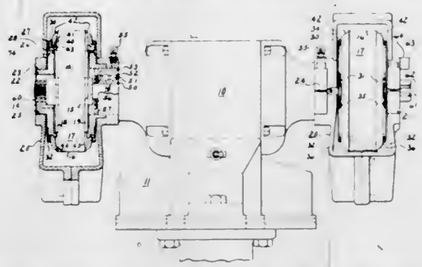
2,664,679
ATTACHMENT FOR TRIMMING THE TREADS OF WHEELS
Daniel Allcott Kelly, Milwaukee, Wis., assignor to The Prime Manufacturing Company, Milwaukee, Wis., a corporation
Application January 5, 1952, Serial No. 265,109
3 Claims. (Cl. 51—255)



1. An attachment for trimming and truing the periphery of a car wheel while the car is in motion and the wheel is rotating comprising a bracket adapted to be secured to a car truck adjacent to a car wheel, an arm pivotally secured to the bracket, a carrier on the outer end of said arm, a plurality of abrasive blocks detachably mounted in the carrier, spring means carried by the bracket engaging the arm normally urging the carrier and the blocks toward the periphery of a wheel, and means adjustably carried by the bracket engaging said spring means for increasing and decreasing the tension of the spring according to the adjustment of said last named means.

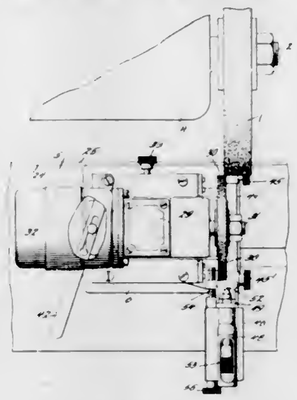
2,664,680
HEEL FINISHING MACHINE
Rudolph Schiavulli and Antimo Capomacchio, Providence, R. I.
Application December 20, 1950, Serial No. 201,718
4 Claims. (Cl. 51—274)

1. In a shoe heel finishing machine, a rotatable shaft having a wheel fixed thereto, a suction hood surrounding a portion of said shaft with respect to which the said portion of the shaft is free to rotate a stationary guide adjacent a radial side of the wheel, a shoulder on said stationary guide adjacent the wheel, a guide ring mounted on said stationary guide for axial movement thereon and means for resiliently retaining said guide ring in engagement with the said shoulder which comprises a spring holder plate fixed to said stationary guide and a plurality of spaced spring means



carried thereby and in contact with said guide ring.

2,664,681
METHOD OF DRESSING DIAMOND WHEELS
Frank W. Clark, Rockfall, Conn., and Ralph T. Stolze, Fort Lauderdale, Fla.; said Clark assignor to Robert J. Hood, doing business as Eastern Tool Company, East Hartford, Conn.
Application July 19, 1948, Serial No. 39,406
3 Claims. (Cl. 51—283)

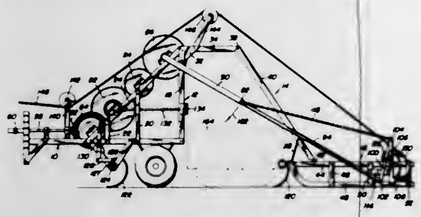


1. The method of shaping the periphery of a diamond impregnated lapping wheel comprising turning the wheel on its axis at a peripheral speed of about 4500 to 5000 feet per minute at which speed the peripheral surface material is subjected to centrifugal force, approaching the limit of the bonding material thereof to withstand, applying to the periphery of the diamond wheel a grinding wheel having a negative of the shape it is desired to impart to the diamond wheel, turning the grinding wheel at a peripheral speed considerably less than that of the diamond wheel whereby the bonding strength in the local portions of the periphery of the diamond wheel contacted by the grinding wheel are exceeded and the periphery of the diamond wheel takes the desired shape without materially altering the shape of the grinding wheel.

2,664,682
STONE PICKER
Ray O. Schrum, West Fork, Mo.
Application July 11, 1949, Serial No. 104,108
13 Claims. (Cl. 55—17)

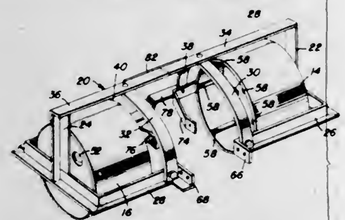
1. A rock picker comprising a portable supporting frame, an inclined track on said frame including horizontal rails connected by interme-

diate inclined rails, a rake assembly oscillatable and slidable upon said track, means operatively connecting said rake assemblies and said frame and reciprocating said rake assembly on said track, means operatively connected to said recip-



rocating means rotating said rake into loading position and into dumping position, said reciprocating means including a crank journaled on said frame and means connecting the crank to said rake assembly, means operatively associated with said frame rotating said crank.

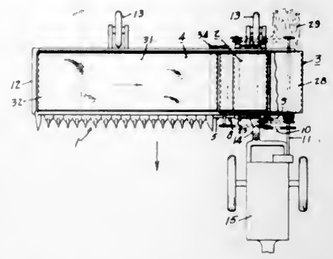
2,664,683
ROLLER ATTACHMENT FOR GARDEN TRACTORS
Theodore Arthur De Cato, Bridgeport, Conn.
Application December 9, 1949, Serial No. 132,073
1 Claim. (Cl. 55—48)



In combination with a vehicle which has a chassis and a pair of wheels, a roller attachment comprising a frame detachably secured to said chassis and having a pair of rollers carried thereby, means disposed in said rollers frictionally gripping said wheels, said means including a number of strips, each of said rollers having a partition forming a wall for a fluid chamber, and said partitions having members superposed thereon and forming spacers for the wheels and partitions, said frame consisting of a pair of frame sections, each section forming a hanger for one of said rollers, and means releasably fastening said sections together.

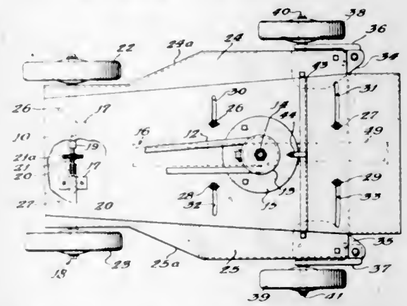
2,664,684
COMBINATION HAYING MACHINE
Stanley D. Russell, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a company of Wisconsin
Application November 2, 1949, Serial No. 125,101
4 Claims. (Cl. 56—1)

1. In combination in a single haying machine, a mobile frame, a sickle mower of substantial length carried by said frame, an inclined apron on said frame behind the mower disposed to receive the cut crop material, a pair of crusher rolls carried by said frame at the upper end of the apron having a length generally corresponding to the length of the mower and adapted to crush crop material fed thereto by said apron, a cross conveyor carried by the frame behind and on the discharge side of said crusher rolls to convey the crushed material therefrom to one side of the machine, and a windrower operatively associated with said last-named conveyor and serving to



drop the crushed crop material onto the ground in windrow formation.

2,664,685
ADJUSTABLE FRAME POWER MOWER
William Howard Phelps, Ralston, Nebr.
Application May 20, 1950, Serial No. 163,148
4 Claims. (Cl. 56—25.4)

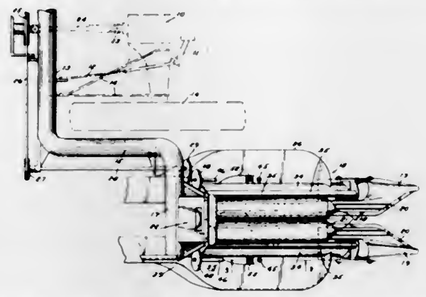


1. A power mower having a laterally expansible frame, comprising: a central frame member having a substantially solid top plate; a pair of rear wheels journaled on said central frame member; an upright mower head supported on the central frame member and having a shaft extending through the frame provided with a horizontal mower blade which is free to rotate below the central frame member; a pair of flanking frame members each of which has a solid top plate and a depending skirt along its outer margin which extends below the level of said mower blade, said flanking frame members being mounted so that their forward portions may be laterally adjusted with respect to the central frame member; a front wheel at the forward corner of each flanking frame member; and means for adjustably securing the forward portions of the flanking frame members to the central frame member so as to vary the span between said skirts.

2,664,686
BEATER ASSEMBLY FOR COTTON HARVESTERS
Robert H. Witt, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application August 6, 1951, Serial No. 240,566
5 Claims. (Cl. 56—30)

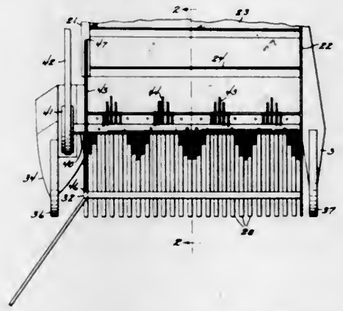
1. In a cotton harvesting machine having a suction intake port and a juxtapositioned rotatable stripping brush for stripping cotton bolls from a plant contacted by said brush, a beater

assembly located at said port to prevent clogging of the same by trash, comprising a shaft extending longitudinally of said port, means carried by said machine journaling said shaft for rotation,



means for rotating said shaft in a direction opposite to the direction of rotation of said brush, and radially extending axially spaced beater elements on said shaft.

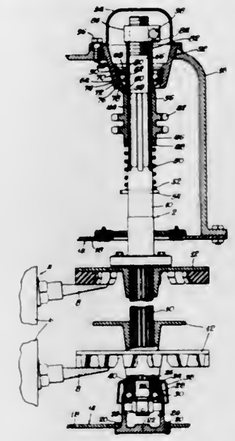
2,664,687
COTTON STRIPPER WITH MOVING COMB
William E. Brown, Roaring Springs, Tex.
Application October 13, 1950, Serial No. 189,993
2 Claims. (Cl. 56—35)



1. In a cotton stripper, the combination which comprises an inclined chute, conveying means in the chute, substantially horizontally disposed parallel fingers extended forwardly from the leading lower end of the chute, a transversely disposed channel member extended across the chute and upon which the said fingers are mounted, resilient means mounting the said channel member and fingers in the lower leading end of the chute, a shaft journaled in the chute and extended transversely across the lower part thereof radially disposed tines carried by the shaft and positioned with the tips of the tines spaced from the upper surfaces of the fingers whereby the tines coact with the fingers for removing cotton from cotton plants extended between the fingers.

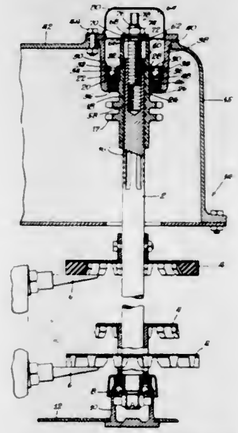
2,664,688
COTTON PICKER DOFFER MEANS
Louis E. Nickla, Memphis, Tenn., assignor to International Harvester Company, a corporation of New Jersey
Application April 18, 1951, Serial No. 221,604
5 Claims. (Cl. 56—41)

1. In a doffer unit of the class described, a support, a shaft rotatably mounted thereon and movable endwise, abutment means on the shaft spaced axially of said support, doffer means connected to the shaft for movement therewith, and spring means reacting between said abutment means and said support and biasing said unit in a direction positioning the doffer means in co-



operating relationship with associated picker means, said unit being automatically movable away from said picker means against the resistance of said spring means to relieve congestion therebetween.

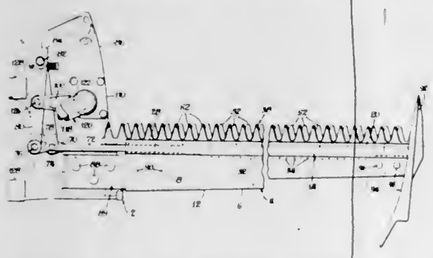
2,664,689
COTTON PICKER DOFFER MECHANISM ADJUSTING MEANS
Delos A. Walker and Glenn H. Gross, Memphis, Tenn., assignors to International Harvester Company, a corporation of New Jersey
Application May 5, 1951, Serial No. 224,774
1 Claim. (Cl. 56—41)



In a cotton picker doffer assembly including a substantially vertical shaft, a sprocket sleeved thereon adjacent to the upper end thereof and having a splined connection therewith, whereby the shaft and sprocket are relatively axially movable, said sprocket having an integral upwardly extending sleeve encompassing the upper end of the shaft and projecting thereabove and having an upper edge, an end thrust bearing about said sleeve and connected thereto intermediate its ends, a support having a bore, said bearing disposed within said bore and connected to said

support, a screw threaded into the upper end of said shaft and coaxial therewith and having a shoulder intermediate its ends with an upwardly facing abutment surface, a washer having top and bottom sides and said bottom side seated peripherally upon said upper edge of said sleeve and connected thereto, said washer having an opening admitting said screw therethrough and having a downwardly facing surface on its bottom side disposed in opposing relationship to said upwardly facing abutment surface on said screw and a setting nut threaded on the screw and bearing against the top side of said washer while drawing said shoulder of said screw against the bottom side of the washer whereby said screw and said sprocket are interlocked in set position, said shaft having an upwardly facing end face on its upper end facing said bottom side surface on said washer and abuttable therewith for limiting upward movement of said shaft.

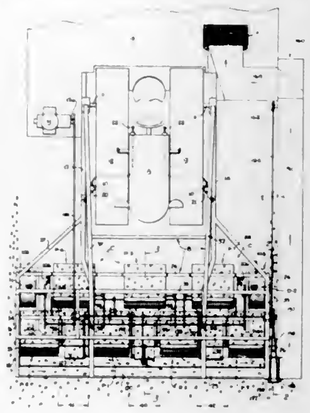
2,664,690
DOUBLE SICKLE TYPE MOWER
Edwin F. Huddle, Elmwood Park, and Ernest C. Carlson, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application December 7, 1951, Serial No. 260,496
10 Claims. (Cl. 56—297)



1. In a mower, an elongated support comprising a U-shaped sheath formed of flexible material and presenting top and bottom webs and an intervening rear web, said top and bottom webs having forward portions convexed away from each other and developing substantially parallel facing channels providing concaved bearing surfaces, a pair of superposed knife blades entered along their rear edges between said portions, each blade and adjacent portion engaging within the related channel, along the bearing surface therein tangentially longitudinally thereof, and driving means for each blade including pendular means pivotally connected to the stubbleward end of the blade on an axis substantially perpendicular to the cutting plane of the blade and having an arc of movement adapted to reciprocate the blade longitudinally and laterally generally parallel to the cutting plane thereof, the engagement between each blade and related surface providing substantially line contact therebetween during the entire operating range of movement of the blade.

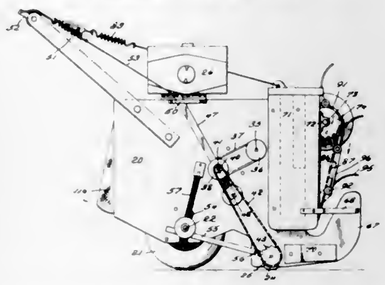
2,664,691
APPARATUS FOR PICKING UP PRUNES AND THE LIKE
Walter Wiebe, Hollister, Calif.
Application August 4, 1950, Serial No. 177,632
14 Claims. (Cl. 56—328)

1. In an apparatus for picking up fruit from the earth of the type including a carriage movable over the earth, traction means on said carriage for supporting the same for movement as aforesaid; the combination therewith of a pick-up unit comprising a drum pivotally mounted on said carriage a substantial distance above the earth, an endless belt trained around said drum and of greater circumferential size than said drum so as to have an earth engaging reach, a tensioning device for said pick-up unit comprising a frame pivotally mounted coaxially with said drum, a plurality of forward wheels on said frame



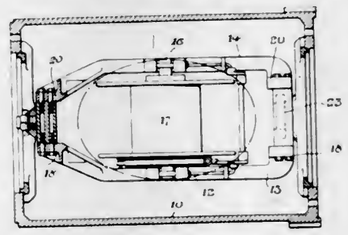
for establishing a forward extremity for the earth engaging reach of said belt, a plurality of rearward wheels on said frame for establishing a rearward extremity for the earth engaging reach of said belt, said belt having a multitude of fruit impaling pins extending outwardly therefrom, and means for drivingly connecting said traction means and said drum for driving said belt at a speed whereby the pins thereon are relatively immobile with respect to earth when said pins are within the earth engaging reach thereof.

2,664,692
PICKER FOR CRANBERRIES AND THE LIKE
Thomas Brinton Darlington, Whitesbog, N. J.
Application February 20, 1951, Serial No. 211,893
8 Claims. (Cl. 56—330)



1. In a harvester for cranberries and the like, a vehicle, a roller adapted to contact the ground rotatably mounted on the vehicle, a generally vertical picking wall extending upwardly on the vehicle tangent to the roller from immediately adjacent the forward edge of the roller, and a generally vertical conveyor mounted on the vehicle in front of the picking wall having a plurality of movable picking combs disposed along the conveyor, the conveyor having a front stretch which is more remote from the picking wall, a rear stretch which is adjoining the picking wall and a reverse bend at the bottom, and means on the vehicle for moving the conveyor in a direction in which the front stretch moves downwardly and the rear stretch moves upwardly, the combs at the reverse bend at the bottom moving downwardly and rearwardly and the outer ends of the combs on the rear stretch being in proximity less than berry size to the picking wall.

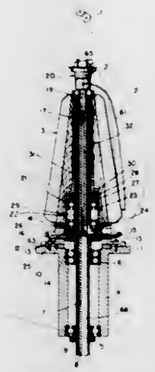
2,664,693
SPLIT CRADLE FOR TUBULAR STRANDING MACHINES
Carl O. Bruestle, Metuchen, N. J., assignor to Syncro Machine Company, Perth Amboy, N. J., a corporation of New Jersey
Application July 1, 1950, Serial No. 171,739
4 Claims. (Cl. 57—58.34)



1. A reel supporting cradle structure for a tubular stranding machine of the type having a plurality of tubular sections arranged end to end and a cradle in each section, comprising, in combination, bearings mounted on the axis of each section at the ends thereof, bearing blocks rotatably mounted on each bearing, a pair of cradle sections of generally U-shape and having flanges at the ends of the arms of said U, means for fixing said cradle flanges on said bearing blocks with one of said cradle sections on either side of said bearing blocks, and reel supporting means located substantially centrally of the upper edge of each cradle section whereby a reel arbor may be mounted therein with the reel flanges extending between the bases of said U-shaped cradle sections.

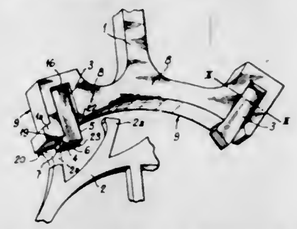
2,664,694
APPARATUS FOR TWISTING AND WINDING YARNS
John J. Gannon, Troy, Charles P. Powell, Waterford, and John J. Fiscella, Schuyler Heights, N. Y., assignors to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York
Application February 11, 1949, Serial No. 75,942
11 Claims. (Cl. 57—58.65)

1. In a winding and twisting apparatus, the combination of a sleeve, a support mounting said sleeve for rotation about its longitudinal axis, a spindle within and extending beyond both ends of the sleeve and slidable endwise therethrough, said spindle having a slot extending endwise for a distance at least equal to the amount of its endwise travel and opening within said sleeve, and also having an approximately axial passage from said slot to its upper end, a guide mounted on said sleeve, approximately radially thereof, for rotation therewith and extending into said slot to the lower end of said axial passage in the spindle, a bobbin rotatably mounted on the upper end of said sleeve, means for holding said bobbin from rotation with said sleeve, a tubular head rotatably mounted on the upper end of said spindle, a yarn feed device mounted on said head for rotation therewith, a driving coupling between the upper end of said spindle and said feed device and operable by the relative rotary movement between the head and said spindle, and a winding arm having a thread guide carried by said head and extending along a side of said bobbin



whereby when a yarn is fed downwardly past the bobbin to the outer end of said guide, then through said guide and upwardly through said spindle and head, and through said feed device to said winding arm guide and said bobbin, said yarn will be twisted by rotation of said sleeve and spindle, pulled through the guide and spindle by said feed device and wound on said bobbin.

2,664,695
ANCHOR ESCAPEMENT FOR TIMEPIECES
Marc Huguenin, Geneva, Switzerland, assignor to Montres Rolex S. A., Geneva, Switzerland, a firm of Switzerland
Application June 14, 1952, Serial No. 293,503
Claims priority, application Switzerland August 10, 1951
4 Claims. (Cl. 58—121)



1. In a time-piece, the provision of an anchor escapement comprising an anchor having two parallel outer surfaces and a transverse surface and provided with pallet recesses opening into said transverse surface, a pallet fitted in each of said recesses and projecting beyond the transverse surface of the anchor and at least one of which is set back with reference to the parallel surfaces of the anchor and defining thereby between the outer surfaces of the pallet, parallel with the parallel outer surfaces of the anchor, and the lateral surfaces of the corresponding recess, dihedral angles at the utmost equal to 90° forming longitudinal capillary paths adapted to receive a provision of oil, other dihedral angles of the utmost equal to 90° being defined across the parallel surfaces of the pallet and forming transverse paths connecting the first mentioned

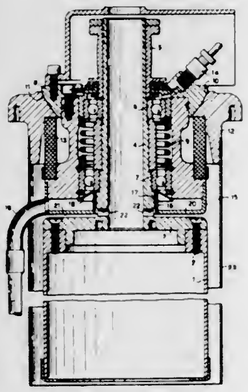
longitudinal paths, the transverse surface of the anchor defining with the lateral surfaces of the projecting portion of the pallet further dihedral angles forming paths connecting the longitudinal capillary paths on the two outer surfaces of the pallet, and a toothed escape wheel cooperating with the anchor pallets.

2,664,696

HANGING SPINNING OR TWISTING POT

Gerard Johan Quast, Rotterdam, Netherlands, assignor to W. C. 't Hart & Zn. Instrumenten- en Apparatenfabriek N. V., Rotterdam, Netherland

Application April 9, 1952, Serial No. 281,319
Claims priority, application Netherlands April 13, 1951
1 Claim. (Cl. 57—133)



Hanging spinning or twisting pot having a tube-shaped driving shaft to the bottom of which the topside of the pot is connected and which is rotatable in a casing by means of bearings, also being provided with a means for lubricating in drops the bearings from the topside, provided with a collecting means for draining the used lubricant at the bottomside of the casing, a slit being provided between the bottomside of the collecting means and the topside of the pot and at least one transversal bore being provided in said tube-shaped driving shaft at the line of said slit.

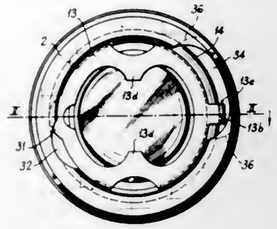
2,664,697

TIMEPIECE BEARING

Marcel Vuilleumier, Cully, Switzerland, assignor to Parechoc S. A., Le Sentier, Canton of Vaud, Switzerland, a firm of Switzerland

Application February 25, 1953, Serial No. 338,835
Claims priority, application Switzerland June 9, 1952
3 Claims. (Cl. 58—140)

1. In a timepiece bearing, the provision of an end-stone, a damping spring assuming the shape of a closed ring the inner periphery of which engages the outer terminal surface of the end-stone, at least one radial lug rigid with the outer periphery of said spring, a bearing member for the end-stone, provided with an annular groove in its inner surface facing the end-stone, said damping spring being removably and revolubly fitted in the bearing member on the inside of said groove, a transverse passage being provided in the bearing member between the terminal surface of said bearing member and said groove to allow the lug to enter said groove through said passage, a hook-shaped part rigid with the outer periphery of the spring and angularly spaced with reference to said lug, a gap being provided in the bearing member at an angular distance from the said passage equal to that separating the lug from the hook on the spring and extending between the groove and the terminal surface of the bearing member over an



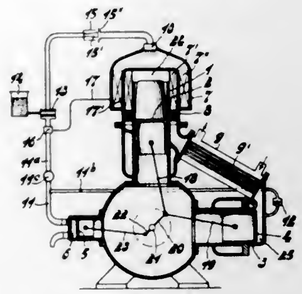
angular distance that is larger than the angular opening of the said passage and inside which the hook is adapted to be shifted round the axis of the end-stone, an open ring-shaped spring fitted permanently inside the groove in the bearing member and engageable by the hook on the first spring to allow said first spring to be shifted forwardly away from the end-stone through a pivotal movement of the hook round the section of the second spring engaged thereby.

2,664,698

HOT-GAS RECIPROCATING ENGINE WITH MEANS FOR AUGMENTING THE PRESSURE MEDIUM AND SUPPLYING COMBUSTION AIR

Abraham Nicolaas Jan van de Poll, Gomarus Maria Adrianus Cornelis Geeven, Gijsbertus Eernst, and Jacob Gerrit Slui, Dordrecht, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application August 30, 1950, Serial No. 182,334
Claims priority, application Netherlands September 8, 1949
5 Claims. (Cl. 60—24)



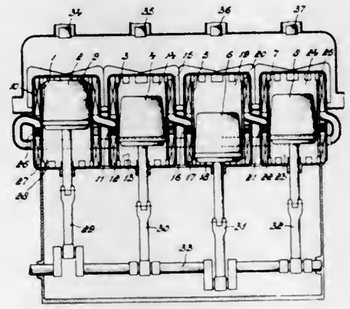
1. A hot-gas reciprocating engine comprising means defining a working space, piston means in said working space, a crankshaft, means connecting said piston means to said crankshaft, a device for supplying gaseous medium under pressure, first conduit means for directing a part of the gaseous medium supplied by said device to said working space, a burner operatively associated with said working space for supplying heat to a portion thereof, second conduit means for directing a part of the gaseous medium supplied by said device to said burner, and means drivingly connecting said crankshaft to said device.

2,664,699

MULTICYLINDER DOUBLE-ACTING HOT-GAS RECIPROCATING ENGINE

Jacob Willem Laurens Köhler, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., trustee

Application November 10, 1951, Serial No. 255,778
Claims priority, application Netherlands November 24, 1950
4 Claims. (Cl. 60—24)



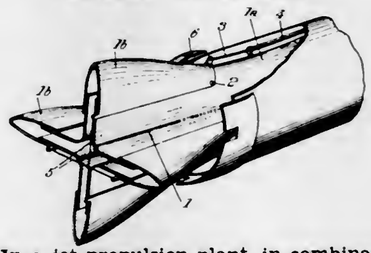
1. A multi-cylinder, double-acting hot-gas reciprocating engine comprising a heater, regenerator, cooler, and hot and cold chambers in each cylinder wherein each hot chamber is connected through a heater, a regenerator and a cooler to the cold chamber of another cylinder, and said cooler surrounds said cold chamber and has part thereof abutting the latter, said regenerator being also positioned to abut said cooler, and the connection between said regenerator and said hot chamber being at least partly occupied by said heater.

2,664,700

JET PROPELLED AIRCRAFT TAIL UNIT

Edmond Benoit, Paris, France, assignor to Office National d'Etudes et de Recherches Aeronautiques (O. N. E. R. A.), Paris, France, a society of France

Application November 12, 1948, Serial No. 59,551
Claims priority, application France March 20, 1948
2 Claims. (Cl. 60—35.54)



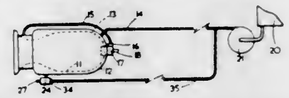
1. In a jet propulsion plant, in combination, a jet nozzle having its rear part shaped to constitute at least two flat branches located in planes parallel to the axis of said nozzle and making together a dihedral angle, said branches including a fixed central portion and a movable marginal section slidable on said fixed portion, and means for controlling the position of said marginal portion with respect to said fixed portion.

2,664,701

COMBUSTION EQUIPMENT OF ROCKET MOTORS

Sidney Allen and Edward G. D. Andrews, Coventry, England, assignors to Armstrong Siddeley Motors Limited, Coventry, England

Application August 7, 1951, Serial No. 240,725
Claims priority, application Great Britain September 8, 1950
5 Claims. (Cl. 60—39.09)



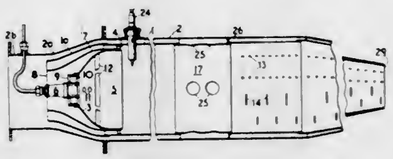
1. A rocket motor, of the kind in which liquid propellents, supplied under pressure, are burnt or dissociated, including a jacketed combustion chamber, a supply pipe for delivering one of the propellents to the jacket space to be circulated therein for cooling the combustion chamber before entering the latter, a pressure-responsive dump valve connected to said jacket space, said dump valve biased to the open position, means comprising a check valve for conveying said one propellent from said jacket space to the combustion chamber, and a pipe branching from said supply pipe and applying the static pressure of the supply to close said dump valve, said static pressure available only while the motor is operating.

2,664,702

COOLED FLAME TUBE

Peter Lloyd, Farnham, Walter Frederick Shilling, Woking, John Brown, Highfields, and Raymond Arthur Boulter, Great Yarmouth, England, assignors to Power Jets (Research and Development) Limited, London, England, a British company

Application July 29, 1948, Serial No. 41,277
Claims priority, application Great Britain August 11, 1947
1 Claim. (Cl. 60—39.65)



In combustion apparatus in which fuel is to be burnt in a fast-moving airstream, and comprising an outer tubular casing having an inlet for the stream, a tubular flame tube within the casing, a hollow baffle centrally located in one end of the flame tube defining a primary combustion zone, and means for injecting fuel into said zone, said baffle being apertured to provide an inlet for part of said stream as primary combustion air to said zone, and said flame tube having an outlet at its other end, whereby the flame tube defines a path for a stream of hot combustion gases; means for directing a layer of cooling air along the inside of the flame tube wall, said means comprising a tubular member enclosing the baffle and projecting for a short distance into the end of the flame tube and defining therewith an annular gap providing a path from the casing into the flame tube for a stream of cooling air, the gap being so dimensioned in relation to the conditions inside and outside the flame tube in the conditions of operation, that the velocity of

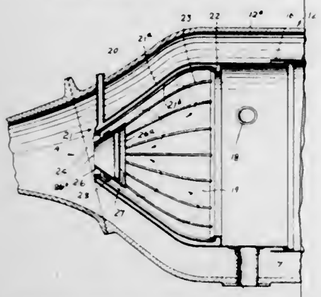
said stream of cooling air through the gap is substantially the same as the velocity of said stream of hot combustion gases.

2,664,703

PREHEATER AND VAPORIZER FOR GAS TURBINE ENGINES

Walter B. Whitelaw, Toronto, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation

Application June 24, 1950, Serial No. 170,087
9 Claims. (Cl. 60—39.71)



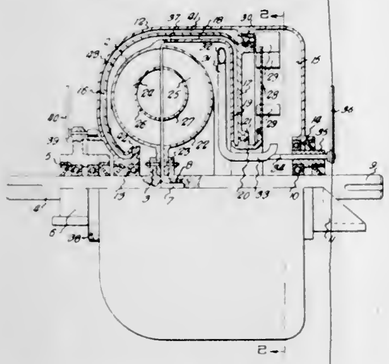
9. A vapourizing system for a gas turbine engine comprising, a flame tube wall encircling a flame zone and providing an opening for admitting a stream of air to the flame zone, an outer wall spaced from the first wall and providing between the walls an annular liquid fuel preheating space of appreciable axial length, a conduit leading to one end of the said space for introducing liquid fuel, fuel discharge nozzles communicating with the other end of the said space, and a baffle disposed in the opening and deflectively interposed in the path of discharge of the nozzles to scatter the fuel in the air stream.

2,664,704

ROTARY, TOROIDAL CHAMBER TYPE HYDRAULIC COUPLING AND FLUID CIRCULATING CONTROLS THEREFOR

John Edward Becker, Darlington Township, Durham County, Ontario, Canada

Application June 17, 1952, Serial No. 294,108
5 Claims. (Cl. 60—54)



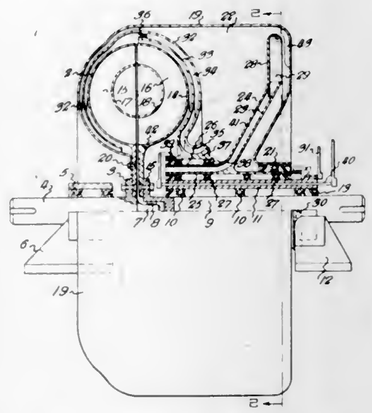
1. In combination with a fluid coupling assembly comprising a driving shaft and an impeller housing coupled to the driving shaft, a runner housing contained within the impeller housing and coupled to a driven shaft, and a coupling bleeding scoop pipe mounted within the impeller housing and communicating with a freely mounted, fluid frictionally rotated fluid reservoir; a fluid passage extending from said reservoir to said coupling assembly defined by a pair of spaced apart inner and outer shells surrounding said coupling assembly and rotatable with said fluid reservoir; a fluid pump operatively connected between said impeller housing and said rotatable reservoir for pumping fluid from said reservoir through said fluid passage to said coupling assembly; check valve means in said fluid passage; and means for controlling the rotative speed of said reservoir.

2,664,705

FILLING AND EMPTYING FLUID CONTROL MEANS FOR ROTARY HYDRAULIC COUPLINGS

John Edward Becker, Darlington Township, Durham County, Ontario, Canada

Application August 26, 1952, Serial No. 306,380
6 Claims. (Cl. 60—54)



1. In combination with a fluid coupling assembly comprising a driving shaft and an impeller secured thereto, a driven shaft in alignment with the driving shaft and having a runner secured thereto, a rotatable outer shell attached to the driving shaft and constituting a fluid reservoir and within which the impeller and runner are contained, of a freely mounted inner shell positioned within one end of the outer shell and surrounding the impeller and runner, the inner shell comprising a pair of spaced apart walls adjacent to the runner, the space between said walls constituting a check valve controlled fluid outlet passage between the inner shell and the outer shell, a freely mounted rotatable scoop element contained within the outer shell and forming a fluid injection communication between the outer shell and the inner shell, and brake elements controlling the rotative speeds of the inner shell and the scoop element.

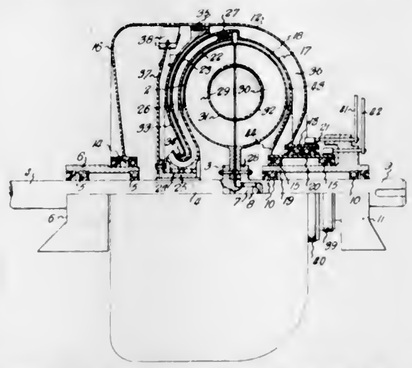
2,664,706

ROTARY, TOROIDAL CHAMBER TYPE HYDRAULIC COUPLING AND FLUID CIRCULATING CONTROLS THEREFOR

John Edward Becker, Darlington Township, Durham County, Ontario, Canada

Application December 2, 1952, Serial No. 323,601
10 Claims. (Cl. 60—54)

1. In combination with a fluid coupling assembly comprising an impeller secured to a driving shaft and a runner positioned adjacently to the impeller and secured to a driven shaft, an outer fluid frictionally driven freely rotatable shell within which the coupling assembly is contained, a fluid reservoir coupled to the shell and rotatable therewith, an impeller wheel rotatable with the driving shaft and contained within the reservoir to constitute a fluid pump, a pumped fluid passage extending from the reservoir to the



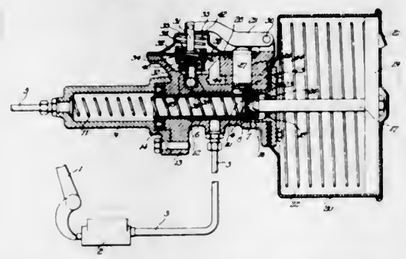
impeller and runner, and brake means for controlling the rotative speed of the outer shell, of a fluid frictionally driven freely rotatable inner coupling shell contained within the outer shell to surround the impeller and runner, a check valve controlled passage forming a fluid communication between the inner coupling shell and the reservoir, and brake means for controlling the rotative speed of the inner shell.

2,664,707

SERVO ASSISTED OPERATING MECHANISM

Stanley Howard Edge, Lincoln, England, assignor to Clayton Dewandre Company Limited, Lincoln, England

Application August 15, 1950, Serial No. 179,520
1 Claim. (Cl. 60—54.5)



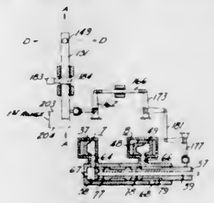
A servo-assisted operating mechanism, comprising a hydraulic cylinder having means at its forward end for connecting it to at least one output cylinder, a valve casing secured to the rear end of the hydraulic cylinder and having a cylindrical chamber therein at the rear end of the hydraulic cylinder, a vacuum cylinder secured at one end to the valve casing in axial alignment with the hydraulic cylinder, a manually operable master cylinder communicating with said cylindrical chamber, a valved piston movably mounted within the hydraulic cylinder and having a central opening therein through which the master cylinder normally communicates with the output cylinder and a coned valve seat surrounding said opening, a spring opposing forward movement of said valved piston, a piston disposed within the vacuum cylinder and having a piston rod projecting into said cylindrical chamber, said piston rod having a coned end surface and being adapted, upon operation of said piston, to be advanced into the hydraulic cylinder by its initial movement to engage its coned end surface with the coned valve seat of the valved piston to close said opening therein and by its further advance to impart movement to the valved piston and thereby boost the pressure of fluid in the hydraulic cylinder, a valve chamber in said valve casing having a first passage for communication between said valve chamber and a source of vacuum and having a second passage for communication between said valve chamber and the vacuum cylinder, a spring-loaded disc valve member arranged normally to close said first passage, a lever pivotally mounted upon said valve casing externally thereof and having a free end, a flexible diaphragm peripherally secured to the walls of said valve chamber and exposed on one side to atmosphere, a cylindrical member secured centrally to said diaphragm and connected to the free end of said lever and formed with ports through which said second passage and the vacuum cylinder normally communicate with atmosphere, said valve casing having a cylindrical bore which extends inwardly from the exterior thereof and communicates at its inner end with the master cylinder and said cylindrical chamber at the rear of the valved piston, a plunger slidably mounted in said cylindrical bore, said plunger projecting outwardly beyond the outer end of said bore to bear against said lever intermediately of the ends thereof and being subjected at its inner end to the pressure of fluid in the master cylinder, and being operable, upon an increase in said fluid pressure, to actuate said lever to move said cylindrical member initially into engagement with the disc valve member to cut off the vacuum cylinder from atmosphere and subsequently by further movement of said cylindrical member to unseat said disc valve member and thereby place the vacuum cylinder in communication with the source of vacuum to effect operation of the piston therein.

2,664,708

HYDRAULIC CONTROL SYSTEM

Emil F. Norelius, Michael Toth, and David Rinkema, Springfield, Ill., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

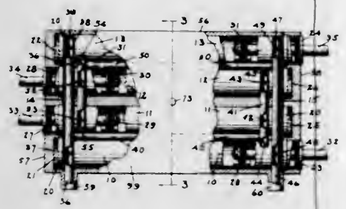
Application March 7, 1950, Serial No. 148,147
19 Claims. (Cl. 60—97)



1. A hydraulic system comprising, in combination, a plurality of fluid motors, primary valve means adapted to direct pressure fluid selectively to any one of a first group of said fluid motors, secondary valve means adapted to direct pressure fluid selectively to any one of a second group of said fluid motors, an axially shiftable rock shaft, a first movable actuating element, means connecting said rock shaft in shift transmitting and rotatable relation with said first actuating element, means operatively connecting said first

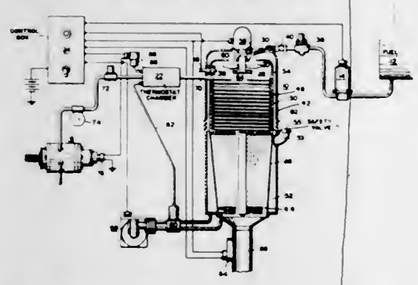
actuating element in motion transmitting relation with one of said primary and secondary valve means, a second actuating element connected with said rock shaft in rotatively fixed and axially slidable relation thereto, and means operatively connecting said second actuating element in motion transmitting relation with the other of said primary and secondary valve means.

2,664,709
POWER UNIT FOR TIRE INSPECTION STANDS
Philip E. Chollet, Indianapolis, Ind.
Application July 12, 1951, Serial No. 236,402
3 Claims. (Cl. 60—97)



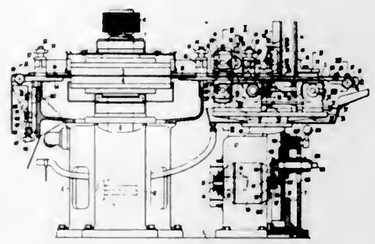
1. An operating unit comprising a pair of cylinders closed off at both ends; a second pair of cylinders closed off at both ends; said cylinders in each of said pairs being interconnected by passageways at both ends, and having a passageway in each instance interconnecting the passageway between one set of ends in one cylinder pair, with the passageway between the opposite set of ends in the second cylinder pair; a piston in each of said cylinders; and a piston rod connected to each of said pistons and extending through common ends of the cylinders in one pair in one outward direction, and through the opposite, common ends of the cylinders in the second pair; means for supporting said cylinders in fixed relation one with the other; a guide bar fixed to said means; and crossheads fixed respectively to said rods of each cylinder pair; said crossheads being slidably engaged on said bar.

2,664,710
VAPOR PRESSURE STARTER FOR INTERNAL-COMBUSTION ENGINES
Walter D. Teague, Jr., Alpine, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application March 9, 1949, Serial No. 80,543
3 Claims. (Cl. 60—106)



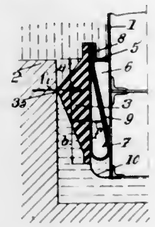
1. A starter system for internal combustion engines comprising, a starter motor, a vapor generator for producing vapor under pressure to drive said motor including a combustion chamber and exhaust means therefor and fluid containing means having inlet and outlet means and having surfaces in heat exchanging relationship with said combustion chamber, means supplying fluid to said fluid containing means, means for introducing a combustible mixture into said combustion chamber, means for igniting said combustible mixture, means for forcing the combustion products over said heat exchanging surfaces and out said exhaust means, temperature responsive switch means adjacent said exhaust means, control circuit including circuit closing means energizing said combustible mixture introducing means, ignition means, forcing means and supply means, means for deenergizing said circuit if vapor attains a predetermined temperature, and means for deenergizing said circuit upon said motor reaching a predetermined speed, and said temperature responsive switching means being adjacent said exhaust means for maintaining said forcing means in operation after the deenergization of said circuit until the temperature of said exhaust means has dropped to a predetermined safe temperature.

2,664,711
GRINDING OR HONING MACHINE
John William Howlett, Lymington, England, assignor of one-half to Wellworthy Piston Rings Limited, Lymington, England, a British company
Application August 6, 1951, Serial No. 240,543
Claims priority, application Great Britain August 23, 1950
11 Claims. (Cl. 51—112)



1. A machine for abrading the side walls of split piston rings comprising a feed table, a magazine thereon for the rings to be machined, a pair of horizontal abrading wheels rotatably mounted one above the other about vertical axes and with a gap therebetween at the level of the feed table, means operatively connected to said abrading wheels to rotate said wheels in opposite directions, conveyor means for the rings mounted for movement along said feed table from said magazine towards said abrading wheels and arranged to remove the rings successively from said magazine and feed them along said feed table to the gap between said abrading wheels, driving means operatively connected to said conveyor means, and guide means extending between said abrading wheels to guide the rings between said wheels substantially diametrically thereacross whereby both sides of the rings are abraded simultaneously, said magazine comprising a V-shaped member and a T-shaped member both arranged vertically above the feed table, said V-shaped member being on the side nearer said abrading wheels, and said T-shaped member being on the side more remote therefrom and the web of the T being such that it can fit within and locate the ring gaps.

2,664,712
FLUID TIGHT PACKING FOR GATES
Guy Charles Marie Parmentier, Vaucresson, France
Application February 14, 1951, Serial No. 210,881
Claims priority, application France February 17, 1950
11 Claims. (Cl. 61—22)



1. A packing device for ensuring a fluidtight joint between two parts movable with respect to each other and separating a high pressure space on the upstream side of said joint from a low pressure space on the downstream side thereof, this device including a packing member in the form of a strip of a flexible material carried by one of said parts and including a ridge adapted to bear against the other part so as to form a separation between the space on the upstream side and the space on the downstream side, said strip being fixed to the first mentioned part along its edge located on the upstream side of the joint and said ridge extending in a direction at least substantially parallel to that of said strip and being located nearer to the fixation edge than to the other edge thereof, an inflatable chamber interposed between the rear face of said packing strip and said first mentioned part, and means for placing the inside of said inflatable chamber under different pressures at will.

2,664,713
AUTOMATIC IRRIGATION DAM
Porter Chester Baker, Nampa, Idaho
Application August 1, 1950, Serial No. 177,062
1 Claim. (Cl. 61—29)



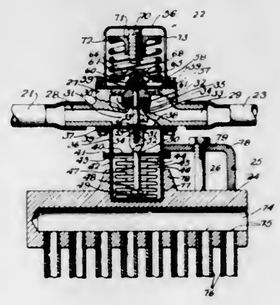
An irrigation canal dam comprising a support, a rockable gate supporting shaft journaled on the support, means on the shaft for detachably securing the upper portion of a flexible gate thereto to be supported in closed position thereby upon rotation of said shaft in one direction, a pin on the shaft, a tube on the support having a longitudinal slot therein, a bracket on the support, a trigger pivotally mounted on said bracket and engageable with the pin for releasably securing the shaft against rotation in the opposite direction, a lever pivotally mounted on the bracket and engaged at one end with the trigger for releasably securing same in operative position, the other end portion of said lever being engageable on the tube for retention thereby in operative position, a rod slidable in the tube, a yoke on the rod operable in the slot and straddling the lever for operatively connecting the rod thereto, and means for actuating the rod for disengaging the lever from the tube and releasing the trigger for freeing the shaft for rotation in said opposite direction.

2,664,714
DAM
Ulrich Finsterwalder and Philipp Ebert, Muenchen, Germany, assignors to Dyckerhoff & Widmann Kommanditgesellschaft, Muenchen, Germany, a German company
Application January 15, 1952, Serial No. 266,468
3 Claims. (Cl. 61—30)



1. In an arc-shaped dam particularly for the control of flood waters a plurality of vertical spacedly adjacent recesses in the crest portion of the dam, said recesses extending in the radial direction of the dam crest from its one face to its opposite face, the size and the number of said recesses being controlled to prevent the dam crest to transmit compression stresses in the peripheral direction of the dam and means to close the said recesses.

2,664,715
CONTROL VALVE FOR SPRAY SYSTEMS
William F. Borgerd, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application December 29, 1950, Serial No. 203,450
4 Claims. (Cl. 62—3)



1. In combination, a refrigeration system having a condenser as one member of the high side, means for supplying a cooling liquid to said condenser, a valve for controlling the operation of said means, said valve comprising a valve body having an inlet chamber and outlet chamber connected by a valve port, a valve member adapted to open and close said valve port, a tubular spacer member having low heat conductivity properties secured to said body, a wall member

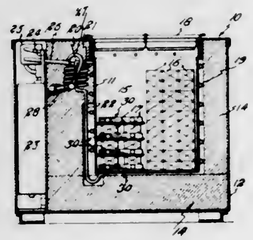
closing one end of said spacer member, a housing secured to said spacer member, whereby said housing is thermally separated from said valve a thermostatic power element in said housing, and means for connecting said valve member and said power element, said valve positioned with said housing in heat exchange relationship with a portion of said high side, said power element moving said valve member to open position when said portion reaches a predetermined temperature.

2,664,716

REFRIGERATION APPARATUS AND METHOD EMPLOYING COLD ACCUMULATOR

Nils Magnus Warmon, Stockholm, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden

Application February 26, 1949, Serial No. 78,480
Claims priority, application Sweden March 2, 1948
10 Claims. (Cl. 62—95)



1. In a method of refrigeration, the steps which comprise artificially producing a refrigerating effect by a refrigeration system at a place of cooling which is disposed exteriorly of a thermally insulated space and in thermal relation therewith to maintain such space at a desired low temperature to preserve matter therein below the freezing temperature of water when the load in said space is in a first range, positioning one or more readily movable bodies of eutectic solution in the interior of said space when the load therein is in said first range so as to congeal said body or bodies of solution, and, while said congealed body or bodies are positioned within said space, resiliently holding the latter in thermal contact with matter so as to promote cooling of such matter below the freezing temperature of water in conjunction with said artificially produced refrigerating effect, especially when the load in said space is in a second higher range.

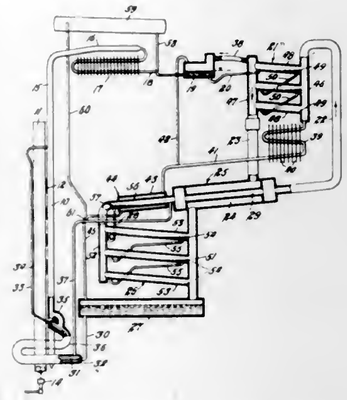
2,664,717

ABSORPTION REFRIGERATION SYSTEM OF THE INERT GAS TYPE

Sigurd Mattias Backstrom, Stockholm, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden

Application April 22, 1950, Serial No. 157,586
Claims priority, application Sweden May 5, 1949
9 Claims. (Cl. 62—119.5)

1. In absorption refrigeration apparatus, a circuit for circulation of inert gas including evaporating means in which liquid refrigerant evaporates in the presence of inert gas to produce a refrigerating effect and absorbing means in which refrigerant vapor is absorbed from inert gas into absorption liquid, at least one of said means comprising a pair of spaced apart vertically extending end headers, a number of horizontally extending conduits at different levels, each of said conduits having one end connected to one end header and the opposite end connected to the other end header, means for conducting liquid for said one means to the uppermost conduit, and connections for conducting



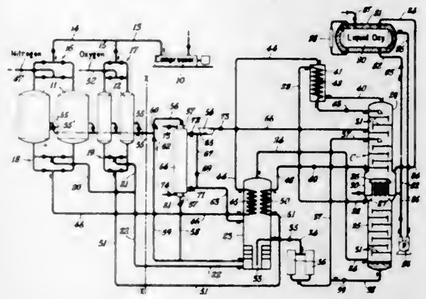
liquid through successively lower conduits for gravity flow therein, the circulation of inert gas through said conduits in a number of parallel flow paths from one header to the other header being effected solely due to the varying partial pressure of refrigerant vapor in different parts of the inert gas circuit.

2,664,718

PROCESS OF AND APPARATUS FOR LOW-TEMPERATURE SEPARATION OF AIR

Philip K. Rice, Kenmore, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application October 11, 1949, Serial No. 120,788
19 Claims. (Cl. 62—122)



1. In a process for the low-temperature separation of air by rectification in which air freed of moisture and carbon dioxide is at least partly liquefied and the gaseous and liquefied portions are rectified to separate oxygen and nitrogen products, which products are used to cool further portions of air, supplying the entire low-temperature refrigeration requirement for such process which exceeds that regained from the warming of said oxygen and nitrogen rich products during at least a substantial period of continuous operation by providing a body of liquid having a composition similar to one of the liquids involved in the air separation process; holding such body of liquid at low temperature

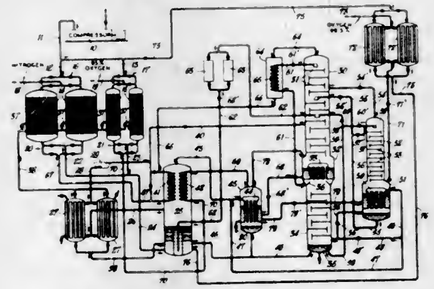
and separate from the liquids present in the separation process; and, during said period of continuous operation, continuously feeding portions of said body of liquid to the rectification where the liquid composition is similar to that of the body of liquid, and at a rate sufficient to supply said entire low-temperature refrigeration requirement, the gas products resulting from the liquid fed to the rectification from said body supplementing said oxygen and nitrogen rich products in cooling the further portions of air.

2,664,719

PROCESS AND APPARATUS FOR SEPARATING GAS MIXTURES

Philip K. Rice and Edward F. Yendall, Kenmore, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application July 5, 1950, Serial No. 172,138
20 Claims. (Cl. 62—122)



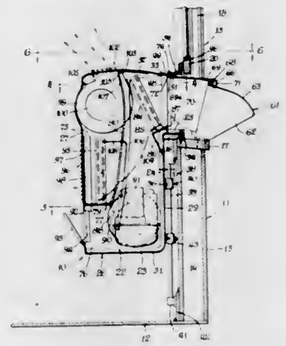
1. In a process for the low-temperature separation of air provided at a condensation pressure below 125 p. s. i., cooled to a temperature of condensation of at least one of the constituents and freed of a major portion of the moisture, carbon dioxide, and hydrocarbon impurities of atmospheric air, the steps including subjecting such air to a plurality of condensations at said pressure for providing oxygen-rich liquids, one of said condensations being effected under preliminary rectifying conditions producing also a nitrogen-rich fraction; subjecting at least a major portion of such oxygen-rich liquid fractions to a main rectification at low pressure to produce an oxygen enriched liquid containing less than 99% oxygen; producing said nitrogen rich fraction solely by heat exchange with oxygen-enriched liquid containing less than 99% oxygen, said nitrogen fraction thereby being condensed at a pressure substantially equal to the condensing pressure of nitrogen corresponding to the temperature of boiling of the oxygen-enriched liquid at said low pressure employing said nitrogen-rich fraction as reflux in said main rectification to produce a nitrogen product of very low oxygen content; separately withdrawing nitrogen product and a main oxygen product from said oxygen-rich liquid of less than 99% oxygen and effecting heat exchanges to utilize the refrigeration of said products to cool incoming air; subjecting an oxygen-containing liquid remainder of at least one of said oxygen-rich liquids to a separate rectification at low pressure to produce a high-purity oxygen product of over 99% oxygen and an effluent gas of lower oxygen content; passing such effluent gas to join with the vapors in said main low-pressure rectification; and withdrawing said high purity oxygen product while effecting indirect heat exchange between incoming air and such product.

2,664,720

WALL MOUNTED CONSOLE TYPE AIR CONDITIONING APPARATUS

William F. Borgerd, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey

Application July 11, 1952, Serial No. 298,309
13 Claims. (Cl. 62—129)



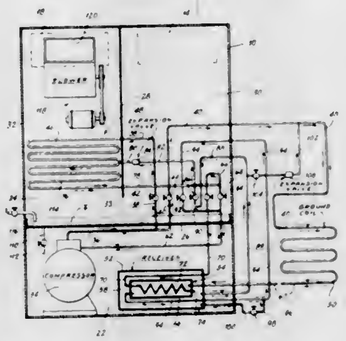
1. In an air conditioning unit, an outer casing disposed entirely within a room which is to be conditioned, a refrigeration system positioned within said casing, means for securing said casing to a wall of said room with the lowermost portion of the casing being spaced above the floor of said room, said casing having a wall located adjacent said room wall, a leg member having one end pivotally secured to said casing wall and an opposite end engaging said room wall, and movable means secured to said leg member intermediate said ends which abuts said casing wall and holds it in parallel relationship to said room wall.

2,664,721

REVERSE CYCLE HEATING AND COOLING SYSTEM

Dominic T. Intagliata, St. Louis, Mo.

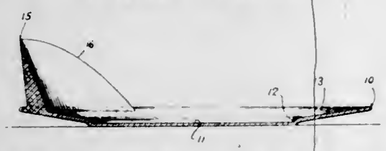
Application July 11, 1951, Serial No. 236,158
4 Claims. (Cl. 62—129)



1. In a reverse cycle system for either heating or cooling an enclosed space: refrigeration apparatus including a compressor mounted in the lower compartment of a casing; a receiver tank also mounted in said lower compartment; a heat exchange unit supported within said tank; a coil mounted in the upper compartment of said casing, said coil including an upper and a lower half section, both said half sections together providing a condenser unit during heating cycles,

said lower half section only providing an evaporator unit during cooling cycles; a coil buried in the ground remote from said casing, said coil providing an evaporator unit during heating cycles and a condenser unit during cooling cycles; conduit means for establishing fluid inter-communication between said compressor, said receiver tank, said heat exchange unit and said coils; a plurality of manually operable valves incorporated in the conduit means for regulating the flow therethrough of a volatile refrigerant hermetically sealed therein; a vertical wall in the casing for dividing said upper compartment into an inlet and an outlet chamber portion, said first named coil being mounted in said outlet chamber portion; and a blower assembly also mounted in the outlet chamber portion of the casing above first named coil.

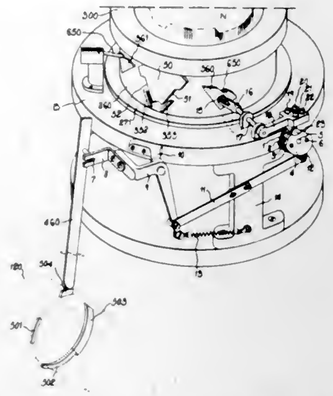
2,664,722
PLATE FOR SERVING PIE
Elizabeth A. Barr, Okemah, Okla.
Application February 21, 1952, Serial No. 272,803
3 Claims. (Cl. 65—15)



1. A serving plate comprising a flat body of substantially circular shape having a central portion and a flat annular rim surrounding said central portion and inclined upwardly and outwardly from the latter, and a single formation upstanding from said rim adjacent the outer edge thereof and extending partly therearound, said formation tapering in thickness from said rim to the outer edge of the formation and tapering in width from its mid-length location to the opposite ends thereof and being longitudinally curved on a curvature corresponding to the curvature of the outer edge of said rim and having a length not materially greater than one fourth the annular extent of said rim.

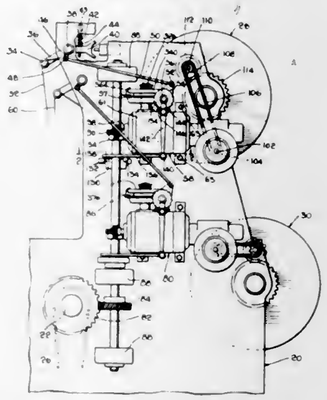
2,664,723
CIRCULAR MULTIFEED HOSIERY KNITTING MACHINE
John J. McDonough, Belmont, N. H., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application September 8, 1951, Serial No. 245,719
13 Claims. (Cl. 66—54)

1. A circular hosiery knitting machine adapted to knit multi-feed on both rotary and reciprocatory knitting, having the following combination of needles and needle-cooperating elements: a circle of sinkers with nebs thereon, cams to withdraw the sinkers at each feed, a circle of independent needles with wide portions on the side of the shanks facing the sinker nebs and intercalated with the sinkers, means adapted to cause the needles to draw stitches at at least two feeds during reciprocatory knitting while keeping the wide portions of the needles below the sinker nebs, and other means to raise needles to idle position progressively, the dimensions and movements of the sinker cams, sinkers, needle cams and needles being so related that needles so elevated present their wide portions opposite the sinker nebs and the latter do not clear the circle formed by those portions of the idle needles but do clear the circle formed by the shank side of the hooks of the active needles, and adjusting means adapted to cause the stitch means to draw stitches of special length in the rotary direction



at the last feed during reciprocatory knitting, whereby improved multi-feed, reciprocatorily knit fabric is produced.

2,664,724
WARP KNITTING MACHINE
Fritz Lambach, Tenafly, and Walter Siegel, Union City, N. J., assignors to Robert Reiner, Inc., Weehawken, N. J.
Application December 28, 1951, Serial No. 263,888
7 Claims. (Cl. 66—86)



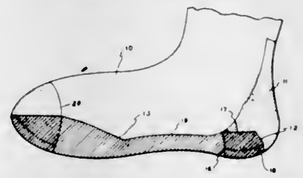
1. In a warp knitting machine, the combination of: a rotatable warp beam arranged for feeding warp yarns to knitting implements of the machine, a variable speed drive including a rotatable output element arranged for rotating said warp beam, said variable speed drive including further a movable adjusting element associated with said output element for adjusting the speed of the latter, said adjusting element being settable in various positions, movable setting means associated with said adjusting element for setting same in a predetermined position, automatic controlling means associated with said adjusting element for moving same during the operation of the machine from said predetermined set position into another position so as to maintain a substantially constant circumferential speed of the progressively decreasing winding of yarn on said warp beam, a fixed member bearing a first scale having a logarithmic calibration of the length of warp yarn to be fed in inches per rack, and a movable slider having a first mark for cooperation with said first scale whereby said slider may be set in a predetermined position, said movable setting means bearing a second scale having a logarithmic calibration of the circumference of the winding in inches, and said slider having a second mark for cooperation with said second scale whereby said setting means may be brought into a predetermined position relative to a set position of said slider so as to set said adjusting element in a predetermined position for adjusting a predetermined number of revolutions per rack of said warp beam.

2,664,725
KNITTED CAP AND METHOD OF MAKING THE SAME
Walter E. Schuessler, Chicago, Ill.
Application February 15, 1952, Serial No. 271,778
3 Claims. (Cl. 66—171)



1. A knitted cap formed of a single knitted and uncut swatch having at the front thereof a V-shaped recess with pointed portions on either side and having at the rear spaced V-shaped recesses separated by a pointed portion, the length of said swatch being determined by the outer ends of said V-shaped recesses at the rear of the swatch, the sides of the recesses being stitched together to form a cap body with a central seam from the front terminating at the top of the cap and with seams extending in a diverging relation from the rear base of the cap and terminating laterally of said central seam.

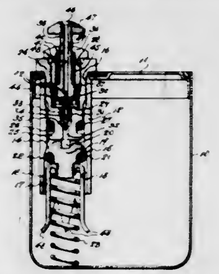
2,664,726
STOCKING AND METHOD OF MAKING SAME
Manuel M. Lihn, Clementon, N. J.
Application December 22, 1949, Serial No. 134,479
7 Claims. (Cl. 66—182)



1. A single unit full-fashioned stocking having a nylon leg and instep, a nylon reinforced heel and toe, and a sole portion reinforced with silk yarn over its walking surface only, no part of said reinforced sole portion being visible when in use.

2,664,727
SELF-SEALING TANK TO CONTAIN GAS UNDER PRESSURE
Charles S. Gehrie, Mendham, N. J.
Application August 7, 1951, Serial No. 240,656
4 Claims. (Cl. 67—7)

1. In combination with a compressed gaseous fuel charged tank for replaceable use in a pyrophoric pocket lighter, a detachable independent gas dispensing valve means for said tank, an endwise open cylindrical housing affixed to the top wall of said tank to depend therefrom into the tank interior, said housing having an upper bore section and a lower bore section of enlarged diameter with an annular seating shoulder therebetween, the mouth of the upper bore section being internally screw-threaded to receive detachable threaded coupling connection of the dispensing valve means with said housing, means for normally sealing the tank against discharge of the gaseous fuel therefrom, said sealing means comprising a downwardly open cylindrical thimble of less diameter than that of the lower bore section of said housing and of greater diameter than the upper bore section of said housing, whereby the upper end of said thimble can normally seat upon said seating shoulder, a head-

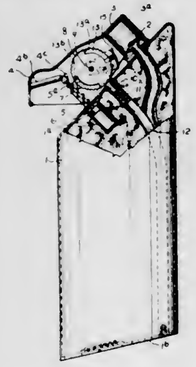


piece unitary with the upper end of said thimble, and of less diameter than that of the upper bore section of said housing into which it normally projects, and O seal ring carried by said head-piece adapted to make sealing contact with the wall surface of said upper bore section of the housing when the thimble is seated on said seating shoulder, and a compression spring to yieldably urge said thimble to seated engagement with said seating shoulder, operative coupled connection of the dispensing valve means in the upper bore section of the housing being adapted to engage and depress said head-piece and thimble against the tension of said spring, whereby to withdraw said O seal ring from the upper bore section into the enlarged lower bore section of the housing, and thus to open said sealing means to outflow of gaseous fuel from the tank under control of the dispensing valve means.

2,664,728
PYROPHORIC LIGHTER
Harry Schweitzer, Toronto, Ontario, Canada
Application April 21, 1953, Serial No. 350,061
4 Claims. (Cl. 67—7.1)

1. A pyrophoric lighter comprising a fuel-containing casing, a friction wheel rotatably mounted on the casing and having an irregular peripheral surface, a pyrophoric element urged into frictional engagement with said surface, the friction wheel having opposite side surfaces with ratchet formations thereon, the ratchet formation on each side surface comprising a plurality of ratchet teeth at spaced apart locations around the axis of the wheel, the ratchet teeth on one side surface being in staggered relationship to the ratchet teeth on the other side surface, a yoke member rotatably mounted on the casing coaxially with the friction wheel and adapted to oscillate coaxially therewith without interfering with the frictional engagement of the friction wheel and the pyrophoric element, a

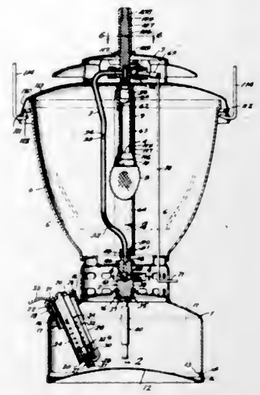
pawl bar slidable in the yoke member parallel to the axis of the friction wheel and adjacent the peripheral surface of the friction wheel, the pawl bar having a first tooth adapted to engage the ratchet teeth on said one side surface of the friction wheel and a second tooth adapted to engage the ratchet teeth on said other side surface of the friction wheel, a finger piece movably mounted on the casing, a spring biasing the finger piece to one position, the finger piece being movable against the force of the spring to another position, and means coupling the yoke member to the finger piece whereby movement of the finger piece from said one position to



said other position causes rotation of the yoke member in one sense, the first tooth on the pawl bar engaging a ratchet tooth on said one side surface of the friction wheel causing the friction wheel to rotate in said sense against the pyrophoric element, movement of the finger piece from said other position to said one position causing rotation of the yoke member in the opposite sense, the pawl bar riding over the ratchet formations until the second tooth is adapted to engage a ratchet tooth on said other side surface of the friction wheel on a subsequent movement of the finger piece from said one position to said other position.

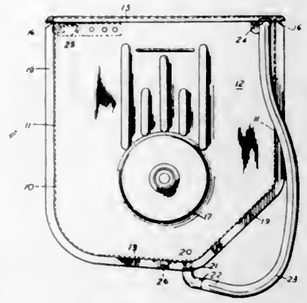
2,664,729
HYDROCARBON FUEL BURNER
Carl Bramming, Anderson, Ind., assignor to Aladdin Industries, Incorporated, Nashville, Tenn., a corporation of Illinois
Application August 17, 1950, Serial No. 180,062
6 Claims. (Cl. 67—41)

1. A three position control mechanism operable to deliver hydrocarbon fuel from a tank to a burner comprising in combination, a housing defining a valve control cavity, means defining a fluid passage from the cavity to the burner, means defining a pair of fluid passages from the cavity extending into the fuel, each of the last passages defining a seating face adjacent the cavity, valves in said passages adapted to seat on the respective faces to close off the passages, spring means operable to urge the valves to seated positions, means associated with one of the last passages operable to atomize fuel passing therethrough, a handle outside the housing having a shaft portion extending into the cavity to points in registry with the last passages, the shaft portion defining cam elements in registry with the last passages, and cam followers extending from said cams to their respective valves, the cams and valves being so constructed and arranged that in one handle position both valves are closed, in a second handle position one is closed and the other opened, and in a third



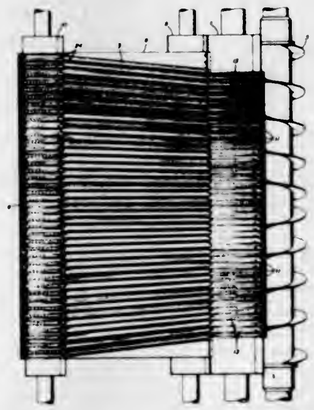
handle position said one valve is opened and the other closed.

2,664,730
CLOTHES-WASHING MACHINE
William Charlton Bell, London, and Victor Alfred Graham Curry, Greenford, England, assignors to Hoover (Washing Machines) Limited, Perivale, England, a company of Great Britain
Application February 10, 1948, Serial No. 7,378
1 Claim. (Cl. 68—131)



A washing machine comprising; an open topped container shaped in general form of a rectangular solid; said container having a pair of parallel side walls in the form of irregular pentagons; a continuously rotating impeller mounted for rotation in one of said side walls on a horizontal axis on the vertical median line of said one side wall with said impeller lying closely adjacent thereto and toward the bottom thereof; each of said side walls having a top horizontal edge extending from front to rear of said container, a rear vertical edge extending from top to bottom of said container, a bottom substantially horizontal edge extending from the rear edge to a point slightly past the median line of said side walls, a front vertical edge extending from the top edge to a point substantially level with the axis of said impeller, and a front downwardly and rearwardly substantially straight inclined edge extending from the lower end of said front vertical edge to the front end of said lower edge; said container having rear, bottom and front walls secured to the edges of said side walls and extending downwardly along said rear edges, forwardly along said bottom edges, upwardly and forwardly along said front inclined edges and upwardly along said vertical front edges; said impeller being rotated in a direction such that its periphery moves away from said front inclined edges toward said bottom edges and then toward said rear edges; said container being adapted to contain a cleansing liquid to a level above said impeller.

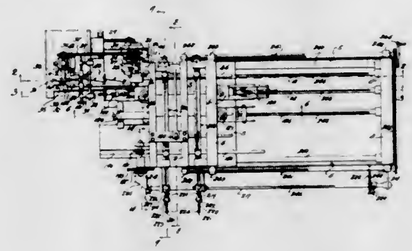
2,664,731
TRANSFER DEVICE FOR CONVEYERS
Robert H. Griffin, Yonkers, N. Y., assignor to Tanners' Research Corporation, New York, N. Y., a corporation of Delaware
Application November 9, 1950, Serial No. 194,771
4 Claims. (Cl. 69—1)



1. In apparatus for conveying limp sheet material and having a material treating zone, the combination of a conveyor formed of a plurality of flanking belts for conveying said material to said treating zone and beyond said treating zone, means for maintaining said belts in side contact over said treating zone to provide a smooth uninterrupted material supporting surface, means for spreading certain of said belts laterally from said treating zone to a point beyond said zone, and rotary means positioned beyond said treating zone and projecting between said certain belts beyond material supporting surface of said conveyor for progressively detaching work from said side.

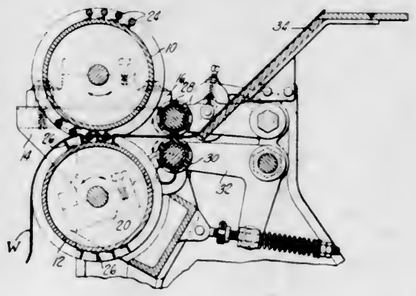
2,664,732
MACHINE FOR AUTOMATICALLY PRODUCING APPAREL BELTS AND LIKE STRAP BODIES
James Allen Tuck, Philadelphia, Pa., assignor, by mesne assignments, to Louis Krantz, New York, N. Y.
Application March 16, 1951, Serial No. 216,077
6 Claims. (Cl. 69—1)

1. In a machine for processing stock strips to produce belt or strap bodies therefrom wherein a plurality of work treating stations, at which are performed various processing operations, are spaced apart across a work supporting table between a work receiving station and a work discharge station; the combination with said table of automatic means for moving the work from station to station subject to the processing operations, said work moving means comprising a plurality of parallelly spaced guide structures mounted on and above the work supporting table to extend across the same, longitudinally reciprocable work propelling devices respectively slidable in the respective guide structures, each propelling device comprising a slide member having pivoted impeller members spaced therealong, said impeller members being oscillatable in plane perpendicular to the plane of said work supporting table toward and from the latter, a tractor bar intermediate the work supporting table and said slide member to which said impeller members are pivotally connected to swing the same to and



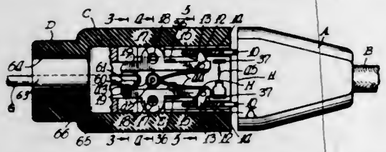
from work engaging positions, a lost motion connection between the slide member and tractor bar whereby after initial impeller member positioning movement of the latter continued movement thereof is transmitted to the slide member, said lost motion connection comprising a stop member affixed to the tractor bar having longitudinally spaced forward and rearward upstanding stop lugs and a cross-pin carried by said slide member subject to engagement by said stop lugs, and means to effect timed reciprocation of the work propelling devices.

2,664,733
HIDE AND SKIN TENSIONING MACHINE EMPLOYING FEED ROLLS
Charles R. Campbell, Jr., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 22, 1952, Serial No. 283,736
7 Claims. (Cl. 69—34)



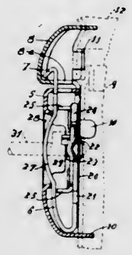
1. In a machine for tensioning dry hides and skins, the combination of a pair of rotary work rolls cooperatively arranged to tension and spread a work piece fed between them, a pair of feed rolls mounted at one side of said work rolls cooperatively to retard the said work piece as fed to said work rolls, one of said feed rolls having oppositely extending helical ribs of resilient material and each of said ribs being transversely distortionable.

2,664,734
LOCKING DEVICE FOR ELECTRICAL CONNECTIONS
Hugh G. McEneaney, New York, N. Y.
Application June 2, 1949, Serial No. 96,677
5 Claims. (Cl. 70—57)



5. A tubular lock for the parallel prongs of an electric plug having recesses therein, comprising an outer molded tubular body, a key-receiving casing in the rear end of said body and a prong-receiving casing in the front end thereof, said prong-receiving casing having parallel slideways to receive the prongs and parallel levers between said slideways said levers being pivoted intermediate their ends and having outwardly projecting teeth at the forward ends thereof, said teeth projecting into said slideways to engage said recesses in said prongs, the other ends of the levers having extensions toward said key-receiving casing between which the key is received.

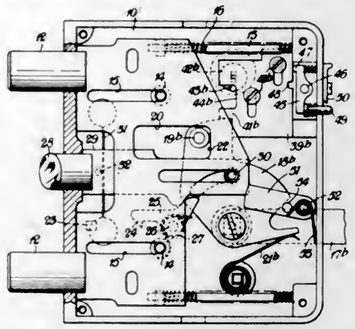
2,664,735
CONTAINER LATCH AND LOCK
Carl A. Vahlstrom, New Britain, and Philip J. Walther, Newington, Conn., assignors to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut
Application October 31, 1951, Serial No. 254,166
8 Claims. (Cl. 70—71)



1. A latch lock comprising a casing and a self-contained locking unit within said casing; the said unit including a U-shaped spring member having one leg thereof forming a movable bolt having a latching finger, the other leg of said member having a locking plate rotatable thereon with locking fingers movable, by rotation of said locking plate to a selected position, into register with the said bolt to prevent movement thereof, and a spring member secured to said other leg and engageable with the said locking plate to resist rotation thereof.

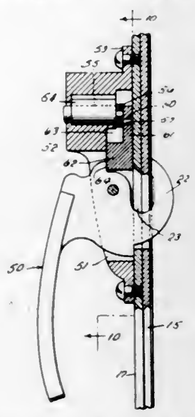
2,664,736
DOOR LOCK
Jacques François Gabriel Chobert, St. Etienne, France
Application April 18, 1950, Serial No. 156,515
2 Claims. (Cl. 70—150)

1. A door lock for cooperation with a strike box, comprising a housing, a spring-biased bolt plate slidable in the housing, a latch bolt mounted on the bolt plate for movement between a projected and retracted position, inside and outside operated handles pivotally mounted on the housing, a coupling member operatively connected to each handle, a lost motion connection between each coupling member and bolt plate enabling independent operation of said members, a spring-tensioned catch engageable with the bolt plate for retaining same in the retracted position, a latch plate associated with each coupling member for blocking movement of same, key-operated means for each latch plate to move same out of blocking position, the latch plate returning to



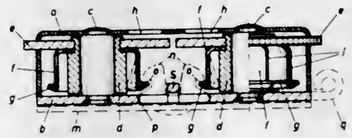
its blocking position by gravity as soon as the key is withdrawn from the lock, a spring-projected actuator bolt, a cam-like nose on the actuator bolt for retracting same upon striking the striking box, means on the actuator bolt for engaging the catch upon retracting movement thereof to release same so that the latch bolt may be shot into the strike box, a spring-actuated blocking pawl adapted to abut against said bolt plate for blocking retraction of the bolt plate, and means on said blocking pawl engageable by either of said coupling members for moving same out of blocking position upon bolt-retracting movement of such coupling member.

2,664,737
LOCKING DEVICE
Neil O. Holmsten, New Rochelle, N. Y.
Application December 22, 1949, Serial No. 134,575
1 Claim. (Cl. 70—211)



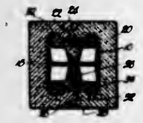
A locking device for a hinged casement window having a sash swinging outwardly and closing against a fixed frame, comprising a latch pivoted on the inside of said fixed frame having a latching finger extending through said frame to engage and latch said sash, a handle carrying said finger swinging inwardly from said frame and having a shoulder movable toward said frame, a lock having a bolt sliding along said frame to engage said shoulder when extended to prevent actuation of said latch, said lock having a rotatable key actuated cylinder, a crank arm attached to said cylinder and a pin connecting said crank arm to actuate said bolt, said bolt sliding between said shoulder and said frame, said frame extending beneath said shoulder to take the thrust of the handle and prevent the possibility of shearing the bolt when the handle is forced toward latch releasing position.

2,664,738
COMBINATION LOCK
Carl Paganini, Stuttgart, Germany
Application April 9, 1951, Serial No. 219,909
Claims priority, application Germany
May 25, 1950
8 Claims. (Cl. 70—312)



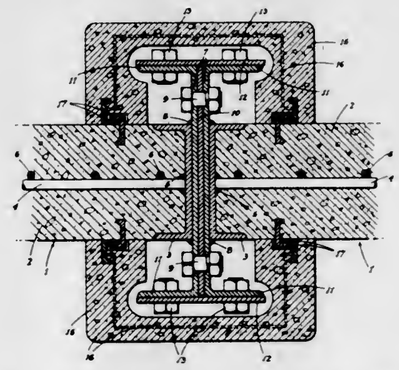
1. A combination lock comprising, in combination, a casing having a wall formed with at least one opening; a detachable keeper member including a lug formed with a recess and projecting into said opening in said casing; at least one setting means mounted in said casing and rotatable to a plurality of positions, said setting means including a radially projecting flange formed with a cut-out corresponding to one of said positions, and being composed of a plurality of resilient locking sections corresponding to each of the other of said positions, each of said locking sections consecutively passing said opening during rotation of said setting means projecting into said recess of said lug and engaging and holding said lug and thereby locking said keeper member to said casing, said keeper member being free to be detached only in the position of said setting means in which said cut-out registers with said opening, said resilient sections, when aligned with said opening, permitting insertion of said lug into said opening by resiliently giving; indicating means secured to said setting means and indicating the position of the same; and manually operated means connected to said setting means for rotating the same.

2,664,739
TILE COVERED, FIREPROOFED STRUCTURAL ELEMENT
John P. Marcy, Alhambra, Calif.
Application January 2, 1948, Serial No. 318
4 Claims. (Cl. 72—73)



1. Fireproofing structure for a pre-formed, metallic, elongated H-beam, said structure comprising a plurality of pre-formed, fire-resistant blocks disposed in end-to-end and abutting relationship throughout the length of and in complete circumscribing arrangement to said beam, the abutting edges of the blocks being in shiplapped relationship, each block including a pair of opposed, U-shaped sections with the remote edges of opposed leg portions thereof in abutting relationship, the abutting edges of the leg portions of the sections being in shiplapped relationship; and means holding the sections against lateral displacement relative to the beam, said means comprising a pair of opposed, pre-formed keys interposed between the beam and the blocks and each directly engaging the beam and both sections of the blocks and holding the blocks against movement in one direction relative to the beam, each section having a pair of grooves therein receiving portions of the keys, whereby the keys hold the sections against separation.

2,664,740
PANEL WALL JOINT
Ralph H. Cochrane, Sacramento, Calif.
Application May 7, 1951, Serial No. 224,950
2 Claims. (Cl. 72—107)

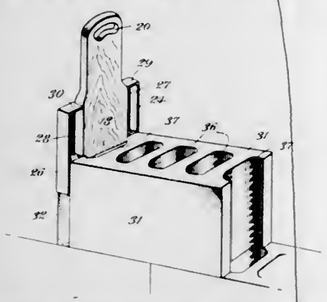


1. In a building structure, a pair of prefabricated reinforced concrete panels disposed in substantially coplanar relationship, the adjacent edges of each panel having border channels thereon with the flanges of the border channels directed toward the interior of the body of the respective panel, a post formed of a pair of back-to-back channel elements positioned between the adjacent edges of a pair of said panels, fastening means connecting the webs of said channel elements together in detachable relationship, the width of said post being greater than that of the border channel and the flanges of said post being spaced outwardly of the face of said panels and the flanges of said border channels, said fastening means being positioned in the space between the flanges of the posts and border channels, said border channels being secured to the webs of said post on opposite sides thereof, channel-shaped closure columns disposed about the portion of said post which project outwardly of the face of said panels, and connecting means securing said closure columns to said panels.

2,664,741
MORTAR FORM
Roderick Nicholson, Huntington, N. Y.
Application April 20, 1948, Serial No. 22,059
3 Claims. (Cl. 72—128)

2. In a building form for positioning mortar on predetermined areas of a building block, the

combination of a body rectangular in cross-section and rectangular in plan and having one of its flat larger surfaces free for contacting an area of a building block, a handle at one end of said body, and a plate connected to the surface of said body opposite said free surface for a partial length thereof, said plate extending laterally from said body on each side thereof, said plate having upstanding flanges at its free edges ad-



jacent said handle and on its side edges thereof for heights substantially equal to the thickness of said body thereby forming channels along the sides of said body, whereby said channels when filled with mortar to the heights of said body and said flanges and placed flush against a surface of the building block and withdrawn therefrom in a direction parallel to the surface engaged leaves substantially uniform thickness of mortar on predetermined areas of said block.

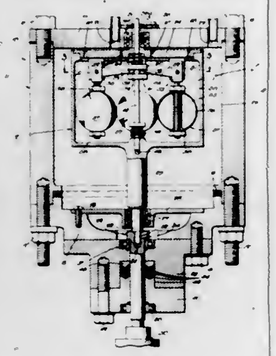
2,664,742

INSTRUMENT FOR SENSING THE DENSITIES OF FLUIDS

Dennison H. MacDonald, East Haven, Conn., assignor to Revere Corporation of America, Wallingford, Conn., a corporation of Connecticut

Application January 4, 1951, Serial No. 204,341

21 Claims. (Cl. 73—32)



1. A density-sensing instrument, comprising a rotary container adapted to hold fluid; driving-means for said container; a rigid body in said container movable toward and away from the rotary axis thereof and having a density approximating those of fluids that may be density-tested in said container; and a device including resiliently deformable means for holding said body in a normal position within said container while the latter is not driven, and yieldingly resisting outward and inward movement of said body from said normal position in the spinning fluid-holding container, whereby the deformation of said means affords an indication of the density of fluid in said container.

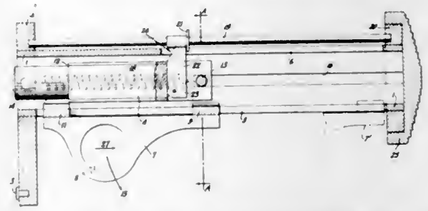
2,664,743

APPARATUS FOR TESTING THE SURFACE HARDNESS OF CONSTRUCTION MATERIALS

Ernst O. Schmidt, Basel, Switzerland, assignor to Arthur R. Anderson, Springdale, Conn.

Application May 29, 1951, Serial No. 228,808

4 Claims. (Cl. 73—79)



1. Apparatus for testing the surface hardness of construction materials comprising a frame, an element mounted on the frame adapted to be placed against a surface to be tested, a hammer movable longitudinally in said frame for creating impact against the surface to be tested, and a propelling resilient element between the frame and hammer to propel the hammer, movement of the hammer longitudinally in a horizontal plane being controlled entirely by said propelling resilient element and an indicator fixed to the frame to measure the intensity of rebound of the hammer after impact.

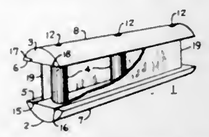
2,664,744

HOLDER FOR CORROSION TESTING COUPONS

Harrell L. Bilhartz and Howard E. Greenwell, Dallas, Tex., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 9, 1953, Serial No. 341,302

5 Claims. (Cl. 73—86)



1. A coupon holder adapted to be inserted into a section of tubing for exposing a coupon held thereby to the corrosive action of fluid flowing through said tubing comprising an elongated lower base member of electrically insulating material having its lower surface adapted to conform to the interior of said tubing and having a substantially flat upper surface, an elongated upper base member of electrically insulating material having its upper surface adapted to conform substantially to the interior surface of said tubing and having a substantially flat lower surface, spacer means of electrically insulating material mounted between said base members whereby to hold said base members in spaced relationship with the lower surface of said lower base member and the upper surface of said upper base member substantially in contact with the interior surface of said tubing and the upper surface of said lower

member and the lower surface of said upper member substantially parallel with each other, there being a groove formed in the upper surface of said lower member parallel with the longitudinal axis thereof and a corresponding longitudinal groove formed in the lower surface of said upper member, said second groove lying directly above and parallel with said first groove, whereby a rectangular metallic coupon may be supported with its opposite edges engaged one in each of said grooves.

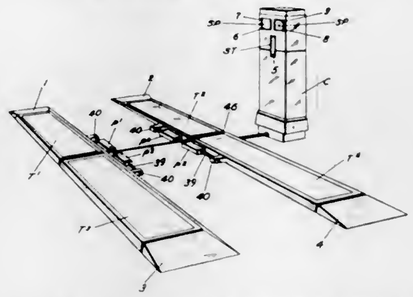
2,664,745

BRAKE TESTING APPARATUS

Marcellus S. Merrill and Lowell H. Erickson, Denver, Colo.; said Erickson assignor to said Merrill

Application October 16, 1947, Serial No. 780,172

10 Claims. (Cl. 73—122)



1. In a vehicle testing apparatus, tread plates upon which wheels of the vehicle are to be driven and stopped by braking, means for mounting the tread plates so that the braking action on each braked wheel will be transferred into a proportional displacement of each plate it engages, electrical means responsive to movement to produce a voltage change connected with each tread plate for producing a change in voltage proportional to the displacement of the tread plate, and means for indicating the percentage relationship change produced by each tread plate displacement bears to the total voltage which is produced by all the tread plate displacements, said indicating means comprising bridge circuits having said electrical means connected in certain of the arms thereof, known resistances in other arms of said bridge circuits, and self-balancing potentiometers for automatically balancing said bridge circuits.

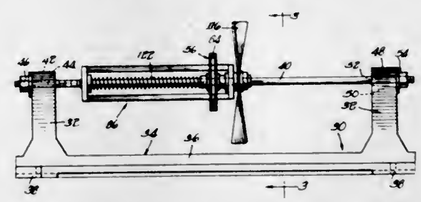
2,664,746

PROPELLER METER

Peter Jacusis, Chicago, Ill.

Application December 3, 1951, Serial No. 259,641

8 Claims. (Cl. 73—140)



1. A propeller thrust testing meter comprising a shaft, propeller mounting means, said mounting means being movable substantially axially of said shaft in response to propeller thrust reaction, resilient means normally biasing said mounting means to a given position, means for rotating said propeller mounting means, indicating means, said indicating means being continuously readable, and means for actuating said indicating means in accordance with the substantially axial movement of said propeller mounting means.

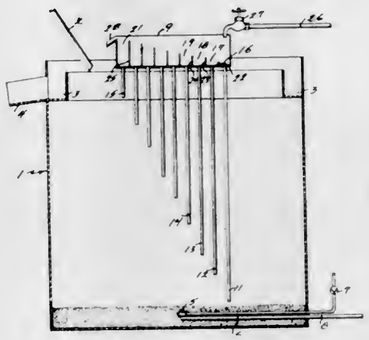
2,664,747

LIQUID-SOLIDS INTERFACE INDICATOR

Edward Jones Ellis, Bartow, Fla., assignor to The Davison Chemical Corporation, Baltimore, Md., a corporation of Maryland

Application August 8, 1949, Serial No. 109,123

6 Claims. (Cl. 73—290)



3. Apparatus for indicating the level of a liquid-solids interface in a vessel comprising an indicating box supported above the level of the liquid in the vessel, a series of tubes of successively decreasing length extending into the vessel and having their upper ends opening into the indicator box, partitions in the indicator box dividing it into cells into each of which one of the tubes opens, the partitions increasing in height successively from the cell into which the longest tube opens to the cell into which the shortest tube opens, and means to supply a pilot stream to the cell from which the longest tube extends, said pilot stream overflowing the partition separating a tube from the next shorter tube as the liquid-solids interface rises to indicate the level of the interface.

2,664,748

CALIBRATED LIQUID STORAGE GAUGE

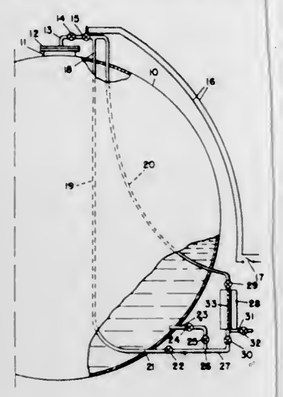
Harold A. Quist, Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Original application November 16, 1946, Serial No. 710,279. Divided and this application August 16, 1951, Serial No. 242,067

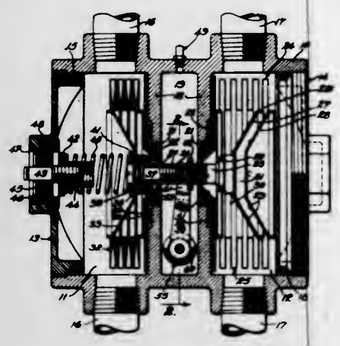
3 Claims. (Cl. 73—290)

1. Apparatus for measuring liquid contents in a sealed pressure vessel for the storage of volatile liquids having a vapor space above the liquid comprising a conduit system of two branches extending downwardly in the vessel passing through the walls thereof at the top and bottom, valve means connecting the upper part of the system to transmit the vapor pressure of said vessel thereto and isolate said pressure condition therein; valve means connecting the lower part of said system to admit and isolate liquid therein, thereby subjecting the admitted liquid to the established pressure condition; and a volumetric liquid

measuring container in said conduit system above the lower valve means calibrated to indicate liquid measures proportionate to the liquid contents of the tank.

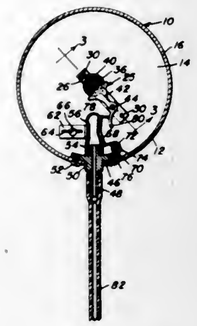


2,664,749
FLUID PRESSURE RESPONSIVE EQUIPMENT
Barton Jones, Los Angeles, Calif.
Application January 10, 1948, Serial No. 1,597
4 Claims. (Cl. 73—407)



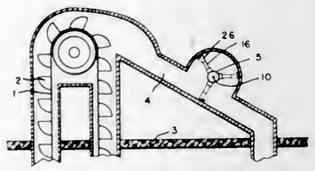
1. In fluid pressure responsive apparatus of the type comprising a housing containing a pair of diaphragms movable in correspondence one with the other and exposed at adjacent sides to a common sealed body of liquid and at outer sides to differential pressures; the improvement comprising a twistable torque tube fixed at one end to the housing and extending within the housing with said liquid received thereabout, seal means preventing passage of said liquid from the outside of said tube into the interior thereof, means in the housing contacted by said liquid and mounting the tube for said twisting movement, a connection in the housing in contact with said liquid for transmitting movement of the diaphragms to said torque tube and thereby effecting twisting movement of the torque tube in correspondence with the diaphragm movements, said connection being so constructed that the resistance to twisting of said torque tube is transmitted by the connection to the diaphragms to resist the diaphragm movements, and an elongated member attached to and extending axially within said torque tube and transmitting twisting movements thereof to the outside of the housing.

2,664,750
PRESSURE GAUGE
Joseph J. McCrink, West Orange, N. J.
Application December 26, 1950, Serial No. 202,686
6 Claims. (Cl. 73—409)



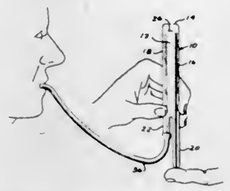
1. A pressure gauge comprising a casing, a diametrically expansible bulb disposed in said casing, means engaging one side of said bulb for constraining expansion of said bulb in one direction, a resilient finger attached to the casing and engaging the diametrically opposed side of said bulb, an indicator needle rotatably mounted in said casing for movement about an axis transverse the plane of movement of said finger, a pinion attached to said needle, a toothed sector rotatably mounted on said casing for rotation about an axis parallel to the axis of rotation of said needle, an arm extending from said sector plate, said finger slidably engaging said arm to pivot said sector in response to expansion of said bulb, said bulb constraining means being adjustably movable toward and away from said bulb.

2,664,751
GRAIN SAMPLER
Ernest A. Johnson, Duluth, Minn.
Application January 11, 1951, Serial No. 205,577
3 Claims. (Cl. 73—422)



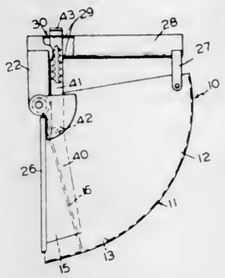
1. A device for taking a sample of granular material which is passing along a chute comprising: a major tube mounted over said chute with its longitudinal axis perpendicular to the longitudinal axis of the chute, means to rotate said tube, a plurality of pick-up tubes extending radially from said major tube and having an opening adjacent their outer ends facing the direction of rotation of said tube, said openings facing the direction from which said material is flowing, said pick-up tubes having a channel therein in communication with the interior of said major tube and being of a length to extend into material carried on said chute and pick up a sample therefrom, and a closure mounted in sliding relationship on each of said pick-up tubes over said opening therein, means biasing each of said closures to closed position over said opening in said pick-up tubes, and inclined wall means extending laterally from said closures for moving said closures away from said opening in said pick-up tubes by the force of the moving material against said inclined wall means as they travel in said granular material.

2,664,752
MULTIPLE PURPOSE HEMATOCRIT PIPETTE
Samuel G. Southwick, Springfield, Ill.
Application November 25, 1952, Serial No. 322,539
2 Claims. (Cl. 73—425.4)



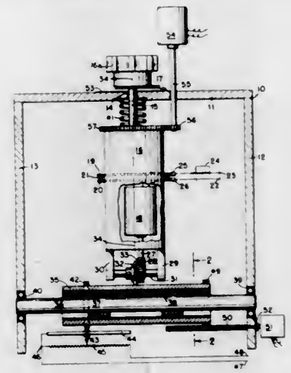
1. In a pipette, a solid, transparent body formed with side by side longitudinal extensions of different lengths at one of its ends, said body having a continuous bore substantially U-shaped with parallel end portions extending within and opening at the free ends of said extensions, the body having scale markings disposed longitudinally of the respective end portions.

2,664,753
VARIABLE CAPACITY MEASURING SCOOP
Harold W. Hein, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application April 15, 1950, Serial No. 156,132
6 Claims. (Cl. 73—429)



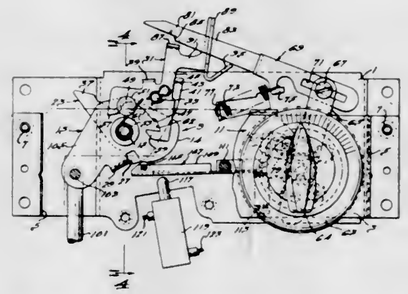
1. A scoop comprising a body having sector shaped ends connected by an arcuate bottom wall, a partition positioned between the sector shaped ends, said partition being connected to the body at one end for pivotal movement about an axis transverse with respect to the ends, said partition extending radially outwardly from the axis and having edge portions in contiguous relation to the bottom wall and the ends, means pivotally moving the partition to a plurality of selective positions thereby varying the material capacity of the scoop, including a spring engaging the partition and the body for continuously urging the partition to pivot in one direction, a manual control lever pivotally connected to the partition, the control lever being movable to pivot said partition against the action of said spring, and locking means between said control lever and said body for securing the partition in one of the selective positions.

2,664,754
MOVING TARGET GENERATING DEVICE
Forrest W. Brown, Darien, Conn., assignor to The Reflectone Corporation, a corporation of Connecticut
Application April 19, 1952, Serial No. 283,203
5 Claims. (Cl. 74—1)



1. A moving target generating device comprising a drive element circularly rotating at a speed proportional to the speed vector of the target, said drive element positionable about an orientation axis situated normal to the axis of its circular rotation, a cylindrical resolving element having a longitudinal axis substantially normal to said orientation axis mounted for rotation about and translation along said longitudinal axis, said drive element engaging said resolving element on said orientation axis and voltage divider means connected to said resolving element for indicating the mutually normal vector motions imparted upon said resolving element by said drive element.

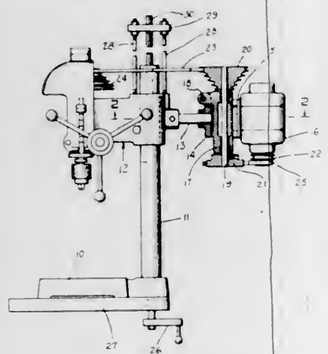
2,664,755
TIMER AND CONTROL MECHANISM
Kenneth M. Kiel, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application March 11, 1949, Serial No. 80,861
6 Claims. (Cl. 74—2)



1. In a control mechanism of the type described, the combination of a pivotal controlled member having a rounded surface, a controlling member pivoted about an axis spaced from that of the controlled member and having an inclined surface capable of frictional locking engagement with the rounded surface, said members being arranged so that when the surfaces

are engaged counterclockwise torque on the controlled member tends to overcome the frictional engagement between the members, an actuator for pivoting the controlled member in a clockwise direction to engage the surfaces and for pivoting the controlling member in a counterclockwise direction to disengage the surfaces, and resilient means for holding the actuator in a predetermined position when the surfaces are engaged.

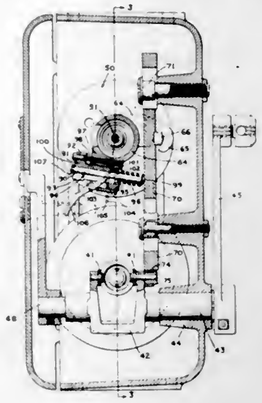
2,664,756
DRILL PRESS
William L. Fismer, Verona, N. J.
Application March 7, 1952, Serial No. 275,341
7 Claims. (Cl. 74—217)



1. In a drill press of the kind including a column, a spindle, spindle head movable on the column, a bracket shaft projecting from the latter and a bracket mounted on the shaft, the improvement which comprises: a vertical countershaft; a countershaft housing; a motor having a downwardly projecting vertical shaft; belt-connected, multiple step pulleys on the lower ends of the motor shaft and countershaft and on the upper ends of the countershaft and spindle; a horizontal pivot member on the said bracket about which the housing and motor are bodily movable as a unit, the axis of the pivot member lying at right angles to the axis of the bracket shaft on the column side of the housing and motor.

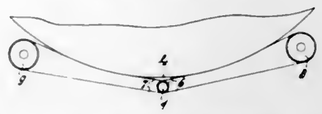
2,664,757
AUTOMATIC BELT TENSION TAKE-UP
Louis Eaton Shaw, Newark, N. J.
Application July 27, 1950, Serial No. 176,093
2 Claims. (Cl. 74—230.17)

1. In a variable speed drive of the V-belt type, the combination, of an expansible driving sheave, an expansible driven sheave, a speed change device therebetween including a counter shaft and expansible speed change driving and driven sheaves carried by said countershaft, belts connecting said driving and driven sheaves to said speed change sheaves, means for shifting said expansible driving and driven sheaves to vary the speed ratio therebetween, said speed change sheaves being automatically adjusted in conformity to the shifted adjustment of the driving and driven sheaves, means operated by said shifting means for varying the distance between the axes of the driving and driven sheaves and the axis of the speed change sheaves in predetermined ratio to the speed change shifting of the driving and driven sheaves, a bracket connecting said countershaft to said distance varying means to permit limited movement of the countershaft relative to the distance varying means, said bracket provided with an opening therethrough, a carrying sleeve adjustably mounted in said opening, a tensioning bar slidably carried by said sleeve and engaging said distance varying means, a spring carried by said bar and engaging said



sleeve, said sleeve having a longitudinally extending slot therein, ratchet teeth formed upon said tensioning bar and facing said slot, a pawl pivotally carried by said bracket and extending through said slot and engaging said ratchet teeth, said pawl having an operating handle projecting outwardly beyond said slot.

2,664,758
MECHANICAL DRIVE
Hubertus Jan Smits, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application November 17, 1949, Serial No. 127,907
Claims priority, application Netherlands November 24, 1948
3 Claims. (Cl. 74—221)

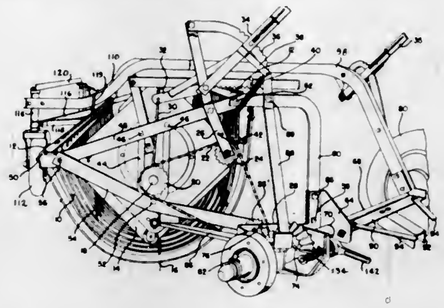


1. A turntable driving mechanism comprising a turntable, at least two endless belts and three guide pulleys, one of the said pulleys being a driving pulley, said belts being so arranged one on each side of the driving pulley at the limits of the said belts that both of the said belts engage the circumference of the said turntable to thereby drive said turntable.

2,664,759
CLUTCH ARRANGEMENT FOR SIDE DELIVERY RAKES
Wesley A. Harper, Eugene S. Minton, and Harold Orelup, Bellevue, Ohio, assignors to National Farm Machinery Cooperative, Inc., Bellevue, Ohio, a corporation of Ohio
Application June 29, 1950, Serial No. 171,091
3 Claims. (Cl. 74—405)

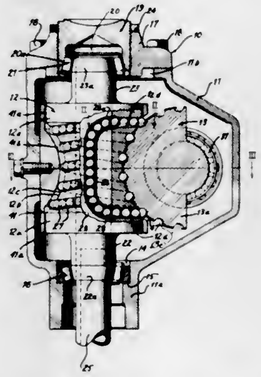
1. In a rake of the type described; a tubular axle structure comprising a housing having a gear box portion integral therewith adjacent one

end, an axle traversing said housing and gear box, a first bevel gear in the gear box on the axle, a second bevel gear in the box meshing with the first gear and having a shaft extending through one wall of the gear box to mount a sprocket, a one-way clutch member slidable on the axle for selectively connecting the first gear with the axle, a shifter arm on the clutch mem-



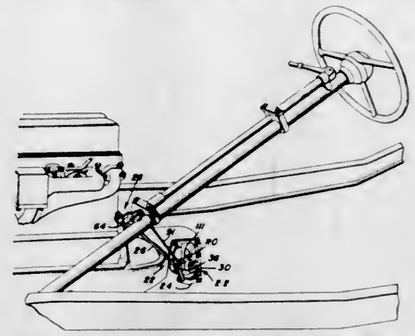
ber, a rod traversing the arm parallel to the axle, a lever fixed on the rod outside the gear box having a cam surface engaging the gear box so shifting of the lever about the axis of the rod will reciprocate said rod, a first spring bearing on said arm to urge it toward clutch disengaged position, and a second spring bearing between the rod and the arm to urge the arm toward clutch engaged position.

2,664,760
ANTIFRICTION GEAR ASSEMBLY
James H. Booth, Venice Township, Shiawassee County, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 20, 1951, Serial No. 211,948
4 Claims. (Cl. 74—458)



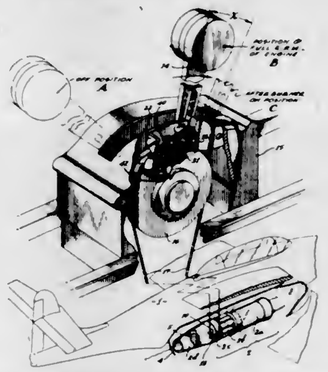
1. A ball gear assembly which comprises a worm member having an hourglass-shaped section with a multi-turn helical groove therearound and an axial passage therein, arcuate ended tube means in said passage connecting opposite ends of said helical groove, an arcuate gear member confronting said hourglass section and having transversely extending grooves adapted to register with a plurality of turns of said helical groove, and a column of ball bearings in said helical groove arranged to advance across said transverse grooves when the worm member is rotated for driving the gear member.

2,664,761
GEARSHIFT CONVERSION APPARATUS
Merle E. Martin, Cresco, Iowa
Application March 12, 1951, Serial No. 215,155
7 Claims. (Cl. 74—473)



1. A gear shift conversion apparatus for vehicles employing vacuumatic shifting means having a rock shaft, a second shaft and a first lever means connected to the second shaft, the apparatus comprising a second lever means connected to the shift shaft of the vehicle, an angulated rod having one end pivotally connected to said second lever means, and an arcuate link interconnecting the other end of said rod and said first lever means.

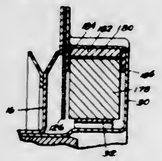
2,664,762
JET ENGINE THROTTLE CONTROL
Willis B. Morris, Hawthorne, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application August 3, 1951, Serial No. 240,175
2 Claims. (Cl. 74—565)



1. A pilot's throttle assembly for controlling a jet engine propelling an airplane, when said jet engine is equipped with an afterburner which comprises a throttle shaft on said engine rotatable from minimum to maximum R. P. M. positions and beyond maximum R. P. M. position to admit fuel to said afterburner, a throttle arm shaft, a throttle arm mounted on said shaft and movable over a predetermined arc by the pilot of said airplane, means connecting said arm shaft to rotate said throttle shaft, said arm arc including a minimum R. P. M. position adjacent one end thereof, an afterburner fuel admission position adjacent the other end thereof, and a maximum R. P. M. position intermediate said minimum R. P. M. position and said afterburner fuel admission position, said arm being free to move be-

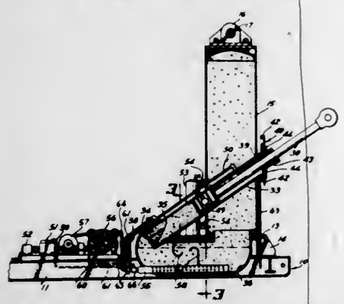
tween said maximum and minimum R. P. M. positions at the will of the pilot, a contact block slidably mounted on said arm, a spring urging said block to a lower position, a lever having one end thereof engageable with said contact block when said block is at said lower position and at said maximum R. P. M. position to move said lever as said throttle arm is progressed over a substantial distance toward said afterburner fuel admission position, governor means connected to be actuated by movement of said lever, said block disengaging from said lever as said afterburner fuel admission position is approached, means for returning said lever to its original position after block disengagement, and a camming surface on the end of said lever originally engaged by said block, over which said block rides when said throttle arm is returned to maximum R. P. M. position.

2,664,763
VIBRATION DAMPER
Gilles François Saraxin, Paris, France
Application March 29, 1950, Serial No. 152,686
13 Claims. (Cl. 74—574)



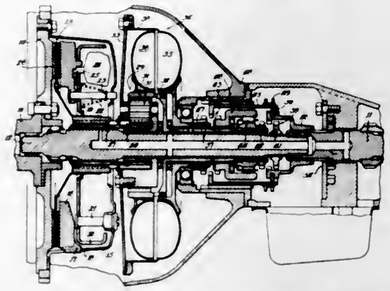
1. A vibration damper for a rotating shaft comprising a member secured to the shaft for rotation therewith, a plurality of weights, said member having a plurality of guide sections evenly distributed around the shaft axis and each including at least one arcuate track having its concavity directed toward the shaft axis, a corresponding number of weights rollingly guided on said tracks, and a floating spring member engaging the sides of said weights nearest the shaft axis.

2,664,764
FOAM PRESSURE BALANCED WALKING BEAM TYPE OIL WELL PUMPING JACK
Luther A. Blackburn, Eagle Rock, Calif.
Application September 15, 1951, Serial No. 246,849
10 Claims. (Cl. 74—589)



1. In a foam counterbalanced oil well pumping jack for actuating a sucker rod in a well tubing string, a Sampson post comprising a foam pressure tank, a walking beam pivoted intermediate its ends upon said Sampson post, means carried by said beam to connect the forward end thereof to the sucker rod string, a cylinder disposed with its axis in the vertical plane of said walking beam, extending obliquely through and sealed to said tank, and having its lower end in open communication with said tank, a piston in said cylinder, a piston rod pivoted to said piston and extending from the upper end of said cylinder, an arm depending from the forward end of said walking beam and pivoted to said piston rod, power means connected to the rearward end of said walking beam for pivotally reciprocating the latter, means for producing a foam lubricant within said tank, means for maintaining said lubricant under pressure sufficient to counterbalance a weight in excess of the weight of the sucker rod string and one half the weight of the fluid in the tubing string during the initial stages of the upstroke of said rod string and piston.

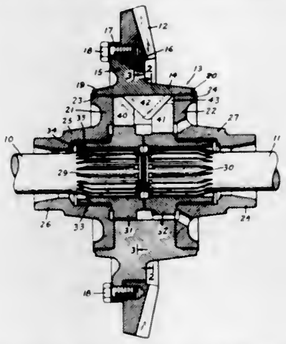
2,664,765
TRANSMISSION AND CONTROL MECHANISM THEREFOR
Donald W. Kelbel, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application June 9, 1944, Serial No. 539,443
36 Claims. (Cl. 74—645)



1. In a transmission, the combination of a drive shaft, a driven shaft, a planetary gear set comprising a sun gear, a ring gear, a planet gear in mesh with said sun and ring gears, and a planet gear carrier, a clutch for connecting said drive shaft with said sun gear, a clutch for alternatively connecting said driven shaft with said planet gear carrier or with said ring gear, a one-way brake for said ring gear, a brake for said planet gear carrier, said one-way brake completing a forward drive in a low-speed ratio through said gear set from said drive shaft to said driven shaft when said second named clutch is operative to connect said planet gear carrier and said driven shaft, and a fluid coupling having a driving element connected with said planet gear carrier and having a driven element connected with said ring gear for substantially locking up the gear set and providing a high speed ratio in forward drive between said shafts when said second named clutch is operative to connect said planet gear carrier and said driven shaft, said brake for said planet gear carrier being effective to provide a reverse drive from said drive shaft to said driven shaft when said second named clutch is operative to connect said ring gear with said driven shaft.

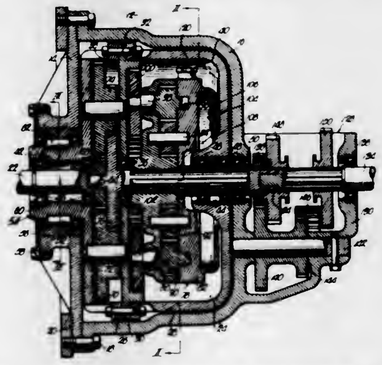
2,664,766
WEDGE AND SHUTTLE TYPE POWER DIVIDER
Alois H. Schmal, Westfield, N. J., assignor to Mack Manufacturing Corporation, New York, N. Y., a corporation of Delaware
Application October 6, 1951, Serial No. 250,158
10 Claims. (Cl. 74—650)

1. A power divider comprising a housing to be rotated by a source of power, a pair of cam members rotatably mounted in said housing coaxial with the axis of rotation of said housing, output shafts connected to said cams and rotatable therewith, said cam members having radially extending lobes and interposed valleys on their peripheries, one of said cam members having one



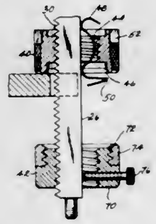
more lobe than the other, wedge elements engaging the peripheries of said cam members and radially movable relative to said housing, and shuttle elements engaging the outer ends of said wedge elements and movable in said housing parallel with its axis.

2,664,767
AUTOMATIC POWER TRANSMISSION
Theodore F. Kuhn, Kansas City, Kans.
Application August 21, 1950, Serial No. 180,578
6 Claims. (Cl. 74—752)



1. In a power transmission having a hollow housing, a driven shaft extending into the housing and rotatably carried thereby, a hollow case rotatably mounted on the driven shaft within the housing, a drive shaft extending into the case and rotatably carried thereby, means interposed between the housing and the case for restraining the latter from rotation in one direction, and a train of differential gearing in the case including a sun gear on the drive shaft and on the driven shaft respectively and a plurality of planet gears for each sun gear respectively and rotatably carried by the case, the planet gears for one sun gear each being rigidly joined to a corresponding planet gear of the other sun gear, the improvement of which comprises a hollow body rigidly secured to the driven shaft for rotation therewith within said case; and means carried by the body for rotation therewith and operably connected to said case for varying the speed of rotation of the case in the opposite direction relative to the body in response to the speed of rotation of the latter, whereby to establish an automatically and infinitely variable connection between the shafts responsive solely and directly to the speed of rotation of the driven shaft.

2,664,768
MOTION LIMITING DEVICE
Aloysius R. Clyne, New Dorp, N. Y.
Application June 1, 1950, Serial No. 165,569
1 Claim. (Cl. 77—34.5)

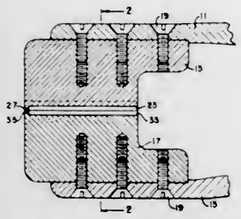


A setting device adapted to be positioned at any location on a threaded rod comprising an annular internally threaded ring encircling said rod, the internal diameter of said ring being greater than the external diameter of said rod, and resilient means between a portion of the inner surface of the ring and said rod for forcing said portion of the ring away from said rod to pull the opposite portion of the ring into cooperative threaded engagement with said rod, the resilient means comprising a strip of spring metal disposed longitudinally of said rod between the outer surface of the rod and the threads on said portion of the inner surface of the ring, and said spring strip being curved so as normally to engage in compression both the rod and threads on the ring, said ring having an annular internal beveled portion and said spring having a bent end portion adapted, when the spring is pressed longitudinally of said rod, to wedge between the outer surface of the rod and the beveled portion of said ring to lock the ring tightly to the rod, the arrangement being such that pressure applied to the outside of said ring portion will release said threaded engagement so that the ring can be slid along the rod until the pressure is released, whereupon the ring will be held, by the re-engagement of the threads, at approximately the position desired, after which, rotation of the ring will cause it to advance or recede slightly to the exact position desired.

2,664,769
WIRE STRIPPER
Elwood Rennie, Red Bank, and William W. Hyde, deceased, late of Eatontown, N. J., by James H. Hyde, executor, Mayetta, Kans., assignors to the United States of America as represented by the Secretary of the Army
Application September 12, 1950, Serial No. 184,510
1 Claim. (Cl. 81—9.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)

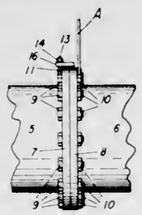
A stripper for removing the insulation from a covered wire conductor, comprising a pair of mutually opposing blocks, means for supporting said blocks, and means for securing said blocks to said supporting means, the sides of first of said blocks being chamfered to form a substantially triangular wedge, the second of said

blocks recessed to accommodate the said triangular wedge of said first block, said first block having a longitudinally disposed groove in the vertex of said triangular wedge and terminating in a depending lip portion having an arcuate bore smaller than that of said groove, said second block having a groove in the base of said recessed



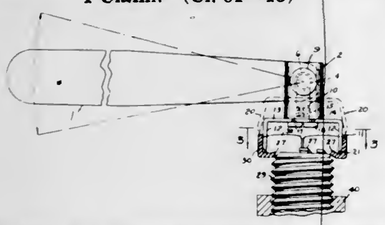
portion and terminating in a depending lip portion having an arcuate bore smaller than that of said last mentioned groove, whereby when said blocks are in engagement, the grooves in said first and second blocks form a circular channel of a diameter greater than that of the circular groove formed by the opposing lip portions.

2,664,770
HOLDING DEVICE FOR FLANGE BOLTS
Walter R. Tomchek, San Francisco, Calif.
Application February 2, 1953, Serial No. 334,530
1 Claim. (Cl. 81—13)



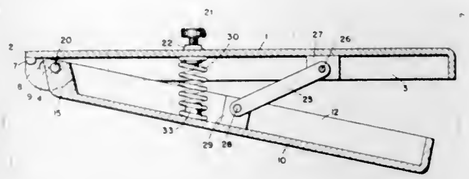
In a flange bolt-holding device, a ring-shaped member having its inner surface serrated, a threaded extension formed on said ring, a bearing pad slidably positioned on said extension and having its bearing surface at a right angle to the plane of the ring, and an adjusting nut threadedly engaging said extension whereby the bearing pad will abut the periphery of a flange when the ring-shaped member is engaged over the head of a flange bolt.

2,664,771
NUT HOLDER WITH RESILIENT LEGS
Howard R. Elliott, Long Beach, Calif.
Application June 28, 1949, Serial No. 101,729
1 Claim. (Cl. 81—13)



A holder for a peripherally flanged nut comprising, an elongated handle, an inverted generally U-shaped strip of resilient material providing a pair of substantially opposed legs of the same length connected at one of their ends by a central section of said strip, said legs extending slightly divergently to one side of said section and having their outer ends bevelled on their oppositely outwardly facing sides to facilitate insertion of said legs to a position between and in yieldable engagement with two of the opposed flanges on said nut at two opposite sides of said nut, means securing said strip to one end of said handle including a pivot extending through the center of said section supporting said strip for revolution of said legs transversely of their lengths.

2,664,772
CRIMPING TOOL
Ralph G. Arey, Brockton, Mass., assignor to Ward Machine Company, Inc., Brockton, Mass., a corporation of Massachusetts
Application October 21, 1949, Serial No. 122,801
1 Claim. (Cl. 81—15)

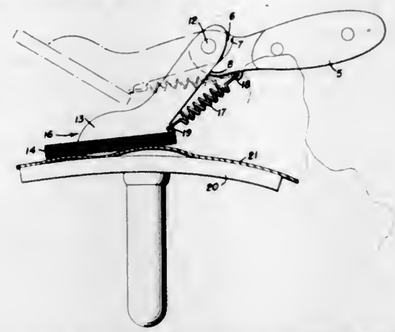


A crimping tool of the kind described comprising upper and lower crossheads, each having cooperating teeth extending toward each other, the upper crosshead being of greater length and having a handle extending at right angles thereto formed as a channel with depending sides, the lower crosshead having a handle extending at right angles parallel with the upper handle and adapted to nest therein, the depending sides of the upper handle portion adjacent the crosshead each having slanting cam slots therein, pivot pins extending from the lower crosshead into said slanting cam slots constituting a pivotal connection between the upper and lower crossheads, a link between the handles and pivoted to each handle in an inclined position, movement of the handles together and the action of said link forcing the pivots to traverse the cam paths and press the cooperating teeth in the crossheads into interlocking relation, the length of said cam slot and the relative size of said interlocking teeth preventing actual contact of the teeth with each other, in combination with the spring normally acting to separate the handles and move the crosshead from operative to inoperative position to the limit afforded by said cam slots.

2,664,773
PIVOTED METAL-WORKING HAMMER
Farrell O. Cain, Geneva, Ala., assignor of one-half to Hardy O. Cain, Geneva, Ala.
Application December 17, 1951, Serial No. 262,019
1 Claim. (Cl. 81—15)

A metal working tool comprising, an elongated handle, an arm comprising furcations on one end straddling an end portion of the handle and pivotally connected thereto, a serrated striking block of considerable area rigidly fixed on the free end of the arm, and upper and lower stops on the sides of the handle engageable with the furcations for positively limiting swinging move-

ment of the arm in both directions, said lower stops extending forwardly beneath the pivotal



connection for arresting and supporting said arm in a forwardly inclined position on said handle.

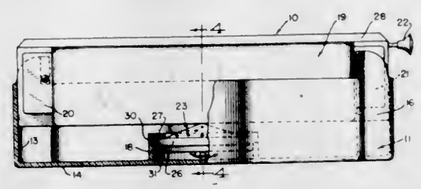
2,664,774
OPENING MEANS FOR LOCKING WRENCH TYPE PLIERS
Walter E. Harvie, Lynwood, Calif.
Application February 7, 1952, Serial No. 270,315
1 Claim. (Cl. 81—84)



In a wrench type locking pliers having a fixed handle and jaw, a pivoted jaw, an actuating handle pivoted to the pivoted jaw, a toggle link between the handles and pivoted at one end to the actuating handle and having a fulcrum bearing at its other end against an unthreaded end portion of an adjustment screw threadedly connected with the fixed handle for adjustment longitudinally thereof; means for effecting separation of the handles from closed relation, comprising an elongate lever located between said screw and the actuating handle, a substantially U-shaped yoke member having a circular closed end in which the said unthreaded end portion of the screw is positioned and is free to rotate without turning the yoke member, the yoke member including two spaced arms extending toward the actuating handle, said lever being positioned between said arms, a pivot coupling between the arms and lever whereby the lever may turn on an axis extending transversely of itself and the handles, said lever having one end directed toward and obliquely of the handles toward the underside of the actuating handle and adapted to have engagement along one side with and limited in its movement by the toggle link, the lever having its other end extended rearwardly beyond the rear end of the actuating handle, and laterally projecting wings carried by said arms and having sliding bearing along adjacent side edge portions of the fixed handle.

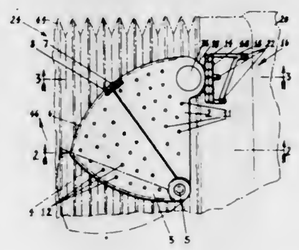
2,664,775
HARMONICA APPARATUS
Edward A. Zielinski, Berwyn, Ill., assignor of one-half to Joseph S. Kishel, Brookfield, Ill.
Application July 25, 1951, Serial No. 238,461
3 Claims. (Cl. 84—1.04)

1. A holder unit for an harmonica and amplifier therefor comprising an elongated and generally rectangular - shaped casing including spaced generally parallel side walls and spaced generally parallel end walls and a bottom wall, said casing being open at the top for the reception of said harmonica therein, guide bosses formed at said end walls to open toward one another, each of said bosses defining an upwardly opening recess of a width and configuration to



slidably receive and frictionally hold the ends of said harmonica to releasably position the same in said casing, and means arranged within said casing and between the bottom wall of the casing and the bottom of said harmonica for mounting an amplifier microphone pickup, said last-named means including an upstanding annular rib formed integral at the bottom of said casing.

2,664,776
ACCORDION SHOULDER PLATE
Walter Kopa, New York, N. Y.
Application October 1, 1952, Serial No. 312,489
5 Claims. (Cl. 84—376)



1. A device of the character described comprising a substantially triangular first plate, a second plate tiltably secured to a first corner portion of said first plate being adapted for resting together with said first plate against a shoulder and chest portion of an accordion player, means for angular adjustment of said plate being attached to a second corner portion of said first plate, and a hinge member secured to said means for angular adjustment being mounted on the back of an accordion keyboard.

2,664,777
ACCORDION KNEE SUPPORT
Walter Kopa, New York, N. Y.
Application December 11, 1952, Serial No. 325,250
5 Claims. (Cl. 84—376)

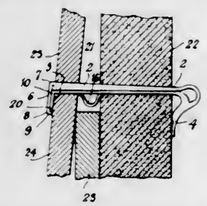
1. An accordion knee support comprising an arcuated member adapted to encompass a portion of a person's thigh near the knee having an elevated flat portion provided with a perforation, an arm member adapted to have one of its ends secured to the keyboard of an accordion being adjustably attached to said flat

portion, and means for extending said arm member at various angular positions from said flat



portion being interposed between the latter and the arm member.

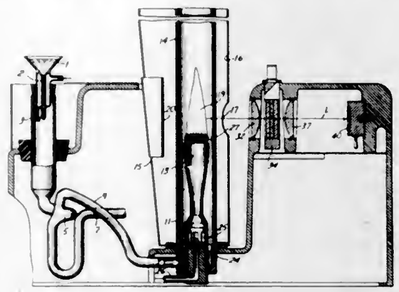
2,664,778
SELF-CLENCHING NAIL
Emanuel Gisondi, New York, N. Y.
Application July 9, 1951, Serial No. 235,729
4 Claims. (Cl. 85—11)



1. A self-clenching nail having a shank composed of a pair of overlying legs, one leg being shorter than the other, and each leg being provided at one end with a head, the longer leg having a pointed end, the legs being integrally connected together adjacent to said pointed end, the legs being also connected together adjacent to the head of the shorter leg, the latter connection being in the form of a strip defined by a pair of longitudinally extending slits, one of said slits extending downwardly from the head of the shorter leg, the second slit having its upper end terminating adjacent to the head on the shorter leg, said slit having its lower end terminating below the lower end of the first slit and adjacent to the pointed end of the longer leg, one end of the strip being connected to the shorter leg at a greater distance from the head end of the nail than the distance between the connection of the opposite end of said strip to the longer leg and the head on said longer leg, said strip constituting a buckling element to form a locking member when the longer leg is driven for its full length through material after the shorter leg has completed its driving movement therethrough.

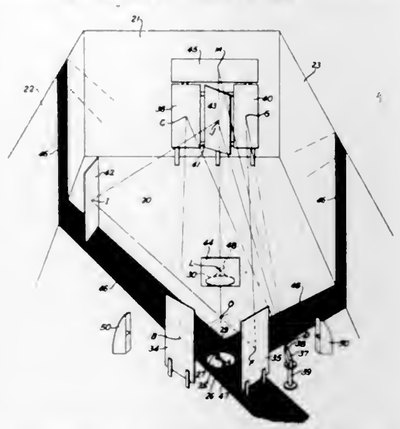
2,664,779
FLAME ANALYZER AND FLAME SOURCE THEREFOR
John U. White, Darien, Conn.
Application June 13, 1950, Serial No. 167,791
7 Claims. (Cl. 88—14)

1. In a flame analyzer in which a sample to be analyzed is atomized and supplied to a flame, and in which the intensity of the radiation from the flame at a selected wavelength is measured by a light sensitive detection system, the combination of a burner, a chimney surrounding at least a part of the flame of said burner, said chimney permitting the transmission of radiation from said flame to said detection system, a member abutting the burner and the chimney, said chimney being closed at one end by said member and open at the other end to permit the exit of the flame gases, a conduit in communication with



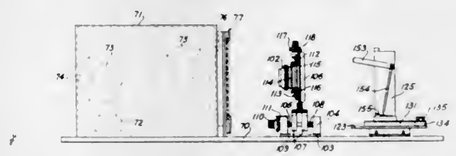
said burner for supplying a combustible gas thereto, a second conduit in communication with the burner and the space within the chimney surrounding the flame for supplying purified combustion supporting gas containing atomized sample to said burner and said space, whereby the atmosphere and contaminants therein are excluded from the flame.

2,664,780
METHOD OF PHOTOGRAPHICALLY CORRECTING THE PHOTOGRAPHIC IMAGES OF OBJECTS
Fred Waller, Huntington Station, N. Y., assignor, by mesne assignments, to The Henry Booth Methods Corporation, New York, N. Y., a corporation of Delaware
Application February 4, 1948, Serial No. 6,217
10 Claims. (Cl. 88—24)



1. In the method of tailoring in which the subject for whom a garment is to be made is photographed and the photographs are used for taking measurements for the construction of the garment; the improvement which comprises arranging at least two pairs of mirrors with respect to a camera and to the subject to be photographed so that images of at least two aspects of the subject, as viewed from vertical and mutually perpendicular planes intersecting said subjects, will be twice reflected each along respective bent optical paths of equal length to said camera, photographing simultaneously said images with said camera to obtain photographic images of said reflected aspects at the same scale with respect to said vertical planes, correcting the photographic images of said aspects of the subject with respect to said vertical and mutually perpendicular planes by measuring in the plane of the image of one aspect about the point of intersection of said vertical planes and the supporting plane for said object the angular displacement of the vertical center line of said one aspect from the other of said vertical planes, displacing angularly a plane light-sensitive material from a normal position about a horizontal line corresponding to said supporting plane to the same extent and in the same direction as the measured angular displacement between the image of said one aspect and the other vertical plane to effectively position the image of said other aspect in its respective vertical plane, and printing the images by projection onto said light-sensitive material while the light-sensitive material is so displaced, to produce the photographs from which the measurements are taken.

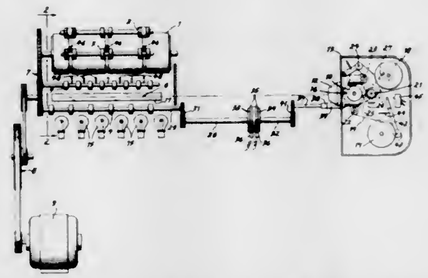
2,664,781
PHOTOGRAPHIC APPARATUS FOR CORRECTING NEGATIVES DURING PRINTING THEREOF
Fred Waller, Huntington Station, N. Y., assignor, by mesne assignments, to The Henry Booth Methods Corporation, New York, N. Y., a corporation of Delaware
Original application February 4, 1948, Serial No. 6,217. Divided and this application September 30, 1949, Serial No. 118,928
3 Claims. (Cl. 88—24)



1. In an apparatus for photographic printing having an optical axis and a copy plane for receiving a plurality of projected images, the combination comprising a holder for receiving a light-sensitive material and for supporting said material in said copy plane and provided with a mask guideway, a support member mounted for rotation about a vertical axis, a slidable connection between said holder and said support member for permitting movement of said holder to center any one of said images with respect to said vertical axis, and a mask for insertion into said guideway, provided with an opening for receiving one of said images, and having a portion preventing complete insertion of said mask into said guideway until said holder has been moved along said slidable connection to center said mask opening with respect to said vertical axis.

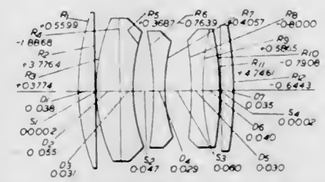
2,664,782
CONTROL FOR PHOTOGRAPHIC COPYING APPARATUS
Frank L. Weninger, Chicago, Ill., assignor to Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application September 9, 1950, Serial No. 184,079
9 Claims. (Cl. 88—24)

1. In a photographic apparatus, the combination of a camera including sensitized strip feeding means, sheet feeding means, an electromagnetic clutch for driving said strip feeding means in synchronism with said sheet feeding means, a switch connected in controlling relation with said clutch and under the control of sheets fed by said sheet feeding means, an electromagnetic relay comprising a relay coil and a switch under the control of said relay coil and connected in controlling relation with said clutch in shunt relation with said sheet controlled switch, an interval



timer, means under the control of said timer for maintaining said relay coil in clutch engaging condition during the timing interval of said timer and terminating said condition at the end of said timing interval, means for concomitantly placing said relay coil in said condition and initiating the timing cycle of said timer, and a switch connected in controlling relation with said clutch in shunt relation with said sheet controlled and relay switches.

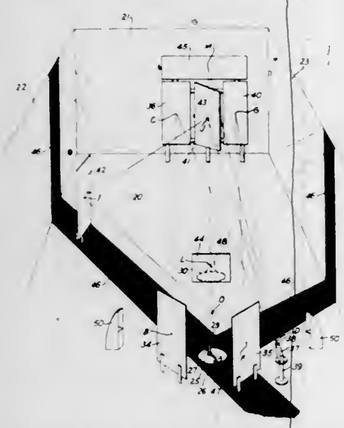
2,664,783
FIVE COMPONENT OPTICAL OBJECTIVE WITH THE FRONT THREE COMPONENTS FORMING A DIVERGENT COMBINATION
Gordon Henry Cook, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a British company
Application July 15, 1952, Serial No. 298,977
Claims priority, application Great Britain April 21, 1952
20 Claims. (Cl. 88—57)



1. An optical objective for photographic or other purposes, corrected (for a substantial spectrum range including at least a portion of the visible spectrum) for spherical and chromatic aberrations, coma, astigmatism, field curvature and distortion, and comprising five components, of which the first and fifth are simple and convergent and the third is simple and divergent, whilst the second and fourth are convergent meniscus doublet components having their air-exposed surfaces concave inwards and their internal contact surfaces collective and convex inwards, the equivalent focal length of the divergent combination comprising the front three components being numerically less than 4 F and greater than F, whilst the radius of curvature of the front surface of the fourth component lies between .5 F and such equivalent focal length

and also lies between one quarter and three quarters of the distance of such surface from the virtual image of an infinitely distant object formed by the combination of the front three components, where F is the equivalent focal length of the objective.

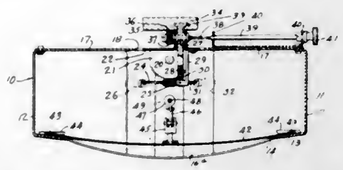
2,664,784
APPARATUS FOR MEASURING OBJECTS BY PHOTOGRAPHY
Fred Waller, Huntington Station, N. Y., assignor, by mesne assignments, to The Henry Booth Methods Corporation, New York, N. Y., a corporation of Delaware
Original application February 4, 1948, Serial No. 6,217. Divided and this application September 30, 1949, Serial No. 118,927
10 Claims. (Cl. 88—74)



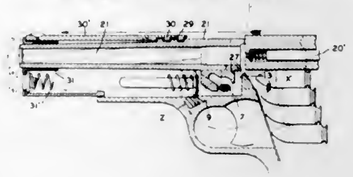
1. An apparatus for measuring a plurality of different aspects of a subject by photography from a camera point comprising a pair of members of known dimensions aligned in fixed vertically spaced and parallel relation, said members having indicia marks arranged in quadrature thereon for defining two mutually perpendicular planes intersecting along a vertical line substantially coinciding with the vertical center line of said subject, and within which planes measurements of the subject are to be made, and a plurality of sets of plane mirrors for reflecting and directing a plurality of images of said subject and of said members within said planes to said camera point at precisely the same scale, each set comprising at least a pair of mirrors arranged with respect to said subject and members and to one of said planes for reflecting and directing only the aspect of said subject and members in said one plane to said camera point.

2,664,785
REARVIEW MIRROR
Frederick L. O. Roehrig, Yucaipa, Calif.
Application February 12, 1951, Serial No. 210,571
7 Claims. (Cl. 88—98)

1. A rear view mirror comprising, in combination, a shell including a front wall and a back wall, the front wall having a frame opening, a mirror of resilient material mounted in said frame opening, means slidably coupling the mirror adjacent to opposite edges with the shell whereby said edges may move toward and away from each other upon transverse bending of the mirror between said edges, means connected with said back wall for turning the shell in each of two perpendicularly related planes, and manually operable means within the shell and coupled with the rear wall of the mirror for selectively applying thrust or pull thereto to effect the said bending thereof.



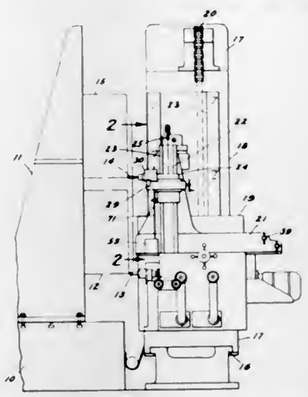
2,664,786
SLIDE AND BARREL SECURING KEY FOR AUTOMATIC PISTOLS
Bonifacio Guisasola, Eibar, Spain
Application August 26, 1947, Serial No. 770,725
1 Claim. (Cl. 89—163)



In an automatic pistol having a barrel and slide axially movable on a frame for actuation of a reloading mechanism by recoil thrust, the improvement of a combined recoil guide cam and key to releasably secure said barrel and said slide to said frame comprising a lug on the lower and rearmost end of said barrel, a rearwardly sloping cam slot in said lug having parallel sides for its upper end and an axially aligned cam face toward its rear end with a key engaging stop portion of said lug therebehind, a key in said cam slot operable to guide said barrel and said slide rearwardly relative to said frame, and handle means on said key for rotating said key in said frame from barrel-securing position in engagement with said axially aligned cam face and said stop portion of said lug to barrel-release position out of engagement with said cam face and said stop portion whereby said barrel and said slide may be moved axially forward on said frame.

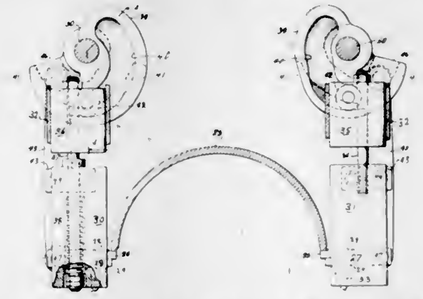
2,664,787
THERMAL COMPENSATOR
Alfred G. Plimmer, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application February 16, 1952, Serial No. 271,898
4 Claims. (Cl. 90—13)

1. An expansion compensator for machine tools including a pair of relatively adjustable parts comprising a support and a slide movable on the support, means adjustably connecting the slide and support including a nut carried by the slide and a second nut carried by the support, a connecting member having a first threaded portion for engagement with the nut on the slide and a second threaded portion for engagement with the nut on the support, a first adjusting mechanism for effecting relative rotary movement of the threaded portion of said member and the slide nut, a second adjusting mechanism for effecting relative rotary movement of the other threaded portion of the member and the support nut, and a swivel connection between the respective



threaded portions to permit their independent relative rotary movement.

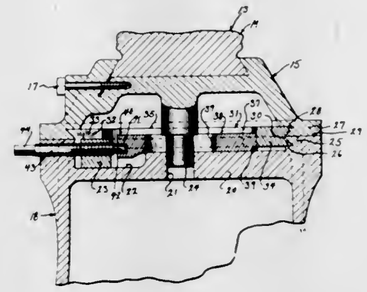
2,664,788
STEREOTYPE FINISHING MACHINE
Christopher Verne Knell, Glen Ellyn, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application November 16, 1945, Serial No. 629,122
6 Claims. (Cl. 90—15)



5. In a machine for finishing printing plates, the combination comprising a concave generally semi-cylindrical form for receiving a plate, means providing a pair of generally vertical guideways adjacent said form on opposite sides thereof, a pair of blocks respectively slidable in said guideways, said blocks having respective generally horizontal guideways thereon, a pair of supporting members for supporting the opposite straight edges of the plate, said members being slidable engaged with said horizontal guideways respectively, and means connected to said blocks and said supporting members for elevating said blocks and said supporting members while moving the latter horizontally along said horizontal guideways first inwardly and then outwardly to clamp the plate against said form.

2,664,789
MILLING MACHINE RAM SADDLE-WEDGE LOCK
Charles Tree, Racine, Wis.
Application August 18, 1952, Serial No. 304,959
2 Claims. (Cl. 90—17)

1. The combination with a milling machine of the type having a hollow column and a hollow rotatable ram saddle mounted thereon, of a locking and releasing device for locking and releasing the ram saddle in relation to the column, the upper inner end of said hollow column having an annular groove formed in its inner peripheral surface of a size and configuration to provide an upward and angularly extending surface, the lower inner end of the hollow rotatable ram saddle having formed in its inner peripheral surface a similarly shaped annular groove to provide a downwardly extending angular surface, said respective angular surfaces cooperating to form an annular projecting V, a three part ring segment including two equal side segments and a relatively smaller center segment, said side segments being spaced at one end to form an open throat, a V notch formed in the outer peripheral

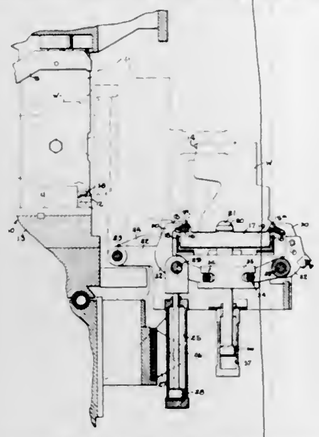


surface of said ring segments, a cross brace bar on said column adjacent the upper end thereof and below said annular groove, a wedge lock slidably mounted on said bar adjacent said open throat of the ring segment, a lock thrust bar supported by said cross bar having one end in abutting relation with the lock wedge and the opposite end abutting said center ring segment, an adjusting screw supported by said column and threadedly received in said wedge lock for sliding it into and out of said entrance throat, whereby, turning of the adjusting screw in one direction will move the wedge lock into the entrance throat and firmly press the lock thrust bar against the center segment of the ring segment to firmly lock the column and ram saddle against relative movement.

2,664,790
WORK LOADING MECHANISM
John M. Strachan, Rockford, Ill., assignor to The Ingersoll Milling Machine Company, Rockford, Ill., a corporation of Illinois
Application December 17, 1949, Serial No. 133,630
4 Claims. (Cl. 90—21)

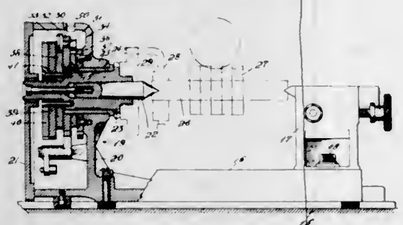
4. The combination of, a fixture having an upright horizontally facing locating surface, a platform adapted to receive and support a workpiece in a horizontal retracted position, means supporting said platform to swing upwardly about a horizontal axis and carry the supported workpiece from said retracted position to an upright position adjacent and spaced from said fixture surface, means on said platform for holding the workpiece thereon during upward swinging of the platform to said upright position, a pusher mounted on said platform for bodily movement therewith and movable relative to the platform to move the workpiece off from the latter and

press the same against said locating surface, and power actuators selectively energizable to swing



said platform and to move said pusher in and out.

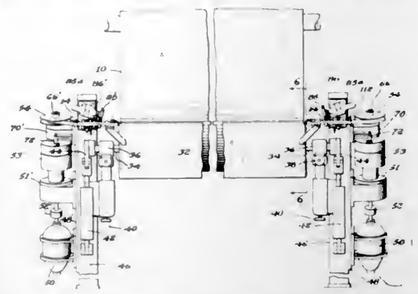
2,664,791
MANUAL INDEXING MECHANISM
Edward E. Powell, Conimicut, R. I.
Application January 5, 1949, Serial No. 69,317
15 Claims. (Cl. 90—56)



1. A manual index for a rotary work holder comprising a ratchet secured to said holder, a rockable member mounted for free rotative movement about the axis of said holder, a handle adjustably secured to said member, spaced stop means between which said handle moves to provide a limited arc of swing of said handle, a pawl carried by said member to engage said ratchet and move the work holder in one direction, and a cam fixed with relation to said member to control the engagement of said pawl with said ratchet during the arc of movement of the handle; said member being adjustable relative to said handle to vary the position of said pawls relative to cam.

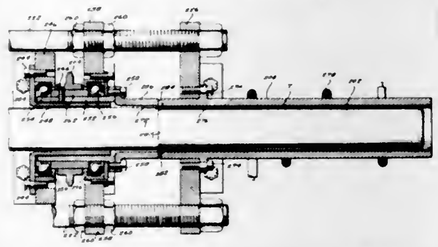
2,664,792
MULTILENGTH CONTINUOUS DOCTOR BLADE
Ernest P. Cook, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a corporation of Maine
Application September 27, 1949, Serial No. 118,150
6 Claims. (Cl. 92—74)

1. Apparatus for removing paper from a revolving roll to which it tends to adhere, comprising a flexible doctor blade of an indeterminate length exceeding the length of the roll, a weighted holder for the blade serving to automatically maintain the blade in operative position against the face of the roll and to compensate for reduction in the width of the blade due to wear and means for drawing the blade through the holder including a reel at either end of the roll in which one of the ends of the blade is secured,



each of said reels being powered by reversible means connected to the reel through clutch means adapted for automatic disengagement on winding rotation of the opposite reel.

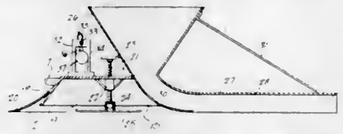
2,664,793
MEANS FOR SIZING AND SURFACE FINISHING PAPER TUBES AND THE LIKE
Charles K. Dunlap, Hartsville, S. C., assignor to Sonoco Products Company, a corporation of South Carolina
Application March 21, 1950, Serial No. 151,013
12 Claims. (Cl. 93—83)



3. A machine for dimensionally sizing and developing a hard, slick, protective coating on the exterior surface of a resin coated tubular paper body, said machine comprising a stationary work-holding die, at least one rotatable sizing die, and a stationary curing die coaxially disposed with respect to each other and mounted in succession for forming a substantially continuous cylindrical passageway through which said resin coated tubular paper body may be moved longitudinally, and a reciprocable mandrel for moving said resin coated tubular paper body longitudinally through said dies, said work-holding die and said curing die being proportioned in diameter for gripping said resin coated tubular paper body against rotation but allowing longitudinal movement thereof for dimensional sizing and surface development by said rotatable sizing die.

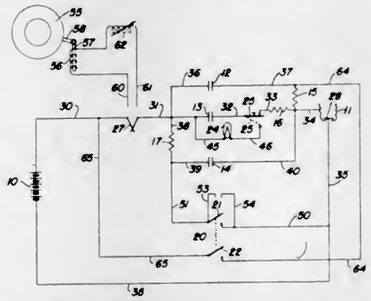
2,664,794
SIDEWALK GRADER AND PAVER
James R. Evans, Blackville, S. C.
Application March 7, 1952, Serial No. 275,260
2 Claims. (Cl. 94—46)

1. A sidewalk slab laying apparatus comprising a base, a transverse bar member beneath said base, a plurality of longitudinally extending ground-engaging shoes secured to said bar member, a vertical shaft threaded through said base and rotatably secured to said transverse bar member, a plow secured to the forward end of said base and comprising a pair of downwardly and forwardly inclined moldboard elements rigidly secured together and to said base, said moldboard elements merging in a sharp point at their forward ends, a hopper supported by said base, a downwardly facing, relatively wide, longitudinally



extending channel, and a downwardly and rearwardly curved conduit connecting said hopper to said channel, said channel being arranged to receive cementitious material from said hopper and to form the material into a slab responsive to forward movement of the base, and a brace between the end of said channel and the rear wall of said hopper.

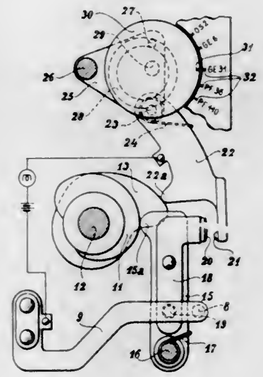
2,664,795
PHOTOGRAPHIC FLASH LIGHTING AND SYNCHRONIZING SYSTEM
Frederick F. Tone, Holley, N. Y., assignor to Graflex, Inc., Rochester, N. Y., a corporation of Delaware
Application April 29, 1950, Serial No. 158,987
6 Claims. (Cl. 95—11.5)



1. Photoflash apparatus comprising a source of electric power, a capacitor, a resistor, and terminals for a flashlamp, all connected in series, a second capacitor and a second resistor arranged in series with one another and with the terminals of said flash lamp and said source of electric power but connected in parallel to the first capacitor and first resistor, an electrically operable signal device, a switch movable to establish a discharging circuit between the first named capacitor and said signal device to operate the same, and a second switch movable to establish a discharging circuit between the second named capacitor and the flashlamp terminals.

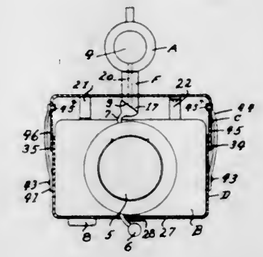
2,664,796
CURTAIN SHUTTER CAMERA WITH FLASH SYNCHRONIZING DEVICE
Wilhelm Stein, Wetzlar (Lahn), and Friedrich Gath, Altenkirchen ub. Weilburg, Germany, assignors to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany
Application January 17, 1951, Serial No. 206,342
Claims priority, application Germany February 9, 1950
4 Claims. (Cl. 95—11.5)

1. In a photo-flash synchronization mechanism combined with a focal plane shutter camera comprising a shutter release member and a shutter speed control member, said mechanism comprising an electric circuit for igniting a flashlamp and first contact means in said circuit controlled by the shutter release member: second contact means in said circuit, said second contact means including two levers carrying electrical contact elements, a first cam operatively connected to the shutter speed control member and arranged to position one of said levers in accordance with the setting of the speed control member, and a second cam operatively connected to the shutter and arranged to actuate the other



of said levers upon unwinding of the shutter, said other lever being provided with a feeler element in contact with said second cam, and setting means being provided for moving the feeler element along the curvature of said second cam and thereby to change the stroke of this lever, the setting means being adjustable in accordance with a scale representing different flash types, and the closing of the ignition circuit being effected when said first contact means is closed by the shutter release member and when said second contact means is closed upon contact between said contact elements carried by the said levers.

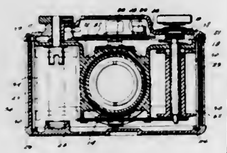
2,664,797
CAMERA GUN
Chester M. Thrasher, Paulding, Ohio
Application August 25, 1950, Serial No. 181,500
9 Claims. (Cl. 95—12)



1. A device of the character described comprising, a firearm including a barrel having a bore, a housing comprising quickly attachable and detachable upper and lower sections, the upper

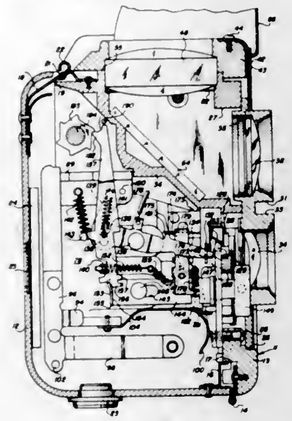
housing portion being supported from the underside of the barrel, a camera in the housing and adapted to taking a picture of an object aimed at by the firearm, the camera including a lens and a shutter associated therewith, a shutter operating mechanism including a cocking lever and a release trigger, an open ended conduit having one end in communication with the barrel bore and its other and escape end terminating in the housing and adapted to carrying off pressure generated in the barrel bore upon the discharge of the firearm, and the shutter releasing trigger being disposed in abutment with the escape end of the conduit when the shutter operating mechanism is in a cocked position.

2,664,798
CAMERA BODY CONSTRUCTION
Jacques Bolsey, New York, N. Y.
Continuation of application Serial No. 779,301, October 11, 1947. This application October 5, 1948, Serial No. 52,929
2 Claims. (Cl. 95—31)



1. In a photographic camera in combination, a camera body having a top face, a rear face having two lateral edges, and a bottom face having a front edge; an objective lens and focusing means arranged in the front part of said camera body; film transporting and guiding elements arranged in the rear part of said camera body; longitudinal grooves arranged along said lateral edges of said rear face of said camera body; a longitudinal projecting rim arranged along said front edge of said bottom face of said camera body; a camera top having a rear edge and fitting upon said top face of said camera body so as to form a compartment between the inner face of said camera top and said top face of said camera body; means for operating said film transporting and guiding elements arranged within said compartment and operatively connected with said film transporting and guiding elements arranged in the rear part of said camera body; a range finder arranged also within said compartment and operatively connected with said objective lens; a longitudinal groove arranged along the rear edge of said camera top; a removable combined rear and bottom camera cover having a rear portion with a top and two lateral edges and a bottom portion with a front edge and adapted to cover said rear face and said bottom face of said camera body; longitudinal projecting rims arranged along said lateral edges of said rear portion of said camera cover cooperating with said longitudinal grooves arranged along said lateral edges of said rear face of said camera body; a longitudinal projecting rim arranged along said top edge of said rear portion of said camera cover cooperating with said longitudinal groove arranged along said rear edge of said camera top; and a longitudinal groove arranged along said front edge of said bottom portion of said removable camera cover cooperating with said longitudinal projecting rim arranged along said front edge of said bottom face of said camera body.

2,664,799
CAMERA WITH FILM WIND AND SHUTTER SET INTERLOCK
Leonard A. Wilkinson, Ann Arbor, Mich., assignor to Argus Cameras, Inc., Ann Arbor, Mich., a corporation of Michigan
Application July 29, 1949, Serial No. 107,519
6 Claims. (Cl. 95—31)

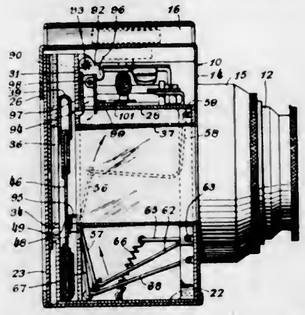


1. In a camera, a pivoted shutter control part, a pivoted lever operatively connected to said part, a member movably mounted with respect to said lever, a manually releasable latch in the path of movement of said member, a unidirectionally rotatable film wind spindle, said member having in one position one end operatively connected to said spindle and its other end disengaged from said latch, and having in another position said one end operatively disconnected from said spindle and said other end engaged with said latch, means including coacting parts on said member and spindle for moving said member into said other position to be retained by said latch when the spindle is rotated and for operatively disconnecting said spindle and member when said member has been so latched, means connecting said lever and member for rocking said lever in shutter setting direction when said member is so moved by the spindle, and a spring connected to said lever for rocking said lever in the other direction to actuate said shutter control part to trip the shutter when the latch is released.

2,664,800
PHOTOGRAPHIC CAMERA AND SHUTTER MECHANISM THEREFOR
Alfred Croger Mayo, Richmond, England
Application September 25, 1950, Serial No. 186,547
Claims priority, application Great Britain October 5, 1949
2 Claims. (Cl. 95—55)

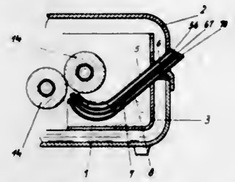
1. Shutter operating mechanism for a roll film camera comprising leading and trailing shutters which move in succession across a picture gate during an exposure, spring means acting on said leading shutter and separate spring means acting on said trailing shutter to effect the movement of the said shutters during an exposure, a rocking shaft, a pair of arms fixed to said rocking shaft, link means connecting said arms to the leading shutter, a third arm on said rocking shaft, a shutter setting arm mounted for angular movement and co-operating with said third arm to rotate the rocking shaft and move the leading shutter to a set position in which it covers the

picture gate, means on said leading shutter to engage the trailing shutter and move it with the leading shutter during the setting movement, a toothed sector mounted to move as one with said shutter setting arm, an axially slidable pinion meshing with said toothed sector, means to rotate said axially slidable pinion, means frictionally restraining rotation of said axially slidable pinion, a rod pivotally connected to said toothed sector at a point offset from the pivot thereof, a lateral projection on said rod, guide means constraining said lateral projection to move in a rectilinear path, means to displace the axially slidable pinion and thereby release the toothed



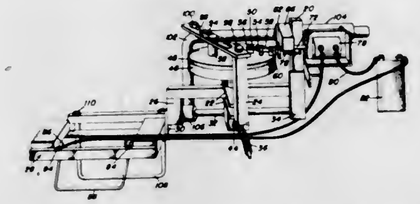
sector and leading shutter and move the lateral projection along its rectilinear path, a catch to retain the trailing shutter in the set position, a striker, spring means urging said striker in a direction to release said catch, a cam edge on said striker engaged by said lateral projection, said cam edge being so shaped that when the shutters are set the striker is held clear of the catch by the lateral projection and is released to free the catch when the lateral projection reaches a predetermined point thereon, and means for effecting substantially linear movement of the striker in the direction of movement of the lateral projection to vary the point in the stroke of the latter at which the striker is released.

2,664,801
DEVELOPING APPARATUS
Walter T. E. Eisbein, Stuttgart-Bad Cannstatt, Germany
Application March 19, 1951, Serial No. 216,341
Claims priority, application Germany April 4, 1950
4 Claims. (Cl. 95—89)



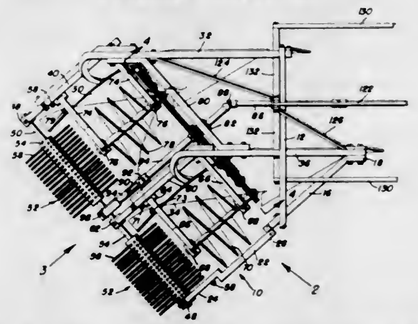
1. A device for the developing and transferring of reproductions of the character described, which comprises a casing for holding developer liquid, an opening in said casing above the liquid level for the insertion of sheet material to be processed, a set of rollers comprising at least one pair of contacting rollers within said casing, the contacting portions of said rollers being at a level normally above the surface of the liquid, and fixed guiding means forming at least a first curved slideway and a second curved slideway, said first and second slideways being arranged one above the other and leading from said opening to below the surface of the liquid and out of the latter again upwards to the set of rollers, that portion of a first slideway below the liquid level being formed by walls free of perforations so as to prevent access of the liquid to the material fed therethrough, the second slideway having perforations therein below the liquid level.

2,664,802
AUTOMATIC ROW CULTIVATOR
Ira Myer, Ephrata, Pa.
Application November 27, 1950, Serial No. 197,733
6 Claims. (Cl. 97—18)



1. A cultivator comprising a frame, a bar slidably mounted for laterally reciprocating movement on said frame, an earth-working tool carried by said bar, an electric switch having a switch actuator operated on contact with a plant, and means carried by said frame to move said bar when said switch is closed comprising a continuously rotating element and means for connecting said bar to said element when the switch is closed, said continuously rotating element consisting of a driving disk, said connecting means including a driven disk mounted coaxially with the driving disk and connected with said bar, and a releasable driving connection between said disks to operate in response to plant contact by the switch actuator.

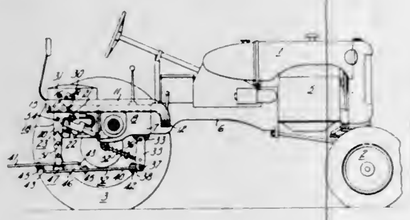
2,664,803
POWER PULVERIZING PLOW
Robert P. Ganzmann, Little Falls, N. Y.
Application June 6, 1951, Serial No. 230,190
6 Claims. (Cl. 97—35)



3. A power pulverizing plow comprising a frame, a pair of spaced parallel screws mounted for rotation on the frame, pairs of spaced parallel vertically swingable arms forming part of the frame and rotatably supporting the screws, spring means urging the arms toward the ground, a vertically swingable support forming part of the frame and including a rotatable shaft disposed transversely of the screws and behind the screws, a pair of spider-like pulverizers mounted

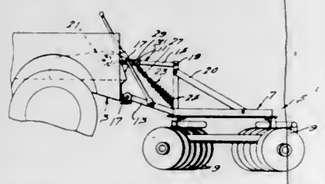
on the shaft behind the screws, and a driving member operatively connected to said shaft and said screws for rotating the same as a unit.

2,664,804
TRACTOR DRAWBAR SUPPORT
Charles T. O'Harrow, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application March 10, 1950, Serial No. 148,843
7 Claims. (Cl. 97—46.35)



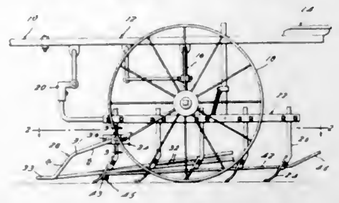
7. In a tractor having a longitudinally extending drawbar mounted thereon for vertical swinging movement, and having a power lift means comprising a source of fluid pressure, and a fluid actuated motor pivotally mounted on the tractor for swinging movement relative thereto, an improved implement lift and drawbar supporting structure comprising, a pair of laterally spaced levers each presenting a lift arm and at least one presenting an actuating arm angularly disposed with respect to its associated lift arm, said levers being pivotally mounted at the rear of said tractor with said actuating arm operably connected with said fluid actuated motor, a bail structure having a bight portion connected in supporting relation to said drawbar and presenting a pair of relatively spaced leg portions joined together by said bight portion, and means detachably securing said leg portions, respectively, in adjustable extension forming coaxial relation to said lift arms.

2,664,805
RESILIENT SUSPENSION FOR FARM IMPLEMENTS
Robert Henry Green and Spencer Austin Brackett, Monroe, Mich., assignors to Monroe Auto Equipment Company, Monroe, Mich., a corporation of Michigan
Application July 16, 1949, Serial No. 105,212
2 Claims. (Cl. 97—46.95)



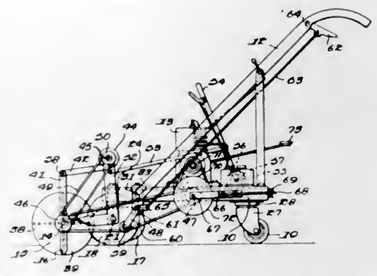
2. A depth control device for use with an agricultural implement having ground-engaging elements, and connected with a towing vehicle through a three-point type hitch means including upper and lower links, said device including a pair of laterally spaced tension spring members connectable at one end to said implement, adjacent the lower links, and means connected with the opposite ends of said spring members for adjustably connecting the same to the upper link of the hitch means.

2,664,806
VINE TURNER ATTACHMENT FOR CULTIVATORS
Charles T. McCready, Onley, Va.
Application January 10, 1951, Serial No. 205,265
3 Claims. (Cl. 97—192)



1. In a vine turned attachment for a cultivator of the type having two spaced gangs of shovels and suspending shanks therefor; a pair of units each having an arm and a rod joined at one end to form a V, the rods being of greater length than the arms, means securing each arm to and in crossed relation with a shovel shank of one gang to position the units at opposite sides of the longitudinal center of the cultivator, the apex of the V of each unit being pointed in the direction of travel of the cultivator, said rods of the units extending obliquely rearwardly one over the other in vertically spaced cross relation intermediate their ends, said vertical spacing of the rods permitting the free passage of vines therebetween, a pair of second rods, means securing each of the second rods to a shovel of one gang located rearwardly of the apex of the adjacent unit, each of said second rods extending obliquely rearwardly in crossed relation with and spaced below the rod of the remote unit.

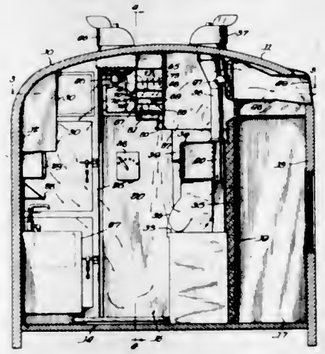
2,664,807
MOTOR PROPELLED LAWN EDGER
William R. Hedrick, Knoxville, Tenn.
Application February 6, 1950, Serial No. 142,588
1 Claim. (Cl. 97—227)



In a lawn edger, the combination which comprises a platform mounted on wheels, a motor mounted on the platform, a pair of arms pivotally mounted on the platform and extended from the forward end thereof, a cutter shaft journaled in the extended ends of the arms, a conical shaped cutter including a disc with triangular shaped radially disposed cutting blades on the outer face thereof carried by an extended end of the cutter shaft, a vertically disposed reciprocating cutter blade pivotally mounted on the cutter shaft and positioned against the inner face of the disc of the cutter whereby the lower end of the blade coacts with the conical shaped cutter to form a trench, an upstanding member on each of the arms, means connected to one of said upstanding members for actuating the arms to adjust

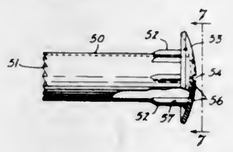
the elevation of the shaft for adjusting the position of the mounting elements, means connected between the shaft and the motor for rotating the conical shaped cutter, an upper shaft journalled in said upstanding members and positioned parallel to the cutter shaft, a disc having a pin eccentrically positioned thereon and carried by the upper shaft, a bar connecting the eccentrically positioned pin to the upper end of the vertically disposed reciprocating cutter blade for actuating the said reciprocating blade, means driving the upper shaft from the cutter shaft, and an arcuate deflector blade mounted on one side of the platform and positioned to follow the cutter elements for dispersing material removed by the said elements.

2,664,808
DINING CAR KITCHEN VENTILATING SYSTEM
Hartin F. Peterson, Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application April 29, 1948, Serial No. 24,013
9 Claims. (Cl. 98—10)



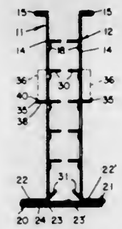
9. In a railway car, a kitchen including a working space, a cooking range disposed in said kitchen at one side of said space, various kitchen appliances disposed in said kitchen at the opposite side of said space and defining work positions in said working space, an air supply blower, an overhead air supply duct extending into the kitchen substantially at the front of the range adapted to deliver air moved by the blower, an air outlet in the bottom wall of the duct through which air is discharged downwardly to the range, and an air outlet in a side wall of the duct exposed in said working space discharging air across said space to the work positions.

2,664,809
AIR VENT TUBE
Joseph J. Morell, East Cleveland, Ohio
Application June 27, 1951, Serial No. 233,804
3 Claims. (Cl. 98—37)



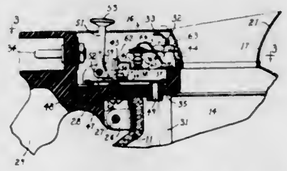
1. A vent tube for building walls, comprising a tubular body having a cylindrical outer contour, one end of said body being open and the opposite end being partially closed by a sharp edged, generally circular, plate of greater diameter than said tubular body to provide a radial flange thereon, said plate being dished outwardly in an axial direction to provide a smooth convex outer surface and having a narrow diametrically extending breather slot therethrough, whereby, when said tube is inserted in an aperture in a building wall with the sharp edge of said flange snugly engaging the outer surface thereof and said slot extending in a vertical direction, the convex outer surface of the plate tends to direct water flowing down the outer surface of the wall away from said slot and said aperture.

2,664,810
CAKE PRESERVER DEVICE
Percy H. Halbriter, Los Angeles, Calif.
Application December 19, 1949, Serial No. 133,742
2 Claims. (Cl. 99—234)



1. A device for retaining edible cakes after the same have been cut, comprising a pair of corresponding rectangular perforate plates hingedly secured together, said plates being provided with barbs on their inner faces for impaling a slice of bread or the like thereon, said plates each being provided with a double flange at its lower margin, said flange extending at right angles to the plane of the plate and to the hinged axis of the plates and extending to each side thereof, said flanges being constructed and arranged to telescope one within the other to permit said plates to be pivoted to a closed position of parallelism.

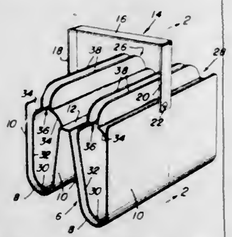
2,664,811
COFFEE MAKER
Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application December 31, 1947, Serial No. 794,959
13 Claims. (Cl. 99—281)



1. A coffee maker having, in combination, a coffee infusion vessel having a depending tube, an open-top vessel adapted for containing water to be heated, a unit of assembly detachably mounted on the water vessel, said unit providing a cover enclosing the open top of the water vessel and providing an opening for passage of said tube into the water vessel, said unit serving to seal the top of the water vessel so that water may be displaced from said water vessel to the infusion vessel through said tube in response to pressure generated within the water vessel, said unit equipped with an immersion heating element depending into the water vessel, a dia-

phragm within said unit responsive to pressure in the water vessel, an electric circuit for the heating element including a switch device within the unit coacting with said diaphragm, said heater circuit being closed for starting the coffee making operation so that heated water will be displaced to the infusion vessel in response to pressure within the water vessel, said diaphragm being responsive to said pressure in the water vessel and coacting with said switch to open the heating circuit after a maximum pressure has been reached in the water vessel incident to displacement of water therefrom in the coffee making operation and after the pressure has dropped below said maximum following said water displacement.

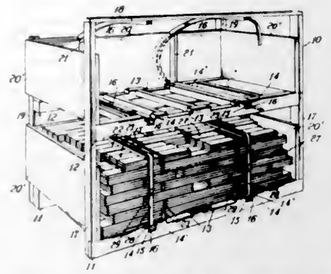
2,664,812
MOLD FOR FRYING TACOS WRAPPERS
Gilberto Molina, Tucson, Ariz.
Application May 10, 1951, Serial No. 225,504
2 Claims. (Cl. 99—426)



2. A tacos wrapper shaping and frying mold through the medium of which each tacos wrapper is bent into desired shape, a shape which is to be maintained after it has been fried to desired crispness, comprising an outer mold unit embodying a plurality of spaced molds adapted to receive and impart the desired shape to the tacos wrapper during the dipping and frying step, said molds being imperforate, U-shaped in cross-section, and open at their respective vertical ends, a substantially U-shaped handle having its bight portion straddling the upper open ends of said U-shaped molds and having its depending lateral arms fastened to the upper intermediate edge portions of the outermost walls of said unit, and an expansible and contractible inner mold for each of said outer molds, each inner mold being an open-ended tube having its upper end longitudinally split for expansion and contraction with the edges along said split having spaced parallel flanges accessibly projecting to planes above the open upper end portions of said outer molds and providing finger-grips, said finger-grips being situated beneath the bight portion of said handle where they are accessible while catching hold of said handle.

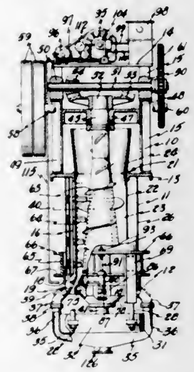
2,664,813
APPARATUS FOR PACKAGING LUMBER
Daniel M. Rose, Knoxville, Tenn.
Original application, October 17, 1950, Serial No. 190,625. Divided and this application January 3, 1952, Serial No. 264,807
4 Claims. (Cl. 100—25)

2. Apparatus for packaging bundles of lumber comprising a bin, said bin having front and rear spaced sills, an upper sill at the front of the bin, said front and rear sills each having a pair of spaced U-shaped notches formed therein and a pair of substantially T-shaped notches formed therein, and a U-shaped channel guide member positioned within the stem of each of said T-shaped notches, said guide members each having an end thereof secured to said upper sill, the head of each of the T-shaped slots formed in the front



and rear sills being adapted to receive a spacer strip for binding in the lumber package.

2,664,814
PULP PRESS
Clarence E. Ahlborn, Saginaw, Mich., assignor to Jackson & Church Company, Saginaw, Mich.
Application February 21, 1948, Serial No. 10,049
11 Claims. (Cl. 100—117)

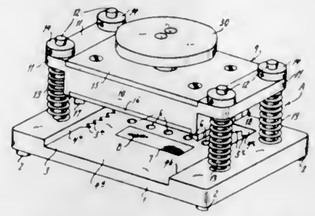


1. In a continuous extrusion press, inner and outer press members defining an extrusion chamber therebetween having a discharge end, an annular member mounted at the lower end of said press members having an inwardly and upwardly directed wall, a ring slidably mounted on said annular member, a choke member supported by said ring and movable toward and away from the discharge end of said press, a series of pressure-actuated cylinders secured to said annular member in circumferentially spaced-apart relation, and piston rods connecting the pistons of said pressure-actuated cylinders with the movable ring, the extension of said piston rods moving the choke member toward the discharge end of said press.

2,664,815
MACHINE FOR PRINTING AND PERFORATING SALES TICKETS USING ADDRESS PLATES
Levyn Ray Schuessler, University City, Mo.
Application February 8, 1951, Serial No. 209,928
4 Claims. (Cl. 101—19)

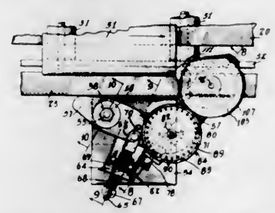
1. A machine of the class described comprising a base member, a movable head member supported for movement with respect to said fixed member, a plurality of cutters supported by said movable head member for movement therewith and with respect thereto, said base member being

adapted to receive a sales ticket, and a plate provided with raised printing portions and having openings formed therethrough through which certain of said cutters may pass to perforate said sales ticket and against solid portions of which certain others of said cutters are adapted to abut so as to arrest movement of the latter cutters with said movable head member and prevent perfora-



tion of said sales ticket thereby, and inking means located in said base member in juxtaposition to said sales ticket and said plate and into contact with which said sales ticket is moved in response to movement applied to said plate by said movable head member so as to cause said raised portions of said plate to apply printed matter to said sales ticket.

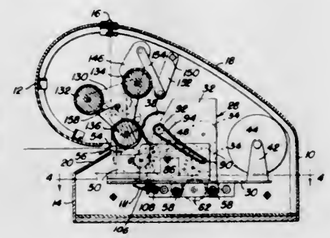
2,664,816
CASE MARKING DEVICE
William Gibson, Bellmore, N. Y., assignor to California Packing Corporation, San Francisco, Calif., a corporation of New York
Application July 9, 1949, Serial No. 103,931
7 Claims. (Cl. 101—37)



1. A printing mechanism for printing objects supported for rectilinear movement past said mechanism comprising: a pivoted supporting plate; a printing roll journaled on said plate; an inking roll journaled on said plate and engageable with said printing roll; a bracket mounted adjacent said plate; an arm having one end thereof engaging said plate and the other end thereof passing through said bracket, an adjusting nut threaded on said other end; spring means on said arm acting between said bracket and said plate and normally biasing said plate to engage said printing roll with said objects and second spring means acting between said bracket and said adjusting nut and opposing the bias of said first spring means to prevent slapping of said plate said nut being adjustable on said other end to adjust the positioning of the printing on said objects.

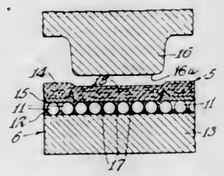
2,664,817
MACHINE FOR SELECTIVELY PRINTING AND FEEDING TAPE
Earl A. Jacobson, Elk Point, S. Dak.
Application October 27, 1949, Serial No. 123,811
11 Claims. (Cl. 101—92)

9. A tape identifier for meat cuts and the like comprising an elongated housing, a tape holder mounted in the housing for sliding movement longitudinally of the housing, a printing roller mounted in the housing and having a plurality of longitudinally spaced printing bands thereon, said holder including a pressure roller adapted to underlie a selected one of said bands, means connected to the holder for moving the holder to position the pressure roller under a selected one of said bands, means associated with the holder



for feeding tape from the holder between the two rollers, first and second spaced parallel shafts journaled in said housing for rotation, cutting means for tape leaving the holder, a connector between said cutting means and said second shaft for actuating said cutting means during rotation of said second shaft, and means carried by said first shaft for imparting rotation to said second shaft during rotation of said first shaft in one direction.

2,664,818
STENCIL AND BACKING UNIT
Charles K. Heasley, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application December 15, 1944, Serial No. 568,313
6 Claims. (Cl. 101—128.2)

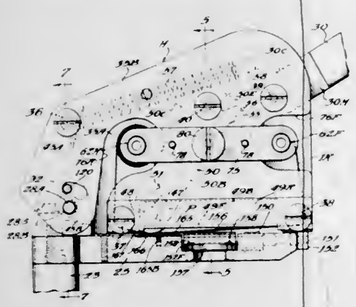


1. In combination, a stencil sheet upon which pervious areas may be formed by the application of pressure and without perforating the sheet and a backing for said sheet comprising a multiplicity of minute globular particles of substantially uniform size having rounded segments protruding in contact with said sheet and in spaced relation to each other, a flexible support for said particles and an adhesive bonding said particles to said support, said particles being submerged in the adhesive to a depth not exceeding one-half their diameters.

2,664,819
PRINTING MACHINE
Edward J. Janke, Cleveland, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware
Application August 24, 1949, Serial No. 111,987
5 Claims. (Cl. 101—274)

1. In a sales slip printing apparatus, a base having a platform across the upper face of which a sales slip may be disposed for performance of

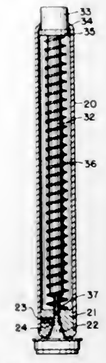
a printing operation, means on said platform for removably receiving and positioning a customer's token constituting a printing device from which a printed impression is to be made onto a sales slip, means at one end of said platform providing a pivotal mounting axis extending transversely across and parallel to said upper face of said platform, a printing head mounted on said axis for movement from an out-of-the-way position, which exposes the upper face of said platform, to an operative position over and in an opposed relation to the upper face of said platform, said head comprising a pair of parallel, spaced side frame plates disposed perpendicular to said axis, a plurality of spacer members extended between said plates and holding the same in rigid spaced relation, torsion spring means mounted on said axis and having one arm acting on said platform and another arm acting on a first one of said spacer members of said head to urge said head to said out-of-the-way position, said plates having parallel lower guiding edges formed there-



on, a platen roller having a central shaft projecting from its ends, guide wheels on the opposite ends of said shaft engaging said guiding edges, retaining rails secured in position on the respective plates by means of portions of at least two other of said spacer members and engageable with said guide wheels to hold said platen in position with said wheels opposite said guiding edges, a rocking arm structure mounted on still another one of said spacer members between said plates for rocking movement, said rocking structure having slotted elements engaging said shaft adjacent the respective rollers for imparting movement to said platen roller, an operating handle pivotally mounted between said plates on a further one of said spacing members and having a pin and slot connection with said rocking arm structure for rocking the same, and spring means acting between said handle and said first one of said spacer members to urge said handle to a retracted position.

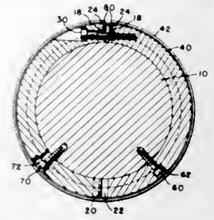
2,664,820
HAND STAMP DEVICE
George T. Brown, Jr., Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application July 7, 1950, Serial No. 172,487
4 Claims. (Cl. 101—405)

1. A type member including a cup in which a type character is held, a rim-like shoulder portion extending outwardly from the bottom of the cup so the type member may be suspended cup side down in a hole in a tray, which hole will receive the cup proper but not the rim-like shoulder, and said cup-shaped holder having a cone-shaped tenon extending outwardly from the bottom thereof, said tenon having a groove around



it between the apex and base in a plane normal to the axis of the cone.

2,664,821
METHOD OF AND MEANS FOR VARYING THE CIRCUMFERENCE OF PRINTING CYLINDERS
Harold W. Huffman, Hamilton, Ohio, assignor to The Hamilton Tool Company, Hamilton, Ohio, a corporation of Ohio
Application March 13, 1951, Serial No. 215,352
8 Claims. (Cl. 101—415.1)

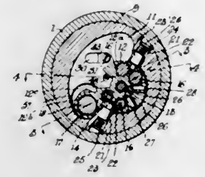


1. An adjustable circumference printing cylinder comprising, in combination, a carrier cylinder, a pair of complementary half-cylinder shells each including forward and rear edges wherein the rear edges are provided throughout their length with alternate tongues and grooves, the tongues of one shell slidably engaging the grooves of the other shell for permitting limited rotary motion while precluding relative axial movement between said shells, radial members projecting inwardly from each shell adapted to abuttingly engage portions of the outer surface of the carrier roll for providing an effective circumference in excess of and in spaced parallelism with the outer surface of the carrier roll, and clamping means including a flexible printing-plate carrier-sheet circumscribing said shells and means spanningly interconnecting said shells for movement on the carrier cylinder for tensioning said sheet onto and around said shells while simultaneously clamping them onto the carrier cylinder.

2,664,822
FUZE
Frank B. Hale, Bel Air, Md., assignor to the United States of America as represented by the Secretary of the Army
Application January 3, 1950, Serial No. 136,615
11 Claims. (Cl. 102—74)
(Granted under Title 35, U. S. Code (1952), sec. 266)

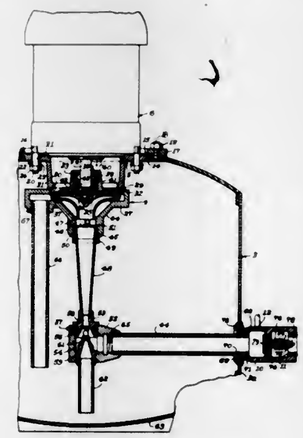
1. A fuze for rotatable projectiles comprising the combination of a casing, a firing pin axially

mounted therein and movable relative thereto along the said axis, a projectile actuating charge mounted in the casing along the axis of movement of the firing pin and spaced, beyond the movable distance of the firing pin, an unbalanced rotor rotatably positioned between the said pin and said charge and eccentrically mounted relative to the rotational axis of the fuze and on an axis substantially parallel thereto, a detonator carried by the rotor and movable into and



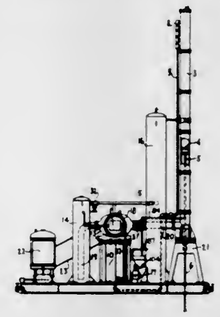
out of a position intermediate the firing pin and projectile actuating charge, within the movable distance of the firing pin, upon rotation of the rotor, a weight attached to the rotor to shift the center of mass thereof to a position along a new radial vector with respect to the rotational center of the rotor and means to release the weight and thereby induce the rotor to turn when the fuze is rotating and thereby move the detonator into said intermediate position.

2,664,823
PUMP UNIT
Alex H. Steenrod, Freeport, Ill., assignor to Woodmanse Mfg. Co., Freeport, Ill., a corporation of Illinois
Application March 28, 1951, Serial No. 218,028
16 Claims. (Cl. 103—5)



1. In a self-contained pump unit, the combination of a tank having intake and discharge openings located below the normal water level in said tank, an electric motor mounted on a vertical axis on top of said tank having an armature shaft extending downwardly into a centrifugal pump housing that is disposed inside the upper portion of the tank and suspended from the top wall thereof, said pump housing containing an impeller drivingly secured to the end of said shaft, a discharge pipe that is short in relation to tank height extending downwardly from the peripheral discharge portion of said pump housing to below water level in the tank, a venturi disposed over an injector nozzle in another housing spaced below the pump housing at below water level in said tank, said Venturi housing communicating through said injector nozzle directly with the bottom portion of the tank and being suspended from the pump housing by a pipe that is shorter than the discharge pipe and communicating through said suspension pipe with an axial intake opening provided in said impeller, and an intake pipe extending laterally from that portion of the Venturi housing between the venturi and nozzle to the intake opening in the tank.

2,664,824
PUMPING UNIT
Louis Fincher, Lufkin, Tex., assignor to Lufkin Foundry & Machine Company, Lufkin, Tex., a corporation of Texas
Application December 3, 1949, Serial No. 130,981
7 Claims. (Cl. 103—6)

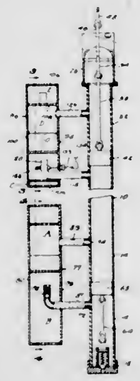


1. A counter-balancing pumping unit comprising, a vertically extending power cylinder, a piston therein, means connected to the cylinder and adapted for connection to a bottom hole pump plunger, a plurality of vertically aligned discharge valves in said power cylinder at substantially the top thereof, a surge tank, liquid return means connected to said valves for returning liquid from above said piston to said surge tank, a self-reversing pump for transferring liquid back and forth between said power cylinder below said piston and said surge tank, an air cylinder, a compressor for supplying compressed air to said air cylinder, a line for connecting said air cylinder and surge tank, control means responsive to liquid pressure in said power cylinder below said piston to start and stop said compressor and to bleed air from said air cylinder to maintain a counter-balance between compressed air pressure and power cylinder liquid pressure below said piston, one of said valves being open while the others are closed to limit upward piston travel and said self-reversing pump having means therein to permit the pump to discharge more liquid in one direction than in the other direction.

2,664,825
MULTICYLINDER PUMPING SYSTEM
Leonard E. Sundstrom, Litchfield, Nebr.
Application January 29, 1952, Serial No. 268,851
2 Claims. (Cl. 103—46)

1. In a multi-cylinder pumping system a pair of spaced parallel water filled well pipes extending into a well, a pair of lower pump cylinders carried by the well pipes adjacent the bottom of the well, a check valve connected to the bot-

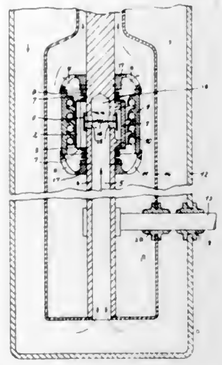
tom end of each lower cylinder below the level of the water in the well for admitting water into its respective cylinder, a pair of lower pistons working in the lower cylinders, a lower walking beam mounted between the lower cylinders to oscillate adjacent the check valve, said lower walking beam being operatively connected to the lower pistons, an upper pair of pump cylinders carried by the well pipes adjacent the top of the well, an upper pair of pistons working in the upper pair of cylinders, an upper walking beam extending between the upper cylinders above the upper ends thereof and operatively connected with the upper pistons, means carried by the upper walking beam above the well for positively oscillating it and reciprocating the upper pistons in the upper cylinders and by the water in the well pipes reciprocating the lower pistons in the lower cylinders, a conduit connected to one of the lower cylinders below the piston working therein and to the second lower cylinder above the piston working therein, a second con-



duit connected to the second lower cylinder below the piston working therein and to the first lower cylinder above the piston working therein, check valves in said conduits adapted to open under the pressure of water expelled from the cylinders into the conduits, an elongated chamber having a discharge opening extending therethrough, a third conduit connected to one of the upper cylinders below the piston working therein and to the second upper cylinder above the piston working therein, a fourth conduit connected to the second upper cylinder below the piston working therein and to the first mentioned upper cylinder above the piston working therein, check valves in said conduits for arresting the flow of water downwardly therethrough, the upper ends of the upper cylinders opening into the chamber, and check valves within the chamber and operatively connected to the cylinders to arrest the flow of water from the chamber into the cylinders.

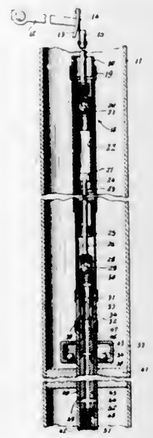
2,664,826
ELECTRICALLY OPERATED FLUID PUMP
Paul Duffing, Berlin-Siemensstadt, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a German corporation
Application May 14, 1952, Serial No. 287,671
Claims priority, application Germany June 7, 1951
11 Claims. (Cl. 103—152)

1. An electric pump, comprising an alternating-current conductor for providing an alternating field, a slitted hollow cylinder of magnetizable material surrounding said conductor in said field to be periodically contracted due to said field, two annular cover members surrounding said conductor and having respective springs



biasing said cover members against said cylinder at opposite axial sides respectively, and inlet valve means communicating with the interior of said cylinder.

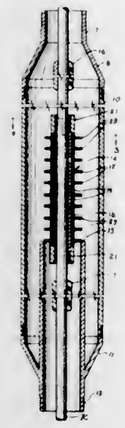
2,664,827
OIL WELL PUMP
James R. Hatfield, Bartlesville, Okla., assignor to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware
Application December 29, 1949, Serial No. 135,678
6 Claims. (Cl. 103—179)



1. An oil well pump assembly operative to selectively pump from two producing zones including in combination a hollow plunger operatively connected to a sucker rod string, a liner fitting about the plunger, a jacket enclosing the liner, a plunger nut forming an inner shoulder about the interior circumference of the lower end of the plunger, a garbutt rod extending into the interior of the plunger, a flange attached to the upper end of the garbutt rod adapted to engage with the plunger nut, a mandrel operatively connected to the lower end of the garbutt rod and provided with inwardly compressible fingers adapted to engage an inner shoulder of a lock shoe attached to the lower end of the jacket, a downwardly extending length of tubing attached

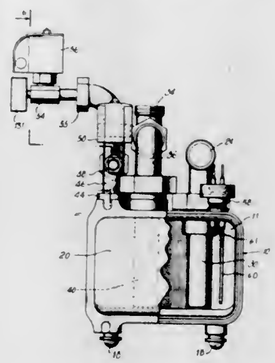
to the lower end of the lock shoe, the said tubing being closed at its lower end, upper and lower sets of parts in said tubing, a hollow slide valve enclosed within the tubing, upper and lower sets of ports in said valve, a spring compressibly inserted between the closed end of the tubing and the slide valve exerting an upward force upon the slide valve, the said slide valve having an exterior diameter at its upper portion less than the exterior diameter at its lower portion forming a shoulder near the upper portion of the slide valve, a stop near the upper end of the tubing adapted to engage the said slide valve shoulder, and so positioned than when the said stop is in engagement with the said shoulder, one set of valve ports are in register with one set of tubing ports, a stop near the lower end of the tubing adapted to engage the bottom portion of the slide valve, and so positioned that when the said stop is in engagement with the said bottom portion of the valve, the other set of valve ports are in register with the other set of tubing ports.

2,664,828
SAND TRAP FOR OIL WELLS
George F. Le Bus, Wichita Falls, Tex.
Application June 3, 1950, Serial No. 165,987
3 Claims. (Cl. 103—220)



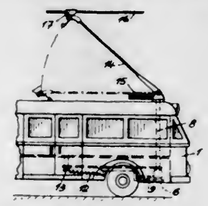
1. A sand trap for use in a pumping oil well having casing, tubing, pump rods and a pump therein, said sand trap being positioned within a length of tubing directly above said pump and connected therewith, said pump rods being adapted to pass through said trap, said trap comprising a shell of larger diameter than said tubing for forming an annular sand receiving chamber therein, a tubular member, a series of flexible disk closure means having axial openings therethrough sleeved over and spaced along said tubular member and secured in fixed relation with respect thereto, said tubular member being sleeved around one of said pump rods so as to permit limited axial movement of said pump rod with respect to said tubular member and said flexible disk closure means so said pump rod may reciprocate therein during normal pumping operation, said flexible disk closure means being adapted to deflect sand and foreign matter outward into said trap, and an abutment formed on said pump rod below said tubular member so as to lift said tubular member upon the removal of said pump rods from said well.

2,664,829
PUMPING MECHANISM
Ralph Horton, Groton, Conn., and Newton E. Spiess, Jr., Oakdale, and Kenneth R. Weaver, Bellport, N. Y., assignors to National Dairy Research Laboratories, Inc., Oakdale, N. Y., a corporation of Delaware
Application April 26, 1951, Serial No. 223,118
6 Claims. (Cl. 103—241)



1. Fluid pumping mechanism, comprising two pump chambers, a first supply pipe communicating with the chambers for supplying a fluid to be pumped, a second supply pipe communicating with the chambers for supplying a pumping fluid thereto, a discharge pipe communicating with the chambers for discharging pumped fluid, first check valves in the connections of the first supply pipe with the respective chambers, second check valves in the connections of the discharge pipes to the respective chambers, vent means for each of the chambers, first valves to control the respective vent means, second valves to control the second supply pipe to the respective chambers, high liquid level actuated means and low liquid level actuated means in each of the chambers, means actuated by said respective high level means to close said respective first valves, means actuated by said respective low level means to open said respective first valves and close said respective second valves, and means actuated by said respective high level means and the low level means in the other chamber for opening said respective second valves.

2,664,830
TRACKLESS VEHICLE DRIVEN BY ELECTRIC MOTORS
Karl Kreibich, Vienna, Austria, assignor to "Rivarossi" Officine Miniature Elettroferroviarie Soc. Acc. Semplice A. Rossi & F. Brunner, Como, Italy, an Italian company
Application February 5, 1948, Serial No. 6,449
2 Claims. (Cl. 104—247)



1. An electrically operated vehicle comprising, in combination, a bogie supporting one end of the

vehicle and consisting of a single, two-wheeled axle of said bogie pivotable about a vertical axis; a rotatable shaft held in spaced, parallel relation to the vertical axis of said bogie; a first substantially horizontal lever being integral with one end of said shaft; a pin rigidly connected to said first lever, said pin being arranged at a distance apart from said shaft; a second substantially horizontal lever being integral with the frame of said bogie and extending forwardly thereof, said second lever having a slot engaged by said pin, said slot including a straight end portion corresponding in width to the diameter of said pin, and a main portion including two oppositely arranged circular arcs, whereby said pin engages said end portion of said slot when said first lever swings within a predetermined angle so that said second lever carries out a rocking motion with respect to the body of the vehicle, whereas at a swinging motion of the first lever exceeding the predetermined angle said pin engages one of said circular arcs so that said second lever is unaffected by the swinging motion of said first lever.

2,664,831

SINGLE TRACK GAME FOR TWO VEHICLES

Ernest Fields, New York, N. Y.

Application October 4, 1950, Serial No. 188,329
7 Claims. (Cl. 104—253)



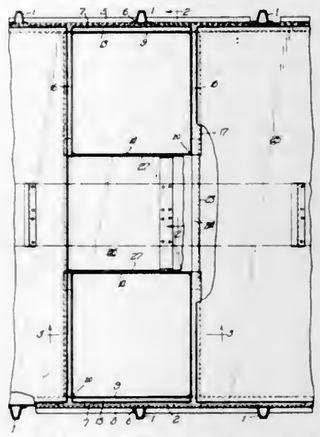
1. In a toy track system of the type in which two motor driven vehicles are arranged to travel in opposite directions over a single track system a double track switching section included in said single track system, a pair of control members, each of said members having an intermediate bight and a pair of side arms, means for pivotally supporting the bight of each member on said switching section in a position in which each bight extends transversely to the direction of said section tracks, each of said arms being biased to protrude from the running surface of one of said section tracks and into the path of vehicles travelling over said switching section for engagement with the said vehicles, one arm of each control member being positioned to abut in one pivotal position of the respective control member against a vehicle travelling over the respective track of said switching section so as to arrest the vehicle and in another pivotal position of the control member to release an arrested vehicle for travel, the said arm forming a locking element, the other arm of each control member being positioned to pivot, in response to an engagement with the vehicle, the respective control member into the position in which the locking element thereof releases an arrested vehicle, the said other arm of each control member forming a release element; the locking element of one control member following the release element of the other control member as seen in the respective direction of travel of the vehicles over the tracks of the switching section, thereby causing the release element in one track of the switching section, upon engagement of the said element by a vehicle, to pivot the locking element in the other track of the switching section into the release position for release of a vehicle arrested by the said locking element.

2,664,832

COVER CONSTRUCTION FOR HOPPER CARS

James S. Swann, Homewood, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application April 4, 1951, Serial No. 219,141
8 Claims. (Cl. 105—377)



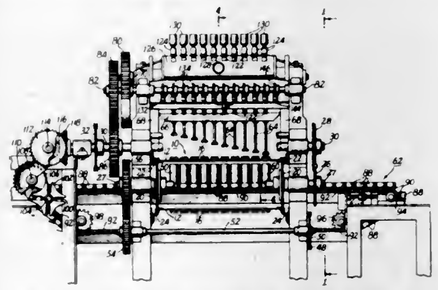
1. In a railway car structure, spaced side posts, a side plate member comprising a main vertical portion secured to the upper margin of said side posts, an inwardly extending web portion the tops of said posts extending in substantially the plane of said web portion, a downwardly extending flange portion, and a reflange extending to and secured to the main portion, a hatch frame located adjacent said side plate member, a wall of said hatch frame having an outstanding flange resting upon and secured to said side plate web portion.

2,664,833

MACHINE FOR FORMING AND PACKING BLANKS OF DOUGH

Lowell Armstrong and Lively B. Willoughby, Louisville, Rogers C. B. Morton, Prospect, and Harlan How, Louisville, Ky., assignors, by mesne assignments, to Pillsbury Mills, Inc., a corporation of Delaware

Application February 10, 1950, Serial No. 143,428
12 Claims. (Cl. 107—6)



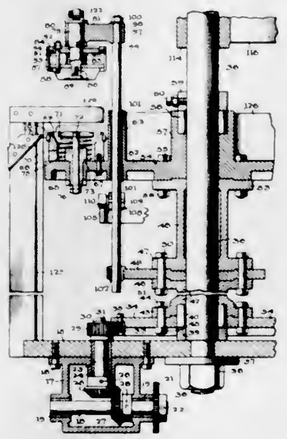
1. A machine for forming and packing blanks of dough comprising a movable carrier adapted to support a sheet of dough and having a plurality of openings arranged in generally longitudinal and transverse rows, means for driving said carrier intermittently, a support for containers extending generally transversely of said carrier on the side of said carrier opposite to that upon which said sheet of dough is supported and adapted to support at least one transverse row of containers in line with the openings in an equal number of transverse rows of said openings, a plunger assembly mounted adjacent said carrier on the same side as that upon which said sheet of dough is supported and having a plurality of plungers aligned with the openings in said transverse rows, means for driving said plunger assembly relatively to said carrier and to said support during the intervals when said carrier is stationary to cause said plungers to pass through said openings and press blanks of dough from said sheet through said openings into said containers so that said containers may be moved incrementally across said machine to receive a number of said blanks, with said plungers and said carrier being so arranged that the minimum spacing between the adjacent end of the plunger and the bottom of the containers is graduated from one side of the machine to the other whereby as said containers are moved transversely of said machine and receive a number of said blanks, said plungers carry said blanks to successively higher positions within said containers.

2,664,834

APPARATUS FOR FORMING EDIBLE RECEPTACLES

James Balton, Baltimore, Md., assignor to Maryland Baking Company, Inc., Baltimore, Md., a corporation of Maryland

Application August 6, 1951, Serial No. 240,558
12 Claims. (Cl. 107—15)



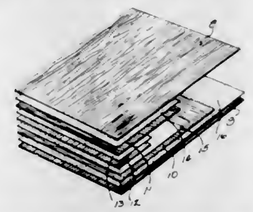
1. An edible receptacle forming apparatus having a rotatable supporting ring member, a die member mounted on said ring, a plurality of spaced guide members formed on said ring adjacent said die member, a rotatable guide plate disposed beneath said ring member, said guide members and guide plate having aligned apertures formed therein, a plurality of rods slidably mounted in the apertures formed in said guide members and guide plate, a second die member carried by said rods, a cam track disposed between said ring member and guide plate and means secured to said rods and engageable with said cam track for moving said second die member into and out of engagement with said first die member.

2,664,835

BUILDING SURFACING MATERIAL

Clarence T. Sorensen, Lakewood, Ohio

Application August 11, 1948, Serial No. 43,738
4 Claims. (Cl. 108—8)



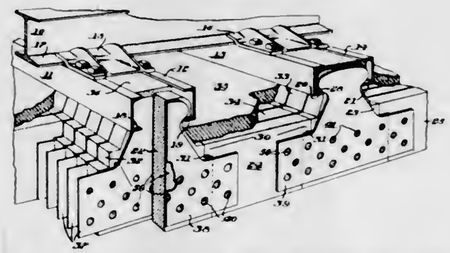
1. As a new article of manufacture, a building surfacing unit comprising five plies and including two outer plies substantially coextensive in area with the external dimensions of said unit, a central ply substantially equal in length to one dimension of said unit, its other dimension being only about one-fourth the corresponding dimension of said unit, a first intermediate ply between said central ply and one of said outer plies corresponding in length to one dimension of said unit, its width being approximately one-half that of the corresponding dimension of said unit, a second intermediate ply between said central ply and the other outer ply, the second intermediate ply corresponding in length to said one dimension of the other and corresponding in width to about three-fourths of the said corresponding dimension of said unit, and a synthetic resin adhesive bonding the several plies to each other and at least partially impregnating plies of said unit.

2,664,836

SUSPENDED ROOF STRUCTURE FOR FURNACE HEATING CHAMBERS

John Rawlings, Swissvale, Pa., assignor of one-half to Ralph T. Hadley, Sharon, Pa.

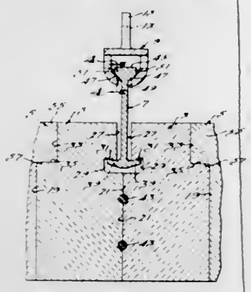
Application December 31, 1948, Serial No. 68,512
8 Claims. (Cl. 110—99)



1. A top structure for a heating chamber comprising a cover of refractory blocks extending generally horizontally over the chamber, a supporting structure extending generally over the blocks, at least some of the blocks each having an upward extension in supported engagement with the supporting structure and having a vertical face along the block and its upward extension closely opposed to a like face of a like block, and single pieces of substantially unoxidized sheet metal sandwiched and bonded on both sides in air-tight relation between such opposed faces of adjacent blocks substantially from top to bot-

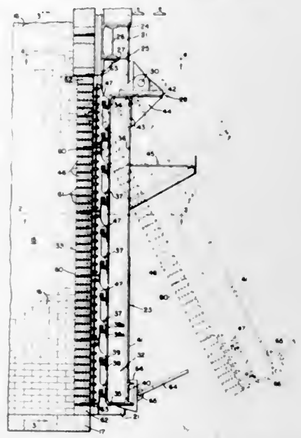
tom of the blocks and their upward extensions, whereby the metal pieces prevent lower portions of blocks to which the pieces are bonded from dropping into the heating chamber after such lower portions become cracked away from their supporting upward extensions during operation of the chamber.

2,664,837
SUSPENDED FURNACE ARCH
Robert A. Banck, Detroit, Mich., assignor to Bigelow-Liptak Corporation, Detroit, Mich., a corporation of Michigan
Application August 12, 1950, Serial No. 179,047
2 Claims. (Cl. 110—99)



1. In a roof construction, the combination of a plurality of parallel support bars, pairs of tile beneath the bars and extending parallel thereto to form pairs of rows of tile beneath each bar, a common hanger for each pair of tiles, said bars having openings in the bottoms thereof and upwardly presenting surfaces on opposite transverse sides of the openings that are inclined upwardly and outwardly from said openings, said hangers extending upwardly through said openings and having shouldered heads formed on inclines similar to that of said surfaces, said shouldered heads resting on said surfaces and being in one horizontal direction of greater transverse width than the opening in the bars but of less transverse width than the interiors of the bars, and being in another horizontal direction of narrower transverse width than the openings in the bars so that the hangers may be turned and passed through the openings to disconnect them from the bars, said hangers having shank portions extending downwardly from the shouldered heads through the openings in the bars and being of less thickness than the openings in all transverse dimensions, the tiles in said pairs being of substantially identical shape but having the sides transverse to said bar facing in opposite directions, one of the tile sides transverse to the bar having a keyway formed therein and the opposite side having a key formed thereon adapted to fit in said keyway so that the key on one tile is fitted in the keyway of an adjacent tile, the outer top corners of said tiles, with respect to said bars, being cut out to provide offsets having upwardly presenting shoulders, and tiles intermediate adjacent bars having downwardly presenting shoulders resting on said upwardly presenting shoulders so that the tiles are wholly supported thereon, said intermediate tiles having complemental keys and keyways formed therein on opposite sides transverse to said bars so that the keys and keyways on adjacent intermediate tiles are interlocked, the tiles in said pairs contacting each other along the lower portion of a vertical face on each tile, the upper portions of said vertical faces being spaced inwardly from the lower portions, each of the tiles in said pairs having undercut faces upwardly and outwardly inclined from said upper portions of the vertical faces, said shank portions of the hangers extending downwardly between said upper portions and being spaced substantially therefrom, and flanges on the lower end of said shank portions extending outwardly and inclined upwardly from the sides of the hanger in the same vertical plane as the maximum dimension of the hanger head, said flanges engaging said undercut faces so that the reaction forces thereof urge the tiles in each pair toward their contacting vertical faces.

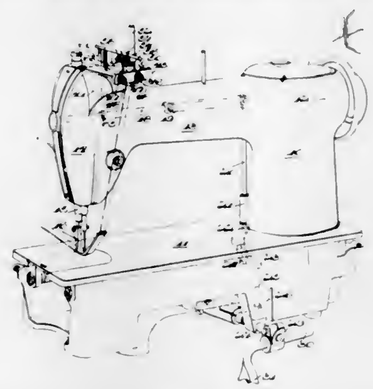
2,664,838
PERMANENT HINGED BULKHEAD
George C. Sorensen, Houston, Tex., assignor to M. H. Detrick Company, Chicago, Ill., a corporation of Delaware
Application March 12, 1951, Serial No. 215,079
6 Claims. (Cl. 110—173)



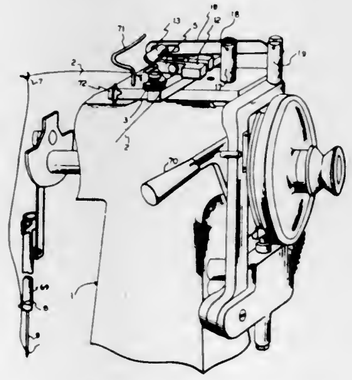
1. A hinged bulkhead for furnaces comprising a steel frame, pivot means adjacent a margin of the frame for hingedly mounting the frame to swing about a fixed axis between open and closed positions, brick holding members, heat resistant brick mounted thereon, and means between the inside face of said frame and said holding members for mounting said brick holding members on said frame in spaced relation to the inside face thereof, said brick forming a wall spaced from the inside face of said frame and completely lining said face thereof.

2,664,839
TAPE TENSIONING ATTACHMENT FOR SEWING MACHINES
Rufus Dudley Cummins, Harrodsburg, Ky.
Application September 14, 1951, Serial No. 246,651
4 Claims. (Cl. 112—152)

1. The combination with a sewing machine having a head, a supporting arm and a control lever and linkage system for raising the presser-foot upon application of force by the operator, of a presser-foot having an upwardly and forwardly projecting tape guide tube thereon, a tape guiding and tensioning unit for attachment at the top of the machine head in lateral alignment with said presser-foot and including a biased plate for engaging and tensioning the tape, mechanism including a lever having an end movable to engage said biased plate and move it against the bias to release the tape tension of said unit, and a strut connecting said tension releasing lever and the control lever for actuation by said control lever and linkage to effect said tension release.

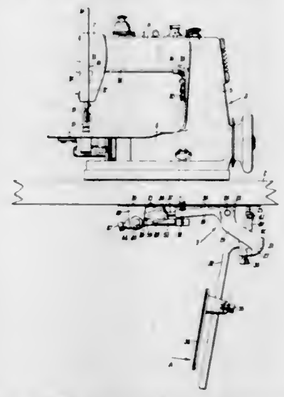


2,664,840
SEWING MACHINE THREAD CONTROL
Michael Joseph, West Roxbury, Mass.
Application May 10, 1949, Serial No. 92,290
8 Claims. (Cl. 112—219)



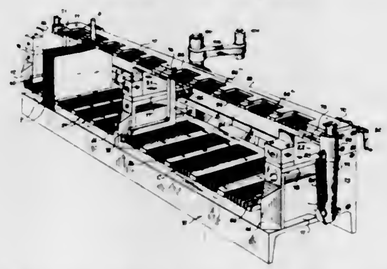
1. In a device for stopping the operation of a sewing machine upon the breaking of a sewing thread of the machine, a driven shaft having a clutch plate keyed for a small longitudinal motion with respect thereto, a normally free running driving pulley concentrically mounted on the driven shaft and having a surface in opposed position to said clutch plate, an operating cam plate concentric with said driven shaft and manually positioned for engaging said clutch plate with said opposed surface of said pulley, latch means retaining said cam plate under spring tension in said manually placed position, means operated by the breaking of the thread for releasing said cam plate and permitting said clutch to move axially on said driven shaft out of engagement with the opposed surface of said pulley, and means positioned upon the motion of the cam plate to engage said clutch for stopping the rotation of the driven shaft.

2,664,841
PRESSER LIFTER ACTUATING MECHANISM FOR SEWING MACHINES
Arthur N. Hale, Stratford, Edward L. Koenig, Westport, and William J. Edwards, Stratford, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application February 27, 1952, Serial No. 273,602
5 Claims. (Cl. 112—237)



1. A knee-shift device for a sewing machine comprising a base plate, a pair of opposed apertured ears struck from said base plate, a pivot bolt journaled in said apertured ears, a rod pivoted to said base plate by said pivot bolt, a lever rigidly associated with said rod to be moved thereby upon movement of said rod about said pivot bolt, a second pair of opposed apertured ears struck from said base and providing spaced bearings, a rock-shaft rotatably and slidably journaled in said second pair of apertured ears substantially parallel to said pivot bolt, an arm carried by said shaft and adapted to be operatively associated with the presser bar mechanism of a sewing machine for raising and lowering the same upon oscillation of said shaft, a member projecting substantially perpendicular from said shaft and releasably fixed thereto in adjusted position longitudinally thereof, and a ball and socket joint between said lever and said member.

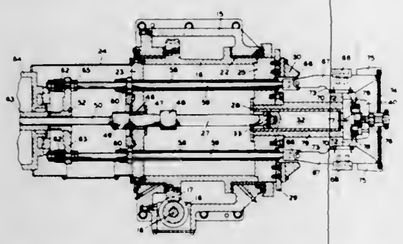
2,664,842
BATTERY BURNING RACK
Henry W. Lormor, Shaker Heights, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application August 31, 1949, Serial No. 113,275
6 Claims. (Cl. 113—59)



1. A storage battery plate rack comprising a base having a surface adapted to support a plurality of battery plates, a unitary member com-

prising two tiered combs arranged in spaced relation with one another and supported above said surface and adapted to hold battery plates edgewise for support by said surface, means detachably supporting said member in operative relation to said base and for relative movement with respect thereto, and mechanism carried by said base for raising and lowering said member relative to said base.

2,664,843
SUPPORTING MECHANISM FOR ROTATING AXLE HOUSINGS FOR WELDING
George L. Turner, Buchanan, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application September 9, 1949, Serial No. 114,774
2 Claims. (Cl. 113—59)



1. Means for supporting and clamping reinforcing rings to the side faces of the banjo portion of an axle housing comprising a fixed housing, a drum rotatably journaled therein and including a forward extension, a set of radially movable circumferentially spaced and axially extending shoes carried by said forward extension, guide means carried by said extension at the ends of said shoes to restrain axial movement of said shoes, an axially shiftable rod, cam means between the one end of said rod and said shoes whereby upon axial movement of said rod said shoes are moved radially outwardly into engagement with the inner peripheral portions of the rings and banjo portion to center the same, hydraulic piston and cylinder assembly means for effecting selective axial movement of said rod, a set of clamp members arranged intermediate of said shoes, a plurality of axially shiftable bars with one being secured to each clamp member, cam means between the forward extension and the clamp members whereby upon axial movement of said bars said clamp members are moved radially outwardly beyond said shoes and axially toward said drum member so that the rings and banjo portion may be clamped between said drum member and said clamp members, and hydraulic piston and cylinder means for effecting selective axial movement of said bars.

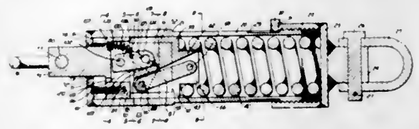
2,664,844
SOLDERING DEVICE
Bruno Siegrist and Charles Wakker, Geneva, Switzerland, assignors to Usine Genevoise de Degrossissage d'Or, Geneva, Switzerland, a firm
Application April 17, 1951, Serial No. 221,459
Claims priority, application Switzerland April 21, 1950
1 Claim. (Cl. 113—110)

A solderable connector for wires and the like adapted grippingly to engage the ends of said wires for holding said wires while the wires are soldered to each other and to said connector, comprising an integral flexible unit formed from a malleable plate element bent to define an interior axial chamber for reception of the ends of the wires, said plate element having a higher melting point than solder but being bendable into gripping engagement with the wires to be soldered, said plate having adhered to its exterior



surface a layer of solder and said plate and said solder being formed with a plurality of registering openings spaced about the periphery of the chamber and communicating with the chamber of said unit for the passage of solder from said layer into said chamber for contact with the wires therein.

2,664,845
LINE TENSION SIGNAL
Allen F. Rhodes and William S. Bachman, Houston, Tex.
Application January 8, 1951, Serial No. 205,016
12 Claims. (Cl. 116—67)



1. In combination, means to connect one member to another to transmit tension therebetween including elastic signal actuating means resistant to deformation with a force proportional to a function of the deformation, means to impose on the signal actuating means a force proportional to a function of the line tension, the last said means including trip means disconnecting the force imposing means upon predetermined deformation of the signal actuating means, means connected to the signal actuating means to produce a signal when said trip means has disconnected said force imposing means, elastic reset means resisting deformation with a force proportional to a function of the deformation, means to apply to the reset means a force proportional to a function of the line tension, and means connecting the reset means to the trip means to reconnect the force imposing means to the signal actuating means upon reduction of line tension, said connecting means continuing to function after the line tension has surpassed the point required to actuate said signal.

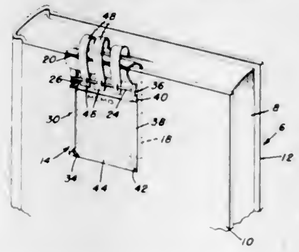
2,664,846
LIQUID LINE INDICATOR
Robert A. Gray, Jr., Port Huron, Mich., assignor to Mueller Brass Company, Port Huron, Mich., a corporation of Michigan
Application November 27, 1951, Serial No. 258,409
7 Claims. (Cl. 116—117)



1. A fluid line indicator comprising first member having a passageway extending there-

through and having an end portion, said member having an aperture through a wall thereof opening into said passageway, a second member having a passageway and having an end portion, said end portions being constructed to be telescoped together, lost-motion locking means holding said telescoped end portions together and permitting limited relative movement therebetween, a transparent tubular member within said first member passageway having an intermediate portion viewable through said aperture, and means immovably securing and sealing one end portion of said tubular member to said first member and immovably securing and sealing the other end portion of said tubular member to said second member and spacing said first and second members to an intermediate position of said lost-motion means whereby the distance between said first and second members throughout the range of said lost-motion means by any change in length of said tubular member is determined solely by said transparent member.

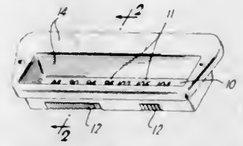
2,664,847
BOOKMARK WITH MARKER RIBBON
Johnnie A. Orman, Gardena, Calif.
Application August 17, 1951, Serial No. 242,284
2 Claims. (Cl. 116—119)



1. In a construction of the class described, a flat panel having means for attachment of the same to a portion of a book, said panel being provided along one marginal edge portion with a bearing, being provided on an opposite marginal edge with a keeper, an L-shaped pin having a safety-type pin extending across and in close proximity to one face of the panel and having a free terminal portion releasably engaged with said keeper, having a limb portion forming an attaching and journaling member, the latter being mounted for oscillation in said bearing, said limb portion being connected with said pin by way of a junctural spring coil, said limb portion having a free laterally directed end portion, the latter directed toward and bearing directly against said panel and serving to stress said spring coil and to act on the latter and pin to keep the pin in yieldable engagement with said keeper, and marker ribbons attached at corresponding ends to said pin.

2,664,848
DIAL
Edgar K. Nauth, Kenmore, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application December 4, 1950, Serial No. 199,080
5 Claims. (Cl. 116—124.4)

1. A dial comprising a planar section of transparent material having a plurality of lenticular elements formed along one edge thereof to direct light edgewise and substantially uniformly into said section from a relatively concentrated light source positioned approximately in the plane of



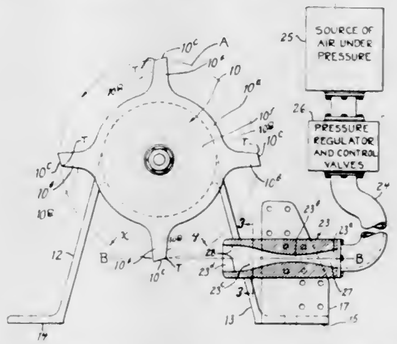
said section but spaced from said one edge thereof.

2,664,849
INDICATING INSTRUMENT WITH DIAL PLATE, ADAPTED TO BE ILLUMINATED
Friedrich K. H. Nallinger, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart Unterturkheim, Germany
Application August 4, 1950, Serial No. 177,578
Claims priority, application Germany August 5, 1949
11 Claims. (Cl. 116—129)



1. An indicating instrument comprising a casing, an at most somewhat translucent dial plate closing one side of the casing and having transparent indices thereon, an indicator movable over the dial plate, first means inside the casing behind the dial plate for illuminating the dial plate and the indices from behind, and additional means for illuminating the indicator from the side in conjunction with said first means.

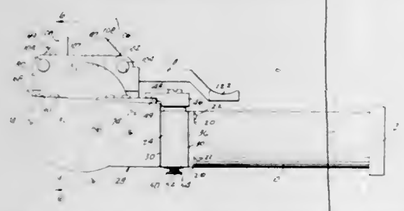
2,664,850
METHOD AND APPARATUS FOR PRODUCING SHOCK WAVES
Franklin S. Smith, Hamden, Conn.
Application November 26, 1949, Serial No. 129,655
14 Claims. (Cl. 116—137)



1. An apparatus for generating shock waves comprising an air-discharge nozzle having an inlet for receiving air and having an outlet for discharging air in a stream of substantial cross-section, a rotor having a projecting part thereon radially spaced from its axis and movable, upon rotation of the rotor, in a circular path, means mounting said nozzle adjacent said rotor and

with its axis of air discharge in line with the plane of said circular path and with a substantial arcuate portion of said path intersecting the cross-section of the discharged air stream, means for supplying said nozzle at its inlet end with air under pressure and thereby to coact with said nozzle to effect high velocity of air discharge therefrom, and means for driving said rotor at a speed to give said projecting part thereon relatively high velocity and in a direction to move through said arcuate portion of its circular path in a direction opposed to the direction of movement of air in said stream.

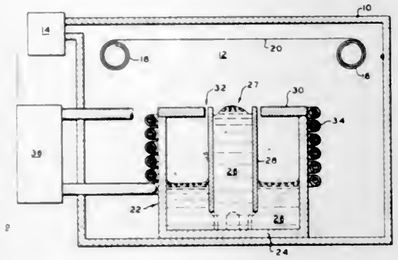
2,664,851
DEVICE FOR APPLYING ADHESIVE SUBSTANCES TO TAPELIKE ARTICLES
Elmer A. Hillard, Bristol, Tenn.
Application April 11, 1952, Serial No. 281,848
3 Claims. (Cl. 118—12)



1. A device for coating an adhesive substance upon tape-like articles, comprising: a well adapted as a container for an adhesive substance; a wheel support assembly removably mounted in said well and including fixedly connected, spaced side plates; an applicator wheel rotatably mounted on and between the side plates in position to be partially immersed in said substance, for coating of the periphery of the wheel with the adhesive substance responsive to rotation of the wheel; a guide plate disposed adjacent one face of the wheel and supported upon one of the side plates for sliding movement in a plane normal to the axis of rotation of the wheel; a spring held under compression between the guide plate and said one side plate tensioned to normally urge the guide plate away from said axis; a control handle pivotally connected to said one side plate and operatively connected with the guide plate to shift the same toward said axis against the pressure of the spring; and guide pins affixed to the guide plate in close proximity to the wheel and spaced circumferentially of the wheel in parallelism with said axis, said guide pins being shiftable, responsive to sliding movement of the guide plate, toward and away from the wheel to operative and inoperative positions respectively and being arranged, when adjusted toward the wheel, for guiding of an article to be coated into engagement with said periphery, thereby to effect rotation of the wheel and coating of the article responsive to movement of said article in the direction of its length while in the wheel engaging position thereof.

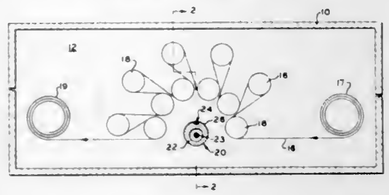
2,664,852
VAPOR COATING APPARATUS
Earl E. Chadsey, Jr., Newton, Mass., assignor to National Research Corporation, Cambridge, Mass., a corporation of Massachusetts
Application April 27, 1950, Serial No. 158,423
1 Claim. (Cl. 118—49)

Apparatus for coating a heat-sensitive substrate with aluminum by vacuum-evaporation of said aluminum and condensation of said aluminum upon said substrate, said apparatus comprising means defining a vacuum-tight chamber, a container mounted in said vacuum chamber for confining molten aluminum, a heater surrounding said container for melting aluminum in said container and maintaining said aluminum at a temperature not much in excess of the melting point thereof, a heat-resistant carbon tube mounted vertically in said chamber for confining high-temperature molten aluminum within said vacuum chamber so that vapors from said high-temperature aluminum may be condensed on said substrate, said tube having an interior surface



stratum comprising a carbide of the class consisting of the carbides of the metals titanium, zirconium, hafnium, vanadium, columbium and tantalum, a second heater for heating molten aluminum at the top of said tube to a temperature on the order of 1300° C. and above, said tube extending below the surface of the molten aluminum in said container, pneumatic means for forcing aluminum up said tube from said container to the top of said tube, a radiation shield between the upper portion of the outer surface of said tube and said substrate for preventing radiation from said tube to said substrate, and means for moving said substrate past the top of said tube.

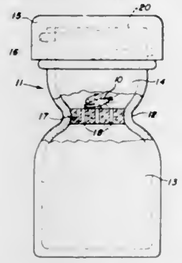
2,664,853
APPARATUS FOR VAPOR COATING
Frederic W. Schuler, Cambridge, Mass., assignor to National Research Corporation, Cambridge, Mass., a corporation of Massachusetts
Application May 12, 1952, Serial No. 287,355
3 Claims. (Cl. 118—49)



1. Apparatus for coating a substrate with aluminum by vacuum evaporating said aluminum on said substrate, said apparatus comprising a vacuum chamber, means providing a source of aluminum in said vacuum chamber, means for evacuating said chamber, an elongated hollow member having an elongated groove along the top thereof positioned within said chamber, said member having a surface wettable by molten aluminum, means for feeding aluminum from said source thereof to said hollow member at a rate sufficient to keep said groove substantially completely filled with molten aluminum, said wet-

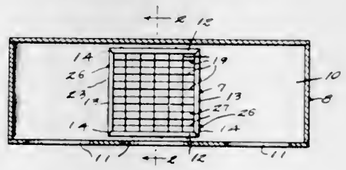
table surface on said member assuring coverage by molten aluminum of a substantial portion of said member in addition to said groove, a heater rod inside of said hollow member, means for electrically insulating said heater rod from said hollow member, means for supplying electric current to said heater rod to raise the temperature thereof to about 2000° C. and above, and means for passing said substrate over said member to coat said substrate with aluminum.

2,664,854
CONTAINER
Richard L. Talbot, Oshkosh, Wis.
Application September 21, 1948, Serial No. 50,309
2 Claims. (Cl. 118—417)



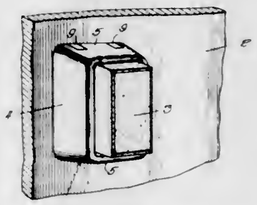
1. A device for covering the body of an object to be used as a fishing lure to provide the body with a water proof coating comprising a container having upper and lower chambers, the lower chamber being of greater volumetric extent than the upper chamber, said chambers having between them a reduced portion of the body defining a separating plane between the chambers, a perforated device located substantially in the plane of said reduced portion to prevent objects located in the upper chamber from passing into the lower chamber, the upper chamber having a cover removably secured thereto and the lower chamber having a quantity of water proofing coating liquid therein of a volume greater than the volumetric space of the upper chamber whereby complete reversal of the position of the container will cause the liquid of the lower chamber to completely fill the other chamber so as to cause complete coverage of objects in said chamber by said liquid, said upper chamber having its upper end of greater cross sectional dimension than said neck portion so as to facilitate the positioning of a finger of an operator therein to facilitate removal of a coated object when the container has been restored to its initial upright position.

2,664,855
SANITARY NEST DEPOSITORY
Anna M. Drefke, Hackensack, Minn.
Application June 21, 1950, Serial No. 169,463
5 Claims. (Cl. 119—48)



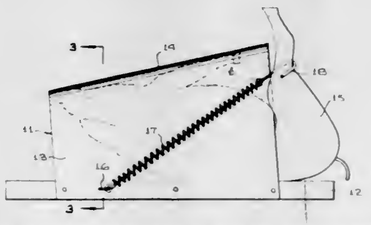
1. A sanitary laying nest comprising a frame having substantially parallel side walls and substantially parallel front and rear walls, two sets of ropes, a first set of ropes extending between the side walls and a second set of ropes extending between the front and rear walls and forming an open mesh hen supporting surface beneath and adjacent the open top of the frame, said ropes of each set being spaced apart a distance, slightly greater than the diameter of a hen's egg, a third set of ropes extending between and secured to said side walls substantially below the level of said rope mesh, said ropes of the third set being offset midway between the ropes of said first set of ropes whereby an egg dropping through any of the openings of the rope mesh will strike a rope of the third set and thus cushion its fall.

2,664,856
SALT CONTAINER
Robert G. Ferris, Harvard, Ill., assignor to Starline Inc., a corporation of Illinois
Application December 28, 1949, Serial No. 135,322
5 Claims. (Cl. 119—51)



1. A cast container of non-corrosive material which has a roughened base adapted to be secured adjacent a cow stall and to receive a salt block which has one of its upright faces provided with a shoulder, comprising: continuous upstanding end walls and side walls forming a rectangular frame, there being an opening at the base of an end wall adjacent a side wall which extends from the outer to the inner face of said end wall, a continuous undercut groove in said side wall aligned with a portion of said opening, and a drainage slot in the other end wall aligned with a portion of said opening; and a removable key member which may be inserted through said opening and extend beneath said undercut groove, said key member having a lateral projection at its top adapted to overlie the shoulder in a salt block in said frame.

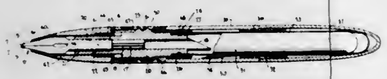
2,664,857
PIG CASTRATING HOLDER
Jack C. Miller, New Sharon, Iowa
Application December 14, 1951, Serial No. 261,645
2 Claims. (Cl. 119—103)



1. An animal-castrating holder comprising a baseboard, a hood secured on said baseboard, said hood having a sloping top wall and being open at its larger end to receive an animal disposed

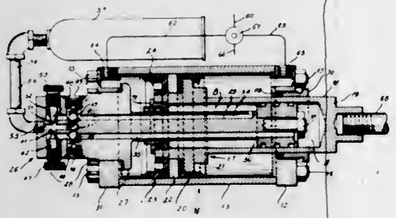
with its back on said baseboard, and a pair of flexible retaining members secured to respective opposite sides of the forward portion of the holder and being arranged to engage the hind legs of the animal and exert forward force on said hind legs urging the legs toward the rear edge of said larger end.

2,664,858
ADJUSTABLE LINE WIDTH WRITING FOUNTAIN PEN
Thomas W. Lepkowski, New York, N. Y.
Application May 6, 1950, Serial No. 160,465
6 Claims. (Cl. 120—42)



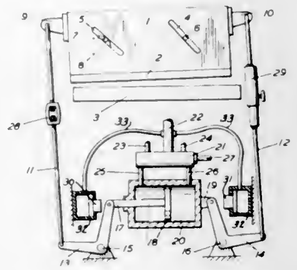
1. A writing pen, comprising a member having disposed at one end thereof a pen point longitudinally slit to provide juxtaposed nib divisions, a shell embracing said member and comprising a hood and a rotatable selector sleeve, operatively associated means on said member and said selector sleeve for axially displacing said member and the pen point carried thereon relative to said shell as said sleeve is rotated in either direction, said pen point being formed of resilient metal, the writing ends of the nib divisions being normally transversely and angularly spaced apart to form an inverted V, and means on said hood operatively associated with the nib divisions of said pen point for decreasing or permitting the increase of the transverse and angular spacing between the nib divisions of the pen point as said member is axially displaced, whereby to vary the width of the writing line of said pen point.

2,664,859
HYDRAULICALLY CONTROLLED FLUID DRIVEN RECIPROCATING ACTUATOR
Walter F. Green, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application September 11, 1950, Serial No. 184,214
5 Claims. (Cl. 121—38)



1. In a fluid pressure responsive device, a cylinder, a piston and hollow rod assembly reciprocable in said cylinder under the influence of a motive fluid for operating the device, a member fixed at one end of said cylinder, said member having a valve body integral therewith annd exposed at the end of said cylinder, a pilot rod extending into said cylinder from said member and into said hollow rod, said pilot rod being provided with passages therein opening into the hollow rod, a plunger on said pilot rod subdividing the space in the hollow rod into separate chambers each communicating with a passage in said pilot rod, said separate chambers and passages constituting portions of a substantially closed fluid containing system in which reciprocation of said piston and hollow rod effects a change in the relative volumetric capacities of said chambers in an inverse relation, separately adjustable valve means carried by said valve body in position to control the flow of fluid in each of said passages for imposing a restriction upon the flow of fluid in the passage from that chamber experiencing a decrease in volume, and separate valve means in said valve body adjacent said adjustable valve means for automatically bypassing said first mentioned valves and opening the passage through which fluid is directed to the chamber experiencing an increase in volume.

2,664,860
HYDRAULIC RAM MECHANISM
Francis Benjamin Levetus, Allesley, Coventry, England, assignor to The Keelavite Company Limited, Coventry, England, a company of Great Britain
Application October 16, 1950, Serial No. 190,263
Claims priority, application Great Britain October 17, 1949
5 Claims. (Cl. 121—38)

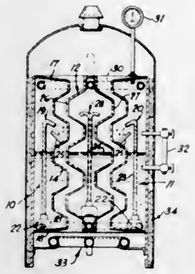


1. Hydraulic ram mechanism comprising an elongated operating member arranged for bodily movement in a plane, means for guiding the movement of said member in said plane, said means being capable of causing said member to rotate about an imaginary pivotal axis which is transverse to said plane and capable of movement with respect thereto, a floating cylinder, a piston within the cylinder, a source of hydraulic pressure and means for connecting the source to the cylinder so as to move the piston and cylinder axially relative to each other, and two linkages connecting the piston and cylinder respectively to the operating member at longitudinally spaced points, both said linkages acting on said relative axial movement of said piston and cylinder to move the operating member substantially in the same direction and subject to said guiding means.

2,664,861
STEAM BOILER
Carl Z. Alexander, Madison, N. J.
Application July 27, 1950, Serial No. 176,235
2 Claims. (Cl. 122—165)

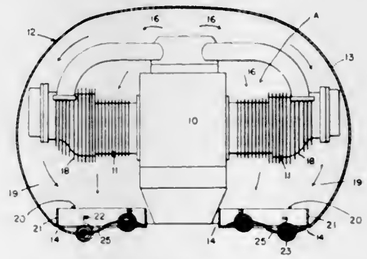
1. A steam boiler comprising a fire box, two outer and a central water section disposed above the fire box in spaced horizontal arrangement, the spaces between the sections communicating with the fire box and the opposed surfaces of the spaced sections being of wave form, the waves having crests and troughs in substantially horizontal arrangement and the crest and trough of each wave being flattened in substantially vertical planes, the flattened crests of the waves of the outer sections being aligned with each other and with the flattened troughs of the waves of

the central section, the troughs of the waves of the central section further forming constricted passageways therebetween in substantially vertical alignment, means for enclosing the water sec-



tions and the fire box, and a geyser tube disposed in each section for directing the water from the bottom thereof against the inner surface of a crest of a wave in said section above the water level.

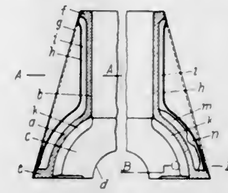
2,664,862
SHUTTER MOUNTING FOR ENGINE COOLING SYSTEMS
John L. Walker, Muskegon, Mich., assignor to Continental Motors Corporation, a corporation of Virginia
Application September 1, 1951, Serial No. 244,771
4 Claims. (Cl. 123—41.04)



1. In a cooling system for an internal combustion engine, comprising a shroud enclosing an engine and cooperating with the engine to provide an air duct through which a flow of air is conducted in heat transfer relation with said engine to cool same, an outlet opening for said air duct, shutters for said outlet opening, and means for pivotally supporting said shutters comprising a thermal responsive coil operable as the sole means for supporting said shutters and constructed to respectively unwind or wind up in response to an increase or decrease in the temperature of the air at said outlet opening to adjust said shutters.

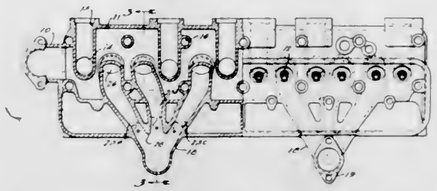
2,664,863
COOLING JACKET FOR INTERNAL-COMBUSTION ENGINES
Friedrich K. H. Nallinger, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application April 19, 1950, Serial No. 156,753
Claims priority, application Germany April 20, 1949
6 Claims. (Cl. 123—41.33)

1. Combustion engine casing having a crank case part provided with a cooling jacket and comprising a wall, which separates the crank case space from the cooling jacket, said wall being



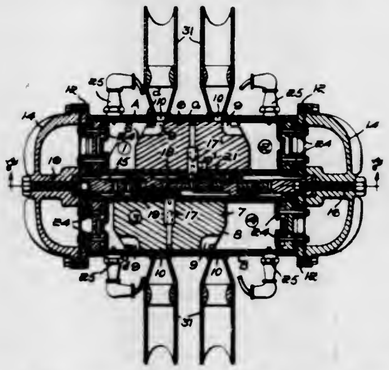
formed with an enlarged surface for increased heat transmission.

2,664,864
ENGINE HEAD
Robert P. Ernest, Wayne, Mich., assignor to Kaiser-Frazer Corporation, Willow Run, Mich., a corporation of Nevada
Application August 31, 1950, Serial No. 182,571
14 Claims. (Cl. 123—52)



1. An intake system for a multicylinder internal-combustion engine or the like, comprising a plurality of mixture distributing chambers in longitudinally spaced relation on the engine head, each of said distributing chambers being disposed substantially opposite the midpoint of a group of intake ports, means for mounting a carburetor on each of said distributing chambers to supply an air-fuel mixture thereto, and a plurality of passages of nearly equal length within said engine head and extending from each of said distributing chambers in generally radial relation, each of said passages connecting a distributing chamber with one of the intake ports in its corresponding group.

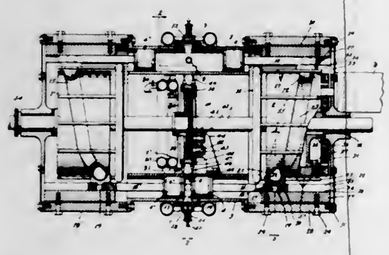
2,664,865
ENGINE
Samuel Eliot, Newton, Mass.
Application September 27, 1949, Serial No. 118,139
4 Claims. (Cl. 123—52)



1. In an internal combustion engine comprising a pair of cylinders positioned side by side in

spaced relation, a double ended piston in each cylinder, ignition means and fuel supply means at each end of each cylinder, an intake valve for each cylinder, a relative flat frame member positioned between said spaced cylinders, said frame members being formed with a pair of generally annular recesses in its opposite faces, a bearing stud carried by said frame member centrally of each annular recess, head castings connecting the ends of said cylinders, means securing the ends of the frame member to said head castings, meshing gears on said bearing studs, wrist pins projecting from the medial portion of each piston, and a crank connecting each wrist pin with a gear at points eccentric of the gear axis.

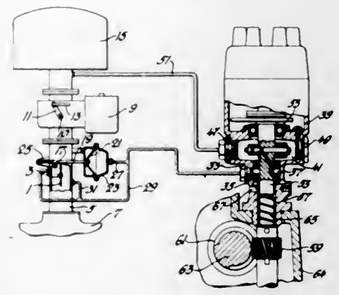
2,664,866
INTERNAL-COMBUSTION ENGINE
Frank L. Fulke, Terre Haute, Ind.
Application December 27, 1943, Serial No. 515,749
7 Claims. (Cl. 123—58)



1. In an internal combustion engine a powershaft, a plurality of cylinders arranged in an annular series about the axis of said powershaft, piston means for each cylinder reciprocable upon a line parallel to the axis of said powershaft, a ball for each piston means operatively connected to its piston means and engaging a continuous groove disposed upon the peripheral face of a flywheel keyed to said powershaft and further disposed in various planes laterally of said peripheral face, said groove being formed to provide an intake and power reach comprising a peripherally minor section inclining sharply in a direction parallel with the axis of said powershaft and a peripherally major section inclining less sharply in said direction, and being further formed with an exhaust and compression reach merging with said first-named reach and comprising a peripherally minor section inclining sharply in the opposite direction and a peripherally major section inclining less sharply in said last-mentioned direction, whereby the pace of each piston is changed during each stroke thereof.

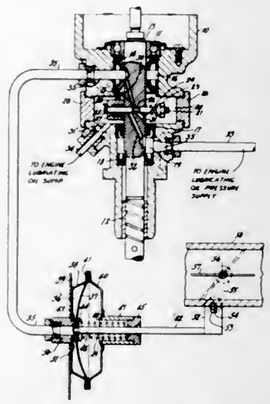
2,664,867
ENGINE GOVERNOR
Herman L. Hartzell and Argyle G. Lautzenhiser, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 14, 1951, Serial No. 210,872
15 Claims. (Cl. 123—103)

1. A control device for an internal combustion engine having an intake passageway, a valve therein, resilient means urging the valve to an open position, a suction actuated device in communication with the intake passageway and operatively connected to the valve for moving the valve toward the closed position, said control device comprising a control valve body having a pair of chambers therein, each chamber having a port in the wall thereof and a bore extending through the chambers, a shaft rotatable in the bore in accordance with the speed of the engine and having a main passage extending diametrically therethrough within one chamber and a branch passage leading therefrom to the other chamber, valve means adapted to close said branch passage from said main shaft passage, said valve means comprising a valve stem slidable



in the main shaft passage and having a centrifugal weight on one end and a groove spaced therefrom, resilient means urging the weight into contact with the shaft at one end of the main shaft passage and biased to position the groove in the stem in overlapping relation with the other end of the main shaft passage and with the adjacent end of the branch passage and means for placing one chamber port in fluid communication with the suction operated device and the other port serving as a fluid inlet port.

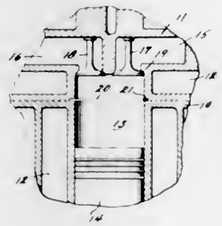
2,664,868
ENGINE GOVERNOR
Argyle G. Lautzenhiser, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 13, 1951, Serial No. 231,355
10 Claims. (Cl. 123—103)



1. In a speed controlling mechanism for an engine, a control valve housing having separate pressure supply, pressure relief and pressure controlling chambers, a shaft extending through the chambers and adapted to be rotated therein by the engine, said shaft having a bore extending diametrically through the shaft and separate pressure passages leading therefrom to each of the separate chambers, centrifugally unbalanced,

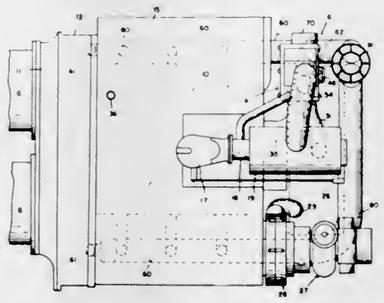
fluid pressure balanced valve means slidable in the bore of said rotatable shaft to establish fluid communication between the pressure controlling chamber and each of said other chambers through the shaft passages, and spring means normally positioning the centrifugally unbalanced valve means to establish fluid communication between the pressure controlling chamber and one of said other chambers and opposing movement of the valve means from the normal position to establish fluid communication between the pressure controlling chamber and the other chamber.

2,664,869
AUTOMOBILE VALVE PROTECTION PLATE
Herman F. McKenna, Williamstown, W. Va.
Application May 8, 1953, Serial No. 353,712
5 Claims. (Cl. 123—121)



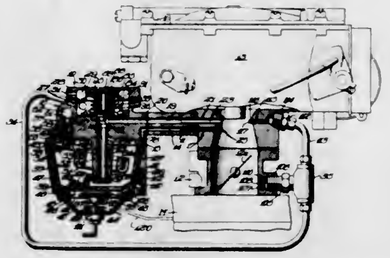
5. In an internal combustion engine, a cylinder bore, a valve chamber, a cylinder block defining said bore, a cylinder head mounted on said block and defining said valve chamber, a groove formed in said cylinder head around said cylinder bore, a protection plate inserted in said groove and interposed between said cylinder bore and said valve chamber, a piston in said bore, valves in said valve chamber, said protection plate comprising a plurality of crossed bars forming a lattice work, and a wider bar in said protection plate extending directly under the axial plane of the valve stems of said valves.

2,664,870
ENGINE CONTROL SYSTEM
William A. Wiseman, Muskegon, Mich., assignor to Continental Motors Corporation, Muskegon, Mich., a corporation of Virginia
Application September 1, 1951, Serial No. 244,803
9 Claims. (Cl. 123—122)



1. A power plant assembly comprising a multicylinder engine having a crankcase, an oil sump structure carried by said crankcase, a carburetor for said engine and exhaust manifold means for said engine, an air heater embodied in said power plant assembly and having a heat exchange unit, an auxiliary engine and blower driven thereby for circulating air to be heated to the heat exchange unit of said air heater, an exhaust gas air heater constructed to heat a supply of air conducted in heat exchange relation to said exhaust manifold means, an air distributing means associated therewith and having interconnected air ducts and outlet and inlet ports, one of said outlet ports connected with the carburetor air inlet and another outlet port connected with the crankcase interior, one of said inlet ports connected with hot air outlet of the air heater and another of said inlet ports connected with the hot air outlet of the exhaust gas air heater, thermal responsive means for controlling the flow of air through said air distributing means, said assembly constructed and arranged for operation to initially conduct the air heated by said air heater to the crankcase, means simultaneously conducting the exhaust gas from said air heater to the oil sump of said crankcase to heat the oil therein, said thermal means operable when the oil temperature reaches a predetermined degree to open said hot air conducting means to the carburetor, and second valve means operable in response to engine oil pressure upon starting of said engine in operation to close off the hot air supply to said engine crankcase.

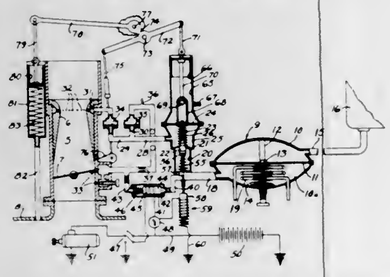
2,664,871
SUPPLEMENTAL FUEL FEED DEVICE
David E. Anderson, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application July 30, 1949, Serial No. 107,720
15 Claims. (Cl. 123—127)



1. A device for supplementing the fuel feed of a carburetor intake of an internal combustion engine comprising a housing defining a float chamber and having upper and lower substantially central bosses, aligned top and bottom bores extending through said bosses, a restricted orifice in said bottom bore, said top bore providing a discharge chamber at the upper end of said bottom bore, said housing having a discharge passageway in communication at one end with the fuel intake of the engine and the other end in communication with said discharge chamber, said housing having a first diaphragm-covered vacuum chamber subjected to carburetor Venturi vacuum and to engine manifold vacuum, a block connected to said first diaphragm and slidable in said top bore, said block having an end seatable against the top of said bottom bore to close the bore, spring means tending to move said end of the block away from said top of the bottom bore, a second diaphragm-covered vacuum chamber subjected to reduced pressure from said first vacuum chamber, a compartment in said housing above said second chamber and bottomed by the diaphragm of said second cham-

ber, said compartment being in flow communication with said float chamber and with said fuel intake of said engine, a spring in said second chamber urging said diaphragm cover thereof toward said compartment to decrease the effective size of said compartment, and a check valve permitting filling of said compartment from said float chamber when the diaphragm cover of the second chamber is depressed against the action of said spring in response to reduction in pressure in said second chamber and effective to close said compartment to permit the diaphragm cover of the second chamber to force fluid from the compartment into said fuel intake of the engine when said spring flexes said diaphragm cover of the second chamber to decrease the size of said compartment.

2,664,872
FUEL CONTROL SYSTEM
George R. Ericson, Kirkwood, and Irven E. Coffey, St. Louis, Mo., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application January 15, 1946, Serial No. 641,208
17 Claims. (Cl. 123—179)



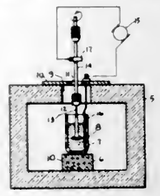
1. In combination with an internal combustion engine having a starter and an induction conduit, a source of highly volatile fuel supply, passage means connecting said source to said conduit, a pair of valves controlling said passage means, a device operable responsive to suction conditions in said passage and conduit for opening one of said valves, and means operatively connecting said starter and said valve and actuatable upon operation of said starter for opening the other valve.

2,664,873
COATED METAL PRODUCT AND METHOD OF PRODUCING SAME
Robert Graham, Kilmarnock, Scotland, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 1, 1947, Serial No. 765,648
Claims priority, application Great Britain August 9, 1946
20 Claims. (Cl. 123—188)



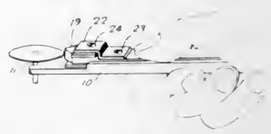
2. A coated engine valve comprising a body made essentially of steel and having a protective coating at least on that part which is exposed to attack by the products of combustion of engine fuel, said coating containing at least 55% aluminum and between 30 and 45% nickel and being formed and intimately bonded to the steel by interdiffusing an outer metal layer consisting predominantly of aluminum with a thin, intermediate layer consisting predominantly of nickel by passing an electric current therethrough at a temperature above about 600° C.

2,664,874
COATED METAL PRODUCT AND METHOD OF PRODUCING SAME
Robert Graham, Kilmarnock, Scotland, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application January 13, 1948, Serial No. 2,141
Claims priority, application Great Britain June 23, 1947
22 Claims. (Cl. 123—188)



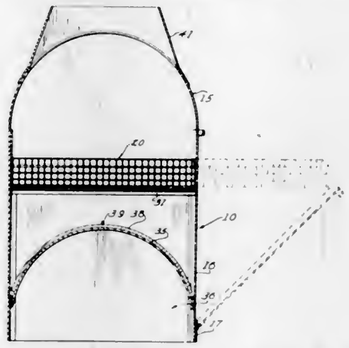
3. A coated engine valve comprising a body made of a base metal and having a protective coating on at least that part thereof which is exposed to attack by the products of combustion of engine fuel, said coating being the interdiffusion product with said base metal of a thin external layer containing from 50% to 70% of aluminum, from 5% to 45% of nickel, and from 5% to 35% of cobalt, said coating being resistant to attack by lead compounds present in products of combustion of motor fuels containing tetraethyl lead.

2,664,875
WHEEL DRESSER
William H. Koch, Evansville, Ind., assignor to Indian Archery & Toy Corporation, Evansville, Ind., a corporation of Indiana
Application October 15, 1949, Serial No. 121,596
6 Claims. (Cl. 125—11)



1. A tool for wheel dressing, including a rectangular bar to be held in the hand and having a guide notch at one end thereof, a longitudinal slideway formed in one side of said bar, a slide in said slideway reciprocable toward and from said notch, an enlarged head portion at the end thereof adjacent said notch, an angular recess in said head portion, a dressing element received in said recess and formed with a protruding cutting edge underlying said notch in a longitudinal sense, and a retainer plate removably fastened to said slide and partly overlying said dressing element, said retainer plate and said enlarged head presenting an abutment for the finger operation of said slide to urge said dressing element toward said notch.

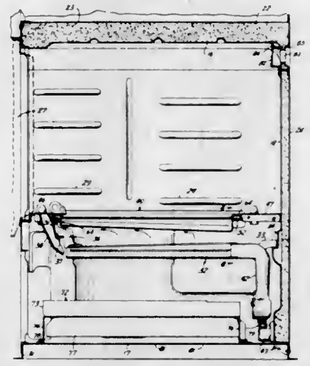
2,664,876
PORTABLE COOKING DEVICE
John Barker, Centralia, Ill.
Application July 18, 1950, Serial No. 174,521
2 Claims. (Cl. 126—25)



1. A portable cooking stove comprising a base, a pair of vertically disposed end walls contiguous to each end of said base and having their lower ends secured thereto, a first side wall arranged contiguous to one side of said base intermediate said end walls and secured thereto, a closure hood resting upon the upper ends of said end walls and one side wall and secured thereto and cooperating with said base and said end walls and side wall to form a stove body having an open side, a second side wall disposed within the open side of said stove body and mounted on the outer side of said base for swinging movement into and out of a supported position intermediate said end walls, a horizontally disposed tray positioned within said stove body, horizontal tracks respectively adjacent each end wall and coextensive therewith, said tray being mounted on said tracks for horizontal extensile and retractile movement with respect to said open side, a track member having inturned flange elements secured to the inside wall surface of said second side wall and extending at right angles to the rotational axis of said second side wall, and a T-shaped lug on said tray secured to the edge thereof adjacent said open side and having its head slidably engaged in said track member and being freely movable therein for effective extensile movement of the tray in response to outward swinging movement of said second side wall, said stove body having an arcuate roof positioned therein intermediate said tray and said base and secured to said body, said roof having one end contiguous to and spaced from one end wall of said body and cooperating with said base and the adjacent portions of said side and end walls to form a combustion chamber.

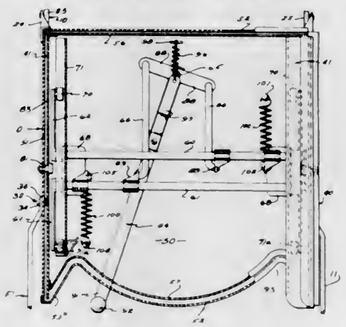
2,664,877
OVEN CONSTRUCTION FOR RANGES
Robert C. McLaughlin and Harold H. Ring, Rockford, Ill., assignors to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Application June 22, 1950, Serial No. 169,598
8 Claims. (Cl. 126—39)

1. The combination in a gas range of a compartment formed by spaced sides, a front, a back, a top, and a bottom, said front having spaced openings, intermediate wall means between said openings in substantially parallel relation with said top and bottom of said compartment to divide the compartment into a bake oven and a broiler oven, doors for said openings, said intermediate wall means having apertures adjacent the front and back effecting communication between the ovens and having its side edges spaced from the sides of said compartment to define elongated passageways adjacent the sides effecting communication between the ovens, said intermediate wall means having its surface adjacent the broiler oven presenting an imperforate wall portion sloping downwardly from the side edges toward the center of the intermediate wall means and downwardly from the front to a location adjacent the back of the compartment, a burner for heating the compartment positioned with all



of its flame ports disposed immediately below said intermediate wall means, said burner extending along the centerline of said compartment to have the products of combustion and heat from its flame ports deflected by said imperforate wall portion of the intermediate wall means generally outwardly from the center to the sides and forwardly from the back to the front of the compartment to effect a uniform heat distribution throughout the bake oven, and flow control means adjacent the top of the compartment for exhausting the products of combustion from the compartment.

2,664,878
ADJUSTABLE BROILER FOR COOK STOVES
Wilbur G. Durant, Pasadena, Calif., assignor to O'Keefe & Merritt Company, Los Angeles, Calif., a corporation of California
Application October 28, 1949, Serial No. 124,189
6 Claims. (Cl. 126—41)



2. In combination, a stove broiler, a base mounted in the broiler to be movable horizontally back and forth therein, a grid carrying frame, and an operating mechanism mounting the frame from the base for adjustment vertically relative thereto including, two spaced parallel shafts with lateral projections and rotatably mounted in the

base to extend transversely of the direction in which the base moves horizontally, arms on the ends of the shafts and supporting the frame, an operating lever with a cross arm and pivotally carried by the base at the innermost portion thereof to swing horizontally, links connected to the arm of the lever and extending toward the forward end of the base, arms fixed on the shafts intermediate their ends and connected to the links, and counterbalancing springs anchored to the base and attached to the projections on the shafts.

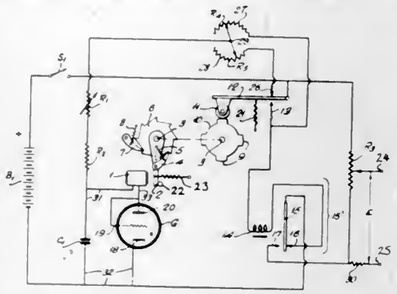
2,664,879
INSTRUMENT FOR TESTING pH VALUES OF BODY CANAL LIQUIDS AND COLOR COMPARATOR FOR USE THEREWITH
Lowell Macomber Hardy, Portland, Maine
Application September 8, 1950, Serial No. 183,774
6 Claims. (Cl. 128—2)



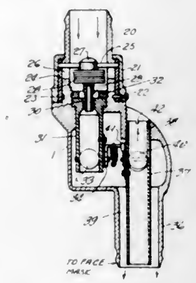
4. An instrument for use in testing the pH value of body canal liquids with a paper strip sensitized to change color, when wetted by a liquid, to indicate its relative acidity or alkalinity, said instrument comprising a head including a convex contact portion, a supporting shank for said head, means associated with said head to receive the ends of said strip thereby to lock it against said contact portion, and a unit, said unit including a casing having a window adjacent the rear end of said head, and a member movably mounted in said casing and having a plurality of colored panels disposed to be selectively exposed through said window as said member is moved and means detachably connecting said casing to said shank.

2,664,880
ELECTRIC STIMULATOR FOR ARTIFICIAL RESPIRATION
Nathaniel B. Wales, Jr., Morristown, N. J.
Application November 23, 1951, Serial No. 257,793
7 Claims. (Cl. 128—24.1)

2. In an electro-phrenic stimulator, the combination comprising a source of potential, a timing capacitance, an adjustable timing resistance, a first adjustable ratio resistor, a second adjustable ratio resistor, circuit means for charging said capacitance from said source of potential through said timing resistance and one of said ratio resistances, a gaseous discharge tube, circuit means for applying the rising potentials appearing across said capacitance to said tube whereby to discharge said tube, a magnetic actuator, means responsive to the discharge of said tube for energizing said magnetic actuator, a two position switch, means responsive to the energization of said magnetic actuator for displacing said switch to its opposite position for each such energization, circuit means connecting said switch and said ratio resistors in such a way that said capacitance is charged through said first ratio resistor or said second ratio resistor according as said switch is in its obverse or reverse position respectively, a pair of output terminals, a generator of oscillatory pulses of potential, and means responsive to one position of said switch for impressing a portion of the potentials of said generator across said output terminals.

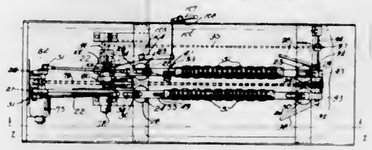


2,664,881
POSITIVE PRESSURE RESUSCITATOR
Henry Seeler, Dayton, Ohio, assignor to the United States of America as represented by the Secretary of the Air Force
Application January 28, 1952, Serial No. 268,653
5 Claims. (Cl. 128—29)
(Granted under Title 35, U. S. Code (1952), sec. 266)



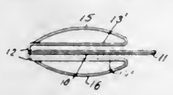
1. A resuscitator comprising, a housing defining a gas receiving chamber, means providing a gas inlet into said housing including a tubular member, a first movably mounted valve in said tubular member, means providing a gas outlet from said housing for connection to a face mask, a gas exhaust tube extending through said housing and open to the atmosphere, a second movably mounted valve in said exhaust tube, a flexible diaphragm in said housing forming one wall of said chamber, a valve operating mechanism in said housing including a slidable stem fixed to said diaphragm responsive to changes in pressure in said chamber during inhalation and exhalation phases of the resuscitation cycle, means interconnecting said stem and said valves to actuate said first valve from open to closed position and vice versa at the same time said second valve is operated from closed to open position and vice versa by action of rising and falling pressure in said gas receiving chamber, and an adjustable biasing means at one end of said stem acting in opposition to the rising pressure in said chamber during the inhalation phase of the resuscitation cycle.

2,664,882
SPINAL MASSAGE APPARATUS
Thomas M. Parker, Evanston, Ill.
Application July 11, 1950, Serial No. 173,030
10 Claims. (Cl. 128—33)



1. Physiotherapy apparatus for spinal massage comprising in combination a pair of spaced elongated spinal applicators adapted to contact with the back of a person undergoing treatment, and mechanism for oscillating each of said applicators bodily both longitudinally and laterally in a substantially elliptical path at substantially the same frequency.

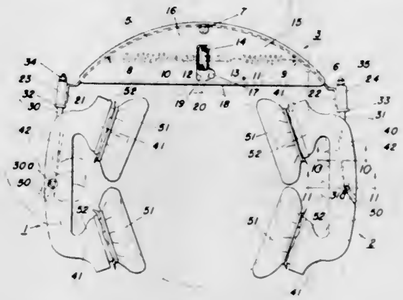
2,664,883
HAIR CURL HOLDING CLIP
Roy Andrew Smith, New York, N. Y., assignor, by mesne assignments, to Featherombs, Inc., a corporation of New York
Application February 14, 1951, Serial No. 210,974
1 Claim. (Cl. 132—46)



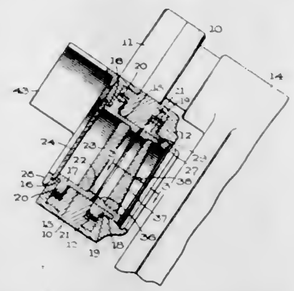
A curl holding clip of strong, light resilient construction which comprises a single strand of wire made of a light strong resilient material bent double to form an elongated guide member having a smoothly rounded tip and contiguous double wire thickness along the entire length of the guide member, the ends of the wire extending from the guide member being bent to form a pair of spring arches and being extended back along the guide member to form a pair of holding members shorter than the guide member in approximately parallel, spring tensioned but offset relationship to the guide member, each end of the wire being further shaped in a broad loop to form a wing member in the same plane as the holding members and thereby increase the distribution of holding points of the holding members, the clip being further characterized by sufficiently off-set disposition of the two holding members in relation to the guide member that the spring tension is freely adjustable by movement of the end portion of the guide member through the space between the two holding members.

2,664,884
SCALP MASSAGING DEVICE
Albert A. La Verne, Brooklyn, N. Y.
Application November 7, 1949, Serial No. 125,865
2 Claims. (Cl. 128—67)

1. As an element of a scalp manipulating device, a yoke having an intermediate portion and two legs, said legs being substantially at right angles to said intermediate portion, two blocks, each secured to said intermediate portion a short distance inwardly of said legs, and a screw-threaded stud extending through each leg near its juncture with said intermediate portion and contacting one of said blocks, said blocks and studs constituting means to adjust the angle between the intermediate portion and said legs and thereby adjusting the pressure of the device against the skull to which it is applied.



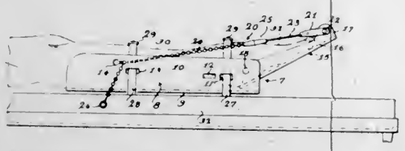
2,664,885
STEREOSCOPIC DEVICE
Gurney L. Mandaville, Fort Pierce, Fla.
Application November 26, 1951, Serial No. 258,212
7 Claims. (Cl. 128—76.5)



1. In combination with a stereoscopic training device embodying a pair of lens carrying front cylinders having external ring gears formed integrally therewith for rotating said cylinders in the same direction, a pair of rear cylinders having external ring gears formed integrally therewith adjacent the inner ends and intermeshing with one another for rotating said rear cylinders in opposite directions, said rear cylinders being disposed in aligned relation with said front cylinders, sleeves slidably mounted in said rear cylinders, a pin provided on the external surface of said sleeves and adapted to engage the outer end of said rotating rear cylinders during the insertion of said sleeves into said rear cylinders, prismatic lenses mounted in said sleeves with their apexes pointing towards said pins, said rear cylinders having a slot formed in the outer ends thereof for receiving said pins, the portion of said rear cylinders defining one side of said slot constituting a limit stop member for said pins and the portion of said rear cylinder defining the other side of said slot being provided with a beveled edge for guiding said pin into said slot to position the apex of the lens in one of said rear cylinders in proper relation to the apex of

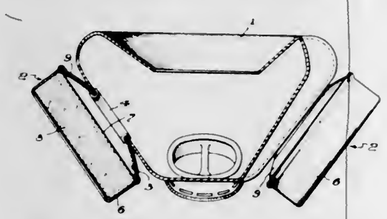
the lens in the other rear cylinder so that said apexes will move towards one another during one half of the rotation of said rear cylinders and will move away from one another during the other half of the rotation of said rear cylinlinders, means on said sleeves engageable with the outer ends of said rear cylinders for limiting the movement of said sleeves into said rear cylinders and locking means in said rear cylinders for securing the sleeves therein.

2,664,886
ORTHOPEDIC APPARATUS
Hurshel L. Coffman, Clinton, Md.
Application April 23, 1951, Serial No. 222,380
4 Claims. (Cl. 128—80)



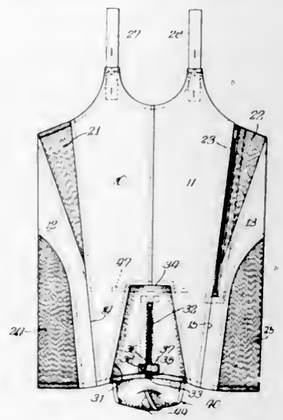
1. An orthopendic apparatus comprising an elongated leg engaging member of channel-shaped cross section in which the lower portion of the leg is adapted to rest, means for detachably securing said leg engaging member to the leg to prevent sliding movement of the leg relatively thereto, a foot plate, means pivotally connecting the foot plate adjacent to but spaced from one end thereof to the leg engaging member adjacent an end of the latter for swinging movement of the foot plate longitudinally of the leg engaging member, said foot plate being adapted to provide a support for the foot, and pulling means connected to the other outer end of the foot plate which is located remote to its pivot and being adjustably connected to the leg engaging member, near the end thereof disposed remote to the foot plate pivot, said pulling means urging the outer end of the foot plate to swing toward the last mentioned end of the leg engaging member to and beyond a position perpendicular to the longitudinal axis of the leg engaging member for exerting a pressure on the foot tending to swing the foot upwardly toward a position at substantially a right angle to the leg from an extended position of the foot.

2,664,887
GAS MASK
Daniel A. Green, Pittsburgh, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 5, 1952, Serial No. 269,967
6 Claims. (Cl. 128—146)



1. A gas mask comprising a face-piece provided with an air inlet, a substantially rigid annular coupling member having its inner edge portion sealed to the face-piece around said inlet with the outer portion of said member spaced from the outer surface of the face-piece, an air purifying canister provided with an air outlet, and a resilient annular coupling member having its outer edge portion sealed to the canister around said outlet and having an area in sealing engagement with the inner surface of said rigid member, whereby to provide an air tight coupling between the canister and face-piece, said resilient coupling member being spaced from the face-piece and removable from said rigid member.

2,664,888
MAN'S GARMENT
Edward R. Sutter, Chicago, Ill., assignor to Beau-T-Form Foundations, Inc., a corporation of Illinois
Application October 20, 1951, Serial No. 252,375
8 Claims. (Cl. 128—159)



8. A body bracing under garment for men, comprising: a fabric and elastic body portion adapted to extend about the body of a wearer from below the armpits to a position over the hips of the wearer, the lower portion of the garment extending around the hips and upper thighs of the wearer; closure means in the front lower portion of the garment extending from the lower edge thereof upwardly of the garment to provide access to the interior thereof; garment hold-down means attached to the inside front and rear portions of the garment and extending through the crotch of the wearer; and means removably securing the front of said hold-down means to the garment at a position intermediate the ends of said closure means whereby the hold-down means is accessible for manual release from the garment by the wearer upon opening said closure.

2,664,889
MAN'S POUCH-TYPE BRIEF
Perkins H. Bailey, New York, N. Y., assignor to The William Carter Company, Needham Heights, Mass., a corporation of Massachusetts
Application September 1, 1951, Serial No. 244,825
3 Claims. (Cl. 128—159)

1. A man's supporter-type garment comprising an elastic stretchable waistband, side and rear knit fabric portions extending downwardly from said waistband at the back and along the sides of the garment, and a central front portion of knit fabric of generally rectangular shape extending downwardly from said waistband at the front of said garment towards the crotch

with its wales running vertically of the garment, the median vertical length of said front portion being less than the vertical median length of said rear portion, said front portion being seamed at its bottom edge along a substantially straight transverse seam, located forwardly of the mid-distance through the crotch between the center of the top edge of the waistband in front and the center of the top edge of the waistband in back, to a central section of the bottom edge of said rear portion of less length than the length of the lower edge of said rectangular front portion to form gathers at the bottom of the front portion, said front portion being seamed along

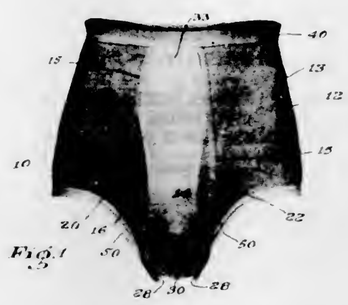
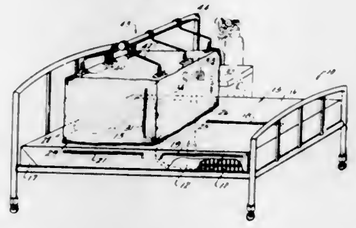


Fig. 1

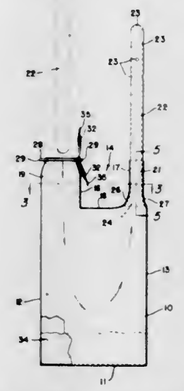
its upper edge to a section of the lower edge of said waistband of less length than the length of the upper edge of said rectangular portion to form gathers at the top of said front portion permitting lateral stretch of said waistband in front unrestricted by said central portion, and vertical lines of stitching extending separately on either side of said central portion from the waistband down to said transverse seam, and bottom edges of said side portions being seamed to said rear portion along extensions of said transverse seam, the gathers at the bottom of said front portion cooperating with said transverse seam to form a shaped supporting pouch in the front of said garment.

2,664,890
OXYGEN THERAPY TENT
William Earle Wallace, Winter Park, Fla.
Application January 6, 1953, Serial No. 329,938
7 Claims. (Cl. 128—191)
(Granted under Title 35, U. S. Code (1952), sec. 266)



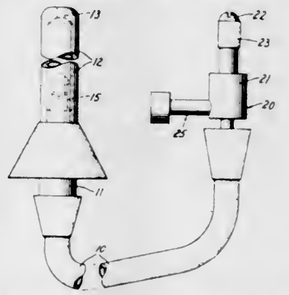
1. An oxygen therapy tent for use on a bed having a mattress comprising; a cover substantially impervious to air passage having an opening near one end thereof and being adapted to have the marginal edges thereof tucked under a mattress; and a transparent and impervious to air hood detachably connected to said cover about said opening providing substantially an airtight oxygen tent structure when attached to a bed, said hood having openings therein adapted to be connected to an oxygen air conditioning unit, and at least one closable opening in each the cover and the hood providing access to a patient thereunder without detaching said hood whereby a minimum volume of oxygen is present under said hood and said cover to the marginal edges thereof when said cover and hood are assembled for use on a bed with oxygen air conditioning equipment.

2,664,891
DISPOSABLE SYRINGE
George P. Kempel, Cuyahoga Falls, Ohio
Application May 15, 1951, Serial No. 226,442
21 Claims. (Cl. 128—224)



1. A disposable syringe comprising a flat bag of heat-sealable plastic sheeting, a first extension on said bag forming a filler opening, a reinforcing ring secured at the mouth of said opening, said first extension being of sufficient length to allow for folding thereof by turning said ring, a second extension on said bag, and a spray nozzle located in said second extension.

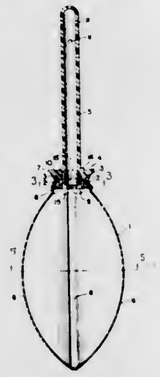
2,664,892
DOUCHE SYRINGE
Allen Henry and Irene Keranen, Detroit, Mich.
Application April 26, 1951, Serial No. 223,116
3 Claims. (Cl. 128—229)



1. In a douche syringe, a rubber hose, a hollow stem having an open liquid-receiving end connected to said hose and a closed end provided with a single discharge opening, means at said opening adapted to restrict and to break up into

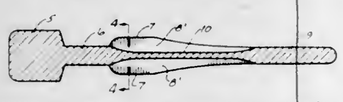
spray the stream discharged through said opening, a coupling adapted to be pressed into the opening of a water faucet and to be retained therein by friction, said coupling being provided with a metering orifice.

2,664,893
DISPOSABLE DOUCHE
George P. Kempel, Cuyahoga Falls, Ohio
Application October 20, 1951, Serial No. 252,349
5 Claims. (Cl. 128—232)



1. A douche comprising a rubber bag having a single, reduced opening with a beaded edge, a plug having a peripheral groove receiving said edge and having an axial passage, and a tubular stem releasably held in said passage and having perforations in its walls, said bag when filled with liquid having a form such that cross-sectional areas perpendicular to the axis of said opening are substantially rectangular.

2,664,894
DILATOR FOR CLOGGED TEATS
Victor Gariepy, Waterloo, Quebec, Canada
Application September 3, 1952, Serial No. 307,591
1 Claim. (Cl. 128—261)



A manually operable dilator for healing damaged teats consisting in an instrument made of a number of distinct and integral sections comprising a manipulating knob, a pointed pilot section, a spindle piece portion, and a collar extending between said spindle piece portion and the pointed pilot section, an inwardly curved medicament carrying section extending between said spindle piece portion and said pilot section, longitudinal grooves extending approximately the full length of said medicament carrying section one on each side thereof and separated by a diaphragm, the outer corners of said grooves being rounded.

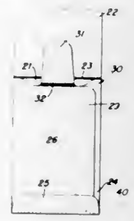
2,664,895
WATERPROOF GARMENT
Bernard B. Shulman, Philadelphia, Pa., assignor to Morris Freedman, Philadelphia, Pa.
Application November 30, 1951, Serial No. 259,153
8 Claims. (Cl. 128—287)

1. A garment comprising a pile assembly composed of a thermoplastic sheet, a fabric sheet, and a thermoplastic pocket strip; said pile assembly comprising an abdominal portion, a back portion, right leg portion, and left leg portion; said thermoplastic sheet, fabric sheet and thermoplastic



pocket strip comprising substantially registering edges; said edges being united in a unitary thermoplastic weld through which said fabric passes in thermoplastic-permeated state while reinforcing said weld with fibers of said fabric.

2,664,896
HOLDER FOR PHOTOGRAPHIC SHEETS
Howard H. Reineman, Brighton, N. Y.
Application February 23, 1950, Serial No. 145,881
5 Claims. (Cl. 129—1)



1. A holder for photographic prints and the like each having an opening therein adjacent an edge thereof, said holder being made of foldable sheet material and comprising a body section, a cover section foldably attached along one edge of said body section and overlapping and covering the same, and a plurality of flaps foldably attached to said body section and folded thereover to form therewith an envelope adapted to contain negatives and the like, said envelope having an open end adjacent said body section edge and having foldably attached thereto adjacent said open end a tongue means adapted for insertion through said print openings and into said open end of said envelope for releasably fastening said photographic prints in said holder and yieldably closing said envelope, respectively, said cover section being foldable over said envelope for closing the open end thereof and protecting one side of said prints.

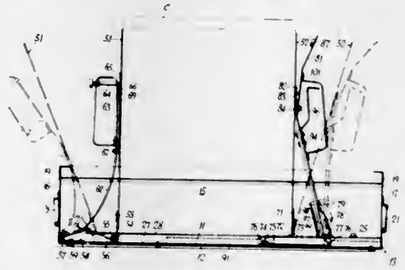
2,664,897
DIE CAST LOOSE-LEAF RING METAL FRAME
Pete O. Derringer, St. Louis, Mo., assignor to Loose Leaf Metals Company, St. Louis, Mo., a corporation of Missouri
Application July 29, 1950, Serial No. 176,699
2 Claims. (Cl. 129—24)

1. In a loose leaf metal frame, in combination, a pair of identical frame members in opposed engagement, each frame member being die cast from non-ferrous metal and comprising an elongated bar, an odd plurality of ring arches cast integrally with said bar and extending transversely therefrom, one of said arches being located in a center plane midway between the ends of the longitudinal bar, the remaining arches being located in spaced symmetry on opposite sides of said center plane, and a base element for each of said arches, said base elements being cast integrally with said bar and extending transversely therefrom, each of said base elements being disposed in the plane of a respective arch, the free end of the base element in said center plane being formed non-symmetrically with respect to said center plane so as to dispose mutually complementary end surfaces on opposite sides thereof, the free ends of the base elements which are removed from said center plane being formed symmetrically with respect to the respective planes in which they lie, each base element which



is removed in one direction from said center plane having a different end form than the base element which is removed equidistantly in the opposite direction from said center plane, said different end forms being such as to provide for mutual pivotal engagement, the free end of each base element on one of said frame members being in continuous engagement with the free end of a base element on the other of said frame members, the free ends of said arches being of identical form and being adapted for respective engagement with the free ends of the arches in the opposed frame member in one position of movement of said frame members, and means maintaining said frame members in opposed engaging relation and peritting overcenter pivotal movement thereof about the free ends of said base elements.

2,664,898
POSTING TRAY
Joseph D. Lear, Buffalo, N. Y., assignor to Posting Equipment Corporation, Buffalo, N. Y.
Application April 10, 1951, Serial No. 220,156
4 Claims. (Cl. 129—26)



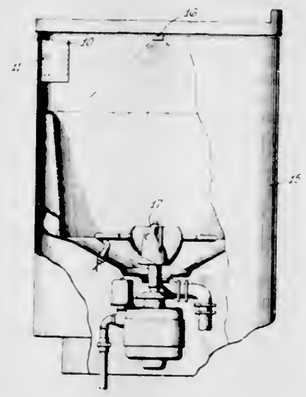
1. A posting tray comprising a bottom, a guideway in the bottom, a double leaf plate hinge having a knuckle retained in the guideway and linearly movable therein, a compressor plate connected to one leaf of the plate hinge, a latch bar hinge having a leaf pivotally connected to said bottom at one end and to the other leaf of the plate hinge at its opposite end, a flexible latch bar connected at one end to said leaf of the latch bar hinge, said latch bar extending upwardly from said latch bar hinge leaf into proximity to said compressor plate, interengageable latch elements formed on the plate and bar and adapted to retain the plate in upright position when engaged, and interconnecting means between the plate and bar to retain the same in proximity when the latch elements are disengaged.

2,664,899
DOUBLE BOBBY PIN
Isidor Attias, Long Beach, N. Y.
Application November 29, 1952, Serial No. 323,245
1 Claim. (Cl. 132—52)



A double bobby pin comprising a unitary length of material of substantially constant cross-sectional dimensions comprising a mid-portion of approximately one-third the length of said unitary length and having the ends each approximately equalling the length of said mid-portion and doubled back against the opposite sides of said mid-portion, said ends having wave-like corrugations formed thereon throughout their length, bights formed at the extremities of said mid-portion by the doubling back of said ends as aforesaid, said bights being rounded, that portion of each of said end portions adjacent one of said bights being straight and extending at an acute angle with respect to said mid-portion and further having a length equal at least to the length of two of said corrugations.

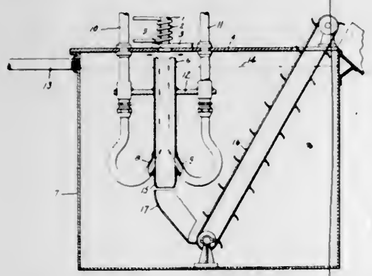
2,664,900
DISPENSER FOR LIQUID DETERGENTS
Frederick Fahnoe, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application December 16, 1948, Serial No. 65,712
4 Claims. (Cl. 134—56)



1. A liquid detergent dispensing attachment for a washing machine, which machine comprises a vertical tub adapted to be partly filled with wash water and agitation means which splash said wash water substantially throughout the rest of the tub space, rinse means for providing rinse water throughout all said tub space except a minor portion thereof in the upper part thereof, said attachment being positioned in said minor portion of said tub space which is

provided with splashed wash water only and comprising a vertical receptacle open at its upper end and closed at its bottom end and containing below said upper end a curved siphon tube having its inlet end opening within and near the bottom of said receptacle and its outlet end opening outside of said receptacle and lower than said inlet end opening, all whereby the receptacle and siphon tube may be partly filled with liquid detergent when the machine is loaded with a wash batch, and, after the initial rinse, when the wash water charge is agitated, water is splashed into the receptacle and fills the siphon tube so as to initiate the siphon action whereby the detergent is drained from the attachment into the wash water.

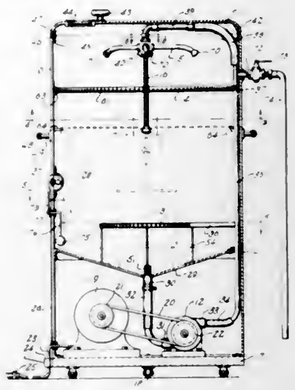
2,664,901
QUENCHING DEVICE
Richard A. Gehr, Glenville, N. Y., and Edmon S. Freshwater, Detroit, Mich., assignors to General Electric Company, a corporation of New York
Application May 9, 1947, Serial No. 746,944
2 Claims. (Cl. 134—105)



1. A quenching device comprising a tank for cooling fluid, a duct member open at each end mounted in an upright position in said tank, cooling fluid supply means connected to the lower end of said member for supplying cooling fluid to said member so as to produce a flow of cooling fluid upward through said member with overflow of cooling fluid from the top of said member, overflow means for said tank for maintaining a level of cooling fluid in said tank at least substantially immersing said tubular member, and means for moving a heated article to be quenched in a downward direction through said duct member.

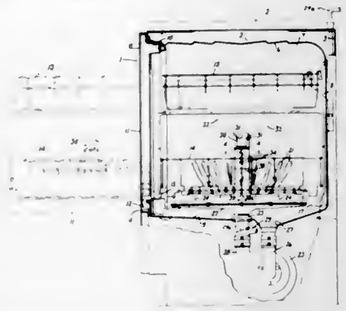
2,664,902
CENTER SPRAY PORTABLE DISHWASHING MACHINE
George H. Campion, Abbeville, La.
Application July 7, 1948, Serial No. 37,476
1 Claim. (Cl. 134—175)

In a dishwashing machine, a base, a casing mounted on said base, a cover hingedly connected to the top of said casing, a pump supported on said base, a motor for operating said pump adapted to be connected to a source of electrical energy, caster wheels mounted below said base, a conically-shaped false bottom interposed between said cover and base, a hose connecting the central part of said bottom to the inlet of said pump, a tube supported by the under surface of said cover, a vertically-disposed conduit passing through said false bottom and connecting said tube to the outlet of said pump, a spider including perforated arms rotatably supported by said cover, a plurality of spaced parallel vertically disposed posts extending upwardly from said false bottom, a first annular horizontally disposed perforated tube supported by said posts, a branch connection connecting the first tube to said conduit, arms extending inwardly from said first tube for engagement with a basket, a second annular perforated tube arranged above said first tube, lugs extending inwardly from said casing for engaging a plate-holding basket, a nipple



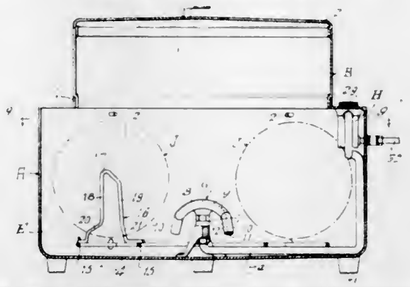
extending through said casing and connected to said conduit, a control valve mounted in said nipple, a hose extending from said control valve, said spider comprising a swivel connection, a plurality of arms extending outwardly from said swivel connection, a perforated tube extending downwardly from said swivel connection, nozzles arranged on the outer ends of said arms and last-named tube, a knob connected to said cover, and a window arranged in said cover.

2,664,903
DISHWASHER
Henry C. Sway, Louisville, Ky., assignor to General Electric Company, a corporation of New York
Application September 10, 1952, Serial No. 308,753
2 Claims. (Cl. 134—176)



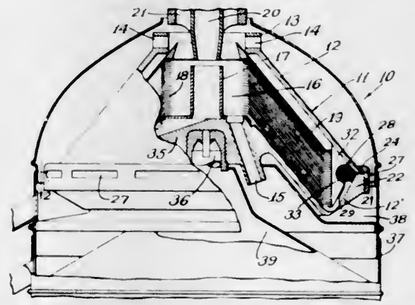
1. Dishwashing apparatus comprising a tub having a front opening therein, upper and lower openwork racks in said tub movable out of and returnable into said tub through said front opening, a reaction spray device revolvable on said lower rack to spray liquid to said upper rack, said spray device having an entrance opening facing downwardly in said tub, and nozzle means in said tub below said lower rack for projecting a supply of water in the form of a jet upwardly into said entrance opening.

2,664,904
DISHWASHING MACHINE
Howard K. Stokes and Agnes M. Stokes, Allenhurst, N. J.
Application June 13, 1950, Serial No. 167,805
5 Claims. (Cl. 134—179)



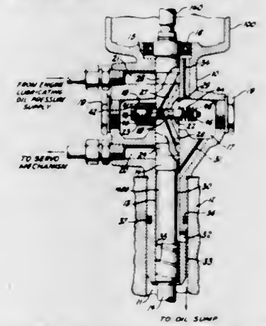
1. A water powered dishwashing machine including a water spraying means, means for connecting said water spraying means to a source of water under pressure, said water spraying means comprising a rotary spray head having an arcuate center pipe rotatable about a vertical axis which is the central radial line of the arc of said center pipe, and curved end pipes carried by and communicating with the center pipe at each end thereof and extending in opposite directions from the center pipe with their convex surfaces uppermost and their longitudinal median planes in angular relation to the vertical longitudinal median plane of the center pipe, said center pipe and said end pipes having rows of perforations for expelling water in precisely predetermined directions, the said rows of perforations being on the outer circumferential line of the end pipes and differentially offset at opposite sides of the outer circumferential line of the center pipe to form fan-shaped sprays, and dish-supporting means for holding dishes in positions to be contacted by said sprays.

2,664,905
CENTRIFUGALLY OPERABLE VALVE RING FOR CENTRIFUGAL SEPARATORS
William H. Harstick, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Original application June 24, 1946, Serial No. 678,863, now Patent No. 2,504,261, dated April 18, 1950. Divided and this application December 29, 1949, Serial No. 135,689
5 Claims. (Cl. 137—56)



1. A centrifugally rotatable valve construction comprising a rotatable valve seat having a discharge opening, an annular rubber-like sealing element positioned adjacent said valve seat, and a plurality of projections on said sealing element, said projections being circumferentially spaced around a peripheral edge of said sealing element for engaging the valve seat during rotation of said valve member whereby said sealing element is retained in laterally spaced relation relative to said discharge opening, said sealing element being centrifugally expansible during high speeds of rotation for engaging and sealing said discharge opening.

2,664,906
ENGINE GOVERNOR
Argyle G. Lautzenhiser, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 10, 1952, Serial No. 281,621
10 Claims. (Cl. 137—56)

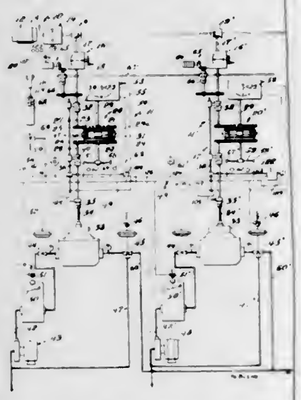


1. In a centrifugal control valve type governor, a housing having a pressure relief chamber therein, a shaft rotatable in said housing extending through said pressure relief chamber annularly grooved each side of said pressure relief chamber, the said housing having a fluid pressure inlet and a fluid pressure outlet therein each communicating with one of said shaft grooves, the said shaft having a diametrically disposed valve bore therethrough opposite said relief chamber and diagonal passages therein communicating between each annular groove and said valve bore entering said valve bore in longitudinal staggered relationship, the said shaft having a notch therein communicating with said valve bore and said pressure relief chamber, an unbalanced valve element including a spool slidably mounted in said valve bore having an annular passage therein and means spring loading said valve element to a position normally closing communication between said fluid pressure inlet and said pressure relief chamber, the said valve spool being movable against the spring loading thereof responsive to the rotation of said shaft whereby to close communication gradually between said fluid pressure outlet and said relief chamber and establish communication gradually between said fluid pressure inlet and the fluid pressure outlet as the speed of rotation of said shaft increases, the said annular passage in said valve spool overlapping the point of communication of said notch with said valve bore and the end of one of said diagonal shaft passages entering the valve bore in the said normally closed position of the valve element.

2,664,907
APPARATUS FOR PROPORTIONING FLOWS OF DIFFERENT MATERIALS
Rudy P. Lowe, Cranston, R. I., assignor to Proportioneers, Inc., a corporation of Rhode Island
Application January 6, 1951, Serial No. 204,780
13 Claims. (Cl. 137—100)

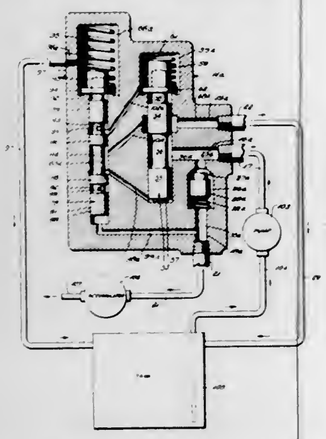
1. An apparatus for proportioning the flow of a plurality of liquids to be combined comprising

a master power pacing constant rate rotative member, the speed of which is unity for the volume of the combined liquids at any instant during operation, a plurality of flow lines and a ratio control for each flow line responsive to changes in the speed of the pacing member and adjustable to predetermine the volume of the flow of liquid through each flow line in definite proportions to the speed of said rotative power



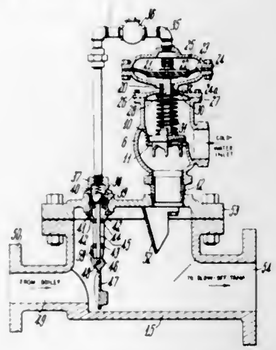
pacing member at any instant during operation and a differential means for each flow line responsive to the speed of the ratio controller and the volume of liquid moving through said flow line for controlling the flow of said liquid at a ratio governed by said ratio controller, and means for recirculating the liquid in a portion of each individual flow line upon a failure of flow in any flow line.

2,664,908
UNLOADING VALVE
Frank J. Strnad, Cedar Rapids, Iowa, assignor to Link-Belt Speeder Corporation, a corporation of Illinois
Application June 21, 1950, Serial No. 169,380
4 Claims. (Cl. 137—108)



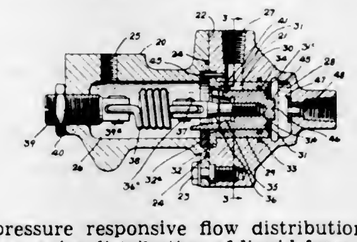
1. An unloading valve, comprising a body member having an inlet port in open communication with a continuous source of pumped pressure fluid, an outlet port in open communication with an accumulator for said pressure fluid, an outlet port connected to a pump fluid supply tank at atmospheric pressure, a directional spool chamber communicating with said inlet port and supply tank outlet port, a pilot spool chamber having one end in open communication with said accumulator outlet port, first and second passageways connecting the opposite end portions of said directional spool chamber to said pilot spool chamber, and a third passageway continuously connecting said supply tank outlet port with said pilot spool chamber intermediate said first and second passageway connections; a check valve preventing reverse flow of fluid from the accumulator to the inlet port, a directional spool positioned in its chamber and movable by the selective application of accumulator fluid pressure and fluid supply tank pressure to its opposite ends to establish and interrupt an unloading connection between said inlet port and said supply tank outlet port, a pilot spool positioned in its chamber with one entire end face constantly exposed to the accumulator fluid pressure prevailing in said one end of the chamber, a spring acting on the pilot spool to oppose the force of the accumulator fluid pressure, said spring being calibrated to effect, in cooperation with said accumulator fluid pressure, gradual movement of said pilot spool in opposite directions as the accumulator fluid pressure varies between preselected minimum and maximum pressure values, said pilot spool having an axial passageway opening through its end face which is exposed to the accumulator pressure and three longitudinally spaced peripheral grooves, the outer two of said grooves being in open communication with said axial passageway and being spaced to alternately register with said first and second passageways when the pilot spool occupies the opposite end positions of its path of travel, and the intermediate groove being of sufficient width to register with said third passageway at all positions occupied by the pilot spool and to also register alternately, but in the reverse order to said outer grooves, with said first and second passageways when the pilot spool occupies the opposite end positions of its path of travel.

2,664,909
BOILER BLOW-OFF AND SEWER PROTECTION
Edward P. Brock, Melrose, Mass.
Application July 15, 1950, Serial No. 174,036
6 Claims. (Cl. 137—111)



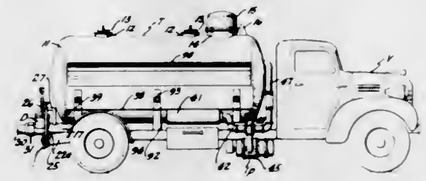
1. A mechanism of the class described, comprising a casing, a pair of inlet ports to said casing, one for connection to a boiler blow-off and the other for connection to a cold water supply, said casing having an outlet port, a main valve controlling said cold water supply inlet port, a diaphragm connected to said main valve, a spring normally holding said main valve seated, said mechanism comprising restricted passages from said cold water inlet port to opposite faces of said diaphragm, a connection from the face of said diaphragm remote from said valve to the interior of said casing beyond said main valve, a relief valve normally closing said connection, and means actuated by flow into said casing through said blow-off connection inlet port and positioned between said inlet ports to open said relief valve and thereby relieve pressure from said remote diaphragm face whereby pressure from said cold water inlet port on the opposite face of said diaphragm opens said main valve and permits cold water to flow from said casing and mix with flow from said boiler blow-off connection to pass out therewith from said casing through said discharge passage.

2,664,910
FLOW DISTRIBUTOR VALVE
Winnett Boyd, Bobcaygeon, Ontario, Ronald Guerin Meschino, Toronto, Ontario, and Kenneth William Jay, Weston, Ontario, Canada, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation
Application June 17, 1950, Serial No. 168,704
1 Claim. (Cl. 137—118)



A pressure responsive flow distribution valve for the precise distribution of liquid from a main conduit to a plurality of branch conduits comprising, a body containing a generally cylindrical chamber having an inlet end and a side wall in which is provided an annular recess, a guide ring in the recess, an inlet passage in the body communicating with the main conduit and leading into the inlet end of the chamber, a plurality of outlet passages in the body each communicating with one of the branch conduits, a cylindrical liner in the chamber having a plurality of outlet ports each disposed in registration with one only of the outlet passages, rigid members locking the ring and the liner to the body for preventing relative rotation between the ring and the liner and the body, a cylindrical piston slidable in the liner and having a skirt at the end of the piston facing the inlet end of the chamber, the skirt of the piston constituting a hollow extension, toward the said inlet end, of the cylindrical periphery of the piston, said piston being actuatable toward the other end of the chamber by fluid under pressure in the inlet passage, a tongue extending from the said end of the piston and slidably positioned in the guide ring to prevent rotation of the piston around its longitudinal axis, and a helical spring in the chamber connecting the piston to the body at the said inlet end of the chamber and urging the piston toward the inlet passage to a position in which the peripheral surface of the piston closes the said outlet ports, the end of the piston skirt having a plurality of V-shaped slots each tapering from the end of the skirt to the point of the V of the skirt in a direction substantially parallel to the axis of the piston, the slots being arranged around the said end in diametrical pairs and each being in longitudinal alignment with one only of the outlet ports, movement of the piston away from and toward the inlet passage causing a progressively greater and lesser area of each of the V-shaped slots to come into registration with its respective outlet port for distribution of liquid from the inlet passage to the outlet ports.

2,664,911
COMBINATION PRESSURE AND VACUUM TANK
Clarence S. Thompson and George E. Clark, Long Beach, Calif.
Application March 6, 1948, Serial No. 13,376
7 Claims. (Cl. 137—205)

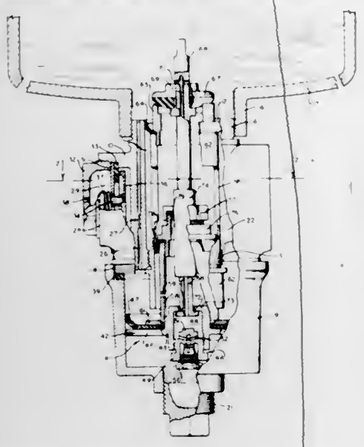


1. A portable vacuum and pressure tank apparatus, which includes: a tank; a pump operable to alternately furnish either air pressure or a vacuum; pipe means connecting said pump to the interior of said tank, said pipe means including an end portion disposed at the upper portion of said tank; a first valve selectively actuable so as to admit liquid material into said tank upon said pump being operated to place a vacuum upon said pipe means; float-operated valve means positioned in said end portion for closing said end portion when the level of said liquid material reaches a predetermined height within said tank; means for holding said float-operated valve means closed until said pump is operated to place a positive air pressure on said pipe means; and a second valve selectively operable to permit said liquid material to be discharged from said tank upon said pump being operated to place positive air pressure on said pipe means.

2,664,912
AUTOMATIC HYDRAULIC VALVE
William S. White, Denver, Colo.
Application May 20, 1949, Serial No. 94,396
5 Claims. (Cl. 137—211)

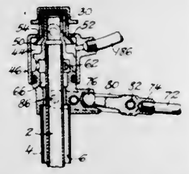
1. An automatic hydraulic valve for continuously charging and periodically discharging an accumulator comprising a body having an open end for communication with the accumulator, a central opening extending downwardly from the open end into the body and communicating with an outlet, a cylinder below the opening having a liquid inlet near its upper extremity, a small passageway through the body connecting the upper portion of the cylinder with the open end of the body for discharging liquid from the cylinder into the accumulator, and a laterally extending air aspirating passageway communicating therewith, a main valve for closing the central opening, a valve stem in the central opening mounted for axial movement therein, said valve stem having an axial bore for conducting liquid from above the main valve into the lower portion of the cylinder, a piston in the cylinder having a lost motion linkage with the valve stem for opening and closing the main valve, and an air check valve carried by the body

at a level lower than that of the main valve in communication with the small passageway for



permitting the aspiration of air into said small passageway, but preventing reverse flow.

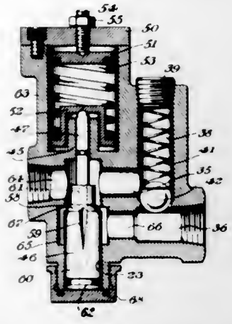
2,664,913
NONSIPHONING BALL COCK
Wilbert H. Patten, Trenton, N. J.
Application June 30, 1949, Serial No. 102,225
10 Claims. (Cl. 137—218)



1. A ball cock comprising a member formed for attachment to a liquid supply pipe and having a valve seat thereon, a housing forming a chamber communicating with said valve seat and provided with a passage for the discharge of liquid from said supply pipe, means providing an air inlet opening communicating with said chamber, a dual valve member loosely carried by and vertically movable with respect to said housing and having two oppositely facing surfaces held in fixed relative positions one of which is movable into and out of engagement with said valve seat to control the admission of liquid to said chamber from said supply pipe and the other of which is movable in response to the pressure of liquid in said chamber to close said air inlet opening and movable by gravity to open said opening, said housing being movable with respect to said member and float actuated means for moving said housing.

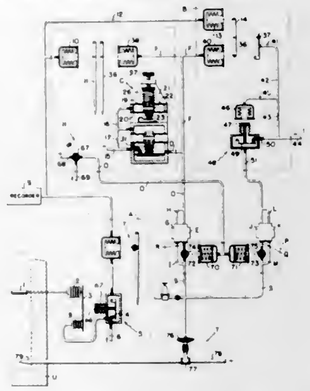
2,664,914
SELF-REGULATING FLOW-CONTROL VALVE
Robert C. Miller, Benton Harbor, Mich., assignor to Benton Harbor Engineering Works, Inc., Benton Harbor, Mich., a corporation of Michigan
Application April 25, 1950, Serial No. 157,985
4 Claims. (Cl. 137—505)

1. A flow-control valve comprising a valve casing having an inlet port and an outlet port, a valve cage having one end open to the outlet port, a return passage from the opposite cage end to the inlet port, a by-pass from the inlet port to the first named end of the valve cage, a check-valve in the by-pass, a main valve reciprocable in the valve cage and movable to interrupt flow



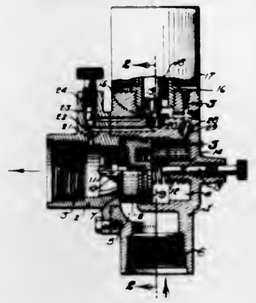
between opposite ends of the valve cage, a dash-pot at the second end of the valve cage, a spring means at the first named end of the cage for resiliently holding the main valve in the dash-pot, and a restricted passageway through the main valve from the dash-pot end to the opposite end of the main valve.

2,664,915
INTERRELATED AUTOMATIC AND MANUAL VALVE CONTROL
Pemberton H. Drinker, Strafford, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 4, 1949, Serial No. 74,682
17 Claims. (Cl. 137—653)



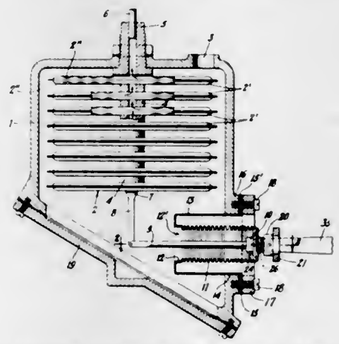
1. In an air-operated control device, an automatically-operated air-pressure transmitter, a manually-operated air-pressure transmitter, a controller under the control of either of said transmitters, a transfer switch controlling the connection of said controller or said manually-operated transmitter to a final control element, a pair of valves, one connected between said controller and said transfer switch and the other connected between said manual transmitter and said transfer switch to open or close communication therebetween, and a pair of differential-pressure-operated motors each connected to close one of said valves except when the air pressures in the inlet and in the outlet to said valve are within a pre-selected differential.

2,664,916
HYDRAULIC ELEVATOR DESCENT CONTROL VALVE
Alvin M. Conley, Los Angeles, Calif.
Application August 20, 1951, Serial No. 242,689
6 Claims. (Cl. 137—653)



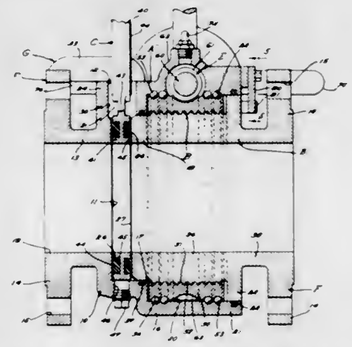
1. A valve for controlling the descent of hydraulic elevators, comprising: a valve body defining an outlet, a valve cylinder in alignment with said outlet, an inlet communicating between said valve cylinder and said outlet, a bypass communicating between said inlet and outlet and having a branch communicating with said valve cylinder; remotely actuated valve means controlling said bypass to bleed fluid simultaneously from said inlet and said valve cylinder; a throttle valve in said valve cylinder branch of said bypass to regulate flow of fluid into and out of said valve cylinder, and a valve plunger slideable in said valve cylinder and adapted to close said outlet.

2,664,917
APPARATUS FOR MEASURING ABSOLUTE PRESSURE
Carlton W. Bristol, Naugatuck, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application April 26, 1947, Serial No. 744,071
7 Claims. (Cl. 137—786)



1. An absolute pressure measuring device comprising a housing adapted for connection to a source of pressure to be measured, an opening in said housing, a bellows mounted at one of its ends in said housing responsive to the magnitude of the pressure therein, a rod connected to said pressure-responsive bellows at the end opposite its mounting and extending through said opening in said housing to a point outside the latter, a flexible closure for said opening comprising a bellows having an end wall sealed to said rod, said bellows being also sealed at its opposite end to a portion of said housing, an arm extending transversely of said rod and connected thereto outside said housing for movement by said rod to positions corresponding with those of said pressure-responsive bellows, and pivot means for said arm comprising resilient wires projecting therefrom on opposite sides of said rod and connected to a portion of said housing for providing a virtual axis for said arm adjacent said end wall of the second-mentioned bellows.

2,664,918
LINE BLIND CONSTRUCTION
Leland S. Hamer, Long Beach, Calif., assignor of one-fourth to Paul A. Dewhirst, Los Angeles, Calif.
Application March 1, 1948, Serial No. 12,457
1 Claim. (Cl. 138—94.3)



A fitting of the character described including, a tubular body having a main portion defining a plate chamber transverse of the body and an elongate radially disposed access passage communicating with the chamber and extending to the exterior of the body and having an outer end portion for connection with a pipe, a plate in the chamber, a clamp entered in the inner end of the body to engage the plate and slidably supported in the body, screw means operating the clamp relative to the body including an annular member located entirely within the body and threaded onto the clamp and having gear teeth on its exterior intermediate its end portions, two antifriction bearing means spaced apart at the exterior of the member and located at opposite end portions thereof and supporting the member in the body for rotation relative thereto, and means operating the said member and including, an operating stem carried by the body to project therefrom and a gear on the stem operating said member and engaging the teeth on the said member, the stem being tangential to a circle concentric with the body.

2,664,919
CUTTING PILE WIRE
Mario W. Ottomano, Union City, N. J., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application December 22, 1951, Serial No. 262,936
4 Claims. (Cl. 139—44)

1. For use in a pile wire, a holder for removably and rigidly retaining a pile cutting blade therein, said holder being formed from a metallic blank having a first wing and a second wing, said wings being folded so as to lie in juxtaposed position with respect to each other thereby defining

a slot, for a blade, said first wing having a spoon-like portion extending beyond the end of the second wing, and having its tip end slightly bent towards said second wing, the end edge of said second wing slanting downwardly away from the pile wire to its lower end and terminating at said end adjacent the inner end of a flat horizontal support positioned at the bottom of the spoon-like portion, an abutment disposed on the inner surface of the upper part of said spoon portion having its bottom inner corner approximately in vertical spaced apart registered relation with the



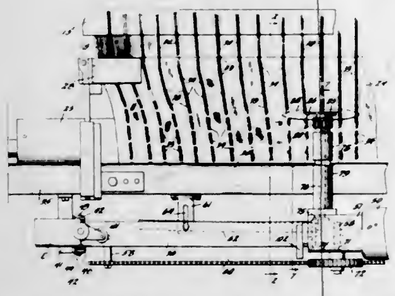
lowermost end of the end edge of the second wing, and in lateral spaced apart registered relation with the topmost portion of the top edge of the second wing to provide a channel of substantial width therebetween, the bottom edge of said abutment being parallel to and uniformly spaced from said horizontal support for its full length to provide a forward extension of said aforementioned channel which is clear of obstructions whereby free access can be had to the front lower corner of an inserted blade to facilitate flexing that corner upwardly to clear it above the abutment.

2,664,920

FLOAT CUTTING METHOD FOR LOOMS

Frank William Riddle, Biscoe, N. C., assignor to Aileen Mills Company, Biscoe, N. C., a corporation of Delaware

Application December 22, 1949, Serial No. 134,554
2 Claims. (Cl. 139—291)



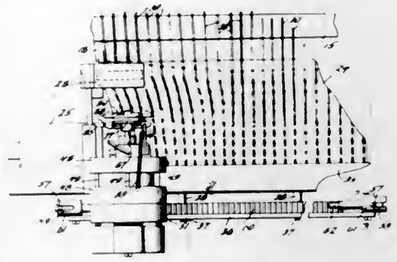
1. In the method of forming a tufted fabric by weaving into the fabric, at spaced intervals in the length thereof, a plurality of tuft cords extending lengthwise of the fabric, so as to provide tuft loops, the loops in adjacent cords being substantially aligned in rows transversely of the fabric, the step which comprises severing a row of tuft loops while the fabric is under lateral tension, by moving a cutting edge, in immediate succession, first from a point at one side of the fabric to sever the loops between said point and the selvage, thereafter across the width of the fabric to the opposite selvage to sever the remaining loops in the row, and then to a point inward of the last named selvage and inward of loops adjacent said last named selvage, and concurrently and during the severing of loops adjacent the selvages, displacing the cutting edge in the direction of distortion of the fabric caused by lateral tensioning of the fabric to compensate for such distortion.

2,664,921

SEVERING MACHINE FOR FORMING TUFTED FABRICS

Frank William Riddle, Biscoe, N. C., assignor to Aileen Mills Company, Biscoe, N. C., a corporation of Delaware

Application January 9, 1951, Serial No. 205,101
10 Claims. (Cl. 139—291)



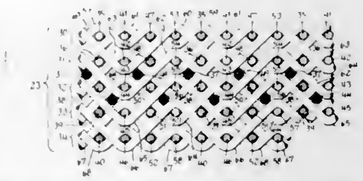
1. An attachment for a loom on which is woven a fabric having tuft cords extending lengthwise of the fabric, said cords being woven in the fabric at spaced intervals in the length of the fabric so as to provide tuft loops, the loops in adjacent cords being substantially aligned transversely of the fabric, said attachment comprising, in combination, guide means mounted on the loom and extending across the fabric, a cutting device mounted on said guide means for reciprocation lengthwise of said guide means and across said loops to engage and sever the latter, said cutting device comprising a pair of rotatable cutting blades positioned to engage and sever concurrently loops in adjacent transverse rows of loops, a motor for rotating said blades, and an operative driving connection between said motor and said guide means to propel said cutting device lengthwise of said guide means in one direction, and, after advance of the fabric through a distance corresponding to the spacing between adjacent rows of tuft loops, to propel said cutting device lengthwise of said guide means in the other direction, and means operable in timed relation with said loom for energizing said motor to effect reciprocation of said cutting device on said guide means, whereby said loops are successively engaged and severed by said cutting blades on movement of said cutting device across the fabric in each direction to form the tufts.

2,664,922

LOOM HARNESS-STRAP

Gustav Walters and Ernest F. Gatzke, Middletown, Conn., assignors to The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut

Application May 16, 1950, Serial No. 162,232
8 Claims. (Cl. 139—408)



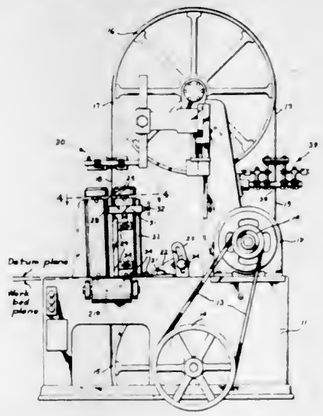
1. A woven, loom harness-strap construction having: ply-warp strands and binder-warp strands woven with weft picks to form more than two woven plies woven together; the average number of picks per bank of picks, being greater than the number of plies; a plurality of ply-warp strands being woven in only one ply which is one face-ply, and another plurality of ply-warp strands being woven in only another one ply which is the other face-ply; and substantially all the binder-warp strands being arranged in overlapping layers throughout the thickness of the strap, and the binder-warp strands of each layer of binder-warp strands extending through two adjacent plies but not through all of the plies.

2,664,923

MACHINE FOR SPLITTING OR RESAWING INSULATING BOARDS

Ernest R. Ferrari, Vancouver, Wash., assignor to A. W. Schaupp and E. R. Ferrari, a copartnership, doing business as American Smooth Saw Co., Klamath Falls, Oreg.

Original application November 16, 1951, Serial No. 256,712. Divided and this application October 14, 1952, Serial No. 314,663
3 Claims. (Cl. 143—5)



3. A bandsaw machine for splitting a thin sheet of soft cellulose fiber board into two tapered pieces which are more thin than, but of the same length and width as, the original board, said machine comprising: a frame member operatively carrying a power driven bandsaw blade having kerf forming and kerf planing teeth and having a horizontal flat surface defining a datum plane, a work bed adjustably mounted upon said frame and having a flat area defining a work plane, said work plane and datum plane being inclined at an acute angle to one another, a pair of spring biased and parallel mounted flat shoes positioned one on each side of said saw blade to hold the cut pieces of board together as they pass over the blade.

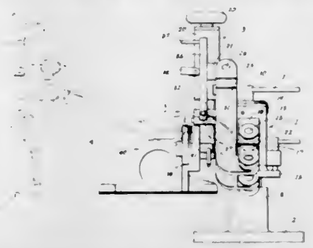
2,664,924

ADJUSTABLE TOOL SUPPORTING STAND

Mearl V. Tracy, Pasadena, Calif.

Application July 3, 1950, Serial No. 171,859
3 Claims. (Cl. 143—36)

2. An adjustable tool support comprising a rear upstanding and relatively fixed post unit, a movable front post unit, a toggle arm assembly connecting the units, the front post unit including a vertical sleeve on which the adjacent end of the toggle arm assembly is hinged and a post turnable and adjustably slidable in the sleeve and projecting therebelow; means to attach a tool to the post below the sleeve, an index plate on the post below the sleeve, a cooperating index collar slidable on the sleeve, bars upstanding from opposite sides of the collar and extending along the sleeve, a back-stop on the sleeve rearwardly of each bar, and a cam type clamping



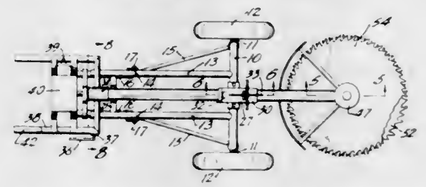
yoke pivoted on the sleeve at the front and normally but releasably clamping the bars against the adjacent back stop.

2,664,925

PORTABLE POWER SAW WITH OPPOSITELY ROTATING BLADES

Joseph H. Jacobs and Marcellus L. Jacobs, Minneapolis, Minn.

Application April 16, 1949, Serial No. 87,892
6 Claims. (Cl. 143—43)



1. A mobile, power saw for cutting standing or felled timber brush and other growth, having in combination a frame having ground-engaging supporting means for travel over the ground, an elongated power transmitting mounting pivotally supported on said frame for free oscillation thereon relative to said ground-engaging supporting means on substantially a vertical axis, said elongated mounting extending substantially beyond the forward end of said frame and said ground-engaging, supporting means, a pair of rotary, disc, saw blades supported for revolution on a common axis from the outer end of said elongated mounting and positioned closely adjacent each other, a motor having driving connections with said saw blades to drive the two in opposite directions, whereby said elongated mounting may be swung on said pivot to facilitate horizontal cutting of timber without transmission of torque to said frame and without applying drag or torque to the timber cut.

2,664,926

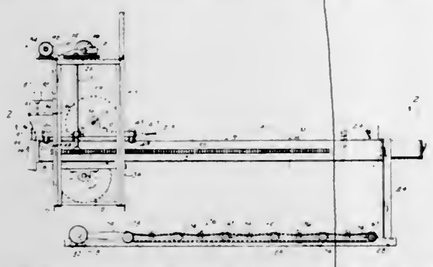
AUTOMATIC LUMBER-RELEASING TRAVELING GANG SAW SAWMILL

Elmer A. Fuglie, Winona, Minn., assignor to Winona Tool Manufacturing Company, Winona, Minn., a partnership

Application August 3, 1949, Serial No. 108,278
3 Claims. (Cl. 143—47)

2. A sawing machine, comprising a frame embodying a pair of laterally spaced rails, a stationary log gripping means supported on said frame at one end of the rails, a movable log gripping means supported on said frame adjacent the other end of the rails, driving means connected to the movable log gripping means for

moving the same into engagement with a log, a pawl and rack forming a releasable connection between the frame and the movable log gripping means, a saw carriage supported on said rails for longitudinal movement between said gripping means, a member carried by said carriage and engageable with the pawl when the



carriage approaches the movable log gripping means and being operable to release said gripping means from one end of the sawed log, and a bumper carried by said movable log gripping means and engageable with the saw carriage when the latter is completing its movement on the rails to simultaneously release the sawed log from the stationary gripping means.

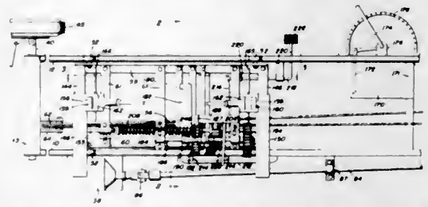
2,664,927
PANEL TRIM APPARATUS WITH ORIENTING FEED MEANS
Alfred Frank Pierce, Tacoma, Wash., assignor to American Manufacturing Company, Inc., Tacoma, Wash., a corporation of Washington
Application May 23, 1949, Serial No. 94,773
4 Claims. (Cl. 143—49)



2. Panel transport mechanism for panel trim apparatus having two spaced trim means for trimming opposite edges of a panel, comprising a carrier belt located substantially midway between such trim means and engageable by the lower surface of the panel from its leading edge to its trailing edge, two separate series of panel edge supporting rolls engageable by the lower surface of the panel and arranged, respectively, along opposite sides of said carrier belt, and a plurality of panel engaging means disposed above said carrier belt and said two roll series, respectively, engageable with the upper surface of a panel on said carrier belt and rolls and cooperating therewith to clamp the panel during edgewise movement thereof past the trim means.

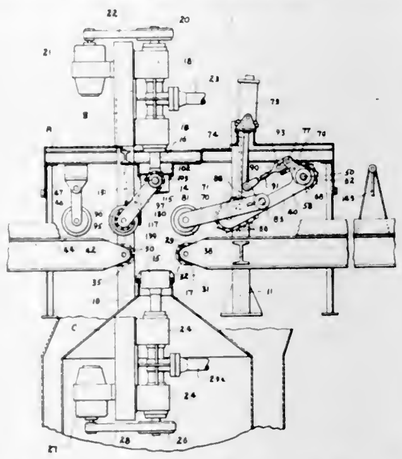
2,664,928
AUTOMATIC PORTABLE SAWMILL
Jasper D. Bethea, Silver Creek, Miss., assignor of one-third to William R. Bethea, Jackson, and one-third to Carlos E. Hill, Silver Creek, Miss.
Application December 21, 1949, Serial No. 134,195
2 Claims. (Cl. 143—115)

1. In a power saw, a frame, a saw blade mounted on said frame in a plane parallel to the longitudinal axis of said frame, a carriage disposed on said frame and movable longitudinally of said frame, a pair of transverse rails forming a part of said carriage and constituting head blocks, knees including base members located on said rails and movable tranversely of said carriage, each said knee including a dog to hold a log on its respective head block, means for raising said dog and holding said dog in a clamping position against the log, a gear assembly connected to said knee base members and forming means for actuating said knee on said head block to move the log laterally of said carriage, said last mentioned means including a cam follower which is located below and between said knee base mem-



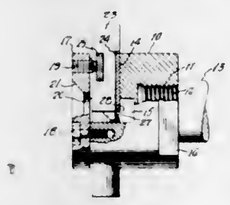
bers, means carried by said frame for actuating said cam follower when said carriage is moved fore and aft on said frame, said cam follower actuating means including a cam, and means adjustably mounting said cam in the path of travel of said cam follower, said mounting means including a cross member carried by said frame, a vertical pivot pin connecting said cam to said cross-member, a link connected to said cam, and means carried by said frame and connected to said link for moving said cam transversely in the path of travel of said cam follower to effect selectively adjustable movement of the log laterally of said carriage as the latter is moved fore and aft on said frame.

2,664,929
HYDRAULIC LOG-BARKER HAVING LOG-HOLDDOWN ROLLERS AND CONFRONTING ROTARY SPRAY HEADS
Howard Allan Simons, Vancouver, British Columbia, Canada
Application March 17, 1953, Serial No. 342,867
17 Claims. (Cl. 144—208)



14. A hydraulic barker for small logs comprising a main frame, two axially aligned oppositely disposed rotary spray heads facing each other and spaced apart a distance slightly greater than the diameter of the largest log for which the apparatus is designed, means for feeding water under pressure to said spray heads, means for rotating said spray heads at high speeds, infeed and outfeed aligned rollers rotatably mounted in said main frame and disposed on opposite sides of said spray heads with their axes of rotation parallel, a third roller rotatably mounted above the infeed roller with its axis of rotation parallel to that of the latter, and a fourth roller rotatably mounted above the outfeed roller with its axis of rotation parallel with those of the other rollers, said third and fourth rollers being mounted for vertical swinging to accommodate logs of different diameter, and being adapted to steady logs moving through high pressure spray from the rotating heads.

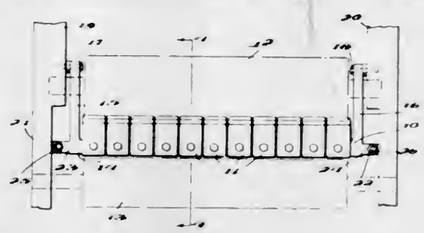
2,664,930
FORMING CUTTER FOR ROUNDING HANDLE ENDS
Charles H. Leonard and Joseph M. Cooke, Silverton, Oreg.; said Cooke assignor to said Leonard
Application July 23, 1951, Serial No. 238,062
3 Claims. (Cl. 144—218)



1. A forming cutter for rounding handle ends comprising a cylindrical body adapted to be mounted on a driving spindle, said body having a rectangular slot across the diameter of one face thereof, said body having a semi-cylindrical channel formed in the same face normally intersecting said square slot at the middle of its length, a cover plate secured to said body and having a work-receiving opening therein, each end of said semi-cylindrical channel having disposed therein side by side an arcuate cutting blade and an arcuate shoe, the cutting edge of the blade located in one end of the channel opposing the end of the shoe located in the other end of the channel substantially under the opening in the cover plate, the shoe being thinner than the blade, a pressure bar in the outer end of each pair of shoes and blades and set screws in said cover plate bearing against said pressure bar.

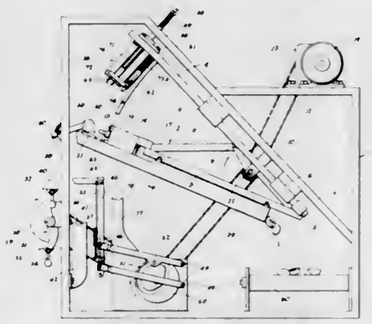
2,664,931
SECTIONAL CHIP BREAKER
James S. Ballantine, Absecon, N. J.
Application May 17, 1949, Serial No. 93,702
5 Claims. (Cl. 144—244)

1. A chip breaker comprising a guide bar, a plurality of presser feet mountd on said guide bar, each of said presser feet having a recess therein for receiving said guide bar, the width of the guide bar being less than the length of the recess in each presser foot, aligned openings in said guide bar and each of said presser feet, pins disposed in said aligned openings for mounting said presser feet on the guide bar, a ring mounted on each of said pins between the guide bar and a wall of said recess, said ring being shaped to comminute chips and the like lodging



in such area, and resilient means for urging each of the presser feet downwardly.

2,664,932
FRUIT HALVING AND PITTING MACHINE
Norman E. Gaddini, Winters, Calif.
Application December 14, 1951, Serial No. 261,626
15 Claims. (Cl. 146—28)



14. A fruit halving and pitting machine comprising a carrier having forwardly diverging upper and lower arms pivotally connected at the rear ends, a frame, means mounting the carrier in the frame to allow of longitudinal reciprocation of the carrier, power mechanism mounted on the frame and connected to the carrier and arranged to simultaneously reciprocate the same and oscillate the lower arm relative to the upper arm, a fruit holder on the lower arm, means mounted on the frame and cooperating with the holder and operative on the up-stroke of the lower arm to slice holder-supported fruit about the pit into separate halves, means included with the holder to separately support said fruit halves, a pit ejecting unit mounted on the upper arm in position to cooperate with halved fruit on the holder upon said lower arm reaching the top of its up-stroke to then eject the pit from the fruit and a member mounted on the frame in position to engage the holder-supported and pitted fruit halves upon the downstroke of said lower arm to release said fruit halves from the holder.

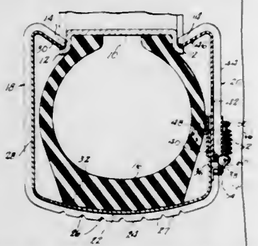
2,664,933
GOLF BAG
Orrin W. Gielow, Kansas City, Mo.
Application August 2, 1950, Serial No. 177,191
2 Claims. (Cl. 150—1.5)

1. In a golf bag of the class described having a rigid tubular body member and a rigid floor member, an angled planar member secured to said floor member and forming in conjunction with said floor and said body member a tee compartment, said body member having an opening

formed in the wall thereof to provide access to said tee compartment, an outwardly opening channel member secured at its upper end to said body member and at its lower ends to said planar member to form in conjunction with said body member an essentially tubular golf ball compartment, said golf ball and tee compartments having a common dividing wall, said body member having openings formed therein, adjacent the opposite ends of said ball compartment for the insertion and removal of balls therefrom, and a spring detent partially obstructing each of said openings and normally preventing the passage of golf balls therethrough.

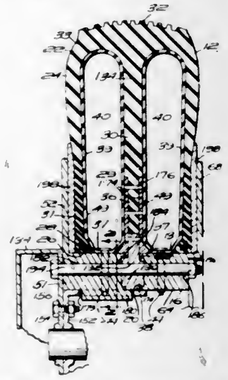


2,664,934
WHEEL TRACTION DEVICE
Jacob Safran, Los Angeles, Calif.
Application September 7, 1951, Serial No. 245,540
2 Claims. (Cl. 152—225)



1. A wheel traction device for application to a vehicle wheel equipped with a tire casing having a tread and side walls and with a rim having peripheral flanges at opposite sides thereof, comprising a pair of rigid one-piece strap members complementing one another to straddle said casing, one of the members being formed with a transverse leg overlying the tread and with a long and a short side leg respectively extending from opposite ends of the transverse leg to overlie the side walls of the casing, the other member being generally straight to overlie one only of said side walls and being hingedly joined to the short side leg; lateral extensions extending inwardly of said rim from and related acutely to the long side leg and said other strap member to engage the respective flanges when the strap members are disposd to straddle the casing; and a sleeve slidably mounted upon said other strap member to shift over the hingedly joined ends of the members, a spring exteriorly of said sleeve and having one end connected to said sleeve, and a latch means on the other end of said spring and releasably engageable with a holding element carried by the short side leg to lock the members against relative movement when positioned to straddle the casing.

2,664,935
LARGE VOLUME MULTICHAMBER TIRE
John B. Des Rosiers, Providence, R. I.
Application April 19, 1949, Serial No. 88,424
5 Claims. (Cl. 152—339)



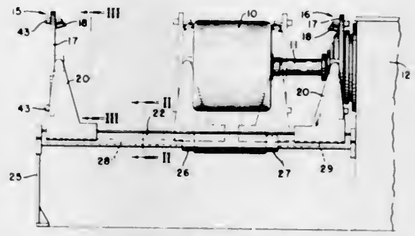
1. A vehicle wheel comprising a rim, a pneumatic tire generally oblong in section, having an inner chamber, having a height substantially of at least twice its width and having substantially flat side walls and an annular center wall projecting inwardly substantially centrally of the tread surface thereof to the rim, dividing said chamber into two chambers, each alone capable of supporting the vehicle, said tire walls having flexible upper portions and substantially rigid lower portions and means to detachably secure said tire to said rim, including flanges projecting upwardly from said rim supporting the side walls of said tire for substantially half the height thereof.

2,664,936
INNER TUBE FOR PNEUMATIC TIRES
James W. Waber, Chicago, Ill.
Application July 2, 1949, Serial No. 102,771
2 Claims. (Cl. 152—347)



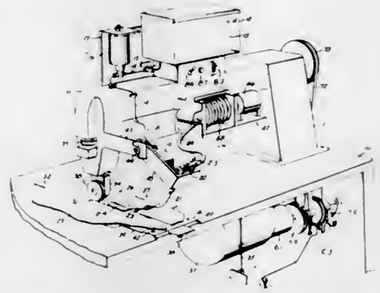
1. An inner tube for pneumatic tires comprising an endless tightly vulcanized tube member having a tread zone, an annular layer of unvulcanizable easily displaceable plastic composition superimposed on said tread zone, a member providing a layer of tightly vulcanized material superimposed on said plastic layer and vulcanized to said tube, an annular layer of unvulcanizable easily displaceable plastic composition superimposed on said vulcanized layer, and a layer of tightly vulcanized material of substantially the same thickness and characteristics as the first said layer of tightly vulcanized material superimposed on the second said plastic layer and vulcanized to one of said members, each of said layers being uninterrupted and extending both transversely and circumferentially throughout said tread zone.

2,664,937
TIRE BEAD SETTING APPARATUS
Alf C. Hirsch, Eau Claire, Wis., and George Frederick Wikle, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application August 1, 1951, Serial No. 239,805
12 Claims. (Cl. 154—10)



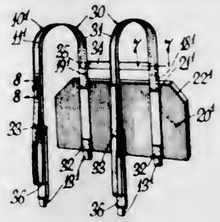
1. Tire bead setting apparatus comprising, a frame, a plurality of bead supporting and stitching rollers mounted in a circular pattern on said frame, and means mounting said frame for pivotal movement about a diameter of said circular pattern whereby the frame with the rollers mounted thereon may align itself with the end of a tire building drum when it is moved against the end of a tire building drum to apply the bead to a carcass carried by the drum.

2,664,938
PLASTIC BONDING MACHINE
John M. Torr, New York, N. Y., assignor to Phillips Screw Company, a corporation of Delaware
Application November 29, 1952, Serial No. 323,242
12 Claims. (Cl. 154—42)



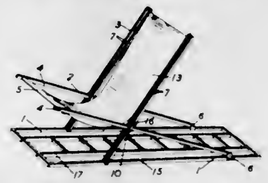
1. A machine for bonding together two pieces of plastic material, comprising a reservoir for a bond-effecting liquid, means for overlapping portions of said pieces of plastic, conduit means connected to said reservoir for conducting liquid between said overlapped portions, valve means in said conduit means for controlling the rate of liquid flow therethrough, said conduit means having an outlet adapted for extending between the overlapping pieces of plastic, suction means connected to said conduit means for creating a suction at said outlet, and control means connected to said suction means for effecting operation thereof upon stopping of said machine.

2,664,939
SPORTSMAN'S SEAT
Edmund S. Besch, Orchard Park, N. Y.
Application February 24, 1949, Serial No. 78,040
8 Claims. (Cl. 155—37)



1. A portable seat for sportsmen comprising a flexible shoulder harness adapted to extend from the waist area up over the shoulders and down the back to below the buttocks of a user; a water-proof pad secured to the lower back ends of the harness; and means adapted to adjustably secure the front ends of the harness to the wearing apparel of the user, whereby the harness is adapted to support the pad in a lowered position below the user's buttocks for use as a seat and in a raised carrying position above the user's buttocks.

2,664,940
CONVERTIBLE, ADJUSTABLE, AND COLLAPSIBLE SEAT AND LADDER
Kenneth Walter Warren High, Haworth, Keighley, England
Application June 15, 1951, Serial No. 231,802
6 Claims. (Cl. 155—42)

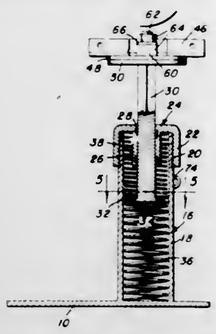


1. An adjustable and collapsible supporting frame for seats and other articles of furniture, comprising in combination an oblong base, a U-shaped frame having each of its arms formed by two spaced members with the ends of the arms at the open end of the frame pivotally connected at opposite points to the sides of said base adjacent one end thereof, a second U-shaped frame having single arms arranged slidably through said double arms said single arms having their ends pivotally connected at opposite points to the sides of said base adjacent the other end thereof, and an adjustable clamping device associated with each said double arm for clamping said single arms within said double arms to form an X-shaped frame.

2,664,941
TRACTOR SEAT WITH CUSHIONED SUPPORT MEANS
Charles H. Gillespie, Cedar City, Utah
Application April 30, 1952, Serial No. 285,199
6 Claims. (Cl. 155—52)

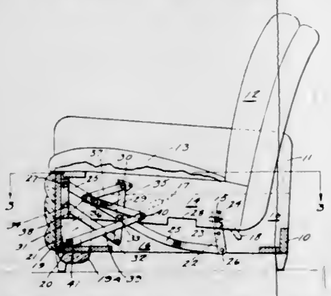
6. In a seat construction, a base adapted to be detachably and adjustably mounted on a relatively stationary support, a cylinder attached to and rising from said base, a screw cap mounted on the upper end of said cylinder, said screw

cap having a central guide and said guide being non-circular in cross-section, a plunger having a rod and a head, said head being slidable in said cylinder and said rod being slidable but not rotatable in said guide and having a cross-section corresponding to the cross section of the guide, a first plate mounted atop said rod, a second plate



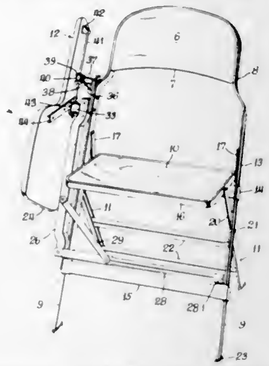
superimposed on said first plate, means separably and swivelly joining said second plate to said first plate, said plates having registerable keeper holes, a keeper pin normally fitting in said holes and locking said plates solidly together and against relative rotation, a seat arranged above said plate, and means separably joining said seat to said second plate.

2,664,942
ADJUSTABLE CHAIR WITH LEG SUPPORTING PLATFORM
Detmer D. Spear, East Palestine, Ohio, assignor to The Kenmar Manufacturing Company, East Palestine, Ohio, a corporation of Ohio
Application December 2, 1952, Serial No. 323,539
6 Claims. (Cl. 155—106)



1. In a reclining chair having a seat and back unit and means for supporting the same in tiltable relation to a supporting surface, said supporting means comprising a base relatively wider than said seat and back unit and including vertical side sections having slots formed therein at an inclination and in oppositely disposed relation, said seat and back unit having sidewardly projecting means engaging said slots, levers pivoted intermediate their ends to said side sections adjacent said slots and engaged on said sidewardly projecting means, and secondary levers pivoted at their upper ends to said seat and back unit, the improvement comprising a two-part foldable leg supporting platform and links pivotally secured to said levers and secondary levers and to one part of said two-part foldable leg supporting platform, and secondary links pivotally secured to said secondary levers and to said one part of said two-part foldable leg supporting platform, third levers pivoted to said links between said secondary levers and said one part of said leg supporting platform, third links pivotally secured to ends of said third levers and to said seat and back unit and a last pair of links pivotally secured to the opposite ends of said third levers and to the other part of said two-part leg supporting platform for positioning said two-part leg supporting platform in movable relation to said seat and back unit.

2,664,943
CHAIR AND TABLET ARM ASSEMBLY
John H. Clarin, Oak Park, Ill., assignor to Clarin Mfg. Co., Chicago, Ill., a corporation of Illinois
Application June 12, 1952, Serial No. 293,048
11 Claims. (Cl. 155—128)



1. A collapsible tablet arm assembly for support on a chair comprising, a tablet arm, an elongated member fixed to the underside of said tablet arm, a pair of elements providing aligned journal bearings receiving said elongated member, each of said elements having a support member connected thereto for relative movement about an axis generally normal to the axis of said journal bearing, one of said elements affording relative axial sliding movement of said elongated member, and each of said support members including means for attachment to a chair in supported relation thereto.

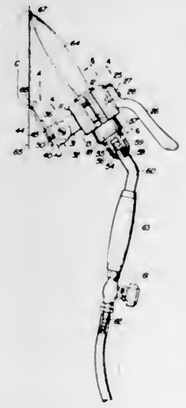
2,664,944
CHAIR
Carl Ernst Edvard Lundquist, Stockholm, Sweden
Application October 2, 1948, Serial No. 52,477
2 Claims. (Cl. 155—171)



1. In a chair, the combination with a frame including a seat portion having side members supported at their forward ends by front legs, of a folding foot rest comprising a first part pivotal-

ly connected to the forward end portions of said side members to turn in a vertical plane and a second part pivotally connected to said first part to turn in a vertical plane about an axis parallel with the axis about which said first part turns, the pivotal connection between said first and second parts comprising joint structures having releasable locking means for holding said parts locked in extended position relative to each other, and the width and depth of said parts being related to the distance between said front legs and the height of the free space beneath said seat and between the legs so as to permit said parts to be swung back between said legs when folded relative to each other and locked in extended position relative to each other under the seat.

2,664,945
COMBINATION TORCH HOLDER AND PAINT SCRAPER
Everett J. Maresca, Baldwin, N. Y.
Application June 9, 1952, Serial No. 292,461
9 Claims. (Cl. 158—13.6)



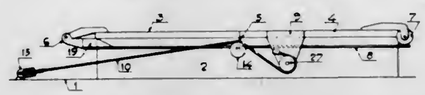
1. In a combination torch holder and paint scraper, a hollow clamp member comprising two separable components the inner walls of which combinatively form a substantially conical interior wall tapering inwardly from the rear to the forward end of the clamp, whereby a torch nozzle with a conical outer surface can be engaged by said conical wall, a blade member pivotally connected to the clamp member, means to releasably lock the said blade member in predetermined position relative to the clamp member, and a handle attached to the clamp member.

2,664,946
ADJUSTABLE CORNICE
Allan Kravitz, Detroit, Mich.
Application April 26, 1952, Serial No. 284,525
3 Claims. (Cl. 160—21)



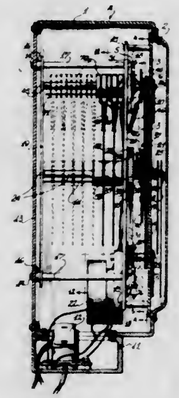
3. An adjustable cornice comprising two sliding end face boards and a center face board, the latter having upper and lower longitudinal grooves in which slide the upper and lower edges of the end face boards for longitudinal adjustment, and two end return boards at the outer ends of the end face boards, said center face board having a facial opening, and a display panel removably supported behind said center board and exposed by said opening, and panel being disposed between said center board and said end boards and thus held firmly in place by them against the back of the center board said panel holding the end face boards firmly in place in said center board.

2,664,947
OPERATING DEVICE FOR HOLD HATCHES
Reinhardt Olai Aarvold, Goteborg, Sweden, assignor to Aktiebolaget Gotaverken, Goteborg, Sweden, a corporation of Sweden
Application November 19, 1951, Serial No. 257,119
Claims priority, application Sweden December 11, 1950
11 Claims. (Cl. 160—193)



1. An operating device for a hold hatch of the type resting on a frame of the hold opening and comprising a first hatch section, a first hinge joint connecting said first section with said frame, a second hatch section having antifriction members resting on said frame, and a second hinge joint interconnecting said two sections, comprising two ropes extending on opposite sides of the hold opening transversely of the axes of said hinge joints, one end of each rope being attached to said second section, means provided near said first hinge joint and operable to exert tractive forces upon said ropes, and fair-leaders for said ropes, said fair-leaders being mounted in said frame and having, in the closed position of the hatch, their upper rope contacting faces located at a level higher than the points at which the ropes act upon said second hatch section.

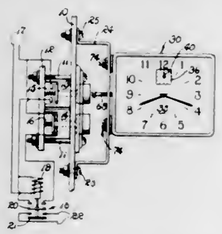
2,664,948
TIME CONTROLLED CIRCUIT SELECTOR
Edmour Geoffrion, Ville St. Laurent, Quebec, Canada, assignor, by mesne assignments, to Romeo Geoffrion, Montreal, Quebec, Canada
Application August 10, 1951, Serial No. 241,198
13 Claims. (Cl. 161—1)



1. In a time-controlled circuit selector, a plurality of rotatable members having spirally ar-

ranged electric contact arms operating means, electric contact arms associated with each of said members, swingable thereacross to be operated by said means when sweeping across said members, means for rotating said members at an equal number of revolutions per unit time, and means for swinging said arms in timed relation with said members such that said members will effect several revolutions for one swinging movement of said arms, whereby said arms may be operated at predetermined time intervals during rotational movement of said members.

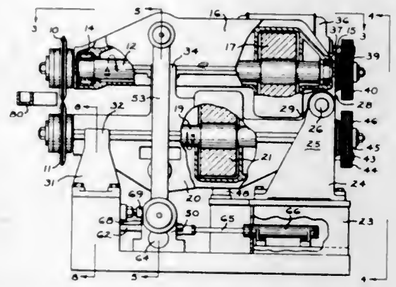
2,664,949
TIMING SYSTEM
Zack R. Keck, Strathmore, Calif.
Application February 19, 1952, Serial No. 272,323
8 Claims. (Cl. 161—1)



1. In combination with an electric circuit having a push button start switch and a push button stop switch therein, means mounting the push button switches in predetermined spaced relation, a bracket mounted on the mounting means in spanning relation to the push button switches, said bracket having a plurality of key-hole openings formed therein in equally spaced relation in alignment transversely of the push button switches, a control timer having an elongated plunger mounted therein endwardly reciprocated between an extended position and a retracted position at an adjustably predetermined time measured by the control timer, and a pair of headed pins mounted on the control timer releasably engageable in the key-hole openings of the bracket in alternate positions with the plunger aligned with the push button of the start switch and the push button of the stop switch respectively.

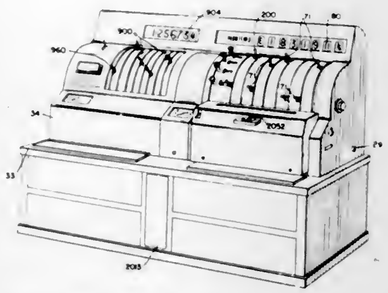
2,664,950
ROTARY SHEARS
Myles Morgan and Joseph M. O'Malley, Worcester, Mass., assignors to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application November 9, 1950, Serial No. 194,906
7 Claims. (Cl. 164—60)

1. A rotary shear for severing a longitudinally traveling rod or the like comprising two substantially parallel rotatable shafts, two cutting disks mounted on the respective shafts and positioned at an acute angle with the line of rod travel, the disks having circular cutting edges arranged to cooperate in severing the rod as it is deflected laterally between the disks, driving means to rotate the shafts, a supporting structure, a housing rotatably supporting one of the shafts, hinge means connecting the housing to the supporting structure so that the housing may swing substantially in the plane of the shaft axes, an actuating shaft rotatably mounted in the supporting structure, an eccentric on the actuating shaft, means including a pitman rod connecting the eccentric to the said housing, and mechanism to turn the actuating shaft and thereby swing the



housing about the hinge means as required to separate the disks and allow the rod to pass between them.

2,664,951
MEANS TO PUNCH A SPECIAL CODE BY LOCKING DATA LEVERS BY TRANSACTION LEVER
Warren P. Loudon, Tucson, Ariz., assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Original application September 16, 1949, Serial No. 116,004, now Patent No. 2,628,774, dated February 17, 1953. Divided and this application March 22, 1951, Serial No. 216,918
10 Claims. (Cl. 164—112)

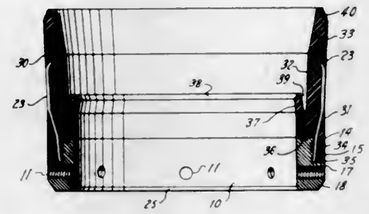


1. In a machine of the class described, the combination of perforating means, a plurality of elements to control the perforating means for perforating data, a plurality of differentially settable manipulative devices movable from normal positions to adjust said elements for perforating codes representing data, a transaction manipulative device settable to identify different kinds of entries, and means actuated by the transaction manipulative device when adjusted to a certain position to lock the plurality of differentially settable manipulative devices in said normal positions to thereby cause a special code to be perforated during the subsequent machine operation.

2,664,952
CASING PACKER CUP
Thomas B. Losey, Dallas, Tex., assignor to The Guiberson Corporation, Dallas, Tex., a corporation of Delaware
Application March 15, 1948, Serial No. 14,850
2 Claims. (Cl. 166—10)

1. In a well packer, a cylindrical base, including a plurality of flanges extending laterally

therefrom and being spaced apart to provide grooves therebetween, the lowermost flange of which having a greater external diameter than that of the uppermost two flanges, and the uppermost two flanges being provided with a series of holes therethrough; reinforcing members carried in said holes and extending upwardly above the base; and a resilient cup molded about and extending above the base and anchored thereto



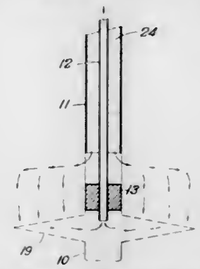
by being also molded about said uppermost two flanges, the cup being provided with a comparatively long outer lip arranged about said reinforcing members and extending thereabove, the cup being also provided with a relatively short inner lip, and the lowermost parts of both lips converging downwardly until united, the two lips being so spaced apart as to define an annular pocket therebetween.

2,664,953
PLUG SETTER
Dean D. McCormick, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware
Application May 19, 1948, Serial No. 27,949
2 Claims. (Cl. 166—13)



1. In a plug-setting mechanism for setting a plug in a well, which includes a plug having a mandrel, said mandrel having a slidably mounted flexible packer thereon, said packer engaging slip expanders at its upper and lower extremities, said expanders being positioned so as to wedge between said mandrel and upper and lower slips mounted on said mandrel, said lower slips being adapted to move over the lower expanders upon upward movement of said mandrel, and means for moving said upper slips over the upper expanders in preliminary plug-setting position, the improvement in said mechanism which includes plug-setting means comprising upper and lower jars, said lower jar being attached to said plug, said upper jar slidably engaging said lower jar and having a plug-supporting connector extending from said upper jar to said mandrel, said connector being of a length less than the extended length of said jars and engaging releasable plug-supporting means in said mandrel, said connector also engaging additional means coacting with said upper slips for initially maintaining said upper slips in non-plug-setting position against the force of the means for moving said upper slips over said upper expanders in preliminary plug-setting position, upward pull on said upper jar member being effective to release said plug-supporting means and to actuate said additional means to release said upper slips for movement over said upper expanders, whereby said upper jar will move into contact with said lower jar, and means integral with said lower jar for releasing said lower jar from said plug.

2,664,954
HYDRAULIC FRACTURING TO INCREASE WELL PRODUCTIVITY
Everett A. Johnson, Park Ridge, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application December 31, 1949, Serial No. 136,211
8 Claims. (Cl. 166—21)

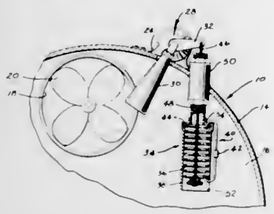


1. The method of treating wells which comprises introducing into the well bore a gelled fracturing medium consisting essentially of a low-viscosity hydrocarbon liquid and a gelling agent in an amount sufficient to effect gelation of said liquid, forming a lateral channel from the well bore into the formation by means of hydraulic pressure exerted on said fracturing medium, introducing at least a portion of the gelled medium into the produced lateral channel, injecting into the formation at a level spaced from said channel a second liquid characterized by being a solvent for the gelled medium and by having a tendency to filter rapidly into the formation without any substantial build-up of pressure, said second liquid thereby flowing laterally from the well bore toward said channel whereby the viscosity of said medium is substantially reduced, flowing the medium of reduced viscosity inwardly through said channel into said well bore, and removing the admixture from the well bore.

2,664,955
SPRAY BOOTH AND FIRE EXTINGUISHING MECHANISM FOR THE SAME
Charles Winkler, New York, N. Y.
Application February 5, 1951, Serial No. 209,436
4 Claims. (Cl. 169—2)

3. A triggering means for a fire extinguisher, said means including a tube having a seat, a spring within said tube having an end resting on said seat, a band external to the tube and hav-

ing hooked ends and a low temperature fusible link, said tube and seat having aligned slots accommodating the band, one of the ends of the band extending through the slot in the seat and engaging in the associated end of the spring,



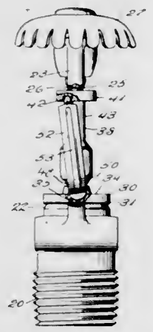
the other end of the band extending through the slot in the tube and engaging the other end of the spring, said band holding the spring under compression, and a fire extinguisher actuating element connected to the end of the spring remote from the seat.

2,664,956

SPRINKLER HEAD

Joseph J. Barz, Philadelphia, Pa., assignor to Star Sprinkler Corporation, Philadelphia, Pa., a corporation of New Jersey

Application August 5, 1950, Serial No. 177,924
3 Claims. (Cl. 169—38)



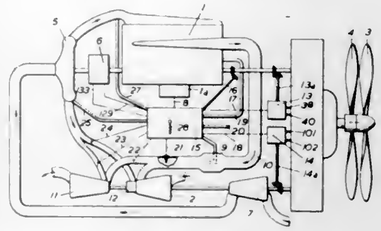
1. In a sprinkler head, a valve seat, a valve normally closing the valve seat and having a socket centrally disposed on the side remote from the valve seat, a frame having an open interior and extending out to a position on the side of the valve remote from the valve seat, an abutment on the frame centrally disposed in line with the valve and in spaced relation thereto, the abutment having a socket disposed toward the valve, a lever having a ball pivot portion at one end, having a lateral flange adjacent the ball pivot portion and having a socket adjacent the other end, extending straight from the abutment toward the valve and having the ball pivot portion engaging the socket on the abutment, a ball in the socket on the lever, engaging in the socket on the lever and engaging in the socket on the valve, fusible material in the socket on the lever behind the ball maintaining the ball in position, and a resilient strut engaging the valve at one end and engaging the flange on the lever at the other end at a position off center with respect to the straight line between the socket on the abutment and socket on the valve, the strut being normally flexed to exert pressure to swing the lever when the fusible element softens.

2,664,957

CONTROL SYSTEM FOR AIRCRAFT PROPULSION POWER PLANTS, INCLUDING A RECIPROCATING INTERNAL-COMBUSTION ENGINE AND AN EXHAUST DRIVEN TURBINE

Adrian Leslie Catford, Hampton, and Reginald Henry Douglas Chamberlin, Ealing, London, England, assignors to D. Napier & Son Limited, London, England, a company of Great Britain

Application October 26, 1951, Serial No. 253,298
Claims priority, application Great Britain October 31, 1950
7 Claims. (Cl. 170—135.28)



1. A control system for an aircraft propulsion power plant comprising a reciprocating internal combustion engine, a variable pitch airscrew driven by said engine, speed responsive governing mechanism associated with said airscrew to vary the pitch of the airscrew and thus automatically maintain the speed of the airscrew constant for any setting of the governing mechanism, a fuel control for said internal combustion engine, a turbine arranged to be driven by the exhaust gases from said engine, a compressor driven by said turbine and arranged to supply combustion air to said engine, an airscrew driven by said turbine, boost control mechanism responsive to the pressure of combustion air supplied to said engine including means for controlling automatically the speed of said turbine to maintain the combustion air supply at constant pressure for any given setting of the boost control mechanism, a movable stop device arranged to limit the movement of said boost control mechanism in the direction to increase the speed of said turbine whereby an upper speed limit of said turbine is fixed for each setting of the stop device, and a main control member arranged to control simultaneously the setting of said boost control mechanism, the setting of said fuel control for the internal combustion engine, the setting of said governing mechanism of the constant speed airscrew, and the setting of said stop device.

2,664,958

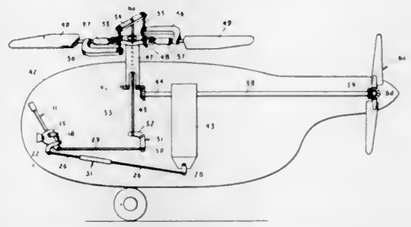
THROTTLE CONTROL AND PITCH SYNCHRONIZING DEVICE

Paul J. Dancik, Media, Pa., assignor to Piasecki Helicopter Corporation, Morton, Pa.

Application February 23, 1951, Serial No. 212,335
2 Claims. (Cl. 170—135.74)

1. In an aircraft having a rotor, a power plant for driving said rotor, a throttle for said power plant, means connected with said rotor for varying the pitch of said rotor, pilot operated control means connected to said throttle and said pitch varying means wherein movement of said

means simultaneously changes the setting of said throttle and the pitch setting of said rotor, said pilot operated means comprising a lever pivotally mounted to fuselage structure, one extremity of said lever being connected to said pitch varying means, a walking beam pivotally mounted on said



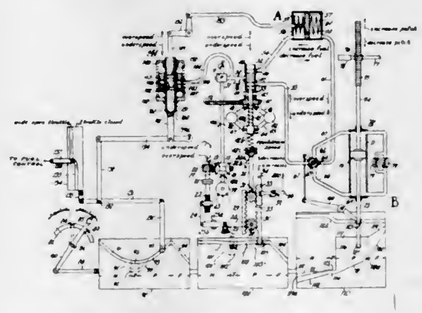
lever, means connecting one extremity of said walking beam to said throttle, and manually operated means mounted on said lever and connected to the other extremity of said walking beam to vary the setting of said throttle independently of motion of said lever.

2,664,959

AIRCRAFT ENGINE AND PROPELLER CONTROL SYSTEM

Joseph Stuart III, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application December 3, 1945, Serial No. 632,566
23 Claims. (Cl. 170—135.74)



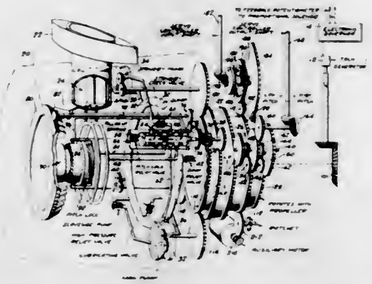
5. In a speed-governing system for a prime-mover and propeller power-plant, the combination comprising, means for adjusting the angle of the propeller blades according to a certain setting, a pressure fluid source, a distributing valve comprising a valve-body having an inlet port connected with the source and distribution ports, a movable speed-responsive valve element for controlling the distribution ports in accordance with over-speed or under-speed, a servomotor having a piston enclosed by a cylinder whose ends are connected, respectively, with the distribution ports, one of said distribution ports being a discharge port for one end of the cylinder when the other end of the cylinder receives pressure-fluid from the other of the distribution ports, a mechanism operated by the piston for setting the blade angle adjusting means in order to eliminate a speed error and fluid pressure operated means actuated by flow of fluid in a connection between the cylinder and one of the distribution ports for controlling the operating medium of the prime-mover in order to effect stabilization of the governing system.

2,664,960

TOPPING GOVERNOR AND REVERSING SOLENOID FOR VARIABLE PITCH PROPELLERS

Melvin E. Longfellow, Manchester, and Nelson R. Richmond, Thompsonville, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application July 29, 1950, Serial No. 176,578
8 Claims. (Cl. 170—160.2)



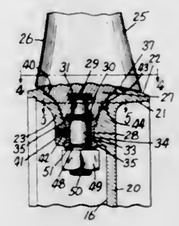
1. In an aircraft propeller comprising variable pitch blades, power operated means for varying the pitch of said blades in positive and negative pitch positions including a source of power therefor, controlling means operatively connected to said pitch varying means and said source of power for controlling said pitch varying means, speed responsive means for governing said controlling means including a servo motor operatively connected to said controlling means, overspeed governing means operable to prevent propeller speeds beyond a predetermined maximum during positive pitch positions of said blades, said overspeed governing means including operative connections to said servo motor, and mechanism for signalling said controlling means for a negative pitch position of said blades including means for disabling said overspeed governing means, said mechanism comprising operative connections to said speed responsive means and said servomotor.

2,664,961

ADJUSTABLE BLADE FAN

Charles F. Goede, New Philadelphia, Ohio, assignor to Joy Manufacturing Company, a corporation of Pennsylvania

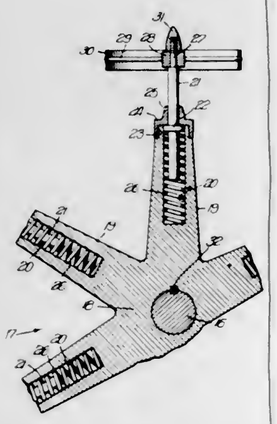
Application October 24, 1947, Serial No. 781,909
13 Claims. (Cl. 170—160.6)



1. A fan rotor element for an axial flow fan comprising a hub, a web, a rim having radial sockets therein having mouths opening outwardly through said rim, and including bearing inserts cast in said rim and disposed radially inwardly of the mouths of said sockets, fan blades each having a pivot element cast in its inner end, said pivot elements each having a portion received and journaled in one of said bearing in-

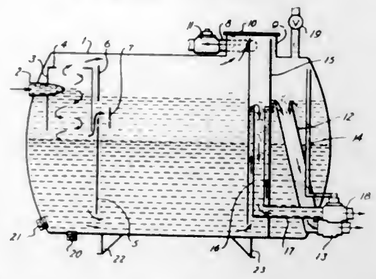
serts and having its portion which is cast in a fan blade lying entirely radially inwardly of the mouth of the socket but outwardly of the bearing insert, and the portions of the inner ends of said fan blades in which said pivot elements are cast closely received in said radial sockets, and means for holding said pivot elements in said sockets.

2,664,962
AUTOMOTIVE SLEIGH
Roman Faszczuk, Chicago, Ill.
Application August 15, 1951, Serial No. 241,987
1 Claim. (Cl. 180—6)



In an automotive sleigh, a propelling device comprising a first hub, a plurality of spokes extending radially from said hub, each of said spokes being provided with a bore in a longitudinal relation with each of said spokes, a rigid rod extending into said bore for sliding movement axially of said bore and being confined against movement in a direction transverse of the axis of said bore, a resilient member in said bore bearing against said rod for normally maintaining the latter in an extended position with relation to the spoke, the free end of said rod being reduced in diameter for effecting an axial extension upon said rod, said extension in conjunction with the body of said rod defining a shoulder, a rigid second hub inserted upon said extension, a separate, rigid rim member in a substantially spaced relation with said second hub, a plurality of rigid rods fixedly connecting said rim with said second hub, said rim and plurality of rods having surfaces engaging the sleigh supporting surface and being on a plane transverse to the first-mentioned rod, and a generally conical cap threadedly engaging the free end of said extension to clamp said second hub between said shoulder and the base of the cap with the free end of the cap extending beyond the plane of the surfaces of said rim and rods which engage the sleigh supporting surface, the diameter of the base of said cap being small relative to the diameter of said rim, whereby, upon rotation of the first-mentioned hub, the several rim members will successively engage the sleigh supporting surface with the leading edge of each rim member striking the surface at a sufficient angle to dig into said surface and give an immediate tractive effect, which effect is continued over a substantial arc until the trailing edge of said rim is raised from said surface.

2,664,963
GAS AND MULTIPLE LIQUID SEPARATOR APPARATUS
Isaac W. Lovelady and Sanford P. Kroeker, Odessa, Tex., assignors to Sivalls Tanks, Inc., Odessa, Tex., a corporation of Texas
Application June 23, 1950, Serial No. 170,002
9 Claims. (Cl. 183—2.7)



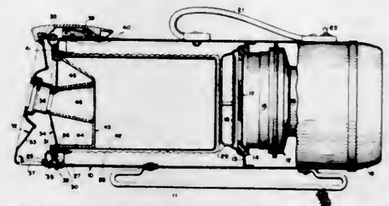
1. A gas and liquid multiple separator comprising an elongated tank mountable with its greatest dimension extending horizontally, a centrifugal separator cylinder mounted upright within the tank adjacent one extremity, a substantially tangential inlet to said cylinder intermediate its ends and providing communication between the interior of said cylinder and the exterior of said tank, baffle means separating the space below and directly adjacent said cylinder from the remainder of said tank and interrupted adjacent its lower and upper extremities and between the levels of the ends of said cylinder to permit communication with the remainder of the tank at said three levels, whereby a turbulent liquid zone is provided below and adjacent said cylinder to receive both heavier and lighter liquids from the lower end of said cylinder and a zone is provided above said cylinder for receiving turbulent gas from the upper end of said cylinder, and a quiescent zone is provided for receiving from the upper and lower parts of said turbulent liquid zone lighter and heavier liquids respectively and to receive in its uppermost portion gas from the upper end of said cylinder, a gas outlet from said tank, and means for maintaining in said tank a predetermined liquid level above said intermediate interruption and between the ends of said centrifugal separator cylinder.

2,664,964
FIBROUS FILTER SHEET FOR GASES
Arne Johan Arthur Asplund, Stockholm, Sweden
Application July 16, 1947, Serial No. 761,190
3 Claims. (Cl. 183—44)



1. A highly porous filter sheet particularly adapted for the mechanical separation of dust particles from gases, said sheet being formed from a pulp of Asplund-type fibers comprising the bulk of the aracheoid fibers of natural wood having substantially the natural resilience and structure of the original fibers, said fibers being formed into a sheet from an aqueous suspension thereof with the fibers arranged crosswise without predominant fiber direction, the sheet being free from coarse fiber bundles and from particles having a length below about 0.05 mm., the sheet having a weight of from about 200 to 1000 g. per square meter on the dry basis; said sheet having a remarkably low resistance to the passage of gases.

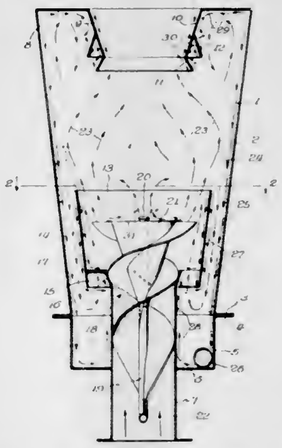
2,664,965
SUCTION CLEANER
Edward R. Swann, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 1, 1951, Serial No. 244,801
6 Claims. (Cl. 183—51)



1. In combination, a suction cleaner comprising a casing for a filter chamber and a motor driven suction unit, said filter chamber having a large area opening through which a filter bag can be inserted and withdrawn, a resilient gasket supported in the rim of said opening and including a portion projecting downwardly into said filter chamber against which the mouth of a flexible walled filter can be clamped, a closure for said opening having a hinge connection with said casing, means within said filter chamber for supporting a paper filter bag having a non-reinforced mouth of substantially the same peripheral extent as the inner wall of said gasket and so that the outer wall of said mouth is positioned opposite the inner wall of said gasket, a frusto-conical pilot secured to the inner side of said cover having a base portion of substantially the same contour and size as the inner wall of said gasket for clamping the mouth of said paper filter in air-tight engagement with said gasket when said closure is closed, the innermost portion of said pilot being of substantially smaller size than said base and being joined thereto by flaring walls so as to telescope readily into the mouth of the filter and to expand and clamp said mouth progressively to the inner wall of the gasket as the closure is swung to closed position, means for releasably clamping said closure in closed position, and means for conducting a dirty air stream into the filter bag through said closure and pilot.

2,664,966
DUST ARRESTER
Raymond H. Moore, Oak Park, Ill.
Application January 15, 1949, Serial No. 71,134
7 Claims. (Cl. 183—91)

1. A dust arrester comprising an inlet duct for the passage of dust-laden air, a circular inlet chamber open at both ends thereof and having a larger diameter at its upper end than at its lower end, means for violently rotating the mass of dust-laden air within the inlet chamber and ejecting the entire rotating mass from the larger upper end of the said inlet chamber, a circular dust arresting chamber extending above and surrounding said inlet chamber in spaced relation thereto and having the upper end thereof of larger diameter than the lower end, the space between said inlet chamber and said dust arresting chamber providing an annular passage around the inlet chamber from the top to the bottom thereof, an air discharge opening centrally disposed in the upper end of said dust arresting chamber, said dust arresting chamber being in full communication with the larger open upper end of said inlet chamber to receive the entire volume of the rotating dust-laden air as it is expelled from the open upper end of said inlet chamber, the said dust arresting chamber also being in full communication with the said annular passage, the aforesaid form of said dust arresting chamber being adapted to promote a liberal vortex action of air flow downwardly along the surface of its walls from the larger to the smaller end thereof and through said annular passage, said discharge opening being spaced upwardly from the upper open end of said inlet chamber a sufficient distance to permit particulate matter entering with the rotating mass of air from the inlet chamber to settle outwardly

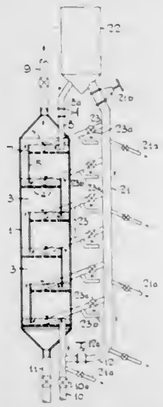


by centrifugal force into the path of the downwardly moving vortex flow of air, thereby allowing the dust-free air to be expelled through the discharge opening, a dust collecting chamber below said inlet chamber in spaced relation thereto, said dust collecting chamber being in full communication both with said annular passage and with the smaller open lower end of said inlet chamber, means in said dust collecting chamber for separating and discharging particulate matter from the air of the vortex passing therethrough, said dust collecting chamber being adapted to conduct the air of the vortex into the bottom of said inlet chamber, whereby said air from the vortex will join the incoming dust-laden air to be re-energized to violent rotation within the inlet chamber and be again subjected to the complete dust arresting cycle.

2,664,967
METHOD FOR CONTACTING GASEOUS MATERIAL WITH FINELY DIVIDED SOLIDS
Byron V. Molstedt, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application March 13, 1950, Serial No. 149,236
9 Claims. (Cl. 183—114.2)

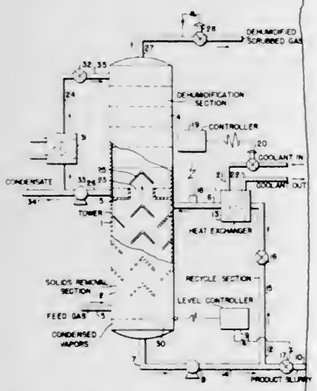
1. In a process for contacting gaseous process materials with fluidized, finely divided, solid materials in a series of superimposed, successively communicating contacting zones defined by a vertically spaced series of perforated supporting means on which said solid materials are maintained as fluidized beds of substantially pre-

determined depth, and in which process said gaseous material is passed upwardly and said solid materials downwardly through said zones in countercurrent flow relation, the improvement which comprises the steps of initially introducing fluidized finely divided, solid material into substantially concurrent flow relation with a stream of gaseous material being passed upwardly through said series of zones, and charging the several zones in said series with a mass of solid



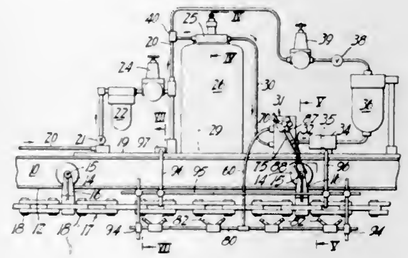
material to a depth substantially in excess of the operating depth predetermined for said beds, then discontinuing introduction of said solid material in concurrent flow relation with said gaseous material, followed by the steps including initiating process flow of said fluidized, finely divided, solid material downwardly through said zones and from zone to zone, and removing from the series of zones the solid material in excess of said predetermined operating depth of the bed in each zone.

2,664,968
PROCESS FOR RECOVERING VAPORS AND SOLIDS FROM GAS STREAMS
Robert S. Wood, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 30, 1952, Serial No. 307,270
3 Claims. (Cl. 183—120)



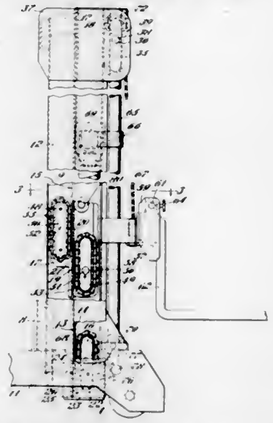
1. A process for dehumidifying and scrubbing a gas stream containing a non-condensing gas, a condensible vapor and finely-divided entrained solid particles which comprises passing the gas stream countercurrently in a gas-liquid contacting zone to a pumpable slurry comprised of liquid components and solid components, said liquid components and solid components being derived from the condensible vapor and solid particles present in the gas stream, said pumpable slurry being present within said gas-liquid contacting zone in an amount sufficient to thoroughly wet the gas-liquid contacting surfaces contained within said zone and thereby scrub said solid particles from said gas stream, said pumpable slurry being sufficiently lower in temperature than said gas stream so as to condense a predetermined portion of said condensible vapors within said gas-liquid contacting zone and thereby form additional pumpable slurry, recirculating at least a portion of the combined slurry to said vapor-liquid contacting zone, withdrawing the remaining slurry as a first product, withdrawing the scrubbed gas stream from said gas-liquid contacting zone and dehumidifying the scrubbed gas stream by condensing and collecting condensible vapors contained therein.

2,664,969
MACHINE LUBRICATOR
Folmar I. Bjerre, Hamburg, N. Y.
Application October 18, 1950, Serial No. 190,862
7 Claims. (Cl. 184—15)



1. In a lubricating device, means for supplying air-oil mixture under pressure, and means for conducting the air-oil mixture from said supply means to a dispensing nozzle directed at the part to be lubricated comprising a pressure accumulating chamber, valve means intercalated in said conducting means intermediate of said supply means and said nozzle, said valve means including a body portion and a member movable therein in reverse directions between dispensing and non-dispensing positions, said member being biased to move to non-dispensing position by the pressure from said supply and constructed and arranged to thereupon permit flow of oil-air mixture through said valve into said accumulating chamber, said valve member being adapted to be forcibly displaced against the action of the pressure thereon from said supply means to be moved thereby to dispensing position whereupon said valve member operates to cut off the supply pressure and disposes said accumulating chamber in open communication with said dispensing nozzle, and valve actuating means comprising a member disposed to register in bearing relation against a moving part of the machine to be lubricated to be actuated by movement thereof so as to forcibly displace said valve member against the pressure thereon into dispensing position whereupon the charge of oil-air within said accumulating chamber will be dispensed through said nozzle.

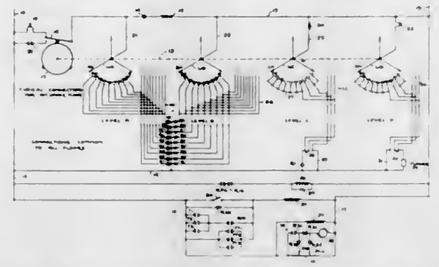
2,664,970
LIFTING TRUCK
Nathaniel Warshaw, Brookline, Mass., assignor to Market Forge Company, Everett, Mass., a corporation of Massachusetts
Application February 20, 1952, Serial No. 272,538
4 Claims. (Cl. 187—9)



4. In a lift truck, a pair of spaced fixed upright standards each having a flange extending transversely of the body of the standard and defining a bearing surface, a pair of spaced movable upright standards adjacent the fixed standards movable vertically with relation thereto, each movable standard having spaced rear and front legs extending transversely of the body of the movable standard, each leg defining a bearing surface, a load platform disposed between said movable standards having a load carrying platform laterally offset from both the movable and fixed standards, pairs of vertically elongate beds laterally and vertically offset with relation to each other and pivoted to the load platform adjacent each of the movable standards, endless chain rollers supported on each of said beds and bearing against opposite faces respectively of the rear legs of the movable standards and each bearing against its respective face at a plurality of vertically spaced points, vertically elongate bottom beds pivoted to each movable standard adjacent the lower end of said movable standard, vertically elongate top beds laterally offset from the bottom beds and pivoted to each fixed standard adjacent the upper end of said fixed standard, and endless chain rollers supported on each of said bottom and top beds bearing respectively against the bearing surface of the flange of the fixed standards and the front leg of the movable standards, and each bearing against its respective bearing surface at a plurality of vertically spaced points, whereby when the platform is loaded it can be moved vertically with respect to the movable standards and the movable standards can in turn be moved vertically with respect to the fixed standards with a minimum of friction.

2,664,971
CONTROL FOR OPERATING ELEVATOR SYSTEMS
Harold C. Crane, Toronto, Ontario, Canada
Application May 6, 1952, Serial No. 286,227
22 Claims. (Cl. 187—29)

11. A control for an elevator system serving a plurality of upper floors of a building, comprising car stopping means associated with each said floor and operable to stop a car of the elevator system at the associated floor, signalling means for each said floor from which a signal may be made when it is desired to stop a car at that floor, a stepping switch associated with each said floor and operable in response to a signal from the signalling means for the associated floor, each stepping switch having stepping means movable from a normal position to a plurality of numbered positions in succession, the numbered positions of each stepping switch corresponding to similarly numbered positions of the other stepping switches, the stepping means being movable to one of the numbered positions in response to said signal from the signalling means for the associated floor to register said signal, means coupling the stepping switches together, the coupling means including blocking means associated with the numbered positions and actuated by the stepping means of a switch occupying a numbered position to prevent the stepping means of the next operated stepping

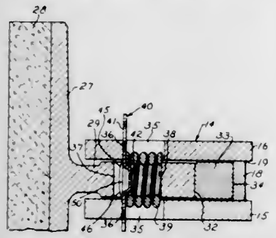


switch from moving to that position until the position is unoccupied, whereby the stepping means of the stepping switches take up consecutive numbered positions in the order in which they are operated, means for coupling a predetermined number of stepping switches whose stepping means occupy predetermined numbered positions to the car stopping means for their associated floors, the predetermined number of stepping switches operating the car stopping means to which they are coupled, means for returning the stepping means of each of the predetermined number of stepping switches from the predetermined position occupied by the stepping switch to its normal position when a car is stopped at the associated floor whereby the stepping switch is uncoupled from the associated car stopping means, thus rendering inoperative the car stopping means and the blocking means associated with the predetermined position so that the stepping means of another stepping switch can move to the predetermined position.

2,664,972
BRAKE MECHANISM
Ralph K. Super, Detroit, Mich., assignor, by mesne assignments, to Rockwell Spring and Axle Company, Coraopolis, Pa., a corporation of Pennsylvania
Application June 4, 1948, Serial No. 31,102
3 Claims. (Cl. 188—78)

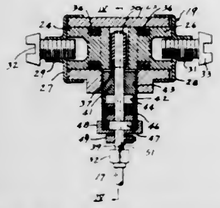
1. In a brake assembly, a brake shoe having a web formed with an aperture, a brake shoe actuating lever having spaced side walls between which said web extends and formed with apertures substantially aligned with said web aperture in the assembly, a compression spring having one end engaged with the inner edge of said web aperture, a spring retainer plate extending through said web aperture and bridging said side

wall apertures, means seating the other end of said spring on said retainer plate comprising a boss projecting from the adjacent surface of said plate, and laterally aligned cams projecting from the opposite surface of the plate at opposite side edges of the plate and each comprising a pair oppositely sloping cam faces joined by an intermediate slide face, said cam faces serving to



center the retainer plate between said side walls and being adapted to engage and ride over the adjacent edge of one of said side wall apertures to compress the spring during insertion and withdrawal of the retainer plate and spring as a unit in the assembly, said plate sliding on said intermediate slide face during said insertion and withdrawal.

2,664,973
SAFETY BRAKE SYSTEM
Arthur R. Colley, Birmingham, Ala.
Application September 14, 1950, Serial No. 184,761
1 Claim. (Cl. 188—106)

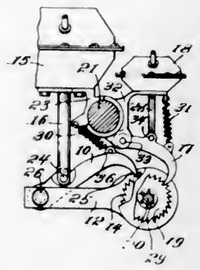


The combination with a brake system embodying a hydraulic brake shoe cylinder having a pair of pistons movable axially within the cylinder to apply the brake and a cam in the cylinder between said pistons and engageable with adjacent ends thereof to move the pistons axially within the cylinder to brake applying position, of a rotatable actuating stem carrying the cam and extending through the wall of the cylinder, there being an axially disposed opening through said stem for supplying fluid under pressure into the cylinder between the pistons, a foot operated hydraulic pressure means operable to supply fluid under pressure to the cylinder through said stem when moved through a given distance, a lost motion connector pivotally mounted on said foot operated means, and mechanical means connecting said stem to said lost motion connector and operable to rotate said cam when said foot operated means is moved more than said given distance.

2,664,974
VARIABLE SPEED GOVERNOR
James E. Russo, Norwalk, Conn., assignor to Edwards Company, Inc., Norwalk, Conn., a corporation of New York
Application July 1, 1950, Serial No. 171,671
10 Claims. (Cl. 188—187)

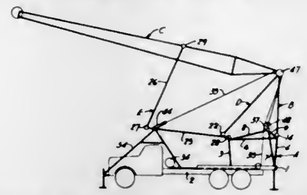
4. A speed governor comprising a rotatable shaft having a pair of companion overlying radially extending arms of which one is rigid and the other is of spring material whereby upon flexing its outer end is axially movable relative to the outer end of its companion rigid arm, the latter limiting flexing of the spring arm in one direction, each spring arm carrying at its outer end an offset weight for flexing it in a direction away from its companion rigid arm in response to rotation at sufficient speed, means providing a surface extending at right angles to the shaft and positioned in the path of axial movement of the outer ends of said spring arms when the latter are flexed in response to sufficient speed of rotation, and means movable with said spring arms for making rubbing contact with said surface.

2,664,975
AUXILIARY BRAKE CAM ROD LATCH ADJUSTER
Barnett A. Darr, Quincy, Calif.
Application November 8, 1949, Serial No. 126,223
2 Claims. (Cl. 188—196)



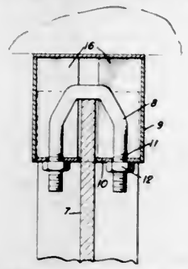
1. In an auxiliary brake cam rod ratchet adjuster, the combination which comprises a motor vehicle axle, a brake cam rod suspended from the axle, a pair of spaced floating arms journaled on the brake cam rod and extended below the axle, ratchet wheels splined on the said brake cam rod and positioned with one of the said ratchet wheels between the floating arms, a pawl pivotally mounted in the outer end of the floating arms and positioned to engage the ratchet wheel between the arms, a pressure cylinder carried by the axle and having a connecting rod pivotally connected to the said pawl, a spring connected to the pawl at one end and to the axle at the other, a second pawl pivotally mounted on the axle and positioned to engage the ratchet wheel on the brake cam rod positioned outside of the said floating arms, a second pressure cylinder carried by the axle and having a connecting rod pivotally connected to the said second pawl, and a spring connected to the outer end of the said second pawl and second pressure cylinder for urging the said second pawl away from the ratchet wheel when pressure in the second cylinder is released.

2,664,976
PORTABLE WELL SERVICING EQUIPMENT
Homer J. Woolslayer, Cecil Jenkins, and Charles D. Iddings, Tulsa, Okla., and Erwin A. Campbell, Wexford, Pa., assignors to Lee C. Moore Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 20, 1952, Serial No. 321,546
6 Claims. (Cl. 189—11)



1. Portable well servicing equipment comprising a vehicle, a reclining upper mast section above the vehicle extending lengthwise thereof and projecting from both ends of it, the rear end of said section being adjacent the rear end of the vehicle, a reclining lower mast section below the projecting rear end of said upper section with the rear ends of said sections hinged together, means mounted on the rear end of the vehicle pivotally supporting the front end of said lower section, a reclining telescoping brace having its rear end pivotally connected to the rear end of one of said mast sections, a folded lifting toggle brace reclining above the vehicle and formed from two superimposed links having their front ends connected by hinging means, means mounted on the vehicle in front of said first supporting means pivotally supporting the rear end of the lower link and the front end of the telescoping brace, the rear end of the upper link being pivotally connected to the upper mast section, a sheave carried by the rear end of one of said sections, a winch on the vehicle, and a raising line connected with the toggle brace near its hinging means and extending rearwardly around said sheave and then forward to said winch, whereby when the line is reeled in by the winch it will swing said lower mast section and the upper toggle link forward and upward to raise the reclining upper mast section to a higher elevation and simultaneously telescope the telescoping brace and then will straighten the toggle brace in order to swing said upper section upward and rearward to upright position on said lower section.

2,664,977
ADJUSTABLE CAP FOR STRUCTURAL COLUMNS
George Starcevich, Chicago, Ill.
Application July 28, 1952, Serial No. 301,261
6 Claims. (Cl. 189—42)



4. In combination, a structural column, an adjustable hollow body mounted for endwise movement on one end of the column, a U-bolt positioned internally of the body and straddling the adjacent end of the column, said U-bolt having end portions projecting outwardly of the body, and adjusting means on the outer ends of the U-bolt and engaging the body to adjust the body endwise with respect to the column.

2,664,978
MEANS FOR MOUNTING METAL WALL PANELS
Richard E. Fox, Glenview, Ill., assignor of one-half to General Porcelain Enameling and Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application May 25, 1950, Serial No. 164,193
1 Claim. (Cl. 189—88)

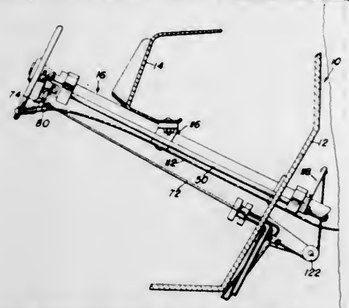


In combination with a building wall, a plurality of vertically spaced, horizontally disposed, elongated rigid strips attached to said wall, each strip having a generally central longitudinal bend therein whereby the upper portion of the strip extends away from said wall at an upwardly facing acute angle, and a plurality of metal panels each having rearwardly extending lateral, top and bottom flanges, the lateral flanges of each panel having horizontally aligned, inclined slots therein interfitting with the upper portion of a strip, the bottom flange of each panel extending rearwardly farther than said lateral flanges by a distance equal to the thickness of said strip whereby said bottom flange bears against said wall disposing said panel in general parallelism with said wall.

2,664,979
VEHICLE BRAKE, CLUTCH, AND GAS CONTROL
John W. Parent, Saratoga Springs, N. Y.
Application September 7, 1950, Serial No. 183,579
6 Claims. (Cl. 192—.094)

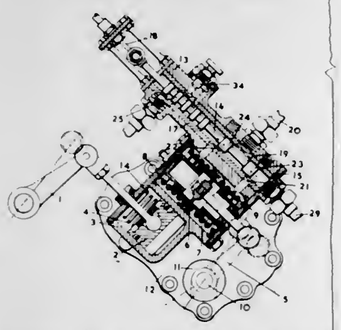
1. A combined brake, clutch and gas control apparatus for automotive vehicles comprising: a mounting means fixedly secured to a steering post housing, first means oscillatably mounted on said mounting means for engaging and disengaging the clutch, second means pivotally mounted on said first means for operating the brakes, third means rotatably mounted on said second means for operating the gas throttle, said second means including a lever arm pivotably mounted on said first means, a rod mounted for oscillation with said first means and extending downwardly beneath the floor board of the vehicle, and means connecting said rod to the clutch pedal for re-

ciprocation thereof, said first means being operatively connected to a fourth means for re-



leasably maintaining the clutch in disengaged position while shifting.

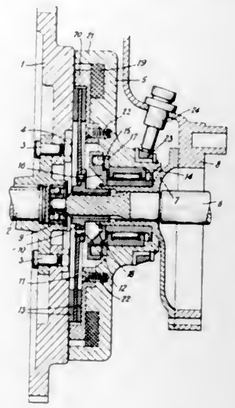
2,664,980
CLUTCH AND GEAR CHANGE OPERATING SYSTEM FOR AUTOMOBILES
John H. Weaving, Moseley, Birmingham, and Eric R. Payne, Kings Heath, Birmingham, England, assignors to The Austin Motor Company, Limited, Birmingham, England
Application February 14, 1951, Serial No. 210,858
5 Claims. (Cl. 192—3.5)



1. A cover for attachment to a transmission housing, a clutch operating cylinder and piston on said cover, a gear shifting cylinder and ram on said cover and a valve cylinder on said cover, a valve plunger mounted in said valve cylinder, means on said valve cylinder for connection to a source of fluid pressure, means providing fluid passages from said valve cylinder to said clutch and gear shifting cylinders, said valve plunger and passages being so arranged that movement of said plunger will actuate said clutch piston and said gear shifting ram in sequence for shifting gears upon movement of said plunger.

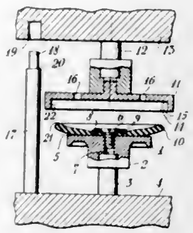
2,664,981
ELECTROMAGNETICALLY CONTROLLED FRICTION CLUTCH
François d'Ozouville, Paris, France, assignor to Siper S. A., Emsallah, Tangier, a corporation of the Tangier Zone
Application March 13, 1950, Serial No. 149,365
Claims priority, application Switzerland November 3, 1949
10 Claims. (Cl. 192—84)

1. An electromagnetically operated friction clutch having a driven part, comprising in combination, a driving shaft; a driving disc of ferromagnetic material mounted for rotation with said driving shaft, said driving disc having a friction surface; a driven shaft; an electromagnet mounted around said driven shaft so as to be freely rotatable with respect to said driving and driven shafts, said electromagnet having a body having a friction surface, said driving disc forming the armature of said electromagnet; a driven disc arrangement mounted for rotation with said driven shaft and having friction surfaces arranged between said friction surfaces of said



armature and said body; at least one spring means permanently tending to move said electromagnet in a direction away from said driving disc and said driven disc arrangement; and resilient means forming part of said driven disc arrangement and holding said driven disc arrangement apart from said armature when said electromagnet is not energized, whereby the driving and driven parts of the clutch have a small inertia when the clutch is disengaged.

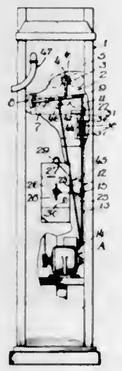
2,664,982
COUPLING DEVICE
Raúl Mariano Orzábal, Buenos Aires, Argentina, assignor to Virason Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina, a corporation of Argentina
Application October 13, 1950, Serial No. 189,957
6 Claims. (Cl. 192—105)



1. A coupling device between a high velocity rotary driving means and a driven device, which comprises a driving plate coupled to said driving means and having a substantially flat face and provided with an axial threaded bore, a flat coupling disc of larger diameter of elastic material provided with a central opening and capable of radially expanding under the influence of centrifugal forces acting thereon, a washer provided with a thickened rim and a conical central seat

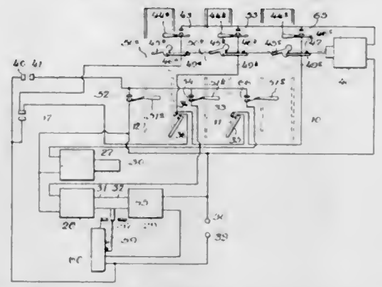
and a flat head screw to press the central portion of said coupling disc against the flat face of said driving plate to give said coupling disc a slightly concave shape and to prevent relative rotational displacements between said coupling disc and said driving plate, a driven plate coupled to said driven device and provided with a central circular flat-bottomed recess the diameter of which is slightly larger than the outer diameter of said concave-shaped coupling disc in the unstretched position, a plurality of perforations provided in the bottom of said recess, means to align said driving and said driven plates and means to vary the elevation of the bottom of said circular recess with respect to the free surface of said coupling disc to constitute, in the coupled position of the coupling device, a discoidal chamber the height of which is slightly larger than the thickness of said coupling disc, the border of said coupling disc constituting during rotation, a friction coupling in cooperation with the lateral wall of said circular recess.

2,664,983
COIN OPERATED DISPENSING PUMP CONTROL
Samuel H. Ellison, Washington, D. C., assignor of one-half to Herman E. Mitschele, Chicago, Ill.
Application December 15, 1948, Serial No. 65,479
8 Claims. (Cl. 194—3)



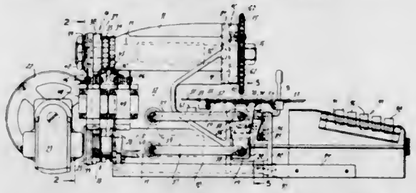
1. In a coin operated dispensing apparatus including a manually controlled and motor operated gasoline dispensing pump, a computer head, a switch for operating the motor, manually actuated means for closing the switch to operate the motor, and control mechanism for rendering the switch inoperative except upon the deposit of a designated coin, said mechanism including an eccentric connected to the computer head and rotated through one revolution each time an amount of gasoline is dispensed equal to that of a designated coin, latching mechanism connecting the switch and eccentric and automatically opening the switch at the end of each revolution of the eccentric, means for maintaining the latching mechanism engaged and the switch in open position, and a coin operated device including a manually operable handle and a trip member for disengaging the latch mechanism when the handle is turned after depositing a designated coin whereby the switch is movable to closed position to operate the pump only upon depositing a designated coin.

2,664,984
CHANGE DISPENSING MECHANISM
Jack F. Eierman, Wauwatosa, Wis.
Application August 20, 1947, Serial No. 769,620
4 Claims. (Cl. 194—10)



1. In a change dispensing mechanism having a plurality of change tubes, and a plurality of change ejecting slides; a solenoid for operating at least one of said change ejecting slides; a solenoid for returning at least one of said change ejecting slides to its normal initial position; and means for operating one of said slides one complete cycle only and for stopping said slide automatically in its normal initial position, said means including an operating circuit to energize the operating solenoid; an electrical return circuit to energize the return solenoid; a lost motion switch operator operated by movement of one of said slides; and a switch operated by movement of said lost motion switch operator to energize said return solenoid operating circuit upon movement of said change ejecting slide to its change ejecting position and operated by return of said change ejecting slide to its normal position to de-energize said return solenoid operating circuit.

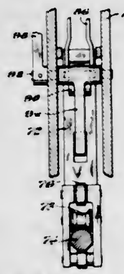
2,664,985
MARKING MACHINE
Roy Arthur Schacht, Kirkwood, Mo.
Application June 24, 1950, Serial No. 170,175
6 Claims. (Cl. 197—6.5)



1. In a marking machine, upper and lower shafts, a marking wheel carried by said upper shaft, said marking wheel having marking characters thereon, an eccentric member carried by said lower shaft below said marking wheel, an object supporting platen movably positioned between said marking wheel and eccentric member, said eccentric member moving said platen toward said marking wheel to effect an object marking operation, slip clutch means for said upper shaft, normally open clutch means for said lower shaft, motor means driving both said slip clutch and normally open clutch means, ratchet ring means fixed on said upper shaft, electrically operated ratchet lever means for said ratchet ring means to engage said latter means for stopping rotation of said upper shaft and said marking wheel in selected marking position, electrically operated clutch actuator means for closing said normally open clutch means to rotate

said lower shaft and eccentric member for moving said platen to mark the object thereon, key operated switches corresponding to each of said marking wheel characters, circuit connections between said switches and said electrically operated ratchet lever means and clutch actuator means for controlling concurrently both of the latter means to effect a marking operation with operation of a selected key operated switch, circuit interrupting means adjacent said eccentric member for interrupting the circuit established by the selected key operated switch to conclude each marking operation, and means connected into said circuits for correlating each marking wheel character with a key operated switch including stationary contact elements and a brush rotating with said marking wheel and sweeping said contact elements to complete the selected circuit.

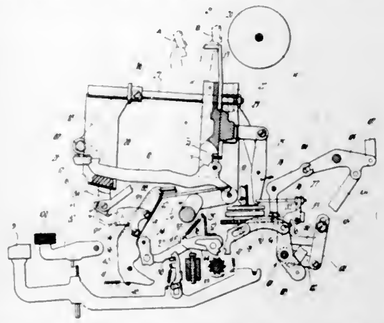
2,664,986
APPARATUS FOR COMPOSING JUSTIFIED LINES
René Higonnet and Louis Moyroud, Cambridge, Mass., assignors to Graphic Arts Research Foundation, Inc., Cambridge, Mass., a corporation of Delaware
Application September 30, 1950, Serial No. 187,752
Claims priority, application France
October 4, 1949
17 Claims. (Cl. 197—84)



3. In apparatus for composing justified lines of written matter, a device for controlling the justifying space increments to be added to a line of selected characters to be spaced in succession, comprising a lever rotatable about a fixed axis, a linearly movable follower, means for moving the follower to a position at a distance from said axis corresponding to the aggregate of said space increments, a counting device for counting said space increments by successive movements, means for holding the lever and follower in mechanical contact with the counting device after said movement of the follower, means for holding the lever rigid after said contact is established, a character displacement mechanism mechanically coupled with the follower, and means for moving said counting device by successive movements equal to but opposite in direction from said counting movements, whereby the follower is moved by successive displacements to said position.

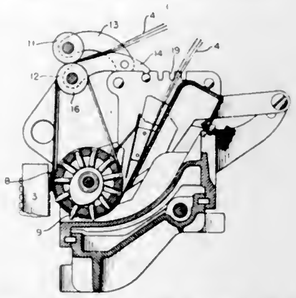
2,664,987
TYPE-ACTION-CONTROLLED VARIED LETTER FEED
Charles Schroder, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application November 21, 1951, Serial No. 257,561
6 Claims. (Cl. 197—84)

1. In a typewriting machine having a stationary structure and a letter-feeding carriage, the combination with a letter-feed mechanism for said carriage which is normally conditioned for operation to feed the carriage a certain feed increment and which is conditionable for operation to feed the carriage a different feed increment, of a case-shaftable frame, a type carrier operable on said case-shiftable frame to print by a lower case type or by an upper case type depending on whether said frame is in a lower or in an upper case position, a member carried directly on said case-shiftable frame for operation substantially transversely to the direction in which said frame is case-shiftable, means to



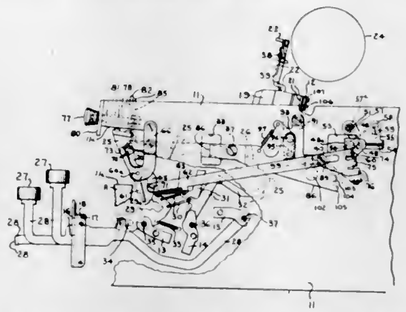
operate said type carrier in either case position of said frame and including in train with said type carrier, a sub-lever, means pivotally mounting said sub-lever on the stationary structure, a rigid projection on said sub-lever arranged to operate said member only in one case position of said frame, means operable by said member to condition said letter-feed mechanism to give forth upon its operation the said different feed increment, and means to operate the conditioned letter-feed mechanism responsive to the operation of said type carrier, said letter-feed means being conditioned by operation of said member before its operation.

2,664,988
STRIP FEEDING DEVICE
Albert W. Metzner, Dayton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio
Application June 10, 1946, Serial No. 675,592
12 Claims. (Cl. 197—133)



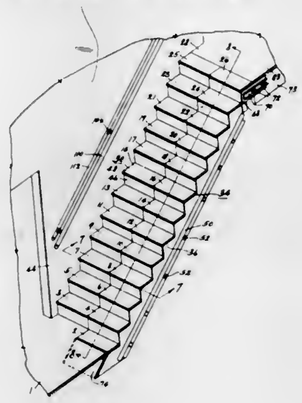
9. A strip feeding means wherein a continuous record strip having therein a succession of folds is progressively advanced past a platen roll and recording position contiguous to an ink ribbon or transfer strip, including on opposite sides of the recording position strip feeding means and strip tensioning means relative to which the platen roll is movable and which in cooperation with the platen roll maintain progressively successive portions of the strip under tension and the folds therein distended as they pass the recording position and contiguous to the ink ribbon or transfer strip.

2,664,989
RIBBON VIBRATING MECHANISM FOR TYPEWRITING MACHINES
Laurence B. Hill, Syracuse, N. Y., assignor to Smith-Corona Inc., Syracuse, N. Y., a corporation of New York
Application January 19, 1952, Serial No. 267,233
15 Claims. (Cl. 197—157)



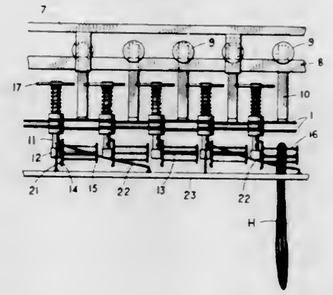
13. In a ribbon vibrating mechanism for a typewriting machine having a ribbon vibrator actuating bellcrank and means for rocking the bellcrank in one direction about its axis on the printing strokes of the types of the machine, the combination of a bracket adjustable about the axis of the bellcrank, a spring connected to the bracket and bellcrank to return the bellcrank to a rest position, and a return stop for the bellcrank held to said bracket in the path of return movement about the bellcrank axis of a part of said bellcrank.

2,664,990
OSCILLATING STAIRS
Alexander Michael Georgiev and Leonard J. Rawson, Dayton, Ohio
Application July 12, 1950, Serial No. 173,331
7 Claims. (Cl. 198—16)



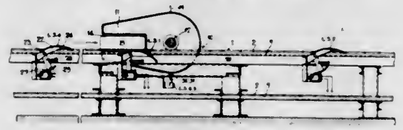
1. Transporting equipment for moving a person from one floor level to another floor level, comprising in combination, a reciprocating mechanism extending between floor levels, a fixed mechanism extending between the floor levels parallel with the reciprocating mechanism, both of said mechanisms having equally spaced foot rests extending throughout the length of the mechanisms, power means for actuating the reciprocating mechanism so that its foot rests move from one foot rest level to another of the fixed mechanisms, and then move back to the level of the first foot rest, and control means for the power means whereby a person may start and stop the reciprocating mechanism at any point along the extent of the mechanisms.

2,664,991
TRAVELING SUPPORT FOR HANK DRYING MACHINES
Joseph Dean, Harrogate, England
Application July 26, 1951, Serial No. 238,643
7 Claims. (Cl. 198—33)



1. In a machine for drying materials carried in hank form on travelling supports which are carried through the machine by a flexible carrier, the combination of a rail extending through the machine, a series of depending brackets each having a roller running on said rail, an upright spindle rotatably supported in each of said brackets, a tractive connection between said bracket and said flexible carrier, a skeleton reel rotatable supported from each of said spindles with the reel axis in a substantially horizontal position, a plurality of arms on each of said reels arranged to support the material in extended condition with the two sides of the hank spaced apart, and means associated with each of said spindles for automatically moving said reel so that its axis projects outwardly from the machine in the loading and unloading portions of its travel, but lies with its arms substantially in line with the flexible carrier whilst passing through the dryer, each of said reels when passing through the machine being moved so that the material carried thereby is positioned in a plane substantially transverse to the direction of travel of the carrier through the machine.

2,664,992
INSPECTION CONVEYER
Luther W. Bahney, Elizabeth, N. J., assignor to The American Metal Company, Limited, New York, N. Y., a corporation of New York
Application February 25, 1950, Serial No. 146,280
5 Claims. (Cl. 198—33)



1. In apparatus of the character described the combination of a flexible conveyor for conveying

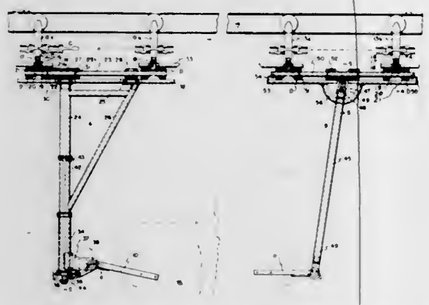
metal blocks and the like, means straddling the conveyor for receiving and turning the block bottomside up as it is conveyed through the apparatus, said means comprising a plurality of parallel wheels spaced apart side by side and secured together to rotate as a unitary structure with aligned recesses for receiving the block from the conveyor, means for rotating said wheels back and forth through 180°, a switch-tripping device adapted to be engaged by the block when it enters the recesses to actuate said last means to turn the block bottomside up, another switch-tripping device engaged by the block after it leaves the recesses for actuating said last means to return the wheels to their original position, and a switch-tripping device in advance of the turn-over wheels adapted to be engaged by the block on the conveyor before it reaches the turn-over wheels to stop the conveyor to protect the turn-over wheels if they should not be in position for receiving a block.

2,664,993

LOAD CARRIER FOR USE IN OVERHEAD TROLLEY CONVEYER SYSTEMS

Edward Mullen and Ross Harris, Detroit, Mich., assignors to Mechanical Handling Systems, Inc., Detroit, Mich., a corporation of Michigan

Application May 17, 1947, Serial No. 748,704
5 Claims. (Cl. 198—177)



1. In an overhead conveyor system of the type wherein a plurality of trolley assemblies are propelled along a conveyor track by a single drive chain, carrying means adapted to support a rigid load at points spaced longitudinally of the conveyor track and to be supported by a plurality of said trolley assemblies, said carrying means being characterized by a member adapted to rigidly fix the longitudinal position of said load relative to one of said trolley assemblies through engagement with one end of said load, and a second member for engaging the other end of said load, said second member being pivotally suspended for longitudinal movement to and from its load engaging position.

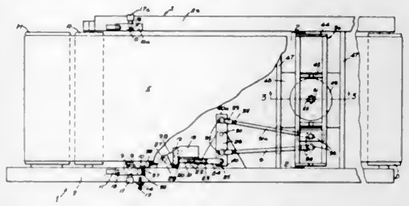
2,664,994

SELF-ALIGNING CARRIER

Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Peoria, Ill., a corporation of California

Application July 18, 1950, Serial No. 174,450
7 Claims. (Cl. 198—202)

1. A self-aligning carrier comprising spaced rolls including a troughing roll and a carrier roll, a continuous conveyor belt riding over said troughing roll in one direction and over said carrier roll in the opposite direction; said troughing roll and said carrier roll being pivoted for belt adjusting movement, a link associated with each roll, a pivot bar connected near each end to one said link, the pivot for said pivot bar being intermediate said end connections, an electric power unit operatively connected to one end of said pivot bar so that operation of said electric power unit will cause said links to move in



opposite directions thereby causing said troughing roll and said carrier roll to pivot in opposite directions and cause movement of the conveyor belt axially of said rolls; a normally-off switch associated with the edge of said conveyor belt and operative to start said electric power unit when said conveyor belt creeps out of alignment with said spaced rolls.

2,664,995

NATURAL FREQUENCY VIBRATING CONVEYER

Elmer J. Renner, Aurora, Ill., assignor to Stephens-Adamson Mfg. Co., a corporation of Illinois

Application May 24, 1950, Serial No. 164,014
3 Claims. (Cl. 198—220)



1. In a vibrating conveyor, a conveyor tray element, a balancing element spaced from the tray element, rigid levers having their opposite ends pivotally connected to said elements and fulcrumed between them on a fixed support, means for vibrating said elements, and helical spring means having its opposite ends directly connected to the tray element and balancing element and being unstressed at mid-stroke and acting alternately in compression and tension during each half cycle.

2,664,996

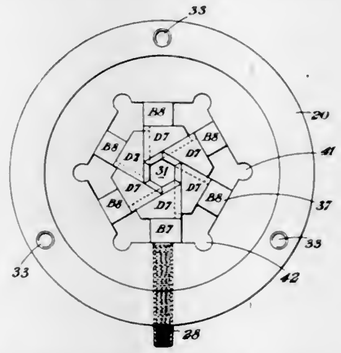
ADJUSTABLE DIE

Leonard Wilfred Andrews, London, England, assignor to Murex Limited, Rainham, England, a company of Great Britain

Application February 23, 1951, Serial No. 212,369
Claims priority, application Great Britain February 28, 1950
3 Claims. (Cl. 205—26)

3. An adjustable die comprising a set of die blocks shaped to nest together complementarily with slidable adjustment in assembly to form a die-hole having the same number of sides as the number of die blocks in the set, the said slidable adjustment enabling the assembly to be arranged to give various dimensions of the die hole, each die block having two back faces at an angle to one another such that in the assembly of die blocks each pair of adjustable die blocks presents back faces in staggered parallel relationship, a

holder formed to provide a recess having an apertured base for supporting the die blocks in assembly and having a wall to surround the assembly, the said wall having faces forming substantially the same polygonal shape, on an enlarged scale, as the section of said die, and at least one set of backing blocks adapted to be supported by said base and to be interposed in



spaced relationship between the assembly of the die blocks and said wall, a front face of each backing block being formed with parallel portions staggered correspondingly to the said staggered parallel relationship of the back faces presented by a pair of adjacent die blocks; and means for compressing the backing blocks between said wall and said assembly of die blocks.

2,664,997

PACKAGE CONTAINING N-ALKYL PYRROLIDONE-2, COMPOSITION THEREOF, AND PROCESS FOR ABSORBING ACETYLENE THEREBY

John C. Eck, Convent, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application November 10, 1949, Serial No. 126,703
12 Claims. (Cl. 206—0.7)

7. In combination a solution of acetylene in N-alkyl pyrrolidone-2 within a container for said solution, said alkyl pyrrolidone containing 1 to 8 carbon atoms in the alkyl radical.

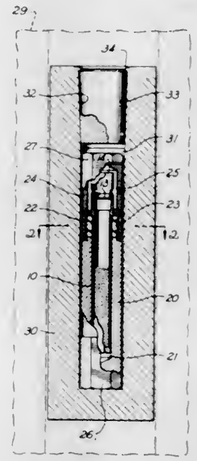
2,664,998

CONTAINER FOR NEUTRON IRRADIATED MATERIAL

John F. Gifford, Richland, Wash., and Nelson B. Garden, Berkeley, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application January 4, 1950, Serial No. 136,778
3 Claims. (Cl. 206—1)

1. A container assembly for radioactive materials adapted to be withdrawn from an expendible outer cylinder which is contaminated by contact with a nuclear reactor and comprising in combination, a relatively thick-walled, cylindrical container having an externally threaded, open end portion of reduced diameter connected to the outer, cylindrical wall of said container by an annular surface extending normally to the axis of the container, an inner cylindrical container of small nuclear total cross section closely disposed in said first container and having an external, annular shoulder seating on the open end of said first container, the portion of said inner container lying above said shoulder being formed with a conically tapered thin-walled inner bore, a puncturable cap positioned in said bore a sufficient distance from the open end thereof to provide a reservoir for a suitable reagent and retained therein by circular deformation of said bore immediately above said cap, and a hollow threaded cap engaging the open-end portion of said first container and seating against said annular surface to hermetically seal said first container.

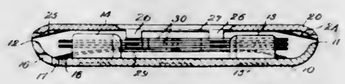


2,664,999

MAGAZINE AND BLADE COMBINATION

Louis H. Young, Auburndale, Mass., assignor to The Gillette Company, a corporation of Delaware

Continuation of application Serial No. 758,025, June 30, 1947. This application July 8, 1948, Serial No. 37,723
14 Claims. (Cl. 206—16)



2. A blade-dispensing magazine comprising a substantially rectangular shell with exit slots at both ends and a window of finger width in the top face, lugs disposed internally about the periphery of said window, and flat-sided studs projecting upwardly from the bottom of the shell being disposed in its longitudinal axis and located between said lugs and said exit slots, in combination with a stack of slotted blades threaded in alternately staggered relation on said studs, and a spring holding the stack pressed against said lugs and substantially in alignment with the exit slots of the magazine while threaded on said studs.

2,665,000

BOOK MATCHES AND COVER THEREFOR

Arnold J. Antoski, St. Paul, Minn., assignor of fifty per cent to Bobby S. Phillips, Myron, Ark.

Application December 30, 1952, Serial No. 328,768
2 Claims. (Cl. 206—29)

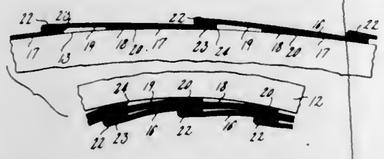
2. A match packet comprising, in combination, a folding type cover embodying a back panel, a

lower cover panel joined by a bend to the lower end of said back panel and normally occupying a position over the front face of the back panel, book matches fastened between said last named cover panel and back panel, said lower cover panel being provided between its respective ends with a slot defining a keeper pocket, said slot assisting in defining a fold line and dividing the lower cover panel into a relatively fixed lower end portion and a relatively movable upper end portion, the interior surface of the upper end portion having abrasive media which is nor-



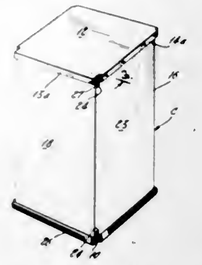
mally facing the matches but is capable of being swung outwardly and downwardly with the upper end portion against the lower end portion for stability in use, inwardly folding flaps hinged to the longitudinal edge portions of the back panel and swingable into coplanar relationship over the matches and back panel, and an upper cover panel hingedly connected at its upper end to the upper end of said back panel and foldable downwardly over the lower cover panel and having a tongue, the free end of the tongue being releasably fitted into said keeper pocket by way of said slot.

2,665,001
WRAPPED TIRE
Harold D. Corney, Dumont, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application May 2, 1950, Serial No. 159,590
1 Claim. (Cl. 206—46)



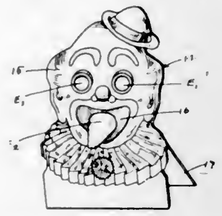
A pneumatic tire casing in the form of an annular torus having beads, sidewall and tread portions, spirally wrapped with a flat paper strip having its lateral edges folded inwardly toward each other, said edges being overlapped at the medial zone of the strip and secured together with adhesive to form a band having the form of a flattened tube, at least one marginal edge of said tube being doubly folded over to produce four thicknesses of paper at said one edge, said doubly folded one edge overlapping the other edge of the tube with successive turns of the wrapping, such overlapping being greater at the beads than at the tread, said doubly folded one edge overlying the medial zone of a previous turn of the tube at the beads, and said medial zone overlying the said other edge of the next previous turn at the beads to produce a thickness of at least nine layers of paper at said overlying edges and medial zone.

2,665,002
SHIPPING PACKAGE
Martin Baumann and Nicholas M. Sider, Chicago, Ill., assignor to International Paper Company, New York, N. Y., a corporation of New York
Application June 1, 1950, Serial No. 165,494
1 Claim. (Cl. 206—46)



A shipping package formed from paper board and comprising a cabinet-mounting skid, a cabinet mounted on said skid, a cleat secured to the back of said cabinet adjacent the bottom thereof and having its ends extending beyond the sides thereof, a second cleat secured to the back of said cabinet adjacent the top thereof and having its ends extending beyond the sides thereof, and a carton surrounding said skid, cabinet and cleats, said carton comprising a body portion of generally rectangular cross section, including front and rear wall panels and a pair of side wall panels, all of said wall panels being provided at their tops and bottoms with relatively narrow outwardly folded locking flaps, said side wall panels being provided at their upper and lower rear corners with notches receiving and retaining the projecting ends of said cleats in relatively immovable position, said rear wall panel being provided adjacent its upper edge with a relatively narrow flap portion coextensive in depth with the said notches in the upper rear corners of said side walls whereby to permit introduction of an upper cleat during assembly of said carton for shipping usage, top and bottom end closures including two-panel locking flaps around all four sides reverse folded to provide an interlocking relationship with the flaps of said wall panels, and means for securing the flaps of said end closures in said interlocking relationship with the flaps of said wall panels.

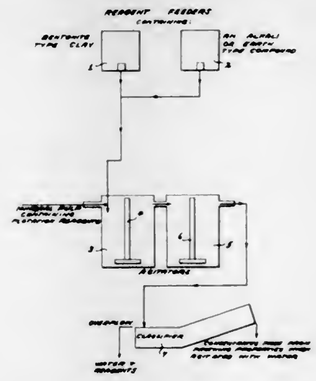
2,665,003
COMBINED DISPLAY CARD AND ARTICLES THEREON
Herman A. Feigelman, Paterson, N. J.
Application January 25, 1951, Serial No. 207,715
1 Claim. (Cl. 206—79)



A display device comprising a stiff cardboard sheet, said sheet being shaped and imprinted on

one face to define the head of an animate object, there being through apertures formed in said card and defining eye and mouth openings, and a plurality of erasers each including an outwardly tapering head and a reduced tubular portion and inserted through said eye and mouth openings, one of said erasers having its reduced tubular portion extending inwardly through said mouth opening so that its tapering head simulates a tongue, and a pair of said erasers having their reduced tubular portions extending outwardly through said eye openings to simulate eyes.

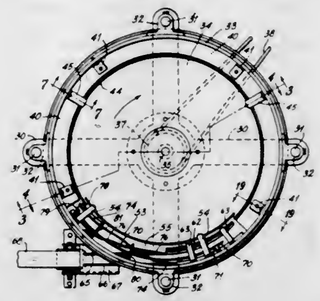
2,665,004
PROCESS FOR TREATING FROTH FLOTATION CONCENTRATES
Albert W. Zukosky, Burnsville, N. C.
Application April 11, 1949, Serial No. 86,811
15 Claims. (Cl. 209—10)



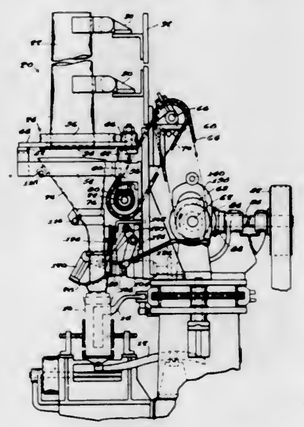
3. In froth flotation concentration operations, the improvements which consist in treating an amine-containing pulp of micaceous and feldspathic concentrates containing residual amine-containing flotation reagents with bentonite for freeing the concentrates from the residual reagents, and agitating the bentonite and pulp until the amine-containing flotation reagents are separated from the concentrates.

2,665,005
FEEDING DEVICE FOR CAPS AND THE LIKE
William J. Mundy, St. Louis, Mo., assignor to C. T. Small Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application December 2, 1948, Serial No. 63,081
5 Claims. (Cl. 209—72)

1. In a machine of the kind described, a rotatable table to receive articles in various positions and to urge them outwardly by centrifugal force, wall means around and overhanging the table providing an arcuate channel of limited height, the channel having a leading end and an outlet end determined by the movement of the table, a discharge passage from the table in the gap between the ends of the arcuate channel, a barrier across the gap between the ends of the channel to limit centrifugal movement of articles on the table, the outlet end of the channel opening outwardly beyond the barrier, means between the outlet end of the channel and the discharge passage to separate inverted articles and withdraw the same, and means to revert the withdrawn articles and deliver them to the inlet end of the channel, the barrier overlapping the inlet end of the channel so that the reverted articles are delivered to the table against the outer wall means of the channel.

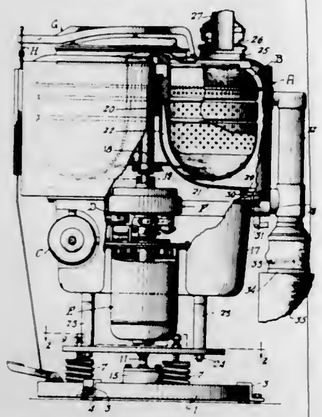


2,665,006
MATERIAL FEEDING MACHINE
Edward T. Walter, Wollaston, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application March 30, 1948, Serial No. 18,053
3 Claims. (Cl. 209—244)



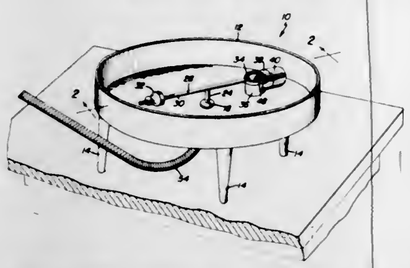
1. In combination, material feeding mechanism for feeding packable and non-freely flowing material comprising a supply hopper supporting a vertical column of material from lateral movement, an annular bracket provided with an upstanding rim, a horizontal sieve comprising a substantially planar wire mesh screen secured to the bottom of said annular bracket and disposed a relatively short distance below the mouth of the hopper and against which the lower end of the column rests, the mouth of the hopper being substantially smaller in area than the area of the screen, and means supporting and moving the sieve bodily in an orbital path in the plane of the screen at a uniform distance below the mouth of the hopper and at a uniform rate of movement to impart a constant rubbing action against the lower end of the column to thereby effect separation of the material from the column and the feeding of the same through the sieve to produce a uniform free flowing stream of said packable and non-freely flowing material.

2,665,007
MOUNTING FOR CENTRIFUGAL MACHINES
Elvin E. Hallander, West Caldwell, N. J., assignor to International Projector Corporation, Bloomfield, N. J., a corporation of Delaware
Application September 11, 1948, Serial No. 48,871
4 Claims. (Cl. 210—63)



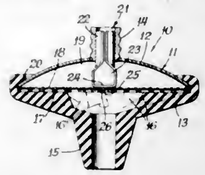
1. In a centrifugal machine, a tank, a perforated container mounted concentrically within said tank to rotate relatively to said tank about a vertical axis that is fixed with respect to said tank, means suspended on said tank for rotating said container, a normally horizontal mounting plate on which said tank is secured, a base supporting said mounting plate for tilting movement about a fixed point that lies in the line of the axis of rotation of said container, and compression springs interposed between said mounting plate and said base and yieldingly supporting the weight of said tank, said perforated container and said means suspended on the tank and resisting such tilting movement of said mounting plate.

2,665,008
CENTRIFUGAL EXTRACTOR
Howard L. Call, Ogden, Utah
Application September 12, 1950, Serial No. 184,416
1 Claim. (Cl. 210—63)



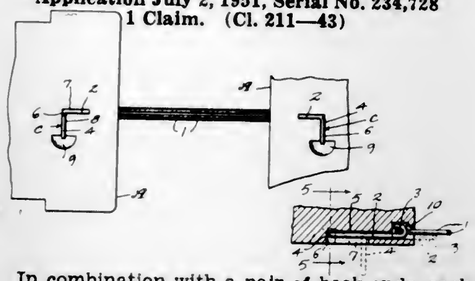
A centrifugal extractor, comprising an enclosure including a bottom and a perimetric side wall, a bearing detachably secured in said bottom, a vertical shaft removably and rotatably mounted in said bearing, means for rotating said shaft, a horizontal arm secured intermediate the ends thereof to said shaft, a material receptacle provided at one end of said arm and having an open top and an outer side wall provided with an outwardly convergent passage, a longitudinally extending collecting bowl having a drain plug carried by said receptacle and communicating therewith through said passage, a separator screen having a peripheral flange provided at the convergent end of the passage, said flange engaging the outer surface of said bowl and extending inwardly to the interior of said bowl, and an adjustable counter-balance coaxial with and threadedly secured on the remaining end portion of said arm.

2,665,009
MILK STRAINER WITH REMOVABLE BAFFLE AND CENTERING DEVICE
William H. Harstick, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application June 30, 1951, Serial No. 234,487
4 Claims. (Cl. 210—158)



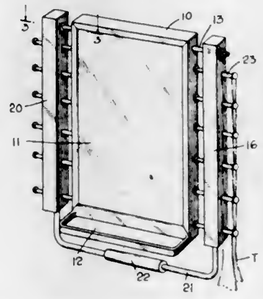
3. A strainer assembly comprising first and second generally dish-shaped casing members, said casing members having peripheral edge portions, one of said edge portions comprising a rubber-like inwardly extending flange resiliently engaging the other edge portion whereby the casing members are clampingly connected in sealing relation to provide a filtering chamber, a tubular inlet connection on said first casing member, an outlet connection on said second casing member, axially extending resilient supporting members on said second casing member, said supporting members being circumferentially spaced and projecting into said filtering chamber, a strainer disk supported on the projections and extending transversely within the filtering chamber, a flexible strainer pad seated on said strainer disk, and a tubular member connected to said first casing member, said tubular member having a portion projecting into said filtering chamber and engaging said pad for urging the pad against the strainer disk, said projecting portion including an element connected to the projecting portion, extending through said strainer pad and engaging the strainer disk for maintaining said pad against lateral displacement, said telescoping member including an opening for directing liquid from the inlet connection to the filtering chamber.

2,665,010
BOOK END
Joyce M. Sooter, Winfield, Kans.
Application July 2, 1951, Serial No. 234,728
1 Claim. (Cl. 211—43)



In combination with a pair of book ends, each formed in its base with a right-angled groove and with a transverse opening extending from one portion of said groove and terminating in an annular recess, elastic bands detachably connecting the book ends together at their bases, attaching elements for detachably securing the ends of the elastic bands to the book ends, said elements comprising wire rods slidably mounted in said transverse openings and formed at their outer ends with U-shaped hooks normally seating in said annular recesses and at their inner ends with right-angularly bent handles normally seating in the other portions of said right-angled grooves, said handles being adapted to be swung into a position perpendicular to the bases of the book ends to permit sliding movement of the attaching wire rods to a position in which the U-shaped hooks lie outside the annular recesses.

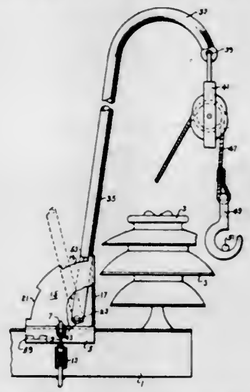
2,665,011
TIE RACK
Luther G. Simjian, Riverside, Conn.
Application September 24, 1949, Serial No. 117,537
4 Claims. (Cl. 211—99)



1. In a combination of the class described, a substantially rectangular supporting frame, a tie carrying frame comprising a pair of vertical strut portions and a horizontal connecting part, a pivot shaft supporting each vertical strut at its upper end on said supporting frame for pivotal movement relatively to the upper end of the sides of said supporting frame with said horizontal connecting part lying under the lower edge of said supporting frame when said tie carrying frame is in a normal gravity urged vertical position, a series of necktie support pins extending from each side of each strut in parallel relation to the pivot axis of said vertical struts on said supporting frame, and means on said supporting frame coacting with a part of said tie carrying frame for holding said tie carrying frame in tilted pivoted positions relatively to said supporting frame.

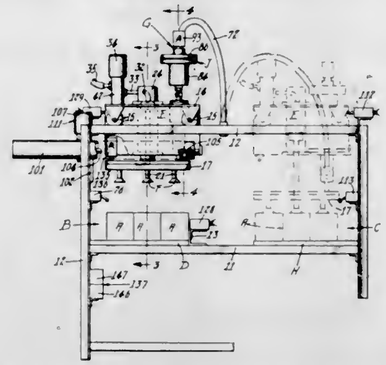
2,665,012
WIRE LIFTING CRANE
Ray McLain and Theodore A. Fornkahl, Cape Girardeau, Mo.
Application January 22, 1949, Serial No. 72,122
1 Claim. (Cl. 212—8)

In a crane, the combination of a base, clamping means for detachably mounting said base on a supporting means, a support member having axially aligned and axially spaced cylindrical guide portions, a tubular boom having a longitudinal axis, said boom having one end mounted on said guide portions for rotation and for axial translation thereon to and from a normal position, means on said boom extending into the space between said guide portions for engaging them to limit the axial translation of the boom, a pivot pin engaging said base and support member and cooperating therewith to mount said boom for movement through an arc in a plane which intersects said base, means defining diametrically opposed, axially directed notches in the end of the boom, said notches and pivot pin being engaged when said boom occupies its normal axial position and serving to hold the boom in one or the other of two rotated positions, the other end of said boom being offset from said axis, a pulley, means for mounting said pulley on said other end of the boom, stop engaging means mounted on said



boom, said stop engaging means being moved in a predetermined path as said boom moves through its arc while occupying said normal axial position and being moved out of said path when said boom is displaced from said normal axial position, and a series of stop means mounted on said base and disposed at spaced points along the path of and for engagement with said stop engaging means, said stop means and stop engaging means serving to limit the pivotal motion of said boom to any selected one of a number of segments of its pivotal arc.

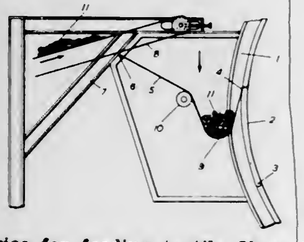
2,665,013
CONTROL MECHANISM FOR ARTICLE TRANSFER DEVICES
John E. Socke, Pelham Manor, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application June 30, 1948, Serial No. 36,177
9 Claims. (Cl. 214—1)



4. In a machine for transferring articles from one station to another, the combination of a transfer device movable between said stations,

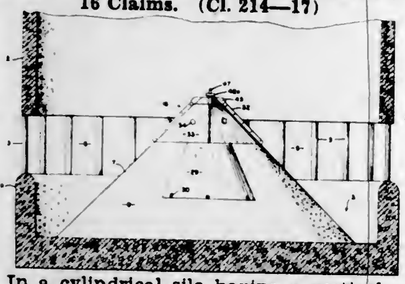
suction cup gripper means on said transfer device for engaging an article at one of said stations and for holding it during transfer into the other station, a control mechanism carried in part by said transfer device and having connection with a source of vacuum for making said gripper means effective and ineffective for holding and releasing said article, said control mechanism including pressure responsive means exposed to and actuated by a predetermined degree of vacuum for delaying movement of said transfer device with the article held by said gripper means until said predetermined degree of vacuum is reached, to insure a secure hold on said article, and means located at the second of said stations and actuated by said transfer device for engaging said control mechanism for breaking said vacuum to release said article from said gripper means.

2,665,014
ATTACHMENT FOR FEEDING WOOL
John Roberts, Bradford, England
Application June 5, 1952, Serial No. 291,908
2 Claims. (Cl. 214—17)



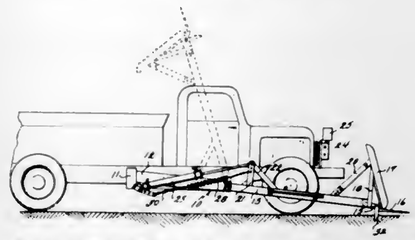
1. A device for feeding textile fibres into an agitating machine comprising, in combination, a drum, a feeding door hinged to the periphery of said drum, a sheet of flexible material, an endless conveyor for feeding fibre on to said sheet, said sheet being looped to form a receiving pocket for the fibre, one end of said sheet secured to the free outer edge of said feeding door and the other end being fixed at a point below and behind the forward end of the conveyor, the opening of said feeding door causing the sheet to tighten and remove the receiving pocket so that the textile fibre is projected through the open door into the drum.

2,665,015
LIVESTOCK FEEDER
Albert M. Best, New Holland, Pa., assignor to Sperry Corporation, New Holland, Pa., a corporation of Delaware
Application October 30, 1952, Serial No. 317,776
16 Claims. (Cl. 214—17)



1. In a cylindrical silo having a vertical axis, a frustro-conical hollow base coaxially mounted in the lower end of said silo, a vertical spindle supported in said base coaxially therewith, a conical agitator rotatable on said spindle whereby the material in said silo will partially rest on said scraper, in combination with electrically actuated drive means for rotating said scraper, a normally open control switch on the upper end of said spindle in circuit with said electrically actuated drive means, and a plunger resiliently upwardly projected through said scraper in axial alignment with said control switch, whereby pressure of silage on said plunger may actuate same to close said switch and institute rotation of the scraper.

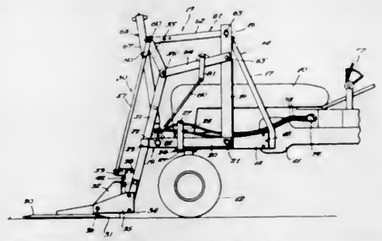
2,665,016
HYDRAULIC LOADER AND HANDLING MEANS FOR TRUCKS
Leonard W. Etchart, Glasgow, Mont.
Application December 7, 1951, Serial No. 260,505
5 Claims. (Cl. 214—78)



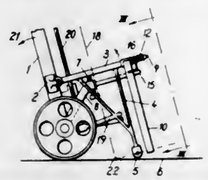
1. A work handling attachment for trucks and the like, comprising a frame for attachment to the chassis of a truck and having transverse end members connected by a pair of longitudinal side members, a working unit comprising a pair of forwardly directed one piece arms, pivotally mounted for vertical swinging movement on the forward ends of respective side members, and connected at their free ends, a corresponding pair of double acting fluid pressure operated power means pivotally mounted at the rear end of said frame and including forwardly projecting piston rods, means for selectively controlling said power means, upwardly directed, perpendicular levers fixed to respective arms, forwardly of their pivotal points, with their upper extremities terminating in a horizontal plane spaced above that of the pivotal points of said arms, braces rigidly connecting the upper ends of said levers to forward points on respective arms, the projecting ends of said piston rods being pivotally connected directly to the upper ends of said levers adjacent the brace connections, for raising and lowering said arms about their pivots, a work-engaging element carried by at least one of said arms, and spring means respectively connected at one end to the frame adjacent the pivotal mountings of said power means with their other ends connected to the upstanding levers on said arms, said spring means lying substantially parallel with respective piston rods, and being tensioned when the working unit is in lowered position, whereby they are adapted to assist the power means in raising the unit and act as a cushion when the latter approaches its extreme lowered position.

2,665,017
LOADER ATTACHMENT FOR TRACTORS
Gordon G. McNamara, Jr., Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application August 27, 1948, Serial No. 46,431
5 Claims. (Cl. 214—140)

4. A loading attachment for a tractor comprising a supporting structure connected to the tractor, a horizontally extending frame pivotally connected to said tractor; a shovel positioned forwardly of the tractor; means connecting said shovel to said supporting structure including a lifting arm; a pivot member pivotally connected to said lifting arm and to said vertical support; a hydraulic ram connected to said lifting arm and to said horizontal frame; means for actuating said hydraulic ram thereby initially moving said lifting arm upwardly in abutting relation with said frame thereby pivoting said pivot member; a tension link pivotally connected to said pivot member intermediate its ends and pivotally connected to said frame at a point remote from the pivotal connection of said horizontal frame to said tractor for moving said frame upwardly with said pivot member; a stop supported on the tractor for limiting the upward movement of said frame, said stop being constructed and arranged to limit upward movement of said pivot member, whereupon continued actuation of said hydraulic ram operates to pivot said lifting arm on said pivot member thereby moving the lower portion of said arm and said shovel outwardly and upwardly with respect to said tractor.

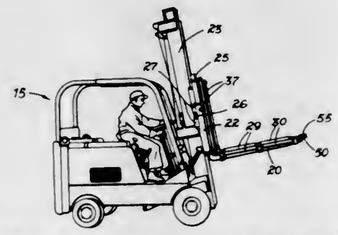


2,665,018
HAND TRUCK WITH AUTOMATIC LOAD SUPPORT ADJUSTMENT
Anastasio Puig Salsas, Badalona, Spain
Application July 9, 1951, Serial No. 235,720
Claims priority, application Spain August 7, 1950
1 Claim. (Cl. 214—371)



In a hand truck with an automatic load support adjustment, a wheeled truck frame provided with handles, means for embracing an object to be loaded to the truck being used, load support means to be urged under the said object depending on the relative position of the truck frame with respect to the floor, a gudgeon fixed to each of said handles in a substantially transverse direction to the truck and close to the lower ends of the handles, a fixed support on each of said handles, said fixed supports having adjustable stops, an oscillating arm journaled ahead of the truck, a depending portion on said oscillating arm extending towards the floor when the truck is placed in a substantially vertical position, contact means in the lower end of said depending portion to engage with the floor, both said oscillating arms and said depending portion being adapted to be supported by a corresponding adjustable stop when the truck is moved away from its substantially vertical position and to span the width of an object being loaded, each of said oscillating arms including a trunnion, a depending arm rockingly disposed on said trunnion, said depending arm having an in-turned lower end adapted to support the object to be loaded, a cam-shaped guide on said depending arm, an upper portion of said guide, elastic means operatively connected between said oscillating and depending arms to urge the latter towards the center of the truck, a strut fixed with respect to the truck frame, said strut being located to remain out of engagement with said guide to close the depending arms when the truck is tilted back and to come into engagement with said guide, thus oscillating laterally outwardly the said depending arms when the truck is moved to its vertical position.

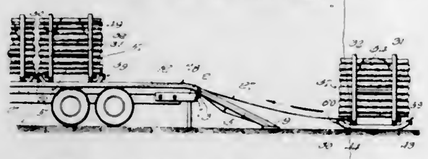
2,665,019
APPARATUS AND METHOD FOR UNLOADING LUMBER AND THE LIKE
Collins S. Lorimer, Urbana, Ohio
Application August 17, 1949, Serial No. 110,758
7 Claims. (Cl. 214—512)



1. Apparatus for use in combination with a lift fork truck for loading or unloading an elongated load by endwise movement thereof, comprising a plurality of rollers supported on the forks of said truck in upwardly spaced and generally parallel relation with said forks to receive the load thereon, releasable means for locking said rollers against rotation, means for rotating at least one of said rollers to cause movement of said load transversely of said forks, bar means having a serrated portion, means for securing said bar means to the ends of said forks forwardly of said rollers and with said serrated portion thereof uppermost in position for frictional engagement with the underside of a load, and guide members having a relatively low coefficient of friction supported on said forks in generally upright and perpendicular relation with said rollers to guide the load during said transverse movement thereof.

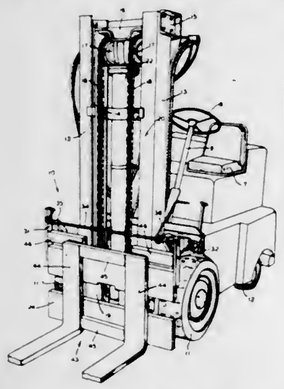
2. The method of loading an elongated load into a confined space by means of a lift fork truck which comprises the steps of carrying said load into endwise relation with said space on the forks of said truck, effecting endwise movement of said load transversely of said forks until the leading end of said load overhangs said space while said load is still supported on said forks, positioning a roller below the leading end of said load, lowering said forks until the leading end of said load is supported on said roller, moving said load transversely of said forks until the major portion of said load is within said space, then releasing said forks from said load, bringing said forks into endwise relation with said load, raising said forks to elevate the trailing end of said load, pushing said load fully into said space, and finally elevating the trailing end of said load sufficiently to effect removal of said roller and replacement thereof with a spacer.

2,665,020
SELF-LOADING AND UNLOADING VEHICLE FOR PALLETIZED LOADS
Charles E. Whittle, Brunswick, Ga.
Application November 8, 1950, Serial No. 194,672
7 Claims. (Cl. 214—517)



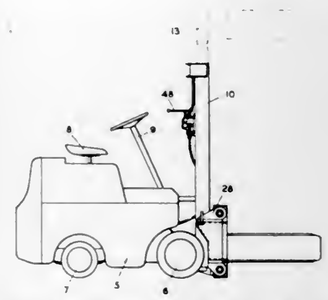
1. A pallet structure for transporting heavy loads on guide rails of a transportation unit comprising a pair of spaced longitudinally extending hollow tubular runners each having a central horizontally extending portion and an upwardly curved portion at each end thereof, a pair of transversely extending hollow tubular frame members disposed in spaced relation with respect to said hollow tubular runners, spacer members, said spacer members being recessed transversely at their lower ends to engage said runners and being recessed at their upper ends to engage said frame members, said spacer members extending vertically from said runners and establishing coupling connection with said frame members for elevating said frame members with respect to the terminating ends of said runners, means extending between said frame members and said runners for reinforcing said runners, and limiting stops carried by the terminating ends of said runners for restricting the approach of one pallet structure with respect to an adjacent pallet structure when in aligned position on the guide rails of the transportation unit.

2,665,021
ATTACHMENT LOCK FOR INDUSTRIAL TRUCKS
Delano Wight, Jr., Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application September 12, 1950, Serial No. 184,381
5 Claims. (Cl. 214—620)



1. For use with an industrial truck having a substantially vertically movable load supporting carriage, the combination of a frame member adapted to be secured to the load supporting carriage transversely thereof, load supporting means including horizontal flange means adapted to be disposed in engagement with the upper edge of said frame member, a rotatable shaft vertically spaced above said frame member and carried by the latter, a crank arm fixed at one end to said shaft and at the other end being adapted to engage said flange means for locking the latter to said frame member, means carried by said frame member for rotating said shaft whereby said crank arm is disengaged from said flange means permitting said load supporting means to be freed from said frame member by an operator on the truck lowering the load supporting carriage until the load supporting means is disposed in engagement with the ground and then backing away the truck, and said means being manually operable by an operator seated on the truck.

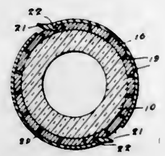
2,665,022
CLAMP MEANS FOR INDUSTRIAL TRUCKS
Elmer J. Dunham, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application July 8, 1948, Serial No. 37,606
6 Claims. (Cl. 214—653)



1. In an industrial truck having a vertical mast at one end thereof including a load supporting carriage vertically movable in said mast, telescopic means extending laterally across said carriage and having vertical arm receiving portions at the ends thereof, hydraulically actuated means on said carriage for moving said portions toward and away from each other, load engaging arms having rearwardly extending vertical web portions detachably secured in said arm receiving portions and having forwardly extending load engaging portions, said arms having intermediate vertical laterally extending web portions for offsetting said forward portions from said rearward portions whereby variations in the spacing between said arms can be obtained by selectively mounting said rearwardly extending portions in said arm receiving portions, a face plate on said carriage intermediate said portions and covering said hydraulic means and said telescopic means, and said face plate having a plurality of load engaging prongs projecting forwardly therefrom for entering into a load clamped between said arms.

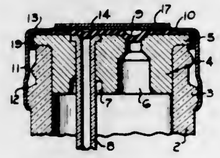
2,665,023
CONTAINER CLOSURE
Maurice Migneault, Nashua, N. H.
Application September 28, 1950, Serial No. 187,192
1 Claim. (Cl. 215—45)

In a closure for a receptacle having a neck provided with an annular bead defining an annular indentation, a disc extending across the top of said neck, said disc being made of yieldable material, a cap including a horizontally disposed body portion extending across said disc and across the open end of the receptacle, said cap further including a skirt portion provided with a plurality of slits forming a plurality of spaced fingers extending downwardly from said body portion, the inner face of each of said fingers being provided with a downwardly converging surface intersecting a downwardly diverging surface therebelow forming inwardly extending shoulders for seating in said indentation, said shoulders being arranged



intermediate the ends of said fingers, a resilient retaining ring extending around the exterior of said fingers at the lower portions thereof, said ring being arranged below said shoulders, there being a pair of diametrically opposed sockets arranged in the exterior surface of certain of said fingers, and a pair of snap latches carried by said ring for seating in said sockets, the ends of said ring being spaced from each other, said snap latches extending outwardly from said ring.

2,665,024
PHARMACEUTICAL CLOSURE
Rodney B. Puts, Burbank, Calif., assignor to Don Baxter, Inc., Glendale, Calif., a corporation of Nevada
Application January 15, 1951, Serial No. 206,013
10 Claims. (Cl. 215—46)

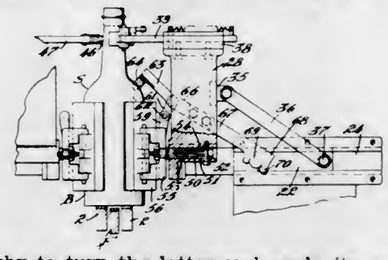


1. A closure for the neck of a container designed to hold a solution under vacuum, this closure comprising, a plug fitting said neck and having a rim, a diaphragm covering the outer surface of said plug and having its outer edge turned down over the rim of said plug, said diaphragm being formed of a metal foil rendered moisture-proof by an adherent film of plastic laminated thereto, and a metal cap having a removable central section contacting said diaphragm and having a clamping ring engaging said neck and the periphery of said diaphragm.

2,665,025
MULTIPLE-WIPER MECHANISM FOR LABELING MACHINES
Sidney T. Carter, Worcester, Mass., assignor to Geo. J. Meyer Manufacturing Co., Cudahy, Wis., a corporation of Wisconsin
Application August 7, 1951, Serial No. 240,691
11 Claims. (Cl. 216—13)

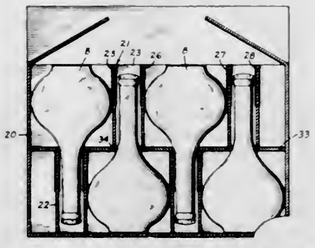
1. In combination in a labeling machine having means for supporting a bottle at a label-wiping station and wherein a horizontally movable slide carries a frame on which a body wiper pad is mounted, an L-shaped rocker one leg of which is pivotally connected to said frame, a pad for wiping a shoulder label, attached to the other leg

of the rocker, and a link of variable length for transmitting motion from the slide to the rocker



thereby to turn the latter and apply its pad to a label adherent to the shoulder of the bottle.

2,665,026
PARTITIONS FOR BOXES, CARTONS, AND THE LIKE
Abe Katzman, Bronx, N. Y.
Application November 30, 1949, Serial No. 130,149
3 Claims. (Cl. 217—22)

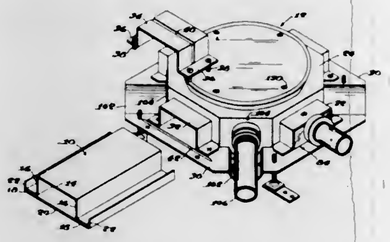


1. A container for a plurality of articles comprising a receptacle, a first group of partitions including a first pair of partitions extending along and within said receptacle in spaced apart, substantially parallel relation, second and third pairs of partitions intersecting and substantially perpendicular to the first pair of partitions, said second pair of partitions being spaced from the ends of said first pair a distance greater than the space between said second pair, said third pair of partitions being spaced from said second pair a greater distance than the space between said third pair to form, with said first pair of partitions, rows of compartments therebetween alternately of greater and lesser cross-sectional area, a separator resting on said first group of partitions and having openings therethrough in alignment with said compartments, and a second group of partitions intersecting to form compartments therebetween corresponding to the compartments formed by said first, second and third pairs of partitions, the compartments between said second group being offset with respect to the compartments between the first group to position the compartments of lesser cross-sectional area of the second group in alignment with the openings in alignment with the compartments of greater cross-sectional area between the first group of partitions.

2,665,027
UNDERFLOOR WIRE DISTRIBUTING SYSTEM
Joseph W. Wiesmann, Pittsburgh, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 7, 1946, Serial No. 708,419
1 Claim. (Cl. 220—3.8)

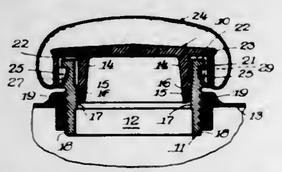
In an underfloor wire distribution system, in combination, a sheet-metal junction box having

a dish-shaped bottom wall terminating in a lateral edge defining outwardly extended flanges forming a horizontal shelf spaced above the plane of said bottom wall, and having an access opening in its upper wall provided with a removable cover member, a side wall of said box having an opening therein defined by a substantially rectangular sheet-metal entrance sleeve having a top wall and side walls projecting horizontally from the junction box and provided with outwardly extended marginal flanges, the horizontal shelf of the junction box forming the bottom wall of said entrance sleeve and extended a substantial distance beyond the end of the sleeve, an



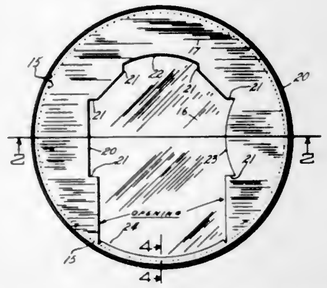
elongated unitary metallic duct member of substantially the same cross-sectional dimensions as said sleeve including the marginal flanges, one end of said duct member resting on the extended portion of said shelf in alignment with said entrance sleeve, and means connecting the duct to the junction box comprising a removable clamping member of generally inverted U-shape and spanning the adjacent ends of said entrance sleeve and said duct and being provided with laterally extended marginal portions overlying said sleeve flanges and said duct flanges, and fastening means extending through said marginal portions, flanges and shelf for rigidly connecting the duct to said shelf.

2,665,028
CLOSURE ASSEMBLY FOR TANKS AND OTHER CONTAINERS
Donald M. Hintz, Northbrook, Ill., assignor to Culligan, Inc., a corporation of Delaware
Application April 7, 1950, Serial No. 154,698
3 Claims. (Cl. 220—40)



1. A closure assembly for sealing an opening in a tank containing a fluid under pressure, comprising an upstanding sleeve in the opening in the tank and provided with an internal cylindrical reduction spaced from the upper end of the sleeve, a cap for closing and sealing the opening through the sleeve including a cylindrical flange depending into the opening in the sleeve and a resilient sealing ring carried by said flange adjacent its lower end and having sealing contact with the interior of the sleeve when moved into contact with the cylindrical surface of the reduction, notched recesses provided at spaced points about the upper end of the sleeve, a circumferential skirt depending from the cap in spaced relation with the flange to provide a downwardly opening annular recess therebetween for the reception of the upper end of the sleeve, an upstanding rib rigidly affixed to and extending diametrically across the cap for rotating the cap into locking engagement with the sleeve and provided at its opposite ends with inwardly projecting ears adapted to be received in the notched recesses at the upper end of the sleeve, and a safety catch in each recess for locking and retaining the ears against accidental displacement when the pressure within the tank is exerted against the cap.

2,665,029
CONTAINER
Walter E. Horrocks, Lakewood, Ohio
Application March 10, 1951, Serial No. 214,896
3 Claims. (Cl. 220—90)

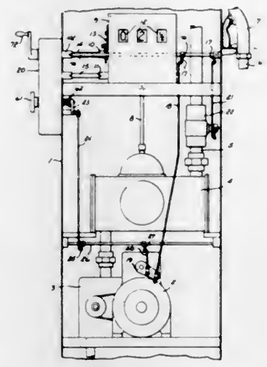


1. A measuring device of the character described, comprising a cylindrical container having a top provided with a singular opening defined by a border disposed inwardly of the perimeter of the said container, said top providing scraping means comprising a series of three different shaped recesses having straight, inwardly curved and outwardly curved bottom margins, arranged around the border of the said opening in the top in such a manner that the surplus contents of a spoon can be initially scraped off the spoon when withdrawing the spoon transversely across one of the said margins; to scrape measure either one of three different contents of a spoon or the like.

2,665,030
PRESELECTOR MECHANISM FOR LIQUID DISPENSING APPARATUS
Harold B. Vroom, Hartford, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a Connecticut corporation
Application April 13, 1950, Serial No. 155,665
14 Claims. (Cl. 222—16)

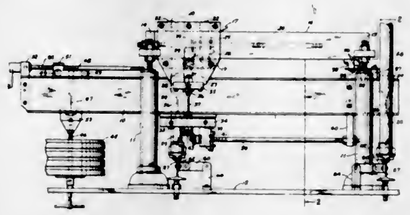
1. A preselector mechanism for use with a liquid dispensing apparatus of the type having a shut-off valve and a register provided with resetting and driving means, said preselector mechanism comprising a presettable rotatable member, means for rotating the presettable member by the driving means of the register during a dispensing operation, a rotatable cam, means for rotating the cam by the driving means of the register during a dispensing operation, a spring-loaded valve closing mechanism, means connected to the valve closing mechanism and engageable with the cam for retaining the valve closing mechanism in position for partially opening the valve, said last-named means being releasable by said cam at a predetermined rotated position of the cam, means for retaining the valve closing mechanism in position for fully

opening the valve including a trip lever operable by the presettable rotatable member at a predetermined rotated position thereof, and means



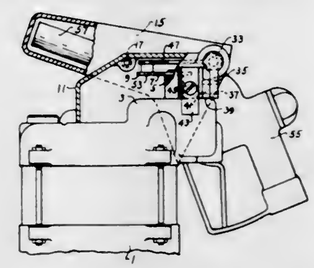
for simultaneously operating the resetting means of the register and moving the valve closing mechanism into the last named position.

2,665,031
MATERIAL WEIGHING AND DELIVERING APPARATUS
Richard E. Evans, Southport, Paul F. Darby and Thomas G. Owen, Fairfield, Conn., assignors, by mesne assignments, to Rem-Cru Titanium, Inc., Midland, Pa., a corporation of Pennsylvania
Application January 6, 1951, Serial No. 204,810
3 Claims. (Cl. 222—57)



1. Apparatus for the simultaneous and continuous delivery of materials from at least two separate hoppers in preselected gravimetric ratio comprising in combination: a scale beam having a fulcrum; means for adjusting the position of such fulcrum lengthwise of said scale beam; a pair of hoppers for such materials; means for operatively associating said hoppers with said scale beam on opposite sides of said fulcrum, the moment arms of said hoppers about said fulcrum bearing a ratio to one another in accordance with the adjustment of the position of said fulcrum; power means for effecting positive delivery from said hoppers each at a separate basic rate, such rates being at a ratio which is the inverse of the aforementioned ratio of said moment arms, said hoppers being initially charged with such material and said scale beam initially being in a balanced condition; an outfeed rate control means operatively connected to at least one of said positive delivery means for varying the basic delivery rate thereof; and means for governing said delivery rate control means in response to the extent of departure of said scale beam from a balanced position.

2,665,032
NOZZLE SUPPORT AND SWITCH OPERATOR
Burdette W. Foss, Fort Wayne, and Scott L. Hunter, Ossian, Ind., assignors to Ossian Engineering Co., Inc., Ossian, Ind.
Application February 18, 1950, Serial No. 145,026
11 Claims. (Cl. 222—74)



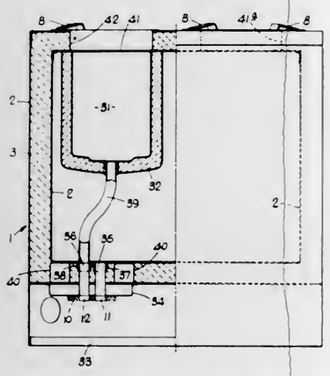
1. In a dispensing apparatus comprising an electric motor, a switch therefor having on and off positions and a dispensing nozzle, the combination of a housing for the switch, a nozzle boot fixed to the housing, a rod mounted for reciprocation in said housing and into and out of said boot and means on said nozzle positioned to be engaged by said rod when the nozzle is in the boot.

2,665,033
COLLAPSIBLE DISPENSING TUBE AND CLOSURE THEREFOR
Edwin J. Robertson, Chicago, Ill.
Application September 14, 1950, Serial No. 184,765
4 Claims. (Cl. 222—107)



1. A dispensing device comprising, in combination, an elongated, generally cylindrical tube of thin, pliable material, with one end of said tube permanently closed and the opposite end thereof flattened and sealed to provide an integral closed section extending partially across the tube to define an expansible dispensing channel therealong; with closing means comprising a pair of thin, flat, elongated, resilient transverse strips each secured to the closed section on one side only and at a point spaced from the end of the tube and on opposite sides thereof, each of said strips having a free end flap extending across the dispensing channel and adapted to bear on the wall thereof; the end of the tube being foldable back over one of said strips to close the dispensing channel, and means for holding said end of the tube in folded position.

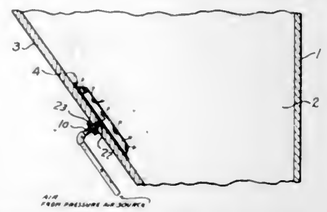
2,665,034
PORTABLE APPARATUS FOR DISPENSING BEVERAGES
Edward Harrison, Sheldon, Birmingham, England, assignor of one-half to William Henry Grady, Bourneville, Birmingham, England
Application August 24, 1950, Serial No. 181,217
Claims priority, application Great Britain March 30, 1950
3 Claims. (Cl. 222—131)



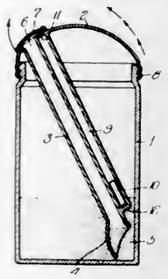
1. Portable apparatus for dispensing beverages comprising in combination, an insulated outer container for one liquid, an inner insulated liquid container for another liquid mounted within the outer container and being of lesser length than the outer container, each container having its own independent insulated walls, separate closure caps for each container, a lower open-bottomed chamber formed by the continuation downwardly of the wall of the outer container beyond the bottom thereof, a mounting support secured to said bottom, a valve fitting having two passage-ways, one for each liquid, one end of the fitting being attached to said mounting support, an outlet from the outer container leading to one of said passage-ways, an outlet from the inner container leading to the other passage-way, a common delivery pipe leading from the other end of said fitting and extending beyond the wall of the lower chamber, a plug cock having passage-ways within said fitting and interposed between the inlet and outlet ends thereof, the passage-ways communicating with the passage-ways in said fitting, a hand actuated control lever for turning the plug cock extending into the lower chamber, and an independent valve mounted in said fitting for regulating the flow of one liquid to the common delivery pipe.

2,665,035
AERATING DEVICE FOR PULVERULENT MATERIAL
George A. Schemm, Detroit, Mich., assignor to Huron Portland Cement Company, Detroit, Mich., a corporation of Michigan
Application December 27, 1948, Serial No. 67,533
10 Claims. (Cl. 222—195)

1. An aerating device adapted for aerating pulverulent material comprising in combination an imperforate flat thin metal base having an inlet therein and a web of woven fabric covering said base and secured to the peripheral edge of said base, means between the base and web for spacing a substantial portion of the web from said base whereby the fabric web and base cooperate to form a chamber adapted to receive gas under pressure through said inlet and diffuse the same through said web, said web forming a wall portion opposite to, and spaced from, the imperforate base and side walls connecting the aforementioned wall portion with the peripheral edge of said base whereby air is diffused through said wall portion opposite the base and also through said side walls.



2,665,036
DEVICE FOR DOSING POWDERED OR GRANULAR SUBSTANCES HAVING DISPENSING CONDUIT WITH A VIBRATION-PRODUCING MEMBER CARRIED THEREBY
José Victorio Riva, Buenos Aires, Argentina
Application February 23, 1950, Serial No. 145,740
6 Claims. (Cl. 222—196)

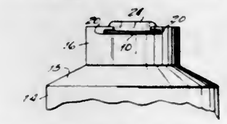


1. In a device of the class described comprising a container adapted to contain a dispensing substance, a lid for the container, a dispensing conduit positioned in said container and opening through said lid, a measuring trap on the lower end of said conduit communicating with the interior of said container, a closed chamber positioned laterally of and carried by said dispensing conduit, said chamber being confined wholly within said container, and a movable member confined in said closed chamber operable to produce vibrations in said dispensing conduit to facilitate dispensing of the substance therefrom.

2,665,037
CONTAINER
Julius Züblin, Glarisegg-Steckborn, Switzerland
Application June 17, 1949, Serial No. 99,728
Claims priority, application Switzerland August 5, 1948
4 Claims. (Cl. 222—490)

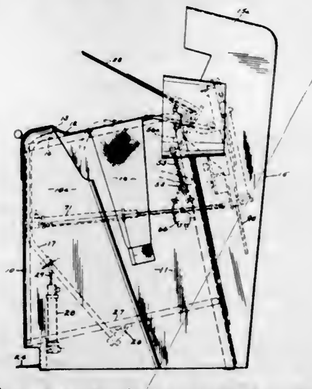
1. A container having an opening for dispensing a liquid therefrom comprising means of elastic, extensible material placed across said opening, said means being provided with an orifice remaining normally closed in the position of rest of said means due to its inherent elasticity, a sleeve securing said elastic means to the neck of the container and extending over the neck of the container for securement thereto, a cap, and pressure means on said cap, said pressure means having a duct passing therethrough and arranged coaxially to the orifice of said elastic means and resting against said elastic means from the outside thereof, and means on said cap and said sleeve in the form of a nose and a groove parallel to the axis of the container to prevent rotation.

2,665,038
COMPRESSIBLE TUBE CLOSURE
Alvah W. Fowler, Fort Worth, Tex., assignor of fifty per cent to H. L. Collins, Fort Worth, Tex.
Application February 3, 1950, Serial No. 142,299
2 Claims. (Cl. 222—561)



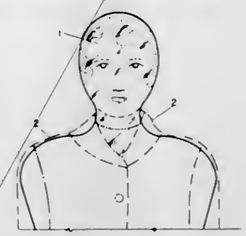
1. In a sliding closure for compressible tubes having a neck portion and in combination a depression formed transversely of the upper face of said neck portion, the combination of a channel formed in each of the opposing sides of said depression, an aperture in said depression, the said channels being partially closed on one end providing opposing stops, of a sliding plate adapted to be slidably arranged in said depression and having its edges extending into said channels, the said plate being arcuate in transverse section and having an opposing projection on each edge on one end thereof engageable with said stops to limit the movement of said plate, and a flange formed on the opposite end of said plate providing a detent opposite said projections.

2,665,039
AUTOMATIC SHIRT FOLDER
Edmund N. Neckel, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application December 4, 1951, Serial No. 259,764
10 Claims. (Cl. 223—37)



1. Folding means of the character described comprising a frame, a folding table carried by said frame, a wing support and an arm support carried by said frame, a pair of folding wings having respective axes of swing on said wing support, said axes of swing of said wings being approximately at the level of said table, a pair of folding arms having respective axes of swing on said arm support, the axes of swing of said arms being substantially below the level of said table, the wing axes being spaced to permit the wings to swingably converge inwardly to superposed folded registry and to diverge outwardly to unfolded position, the arm axes being spaced to permit the arms to be swung inwardly to folded position between the wing axes, and outwardly to an unfolded position beyond said wings, whereby, when said wings and arms are in unfolded position with the body portion of a shirt beneath said wings and with said arms beneath the shirt sleeves, sequential folding movement first of said arms and then of said wings folds the shirt longitudinally.

2,665,040
MANNEQUIN FOR WEARING APPAREL
Roy T. Reid, Miami, Fla.
Application December 3, 1951, Serial No. 259,635
2 Claims. (Cl. 223—68)

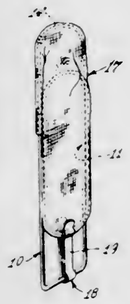


1. A mannequin for the display of wearing apparel comprising a frame simulating the outline of the human figure, including the upper portion of the body, neck portion and head portion, said body portion being adapted to carry said apparel and said head portion including a mirror on the frontal face thereof to reflect the head portion of an observer facing said mannequin whereby to promote the illusion that said observer is clad in said apparel, said body portion and said mirror being disposed in substantially a common vertical plane.

2,665,041
COMBINATION FORM FOR WASHING WOOLEN SOCKS
Daniel J. Maffucci, San Francisco, Calif.
Application January 9, 1952, Serial No. 265,571
1 Claim. (Cl. 223—75)

A device for maintaining woolen socks against shrinkage during laundering consisting of an elongated substantially rectangular frame, said frame comprising a single length of wire and having the two sides thereof mutually parallel, one end of said frame comprising a straight length of said wire at right angles to said sides, the other end of said frame comprising an outwardly arched length of said wire, a second elongated substantially rectangular frame of substantially the same width as said first frame and of shorter length than said first frame, said second frame comprising a single length of wire and having the two long sides thereof mutually parallel and having the two ends thereof outwardly arched, the width of both of said frames

being substantially equal to the width of the sock when flattened out, said second frame being adapted to be inserted into the foot of the sock with one of said ends thereof registering in the toe of the sock, the sock with said second frame therein as aforesaid being adapted to be positioned parallel with and against said first frame with said second frame lying intermediate the length of said first frame, the leg portion of the sock being adapted to be doubled back inside out over said first frame with said arched end of said



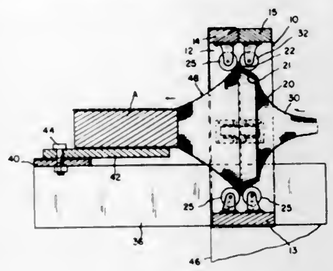
first frame registering in the doubled back leg portion of the sock and said leg portion drawn over said first frame and the adjacent portion of the foot of the sock with said second frame positioned within said foot as aforesaid and said two frames positioned in mutually parallel planes, and a clamp pivotally mounted on said straight end of said first frame between the said sides thereof, said clamp having resilient legs adapted to engage opposite sides of said toe of the sock and said one of said ends of said second frame registering in said toe.

2,665,042
FINGER RING PROTECTOR
Agatha H. Starolis, San Francisco, Calif.
Application October 30, 1951, Serial No. 253,920
3 Claims. (Cl. 224—5)



1. In a finger ring protector of the character described: a resilient hook defining a pair of coacting legs, which are interconnected by a loop; these legs having intermediate portions arranged adjacent to each other, which may be spread apart; an elongated flexible securing member having one end attached to an upper section of one of the legs; the upper section of the other leg being free, and projecting outwardly relative to the attached leg to form a catch; the hook being made to support a finger ring, or the like; and a clasp connected to the opposite end of the securing member; the clasp having an opening therein sufficiently large for allowing this clasp to be introduced over the catch, and then advanced along the legs in succession until the clasp encircles the securing member, thereby forming a loop in the latter; the catch being made to be depressed under pressure toward the upper section of the attached leg, and into a position in which the clasp may be lowered over the upper sections of both legs in encircling relation therewith to preclude accidental removal of the finger ring; the free end of the catch section being spaced laterally from the upper section of the attached leg by a distance exceeding the greatest width of the opening in the clasp so as to normally prevent accidental slippage of the clasp upwardly over the catch.

2,665,043
APPARATUS FOR APPLYING TUBULAR FABRIC TO ARTICLES
Donald R. Draper, Detroit, Mich.
Application May 31, 1949, Serial No. 96,271
10 Claims. (Cl. 226—18)

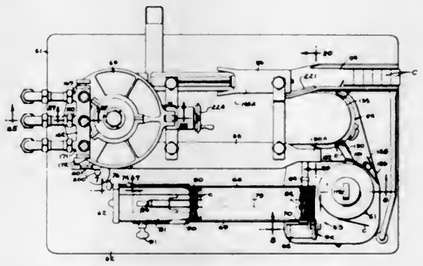


1. Apparatus for covering articles with tubular fabric material which comprises a table, an open ended frame on said table, an annular guide member located in said frame with its axis extending through the open ends of said frame, support structure in said frame mounted radially outwardly from said member and loosely engageable with opposite sides of said member, a slide movable on said table toward and away from said frame generally parallel to the axis of said member, an elongated article support secured at one end on said slide and having a free end extending toward said frame.

2,665,044
MACHINE FOR PACKAGING FLUENT MATERIAL
Charles Z. Monroe and Dwight German, Detroit, Mich., assignors to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application March 30, 1948, Serial No. 18,034
6 Claims. (Cl. 226—19)

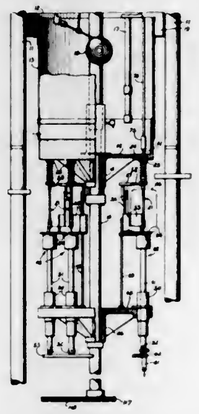
1. A machine for packaging fluent material delivered thereto in a continuous flow and comprising, in combination, a power driven conveyor having carton receptacles mounted at spaced apart intervals thereon and movable therewith, means for supplying cartons to said receptacles, a filler head assembly disposed in overlying relationship with a portion of said conveyor, rotary

valve means for producing a continuous metered discharge of fluent material into a procession of cartons moved under said filler head assembly by said receptacles, control means adapted to detect a vacancy in one of said receptacles, a flow diversion valve communicating with said



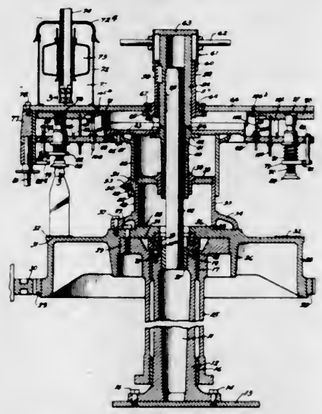
filler head assembly, said valve being responsive to said control means and adapted to promptly divert the flow of material from said rotary valve means without interrupting such flow, and means for carrying away the material diverted by said valve.

2,665,045
BOTTLE FILLING MACHINE
Edward Nowakowski, Chicago, Ill., assignor to Helene Curtis Industries, Inc., Chicago, Ill., a corporation of Illinois
Application September 28, 1949, Serial No. 118,227
3 Claims. (Cl. 226—98)



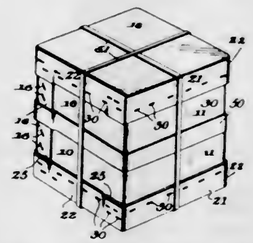
1. In a filling machine, a vertically depending valve including an open ended tubular body connected at its upper end with a source of supply and having a valve seat adjacent its open lower end, a valve element in said tubular body normally cooperating with the valve seat to close the valve, means engageable by the bottom of a container when said container is telescoped upwardly over said tubular body effective to move the valve element and open said valve, means on the body to close the filling opening of the container while the valve is open, and a vent passageway within the tubular body opening into the container below the closing means and communicating with atmosphere.

2,665,046
LIQUID DISPENSER
Lawrence M. Rogers, Chicago, and Chester A. Siver, Hinsdale, Ill., assignors to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware
Application February 2, 1952, Serial No. 269,622
12 Claims. (Cl. 226—102)



1. In apparatus for dispensing liquids into vessels, the combination comprising a plate carrying a reservoir thereon, a measuring chamber mounted beneath said plate for movement relative thereto and in sealing engagement therewith, said chamber being adapted to receive liquid from said reservoir, an aperture in said plate positioned to communicate with said chamber, and a conduit extending between said aperture and said resorvoir above the liquid level thereof to permit said chamber to be vented to said reservoir when the chamber is in open communication with said aperture.

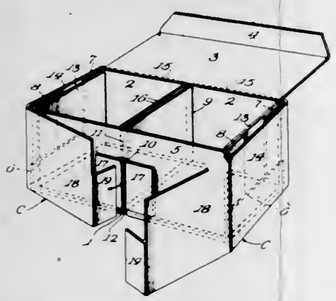
2,665,047
SHIPPING CONTAINER FOR HEAVY BULK MERCHANDISE
Jack R. Belsinger, Atlanta, Ga., assignor to Belsinger, Inc., Atlanta, Ga., a corporation of Georgia
Application November 8, 1950, Serial No. 194,677
1 Claim. (Cl. 229—14)



A shipping container of paper board material comprising a tubular inner member having connected side walls and upper and lower outer closure sections telescopingly fitting over the opposite end portions of said inner tubular member and being of such depth as to extend into substantially abutted relation, each outer section including an end cap having a central portion for closing the open end of the section and flanges

extending from each side of said central portion and overlapping the side walls of said section and fixedly secured thereto, each outer section having an end pad contacting the inner face of said central portion and shaped and dimensioned so as to extend over the ends of the side walls of the section and into engagement with the flanges whereby the means for securing the flanges to the side walls of the section will secure said pad in place in said section as a unit therewith, and provide double end walls with the ends of the inner member in substantially abutted relation with the pads when the container is closed.

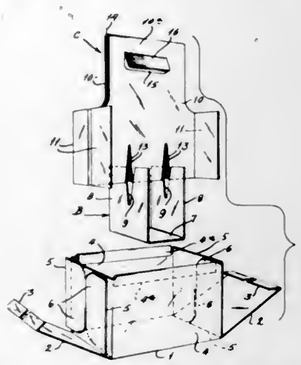
2,665,048
HEAVY-DUTY FIBER CONTAINER
Samuel P. Belsinger, Atlanta, Ga., assignor to Belsinger, Inc., Atlanta, Ga., a corporation of Georgia
Application March 23, 1950, Serial No. 151,480
2 Claims. (Cl. 229—27)



1. A foldable fiber container formed from blanks shaped, slit and scored so as to provide when assembled a container comprising a bottom having partial end portions formed integral therewith, front and rear side walls formed integral with the bottom wall, partial end walls formed integral with the front and rear side walls, each side wall having a transverse slit intermediate the ends thereof, a cover formed integrally with said rear wall, and separate blanks providing outer end walls engaging and covering the partial end walls on the bottom and side walls, each outer end wall having a half rear side wall, a partition wall and a flap, said partition walls extending through the slot in the rear wall and said flaps extending through the slot in the front wall and folded back against the outer front wall, each outer end wall having a half front side wall and a flap which extends through the slot in the front wall and between the partition walls.

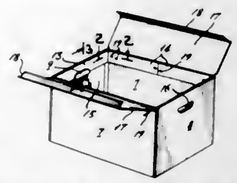
2,665,049
PARTITIONED FOLDED-BLANK BOTTLE CARRIER
Walter C. George, St. Louis, Mo., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland
Application September 23, 1949, Serial No. 117,442
2 Claims. (Cl. 229—28)

1. A bottle carrier comprising an open folded-blank box section having side walls with upper marginal flaps that are permanently secured flatwise to the inner faces thereof and end wall flaps that are folded into overlapped and interlocked engagement and a bottom panel having end wall panels that are folded upwardly against the outer faces of said end wall flaps, a transverse partition member disposed within and extending transversely of said box section with its upper edge flush with the upper edges thereof, and a longitudinal partition section having a lower portion disposed within said box section in interlocking engagement with said transverse partition section and a handle portion extending above said box section, said lower portion of said longitudinal partition section having end flanges that extend from top to bottom of said box section and seat flatwise against the inner faces of the over-



lapped and interlocked end wall flaps thereof, said end wall panels having upper marginal flaps thereon that are folded over the upper edges of said end wall flaps and end flanges and are secured thereto, said box section being adapted to hold bottles, said longitudinal partition comprising two side panels that are connected together along the upper edge of said handle portion and are adapted to bow outwardly from each other, said handle portion normally extending above the level of the bottles and being yieldable under downward pressure.

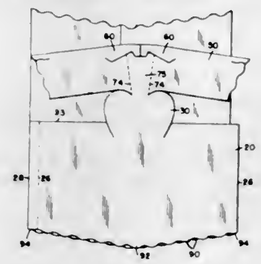
2,665,050
SHIPPING CONTAINER
Martin Baumann, Chicago, Ill., assignor to International Paper Company, New York, N. Y., a corporation of New York
Application June 1, 1950, Serial No. 165,493
1 Claim. (Cl. 229—33)



A container formed from a single cut blank of corrugated board and comprising a bottom, side and end walls and a top closure, said end walls each being three-ply and provided with a handhole located near the top edge thereof, a relatively long and narrow reinforcing flap being carried by and extending across the inner face of the associated end wall in the area between the top of said end wall and the upper edge of said handhole and being provided with extensions projecting from each corner along the inner faces of said side walls for a distance substantially equal to one-half the length of said side walls, and means for rigidly securing said reinforcing flap and its extensions to said walls whereby to

provide a reinforcement extending completely around the container adjacent the upper marginal edge portions of said walls, said top closure being formed by a pair of closure flaps formed integrally with said side walls and each closure flap having an inner flange in a substantially different plane than said closure flap.

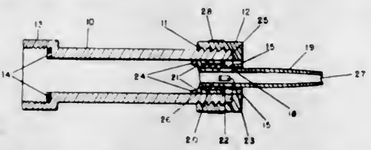
2,665,051
COMBINATION SHIRT WRAPPER AND COLLAR SUPPORT
Harry A. Tomarin, Cincinnati, Ohio, assignor to Loroco Industries Incorporated, Reading, Ohio, a corporation of Ohio
Application April 4, 1950, Serial No. 153,854
1 Claim. (Cl. 229—87)



A combination shirt wrapper and collar support for laundered shirts of the collar attached type comprising a tubular body portion including a front and a rear panel, an intermediate panel integral with and projecting upwardly from the upper edge of the front panel, a neck band engaging strip including a central portion and an outwardly projecting end portion integral with and extending outwardly from each side of the central portion, the central portion of the strip being integral with and projecting upwardly from the center upper portion of the intermediate panel remote from the front panel, the intermediate panel having a width greater than the open space between the collar wings at the front thereof to overlie the collar wings and urge the wings toward the shirt front, a plurality of tabs integral with the neck band engaging strip, the tabs being within the ends of the end portions and within the upper edge of the strip remote from the intermediate panel, the upper edge of the strip above the central portion having a slit intersecting the upper edge, the slit dividing the outer ends of a pair of the tabs, a notch in the inner edges of each tab of the pair of tabs adjacent the outer end thereof, the inner edges of the pair of tabs diverging downwardly and outwardly away from the notches toward the end of each of the end portions of the strip, the tabs extending under and engaging the collar band when the strip is placed adjacent the collar band, whereby the tabs prevent accidental or unintentional displacement of the strip from the neck band and the strip will transmit a load applied to the connection of the strip with the intermediate panel to that portion of the strip remote from the tabs.

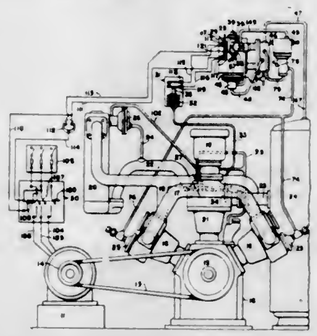
2,665,052
NOZZLE WITH RAM JET ACTION
Austin N. Stanton, Garland, Tex.
Application March 15, 1951, Serial No. 215,703
8 Claims. (Cl. 299—26)

1. In combination: a cylindrical member adapted to be connected to a source of fluid under pressure; a cap secured to one end of said cylindrical member, said cap being provided with a central aperture and a plurality of outer apertures; a nozzle member extending through said central aperture and having a flange disposed in said cylindrical member; and a spring operatively associated with said cap and said nozzle member for biasing said flange to a position remote from said cap, said member being provided with circumferentially spaced apertures and a central opening, said circumferentially spaced apertures communicating with said outer aper-



tures and the interior of said cylindrical member when said flange is in said position remote from said cap, said flange closing said outer apertures when said flange is moved toward said cap by the force exerted on the nozzle member by fluid flowing from said cylindrical member through said circumferentially spaced lateral apertures and said outer apertures and through said central aperture, said fluid flowing only through said central apertures of said nozzle member when said outer apertures are closed by said flange.

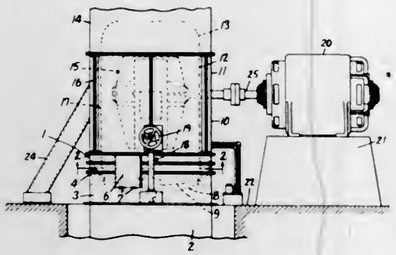
2,665,053
DUAL AUTOMATIC CONTROL FOR COMPRESSORS
Paul A. Bancel, Montclair, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application July 20, 1949, Serial No. 105,781
10 Claims. (Cl. 230—4)



1. A dual automatic control adapted to be connected to a gas compressor driven by an electric motor, comprising a controller for connection to the discharge of the compressor and acting in response to a predetermined upper discharge pressure of the compressor for unloading the compressor and acting at a predetermined lower discharge pressure for loading the compressor, an electrical switch for operative connection to the controller for controlling the operation of said motor by making and breaking the electrical circuit in which said motor is connected and being actuated by said controller to open and break the circuit when the pressure reaches said upper predetermined pressure and to close and make the circuit when the pressure reaches said

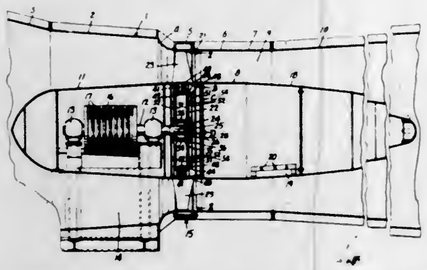
predetermined lower value, an electrical switch for connection in parallel with the first said switch, and means adapted to be mounted in thermal contact with the compressor and responsive to the temperature of the compressor for opening and closing the second said switch.

2,665,054
REPLACEABLE BLADE FAN
Hans F. Fischer, New Philadelphia, Ohio, assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application January 7, 1948, Serial No. 866
14 Claims. (Cl. 230—114)



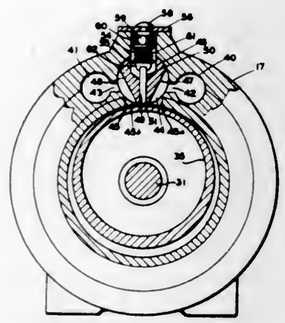
1. In a fan, a rotor having radially extending bearings in its periphery for the reception of fan blade pivots, fan blade pivots received in said bearings, means for precluding axial outward movement of said pivots in said bearings but freely permitting rotation thereof, fan blades, and means for detachably connecting one of said fan blades to each of said pivots, the detachable connecting means between said fan blades and said pivots including interlocking portions carried by said blades and by said pivots and extending transversely with respect to their axes and preventing, while in interengagement with each other, radial separation of the fan blades from said pivots but being relatively slidable transversely with respect to the axes of said pivots to effect detachment of said blades from said pivots, and means for holding said interlocking portions against relative sliding.

2,665,055
ADJUSTABLE BLADE FAN
Thomas O. Adams, Jr., New Philadelphia, Ohio, assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application November 4, 1947, Serial No. 784,043
9 Claims. (Cl. 230—114)



1. Pitch adjusting mechanism for a propeller type fan having a rotor including a hub and a rim and a plurality of blades rotatably supported by said rotor for pitch angle adjustment and projecting radially from the rim thereof, said pitch adjusting mechanism including an adjusting member rotatably mounted on the rotor, means so operatively connecting the blades to said adjusting member that the adjustment of said member relative to said rotor varies the pitch of all of the blades, means for clamping said adjusting member to said rotor and supporting the same for rotation on an axis in the same line with the rotor axis, and means including a fulcrum on said rotor and an opening in said adjusting member for permitting a lever to have an end inserted through said opening into operative relation with said fulcrum and to be swung to effect an adjustment of said adjusting member to change the pitch angle of the fan blades with respect to said hub, said fulcrum and said opening being disposed at like radial distances from the rotor axis and closer to the latter than is said rim.

2,665,056
MEANS FOR RESILIENTLY MOUNTING VANES OR FRANGIBLE PUMP ELEMENTS
Stephen G. Orban, Bloomfield, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application June 20, 1951, Serial No. 232,512
4 Claims. (Cl. 230—149)

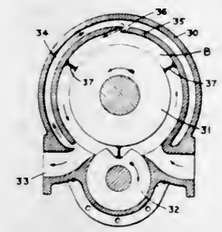


1. The combination with a relatively soft frangible element and a spring for applying a force to said element, of a button adapted to be interposed between said element and spring for transmitting force exerted by the spring to the element comprising a body, depending flanges on said body defining a U shaped channel at one end of said body for the reception of said element, said flanges serving to prevent transverse movement of said element in said channel, a convex abutment in said channel, a concave recess in said element for engagement with said convex abutment to prevent longitudinal movement of said element in said channel, and a peripheral flange on said body for engagement with said spring.

2,665,057
ROTARY BLOWER
Hellmuth Walter, Upper Montclair, N. J.
Application June 18, 1952, Serial No. 294,171
5 Claims. (Cl. 230—150)

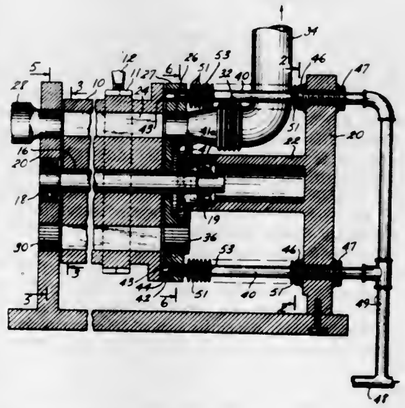
1. In a rotary blower, a casing having inlet and outlet openings therein, a rotary impeller rotatable in said casing, a plurality of radial vanes carried by said impeller and circumferentially spaced about the impeller to form gas-containing spaces within the housing which open to the inlet

and outlet openings as the impeller rotates, an abutment rotor rotatably mounted in said casing and provided with at least one vane receiving recess to receive the impeller vanes successively to cut off communication between said inlet and outlet openings, said casing having an opening therein opening tangentially in the direction of rotation of the rotor into the interior of the casing at a point which is intermediate one of the impeller vanes as it approaches said outlet and



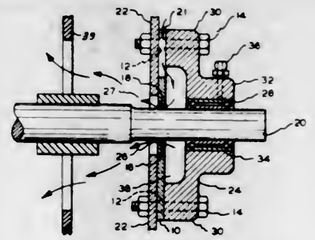
the next successive impeller vane, whereby there is always at least one vane between said opening and the blower inlet and at least one vane between said opening and the blower outlet, said casing having a passageway formed therein having an inlet opening approximately at the casing outlet and communicating with said opening in the casing to permit gas under discharge pressure to flow back into the gas-containing space between said two impeller vanes.

2,665,058
CONSTRUCTION FOR CONTROLLING CLEARANCE AND POSITIONS OF PARTS BY THERMAL ACTUATORS
Arthur Kantrowitz, Ithaca, N. Y.
Application June 1, 1950, Serial No. 166,752
22 Claims. (Cl. 230—202)



1. Motive apparatus including a stator element, a rotor element that turns about an axis, a primary conduit in each of the elements, the conduit in each element having an end that communicates with the conduit in the other element when the rotor element is in a predetermined angular position about its axis, end faces of the conduits parallel and adjacent to one another but having a clearance between them when the conduits are in communicating positions, and automatic control means for regulating said clearance in accordance with changes in the dimensions of the parts, said control means comprising a secondary conduit connected at one end to one of said elements and in a fixed relation to the end of the primary conduit in that element which communicates with the other primary conduit, an obstruction located in a position that is adjacent to an outlet end of the secondary conduit and spaced from the secondary conduit by a clearance that extends in a direction having at least a component normal to the planes of the end faces of said primary conduits, and that leaves a restricted outlet for the flow of gas from the secondary conduit, said obstruction being in a fixed relation to the end face of said other conduit so that the clearance between the secondary conduit and the obstruction is proportional to the clearance between the end faces of the primary conduits, a supply line for supplying gas to an inlet end of the secondary conduit, from a source of gas at a different temperature than the medium surrounding the secondary conduit, a fixed support to which the secondary conduit is connected remote from its outlet end, a connection between the outlet end portion of the secondary conduit and the end of the primary stator conduit for moving the end face of the primary stator conduit with changes in the length of the secondary conduit, said secondary conduit extending in a direction to increase and decrease its clearance from said obstruction and the clearance between the end faces of the primary conduits upon thermal expansion and contraction of said secondary conduit.

2,665,059
VENTILATING SHIM FOR FAN SHAFT BEARINGS AND THE LIKE
Alwin B. Newton, Jackson, Mich., assignor to Acme Industries, Inc., Jackson, Mich., a corporation of Delaware
Application November 10, 1949, Serial No. 126,578
5 Claims. (Cl. 230—211)



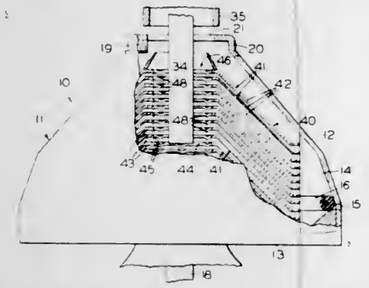
In combination with a fan and a fan housing having a wall, an aperture defined by said wall, a rotatable shaft projecting through said aperture, a bearing housing and bearing mounted on said wall in juxtaposition to said aperture and in supporting relationship to said shaft, said bearing housing defining an internal annular cavity adjacent said shaft, the provision of a ventilating shim comprising a plate, means for mounting said plate between said wall and said bearing housing, a central aperture defined by said plate and adapeted to embrace said shaft, and a plurality of open-ended slots defined by said plate, said slots being open to the edge of said plate and extending in a direction substantially toward the center of said plate for a distance between the edge of said bearing housing and the edge of said cavity.

2,665,060

POWER WASHING CENTRIFUGAL SEPARATOR WITH INDENTATIONS ALONG THE INNER PERIPHERAL EDGES OF THE SEPARATING DISKS

William H. Harstick, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application July 15, 1950, Serial No. 174,109
9 Claims. (Cl. 233—1)



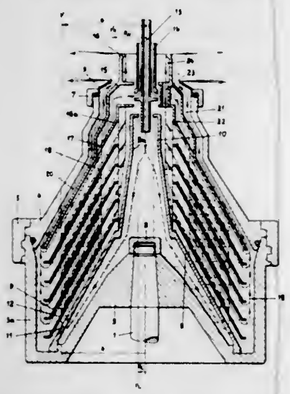
1. A separating disk for a power washing centrifugal separator comprising a frusto-conical body, a horizontal portion at the upper end of said body, said horizontal portion having an opening providing an inner peripheral edge, a plurality of indentations formed in said edge providing a plurality of circumferentially spaced edge sections, each edge section extending spirally with respect to the axis of the disk and in the same direction to provide a plurality of liquid engaging portions.

2,665,061

COUNTERCURRENT EXTRACTION CENTRIFUGE

Peter Steinacker and August Böyng, Oelde (Westphalia), Germany

Application November 19, 1949, Serial No. 128,408
Claims priority, application Germany November 20, 1948
13 Claims. (Cl. 233—15)



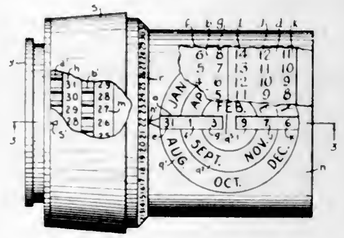
1. A countercurrent extraction centrifuge comprising a centrifugal drum having a multiple number of spaced-apart parallel discs positioned therein at an acute angle to the axis of rotation of the centrifuge, and dividing the interior of said drum into multiple liquid flow channels, said discs being positioned to leave the central and outer portion of the interior of said drum substantially disc-free, said discs having an inner and an outer series of openings collectively defining a first and a second liquid passage therethrough, said first liquid passage positioned from the top to the bottom of the interior of said drum near the central portion thereof, said second liquid passage positioned from the bottom to the top of the interior of said drum near the outer portion thereof, first conduct means positioned for passing a specifically heavier liquid into said drum downward through said first liquid passage and over the surfaces of said discs, second conduct means positioned for passing a specifically lighter liquid upward through said second liquid passage and over the opposite surfaces of said discs, whereby the two liquids are contacted at said first and second liquid passages and in said flow channels between said first and second liquid passages, first discharge means positioned for discharging specifically heavier liquid from said disc-free outer portion of the interior of said drum and second discharge means positioned for discharging specifically lighter liquid from said disc-free central portion of the interior of said drum.

2,665,062

DEVICE FOR THE INDICATION OF THE FERTILITY PERIOD OF WOMEN

Paul Adler, New York, N. Y.

Application September 18, 1951, Serial No. 247,098
8 Claims. (Cl. 235—87)



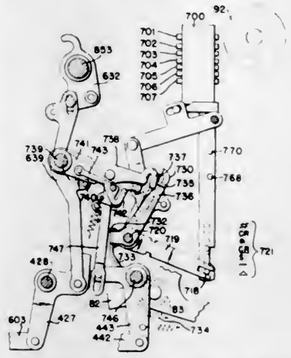
1. A device for the determination of the fertile period of women comprising a first group of the two mutually movable members having number rows, one of these members being provided with a row of numbers denoting in days the shortest menstruation cycle of the individual woman in a period of time of at least six months and with adjacent number rows denoting the initial dates of the fertile period within the various month groups having an equal number of days, the second member being provided with a row of numbers denoting in days the longest menstruation cycle of the individual woman in a period of time of at least six months and with adjacent number rows denoting the end dates of the fertile period within the various month groups having an equal number of days, said two members being mutually adjustable depending upon the individual cycle variation of the individual woman in such a manner that the number denoting the shortest cycle will be aligned with the number denoting the longest cycle, a third movable member provided with numbers 1–31, said third member being adjustable relative to said first two members in a position where an index on the third member is aligned with the numbers denoting the shortest and the longest menstruation cycle of the individual woman and a movable mask having an indicator mark and adapted to be aligned with one of the numbers 1–31 of said third member, this mask being provided with at least one slot through which the initial and the end dates of the fertile period are visible.

2,665,063

SYMBOL-PRINTING MECHANISM

Nelson R. Frieberg and Oscar F. Larsen, Ithaca, N. Y., assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application June 29, 1950, Serial No. 171,119
17 Claims. (Cl. 235—60.17)



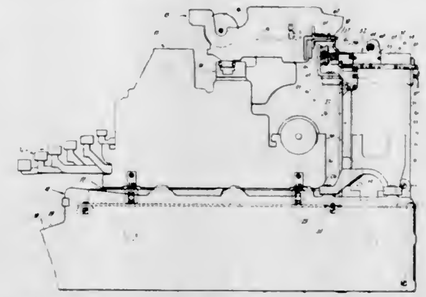
1. In a machine of the class described, the combination of a main operating means operable in machine cycles; a totalizer having a series of denominational order elements into which amounts may be entered additively or subtractively; mechanism for entering a unit of data in the lowest order element of the totalizer when the highest order element of the totalizer passes through zero on an amount entry accompanied by a change in the algebraic sign of the amount in the totalizer; amount selecting devices; differential means operable on a cycle of operation for entering the amount selected on the selecting devices into the totalizer; add control means operable to cause an operative cycle of the machine and the entry of the selected amount into the totalizer additively; subtract control means for causing an operative cycle of the machine and the entry of the selected amount into the totalizer subtractively; total control means operable to cause a two-cycle operation of the machine in which the amount in the totalizer is removed and set up in the differential means, be it positive or negative; sub-total control means operable to cause a two-cycle operation of the machine in which the amount in the totalizer is removed, set up in the differential means and replaced in the totalizer be it positive or negative; an amount printer having denominational type carriers and operable in amount entering cycles and in the second cycle of total or sub-total operations for printing the amount entered into or removed from the totalizer, including means for causing the printing of negative amounts in a distinguishing color; non-add control means operable to cause an operative cycle of the machine in which a selected amount is set up in the differential and printed but not entered into the totalizer; a symbol type carrier having a separate type for each of the operations of adding an amount which is the amount first entered after a total-taking operation, an entry of a negative amount, a sub-total of a positive amount, a sub-total of a negative amount, a total of a positive amount, a total of a negative amount, and a non-add operation, said type carrier being moved to bring to a printing station, during a given operation, the type representing such operation, and said type carrier having a formation thereon; printing actuating means operated in a subtract amount entering or non-add operation cycle and in the second cycle of a total or sub-total operation to cause the symbol type associated with such operation to print; normally ineffective means to operate the symbol printing actuating means but rendered effective during a total-taking operation, by reason of the position of the formation on the symbol type carrier in such total-taking operation, for use in a subsequent operation, said means being rendered ineffective if the operation next subsequent to a total-taking operation is a subtract operation or a sub-total operation whereby a symbol appearing after an added amount indicates the totalizer has previously been cleared.

2,665,064

AUTOMATIC CONTROL FOR ACCOUNTING MACHINES

Arthur H. Sharpe, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware

Application November 18, 1950, Serial No. 196,450
4 Claims. (Cl. 235—60.5)



1. An accounting machine comprising a typewriter surmounting a computing base, a plurality of function controlling elements associated with said base, a trackway, means securing said trackway directly to said base and supporting said trackway in proximity to said elements, a control unit mounted upon said trackway, said control unit comprising a plurality of column control devices for cooperating with said function controlling elements, a tabulatable carriage for said typewriter and interengaging means on said carriage and said control unit for connecting said control unit to said carriage whereby as said carriage is tabulated to various columnar positions the different column control devices will become effective upon the function controlling elements.

2,665,065

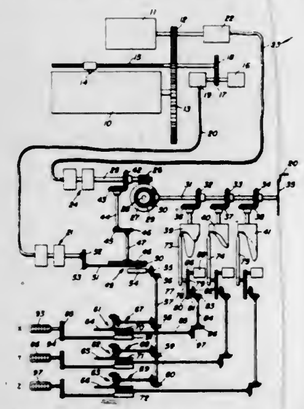
COMPUTER FOR INTEGRATING TRISTIMULUS VALUES

Hugh R. Davidson, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application February 5, 1948, Serial No. 6,541
4 Claims. (Cl. 235—61)

1. A computer attachment for use with a spectrophotometer for simultaneously integrating the tristimulus values for light transmitted or reflected from a colored object at the same time as the spectrophotometric curve for that light is pro-

gressively graphically recorded by a recording spectrophotometer having a carrier for a record receiving medium, a motor for advancing said carrier and medium in accordance with changes in wavelength of light incident on the specimen and a second motor for moving a stylus along the record receiving medium to record the transmittance or reflectance of the specimen, which comprises a first integrator means and a plurality of terminal integrator means, each of said integrators having two variably driven elements, means interconnecting the motor for moving the stylus to one variable element of the first integrator for variably positioning it in accordance with movements of the stylus, and means interconnecting the wavelength motor to the other variable element of the first integrator for variably positioning it in accordance with the progression of the record receiving medium, means for simul-



taneously moving one variable element of each of the terminal integrators comprising an interconnecting drive means from the output side of said first integrator to the said variable elements, and means for controlling the position of the other variable element of each of the terminal integrators which comprises a cam for each integrator, said cams respectively having contours cut according to the values $E\bar{x}$, $E\bar{y}$, and $E\bar{z}$, where E=the spectral distribution of the illuminant and $\bar{x}$, $\bar{y}$, and $\bar{z}$ are the tristimulus values of the equal energy spectrum, means for moving said cams to follow the wavelength movements of the record receiving medium, follower means for the cams and connecting drive means therefrom to the said other variable elements of the terminal integrators, and a counter at the output side of each terminal integrator from which the tristimulus values may be read.

2,665,066

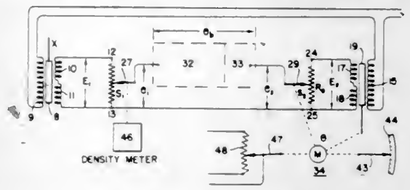
ELECTRIC CALCULATING CIRCUITS

Anthony J. Hornfeck, Lyndhurst, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Original application December 1, 1945, Serial No. 632,216. Divided and this application October 4, 1950, Serial No. 188,433

1 Claim. (Cl. 235—61)

In a flow meter compensating and recording system, in combination, a pair of three coil reactors each having a primary energized by alternating current, two opposed secondaries and a core movable through a predetermined range to change the output of the secondaries from zero to a predetermined maximum with a linear relation between core position and output potential; means to move one of said cores to provide a potential representative of the square of a flow measuring variable in terms of a ratio to said maximum; an adjusting potentiometer across the output of the secondaries controlled by said core; means to adjust the slider of said potentiometer to a ratio of the maximum output thereof representative of a variable modifying the flow measuring variable; a slider equipped potentiometer shunting the secondary of the other reactor; the output of the two



potentiometers being connected in circuit in opposition; reversible motor means adapted to be operated in speed and direction in accordance with the direction and unbalance of potential in said circuit; said motor being arranged to balance said circuit by simultaneously adjusting the core of the second reactor and the slider of the second potentiometer both to the same ratio whereby the square root of the said first variable as modified by the second variable is extracted; and means actuated by said motor to directly indicate on a linear scale the value of said modified variable.

2,665,067

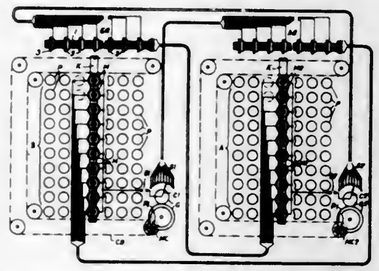
APPARATUS FOR EFFECTING A DESIRED SEQUENCE OF OPERATIONS

Atalla Megalli Wassef, Giza (Ormon), Egypt

Application April 26, 1950, Serial No. 158,211

Claims priority, application Great Britain April 29, 1949

2 Claims. (Cl. 235—61)



1. Apparatus for storing and reproducing information including a storage register unit comprising a plurality of wheels, at least one conductor and one slip ring carried by and electrically insulated from each of said wheels, a spindle common to said wheels, a plurality of elongated conductors carried by and insulated from said spindle, means for rotating said wheels, said elongated conductors being so disposed in relation to the conductors carried by said wheels, that on rotation of said wheels conductors carried thereby engage said elongated conductors in succession, electromagnetic devices arranged to perform an operation such as the depression of keys of a calculating machine, a selector switch in circuit with said electromagnetic devices for energizing said electromagnetic devices, a source

of electric current supply adapted to be connected to said electromagnetic devices by said conductors carried by said wheels and said elongated conductors, and means operatively associated with said electromagnetic devices and said selector switch for traversing said electromagnetic devices back and forth with respect to the keys of a calculating machine.

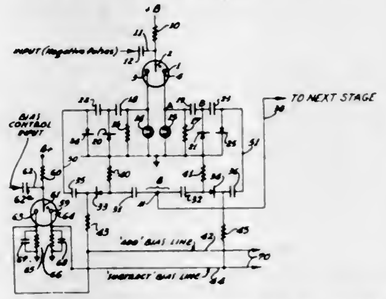
2,665,068

ADD-SUBTRACT BINARY COUNTER CIRCUIT

Charles R. Williams, Hawthorne, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application August 18, 1950, Serial No. 180,255

6 Claims. (Cl. 235—61)



1. In an add-subtract multi-stage binary counter, a flip-flop circuit stage including a tube comprising an envelope, a pair of cold cathodes and an intermediate anode in said envelope, a filling of gas at glow discharge pressure in said envelope, a limiting resistance, a source of potential higher than the firing potential of said tube connected between said anode and both of said cathodes in series with said limiting resistance, an input line connected to apply an input pulse to said anode, a two-electrode glow tube connecting each of said cathodes to the negative end of said potential source, an RC circuit connected to each of said cathodes, a pulse inversion circuit means coupled across the output of each of said cathodes, means for gating pulses generated at one of said cathodes, to obtain add carry pulses, and for gating pulses generated at the other of said cathodes, to obtain subtract carry pulses, for the next flip-flop stage.

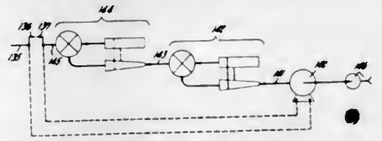
2,665,069

EQUATION SOLVING MECHANISM

Lewis W. Imm, Pacoima, Calif., assignor to Librascope, Incorporated, Burbank, Calif., a corporation of California

Application May 7, 1947, Serial No. 746,512

8 Claims. (Cl. 235—61)



3. In a computer, the combination of a differentially adjustable value entering device, a servo-motor control including a pair of differentially adjustable, value-representing, follow-up elements, an operating connection between said value entering device and one of said adjustable elements, mechanical - movement - transmitting computing means having an input member and an output member; said computing means being incapable of being driven throughout its entire range by power applied through said input member, an operating connection between said input member and the other of said adjustable elements, a servo-motor, and operating connection between said servo-motor and said output member, through which output member said computing means may be driven throughout its entire range, means jointly controlled by said adjustable elements for initiating operation of said servo-motor whenever the values represented by the respective positions of said follow-up elements are unequal and arresting such operation when said values are equal, and result registering means driven by said servo-motor.

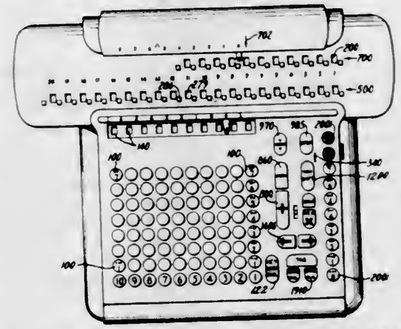
2,665,070

BINARY-OCTAL-DECIMAL COMPUTER CALCULATING MACHINE

Harold T. Avery, Oakland, Calif., assignor to Marchant Calculators, Inc., a corporation of California

Application November 16, 1950, Serial No. 196,047

6 Claims. (Cl. 235—79)



1. In a calculating machine having a keyboard, an accumulator register, differential actuators controlled by the keyboard to actuate said register, and a counter register; the combination of, numeral wheels in the accumulator register each having eight indicating positions and actuated selected amounts by said actuators, and carry-over mechanism between said numeral wheels operable in the octal system and effective upon movement of a numeral wheel through eight digital units to move the next higher order numeral wheel one digital unit, with numeral wheels in the counter register each having ten indicating positions, and tens carry mechanism between said counter numeral wheels operable in the decimal system and effective upon movement of the numeral wheel through ten digital units to move the next higher order numeral wheel one digital unit.

2,665,071

STOKER APPARATUS

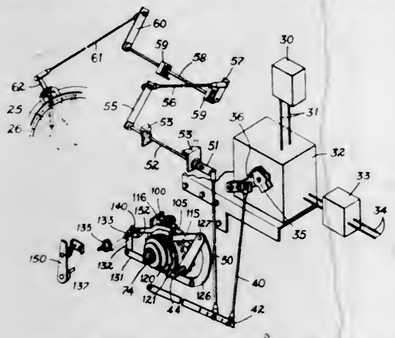
Delmond L. Getz and Edward C. Lafferty, Springfield, Ohio, assignors to The Steel Products Engineering Company, Springfield, Ohio, a corporation of Ohio

Application November 14, 1949, Serial No. 126,962

8 Claims. (Cl. 236—73)

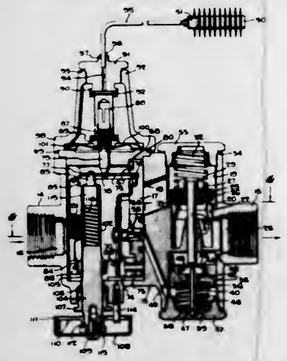
1. A stoker system operable to provide a variable rate of fuel supply in a selected number of uniform feeding strokes of a fuel feeding member during an interval and under control

of a modulating device responsive to a heat condition to be maintained, comprising a main drive ratchet connected to said fuel feeding member for operation thereof, a main drive pawl adapted for operating engagement with said main drive ratchet, means for continuously oscillating said main drive pawl to produce a series of uniform feeding strokes of said feeding member when said pawl is in engagement with said main drive ratchet, an interference arm for retaining said main drive pawl out of driving engagement with said main drive ratchet, a timing cam rotatable separately from said main drive ratchet and having a series of steps thereon ranging from a



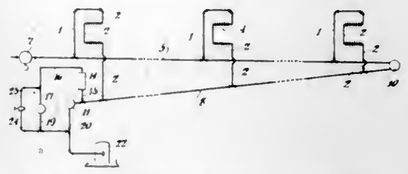
minimum to a maximum in small increments, means operated by said oscillatory means for producing uniform periodic advancing movements of said timing cam in response to each said oscillatory movement, a cam follower, means actuated by said modulating control for adjusting said follower in predetermined position relative to said cam to be engaged by a portion of said steps in the course of the revolution thereof, and linkage connecting said cam follower with said interference arm to cause said interference arm to be withdrawn allowing said main drive pawl to engage said main drive ratchet during the period that said cam follower is raised by the steps of said cam.

2,665,072
VALVE FOR CONTROLLING THE ADMISSION OF REFRIGERANT TO EVAPORATORS
William A. Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California
Application February 28, 1949, Serial No. 78,876
4 Claims. (Cl. 236—80)



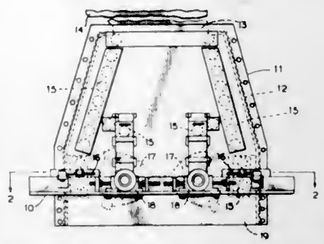
1. In a valve structure: a valve body having an inlet passage and an outlet passage; means forming a valve seat between the passages; a valve closure cooperating with the seat; a stem extending through the seat and connected to the closure for forcing the closure away from the seat; and means for moving the stem, comprising a piston; said piston having a restricted port between opposite sides thereof; and means for admitting fluid to one of said sides of the piston to urge the piston to valve opening position; said body having means forming a port between the other side of the piston and said outlet passage, said piston when in valve opening position serving to close said port.

2,665,073
HEATING SYSTEM
John A. Dondero, New York, N. Y.
Application February 17, 1949, Serial No. 77,030
3 Claims. (Cl. 237—67)



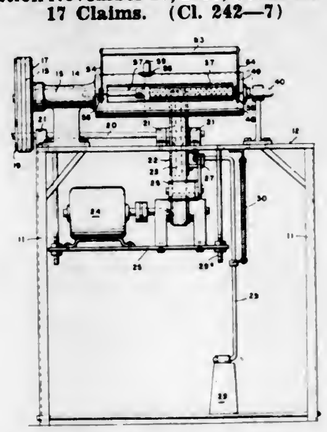
1. In a steam heating system having a plurality of heating means each comprising a continuous conduit connected across a supply line and a return line and each being devoid of flow impeding means and forming substantially unrestricted passages for steam flow from the supply line to the return line, a thermostatic trap connected with a discharge end of said return line at a location below the connections of said conduits with said return line for passing condensate to a discharge conduit but barring passage of steam, a chamber at a higher elevation than said thermostatic trap connected with said return line at a location between said thermostatic trap and the connections of said conduits with the return line for removing steam from the return line and cooling it, an outlet conduit from said means, a second thermostatic trap connected with said latter outlet conduit adapted to pass steam cooled by said means to a discharge conduit, and discharge conduits for connecting each of said thermostatic traps with means such as a vacuum pump.

2,665,074
DOUBLE IMPELLER IMPACT BREAKER
Norman H. Kessler and Hans I. Hansen, Cedar Rapids, Iowa, assignors to Lee H. Kessler, Springville, N. Y.
Application August 3, 1950, Serial No. 177,527
2 Claims. (Cl. 241—80)



1. A stone breaker, comprising spaced supporting members, a casing mounted thereon defining a breaker chamber for the introduction of the stone to be reduced and for the discharge of the reduced stone, impellers having impact blades thereon disposed in opposing side by side relation in the lower portion of said casing-chamber and spaced from the end walls of the casing, a series of spaced impact bars above the impellers and disposed along the end walls of the casing in spaced relation thereto, adjustable pillow blocks for said impellers mounted on said supporting members, means applied to said members and operatively engageable with opposite sides of the pillow blocks for adjusting the impellers toward and from each other for varying the end to end clearance between the opposing impeller blades in a plane parallel to a plane passing through the center lines of the impellers, and means adjustably mounted on said casing adjacent the end walls thereof for movement horizontally toward and from the companion impellers and having spaced impact bars thereon disposed in the spaces between the impellers and the casing walls and constituting a continuation of said series of impact bars.

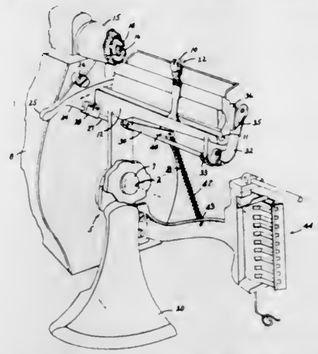
2,665,075
MANUFACTURE OF OIL FILTERS
Jesse A. Baldwin, Ashland, Wis., assignor, by mesne assignments, to Reconstruction Finance Corporation, Denver, Colo., a corporation of the United States
Application November 17, 1950, Serial No. 196,203
17 Claims. (Cl. 242—7)



1. A filter-body winding machine comprising, in combination, a rotary mandrel, a tubular screen member adapted to form the core of said filter body disposed on but separable from said mandrel, a releasable driving connection between said mandrel and said screen member for positively driving the latter, end disks for defining the ends of the filter body mounted on said mandrel and being spaced the axial dimension of the filter body, means for securing said end disks against rotation, and means for rotating said mandrel.

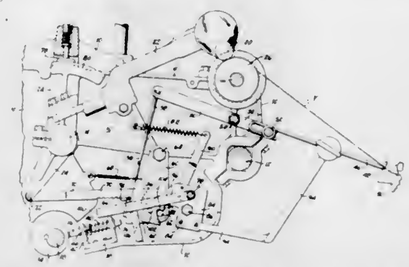
2,665,076
THREAD GUIDE PRESSURE REGULATOR
William H. Shontz, Lewistown, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application June 22, 1950, Serial No. 169,616
7 Claims. (Cl. 242—18)

1. In a winding machine having a winding spindle and a pivotable frame for supporting a reciprocable thread-guide in contact with the outer surface of the strand package being wound on the spindle, a friction member having an arcuate surface in substantially concentric relationship with the pivotal axis of the frame, a friction element swingably supported on the frame in contact with the arcuate surface of the member, a shaft for supporting the element, said shaft being rotatably supported by the frame in spaced and generally parallel relationship



with the axis of the frame, a lever secured to and extending radially from the shaft, spring means engaging the lever and a portion of the frame to urge the element against the member, a second lever secured to and having a portion extending away from a plane containing the axis of the element and the frame axis, and spring means extending between said portion of the second lever and a stationary portion of the machine for urging the element against the member.

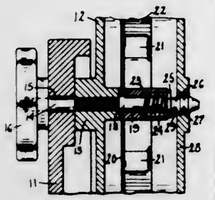
2,665,077
STOP MOTION FOR YARN WINDING MACHINES
Ferdinand F. Stange, Westfield, Mass., assignor to Foster Machine Company, Westfield, Mass., a corporation of Massachusetts
Application August 4, 1951, Serial No. 240,423
8 Claims. (Cl. 242—37)



1. In a yarn winding machine, having means for rotatably supporting a yarn package core, a driving roll into and out of engagement with which the rotatably supported core may be moved, a pawl and rack for lifting the package out of driving engagement with the driving roll, a starting lever for releasing the rack from the pawl to cause the core to move into driving engagement with the driving roll, a constantly reciprocated plunger, a pivoted drop-wire normally held by the running yarn, an interponent moved by the drop-wire into engagement with the

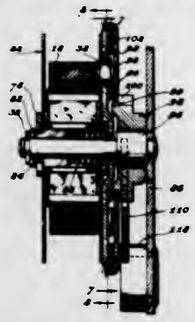
plunger on failure of the running yarn, said pawl being actuated by said interponent in engaging position in a package lifting direction to positively drive said rack, whereby the pawl and rack operate to lift the package from the driving roll.

2,665,078
TAPE-DISPENSING MECHANISM
Alfred P. Krueger, Stratford, Conn., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut
Original application December 27, 1948, Serial No. 67,358. Divided and this application July 24, 1950, Serial No. 175,505
4 Claims. (Cl. 242—55.5)



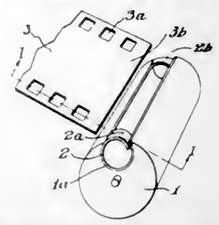
1. A mechanism for dispensing pressure-sensitive tape comprising a supporting frame, a spindle fixed to said frame, a roll holder rotatably mounted on said spindle, said holder having a hub rotatably mounted on said spindle, a shoulder on said spindle, a spring acting between said shoulder and said hub to place a frictional drag on the holder, said hub being recessed to receive a part of said spring, and means for securing the spindle to the frame for adjustment in an axial direction to adjust the tension of the spring.

2,665,079
RIBBON FEEDING MECHANISM
Erhard M. Lippert, Chicago, Ill., assignor to Victor Adding Machine Co., Chicago, Ill., a corporation of Illinois
Application January 10, 1950, Serial No. 137,784
1 Claim. (Cl. 242—70)



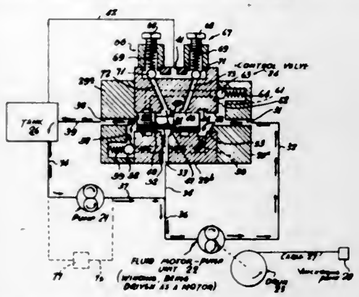
In a ribbon feeding mechanism, the combination of a stud, a driving wheel including a first friction plate mounted for rotation on the stud, a sleeve rotatable on the stud, said sleeve having an internal counterbore, a second friction plate mounted for rotation on the stud between the sleeve and the first friction plate, a friction disc between the plates, a coil spring located in the counterbore and compressed between the sleeve and the second friction plate to urge the plates into frictional driving relation, a ribbon spool detachably secured to the sleeve and having means forming a positive rotary driving connection with the second friction plate, and means forming shoulders on the opposite ends of the stud to retain the sleeve and the plates on the stud and to transmit the end thrust of the spring to the opposite ends of the stud.

2,665,080
DEVICE FOR ATTACHING PERFORATED FILM STRIPS TO SPOOL CORES
Michael Lesjak, deceased, late of Goggingen, Germany, by Babette Viktoria Lesjak, executrix, Goggingen, Germany
Application November 19, 1951, Serial No. 257,168
Claims priority, application Germany November 25, 1950
3 Claims. (Cl. 242—74)



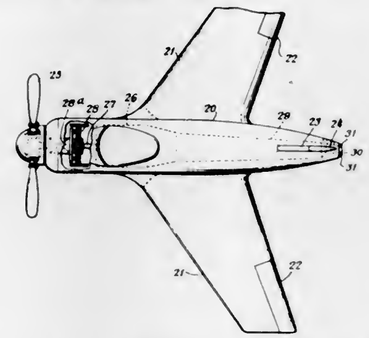
1. A photographic film supporting spool core for use with daylight developing tanks and provided with means for attaching perforated film strips, which means comprises, a tubular trough in said core adjacent its periphery, a longitudinally slit tubular insert positioned in said trough, said insert being cut away centrally of said slit so as to form a single pair of curved hooks for the film perforations, said hooks underlapping the insert circumference to provide a channel for introducing the end of the film radially of said insert and to permit winding of the film in either direction without substantial bending of the film end.

2,665,081
CABLE REEL
Joseph J. Slomer, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 18, 1950, Serial No. 150,381
5 Claims. (Cl. 242—90)



4. In apparatus of the class described, a hydraulic system including a reservoir and a pump for supplying pressure fluid, fluid operated mechanism drivable in one direction by said pressure fluid as a motor and drivable in another direction as a pump: the combination therewith of valve control means for limiting the back pressure on said fluid operated mechanism when acting as a pump, and for limiting the working pressure of said pressure fluid from said first named pump comprising a valve body having a shiftable valve member therein, said valve member having a first shifted position when said fluid operated mechanism acts as a motor, and a second shifted position when said fluid operated mechanism acts as a pump, and relief valve means including a first relief valve connected in series with said valve member in said first shifted position thereof to operate at a predetermined value, and a second relief valve connected in series with said valve member in said second shifted position thereof to operate at a different predetermined value.

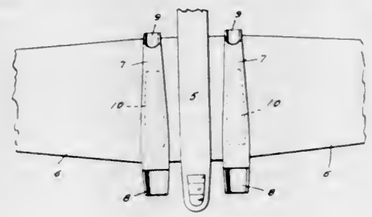
2,665,082
PROPELLER-JET PROPULSION SYSTEM FOR AIRCRAFT
James Robert Anderson, London, England
Application July 29, 1947, Serial No. 764,517
3 Claims. (Cl. 244—7)



1. In an aircraft having a fixed wing, a propulsion unit comprising a gas turbine having a rotor and providing an exhaust jet for propelling the aircraft by jet action, an airscrew unit, disconnectible clutch means having a first mating element rotating with the rotor of said gas turbine unit and a second mating element rotating with the blades of said airscrew unit, means to feather said blades and means to disconnect said mating elements, the improvement that comprises means to set said blades to a predetermined angle with relation to said fixed wing, said angle being defined between the horizontal plane of said wing and the longitudinal axis of said blades, said last-named means comprising an electric motor operatively connected to rotate said blades, a normally open switch in the electrical circuit of said electric motor, means adjustable to a position of engagement with said switch to close said circuit to cause said electric motor to rotate said blades, circuit opening means carried by said blades, said switch when closed by said adjustable means being disposed in the path of travel of said circuit opening means whereby said circuit opening means will again open said electrical switch when said blades have attained the predetermined angular relation with said wing.

2,665,083
JET-PROPELLED CHANNEL AIRCRAFT
Willard R. Custer, Hagerstown, Md.
Original application January 31, 1950, Serial No. 141,555, now Patent No. 2,611,555, dated September 23, 1952. Divided and this application April 8, 1952, Serial No. 281,200
8 Claims. (Cl. 244—12)

1. An aircraft comprising a wing, a tube mounted in the wing, the opposite ends of the tube being semicylindrical and opening upwardly to provide fore and aft channels, and a jet motor



mounted in the tube in communication with said channels.

2,665,084
FLAP ACTUATOR AND CONTROL SYSTEM
Thomas A. Feeney and John E. Glenn, Los Angeles, Walter B. Degenfelder, Wilmington, Ronald E. Crandall, Los Angeles, and Herbert S. Ripley, Inglewood, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application November 14, 1949, Serial No. 127,062
14 Claims. (Cl. 244—42)



1. In an airplane having a wing with a high-lift flap thereon, a reversible hydraulic motor connected to extend said flap when energized in one of two directions and to retract said flap when energized in the other of said directions, a four-way hydraulic control valve connected to energize said hydraulic motor in either of said directions and to deenergize said motor from a hydraulic power source, a valve stem for manually operating said control valve, an elastic element having its opposite ends adjacent and tending to move toward each other, a restraining element between said ends to hold said ends apart, a linkage connecting said valve stem to said restraining element, a hand-operated lever, and an extension on said lever also placed between said elastic element ends, both of said ends contacting said restraining element and said lever extension simultaneously to determine a neutral position where no forces are transmitted by said elastic element to said linkage or said lever, whereby a force in either direction can be applied by said lever to said valve stem through said elastic element, and flap follow-up means connected between said flap and said linkage to deenergize said hydraulic motor when said flap moves to a position corresponding to any particular setting of said lever.

4. In an airplane having a wing with a high-lift flap thereon, flap power means connected to extend said flap when energized in one of two

directions and to retract said flap when energized in the other of said directions, flap control means connected to energize said flap power means in either of said directions, flap follow-up means connected to said flap and to said flap control means to deenergize said flap power means when said flap moves to a position corresponding to any particular setting of said flap control means, said flap control means including a hand-operated lever and an elastic element connected between said lever and said flap power means, said elastic element having a neutral position where said flap power means is deenergized, and having deflected positions on each side of said neutral position to allow rapid prepositioning of said lever to any desired setting to move said flap to said corresponding position at its normal rate of travel, a pair of superposed dive brake surfaces on the trailing edge of each side of said wing, each surface being separately pivoted along its leading edge, separate dive brake power means for each of said pairs of surfaces, each of said dive brake power means being connected to rotate its respective pair of surfaces in opposite directions simultaneously for separation of said surfaces, dive brake control means connected to both of said dive brake power means to separate both of said pairs of surfaces simultaneously, and means connecting said flap follow-up means to said dive brake control means to regulate the relative positions of said dive brake surfaces in accordance with the position of said flap.

13. An aircraft control system comprising a control surface to be moved, power-operated means connected to move said surface in either of two directions when energized, control means connected to energize said power-operated means in either of said directions from a supply of power, a manual linkage connected to operate said control means, follow-up means connected to said surface and to said linkage to deenergize said power-operated means when said surface moves to a position corresponding to any particular manual setting of said linkage, a primary supply of power and an emergency supply of power, said emergency power supply being normally inactive, two primary power feed lines connected between said control means and said primary power supply, two emergency power feed lines connected to said emergency power supply, the first of said emergency feed lines connected to the first of said primary feed lines by selector means operable to connect either, but not both, of said first feed lines to said control means, the second of said emergency feed lines connected to the second of said primary feed lines at a junction, isolating means attached in each of said second feed lines on the opposite side of said junction from said control means to isolate operating power in each second feed line from power in the other, an emergency control circuit connected to said emergency power supply and to said selector means to simultaneously activate said emergency power supply and move said selector means to connect said first emergency feed line to said control means, when said circuit is completed, said circuit including manual closure means and automatic closure means in series so that both said closure means must be closed to complete said circuit, said automatic closure means having a driven connection with said linkage to be closed when said linkage is in a position requiring control surface movement, and open when said control surface is in the position called for by said linkage, whereby said emergency power supply can drive said control surface, in accordance with said control means, when said manual closure means is closed, to the exclusion of said primary power supply.

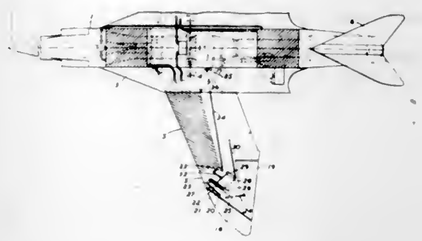
2,665,085

SELECTIVE DUAL AILERON CONTROL FOR AIRCRAFT

Frederick F. Crocombe, Gerrard's Cross, England, and Geoffrey T. Hill, Londonderry, Northern Ireland, assignors to Blackburn and General Aircraft Limited, Brough, England, a British company

Original application June 13, 1950, Serial No. 167,718. Divided and this application November 27, 1951, Serial No. 258,312

3 Claims. (Cl. 244—49)



1. An aircraft having an aileron control system, said aircraft having pivotally mounted wings displaceable between a slow speed position extending substantially normal to the center line of the aircraft and a high speed swept back position at an acute angle with respect to said center line, said aircraft having pivotally mounted wing tip ailerons for use with said wings in said high speed position and trailing edge ailerons in said wings for use with said wings in said low speed position, said control system comprising: aileron control means operable by a pilot of said aircraft; wing tip aileron control means connected to vary the position of said wing tip ailerons; trailing edge aileron control means connected to vary the position of said trailing edge ailerons; linkage means interconnecting said pilot operable aileron control means, said wing tip aileron control means and said trailing edge aileron control means and disposed selectively to connect either said wing tip aileron control means or said trailing edge aileron control means for control by said pilot operable aileron control means; and means responsive to the position of said wings and connected to said linkage means for rendering said selective connection effective with respect to said wing tip ailerons with said wings in said high speed position and effective with respect to said trailing edge ailerons with said wings in said low speed position.

2,665,086

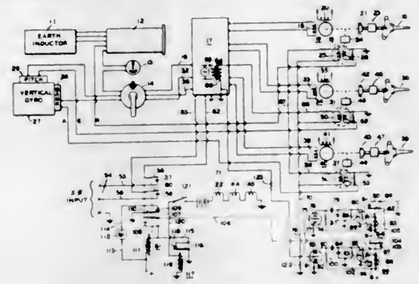
AIRCRAFT CONTROL SYSTEM MONITOR

Arthur E. Moog, Caldwell, and Corles M. Perkins, Rutherford, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application November 3, 1949, Serial No. 125,284

17 Claims. (Cl. 244—77)

11. An aircraft automatic pilot having servomotors for operating craft rudder, aileron and elevator surfaces, individual follow-up means operable by each of said motors for preventing oscillation of the aircraft, each follow-up means being subject to both normal and abnormal operation during normal operation of its related servomotor, and monitoring means connected with each of said follow-up means and operative in response to abnormal operation of at least



one of said follow-up means for making at least one of said motors ineffective.

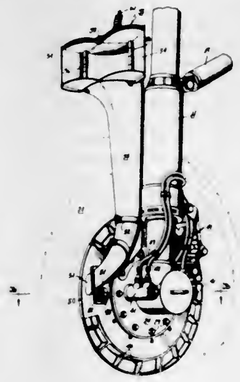
2,665,087

LANDING WHEEL STRUCTURE FOR AIRCRAFT

Leonard W. Clover, San Jose, Calif.

Application November 2, 1950, Serial No. 193,562

3 Claims. (Cl. 244—103)



1. In a landing wheel structure for aircraft, a wheel support, a landing wheel journalled thereon including a tire-supporting rim, a series of substantially radially extending vanes on said rim, air passage means on said structure having an outlet directed toward and disposed adjacent said vanes to effect impingement of air thereon and an inlet facing in the direction of travel of the aircraft, a gate mounted in said air passage means for opening and closing movement with respect thereto, governor means mounted on said structure and controlled by said wheel upon rotation thereof, and means operatively interconnecting the governor and said gate for controlling the rate of air flow through the passage inversely to the rate of wheel rotation.

2,665,088

SAFETY DEVICE FOR AIRCRAFT SEAT EJECTORS

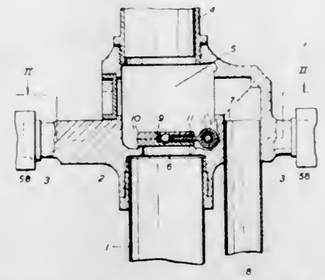
Marcel Jules Odilon Lobelle, Slough, England, assignor to M. L. Aviation Company, Limited, Buckinghamshire, England, a British company

Application February 14, 1952, Serial No. 271,516

Claims priority, application Great Britain February 19, 1951

5 Claims. (Cl. 244—122)

1. In an aircraft, in combination with a seat, a gun for seat ejection comprising in combination breech means and firing means for firing an explosive charge enclosed within said breech means, said breech means being connected to said seat, an ejection cylinder, an exhaust tube through which gases can be dissipated in case of inadvertent firing of said explosive charge, said breech means being rigidly connected to and in communication with said ejection cylinder and



said exhaust tube, valve means for sealing alternatively said ejection cylinder or said exhaust tube from said breech means, means for moving said valve means from sealing relationship with said ejection cylinder to sealing relationship with said exhaust tube, and means for operating said firing means in timed relation with said valve means.

2,665,089

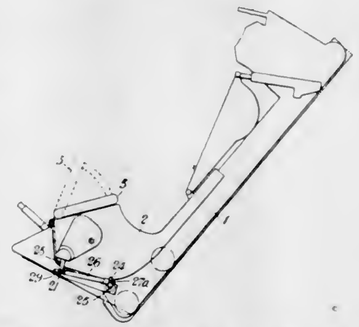
EJECTION SEAT FOR AIRCRAFT

James Martin, Higher Denham, near Uxbridge, England

Application May 22, 1951, Serial No. 227,562

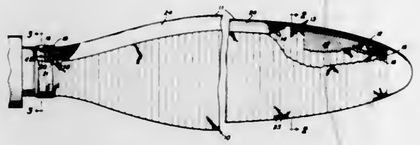
Claims priority, application Great Britain May 22, 1950

8 Claims. (Cl. 244—122)



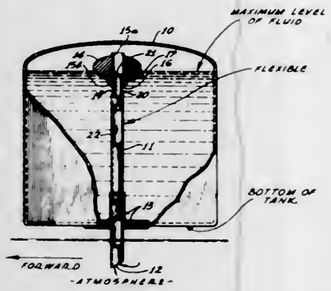
1. In an ejection seat for aircraft comprising in combination therewith thigh guards movably mounted on said seat between retracted and operative positions, spring means disposed between said seat and thigh guards operable to move said guards from the retracted position to said operative position, catch means interposed between said thigh guards and seat normally retaining the guards in said retracted position, lease mechanism operably associated with said catch means, and means interposed between said release mechanism and the catch means whereby on actuation of the release mechanism the catch means are disengaged to permit the spring means to become operative and move the guards from the retracted position to the operative position.

2,665,090
PROPELLER ICE-PREVENTION HEATING UNIT
George H. Holdaway and Elwyn C. Wallace, Mountain View, Calif.
Application August 3, 1950, Serial No. 177,546
2 Claims. (Cl. 244—134)
(Granted under Title 35, U. S. Code (1952), sec. 266)



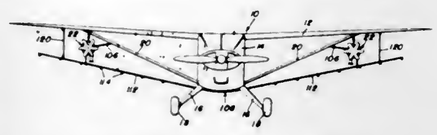
1. In an airplane propeller, a propeller body having a leading and a trailing edge, a de-icer connected to said body and comprising, a strip of thermally insulating material extending spanwise of the body and disposed on said leading edge, said strip extending chordwise of said body a distance to substantially cover said leading edge, a layer of insulating material disposed on and secured to said body, said layer consisting of a strip of insulating material wound chordwise of said body and extending completely around said leading and trailing edges, a heating element fastened to said layer at the leading edge of said body, said heating element being juxtaposed to said strip of insulating material, a tape of insulating material extending around said leading and trailing edges and arranged to form a cover layer over the first mentioned layer and said heating element, and a capstrip at the leading edge of said body disposed over the portions of said layers on said leading edge, said insulating strip and said heating element.

2,665,091
BREATHER TUBE
Halvar G. Starck, Redondo Beach, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application May 28, 1951, Serial No. 228,639
2 Claims. (Cl. 244—135)



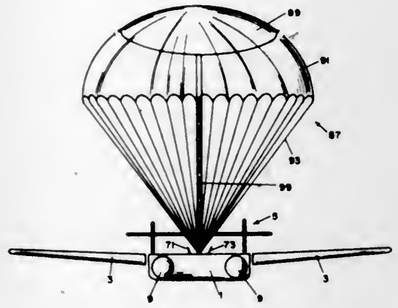
2. A breather tube for venting an aircraft fuel tank from full to empty, comprising a flexible tube, the opening at one end of said tube being positioned in atmosphere, said flexible tube passing through the bottom of said tank and normally extending straight upwardly therein, the opening at the other end of said tube being positioned in said tank above the level of fluid stored therein to provide a continuous unobstructed air passage between the interior of said tank and atmosphere, a floatable member having an air passage therethrough, a ball and socket assembly connecting said floatable member with said tube end in said tank, said ball member having an air passage therethrough axial of said tube air passage and said floatable member air passage and continuous therewith, said floatable member being movable on said ball member in accordance with movement of said fluid to retain said tube opening above the level of said fluid, irrespective of the position of said tank with respect to said fluid during flight of said aircraft.

2,665,092
SPRAYING ATTACHMENT FOR AIRPLANES
Gordon C. Sands, Havre, Mont.
Application June 13, 1952, Serial No. 293,313
5 Claims. (Cl. 244—136)



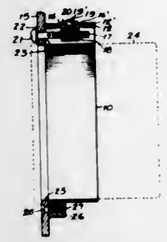
1. In combination with an aircraft having wing struts, an elongated housing forming a tank suspended from one of said wing struts, pump means at the forward end thereof, said pump means being enclosed in a nose portion of said housing, a spray boom associated with said housing for spraying fluids carried by said tank, said pump means being connected to said tank and said spray boom by piping, said piping including a by-pass valve, said by-pass valve being connected to said tank by a return line, said by-pass valve being positioned adjacent the outlet of said pump means whereby fluid is returned to said tank for agitating fluid stored therein.

2,665,093
PARACHUTE SAFETY RELEASE
Dario Manfredi and Angelo Raiti, New York, N. Y.
Application December 19, 1950, Serial No. 201,554
7 Claims. (Cl. 244—139)



1. In an airplane having a fuselage, a housing in said fuselage, a parachute normally maintained in inoperative position therein, closure members for said housing, means under the control of the pilot of the airplane for opening said closures, parachute ejecting means actuated by the opening of one of said closure members for ejecting the parachute from the housing into operative position, and motor mechanism operable when said other closure member is in open position to cause the release of structural elements of the airplane from the fuselage for the reduction of weight and the elimination of fire hazard.

2,665,094
AXIALLY TIGHTENING BAND CLAMP
Clarence E. Christophersen, Los Angeles, Calif., assignor to Marman Products Company, Inc., Los Angeles, Calif., a corporation of California
Application November 4, 1952, Serial No. 318,558
9 Claims. (Cl. 248—27)



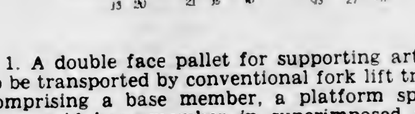
6. In a band clamp for securing an object to the rear side of a mounting panel, and operable from the front side of said panel: a band comprising a body portion for encircling the object, and a pair of end portions in circumferentially overlapping relation, said end portions having crossed diagonal slots; and actuator means comprising a pair of coacting elements one of which is a screw and the other of which is a nut threaded onto said screw, one of said actuator elements having a body portion for rotatable bearing engagement in an opening in said panel and a head for end bearing engagement with the front face of said panel, whereby said one actuator element is axially fixed when operative and the other of said actuator elements is axially movable, said other actuator element having a finger extending through said slots at the crossing thereof and engageable with the edges of said slots for camming action in response to axial movement of said axially movable element, whereby said band end portions are drawn circumferentially together to tighten said band; said band having an edge, constituting an axial extremity thereof, engageable with the inner face of said panel whereby said panel is clamped between said band edge and said actuator head as the band is tightened.

2,665,095
MUDGUARD INDICATOR FOR VEHICLES, PARTICULARLY AUTOMOBILES
Ernst Hostettler, Zurich, Switzerland
Application February 26, 1952, Serial No. 273,466
2 Claims. (Cl. 248—43)

1. A fender guide comprising a vertical rod, a vibration absorbing rubber body adapted for attachment to a fender with the lower end of the rod anchored in the upper end of the rubber body and terminating at its lower end above the transverse median line of said rubber body, the upper end of said rubber body being tapered with respect to its greatest diameter whereby the upper end of the rubber body and rod may vibrate in lateral directions without injury to said rod, a face of the rubber body below its upper end being curved incident to the curvature of the fender for intimate contact therewith and means embedded in the lower end of the rubber body below the lower end of the rod and extending outwardly of the rubber body for attaching the rubber body to the fender and presenting an intermediate freely flexible zone in the rubber body, the lower end of the rod and the fender-attaching means being on the vertical axis of said rubber body.

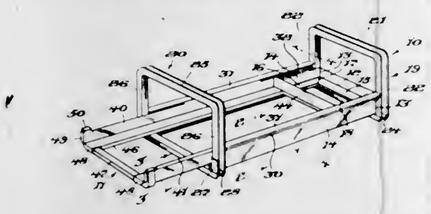


2,665,096
COLLAPSIBLE DOUBLE-FACED PALLET
Hilmond O. Vogel, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application November 21, 1951, Serial No. 257,476
4 Claims. (Cl. 248—120)



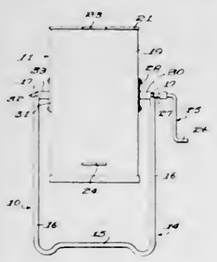
1. A double face pallet for supporting articles to be transported by conventional fork lift trucks comprising a base member, a platform spaced from said base member in superimposed relation, said supporting members having upper and lower oppositely disposed edge portions, the lower edge portions being adapted to seat upon the base members and the upper edge portion being adapted to engage the platform in supporting relation, the supporting members including first and second oppositely disposed sides, a plurality of supporting members positioned between the base member and said platform, said supporting members being laterally spaced with respect to each other to provide openings on the four sides of the pallet whereby the forks of a lift truck may be inserted between the platform and base on each of the four sides of said pallet for transporting the pallet, means for connecting said supporting members to said platform and to said base, said means including first hinge members connected to the first sides of said supporting members and to said base, and second hinge members connected to the second sides of said supporting members and to said platform, said platform and base being relatively movable longitudinally and laterally toward each other during hinging movement of said supporting members whereby said pallet is collapsed.

2,665,097
SLIDING STORAGE RACK
Thomas Shaw, Cranston, R. I., assignor to Stackbin Corporation, a corporation of Rhode Island
Application September 9, 1948, Serial No. 48,412
8 Claims. (Cl. 248—128)



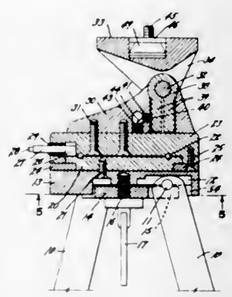
5. A unit rack for a container comprising a frame and a carriage slidably mounted therein, said frame comprising a base member having a rear rail and side rails, said side rails each having a horizontal flange extending inwardly in the same plane providing a slideway for said carriage, said side rails each having a vertical wall at the outer edge of the rail extending in parallel relation to each other and at right angles to said horizontal flange, each of said vertical walls being deflected outwardly at an obtuse angle to the vertical wall to provide an obtuse wall and then inwardly horizontally to provide a horizontal wall and from a longitudinally extending pocket extending a major portion of the length of the side rails, and said carriage having an inwardly horizontal flange overlying the slideway of the base for sliding co-operation therewith and side portions each with a vertical wall closely adjacent said vertical wall of said rail with an outwardly extending flange extending in said pocket and underlying said horizontal wall and slidably related thereto and adapted to engage said horizontal wall to limit the upward movement of the carriage.

2,665,098
SANIPLUS GARBAGE BARREL SUPPORT
William E. Oden, Bogalusa, La.
Application May 2, 1950, Serial No. 159,487
1 Claim. (Cl. 248—137)



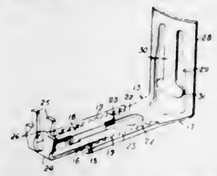
In a stand for a container, a pair of converging legs, said legs each being hollow and being fabricated of tubular material, each of said legs having a U-shape and including a lower horizontally disposed web shaped to provide bearing ends for the stand, and spaced parallel vertically disposed tubular standards, the distance between the tops of the standards on the legs being less than the distance between the webs of the legs, a pair of spaced parallel substantially U-shaped bearing brackets having an inverted arcuate shaped bight portion, said brackets extending between said legs and having their ends detachably positioned in said tubular standards, the diameter of said brackets being of a dimension to provide a telescoping snug fit between the brackets and standards, each of said brackets including a pair of downwardly diverging end portions, a crank having a horizontally disposed straight portion supported on the inverted bight portion of one of said bearing brackets, a horizontally disposed stub shaft rotatably engaging the other inverted bight portion of said bearing bracket, the straight portion of said crank being arranged in alignment with said stub shaft, a first plate secured to the inner end of the crank, a second plate secured to the inner end of the shaft in opposed aligned relation to said first plate, said plates adapted to be secured to the container, said plates having an arcuate shape to conform to the shape of the container to which they are attached, a first collar circumposed on said stub shaft and interposed between a plate and bight portion of one of the brackets, a second collar circumposed on the straight portion of said crank and interposed between the other bight portion and its adjacent bracket, the center of gravity of said container being arranged below an axis extending through the straight portion of said crank and said stub shaft when the container is in upright position, said crank having a hand gripping portion arranged exteriorly of said legs.

2,665,099
CAMERA TRIPOD
Francis David Graetz, Denver, Colo.
Application August 13, 1951, Serial No. 241,543
4 Claims. (Cl. 248—183)



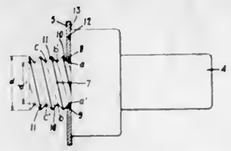
1. In a camera tripod of the type having a rotatable turret plate, means for supporting a camera on said turret plate comprising: a bracket member extending medially upward from said turret plate; a camera platform; two downwardly-extending, spaced-apart legs on said platform positioned on opposite sides of said bracket member; a tilt shaft mounted in said bracket member and extending oppositely outward into said legs to form a pivot therefor; means locking said shaft in said legs to prevent relative rotation therebetween; a split clevis surrounding said shaft within said bracket member; parallel extremities formed on said clevis member at opposite sides of the split therein, said extremities extending downwardly into a receiving socket in said bracket member; an eccentric cam rotatably mounted in said bracket member in contact with one of said extremities; and means for rotating said cam to cause the latter to urge the latter extremity toward the other extremity to contract said clevis about said shaft.

2,665,100
ADJUSTABLE ARTICLE SUPPORTING BRACKET
Jacob R. Jason, Brooklyn, N. Y.
Application November 28, 1950, Serial No. 197,953
3 Claims. (Cl. 248—229)



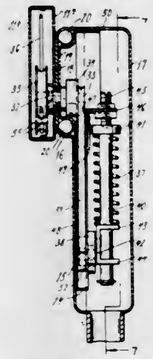
1. An article supporting bracket comprising two substantially L-shaped parts defined by angularly disposed portions, one angularly disposed portion of each part being substantially U-shaped in form and fitting one within and slidably engaging the other, interengaging teeth spaced longitudinally of both of said U-shaped portions for adjustably coupling the same in different positions of adjustment in controlling spacing of the other angularly disposed portions, said other angularly disposed portions of one part having means for engaging a support, the corresponding other portion of the other part having means for coupling an article therewith, said last named portion comprising an open-work frame and a yieldable tongue within said frame, a bracket for supporting hats in spaced relationship to each other within a hat box and in spaced relationship to the walls of the box, said bracket comprising a pair of L-shaped members, part of one member having opposed racks the teeth of which extend longitudinally of said member, the corresponding part of the other member comprising a pair of spring arms, each arm having longitudinally arranged teeth for adjustably engaging the teeth of said racks in adjusting the position of said members one with respect to the other, and angularly disposed portions of each member being provided one with means for engaging a support on a hat box and the other with yieldable means for engaging a hat.

2,665,101
SHELF SUPPORT MOUNTING ARRANGEMENT
Alfred G. Janos, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application February 23, 1950, Serial No. 145,793
2 Claims. (Cl. 248—239)



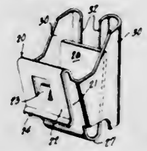
1. A shelf support assembly comprising a panel having a generally circular opening therein, and a shelf support stud received within said opening, said stud having a plurality of parallel threads thereon, said panel being shaped to provide at least two arch-like projections extending in the plane of said panel into said opening, the central portions of said projections being spaced about the perimeter of said opening by an angular distance equal to 360° divided by the number of parallel threads on said stud, the tip of each of said projections engaging a corresponding one of said threads.

2,665,102
ADJUSTABLE BRACKET STRUCTURE
Albert C. Perbal, Lake Arrowhead, Calif.
Application June 26, 1950, Serial No. 170,389
7 Claims. (Cl. 248—280)



1. In an adjustable bracket of the character described, a support, a hollow inner bracket arm pivoted at its inner end to the support, an outer bracket arm pivoted to said inner bracket arm, a shaft journalled in the inner bracket arm for rotation about an axis parallel to and spaced from the pivotal axis of said arm, said shaft extending into the inner bracket arm, and means extending longitudinally through said inner arm operatively interconnecting said outer arm and one end of said shaft whereby turning movement of one thereof is imparted to the other, an eccentric bearing member on the opposite end of said shaft and spring counterbalancing means connected to said bearing member.

2,665,103
SUPPORT
Laurence H. Flora and John Balint, Cleveland, Ohio, assignors to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 9, 1951, Serial No. 210,110
3 Claims. (Cl. 248—314)

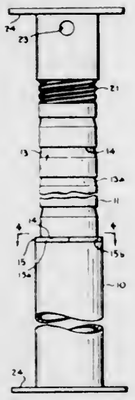


1. A fastener comprising a piece of sheet metal providing a base having means for attaching the fastener to a support, and a spring arm extending from said base in spaced opposing relation thereto, side arms extending from the sides of said base on opposite sides of said spring arm, said side arms having free end portions extending toward and beyond said spring arm and said free end portions being bent inwardly toward each other to provide shoulders cooperating with said spring arm in providing a socket for receiving an object to be mounted on said support.

2,665,104
ADJUSTABLE POST
Clarence E. Myers, Cuyahoga Falls, Ohio, assignor to Summit Steel Products, Inc., Akron, Ohio, a corporation of Ohio
Application April 3, 1950, Serial No. 153,510
3 Claims. (Cl. 248—354)

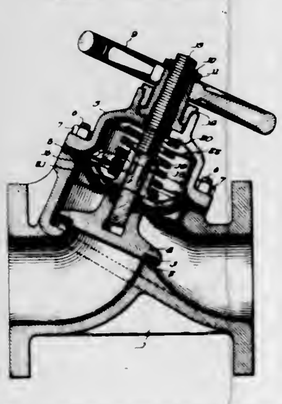
1. An adjustable post of the character described, comprising a longitudinally extensible

unit including a tubular member and a cylindrical element telescopically arranged within the same to have a portion of the length of the element extending longitudinally outwardly of an inner end of the member, said element having on the outer periphery thereof at least one outwardly presented annular groove defining a longitudinally inwardly presented annular shoulder, and a circumferentially segmented ring of at least two parts engageable piece-by-piece within said annular groove and having annular edge portions complementally engageable with said



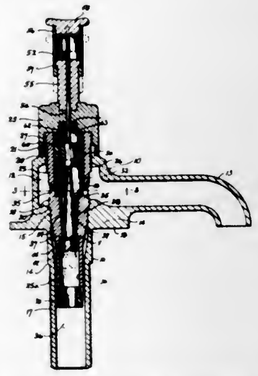
annular shoulder of said groove, said ring having an annular groove defining radially inwardly opposed walls for retaining reception of the tubular inner end of said member therebetween when longitudinal load stress is applied to said unit in assembled condition with the ring in position in said groove of said element, the mean diameter of said annular ring groove being greater than the mean diameter of said inner end portion of said member, whereby a load applied to said unit tends to contract said ring into tight frictional engagement with said element.

2,665,105
DIAPHRAGM SEALED VALVE
John E. Svabek, Jr., Cicero, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application September 7, 1946, Serial No. 695,384
1 Claim. (Cl. 251—31)



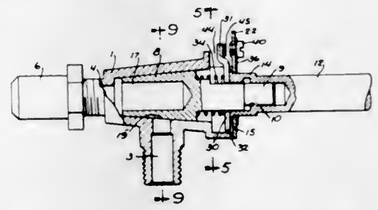
A diaphragm valve comprising a casing having a valve chamber of substantially cylindrical form except for that lower portion thereof forming a transverse passage interrupting the side wall of the chamber, a flexible diaphragm normally dished and with the outer periphery thereof defining the upper limits of the said valve chamber, a valve stem threaded for substantially its full length and being threadedly secured on both sides of the said diaphragm, a dished plunger threadedly attached to the said stem, a closure member secured to the said stem and bearing in fluid sealing relation against an annular surface portion of the said diaphragm, the said closure member having a flat seat contact defining its lowermost limits, a bonnet closing the upper portion of the said casing, a coiled resilient member supported between said plunger and an interior end wall portion of the said bonnet, a valve seat within the said valve chamber defining the lower limits of the valve chamber, the said bonnet having a chamber portion above and forming a continuation of the said valve chamber, the said closure member having a central threaded portion for receiving an end threaded portion of the said stem, the said plunger also having a central hub portion threaded for substantially its full length for receiving a threaded portion of said stem and retaining said coiled resilient member around said hub portion against transverse displacement in actuating the said valve, an upper surface of the said hub portion when abutting the interior end wall portion of the bonnet defining a stop for inhibiting excessive upward flexing of the said diaphragm and also providing a limit of maximum compression for the said resilient member in the full open position of the valve.

2,665,106
ALL-METAL VALVE FAUCET
James C. Ross, Seattle, Wash.
Application February 2, 1948, Serial No. 5,759
4 Claims. (Cl. 251—131)



1. In a faucet, or the like, a valve housing having a passage for flow of the controlled medium, said passage having a dash pot chamber at one end with outlets opening therefrom, and being formed in its other end portion with a valve seat, and having an elongated conically tapered portion leading from said seat into the dash pot chamber, a valve member applied to said passage having a valve head adapted to be closed against the valve seat by pressure of the controlled medium thereagainst, and having a conically tapered stem contained in the tapered portion of the passage and adapted to fit thereto when the valve is closed and to extend into the dash pot chamber, a retarding piston movable in the chamber, and manual means for actuating the piston against said stem for opening the valve; said conically tapered portion of the valve passage having auxiliary channels leading from near its larger end into the dash pot chamber.

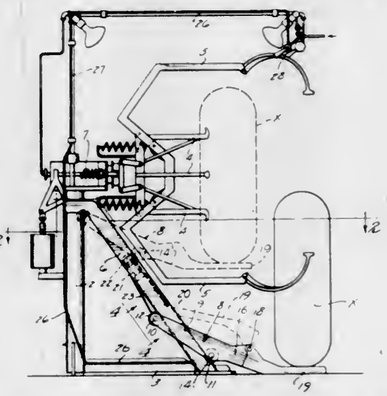
2,665,107
VALVE FOR CONTROLLING FLOW OF GAS TO BURNERS
Donald E. Blackford, Plymouth, Mich., assignor to Lincoln Brass Works, Inc., Detroit, Mich., a corporation of Michigan
Application April 18, 1951, Serial No. 221,656
4 Claims. (Cl. 251—164)



1. In a valve for controlling the flow of fuel gas to a burner, said valve having a body, a valve member rotatably seated in the body, the body and valve member having passages arranged to be brought into and out of registry by rotary movement of the valve member; a projection movable with the valve member, limit stops fixed relative to the body and engageable by the projection, a cap for the body, the valve member having an operating stem portion projecting through the cap, a member having a body portion disposed against the outside of the cap and having an aperture through which the stem portion extends so that the member is journaled on the stem portion, the body portion having an elongated slot therein, a screw extending through the slot and threaded into the cap, whereby said member is adjustable within the limits of the elongated slot, said member having a bight portion extending over the edge of the cap, an arm extending inwardly on the inside of the cap, and a yieldable portion carried by said arm and having a surface positioned between the valve body and the cap to be engaged by said projection to indicate a relative position of the passages in the body and valve member, said portion yielding for movement of the projection past said surface upon turning of the valve member.

2,665,108
COMBINATION TIRE SPREADER AND TIRE-LIFTING HOIST THEREFOR
Charles E. Branick, Fargo, N. Dak.
Application May 2, 1951, Serial No. 224,171
3 Claims. (Cl. 254—50.3)

1. In a device of the class described, a base, a vertically-disposed support on said base, a plurality of spreader arms carried by said support in spaced relation to the ground, said base underlying said spreader arms, an inclined rail below said spreader arms extending between said base and the intermediate portion of said support, a carriage, means mounting said carriage for movements longitudinally of said rail, a tire-lifting arm extending outwardly of said carriage for common movements therewith, and means for imparting movements to said carriage and tire-lifting arm, the free end of said lifting arm



projecting forwardly of said spreader arms when said lifting arm is in its lowermost position.

2,665,109
SPRING TOOL
Michael S. Romby, Roanoke, Va.
Application September 9, 1949, Serial No. 114,832
1 Claim. (Cl. 254—114)

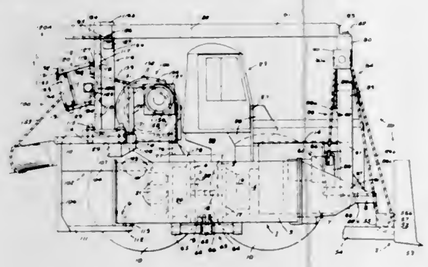


A spring tool of the character described comprising relatively slidable, telescopically connected male and female members, spring engaging means on the outer ends of said members, a flange on the inner end of the female member, a pin mounted diametrically in the male member at an intermediate point and including headed projecting end portions, a pair of elongated cams pivotally mounted on the end portions of said pin and operable on the flange for extending the members, a substantially U-shaped operating lever including main portions and angularly extending end portions fixed to one end portion of the cams, and said main portions substantially paralleling the female member in close proximity thereto when the members are extended and flats on said one end portion of the cams engageable with the flange for releasably securing the members in extended position.

2,665,110
LOGGING TRACTOR
Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Peoria, Ill., a corporation of California
Application June 1, 1950, Serial No. 165,491
5 Claims. (Cl. 254—150)

1. A logging tractor comprising a main frame, drive means for supporting said frame, an engine on the tractor for supplying power to said drive means, a mount removably fastened to said frame at the rear of said tractor and carried by said frame, a roller support structure attached to and carried by said mount, a roller support carried by said structure, said roller support including a horizontal roller and fairleads positioned one at each end of the roller, a winch

supported from the tractor and located forward of the roller support structure, and a cable from said winch passing over said roller and between said fairleads for attachment to a load beyond

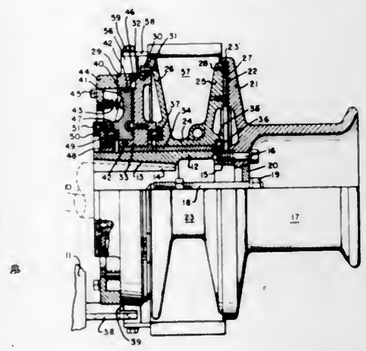


the rear end of the tractor, said roller support structure being adjustable longitudinally of said tractor on said mount, and said roller support being adjustable vertically on said support structure.

2,665,111
BODY LOWERING APPARATUS
Edward Sokolik, New Brighton, Minn.
Continuation of abandoned application Serial No. 73,300, January 29, 1949. This application August 21, 1952, Serial No. 305,527
9 Claims. (Cl. 254—157)

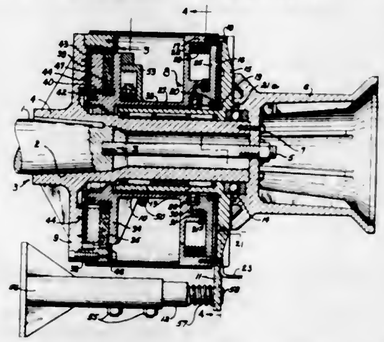
1. In a device of the character described, a bracket frame including a vertical wall base-plate, which has a radial brake-face, and a stub-shaft support perpendicularly connected to the radial brake-face of said wall base-plate, said stub-shaft support including a journal-portion and a free end-portion extended from said journal-portion, said free end-portion being of a shape adapted to cooperate slidably, but not rotatably, with the hub of an element and having an end-portion thereof also screw-threaded and provided with a nut, which is adjustable on said screw-threaded end-portion; a relatively narrow radially coextensive duplex-reel rotatably mounted upon the journal-portion of the stub-shaft support, said duplex-reel including a duplex drum-hub having an inner end-flange, which has a radial brake-face, cooperating with the radial brake-face of the wall base-plate; an outer end-flange, which has a radial brake-face and is provided with a pair of diametrically opposite pivots secured to the outer end-flange externally of the radius of the brake-face of said outer end-flange; and means affording a radial partition between the end-flanges; a pair of strand elements, each connected to each drum-hub and wound in opposite direction principally upon itself to cumulate radially, thereby effecting an inherent deceleration of the acceleration of bodies being alternately descended by the respective strand elements which have the free ends thereof provided with anchor means; a radial brake means and brake-drum means slidably, but not rotatably, mounted upon the free end-portion of the stub-shaft support, said radial brake means having a radial brake-face cooperating with the radial brake-face of the outer end-flange; a compression means crowdingly communicating with the radial brake means and the adjustable nut; an opposed pair of operatively alternating governor-brake lever assemblies mounted upon the pivots and adapted to cooperate with the respective brake-drum means; and tensionally adjustable separate spring means for retracting the governor-end-portions of the lever assemblies toward the brake-drum means.

2,665,112
DIRECT AIR FRICTION CATHEAD
Albert A. Ashton, Houston, Tex., assignor to Emsco Manufacturing Company, Los Angeles, Calif., a corporation of California
Application October 29, 1949, Serial No. 124,451
6 Claims. (Cl. 254—185)



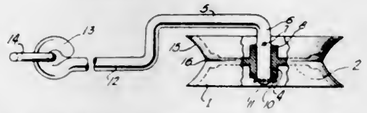
1. A friction cathead, comprising: a rotatable sleeve shaft extension; a cathead spool connected to the outer end of said sleeve, said spool having an inner end flange; a breakout spool surrounding said sleeve axially aligned with the cathead spool and having an outer end flange confronting said inner end flange of the cathead spool, said flanges carrying frictionally engageable surfaces; a stationary cooperatively associated annular piston and cylinder assembly surrounding the inner end portion of said sleeve; a tubular bushing surrounding said sleeve and slidably supporting said cylinder for movement longitudinally of the sleeve, said bushing having a projecting portion extending between said sleeve and breakout spool to form a bearing upon which the breakout spool is rotatable; means interlocking said cylinder and said breakout spool for relative rotational movement and unitary axial movement; means resiliently urging the piston and cylinder together to separate said frictionally engageable surfaces; and means for supplying a pressure fluid between the cylinder and piston for urging them apart to engage said frictionally engageable surfaces.

2,665,113
WINDING DEVICE
James Lewis Foster, Wichita Falls, Tex., assignor to Foster Cathead Company, Wichita Falls, Tex., a firm
Application November 19, 1948, Serial No. 60,934
22 Claims. (Cl. 254—187)



1. In a cable drum device connected to and driven by a rotatable shaft, a sleeve fixed on said shaft for rotation therewith, a non-rotatable sleeve journaled on said first-mentioned sleeve, a drum mounted on said non-rotatable sleeve for rotation therearound and for a limited axial movement thereon, said drum being adapted to have a pull line connected thereto for winding thereon upon rotation of said drum, and fluid actuated means for connecting said drum with said rotatable shaft.

2,665,114
CLOTHESLINE PULLEY
Karol Michalski, Newark, N. J.
Application February 29, 1952, Serial No. 274,257
1 Claims. (Cl. 254—190)



In a clothesline pulley assembly which allows the revolving thereon of a line on which clothes are attached, and which includes a non-rotatable hanger, a shaft extension attached to said hanger in offset relation thereto, a short shaft projecting at right angles from said extension, and a pulley rotatable on said shaft and having a grooved rim the sides of which have the same diameter, the improvement comprising the pulley having a grooved rim in the shape of an outwardly rounded V with the bottom of the V in the form of an angular wedging groove serving to wedge in the line so as to prevent it from rotating around its own axis, and the pulley also having a diameter of about two and one-half to three times the width of the rim, said pulley being disposed on said shaft far enough away from said hanger to allow clothes on the line to pass therebetween.

2,665,115
PERCUSSION TOOL FOR WELLS
Ross Bassinger, New Braunfels, Tex.
Application February 13, 1950, Serial No. 143,898
4 Claims. (Cl. 255—4.4)

1. A well percussion tool that comprises a tubular housing including a high pressure chamber and a low pressure chamber, an opening into the high pressure chamber for the supply of high pressure fluid thereto, an opening from the low pressure chamber for the exhaust of fluid therefrom, and an axially directed opening between said chambers; two elements mounted for axial reciprocation within said housing, one of said elements having the form of a sleeve fitting slidably in the opening between the chambers, the other of said elements having the form of a piston fitting slidably in said sleeve, each of said elements having a working surface exposed to the high pressure chamber, separate elastic means for urging each of said elements toward the high pressure chamber, said elastic urging means causing said elements to engage to close the opening between the chambers so that a pressure differential may be established to force the elements in the other direction, a hammer attached to one of the

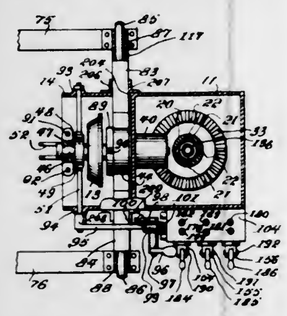


elements and an anvil limiting the movement of said hammer and the element attached to it in a direction away from said high pressure chamber after said element having the hammer attached thereto has passed out of engagement with the other element thus releasing the pressure differential between the chambers and allowing the other element to move back toward said high pressure chamber, the elastic urging means for the element having the hammer attached thereto having less thrust per unit area of working surface of that element than the elastic means for the other element and the total inertia of the element having the hammer attached thereto being greater than that of the other element whereby a gradual increase in pressure in said high pressure chamber will cause said elements to become disengaged without reciprocation of one of the elements and whereby a rapid increase in said pressure will cause both elements to reciprocate.

2,665,116
POSTHOLE BORING MACHINE
Frank Brink and John E. Star, Corsica, S. Dak.
Application February 27, 1951, Serial No. 212,976
2 Claims. (Cl. 255—19)

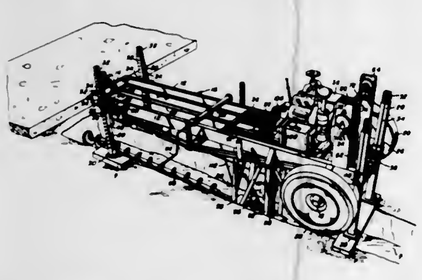
1. A post hole boring tool comprising a mounting frame, a drill rod housing, provided with front, rear and side walls and having vertically disposed slots in the side walls thereof, a support bearing mounted in the housing and having arms extending outwardly of the housing through the slots in the side walls of the housing, means journalling the outer ends of the arms on said

mounting frame, said arms pivotally supporting the drill rod housing on the frame to swivel in a transversely disposed plane in relation to the mounting frame by means of the support mounted within the housing, a clutch, mounted in said drill rod housing, an upwardly extended superstructure mounted on the upper side of said drill rod housing, a drill rod having a longitudinally disposed cylinder therein extended through the said drill rod housing and superstructure and having a drill bit on the lower end, power driving means mounted on the said mounting frame and connected through universal joints to the said drill rod housing, means in the said drill rod housing for rotating the drill rod, a piston



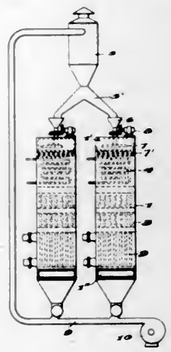
positioned in the cylinder of the drill rod and having a piston rod the outer end of which is anchored in the upper end of the superstructure, a hydraulic cylinder mounted through universal joints on the mounting frame and superstructure, respectively, and positioned to rotate the said drill rod and superstructure in a plane extended longitudinally through the said mounting frame, a hydraulic cylinder also mounted through universal joints on the superstructure, and positioned to rotate the said superstructure and drill rod in a plane transversely positioned in relation to the said mounting frame, and means applying fluid under pressure to the said hydraulic cylinders and also to the cylinder of the drill rod.

2,665,117
BORING MACHINE
Cleo R. Ivey, Jasper, Ala.
Application January 10, 1951, Serial No. 205,329
10 Claims. (Cl. 255—20)



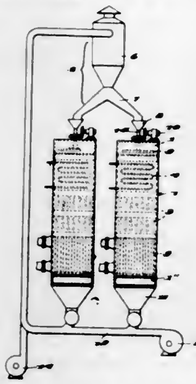
1. A drilling machine comprising an elongated horizontal frame, vertically adjustable uprights at the ends of the frame for supporting the frame at a predetermined height over a ditch, means mounted on the frame and operatively connected to the uprights for selectively raising and lowering the uprights, a carriage slidably carried by the frame, a vertically swingable support structure pivotally mounted on the carriage and depending from the carriage, an auger rotatably carried by the support structure and underlying and substantially parallel to the frame, means mounted on the frame and connected to the support structure for selectively raising and lowering the support structure relative to the frame, power means on the carriage operatively connected to the auger for rotating the auger, means connected to the support structure holding the latter against swinging movement, said carriage being movable horizontally on said frame, and means on the frame connected to the carriage for moving the latter horizontally back and forth on the frame.

2,665,118
APPARATUS FOR CLEANING GAS SWEPT HEATING SURFACES
Bror Olof Broman, Stora Essingen, Sweden, assignor to Aktiebolaget A. Ekstroms Maskinaffar, Stockholm, Sweden
Application June 22, 1949, Serial No. 100,645
Claims priority, application Sweden January 19, 1949
11 Claims. (Cl. 257—1)



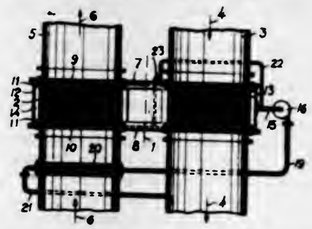
1. In heat interchanging apparatus, a casing including side walls and a top wall, an upper gas inlet communicating with the casing through a side wall thereof adjacent the top wall and a lower gas outlet communicating with a side wall of the casing, tube means within said casing and through which fluid passes for heat exchanging relationship with gas flowing through the casing, a rotatable hollow shaft projecting through the top of the casing and terminating above the tube means therewithin, a rotary distributing member secured to said hollow shaft and said member having an outer contour of spiral form extending from the vicinity of the center of rotation thereof outward toward and terminating at its greatest radius, means for feeding solid cleaning particles into the hollow shaft so that said particles are distributed within the casing above the tubes and spread throughout substantially the cross-sectional area of the casing to fall by gravity and cascade through the casing and impact and ricochet against the surfaces of the tubes to pick up material accumulated thereon and to dislodge material therefrom to clean the tubes, and means beneath the casing and beneath the gas outlet to collect said cleaning particles after they have passed through the casing.

2,665,119
METHOD AND APPARATUS FOR CLEANING GAS-SWEPT HEATING SURFACES
Bror O. Broman, Stora Essingen, Stockholm, Sweden
Application March 3, 1950, Serial No. 147,516
Claims priority, application Sweden March 8, 1949
21 Claims. (Cl. 257—1)



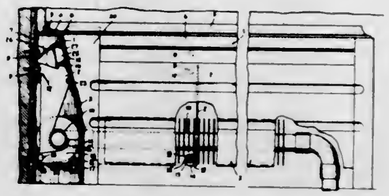
1. A method of cleaning gas swept heating surfaces of heat interchanging apparatus during operation thereof and which apparatus are of the type embodying walls and inlet and outlet means for the gas and means providing heat exchange surfaces within the walls including introducing shot pellets within the walls directly above the surfaces to be cleaned throughout substantially the cross-sectional area comprised between the walls so that the pellets fall by gravity and cascade through the apparatus and impact and ricochet against the surfaces to be cleaned to pick up material accumulated thereon and to dislodge particles of material therefrom, collecting the pellets with the deposits adhering thereto after they have passed the heating surfaces, cooling the pellets to burst off deposits of material adhering thereto, conveying the pellets and burst off deposits to a separating zone, separating the burst off deposits from the pellets in said zone and reintroducing the cleaned pellets into the apparatus.

2,665,120
REGENERATIVE HEAT EXCHANGER
Uno Olof Blomquist, Vasteras, Sweden
Application August 9, 1950, Serial No. 178,411
7 Claims. (Cl. 257—6)



1. An air preheater of the regenerative type comprising a rotor with a number of axial passages therethrough provided with heat accumulating elements and rotatable in a housing the interior of which has an air side and a hot gas side, said housing having axially aligned air inlet and outlet ports at its air side and axially aligned hot gas inlet and outlet ports at its hot gas side, and said rotor being rotatable about an axis intermediate and parallel to those of the air and hot gas ports of the housing to carry said elements successively through the hot gas and the air sides of the housing, said rotor having a side wall cooperating with the adjacent wall of the housing to define a circumferential space around the rotor, said rotor at the ends of its passages, being imperfectly sealed from said space so that air and hot gas from the rotor passages may enter said circumferential space at the air side and the hot gas side of the housing, respectively, at a pressure differential which promotes their intermingling, said preheater being characterized by: a suction fan communicated with said space at the air side of the housing for withdrawing air from the space at the air side of the housing at a rate such as to maintain the pressure of the air therein substantially equal to the pressure of the hot gases in the space at the hot gas side of the housing, irrespective of the hot gas and air pressures which obtain in the rotor passages.

2,665,121
BASEBOARD RADIATOR ENCLOSURE
Henry S. Woodruff, Newark, N. J., assignor to The Variflame Corporation, White Plains, N. Y., a corporation of New York
Application August 29, 1951, Serial No. 244,215
5 Claims. (Cl. 257—133)

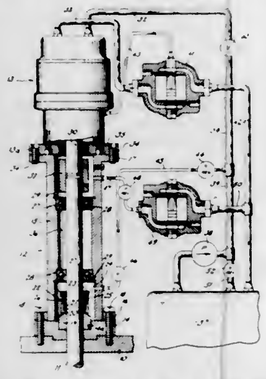


1. A baseboard radiator enclosure comprising a cap piece having a depending front panel, a top panel and a depending rear panel extending below the front panel; a forwardly projecting hanger bracket having a depending, hook-shaped, radiator-supporting portion and, at its upper end, a mounting tab adapted to overlie the rear panel of the cap piece; a forwardly projecting latch pivotally mounted on the hanger bracket adjacent the lower end thereof; said hanger bracket having an upwardly projecting hook adjacent its upper end; and a resilient front cover panel having a top flange adapted to overlie and suspend the panel from said hook and a bottom flange adapted to engage said latch; said hanger bracket having a shoulder portion below its said hook adapted to abut and flex the cover panel intermediate the said cover panel flanges.

2,665,122
HYDRAULIC POWER MEANS AND SEAL FOR PRESSURE VESSEL AGITATORS
Ernest E. Rowland, Akron, Ohio
Application June 11, 1952, Serial No. 293,019
2 Claims. (Cl. 259—108)

1. In combination, a pressure reaction vessel containing liquid and subject to a predetermined pressure, a rotatable shaft in said vessel and projecting through the wall thereof, a self-contained motor for rotating said shaft and connected to said shaft spaced from said wall, said motor being a hydraulic motor having a shaft aligned with said first-named shaft, sealing means embracing

said shaft where it passes through said wall, and an enclosed chamber surrounding said shaft and sealing means, a seal between said chamber and said motor and providing the only dividing means between them, an hydraulic system including a source of hydraulic pressure fluid connected with



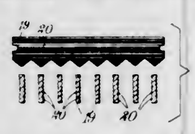
said motor for operating it, and means connecting said hydraulic pressure fluid in said chamber, said last named means providing means maintaining pressure in said chamber above said predetermined pressure, whereby said shaft terminates at one end inside of said vessel and at the other end inside of said hydraulic system.

2,665,123

APPARATUS FOR TREATING GASES WITH LIQUIDS

David Blythe Foster, London, and William Stephens Norman, Hoole, Chester, England, assignors to C. D. Patents Limited, London, England, a British company

Application May 22, 1950, Serial No. 163,432
Claims priority, application Great Britain May 26, 1949
4 Claims. (Cl. 261—108)



1. Apparatus for treating gases or vapours with liquid films flowing over solid surfaces, which apparatus comprises a vertical container and a plurality of horizontal grids spaced above one another in said container, each grid comprising a plurality of spaced, parallel strips of hard, wettable carbon, each of which strips has wide upright sides and has its lower edge serrated to provide downwardly projecting points, the strips of adjacent grids being disposed at right angles to one another and each downwardly projecting point being arranged a short distance directly above a strip in the grid next below.

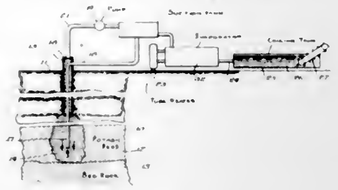
2,665,124

METHOD OF WINNING POTASSIUM CHLORIDE FROM UNDERGROUND DEPOSITS

Walter M. Cross, Jr., Kansas City, Mo., assignor to Kansas City Testing Laboratory, Kansas City, Mo., a corporation of Missouri

Application July 10, 1948, Serial No. 37,980
3 Claims. (Cl. 262—2)

1. The method of winning potassium chloride from underground deposits sparse in potash content which comprises establishing and maintaining a body of cyclically circulating cold liquid capable of dissolving both sodium chloride and potassium chloride and unsaturated with respect to potassium chloride in contact with said deposits, withdrawing a portion of said liquid containing both sodium chloride and potassium



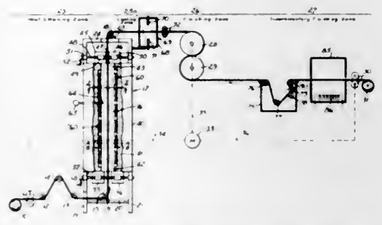
chloride dissolved therein, heating said portion, evaporating an amount of said heated solution sufficient to raise the weight ratio of potassium chloride to sodium chloride in said solution to between 0.2 and 0.6, cooling said solution thereby to precipitate potassium chloride, and returning the supernatant liquid to said body of circulating liquid.

2,665,125

APPARATUS FOR THE HEAT TREATMENT OF FABRICS

Clarence Klug, Los Angeles, Calif., assignor, by mesne assignments, to Alexander H. Kerr and Company, Incorporated, Los Angeles, Calif., a corporation of Nevada

Original application January 22, 1949, Serial No. 72,124. Divided and this application December 23, 1949, Serial No. 134,717
2 Claims. (Cl. 263—3)



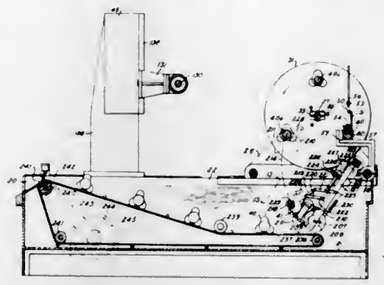
2. An apparatus for de-sizing and heat treating a glass fabric web which comprises a hollow vertical housing, means for pulling a glass fabric web upwardly through said housing, spaced guide means arranged to position said fabric web in said housing during its passage therethrough, an air inlet at the base of said housing, a flue gas outlet at the top of said housing, damper means including two spaced members each extending from one of the vertical sides of said housing and being positioned along said air inlet, one on each side of the plane of said fabric web, damper means in said flue gas outlet including two spaced members each extending from one of the vertical sides of said housing and being positioned one on each side of the plane of the fabric web, both of said damper means being positioned to define a pair of restricted orifices for directing streams of air lengthwise and on both sides of said fabric web during passage of said web through said housing, and means on each of said damper means for adjustably positioning its associated spaced members and thereby vary the dimensions of said orifices.

2,665,126

CRANKSHAFT PIN HARDENING MACHINE

Erwin G. Roehm, Norwood, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio

Application May 22, 1953, Serial No. 356,687
16 Claims. (Cl. 266—4)



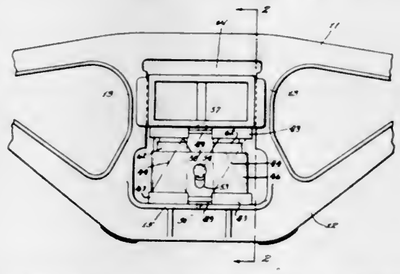
1. In a machine for flame hardening the pins of a crankshaft, said pins having an equal throw and arranged in predetermined angular phase relation, the combination of a bed having a slide, means to rotatably support a crankshaft on said slide, a plurality of bifurcated burners arranged on the bed parallel to said pins and providing elongated end slots for receiving the respective pins upon movement of the slide toward said burners, said burners being arranged in the same angular phase relation as said pins, means on the bed supporting said burners for movement in a circle having a radius equal to the throw of said pins, and power operable means for effecting joint rotation of said crankshaft and burners.

2,665,127

TRUCK STABILIZER PACKAGE UNIT

Charles P. Leese, Chicago, Ill., assignor to Standard Car Truck Company, Chicago, Ill., a corporation of New Jersey

Application July 30, 1949, Serial No. 107,812
1 Claim. (Cl. 267—9)



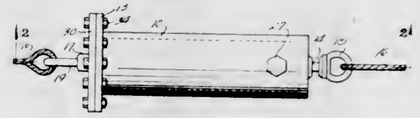
A package stabilizer unit adapted to be interposed between a truck bolster and a side frame of the truck comprising, in combination, upper and lower spring plates, a plurality of load supporting springs arranged between said plates, a casing open at the top and supported on said lower spring plates, said casing having opposed vertical friction surfaces and having vertical slots in opposed walls thereof, a friction wedge engageable with each of said friction surfaces, a central wedge depending from said upper spring plate and adapted to cooperate with said friction wedges to effect lateral movement thereof against said friction surfaces, a stabilizer spring associated with each of said friction wedges and adapted to urge said friction wedges upwardly against said central wedge and into frictional engagement with said friction surfaces, a loop depending from said central wedge and arranged substantially in alignment with said slots and a pin extending through said loop and said slot and adapted to maintain said stabilizing spring in partially compressed condition and to limit the movement of said plates in a direction away from each other.

2,665,128

TENSION RELIEF DEVICE FOR CABLES

Ralph A. Guffey, Louisville, Ky.

Application December 21, 1951, Serial No. 262,693
3 Claims. (Cl. 267—71)



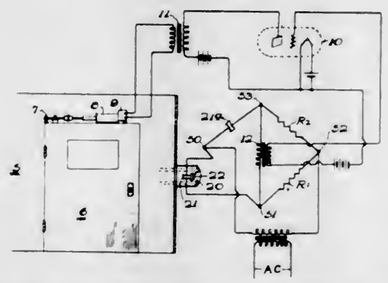
1. A cable tension relief device comprising an elongated tubular body, a cable-attaching eye rotatably connected to one end of said body, a stem extending from the interior of said tubular body out of the other end of the latter, a head on the end of said stem within said tubular body, a cable-attaching eye on the other end of said stem, said head slidably fitting said tubular body and having a bore extending transversely therethrough and said tubular body having angularly spaced apart apertures therein adjacent said one end thereof and registrable with the ends of the bore in said head, a frangible pin extending through the apertures in said tubular body and the bore in said head and effective to maintain said head adjacent said one end of said tubular body until said pin is subjected to a predetermined shearing force, means providing a spring abutment interiorly of said tubular body at said other end of the latter, and a coil compression spring surrounding said stem between said head and said spring abutment.

2,665,129

THERMOELECTRIC DOOR OPERATING MECHANISM

Vernon Durbin, Waban, and Charles T. Button, Needham, Mass., assignors to National Pneumatic Co., Inc., Boston, Mass., a corporation of Delaware

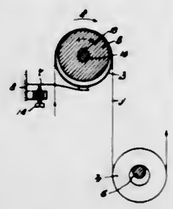
Application November 13, 1950, Serial No. 195,332
1 Claim. (Cl. 268—66)



In the combination of a door movably mounted in a wall, a power device operatively connected to said door for opening it, a control for said

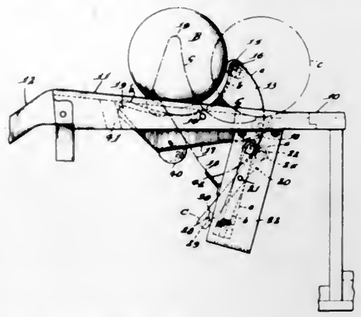
power device, and an electric circuit connected to said control for actuating the latter; the improvement which consists of a device located in one of said door or said wall adjacent said door and exposed to the space in the vicinity of said door through which a person or object must pass to reach said door, said device detecting and being sensitive to radiations in the infra-red range, said device including a temperature-sensitive resistor the resistance of which is sensibly altered by the detection by said device of infra-red radiations emanating from a person or object entering said space in the vicinity of said door, a second similar temperature-sensitive resistor shielded from the effects of infra-red radiation in said space in the vicinity of said door and in circuit with said first resistor so as to balance out ambient effects, a source of electric energy in circuit with said resistors, and an operative connection between said resistor circuit and said control-actuating circuit, the former controlling the latter, and hence said power device, in accordance with the detection or non-detection by said device of radiations in the infra-red range emanating from a person or object entering said space in the vicinity of said door, whereby the approach of said person or said object to said door will cause said door to open.

2,665,130
DEVICE FOR DRIVING TAPES
Roelof Vermeulen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 12, 1949, Serial No. 76,163
Claims priority, application Netherlands April 20, 1948
3 Claims. (Cl. 271—2.3)



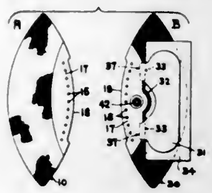
1. Apparatus for moving a band-like member between a first given point and a second given point spaced from said first point and at which the said member is driven with a given tensile stress, comprising two shaft members spaced apart one above the other, a roller member loosely mounted on the upper of said shaft members and a roller member loosely mounted on the lower of said shaft members, said band-like member being positioned over the top surface of said upper roller member and over the bottom surface of said lower roller member between said first given point and said second driving point, motor shaft means for driving said upper shaft member, said upper shaft member engaging the surrounding roller member with a given friction force at stresses of said band equal to said given stress and rotating in the direction of movement of the said surrounding roller member and at a higher speed than the speed of said roller member, and a control member engaging the bottom surface of the said upper roller member and exerting thereon an upper force to simultaneously reduce said friction force and brake said roller upon diminution of said given stress in said band like member.

2,665,131
BOWLING BALL RETARDER
Otto Schlafender, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company
Application September 1, 1950, Serial No. 182,822
11 Claims. (Cl. 273—47)



9. A bowling ball retarder comprising, in combination with downwardly sloping ball return tracks, a cradle pivotally supported on said tracks, a lever operable normally to hold the cradle in its ball retarding position, a positive stop device permitting the lever to swing slightly when a ball is retarded by the cradle, means operable by the lever when said lever is swung slightly to render the stop device ineffective and permit the ball to roll down over the cradle and means for restoring the lever to its cradle supporting position and rendering the stop device effective as the cradle swings back to its normal ball retarding position.

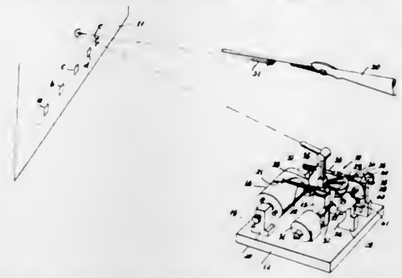
2,665,132
REINFORCED BALL CASING AND METHOD OF MANUFACTURE
Eli A. Robinson, Amsterdam, N. Y.
Application April 7, 1948, Serial No. 19,495
10 Claims. (Cl. 273—65)



1. A ball casing part and the like comprising a section having lace holes therethrough adjacent an edge thereof, and a reinforcing patch of vulcanizable material molded to the inner surface thereof at least between the lace holes and the adjacent edge of the section, and the molded reinforcing material projecting at least partially into the lace holes.

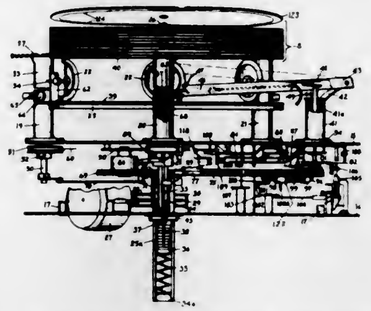
2,665,133
APPARATUS FOR PROJECTING LUMINOUS TARGETS
Virgilio Navarro Garrido, Madrid, Spain
Application March 20, 1952, Serial No. 277,640
Claims priority, application Spain May 6, 1947
14 Claims. (Cl. 273—105.1)

1. In combination with a target surface having a cage simulation thereon; apparatus for projecting a moving beam of light to form a moving luminous target on said surface simulating the flight of game released from said cage simulation and comprising a universally movable light beam projector, means operative to initially aim said projector at said cage simulation and then to swing said projector vertically and horizontally at varying angular speeds so



that the luminous target follows a predetermined irregular path on said surface, and means for controlling the illumination of said light beam projector synchronously with said projector swinging means and operative to extinguish said light beam projector a predetermined period after aiming of the latter at said cage simulation.

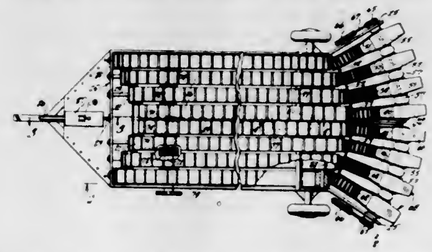
2,665,134
AUTOMATIC PHONOGRAPH
Joseph Giannelli, Astoria, N. Y.
Application April 22, 1947, Serial No. 743,004
7 Claims. (Cl. 274—10)



1. In an automatic phonograph mechanism of the type in which a stack of records is supported by drive wheels engaging a turntable, a turntable shaft, a driving gear carried by the turntable shaft, a plurality of mutilated gears mounted adjacent to said driving gear with their mutilated portions normally in registry with the driving gear so they remain stationary, a tone arm pivoted for movement between the record stack and the turntable, cam means driven by one of said mutilated gears for controlling said tone arm, cam means driven by the other mutilated gear for causing delivery of a record from said stack to said turntable in timed relation to the movement of said arm, and means actuated by the tone arm for at times bringing one or the other of said mutilated gears into mesh with said driving gear.

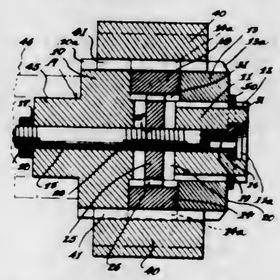
2,665,135
ALL-PURPOSE FARM SPREADER
Orion J. Harper, Bicknell, Ind.
Application December 18, 1951, Serial No. 262,270
6 Claims. (Cl. 275—6)

1. A spreader comprising a vehicle having a frame, a box-like body on the frame, a plurality of longitudinal conveyor belts lying in a common plane at the bottom of the body and providing a floor for the body, said body including side walls having wings extending rearwardly and downwardly, a second and like plurality of conveyor belts positioned below said first conveyor belts and extending rearwardly thereof between said wings to receive material from said first conveyor belts, a plurality of shafts joined end to end rotatably mounted between said wings below the level of said second conveyor belts and rearward thereof, said shafts having a like plurality of spreader paddles thereon positioned in the same vertical planes as said second conveyor belts to receive material from the latter, and means for moving all of said conveyor belts and rotating



said paddles in the same clockwise direction, said means comprising a drive shaft on the front of the vehicle adapted to be connected to a power shaft, a transmission housing at the front of the vehicle, said drive shaft extending into the housing through the front thereof, a second shaft having the front end thereof in said housing and extending through the rear of the housing and under said floor, means connecting said second shaft with said first conveyor belts for driving the latter upon rotation of said second shaft, means connecting said second shaft with one of said plurality of shafts for driving said plurality of shafts, and means connecting said plurality of shafts with said second conveyor belts for driving said second conveyor belts.

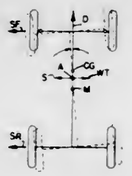
2,665,136
ADJUSTABLE SPLINED ARBOR
Albin F. Fallon, Grosse Pointe Park, Mich.
Application January 25, 1952, Serial No. 268,249
8 Claims. (Cl. 279—1)



1. A spline arbor comprising a support, a pair of axially spaced longitudinally splined annular portions carried by said support and having aligned substantially identical splines, an annular ring rotatably mounted on the support and located between said annular portions, said ring having splines substantially identical with the splines on said annular portions, a threaded shaft disposed axially of said support and ro-

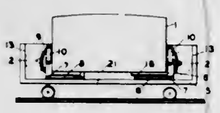
tatably supported thereby, a member longitudinally guided by said support and having an internally threaded axial bore engaging the threaded shaft whereby said member may be longitudinally moved in said support guide by rotation of said threaded shaft, said ring and member having a helical tongue and groove connection whereby longitudinal movement of said member causes annular adjustment of said ring relative to said support, said splines on said annular portions and said ring being adapted to engage internal splines on a workpiece to hold the workpiece centered on said support.

2,665,137
METHOD FOR STABILIZING VEHICLES
Wunibald I. E. Kamm, Dayton, Ohio, assignor to Automotive Design Company, Dayton, Ohio, a corporation of Ohio
Application May 13, 1949, Serial No. 93,157
2 Claims. (Cl. 280—1)



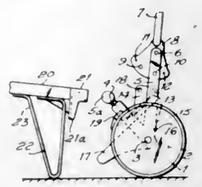
1. A method of stabilizing an automotive vehicle which has its center of gravity located between the midpoint of the vehicle and the front axle thereof and which is subjected to destabilizing air flow forces and to the influence of lateral tire guidance forces corresponding to the tire load of said vehicle, which includes the step of directing said destabilizing air flow forces to impinge upon surfaces at the rear of the vehicle, the step of locating the point of attack of the resultant of said air flow forces between said midpoint and said center of gravity to create a moment about said center of gravity, and the step of distributing the load on said tires so that the point of attack of the resultant of said lateral tire guidance forces is likewise located between said midpoint and said center of gravity to create a moment adapted to counteract said first mentioned moment.

2,665,138
RETRACTABLE ROAD WHEEL ASSEMBLY FOR VEHICLE TRAILERS
George Maxwell Tompkins, Parktown West, Johannesburg, Union of South Africa
Application June 12, 1952, Serial No. 293,106
5 Claims. (Cl. 280—41)



1. A road vehicle comprising a trailer, a floor and end walls for the trailer, wheels mounted on semi-elliptical springs, slides below the floor of the trailer, a slipper in each slide and attached to one end of the spring, a strap pivoted on the end wall of the trailer and attached to the other end of the spring, and means for swinging the strap through approximately 180°.

2,665,139
HAND TRUCK WITH BALL JOINT COUPLING
Paul Schroeder, Hamburg, Germany, assignor to Karl H. Bartels, Hamburg-Schenefeld, Germany, a firm
Application July 16, 1951, Serial No. 237,010
Claims priority, application Germany
August 1, 1950
14 Claims. (Cl. 280—46)



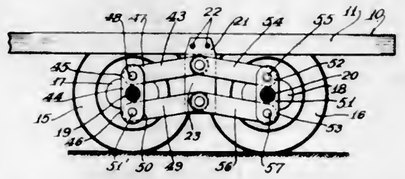
1. In a hand truck having a truck body and rear wheel means supporting said truck body at the rear end thereof, in combination, front wheel means; a shaft rotatably supporting said front wheel means; a combined supporting and pulling arrangement mounted on said shaft turnably relative to said front wheel means and including a supporting member and an elongated draft member serving as a lever arm for turning said supporting member about the axis of said shaft; and a ball joint composed of a socket member having a substantially spherical inner surface portion and a curved inner face being a portion of a cylindrical surface and merging into said spherical inner surface portion, and of a male member including a ball member detachably engaging said spherical inner surface portion of said socket member so as to be relatively turnable at least about a horizontal and a vertical axis and a cylindrical shaft portion turnably engaging said curved inner face, one of said two members forming said ball joint being fixedly secured to the front end of said truck body and the other being fixedly secured to said supporting member, said two members forming said ball joint being detachable from and connectable to each other by relative movement in a substantially vertical direction whereby said front wheel means may be detached from said truck body and connected again therefrom by turning said draft member about said shaft so as to cause turning of said supporting member resulting in a vertical downward and upward movement, respectively, of said other of said two members forming said ball joint, and whereby said hand truck may be steered by turning said draft member resulting in turning of said other of said two members forming said ball joint about said vertical axis.

2,665,140
VISOR ASSEMBLY FOR AUTOMOTIVE VEHICLES
Frederick A. Krusemark, Chicago, Ill.
Application June 9, 1950, Serial No. 167,182
4 Claims. (Cl. 280—95)



1. A visor assembly mounted for longitudinal adjustment over the windshield of an automotive vehicle comprising a stationary visor member extending substantially across the width of the windshield and fixed in vertically spaced apart relation to the vehicle body above the upper edge portion of the windshield and the top of the vehicle and inclined downwardly in the direction of said windshield, elongate guide members fixed to a surface of said stationary visor member in laterally spaced apart parallel relation and having downward inclination therewith, a movable visor member having substantially the same lateral dimension as the stationary visor member and conforming substantially therewith, guided elements fixed to said movable visor member in laterally spaced apart relation corresponding to the elongate guides for operative connection therewith to guide the movable visor member during longitudinal movement relative to the stationary visor, rack teeth in some of said guided elements, pinions rotatably mounted on said stationary visor member in meshing relation with the rack teeth of said guided elements, a laterally extending shaft interconnecting each of the pinions for conjoint movement, and means alongside the visor members for turning said shaft to actuate the movable visor member relative the stationary visor member in the longitudinal direction.

2,665,141
TANDEM AXLE SUSPENSION
Carl A. Lindblom, Auburn, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application September 29, 1950, Serial No. 187,507
9 Claims. (Cl. 280—104.5)



1. A tandem axle vehicle suspension between a vehicle frame having parallel, transversely spaced longitudinal sill members and a tandem axle unit including transversely disposed axle housings below said frame; a bracket secured to the outer ends of each axle housing one each of said brackets having an upwardly projecting ear and a downwardly projecting ear; a supporting bracket rigidly connected to each sill member having a portion depending downwardly below said frame between said axle housings, said depending portion being provided with an aperture; a pair of alined, transversely disposed torsion tubes, each tube extending through the aperture of one of said supporting brackets and having a relatively short portion projecting outwardly of the frame and a relatively long portion extending substantially to the longitudinal median line of the frame, the inwardly disposed ends of said long portions being provided with internal splines; resilient cushioning means interposed between each of said torsion tubes and its respective supporting bracket; a torsion rod enclosed within each torsion tube having its inner end provided with external splines adapted to engage the internal splines of the tube associated therewith, said rods having their outer ends projecting from said torsion tubes; resilient cushioning means interposed between said torsion tubes and said torsion rods; a pair of transversely spaced first upper arms, each of said arms having one end rigidly connected to the short portion of one of said torsion tubes, said arms extending in a longitudinal direction toward one of said axle housings; a pair of transversely spaced second upper arms, each of said arms having one end rigidly connected to the outer end of one of said torsion rods and extending in a longitudinal direction opposite to that of said first upper arms toward said other axle housing; and means pivotally connecting said first upper arms to the upwardly projecting ears of the brackets secured to one axle housing and said second upper arms to the upwardly projecting ears of the brackets secured to the other axle housing.

2,665,142
VEHICLE HAVING A REMOVABLE SECTION
Austin G. Talbert, Lyons, Ill., assignor to Talbert Construction Equipment Company, Lyons, Ill., a corporation of Illinois
Application November 22, 1950, Serial No. 197,017
9 Claims. (Cl. 280—104.5)

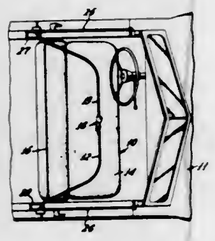


1. A multi-axle, wheel-supported unit of the class described having a permanent front section and a detachable rear section removably connected to said front section, comprising, a pair of longitudinal side frame members for said front section, at least one supporting axle for said front section, support wheels mounted on the opposite ends of said front section axle, spring means on each side of said front section and not extending beyond the rear ends of said front section side frame members for supporting said front section side frame members on said front section axle, a pair of longitudinal side frame members for said detachable rear section adapted to abut endwise and form rigid extensions of said front section side frame members, detachable connecting means on the abutting ends of said front and rear section side frame members for rigidly connecting the abutting side frame members together, at least one supporting axle for said detachable rear section, support wheels mounted on the opposite ends of said rear section axle, spring means for supporting said rear section side frame members on said rear section supporting axle and not extending beyond the front ends of said rear section side frame members, a load-distributing bar on each side of said wheel-supported unit having the front end of each bar supported by the adjacent front section support wheel or wheels and having the rear end of each bar supported by the adjacent rear section support wheel or wheels, bracket means on each side of said wheel-supported unit carried by one of said side frame members, and means for pivotally connecting each of said load-distributing bars on the adjacent bracket means.

2,665,143
PASSENGER SAFETY BELT DEVICE FOR AUTOMOBILES
Borge A. Rasmussen, Los Angeles, Calif.
Application November 23, 1949, Serial No. 128,969
3 Claims. (Cl. 280—150)

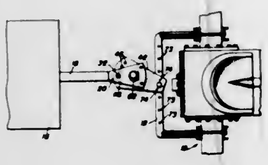
2. A safety device of the type described, for the seat of a vehicle having doors adapted to close

openings at opposite sides thereof, comprising: a pair of belt sections of pliant non-resilient material adapted to be longitudinally arranged across said seat; means carried by the adjacent ends of said belt sections for adjustably interconnecting said adjacent ends to form a belt of a length greater than the length of said seat whereby the outer ends of said belt sections may be extended outwardly through the door openings; the outer end of each section being folded



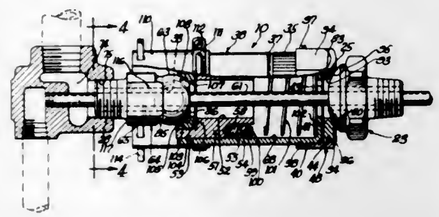
at least once upon itself; rigid means embracing said folded portion of each section; and means for securing said embracing means to said folded portion to form a protuberance on the outer end of each section of a size larger than the clearance between a door and the opening close thereby; and engageable with the exterior surface of said vehicle body for holding the outer end of each belt section against inward movement after each door is moved to its closed position.

2,665,144
VEHICLE HITCH
Gus O. Birdwell, Perryton, Tex.
Application August 30, 1951, Serial No. 244,321
1 Claim. (Cl. 280—462)



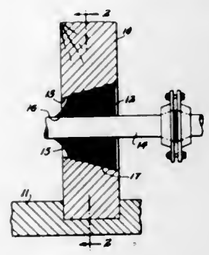
A hitch for coupling a trailer to a tractor comprising a transverse drawbar on the tractor, a bifurcated member rigidly attached horizontally to said trailer and having a vertical opening therein, a tongue fitting in said member, means on one end of the tongue and on said drawbar for pivotally connecting said tongue to said drawbar at selected positions along the same for horizontal swinging into different angular positions relative to said member in offset relation to the longitudinal center of the tractor, said tongue having a series of vertical openings in the other end thereof registering respectively with the opening in said member in the different angular positions of the tongue, a pivot pin for insertion in the opening in said member and the opening in the tongue registering therewith in the different angular positions of the tongue and on which said tongue tends to swing out of said angular positions under pull of the tractor, and coacting snap action devices on said member and tongue for locking said tongue to said member against swinging out of said angular positions.

2,665,145
QUICKLY DETACHABLE SWIVEL JOINT
Ephraim H. Shumaker, Sterling, Ill., assignor to Rotherm Engineering Company, Inc., Chicago, Ill., a corporation of Illinois
Application June 15, 1950, Serial No. 168,186
8 Claims. (Cl. 285—11)



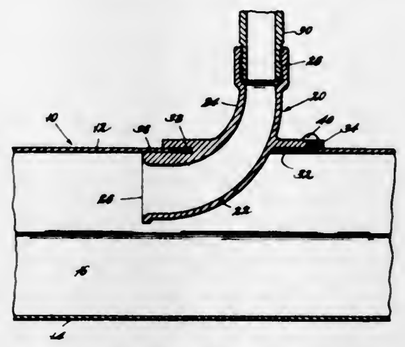
1. In a liquid and gas-tight rotating tubular joint unit, the combination of a tubular housing having an annular flange at one end projecting inwardly, an annular packing engaging the outer side of said flange, and having a partially spherical annular surface facing outwardly for engaging a complementary surface on a ball fixture, a threaded ferrule threaded on the end of said tubular housing, for securing said packing fixedly on the housing, a piston slidably mounted in said housing, and having an enlarged axial through bore, said piston having an outwardly facing annular shoulder and a counterbore, a packing in said counterbore engaging said annular shoulder, and having a partially spherical annular surface facing outwardly to engage a complementary surface on a ball fitting, a packing carried by said piston and engaging both the piston and the inner wall of said tubular housing to provide a fluid-tight sliding joint, and compression spring means in said housing acting on said latter packing and reacting against said annular flange.

2,665,146
PIPE FASTENING MEANS
Abram S. Berg and Arsenius N. Goregliad, Wyncote, Pa.
Application February 7, 1950, Serial No. 142,841
1 Claim. (Cl. 285—30)



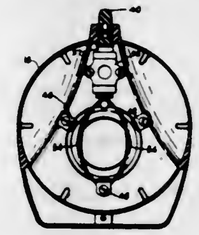
An arrangement for permanently fastening a pipe member in an aperture in a wall structure comprising in combination, a wall structure having a substantially unyieldable outwardly diverging internal wall surface defining an aperture, an elongated compressible elastic fastener extending coaxially in said aperture and engaging said outwardly diverging internal wall surface in fluid-tight relation, said fastener having opposed surfaces at its ends and a passageway extending therethrough in substantially concentric relation with said outwardly diverging internal wall surface, and a pipe extending through said passageway in fluid-tight contact with its surface throughout the length of said passageway, said fastener being distorted by compressive forces and said surfaces at the ends of said fastener having an outwardly divergent relation with respect to said pipe, both of said end surfaces being outwardly divergent to the same side of said wall structure as the outwardly diverging internal wall surface of said aperture, said end surfaces of said fastener having moved to the latter position during insertion of said fastener and said pipe into said aperture from a former position before said insertion where said surfaces at the ends of said fastener were substantially perpendicular to the axis of said pipe, and said fastener after said insertion being distorted inwardly with said end surfaces diverging outwardly to set up compressive forces acting between the periphery of said fastener and said internal wall surface and to set up compressive forces acting between the periphery of said pipe and said surface of said passageway, said compressive forces acting together to serve as the sole means of preventing withdrawal of said pipe and said fastener from said aperture.

2,665,147
WIRE DISTRIBUTING FLOOR STRUCTURE
Joseph William Wiesmann, Pittsburgh, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 23, 1948, Serial No. 34,807
1 Claim. (Cl. 285—102)



In a wire distributing floor, an elongated duct having a substantially flat wall and an opening through said wall, a hollow fitting mounted in said opening and having a leg extending longitudinally within said duct, said leg terminating in a flared mouth of substantially less sectional area than the interior of said duct and of less sectional area than said opening, said fitting having a curved hollow portion constituting an extension of said leg and extending outwardly through said opening and of less transverse dimension than said opening, a portion of the outer surface of said leg being substantially flat and bearing against the inner surface of said flat wall for a substantial distance radially outwardly from said opening, an integral flange around said curved hollow portion extending outwardly in all directions beyond the periphery of said opening and having a substantially flat surface bearing against the outside of said wall around said opening, that portion of said flange opposite the flat portion of said leg extending beyond the edge of said opening a distance no greater than the distance from the opposite side of said curved portion to the edge of said opening and defining a groove with said flat surface of said leg, said groove having an end wall on said curved portion engaging the peripheral edge of said opening at at least two spaced points, and a single threaded fastener holding said flange to said duct wall at a point substantially diametrically across said opening from said shoulder.

2,665,148
VACUUM CLEANER END CLOSURE AND DUSTING TOOL CONVERTER COUPLING THEREFOR
Warren A. Humphrey, Canton, and Dale C. Gerber, North Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application October 30, 1946, Serial No. 706,748
1 Claim. (Cl. 285—169)



In a suction cleaner having a casing and an end closure therefor, coupling means for detachably connecting a cleaning tool hose to said end closure comprising, a socket member carried by said end closure and having a conical sealing portion, said socket member having slits extending entirely through its side walls near one end of said conical portion, a spring wire surrounding said socket member at said slits and normally stressed to take an elongated shape with its side portions biased to lie in said slits interiorly of said socket member and its end portions extending above and below said socket member between said slits, a coupling member attached to one end of said hose, said coupling member having a conical sealing portion for cooperation with the conical sealing portion of said socket member and an annular shoulder positioned to lie behind and against the portions of said wire positioned interiorly of said socket member when said conical portions are in cooperative engagement, one of said end portions being anchored to said end cap and manually actuatable means extending beyond the periphery of and carried by said end closure and engaging the other end portion of said spring wire to move said other end portion toward said anchored end portion so as to move the side portions thereof which are normally positioned interiorly of said socket member outwardly of said slits to remove them from behind said shoulder.

2,665,149
HYDRAULIC DRILLING LIFT AND PACKER THEREFOR
Benjamin F. Schmidt, Los Angeles, Calif.
Application March 24, 1949, Serial No. 83,270
3 Claims. (Cl. 286—26)

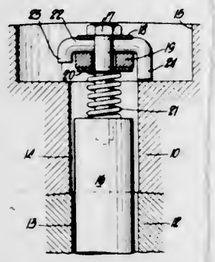
1. A packing including a unitary cylindrical sleeve of deformable material having an imbedded rigid core comprising longitudinally split sections

and means for securing the core to a pump element, said means including a rigid ring loosely



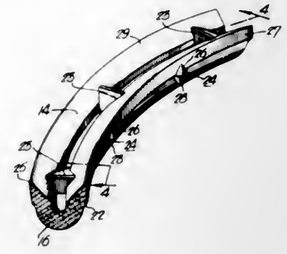
mounted within a groove of said core, and means securing said ring to said pump element.

2,665,150
FASTENING DEVICE
Wilbur J. Smart, Springville, Utah, assignor to United States Steel Corporation, a corporation of New Jersey
Application February 19, 1952, Serial No. 272,473
6 Claims. (Cl. 287—52)



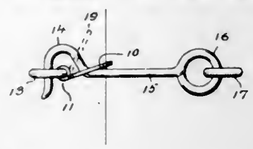
5. The combination in a coupling-half having a non-circular bore and a roll wobbler received in said bore and adapted to be driven by rotation of said coupling-half, said wobbler having a radial bore and said coupling-half having a mating radial bore and a counterbore, of a fastening device for preventing relative longitudinal movement between the coupling-half and the wobbler comprising a pair of lugs fixed to said coupling-half inside said counterbore diametrically opposite each other, each of said lugs being formed of a rod whose ends are bent downwardly to form a short length stop and a longer stop, a keeper pin received in said radial bores and having a smaller diameter extension on its outer end, a stop on the outer end of said extension, a key plate slidably and rotatably received on said extension between said last named stop and said keeper pin and underlying said lugs between the stops thereon, and a compression spring encircling said extension and bearing between said keeper pin and said key plate, said key plate being insertable and removable under said short length stops on compression of said spring.

2,665,151
V-TYPE PACKING FOR ELIMINATING LABYRINTH FLOW
William C. Fisler, Moorestown, N. J., and Otto Murray Summers, Philadelphia, Pa., assignors to Linear Incorporated, Philadelphia, Pa., a corporation of Pennsylvania
Application February 10, 1949, Serial No. 75,676
8 Claims. (Cl. 288—16)



1. A packing ring having relatively spaced axially directed lips forming the opposite walls of a circumferential channel of substantially V-shaped transverse configuration in one side of the ring, and having in said channel a plurality of relatively spaced resilient webs interrupting the circumferential continuity of the inner portion of the channel, the opposite side of the ring having a generally convex cross-sectional form of a radius such as to fit within the said substantially V-shaped channel so that when said opposite side is placed against the channeled side of another packing ring of substantially the same configuration with the rings in superimposed and axially compressed relation the said convex side of one ring will seat within the channel in the other ring with the said convex side contacting the walls defining said substantially V-shaped channel along lines remote from the bottom of the channel, the said resilient webs extending away from said channel bottom of one ring to an extent insuring sealing engagement between the outer edges of the webs of said one ring and the convex confronting surface of the other ring seated in said substantially V-shaped channel of said one ring when said rings are in said axially compressed relation to thereby effectively separate the portions of said channel at the opposite sides of the web.

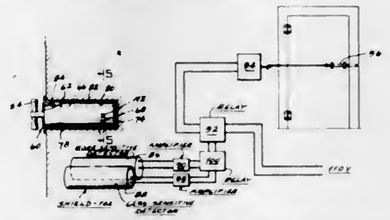
2,665,152
DOOR HOOK SAFETY LATCH
Edward Wilson Piercey, Bells, Tenn.
Application September 29, 1950, Serial No. 187,558
5 Claims. (Cl. 292—108)



1. A screen door hook comprising a shank having a hook on one end, means for pivotally mounting the end of the shank opposite to that on which the hook is positioned, a hook holding member, a plate having a longitudinally extending slot therein, and said plate is provided at one end with a circular hub for pivotally mounting the said plate on said hook holding member, whereby said plate

may be positioned to overlie the hook holding member with the elongated slot in the plate aligned with the hook holding member, so that the hook may be passed through the elongated slot in the plate and engages the hook holding member, and then pivoted to pass over the hook and engage the shank rearwardly of the hook.

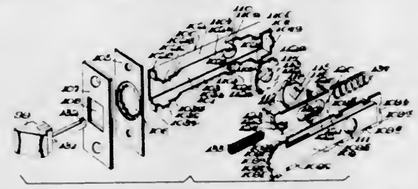
2,665,153
CONTROL SYSTEM FOR LOCKING MEANS
Charles F. Teichmann, Crestwood, N. Y., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware
Original application May 30, 1945, Serial No. 596,795. Divided and this application March 1, 1950, Serial No. 147,020
4 Claims. (Cl. 292—144)



1. A device for actuating locking mechanisms and the like which comprises a receptacle, a portable key-like member comprising a source of a definite predetermined quantity of penetrative radiation, contained in a housing shaped to conform to the shape of said receptacle, a detector concealed from view and adjacent to said receptacle for converting said penetrative radiation into electrical energy, the magnitude of which is proportional to the intensity of said penetrative radiation, a substance opaque to visible light disposed between said detector and said receptacle, control means responsive only to a predetermined quantity of electrical energy generated by said detector, and locking means actuated by said control means, the arrangement being such that when said container with said source of predetermined quantity of penetrative radiation is placed in said receptacle the electrical energy generated by said detector is of such magnitude as to operate said controlling means thereby actuating said locking means.

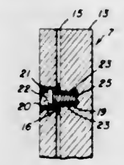
2,665,154
LATCH BOLT UNIT
Gotthard Hagstrom, Greenwich, Conn., assignor to The Safe Padlock and Hardware Company, Lancaster, Pa., a corporation of Pennsylvania
Original application August 11, 1950, Serial No. 178,897, now Patent No. 2,644,704, dated July 7, 1953. Divided and this application February 14, 1952, Serial No. 271,492
11 Claims. (Cl. 292—169)

6. In a latch bolt unit, in combination, a tubular case formed with one side wall, one end wall, and opposite edge walls to form a case open at one side and at one end thereof, and a plate-like closure cap fitted over said open side to close said case; said opposite edge walls being provided with cut-out portions therein opening through the side edges thereof to form transversely aligned edges disposed longitudinally of said case providing seats spaced inwardly thereof from and intermediate said side wall and said closure cap; the adjacent ends of said edges of said cut-out portions being extended inwardly by undercuts in said edge walls, respectively, to provide retaining slots therein; a substantially flat bearing plate member having planar opposite side surfaces, said bearing plate member being engaged at its opposite ends on said edge wall seats in position extending across said case between said opposite edge walls and intermediate and spaced from said side wall and said closure cap; said bearing plate member being



provided with portions thereof extending into said retaining slots to secure said bearing plate member in mounted position in said case; said bearing plate member having a bore transversely therethrough; and a rollback member mounted in position at one side of said bearing plate member in bearing engagement with the planar surface thereof for rotation about the axis of said bore in said bearing plate member.

2,665,155
PANEL FASTENER
James D. Figley, Defiance, Ohio
Application April 4, 1949, Serial No. 85,316
2 Claims. (Cl. 292—194)

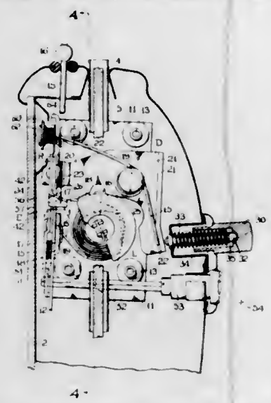


1. A panel turn-button fastener assembly for insertable and removable screens and glazed panels such as are used in connection with combination storm doors comprising a flat elongated plate constituting a turn-button adapted to releasably cooperate with keeper mortises provided therefor in a frame member, said turn-button being provided with a longitudinally disposed non-circular keying slot, a bushing adapted to be mounted in a bore provided therefor in said frame member, and an assembling and retaining screw-fastener for said bushing and turn-button embodying a shank having an enlarged head on one end, said head being mounted for rotation in the bushing, said shank being non-circular in cross-section and longitudinally tapered from the head toward its opposite end and being thus wedge-shaped in longitudinal section, said shank extending through and beyond said slot and being wedged in place in the slot and operatively joining said bushing, turn-button and screw-fastener in assembled relation.

2,665,156
DOOR CONTROL MECHANISM
Edwin L. Allen, Cleveland Heights, Ohio, assignor, by mesne assignments, to Rudolph I. Schonitzer, Cleveland, Ohio
Application February 12, 1949, Serial No. 76,023
10 Claims. (Cl. 292—216)

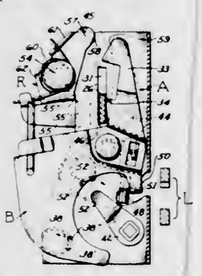
1. A latch mechanism including a frame structure having a base plate portion and a side flange

portion extending angularly from one side of said base plate portion, a shaft journaled in said base plate portion and having its axis of rotation extending substantially normally thereto, a latch member mounted on said shaft on the side of said base plate opposite from said side flange, a latch element mounted on said shaft on the opposite side of said base plate from said latch member for rotary movement with said latch member between a latched position and an unlatched position, a latching abutment member on said latch element and radially spaced from said axis of rotation of said shaft, a limiting abutment member on said latch element angularly spaced from said latching abutment member and extending radially outwardly farther than



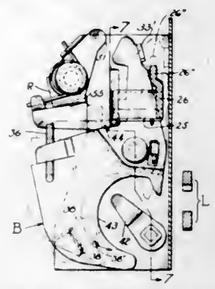
said latching abutment, a detent member pivotally mounted on said base plate for movement between latch holding and latch released positions, said detent member including an abutment face movable into and out of position to engage said latching abutment member, means for limiting the movement of said detent member in a direction to remove said detent abutment face from engagement with said latching abutment member at a point prior to removal of said detent abutment face from the path of movement of said limiting abutment member about said shaft axis, spring means for urging said latch member and latch element toward their unlatched positions, and spring means for urging said detent toward latch holding position.

2,665,157
DOOR CONTROL MECHANISM
Angelo R. de Vito, Cleveland Heights, Ohio, assignor, by mesne assignments, to Rudolph I. Schonitzer, Cleveland, Ohio
Application April 25, 1949, Serial No. 89,540
24 Claims. (Cl. 292—216)



21. Door control mechanism including latch means, an outside latch means operating member supported for movement between a normal non-operating position and a latch releasing position, lock means for preventing unlatching of said latch means, and means, operable by movement of said operating member in latch releasing direction beyond said latch releasing position, for moving said lock means in locking direction.

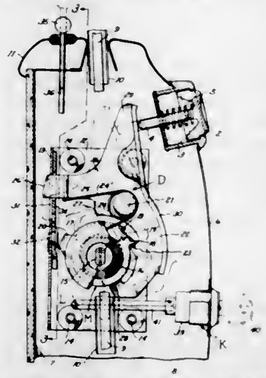
2,665,158
DOOR CONTROL MECHANISM
Leonard J. Wagner, North Olmsted, Ohio, assignor, by mesne assignments, to Rudolph I. Schonitzer, Cleveland, Ohio
Application June 9, 1949, Serial No. 98,001
13 Claims. (Cl. 292—216)



3. Door control mechanism including a movable latch member supported for movement between latched and unlatched position, a detent member supported for movement between latch holding, latch released, and locking positions, a lock member supported for movement between latch locked, latch unlocked, and lock preset positions and adapted when in locked position to prevent movement of said latch member from said latched to said unlatched position, said detent member having a lock member stop portion disposed in the path of said lock member and adapted to prevent movement of said lock member from unlocked position into preset position when said detent member is in said latch released position and disposed out of said path to permit movement of said lock member from unlocked position into preset position when said detent member is in said latch holding position or said locking position, manually operable means for moving said detent member between its said latch holding, latch released, and locking positions, and means for moving said lock member between its said unlocked, preset, and locked positions.

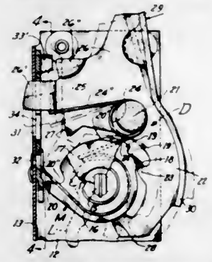
2,665,159
DOOR CONTROL MECHANISM
Edwin L. Allen, Cleveland Heights, Ohio, assignor, by mesne assignments, to Rudolph I. Schonitzer, Cleveland, Ohio
Application December 6, 1949, Serial No. 131,296
10 Claims. (Cl. 292—216)

6. Door control mechanism comprising a frame structure, a latch member supported on said frame structure for movement between latched and unlatched positions, a latch plate member supported for movement with said latch member and having a latching tooth formed thereon, a detent member supported on said frame spaced from said latch plate member, said detent member having a control arm portion extending toward said latch plate member, said control arm portion having a holding pawl disposed to be moved toward said latch plate member into holding relation with said tooth on said latch plate member, said detent member also having an operating arm portion extending away from said latch plate member in a direction generally opposite to that of said control arm portion, a locking arm portion extending transversely of said control arm portion and said operating arm portion, and a projection on said



control arm portion in spaced relation to said pawl, said latch plate member having a portion disposed to be engaged by said projection when said pawl and said tooth are in holding engagement whereby further movement of said detent member in latching direction is prevented.

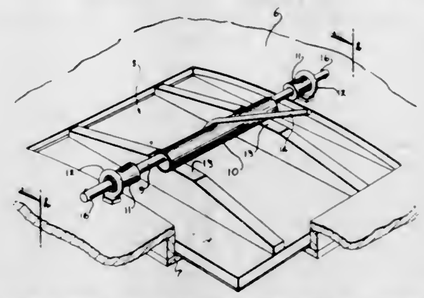
2,665,160
DOOR CONTROL MECHANISM
Otto V. Puzik, Willoughby, Ohio, assignor, by mesne assignments, to Rudolph I. Schonitzer, Cleveland, Ohio
Application December 7, 1949, Serial No. 131,627
10 Claims. (Cl. 292—216)



8. In a door control mechanism having a latch member movable between door latched and door unlatched positions, a lock member movable between unlocked and locked positions, and an outside operating member movable from a non-operating position to a latch releasing position to a locking position in that order, the combination with said outside operating member of a blocking element movable with said latch member and disposed to block movement of said outside operating member from said latch releasing position to said locking position when said latch member is out of said door unlatched position.

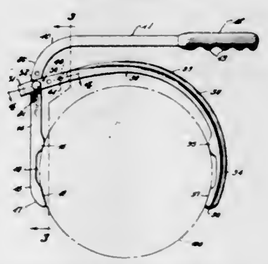
2,665,161
SECUREMENT FOR HATCH COVERS AND THE LIKE
Ralph J. Stehling, Milwaukee, Wis., assignor to Chas. H. Stehling Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 24, 1951, Serial No. 263,123
7 Claims. (Cl. 292—256.5)

6. In a container having a fixed wall with an aperture therein: a ledge on said wall extending around the aperture; a hatch cover for said aperture adapted to be seated on said ledge to close the aperture; a pair of ring bolts mounted on the fixed wall at opposite sides of the aperture with their rings coaxial; a rock shaft long enough to pass through both ring bolts; a pair of frusto-conical bushings slidably mounted on the ends of the rock shaft and receivable in the ring bolts, said bushings tapering axially outwardly and being substantially smaller in diameter at their outer ends than the inside diameter of the ring bolts so that axial adjustment of the bushings in the ring bolts effects displacement of the rock shaft toward and from said hatch cover; abutments at the ends of the rock shaft



against which the bushings engage to preclude displacement of the bushings off of the rock shaft; an eccentric secured to the medial portion of the rock shaft and having one of its ends spaced axially inwardly from the corresponding end of the rock shaft sufficiently far enough to enable withdrawal of the other end of the rock shaft laterally from its ring bolt when the bushing at said one end of the rock shaft is displaced axially inwardly on the rock shaft to abut the eccentric, and means for rotating the rock shaft when the bushings are received in the bearings to engage the eccentric with a part on the hatch cover and thus wedge the cover firmly onto the ledge.

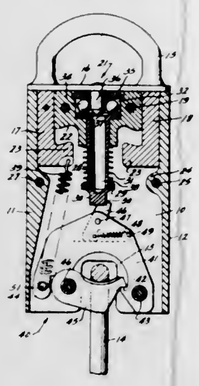
2,665,162
WATERMELON CARRIER
Scott Moore, Edward J. Meyers, and Patrick R. Nolan, Oklahoma City, Okla.
Application May 1, 1951, Serial No. 223,896
4 Claims. (Cl. 294—16)



1. An implement for harvesting and transporting watermelons that comprises a curved member, a plate having a curved irregular surface mounted on one end of said curved member, the other end of said curved member constituting a handle, a second member having on one end a head portion and on the other end curved bifurcated elements laterally offset from said curved member, a pivoted unit mounted on each of said

elements presenting an irregular surface facing the curved irregular surface of said curved member, said pivoted units being angularly offset from one another, and means for pivotally connecting said head portion to said curved member intermediate its ends so that a watermelon can be firmly retained between said curved surfaces when said handle is lifted.

2,665,163
GROUND RELEASE FOR CARGO PARACHUTES
Reinhold Gross, Dayton, Ohio
Application January 28, 1952, Serial No. 268,654
11 Claims. (Cl. 294—83)
(Granted under Title 35, U. S. Code (1952), sec. 266)



9. In a parachute load release device for automatically disconnecting a parachute from a suspended load upon a predetermined reduction of a portion of the downward pull of the suspended load, a body having connecting means at one end for connection to a parachute and connecting means at its opposite end for connection to a load to be suspended, lowered, and released from the parachute, one of said connecting means comprising a load supporting latch pivoted at one end to the body and having a latching abutment at its free end and arranged to support the suspended load intermediate its pivot and free end, a latch retaining release lever pivoted to the body adjacent the fulcrum of the load supporting latch and extending across the body above the latch to a point adjacent the load supporting latch pivot, said latch retaining release lever having a cooperating supporting abutment positioned for supporting engagement of the latching abutment at the free end of the load supporting latch and swingable within the body away from the load supporting latch to release the free end of the load supporting latch to free the suspended load supported by the latch, and movable in the opposite direction to engage and support the abutment of the load supporting latch to support the latch in load supporting condition, spring means connected between the body and the free end of the latch retaining release lever for swinging the latch retaining release lever within the body to disengage the latch abutment and release the suspended load, removable abutment means movable between the body and the latch retaining release lever for holding the latch retaining release lever in supporting engagement with the load supporting latch abutment to initially retain the said latch lever abutment means in holding relation to the latch release lever to prevent actuation thereof by the spring means to release the load supporting latch upon any reduction in pull of the suspended load, and time delay means carried by the body and arranged to be tripped by initial pull between the parachute and body for subsequently, after a predetermined time delay period, disengage the removable abutment means from the latch retaining lever and free the latch retaining release lever, whereby a subsequent predetermined reduction in downward pull of the suspended load relative to the opposing pull of the parachute permits the spring means to actuate the latch retaining release lever against the remainder of the pull of the suspended load and frees the load supporting latch to permit the load supporting latch to open and release the suspended load from the load supporting latch.

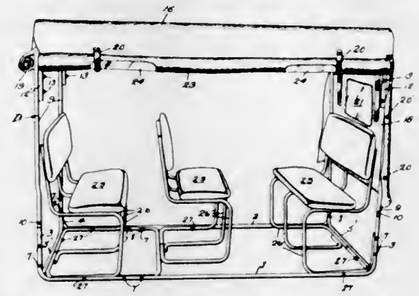
2,665,164
WELL FISHING SOCKET OR TOOL
Ferdinand J. Spang, Butler, Pa., assignor to Spang & Company, Butler, Pa., a corporation of Pennsylvania
Application January 27, 1949, Serial No. 73,137
16 Claims. (Cl. 294—102)



16. A method of making a fishing tool body construction which comprises, forming a pair of elongated and semi-circular body segments each with slipway portions therealong, machining out the inside of each of the body segments and forming a longitudinal slipway therealong, assembling the body segments into a circular body, welding the assembled segments together into a unitary body construction, heat treating the unitary body construction and developing an equalization of the weld metal and the metal of the body segments, and forming a connection on an end portion of the unitary body construction.

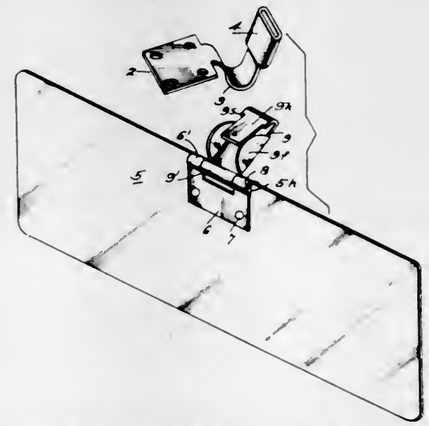
2,665,165
REMOVABLE COMBINATION CANOPY FRAME AND SEAT UNIT FOR MOTOR VEHICLES
Alfred T. Pitman, Atlanta, Ga., assignor to Dixie Tallyho, Inc., Fairburn, Ga., a corporation of Georgia
Application December 9, 1949, Serial No. 132,103
3 Claims. (Cl. 296—28)

2. A combined knock-down canopy frame and seat construction adapted to be associated with a vehicle body and comprising a bottom frame section including spaced longitudinal tubular bars bent at their ends into upstanding vertical portions, transverse end members interconnecting the longitudinal bars, and a transverse frame spacer member detachably interconnecting said longitudinal bars spaced from one end member, a canopy supporting top frame section comprising transverse end bow members, said bow members being bent at their ends to form downwardly extending vertical bar members constituting corner posts, a longitudinal top side bar detachably connecting the corner posts at each side of the



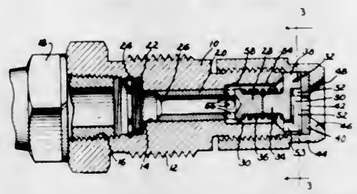
frame, the lower ends of the corner posts telescoping into the ends of the upstanding vertical tubular portions and detachably secured therein, a seat structure supported by and detachably secured to the bottom tubular members at each end of the frame, and a seat structure supported by and detachably secured to said spacer member and the bottom longitudinal bars, and bolt means for securing all detachable connections.

2,665,166
CAR SIDE SUN VISOR
Glenn L. Roark, Los Angeles, Calif.
Application August 20, 1951, Serial No. 242,710
1 Claim. (Cl. 296—97)



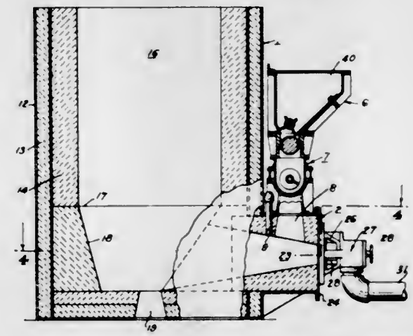
A car-side, sun visor including an integral bracket having a plate attachable to a header face of a vehicle door frame and having a downwardly bent bow with an oblique, upwardly and inwardly projecting flat tubular socket opening upwardly as to the bow (in applied position), and a visor hanger including a pivoted wing having an overlapped and spaced hook directed downwardly of the top face of the wing and which is adapted to be slipped downwardly into the top open end of said socket, and a visor member having coaxial bearings including a pivot substantially aligned with the top edge of said member and on which the wing is mounted.

2,665,167
FUEL INJECTION NOZZLE
Carl F. High, Detroit, Mich.
Application July 6, 1951, Serial No. 235,409
2 Claims. (Cl. 299—107.6)



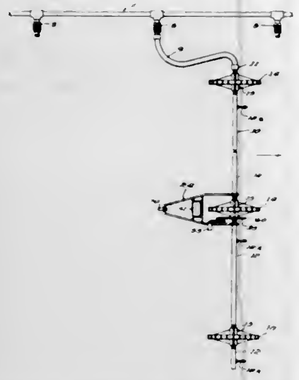
1. In a fuel injection nozzle, a casing having a bore formed therein and an enlarged counterbore in communication with said bore at its downstream end, said casing having a fuel inlet in communication with said bore at its upstream end, a cylindrical valve member slidably disposed within said bore and having one end in constant communication with said inlet, said valve member having a fuel port formed in its wall and being movable from a retracted position with said port within said bore and closed by the wall thereof to an advanced position with said port moved downstream into communication with said counterbore, said valve member having a spring abutment disposed thereon downstream from said port, nozzle means positioned in said counterbore downstream from said valve member, and a compression coil spring disposed downstream from said port and between said abutment and said nozzle means, said nozzle means having an outlet passage therethrough extending from a point in said counterbore outside the coils of said spring so that fuel will flow entirely outside said spring from said port to said outlet passage.

2,665,168
ATMOSPHERIC CONDITIONING METHOD AND APPARATUS
William L. Kerlin, Los Angeles, Calif., assignor to Clellan Ross Pleasants
Application April 19, 1948, Serial No. 21,778
8 Claims. (Cl. 299—28)



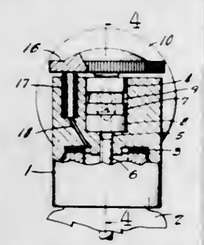
1. In a method of changing the humidity of the atmosphere, the introducing of calcium chloride over the hottest portion of a burner flame, the introducing of a combustible substance to a cooler portion of the burner plane for imperfect combustion, the mixing of the product of calcium chloride vaporization and the imperfect product of combustion in the presence of heat, and emitting the same in ascending convection currents in generally contra-clockwise direction.

2,665,169
MECHANICAL MEANS FOR PROPELLING FIELD SPRINKLING APPARATUS
Dale W. Tipton, Lawndale, Calif.
Application January 16, 1951, Serial No. 206,151
11 Claims. (Cl. 299—47)



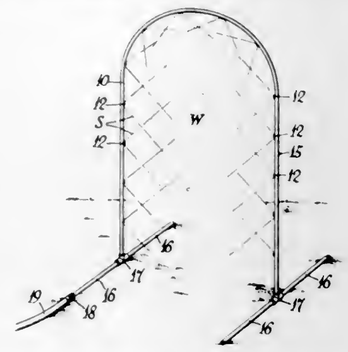
1. Mechanical means for advancing a string of universally connected irrigating pipe sections supported by ground wheels across a field comprising a chassis provided with longitudinally spaced apart bearing arms carrying means detachably encircling said irrigating pipe sections at points located adjacent each side of a selected wheel, and driving means carried by said chassis and operatively connected with mechanism carried by said irrigating pipe sections to provide a torsional force rotating the latter together with the ground wheels supporting the same.

2,665,170
ATOMIZER
Joy B. Schmitt and Alvin J. Attinger, Toledo, Ohio, assignors to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application January 22, 1953, Serial No. 332,736
4 Claims. (Cl. 299—88)



1 An atomizer having an atomizing head, a liquid container to which the head is attached, a rotatable and axially movable valve threadedly mounted within a vertical bore in the head, a liquid outlet tube depending from the head into the container, a spray discharge nozzle on the head in communication through a connecting passage with the liquid outlet tube, said valve having closing association with said connecting passage, means for supplying atomizing air to the discharge nozzle, a nipple extending upwardly from the atomizing head, said nipple composed of a yieldable material, means forming a passage from the nipple to the underside of the atomizing head to supply atmospheric air to the container, and a hand knob on the valve above the atomizing head, the hand knob having a downwardly facing surface in sealing contact with the nipple when the valve has closing association with the liquid connecting passage between the liquid outlet tube and the discharge nozzle.

2,665,171
SPRAY FORMING SHOWER TUBE
Willard C. Stievater, Tonawanda, N. Y.
Application August 17, 1950, Serial No. 179,977
2 Claims. (Cl. 299—104)

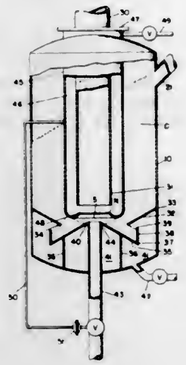


1. A water spraying device comprising a section of tubing formed with a closed end and an open end adapted for connection to a source of water under pressure, said tubing being formed with a plurality of spaced radially disposed screw-receiving through holes having their axes in a common plane longitudinally of the tubing and being formed with a plurality of small water discharge through holes equally spaced from each screw receiving hole and having their axes parallel to the axis of the associated screw receiving hole; and a screw screwed into each screw receiving hole, each of said screws serving to prevent flow of water through its screw receiving hole and being formed with a frusto-conically shaped head portion which overlies the associated plurality of discharge holes in outwardly diverging spaced relation and which serves to deflect and thereby convert the parallel streams of water emerging from the associated plurality of discharge holes into water spray suitable for intended uses of the device.

2,665,172
APPARATUS FOR PNEUMATICALLY ELEVATING CONTACT MATERIAL
Clarence H. Thayer, Wallingford, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application June 21, 1951, Serial No. 232,815
6 Claims. (Cl. 302—53)

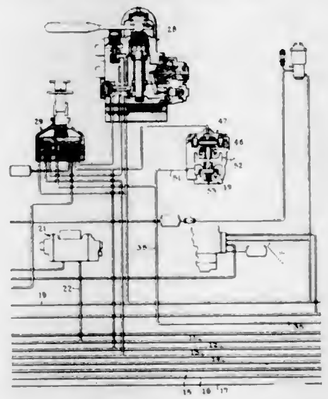
1. Apparatus for elevating granular material from a lower chamber to an upper chamber which comprises an upright elevating conduit having its lower open end extending through the top of said lower chamber to be positioned therewithin and its upper open end extending into the upper chamber, means for supplying contact material to the lower chamber, a plate positioned below the lower end of said conduit providing a lower fluid space with the bottom of the lower chamber, said plate being in the form of a truncated cone and having an upstanding flange at its outer edge positioned in spaced relation with the wall of the lower chamber and

adapted to receive a body of contact material, an aperture generally centrally of said plate, a lifting fluid conduit having its upper end extending through the bottom of the lower chamber and received in said aperture in the plate



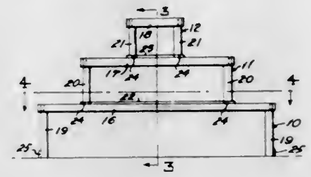
with its lower end portion positioned exteriorly of the lower chamber, means for supplying fluid to said space for directing the body of contact material laterally across the plate toward the upper end of the lifting fluid conduit for passage into and through the elevating conduit.

2,665,173
AIR BRAKE
John Van Varick Elsworth, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application July 23, 1951, Serial No. 238,150
3 Claims. (Cl. 303—40)



1. A locomotive brake system comprising a normally charged brake pipe; means operable to vent said brake pipe; a control valve functionally connected with said brake pipe; an application and release pipe; an independent brake valve operable to charge and to vent said application and release pipe; a brake cylinder functionally connected with said control valve and with said application and release pipe; a controlled emergency pipe; means operable to charge said controlled emergency pipe at a restricted rate; controlled emergency means effective when actuated to restrict the rate of development of pressure in said brake cylinder during an emergency application of the brakes, said means being actuated when said controlled emergency pipe is charged; a normally closed valve; and a pressure actuated motor having a charging connection from said application and release pipe and effective when charged to open said valve and thereby vent said controlled emergency pipe.

2,665,174
MULTIUNIT SCAFFOLD
Edward L. Clarke, Scranton, Pa.
Application August 13, 1947, Serial No. 768,447
4 Claims. (Cl. 304—2)

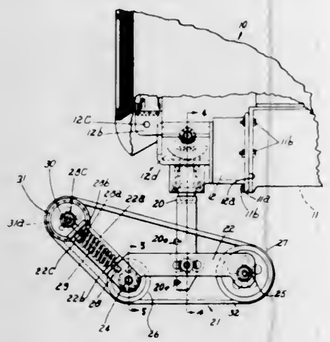


1. A portable and knockdown multi-unit scaffold useful as a substitute for a stepladder especially in homes, offices and stores, and comprising in combination a plurality of elongated table-like platforms of successively smaller sizes at least as to length; said platforms adapted to be removably mounted and substantially centered one upon the other in order of size with the larger one lowermost as a base and the smaller one uppermost; each of said platforms below said uppermost one providing transversely coextensive plane and marginally unobstructed step-providing working areas extending inwardly from each end and said uppermost platform providing a longitudinally and transversely coextensive plane and marginally unobstructed working surface; a leg dependent from each corner of each of said platforms above said base platform, each of said legs being L-shaped in cross-sectional area, sockets carried by such of the platforms as are located below the uppermost one, said sockets receiving the leg ends of the next upper platform; each of said sockets being formed in part by a corner portion of a rectangular platform reinforcing board affixed to the top of each of said socket-providing platforms and in part by an L-shaped bracket mounted adjacent to and in spaced relation to the sides of a said board corner portion; and the ends of said boards located inwardly of the said step and working surface-providing areas of said socket-carrying platforms.

2,665,175
TRACK LAYING FRONT WHEEL FOR TRICYCLE TRACTORS
Raymond J. Miller, Detroit, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application May 17, 1952, Serial No. 288,414
1 Claim. (Cl. 305—9)

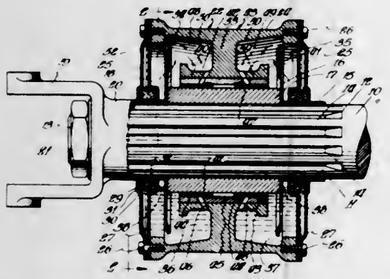
An endless track wheel for tractors comprising a frame structure including a pair of laterally spaced, longitudinal frame sills, a pair of axles mounted between said frame sills in longitudinally spaced relation, a plurality of V-belt pulley structures respectively journalled on each axle with their pulley grooves in axial alignment, a plurality of V-belts respectively entrained around said pulley structures, a pair of brackets respectively secured to said frame sills in forwardly and upwardly projecting relationship, a pair of laterally outwardly projecting, longitudinally spaced

ears on each bracket, said ears having longitudinally aligned holes therein, a rod slidably journalled in each pair of holes, a transverse axle carried by the forward ends of said rods, a plurality of V-belt idler pulleys journalled on said axle and respectively engageable with said V-



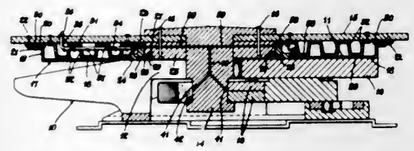
belts, a spring seat secured to each rod at a point intermediate said ears, and a compression spring surrounding each rod and operating between said spring seat and the rearmost ear to urge the corresponding rod forwardly, thereby tensioning said V-belts.

2,665,176
BEARING
Paul T. Brantingham, Fort Wayne, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application October 26, 1951, Serial No. 253,396
10 Claims. (Cl. 308—127)



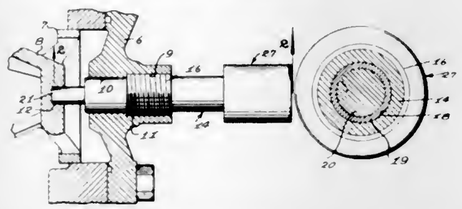
1. A bearing comprising a rotatable shaft, a housing surrounding a portion of said shaft; a flange disposed normal to the rotational axis of said shaft projecting inwardly from the interior surface of said housing, said flange serving as one wall of a lubricant reservoir formed in the bottom of said housing; a sleeve encircling said shaft secured to said flange, said sleeve having a portion extending axially from said flange, said portion having an outwardly extending flange formed thereon axially spaced from and of shorter radial length than said inwardly extending flange; a journal bearing member secured to said sleeve having a bearing surface for rotatably supporting said shaft; means for lubricating said bearing surface from lubricant contained within said reservoir including a lubricant receiving chamber defined by a portion of the interior wall surface of said housing, the inwardly and outwardly extending flanges, and a portion of the outer surface of said sleeve extending between said flanges, means establishing lubricant communication between said chamber and said bearing surface, and lubricant conveying means for transferring lubricant from said lubricant reservoir to said chamber.

2,665,177
FIFTH WHEEL FOR TRACTOR TRAILERS AND THE LIKE
Gustave C. Schaefer, Canton, Ohio
Application October 15, 1952, Serial No. 314,799
6 Claims. (Cl. 308—136)



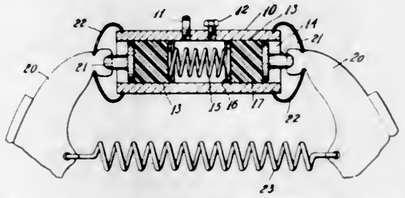
1. An upper fifth wheel member for detachable connection to a lower fifth wheel member having a substantially flat top surface, said upper fifth wheel member comprising a substantially horizontal plate, a king pin fixed to said plate and depending therefrom for detachable connection to the lower fifth wheel member, an annular lubricating housing, means rotatably mounting said housing upon the underside of said horizontal plate concentric with the king pin, said housing having a flat bottom wall adapted to contact the flat top surface of the lower fifth wheel member, a disc plate fixed to the underside of the horizontal plate within the housing, and annular corrugations in the disc plate concentric with the king pin and contacting the bottom wall of the housing.

2,665,178
PUMP LINER SPACER STUD
Thomas R. Hammer, Horton H. Ingersoll, and Clarence R. Hodges, Edinburg, Tex.
Application September 14, 1951, Serial No. 246,675
3 Claims. (Cl. 309—3)



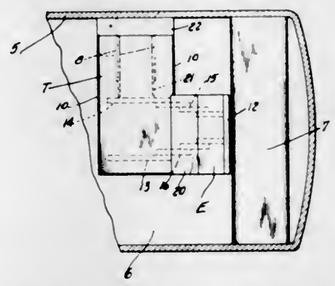
1. In a pump liner spacer-stud, an elongated body having an end portion adapted to be mounted through the head of a pump cylinder having a liner cage therein, said body being formed with a smooth longitudinal bore extending therethrough and having another end portion, a smooth plunger longer than said body and extending beyond both ends of said body, said plunger being slidably engaged with said bore with one end thereof arranged to engage the liner cage within the cylinder, and an adjustable cap nut threaded on said other end portion of the body and engaging the adjacent end of the plunger, said bore of the body being formed in its side wall with a concentric annular recess located close to the end of said body remote from the cap nut, and a packing ring confined in said annular recess and circumposed on said plunger.

2,665,179
PISTON FOR HYDRAULIC BRAKES
Joseph L. Salvatora, Pittsburgh, Pa., assignor to Richard G. Ellas, Jennerstown, Pa.
Application July 8, 1950, Serial No. 172,717
6 Claims. (Cl. 309—4)



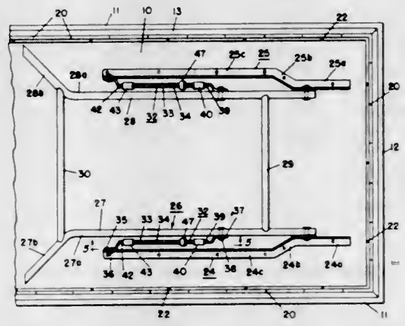
1. A piston for a hydraulic device having an internal piston receiving bore such as a brake cylinder or the like comprising an integrally molded head and body of a polyamide plastic, said head having a cup shaped depression therein with sloping sides forming with the external periphery of the head a tapered wall varying in thickness from a minimum at its external edge to a maximum at its junction with the body of the piston, said external edge having an outer perimeter not less than the maximum perimeter of the piston body, and said piston body having a perimeter substantially equal to that of the internal perimeter of the piston bore and a length such that the combined head and body are prevented from turning in the piston bore about a line transverse to the axis of the piston bore.

2,665,180
EXTENSIBLE TABLE FOR HOUSE TRAILERS
Myron C. Poole, Bay City, Mich., assignor to Redman Trailer Company, Alma, Mich.
Application March 6, 1950, Serial No. 147,884
1 Claim. (Cl. 311—41)



In a trailer coach, a stationary cabinet mounted therein with its one end tight against one wall of said coach, spaced apart slide members mounted on said cabinet extending outwardly from said wall, and a table top normally tight against said wall of the coach mounted for endwise, slidable movement on said cabinet away from said wall to permit insertion of an additional table leaf in the space created when the table is adjusted away from said wall, said table having guide members mounted thereunder for slidably engaging the slide members on said cabinet, and a cut-out section in the outer portion of the side edge of the adjustable top, spaced-apart, laterally extending guide members secured under said top, the innermost of said members being in engagement with the outer ends of the first-mentioned guide members under said top to engage the outer end of the slide members on the cabinet and prevent marring of the wall of the trailer when the top is pushed inwardly, laterally disposed slide members connected to the lower face of the cut-out section slidably engaging the laterally extending guide members under said top, a supporting leg rigidly connected to said laterally disposed slide members, and removable leaves adapted to rest on the laterally disposed slide members to form additional table area when the said laterally disposed slide members are in extended position.

2,665,181
FOLDING PAIRED LEGS FOR TABLES
Joseph Pucci, Philadelphia, Pa., assignor to P. B. R. Manufacturing Co., Philadelphia, Pa., a partnership composed of Joseph Pucci, Sidney Bobb, and Isadore B. Rachman
Application April 2, 1952, Serial No. 280,044
3 Claims. (Cl. 311—87)

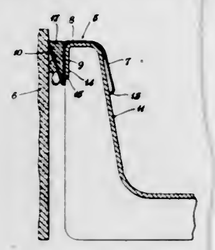


1. A table comprising a top having a continuous peripheral apron depending an appreciable distance therefrom and a pair of leg-members mounted on the underside of the top, said leg-members having releasable braces for locking them securely in generally vertical open position and being foldable upward to closed position wherein they lie substantially parallel to and closely adjacent the underside of the top and are disposed entirely within the confines of the apron, each of said leg-members including a pair of laterally spaced tubular legs, the major upper portions of which parallel each other and are spaced inward appreciably from the lateral edges of the top, the legs of each pair being oppositely bent, somewhat above their lower ends, to provide lowermost laterally-diverging generally straight foot-portions, each of said leg-members also including at least two rigid transverse tubular connectors welded to and extending laterally intermediate the legs, one of said connectors being disposed substantially above the bends and one appreciably below the bends, whereby said leg-members remain rigid under the weight of the top, without any appreciable tendency to bend further or buckle at the bends.

2,665,182
BACK TRIM AND SEALING MOLDING
Jacques Stanitz, Warren, Ohio, assignor to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York
Application January 6, 1950, Serial No. 137,083
6 Claims. (Cl. 311—107)

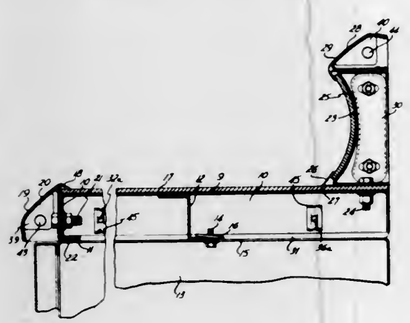
1. In sink and table top erection construction wherein rectilinearly-aligned, upstanding sink and table top splash backs are positioned against

an irregularly formed, wavy, non-planar, room side wall surface leaving an uneven crack-space of varying width between the aligned splash backs and the non-planar wall surface, the combination of a compensating molding member having a longitudinally extending inverted, U-shaped portion snap-fitting over said upstanding splash backs with one U-leg in front of and the other U-leg behind the splash backs, means securing



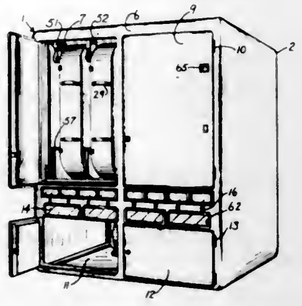
said molding member to said splash backs, a resilient, longitudinally extending flange coextensive with and projecting upwardly outwardly from the bottom end of said other U-leg behind said splash backs, said resilient flange having an upper free edge in yielding engagement with said non-planar wall surface and forming with said other U-leg a generally V-shaped pocket, and sealing compound filling said pocket closing said crack-space.

2,665,183
ORNAMENTAL TRIM STRIP FOR CABINET TOPS
Stewart S. Battles, Galesburg, Ill.
Application January 11, 1949, Serial No. 70,279
1 Claim. (Cl. 311—107)



For use with a counter means having a covering and an attaching flange depending from the edge of the covering, including an open bottom channel member having one side attached to said flange and the other side extending outwardly therefrom, a trim and sealing strip comprising a thin metallic member having one edge bent to form a channel in hooked engagement with the free edge of the channel member and extending upward and over the channel member to provide a raised ridge above and opposite to the meeting sides of the channel member and the attaching flange and extending downward and bent back upon itself to provide a slanting flexible lip for biting into the covering, and then having a downwardly bent flange for holding engagement between the channel member and the attaching flange.

2,665,184
VENDING MACHINE
Paul E. Hord, Tebbetts, Mo.
Application July 19, 1951, Serial No. 237,497
2 Claims. (Cl. 312—97)

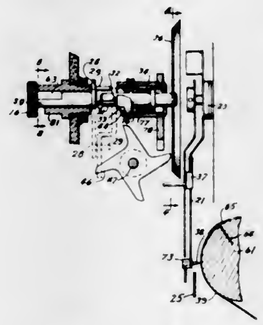


1. A vending machine embodying a casing having an opening for access to the interior thereof, a door on the casing closing said opening, a plurality of article containing cartridges removably supported in the casing, each of said cartridges including an elongated vertically arranged housing, said housings each having a discharge opening in the lower portion thereof, spaced shafts rotatably mounted in the housing, a conveyor in each housing and operatively engaged with said shafts, a plurality of article holders on the conveyors, driving means in the casing adjacent each of the cartridges therein, clutch means operatively conecting one of the shafts in each housing with the respective driving means, means selectively operable for actuating the driving means for rotating the shafts and moving the conveyor in the respective housing in one direction sufficiently to move one article holder into alignment with the discharge opening for dispensing an article from said holder, means preventing movement of the shaft and conveyor in the opposite direction, a delivery chute in the casing and having one end thereof accessible from the exterior of the casing, and means in the casing for directing articles dispensed through the discharge openings in the housings to the delivery chute.

2,665,185
PENCIL CHART MECHANISM
Louis A. Paine, West Lafayette, Ind., assignor to Duncan Electric Manufacturing Company, Lafayette, Ind., a corporation of Illinois
Application April 14, 1949, Serial No. 87,545
4 Claims. (Cl. 346—30)

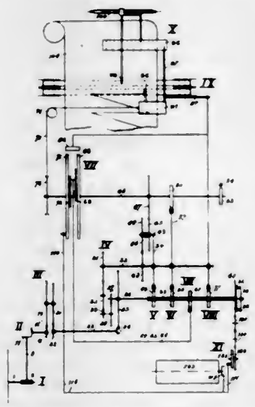
1. A recording maximum-demand meter including a demand measuring element including a pusher, a maximum demand pointer frictionally retained at any position to which it is moved and movable upscale by the pusher, a marking pencil lead carried by the pointer, a chart adjacent the path of the lead but at a position such that the lead does not normally mark thereon, a cover for said mechanism, a reset knob extending through said cover, and reset and chart-marking and chart-moving mechanism within said cover adapted to be actuated by turning said knob and including supporting means, a rotor, means mounting the rotor for rotation and axial movement in a position such that axial movement in one direction will press the rotor against the pointer and move the lead thereof into marking engagement with the chart, a spring urging said

rotor in that axial direction, cam means cooperating between said rotor and said supporting means for moving the rotor out of contact with the pointer and having an abrupt shoulder for allowing the spring to move the rotor axially as specified, and a reset lever carried by said rotor and positioned at the time of said axial movement beyond the point of maximum possible movement of the pointer but moving with said



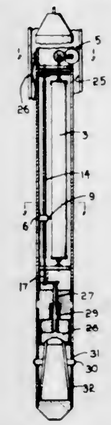
rotor to move said pointer along said chart toward the zero position, said reset lever being resilient and sufficiently yieldable to release said pointer under the influence of the pusher after the pointer has pushed the pusher downscale; said cam means being shaped to leave the rotor bearing on the pointer to retard its upscale movement by the pusher until the rotor has been turned to move the lever past the zero position.

2,665,186
CHRONOCOUNTER FOR MEASURING OUTPUT OF FLUIDS
Georges Jean Louis Vanden Berghe and Philippe Jacques Fidèle Schaefer, Brussels, Belgium, assignors to Societe Anonyme de Distribution du Gaz (Distrigaz), Brussels, Belgium, a Belgian company
Application July 12, 1947, Serial No. 760,658
In Belgium October 11, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires October 11, 1960
5 Claims. (Cl. 346—33)



1. In an apparatus for use with a meter recording the quantities of a fluid passing through a system during successive intervals of time in such a manner that at the expiration of each recording period the quantity which has been passed through the system during that period is indicated, in combination, a time measuring member, a recording apparatus including a printing disc and a movable printing hammer located adjacent the periphery of said disc, means drivingly coupling said time measuring means to said printing hammer and arranged to move said hammer toward the periphery of the disc at periodic intervals, coupling means connecting the fluid meter to the printing disc, zeroizing means operated by said time measuring means and arranged to restore said disc to zero position following each operation of said hammer, uncoupling means associated with said zeroizing means and arranged to temporarily uncouple the disc from the meter shortly before operation of the hammer, movement storage means connected between said meter and said disc, said storage means being arranged to store movements of the meter during the period when the disc is uncoupled from the meter, and means connecting the disc to said storage means immediately subsequent to the operation of the zeroizing means, whereby the stored movement of the meter is transmitted to said disc.

2,665,187
DEVICE FOR MAKING PERMANENT RECORDS
Myron M. Kinley and John C. Kinley, Houston, Tex.
Application April 15, 1949, Serial No. 87,728
5 Claims. (Cl. 346—108)



1. A recording device for forming a permanent record within a well bore comprising, a frame, a cylindrical chart element mounted on the frame and constructed of a material having the property of transmitting light rays substantially longitudinally thereof without said rays being deflected or diffused to any appreciable extent in a direction transversely of the element, the outer surface of said element being capable of being scratched by a marking member, means for rotating the element in accordance with the movement of the device through the well bore, and a marking member engageable with the exterior surface of the chart element and movable relative thereto for scratching the surface of said element to form a graph thereon which is representative of the movements of said marking member.

CHEMICAL

2,665,188

STABILIZATION OF THE VISCOSITIES OF VAT DYE PASTES

Chris C. Schulze, Cranford, and Charles Orenyo, Bloomfield, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 3, 1951, Serial No. 204,288

5 Claims. (Cl. 8—34)

1. A vat dye in paste form essentially comprising a dispersion of said dye in water by means of a dispersing agent selected from a group consisting of water soluble lignosulfonates and reaction products of formaldehyde with a naphthalene sulfonate, said dispersion being stabilized at low viscosity with a trialkylolamine triester of an unsubstituted aliphatic carboxylic acid containing at least 4 carbon atoms.

2,665,189

METHOD OF TREATING A RUNNING BLANKET OF STAPLE LENGTH ARTIFICIAL FIBERS

Charles W. Cox, St. Albans, W. Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application April 12, 1949, Serial No. 87,089

1 Claim. (Cl. 8—156)



A method of treating artificial fibers of staple length comprising the steps of continuously advancing a running blanket thereof having a generally flat upper face along a continuous path while supporting the blanket from underneath by a liquid-permeable upper surface of a conveyor comprising closely-spaced elongated parallel rectangular areas, discharging at each of a plurality of fixed positions spaced at intervals along the path a thin high-velocity sheet of liquid downwardly into and through the blanket along a plane making a dihedral angle between 30 and 60 degrees with the upper face of that portion of the blanket advancing into the sheet of liquid, each sheet of liquid extending the full width of the blanket and being discharged at a velocity less than that which will cause any liquid passing completely through the blanket to force an appreciable quantity of fiber through said surface, and deflecting upwardly by said surface substantially all of the liquid of each sheet which goes completely through the blanket, said blanket being continuously advanced relative to the sheets of liquid to disintegrate successive portions of the blanket at repeated intervals and to repeatedly suspend the fibers thereof in the liquid derived from each sheet, and draining the liquid from each suspension of fibers through said surface as said suspension is carried by the surface away from the respective sheet of liquid which produced the suspension to repeatedly reform the blanket.

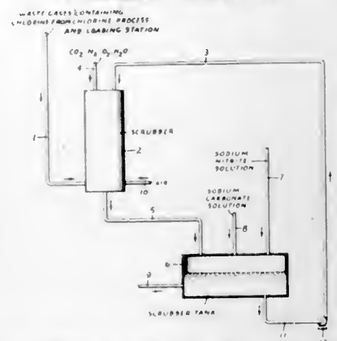
2,665,190

PURIFICATION OF WASTE GASES CONTAINING CHLORINE BY TREATMENT WITH AN ALKALINE NITRITE SOLUTION TO EFFECT REMOVAL OF THE CHLORINE CONSTITUENT THEREFROM

William J. Congdon, Hopewell, and Charles F. Weston, Prince George County, Va., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

Application July 28, 1950, Serial No. 176,272

9 Claims. (Cl. 23—2)



3. A process for the removal of chlorine from gases containing the same which comprises passing said gases in intimate contact with an alkaline $NaNO_2$-Na_2CO_3 aqueous solution having a concentration of 30 to 60 grams per liter $NaNO_2$.

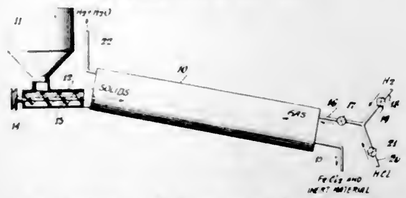
2,665,191

PREPARATION OF FERROUS CHLORIDE FROM IRON OXIDE-CONTAINING MATERIAL

Marion Ernest Graham, Parma, Ashland S. Henderson, Berea, and Irving P. Whitehouse, South Euclid, Ohio, assignors, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey

Application November 15, 1949, Serial No. 127,428

9 Claims. (Cl. 23—87)



1. The process of preparing ferrous chloride from a solid iron oxide-containing material, which comprises the steps of exposing said material to the action of a gaseous mixture, the essential active ingredients of which consist essentially of hydrogen and hydrogen chloride and containing at least as much hydrogen by volume as hydrogen chloride, during such exposure progressively raising the temperature of the material from a selected initial temperature in the range of about 500° F. to about 800° F. to a selected final temperature in the range of about 800° F. to about 1200° F., and wherein said final temperature is always substantially higher than said initial temperature, and also during such exposure and as the temperature of said solid material is increased, controlling the composition of the gaseous mixture to provide increasing proportions of hydrogen chloride in the gases in contact with said solid material.

2,665,192

PROCESS FOR THE PRODUCTION OF CUPROUS OXIDE

Percy John Rowe, Martinez, Calif., assignor to The Mountain Copper Company, Ltd., a corporation of Great Britain

No Drawing. Application January 23, 1951, Serial No. 207,423

5 Claims. (Cl. 23—147)

1. A process for production of finely divided cuprous oxide comprising adding sulfur dioxide to an alkaline aqueous slurry of finely divided solid cupric hydroxide in an amount sufficient to convert cupric hydroxide to solid cuprous sulfite in an acid aqueous slurry, and heating at a temperature of from 15° to 70° C. the so formed solid cuprous sulphite in the acid aqueous slurry having an acidity between the equivalent of 1 to 12 grams per liter of sulfuric acid to decompose the sulfite to finely divided cuprous oxide substantially free of metallic copper.

2,665,193

RED IRON OXIDE OF HIGH COLOR PURITY AND PROCESS OF MAKING SAME

George E. Noponen, White Bear, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application November 22, 1948, Serial No. 61,334

9 Claims. (Cl. 23—200)



5. A red iron oxide pigment product having a high degree of color purity and composed predominantly of non-angular particles as viewed at a magnification of 1200, said product being produced by the method comprising: forming an aqueous slurry of hydrous ferric oxide of uniform small particles in the presence of a substantially constant small controlled excess of free, unreacted ferric salt of a monovalent anion; heating said slurry in the presence of said small controlled excess of free, unreacted ferric salt of a monovalent anion, said heating being continued until the color of the resulting pigment product is unchanged on further heating; and separating, washing, and drying the pigment product.

2,665,194

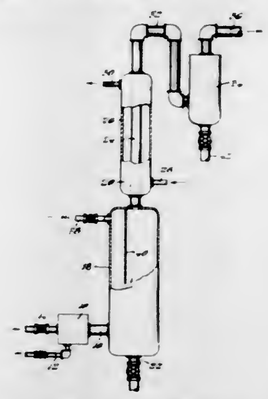
PRODUCTION OF CARBON BLACK FROM AEROSOLS

Merrill E. Jordan, Walpole, Mass., assignor to Godfrey L. Cabot, Inc., Boston, Mass., a corporation of Massachusetts

Application April 5, 1950, Serial No. 154,016

8 Claims. (Cl. 23—209.8)

6. An improved process for the production of channel carbon black comprising the steps of first forming an aerosol of a combustible gas and a liquid hydrocarbon by continuously introducing an atomized spray of the liquid hydrocarbon, ammonium chloride vapors and a stream of the gas into a heated space, vaporizing the liquid hydrocarbon therein, condensing the liquid hydrocarbon upon the nuclei normally present in the gas and additionally provided by the ammonium chloride vapors, and settling out those liquid hydrocarbon particles which are too large to remain suspended in the gas stream, then conducting the aerosol to an impingement combustion zone, burning a portion thereof in open flames to dissociate the remainder to carbon black, and collecting the carbon black deposited by impingement.



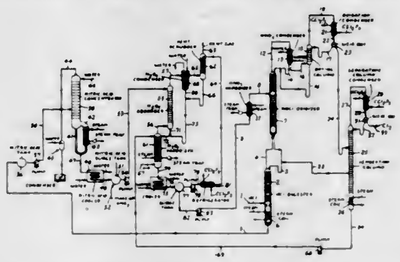
2,665,195

CHLORINE FROM HCl

William J. Congdon, Hopewell, and Samuel W. Grossmann, Petersburg, Va., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

Application March 20, 1951, Serial No. 216,592

7 Claims. (Cl. 23—219)



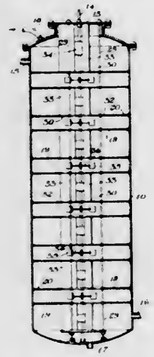
1. A two-stage cyclic method of converting HCl into chlorine which comprises introducing HCl into a first reaction zone together with effluent nitric acid from a second reaction zone to produce thereby as primary reaction products gaseous chlorine and nitrosyl chloride and nitric acid more dilute than said effluent nitric acid, discharging the more dilute nitric acid from the first reaction zone, passing the gaseous chlorine and nitrosyl chloride from the first reaction zone into the second reaction zone, introducing concentrated nitric acid of at least 75 weight percent concentration into the second reaction zone to react with the nitrosyl chloride therein to produce additional chlorine, nitrogen dioxide and water, discharging the mixture of gaseous nitrogen dioxide and chlorine from the second reaction zone, fractionating said mixture of gaseous nitrogen dioxide and chlorine to separate and recover the chlorine, and returning nitric acid diluted by the water of reaction as nitric acid effluent from the second reaction zone to the first reaction zone.

2,665,196

MULTISTAGE INTERNAL MIXER-SETTLER EXTRACTION APPARATUS

Noland Poffenberger, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application October 20, 1952, Serial No. 315,762
3 Claims. (Cl. 23—270.5)



1. An internal mixer-settler counterflow extractor apparatus comprising a vertical cylindrical vessel, having an access port in one head thereof, said vessel being divided into terminal settling chambers with alternate mixing and settling chambers therebetween by horizontal plates therein, each with a circular coaxial opening therethrough of a diameter no larger than that of said access port; a coverplate for said access port, supporting a plurality of disks of diameter just less than that of the openings in said plates and spaced apart so that one such disk lies in the plane of each of said plates when the access port is closed with the coverplate; a rotor shaft coaxial with the cylinder and extending through the coverplate and through the said disks; all of the aforesaid disks having a central opening to allow free movement of said rotor shaft and for flow of liquid from one face of said disks to the other; vertically disposed radial impeller blades, in each of the mixing chambers and mounted on the central shaft for rotation therewith; symmetrically disposed passageways near the periphery of each of said plates for movement of liquids from one chamber to another; means cooperative with said passageways in each of the settling chambers to divert liquid flow toward the center of the cylinder; an inlet for liquid feed to one of the two uppermost chambers; a similar inlet to one of the two lowermost chambers; outlets from each of the two end chambers; and means for driving the rotor shaft and its attached impellers.

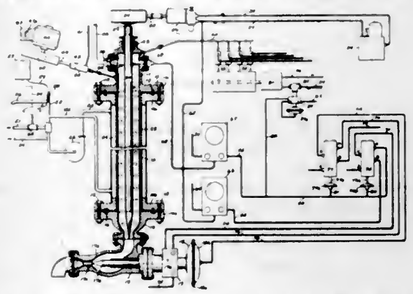
2,665,197

POLYMERIZATION CONTROL APPARATUS

Ernest Edward Rowland, Akron, Ohio

Application August 3, 1950, Serial No. 177,392
8 Claims. (Cl. 23—285)

1. Apparatus for the continuous operation of a polymerization process comprising means providing a reactor chamber having an elongated generally vertically disposed passageway, means for introducing liquid charge material into the upper portion of said chamber, a mixing device in said passageway, power means for moving said mixing device, variable means restricting and controlling the discharge of product from the lower end of said chamber, a control device responsive to the resistance of the charge material in said passageway exerted against said mixing device, and an operative connection be-



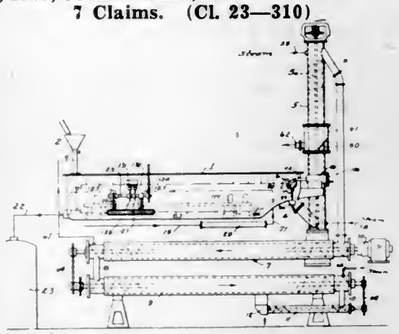
tween said control device and said discharge control means.

2,665,198

SOLVENT EXTRACTION RECOVERY METHOD AND APPARATUS

Guy N. Harcourt, Buffalo, N. Y., assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa., a corporation of Delaware

Original application October 18, 1943, Serial No. 506,679. Divided and this application August 10, 1949, Serial No. 110,638
7 Claims. (Cl. 23—310)



7. In the continuous method of solvent extraction of a dissolvable component from solid particles in which the particles are subjected to prolonged contact with a solvent for said component and then separated from such solvent, the improved method of removing solvent retained by the particles which comprises moving the particles, after such separation, upwardly along a confined upright passage, conducting steam through said moving mass of particles from both ends of said passage to an intermediate portion of the passage and there removing it with solvent vapors from the mass of particles and said passage, and then cooling the removed steam and vapors to condense and recover the solvent that was vaporized and carried off from said particles by said steam.

2,665,199

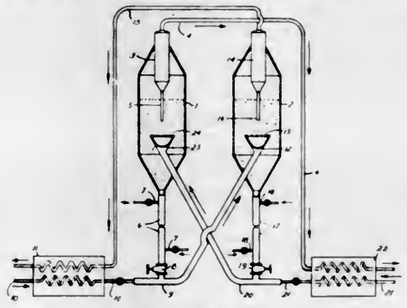
PROCESS FOR PRODUCING HYDROGEN AND CARBON MONOXIDE FROM GASEOUS HYDROCARBONS

Homer Z. Martin, Roselle, and Charles E. Heminger, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application December 10, 1946, Serial No. 715,258
3 Claims. (Cl. 48—196)

1. A method for producing an industrial gas containing carbon monoxide and hydrogen from

a gaseous hydrocarbon which comprises establishing a closed cycle, circulating through said cycle a finely divided solid containing a metal oxide capable of yielding oxygen in the presence of said hydrocarbon, establishing in said cycle a pair of separate beds of said finely divided solid, passing upwardly through one of said beds a preheated mixture of a gaseous hydrocarbon and steam at a velocity sufficient to maintain the finely divided solid in said bed in a fluidized condition while maintaining in said bed a temperature at which said hydrocarbon reacts with said



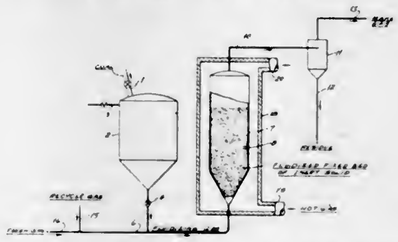
metal oxide, recovering a product gas from the upper part of said bed, passing said product gas in heat exchange relation to the gaseous feed to said bed, passing upwardly through the other of said beds an oxidizing gas at a velocity sufficient to maintain the finely divided solid in said bed in a fluidized condition while maintaining in said bed a temperature at which said metal is oxidized, recovering a hot residue gas from the upper portion of said bed and passing said hot residue gas in heat exchange relation to the oxidizing gas fed to said bed.

2,665,200

PROCESS FOR THE GASIFICATION OF SOLID CARBONACEOUS MATERIALS

Mooson Kwauk, New York, N. Y., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey

Application July 1, 1948, Serial No. 36,314
6 Claims. (Cl. 48—197)



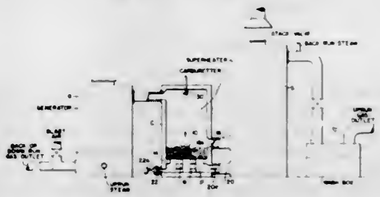
1. In the process for treating a solid carbonaceous material which tends to agglomerate on heating to effect gasification thereof in a gasification zone maintained under gasification conditions, the improvement which comprises disposing within said zone a substantially non-transitory mass of unreactive solid contact material in the form of particles having a relatively high settling rate in gaseous suspension, continuously introducing into the lower portion of said zone solid carbonaceous material in the form of particles having a relatively low settling rate in gaseous suspension, continuously introducing to the lower portion of said zone a stream of fluidizing gas which is unreactive with said solid contact material under conditions prevailing within the zone, passing said stream upwardly through said mass of particles with sufficient velocity to effect entrainment of said particles of carbonaceous material and to maintain said particles of contact material in highly agitated condition but without substantial entrainment of said particles of contact material, effecting substantial gasification of said solid carbonaceous material during its passage through said contact material within said zone, continuously removing from the upper portion of said zone an effluent stream of gaseous reaction products containing entrained residual solid material resulting from gasification of said solid carbonaceous material.

2,665,201

MANUFACTURE OF CARBURETED WATER GAS AND IN CARBURETORS FOR USE THEREIN

Norman Henry Williams, Westminster, England, assignor to Humphreys & Glasgow Limited, Westminster, England

Application August 29, 1949, Serial No. 112,906
Claims priority, application Great Britain September 16, 1948
1 Claim. (Cl. 48—205)



In the manufacture of carburetted water gas involving an uprun, a back run, and a blow period, the following steps, spraying oil during the uprun into the uprun make gas as the latter enters the carburetter, subjecting said oil to substantial evaporation in the carburetter and passing the consequently produced mixture of oil vapour and gas, immediately before exit thereof from the carburetter through a carbon arresting filtering medium to arrest unevaporated oil and carbon residues; then passing the superheated steam during the back run through the said filtering medium in the opposite direction from that of the uprun whereby to cause said steam to react with the arrested carbon residues on the medium to form water gas; then passing air through said filtering medium during the blow in the said opposite direction from that of the uprun so as to meet the reaction gases immediately on its emergence from said medium, whereby to cause unevaporated oil and carbon residues arrested by said medium to be burned; and then immediately passing the resulting mixture of reaction gases and combustion products into the superheater.

2,665,202

ORGANIC THIOCYANATE HERBICIDES

David T. Mowry and Arthur H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

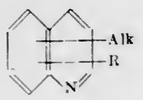
No Drawing. Application September 26, 1951, Serial No. 248,466
2 Claims. (Cl. 71—2.3)

1. A herbicidal composition including a carrier and containing 2-phenoxyethyl thiocyanate as

the active ingredient, said thiocyanate being present in said composition in a phytotoxic concentration.

2,665,203
HERBICIDAL METHOD
William S. Emerson and Robert A. Heimsch, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application January 25, 1951, Serial No. 207,845
5 Claims. (Cl. 71—2.5)

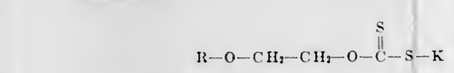
5. A method of destroying undesired plants which comprises applying to said plants a toxic quantity of a herbicidal composition including as the active ingredient a quinoline compound having the formula



in which Alk denotes an alkyl radical of from 1 to 4 carbon atoms and R is selected from the class consisting of hydrogen and the nitro radical.

2,665,204
METHOD AND COMPOSITION FOR THE CONTROL OF UNDESIRABLE VEGETATION
Arthur W. Swezey, Garden Grove, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application November 23, 1951, Serial No. 257,937
12 Claims. (Cl. 71—2.6)

1. A method for the suppression of the growth of undesirable vegetation which comprises the step of exposing the seeds and emerging seedling rootlets of such vegetation to the action of a growth inhibiting amount of a potassium xanthate of a chloroaryloxyethanol having the formula



wherein R represents a chloroaryl radical.

2,665,205
HOT WORK STEEL ALLOY
Leonard V. Klaybor, Dunkirk, N. Y., assignor to Allegheny Ludlum Steel Corporation, Brackenridge, Pa., a corporation of Pennsylvania
No Drawing. Application October 13, 1951, Serial No. 251,243
6 Claims. (Cl. 75—126)

1. An improved hot work die type of steel alloy which is tempered by heat treatment which contains about .60 to 1.25% carbon, about 3 to 6% chromium, about 2 to 3.5% titanium, about .10 to 1.5% silicon, about .50 to 2% each of molybdenum and tungsten, up to about .50% manganese, up to about 1% vanadium, and the remainder iron with incidental impurities; the carbon and titanium being highly essential in the ranges set forth, and the alloy being characterized by its high hot abrasion resistance with a good impact strength.

2,665,206
SIZING OF FIBROUS MATERIALS AND COMPOSITIONS USEFUL FOR SIZING AND FOR OTHER PURPOSES
Theodore F. Bradley, Oakland, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 15, 1948, Serial No. 33,218
10 Claims. (Cl. 92—3)

5. Cellulose fibers having the surfaces thereof coated with a precipitate of a cyclic extract of predominantly aromatic and naphthenic nature from a mineral oil, together with from about 3 to 75% of naphthenate salts derived from naphthenic acids having an average acid number of between 100 and 200, said percentage being based on the total weight of naphthenates and extract present.

2,665,207
NAPHTHENATE SIZED PRODUCTS
Frank M. McMillan, Berkeley, and Robert D. Sullivan, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 29, 1948, Serial No. 35,988
6 Claims. (Cl. 92—3)

1. A paper product comprising sized cellulose fibers containing about 0.5% to about 5% by weight of sizing agent wherein the effective sizing agent is essentially naphthenates of naphthenic acids having an average acid number greater than 200 but not greater than about 400, together with a mixture of cyclic components of petroleum soluble in solvents which are selective for non-paraffinic constituents thereof.

2,665,208
MANUFACTURE OF FOODSTUFFS
Louis Spieser, Zurich, Switzerland, assignor to Nibbit Products Association Ltd., Zurich, Switzerland
No Drawing. Application June 16, 1951, Serial No. 232,069
3 Claims. (Cl. 99—1)

1. The method of producing a foodstuff comprising cooking an edible starch-containing tuber without the addition of water, mixing about 30 to about 35 parts by weight of the cooked product with about 70 to about 65 parts by weight of a dry edible powder consisting essentially of starch while keeping the water-content of the resulting homogeneous mixture not greater than 35%, pressing said mixture until the water content of the mixture is between about 10% and about 12% to form a tough cuttable mass, subdividing said pressed mass into smaller units, and frying the latter for a short period of time and producing porous expanded units.

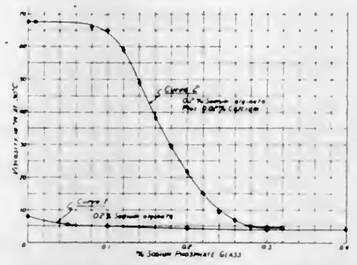
2,665,209
NONCAKING FEED SUPPLEMENT
John W. Brodhacker, United States Navy, assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application July 31, 1951, Serial No. 239,639
9 Claims. (Cl. 99—9)

1. A dry, non-caking, fermentation residue feed supplement to which formaldehyde and a material selected from the group consisting of alkali metal hydroxides and alkaline earth metal hydroxides have been added following the substantial evaporation of water but prior to final drying.

2,665,210
METHOD OF REFINING RAW COCOA AND RAW MASSES MADE THEREFROM
Oskar Friedrich Kaden, Hamburg-Gross Flottbeck, Germany
No Drawing. Application July 5, 1951, Serial No. 235,371
Claims priority, application Germany July 15, 1950
3 Claims. (Cl. 99—23)

1. A method of refining raw cocoa and raw masses made therefrom, which includes the steps of subjecting the material to be refined, in the presence of water containing a small quantity of a mixture of alcohol and acetic acid, to pressure above atmosphere for a short period of time, and immediately thereafter subjecting the thus treated material to pressure below atmosphere.

2,665,211
TREATMENT OF AQUEOUS DISPERSIONS
Charles T. Roland, Bethel, Pa., assignor to Hall Laboratories, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
Application April 26, 1950, Serial No. 158,220
30 Claims. (Cl. 99—25)



1. The process of treating an aqueous dispersion having as one constituent a water-soluble metal compound having the property of modifying the viscosity of an alginate dispersion, which comprises adding to the dispersion a molecularly dehydrated phosphate in an amount so related to the total metal in solution that some but not all of the metal will be sequestered, leaving some available metal ion in solution, and adding a water-soluble alginate to the dispersion whereby the free metal ion reacts with the alginate, the amount of free metal ion being so regulated that a portion only of the alginate will be reacted.

2,665,212
THICKENING AND STABILIZING AGENTS
Charles T. Roland, Bethel Borough, Pa., assignor to Calgon, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application August 29, 1950, Serial No. 182,140
17 Claims. (Cl. 99—25)

1. A process of making an aqueous solution or dispersion of desired viscosity, which comprises preparing a thickening and stabilizing agent having a viscosity substantially higher than the viscosity desired in the finished product by reacting an aqueous dispersion containing milk protein, a water-insoluble crystalline metaphosphate of the group consisting of potassium and sodium (Kurrol) metaphosphates and mixtures thereof, and a solubilizing agent for the metaphosphate and thereafter utilizing the thickening and stabilizing agent in the formulation of the finished aqueous solution or dispersion of desired viscosity.

2,665,213
PROCESS OF MAKING AN ALCOHOLIC MALT BEVERAGE
Shigeru Hayakawa, Musashino-Shi, Tokyo-To, Japan
No Drawing. Application October 13, 1952, Serial No. 314,575
6 Claims. (Cl. 99—31)

1. The process of making an alcoholic malt beverage which consists in heating water, malt and starchy material with sufficient lactic acid to maintain a pH of 5 to 6 and in the presence of from 0.3 to 0.5% of a salt of the group consisting of inorganic phosphates and sulphates, boiling, clarifying and concentrating the wort, boiling it with hops; separately extracting hops with a dilute solution of acid; boiling the extract; adding a phosphate and again boiling; adjusting the pH to from 6 to 7 by calcium carbonate; separately evaporating a portion of the said wort to substantially one third its original volume to make a frothing agent; combining the wort, hop extract and frothing agent with alcohol, diluting the mixture with carbonated water and bottling.

2,665,214
CORN PUFFS
Ernest Scott, Weslaco, Tex.
No Drawing. Application July 29, 1949, Serial No. 107,643
5 Claims. (Cl. 99—81)

1. A process for producing a food product including, rolling corn dough into a sheet, then dusting flour on each side of the sheet, then rolling the flour into the sheet, cutting the sheet into relatively small pieces, and cooking said pieces for a short interval of time in a hot body of cooking oil having a temperature of approximately 450° F. to puff the said small pieces, and for a longer interval of time in a second body of cooking oil at a temperature of approximately 350° F. to complete the cooking.

2,665,215
METHOD OF MAKING BAKERY PRODUCTS AND COMPOSITION THEREFOR
Philip P. Gray, Forest Hills, N. Y., assignor to Wallerstein Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application September 30, 1949, Serial No. 118,999
7 Claims. (Cl. 99—91)

1. The method of making bakery products which comprises forming a dough including fungal amylase contributing from 20 to 80 SKB alpha amylase units per 100 g. of flour, cereal diastatic enzymes contributing from 5 to 30 SKB alpha amylase units per 100 g. of flour, bacterial amylase contributing from 0.05 to 2.5 SKB alpha amylase units per 100 g. of flour, and thereafter baking the dough.

2,665,216
STABILIZED ICE-CREAM COMPOSITIONS
Jonas Kamlet, Stratford, Conn., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application December 30, 1952, Serial No. 328,812
3 Claims. (Cl. 99—136)

1. An ice cream composition comprising milk, cream, and sugar stabilized by incorporation therein of a compound selected from the class consisting of ammonium and alkali metal salts of polyacrylic acid.

2,665,217
METHOD FOR CONTROLLING MOLD AND DECAY ON FRESH FRUITS AND VEGETABLES
Lloyd J. Meuli, Long Beach, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application September 5, 1952, Serial No. 308,159
3 Claims. (Cl. 99—154)

1. A process for treating fresh fruits and vegetables to suppress the development of mold and decay, which comprises exposing such produce to the vapors of an aldehyde in the amount of at least 0.1 pound per 1000 cubic feet of an inert gas, the aldehyde being a member of the group consisting of α,β-dibromopropionaldehyde and α,β-dichloropropionaldehyde.

2,665,218
DENTAL CEMENTS
Jacob A. Saffir, Los Angeles, Calif.
No Drawing. Application March 12, 1948, Serial No. 14,629
5 Claims. (Cl. 106—35)

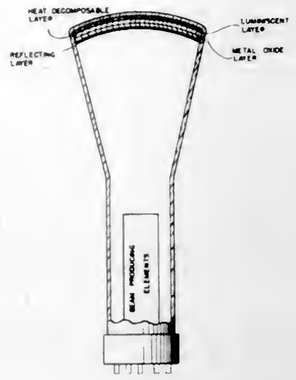
1. A composition for dental restorations in natural teeth consisting substantially entirely of a dental cement containing a normal fluoride effective for inhibiting dental caries from the group consisting of alkali metal fluorides, alkaline earth metal fluorides, cryolite and zinc fluoride in the approximate concentration range of 0.05% to 20% by weight, said fluoride being adapted to become available under the conditions prevailing in the oral cavity.

2,665,219
CERAMIC MATERIAL
Hans Thurnauer and Maurice A. Murray, Chattanooga, Tenn., assignors to American Lava Corporation, Chattanooga, Tenn., a corporation of Tennessee
No Drawing. Application November 22, 1949, Serial No. 128,931
6 Claims. (Cl. 106—46)

3. A ceramic material of oxide composition made by firing a mixture composed of at least 73.2% alumina, 17.8% clay, and as fluxes in compound form .05% of each of cobalt, lithium and magnesium and 1% of calcium and titanium.

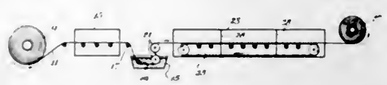
2,665,220
METHOD OF MANUFACTURING LUMINESCENT SCREENS
Johannes de Gier, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 26, 1949, Serial No. 78,507
Claims priority, application Netherlands March 5, 1948
2 Claims. (Cl. 117—33.5)

1. A method of manufacturing a luminescent screen assembly for a cathode ray tube which comprises depositing a layer of luminescent particles on a light-transparent base, applying a temporary layer of heat volatilizable film-forming organic coating material over said luminescent layer to form a smooth surface thereover, applying an electron and light-pervious layer of aluminum over said layer of heat-removable material, heating the aluminum layer in an oxidizing atmosphere to convert the same to a layer of an oxide of said metal, while removing the temporary intermediate layer, and thereafter applying a thin light reflecting electron permeable metal layer over said metal oxide layer, said



metal layer having a thickness which is substantially greater than said oxide layer.

2,665,221
PROCESS FOR IMPREGNATING CELLULOSIC SHEET
Donald H. Grangaard, Appleton, Wis., assignor to Paper Patents Company, Neenah, Wis., a corporation of Wisconsin
Application July 7, 1950, Serial No. 172,496
4 Claims. (Cl. 117—60)



1. In the manufacture of resin-impregnated, cellulosic sheet products by the use of water soluble phenolic resins, the improvement which consists in drying the sheet to be impregnated, and then impregnating the dried sheet by applying thereto a concentrated, water soluble phenol-aldehyde resin solution containing at least about 68 to 72 per cent phenol-aldehyde resin solids, the remainder being substantially volatilizable and substantially one half of said remainder constituting moisture, the moisture content of the dried sheet and the amount of resin solution applied to the sheet being so limited that the quantity m in the following formula, which quantity is representative of the total moisture available to wet the cellulosic fibers of the sheet at the time of impregnation, does not exceed 8–10%:

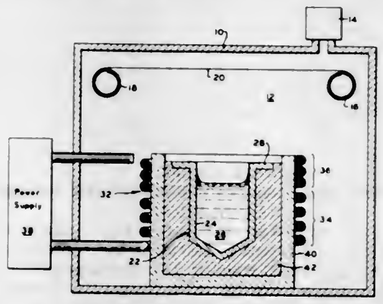
$$m=\frac{\left(m_s+\frac{r_v}{2}\right)}{s+r}\cdot 100\%$$

where s equals the total weight of a unit area of the dried, unimpregnated base sheet; m_s equals the total weight of the moisture in said unit area of said dried sheet; r is the total weight of the resin impregnating solution applied to said unit area of the dried sheet; and r_v equals the total weight of the volatile content of the resin impregnating solution applied to said unit area of the sheet.

2,665,222
RUBBERIZED BROOM FIBER FABRIC
Henri Boinet and Ernest Boinet, Saint-Quentin, France
No Drawing. Application May 10, 1951, Serial No. 225,676
Claims priority, application France March 8, 1951
3 Claims. (Cl. 117—80)

1. A fabric of broom fibres having a subcoating of a rubber solution rendering said broom fibers pliable and reinforced by an outer coating of calendered vulcanized rubber.

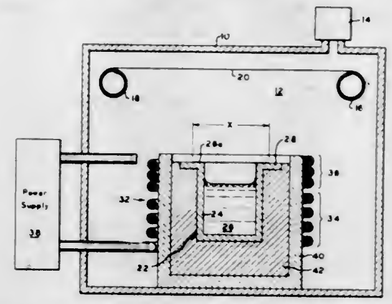
2,665,223
PROCESS FOR DEPOSITING AN ALUMINUM FILM ON A SUBSTRATE BY THERMAL VAPORIZATION
Philip J. Clough, Reading, and Earl E. Chadsey, Jr., Newton, Mass., assignors to National Research Corporation, Cambridge, Mass., a corporation of Massachusetts
Application December 31, 1949, Serial No. 136,327
11 Claims. (Cl. 117—107)



1. The process for the deposition of an aluminum film on a substrate by thermal evaporation of molten aluminum in a vacuum which comprises heating aluminum to a temperature sufficiently above its melting point to evaporate the aluminum, maintaining the molten aluminum, during evaporation, on an elemental carbon support, and maintaining at the interface between the support and the molten aluminum a layer of a carbide of a metal taken from the class consisting of titanium, zirconium, hafnium, vanadium, columbium and tantalum so as to prevent undue attack of the elemental carbon support by the molten aluminum, said carbide layer being formed by contacting said carbon support with a material comprising said carbide-forming metal while said support is maintained at a sufficiently high temperature to form the carbide layer.

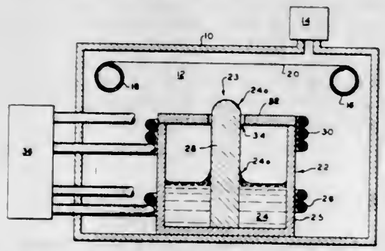
2,665,224
PROCESS FOR VAPOR COATING
Philip J. Clough, Reading, and Philip Godley 2nd, Lexington, Mass., assignors to National Research Corporation, Cambridge, Mass., a corporation of Massachusetts
Application March 7, 1950, Serial No. 148,224
4 Claims. (Cl. 117—107)

1. A process for coating a heat-sensitive substrate by vacuum-evaporating aluminum and condensing aluminum vapors on the substrate, said process comprising the steps of providing a source of aluminum in a vacuum chamber, evacuating said chamber, melting said aluminum to form a pool of molten aluminum, heating said aluminum to a temperature such that the aluminum vapors leaving said source have a temperature between about 1300° C. and about 1500° C., moving said substrate past said source at a speed adjusted to give a substantially uniformly thick coating having a reflectance for visible light on the order of 90%, and limiting the radiant heating area, which is in the neighborhood of said source and



which does not evaporate aluminum, to less than the effective evaporating surface area of the molten aluminum from which the aluminum vapors are derived by spreading said molten aluminum outwardly from the molten aluminum pool to cover hot areas of the source which would otherwise radiate heat to the substrate without contributing aluminum vapors.

2,665,225
APPARATUS AND PROCESS FOR COATING BY VAPOR DEPOSITION
Philip Godley 2nd, Lexington, Mass., assignor to National Research Corporation, Cambridge, Mass., a corporation of Massachusetts
Application April 27, 1950, Serial No. 158,493
5 Claims. (Cl. 117—107)

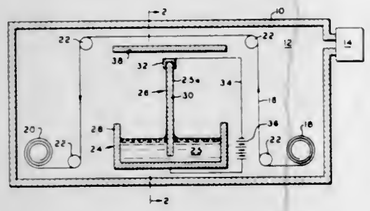


1. A process for coating a substrate with aluminum by vacuum-evaporating said aluminum and condensing said aluminum on said substrate, said process comprising the steps of providing a supply of said aluminum in a vacuum chamber, evacuating said chamber, melting at least a portion of said aluminum in said supply of aluminum, providing a wick element having at least a surface stratum comprising a compound selected from the class consisting of the carbides and nitrides of titanium, zirconium, hafnium, vanadium, columbium and tantalum, confining said molten aluminum in a low-temperature pool in contact with said wick element, heating said wick element to a temperature higher than the temperature in said pool, evaporating by said high temperature that aluminum which wets said wick element, shielding said substrate from radiation emanating from the low-temperature pool of molten aluminum, and moving said substrate past said wick element to coat aluminum on said substrate.

2,665,226
METHOD AND APPARATUS FOR VAPOR COATING

Philip Godley 2nd, Lexington, Philip J. Clough, Reading, and Robert A. Stauffer, Weston, Mass., assignors to National Research Corporation, Cambridge, Mass., a corporation of Massachusetts

Application April 27, 1950, Serial No. 158,494
7 Claims. (Cl. 117—107)



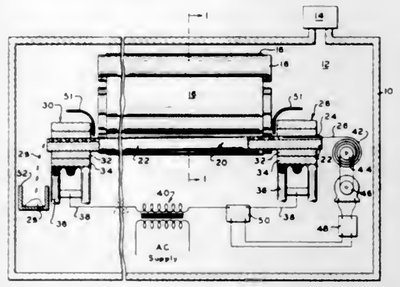
6. A process for coating a substrate with aluminum by vacuum-evaporating said aluminum and condensing said aluminum on said substrate, said process comprising the steps of providing a source of said aluminum in a vacuum chamber, evacuating said chamber, melting at least a portion of said aluminum in said source of aluminum, providing a wick element which is wettable by said aluminum, said wick element being substantially inert to molten aluminum and having at least a surface stratum comprising a compound selected from the class consisting of the nitrides and carbides of the metals titanium, zirconium, hafnium, vanadium, columbium and tantalum, confining said molten aluminum in a pool in contact with said wick element, heating said wick element to a temperature higher than the temperature in said pool by passing an electric current in series through said wick element and said aluminum in said pool, said wick element having a high resistivity as compared to said aluminum, evaporating, by said high temperature, that aluminum which wets said wick element, and moving said substrate past said wick element to coat aluminum on said substrate.

2,665,227
APPARATUS AND METHOD OF COATING BY VAPOR DEPOSITION

Philip J. Clough, Reading, and Philip Godley 2nd, Lexington, Mass., assignors to National Research Corporation, Cambridge, Mass., a corporation of Massachusetts

Application June 30, 1950, Serial No. 171,432
10 Claims. (Cl. 117—107)

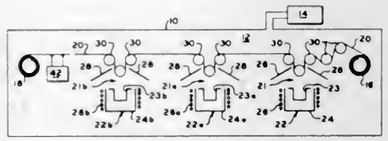
6. In a process for coating a moving substrate with aluminum by vacuum-evaporating said aluminum and condensing said aluminum on said moving substrate, the improvement which comprises the steps of feeding aluminum to a groove in the upper surface of a generally cylindrical elongated heated surface, said feeding being at a rate sufficient to maintain molten aluminum on said surface at substantially all times during coating, providing on said surface at least a stratum comprising a compound selected from the group consisting of the carbides and nitrides of titanium, zirconium, hafnium, vanadium, columbium and tantalum, said compound being wettable by, and substantially inert to, molten aluminum at temperatures on the order of 1300° C. to cause said aluminum to spread out in a thin extended layer of substantially greater size than the groove to which the aluminum is fed so that substantially all portions of said surface in position to radiate substantial quantities of heat to the substrate are covered by molten evaporating aluminum, heating said surface and the aluminum thereon to a temperature sufficiently high to evaporate the aluminum, and moving said substrate past said surface in a generally curved path to expose the substrate to aluminum vapors generated on the sides, as well as the top, of said elongated cylindrical surface to deposit a coat of aluminum on the substrate.



2,665,228
APPARATUS AND PROCESS FOR VAPOR COATING

Robert A. Stauffer, Weston, Mass., assignor to National Research Corporation, Cambridge, Mass., a corporation of Massachusetts

Application July 19, 1950, Serial No. 174,716
11 Claims. (Cl. 117—103)

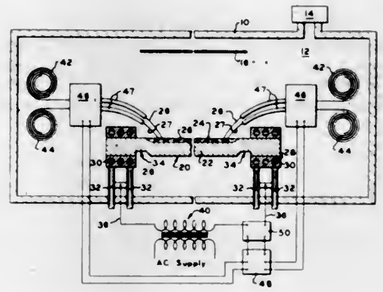


1. A process for coating a heat-sensitive plastic substrate by vacuum-evaporating aluminum and condensing aluminum vapors on the substrate, said process comprising the steps of providing a plurality of coating stations in a vacuum chamber, evacuating said chamber, evaporating aluminum in said chamber, moving said substrate past said coating stations, contacting said substrate by a stream of aluminum vapors during movement past each of said coating stations, substantially immediately after passing each coating station bringing said metal coating in contact with a surface cooled to a temperature below about 0° C. and maintaining said metal coating in contact with said cooled surface until substantially all that heat is removed from the substrate which was transmitted to said substrate by the metal vapors which condensed to form said metal coating, and maintaining at a temperature above about 1300° C. those vapors contacting said substrate prior to the time when it has a reflectance of about 70%, the metal coating applied at each coating station being brought into contact with said cooled surface in less than about one second after formation thereof.

2,665,229
METHOD OF COATING BY VAPOR DEPOSITION

Frederic W. Schuler, Cambridge, Wesley W. Mansir, Somerville, and William O. Di Pietro, Watertown, Mass., assignors to National Research Corporation, Cambridge, Mass., a corporation of Massachusetts

Application November 5, 1951, Serial No. 254,936
1 Claim. (Cl. 117—107)



The process of coating a substrate with aluminum which comprises providing a vacuum chamber in which aluminum may be evaporated under a vacuum, positioning said substrate within said vacuum chamber, providing a support comprising elemental carbon, providing a supply of aluminum and a second metal on said support, said second metal being taken from the class consisting of titanium, zirconium and tantalum, heating said aluminum and said second metal to a temperature above the melting point of said aluminum, said second metal being provided in an amount by weight equal to about 4% of the aluminum on said support, thereafter substantially continuously feeding aluminum to said support as said aluminum evaporates feeding said second metal to said support separately and simultaneously with the aluminum feed, said second metal being fed at a rate such that its weight is between about 1% and 5% of the weight of aluminum being fed at any period of time, heating said support to a sufficiently high temperature to vaporize aluminum on said support, advancing said substrate past said support, and condensing on said substrate aluminum vapors emanating from said support.

2,665,230
PROTECTION OF TIRE CELLULOSE FIBER AGAINST HEAT AGING

Howard M. Buckwalter, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application March 26, 1948, Serial No. 17,389
3 Claims. (Cl. 117—144)

3. A method of protecting the regenerated cellulose fiber reinforcement of a pneumatic vulcanized rubber tire containing a rubber air-retaining envelope against deterioration by heat aging while in service which comprises disposing within the said rubber air-retaining envelope a solid adsorptive carrier impregnated with a primary organic amine having a boiling point within the range of from 75° C. to 340° C., a melting point of not over 150° C., and a swelling action on vulcanized rubber of at least 1.0% when tested for 96 hours at 70° F. by the standard ASTM method, whereby said amine is transported by diffusion through the rubber into contact with the cellulose fiber reinforcement of said tire thereby protecting said cellulose fiber reinforcement against heat aging.



2,665,231
COATING PROCESS WITH ALKALI METAL PHOSPHATE AND ADDED FLUORIDE SALT

Paul Leslie Amundsen and Walter A. Osip, Detroit, Mich., assignors, by mesne assignments, to Parker Rust Proof Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application June 17, 1949, Serial No. 99,884
4 Claims. (Cl. 148—6.15)

2. In a method for coating metal surfaces, such as iron, steel, zinc and alloys thereof, the novel step of subjecting the metal to the action of an aqueous coating solution which essentially consists of an alkali metal phosphate, and an activator comprising alkali fluorides and alkali acid fluorides, until a suitable coating is formed thereon, the concentration of the alkali fluoride and alkali acid fluoride being balanced to maintain the pH of the solution between 3.0 and 5.8, the concentration of the phosphates in the solution being between 15 and 95 percent by weight of the total chemical in solution.

2,665,232
METHOD AND SOLUTION FOR TREATING ZINC SURFACES TO INHIBIT FORMATION OF WHITE RUST

Richard A. Neish, Library, Pa., assignor to United States Steel Corporation, a corporation of New Jersey

No Drawing. Application December 18, 1950, Serial No. 201,477
5 Claims. (Cl. 148—6.20)

1. In a method of retarding the formation of white rust on zinc surfaces, the steps including applying to the surfaces a dilute aqueous solution of an alkali-metal salt of chromic acid and sodium silicate, and drying the applied solution to form a microscopic film on said surfaces.

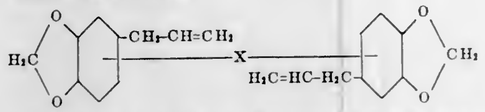
4. A solution for the treatment of zinc-surfaced articles to retard the formation of white rust thereon consisting essentially of from 10 to 40 ml. of about 40° Bé. waterglass per liter of solution, from .1 to 1% of an alkali-metal salt of chromic acid and the balance water.

2,665,233
INSECTICIDES AND INSECTICIDAL COMPOSITIONS

Oscar F. Hedenburg, Pittsburgh, Pa., assignor, by mesne assignments, to Rex Research Corporation, Toledo, Ohio, a corporation of Delaware

No Drawing. Application September 5, 1951, Serial No. 245,261
12 Claims. (Cl. 167—33)

5. An organic chemical compound having the structural formula



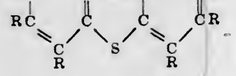
in which X is a radical selected from the group consisting of CH_2 and $CH_2—O—CH_2—O—CH_2$.

2,665,234
DIBENZOTHIOPHENES AS FUNGICIDES

Lyle D. Goodhue, Bartlesville, Okla., and Carolyn E. Tissol, St. Paul, Minn., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application July 26, 1951, Serial No. 238,785
12 Claims. (Cl. 167—38)

1. A method for the control of fungus which comprises applying to the fungus a composition containing as its sole essential fungicidal ingredient a compound represented by the general formula



wherein the R's are selected from the group consisting of hydrogen alkyl, halo, nitro, and amino groups; the R's can be different and when the R's are alkyl groups they shall contain not to exceed three carbon atoms.

2,665,235
CALCIUM LACTATE SUPPOSITORY

Richard Fleischmann, Gronau, Hannover, Germany, assignor to Johann A. Wülfing, Gronau, Hannover, Germany, a firm

No Drawing. Application May 29, 1951, Serial No. 228,998
Claims priority, application Germany June 1, 1950
3 Claims. (Cl. 167—64)

3. A calcium containing suppository comprising as the essential ingredient a finely-divided calcium salt containing about ½ mole water of hydration selected from the class consisting of calcium lactate and calcium sodium lactate homogeneously dispersed in a suppository matrix.

2,665,236
IMPREGNATED SALT TABLET

Horace W. Diamond, Chicago, Ill., assignor to Morton Salt Company, Chicago, Ill., a corporation of Illinois

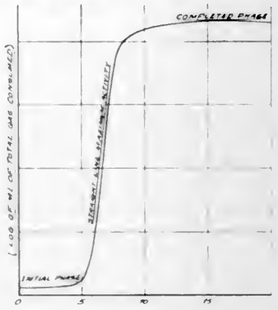
No Drawing. Application November 28, 1950, Serial No. 198,037
1 Claim. (Cl. 167—82)

As a new article of manufacture, a non-friable, internally reinforced tablet comprising substantially 10 grains of refined granular sodium chloride tableted under formation pressures of from 5–10 tons per square inch, and an internally disposed cellular structure comprising substantially 8–28 milligrams of refined paraffin, impregnated between and around the grains of the tableted sodium chloride while in a molten state, said internal cellular structure permitting the osmotic dissolution of said sodium chloride therethrough in the presence of human gastro-intestinal juices at a rate substantially less than the normal rate of dissolution of sodium chloride in such juices.

2,665,237
PROSPECTING

Raymond J. Strawinski, Long Beach, Calif., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware

Application May 8, 1950, Serial No. 160,634
6 Claims. (Cl. 195—103.5)



1. A method for prospecting for subterranean petroleum deposits characterized by the discharge of a hydrocarbon gas in the earth surface comprising the steps of collecting soil samples in the area being prospected, contacting aliquots of said soil samples under incubating conditions with a gas mixture comprising a gaseous aliphatic hydrocarbon and oxygen, said gas mixture being capable of utilization by hydrocarbon-consuming microorganisms whose presence is indicative of sub-surface petroleum deposits, effecting said contact in the presence of a substantial amount of added inorganic salt nutrient medium, said medium being selected so as to encourage optimum growth of said hydrocarbon-consuming microorganisms and employed in an amount sufficient to eliminate variables of moisture and nutrient content of said soil samples and to maintain the pH of said incubating mixture at a level conducive to optimum growth of said hydrocarbon-consuming microorganisms, determining the relative rates of hydrocarbon gas consumption in said gas mixture by said soil samples under said growth conditions and correlating said rates with the area being prospected.

2,665,238
RECOVERY OF OIL FROM SHALE

James K. Truitt, Wappingers Falls, and George B. Arnold, Glenham, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

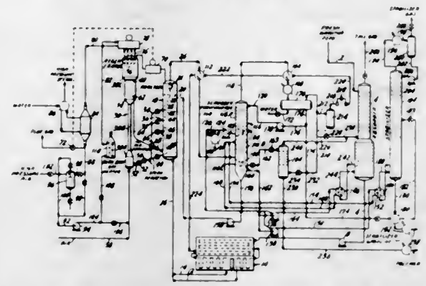
No Drawing. Application July 12, 1951, Serial No. 236,478
2 Claims. (Cl. 196—14)

1. The method of recovering oil from oil shale containing kerogen that comprises charging to a retort feed materials consisting of the shale and water in large amount approximating the weight of the shale and subjecting the material in the retort to a temperature in excess of 500° F. under a pressure in excess of 1000 lbs. per square inch to thereby effect the decomposition of the kerogen and resultant formation of oil.

2,665,239
REFINING CATALYST LADEN HYDROCARBONS

Everett W. Howard, Glen Rock, and John B. Osborne, South Orange, N. J., and Henry P. Wickham, Upper Brookville, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application November 30, 1950, Serial No. 198,376
4 Claims. (Cl. 196—52)



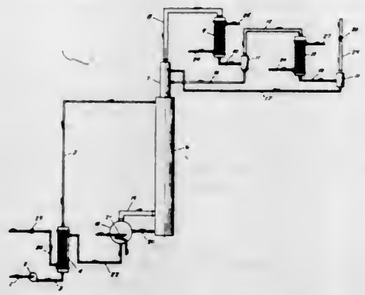
1. The refining of the products of a contact process for the conversion of hydrocarbons wherein a gasiform hydrocarbon material is contacted with a mass of finely divided solids in a reaction zone and the reaction products thus produced are separated substantially from said mass of solids and thereafter contain a small amount of entrained solid fines relative to the quantity of solids present in the reaction zone, the improvement which comprises cooling the hot gasiform reaction product and entrained solid fines to condense a major portion of high boiling normally liquid products, scrubbing the solid fines out of uncondensed gasiform products to form a slurry, settling said slurry, decanting a substantially solids-free portion of the high boiling condensate from the settled slurry, cooling the uncondensed gasiform products sufficiently to condense a major portion of relatively lower boiling normally liquid products therefrom thus leaving uncondensed normally gaseous products, stripping lower boiling normally liquid products from the decanted high boiling condensate by reducing the pressure and by contacting the same with a portion of normally gaseous products whereby the latter products are enriched, and contacting the enriched normally gaseous products and another portion of the normally gaseous products with the liquid hydrocarbon feed material for the conversion process to absorb therefrom relatively lower boiling normally liquid products by absorption.

2,665,240
METHOD OF OBTAINING ANHYDROUS HYDROGEN CHLORIDE

Chester C. Brumbaugh, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

Application June 16, 1951, Serial No. 232,071
3 Claims. (Cl. 202—51)

1. A method of producing anhydrous HCl which includes the steps of subjecting an aqueous solution of HCl containing at least 20% of HCl, by weight, to a pressure within the range of 15–250 p. s. i. gauge, heating said solution to the boiling point thereof at the pressure prevailing in the system to vaporize a mixture of HCl and water from said solution, cooling the vaporized mixture to a temperature substantially within

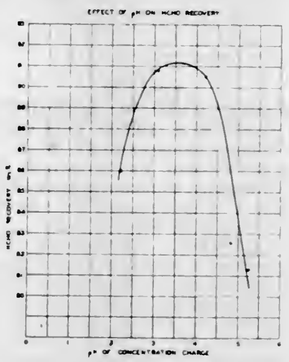


the range of 0°–15° F., at the prevailing pressure to form a strong aqueous HCl solution and a vapor phase containing HCl, separating said solution and said vapor phase, maintaining said pressure upon the system throughout said steps, and recovering said vapor phase, as said anhydrous HCl, under said pressure.

2,665,241
CONCENTRATION OF AQUEOUS FORMALDEHYDE SOLUTIONS

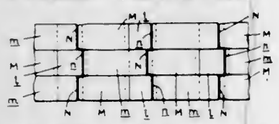
Louis G. Willke, Barnsdall, and Ignace L. Maim, Tallant, Okla., and Howard L. Malakoff, Yonkers, N. Y., assignors to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware

Application June 3, 1948, Serial No. 30,893
2 Claims. (Cl. 202—57)



1. The process of concentrating aqueous formaldehyde solutions at low subatmospheric pressures which comprises charging an aqueous formaldehyde stock having a pH less than about 3 to a concentrating zone, adjusting the pH value of the charging stock to a value of about 3.4, subjecting the charging stock to a low subatmospheric pressure, heating the charging stock to vaporize a portion thereof, recovering as an overhead product an aqueous solution relatively poor in formaldehyde, and recovering as a bottoms product as aqueous formaldehyde solution richer in formaldehyde than the charging stock.

2,665,242
COKE OVEN HEATING WALLS
Carl Otto, Manhasset, N. Y.
Application November 9, 1949, Serial No. 126,338
5 Claims. (Cl. 202—268)



1. In a coke oven battery of the known type having transverse, horizontally elongated coking chambers and heating walls between the coking chambers, each heating wall including vertical flue spaces, and being formed of superposed courses of bricks made of refractory material having a relatively high coefficient of thermal expansion and arranged to form transverse, vertically extending, flue walls and coking chamber side walls, and in which each flue space is separated from an adjacent coking chamber by a vertical side wall section comprising superposed courses of liner bricks with the bricks in each two adjacent superposed courses longitudinally disposed so that at each vertical edge of said section the end of one brick in each two adjacent courses projects beyond the corresponding end of the brick in the other course to thereby form horizontal tenons, and in which the bricks included in the adjacent portion of the heating wall are arranged to form socket spaces receiving the tenons of the adjacent vertical edge of said section; the improvement in which the portions of the bricks forming the horizontal tenons at one of the two sides of each section and the bricks in the adjacent portion of the heating walls which overlap the last mentioned tenons are shaped and arranged to form sections of a vertical expansion joint between said one side edge and the adjacent wall portion with each pair of overlapping tenons and socket brick surfaces at said one side of the section separated by a narrow, horizontally extending space which diminishes in vertical extent as the distance from the end of the tenon increases, whereby the frictional resistance to the opening of said vertical expansion joint is relatively small.

2,665,243
METHOD OF PROVIDING ALUMINUM WITH A FLEXIBLE OXIDE COATING
Gerald W. Young, Schenectady, N. Y., and John L. Hain, Bethlehem, Pa., assignors to General Electric Company, a corporation of New York
No Drawing. Application February 15, 1952, Serial No. 271,848
5 Claims. (Cl. 204—35)

1. The method of providing an aluminum surface with a flexible oxide coating which comprises anodically oxidizing the surface in a dilute aqueous solution of oxalic acid and thereafter immersing the oxide-coated surface in a flexing bath consisting of an aqueous solution of oxalic acid at a temperature of from about 80° C. to 95° C.

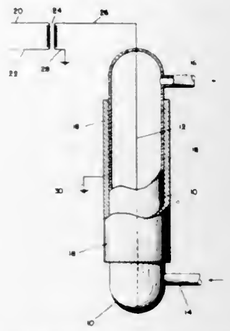
2,665,244
REFINING ALUMINUM ELECTROLYTICALLY
Charles Daniel Ménégoz, Saint-Jean-de-Maurienne, France, assignor to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques, a corporation of France
No Drawing. Application June 12, 1950, Serial No. 167,695
3 Claims. (Cl. 204—67)

2. A method for the refining of aluminum electrolytically by floating molten refined aluminum for use as a cathode on an electrolytic bath which in turn floats on a molten alloy of unrefined aluminum and a heavy metal for use as an anode, said bath comprising from 37 to 47 per cent by weight of barium chloride, from 18 to 28 per cent by weight of calcium fluoride, the total amount of the three salts making up approximately 95 per cent by weight of the bath, from 25 to 35 per cent by weight of aluminum fluoride, and containing no more than 1 per cent of alkali metal compounds, said fluorides and chlorides being selected in such proportion that the bath will float on the anodic layer but not float on the cathodic layer of a refining apparatus of the type described.

2,665,245
PHOTOCHEMICAL PRODUCTION OF 7-CHLOROCHOLESTERYL ESTER
Hermann Schaltegger, Flamatt, Switzerland, assignor to Dr. A. Wander A. G., Bern, Switzerland
No Drawing. Application September 8, 1949, Serial No. 114,692
Claims priority, application Switzerland October 6, 1948
4 Claims. (Cl. 204—158)

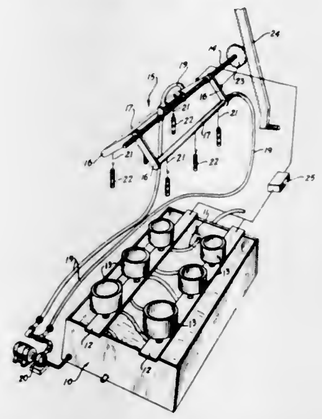
1. A photochemical process for the production of a 7-chlorocholesteryl ester, comprising the steps of dissolving cholesteryl ester in an inert solvent, reacting said ester with an alkyl hypochlorite selected from the group consisting of amyl hypochlorite and butyl hypochlorite under the influence of ultraviolet light, and isolating the 7-chlorocholesteryl ester produced.

2,665,246
ELECTROSTATIC SLUDGE PRECIPITATION
John R. Bates, Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application March 10, 1950, Serial No. 148,940
6 Claims. (Cl. 204—184)



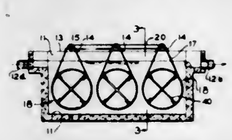
1. Method of treating hydrocarbons containing deleterious materials precipitable by contact with BF_3 which comprises contacting hydrocarbons containing said deleterious materials with BF_3 as the sole treating agent to form a finely divided sludge containing said deleterious materials, and subjecting said hydrocarbons admixed with the BF_3 formed sludge in the liquid phase at a sludge-removing temperature of from 0° C. to 60° C. to contact with an electrode providing a convergent electrostatic field having a potential gradient of at least 5,000 volts per centimeter whereby the BF_3 formed sludge deposits on said electrode, and recovering hydrocarbons free from the BF_3 formed sludge.

2,665,247
APPARATUS FOR ELECTROPOLISHING METALS
John F. Jumer, Chicago, Ill.
Application December 4, 1950, Serial No. 199,061
3 Claims. (Cl. 204—225)



1. Apparatus for electro-polishing the interiors of metal containers comprising a reservoir, a pair of spaced parallel conductive means extending over the reservoir between the edges thereof, each adapted to support a row of containers to be polished, a support above the reservoir, spaced yokes journaled on the support on an axis parallel to said conductive means, spaced metal pipes parallel to said conductive means extending between said yokes and each provided with a plurality of openings, each opening being above one of the containers, metal electrodes depending from the pipes for immersion in the containers, said yokes and pipes being disposed and arranged for rocking movement on said support for first raising the electrodes on one of the pipes above one of said rows of containers and then lowering the electrodes on the other pipe into the other row of containers, means for forcing electrolyte from the openings in one of the pipes into the corresponding row of containers, and means for passing a direct current between the electrodes and said containers.

2,665,248
FLOCCULATION MECHANISM
Ralph B. Carter, Jr., Maywood, N. J., assignor to Ralph B. Carter Company, Hackensack, N. J., a corporation of New York
Application November 8, 1951, Serial No. 255,402
5 Claims. (Cl. 210—2)

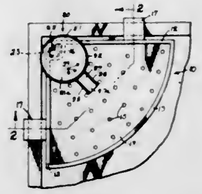


1. In a flocculating apparatus, having a tank or basin having an influent section located at one end thereof and an effluent outflow section located at the opposite end portion thereof and through which tank the liquid flows along a longitudinally extending path from the influent section to the outflow section; the combination of agitating means within said tank provided by a rotatable paddle reel of spaced rings with radial spokes, said spokes carrying relatively horizontal paddles suspended in the liquid, transverse to the flow of said liquid, a flexible, movable endless supporting means of the rings of said reel, said rings being seated in said means, and supporting means for the first named supporting means, and means moving the ring supporting means, whereby on the movement of said ring supporting means, the reel is rotated on its axis, moving the paddles through the liquid.

2,665,249
WASTE DISPOSAL
Frederick J. Zimmermann, Wausau, Wis., assignor to Sterling Drug Inc., New York, N. Y., a corporation of New York
No Drawing. Application March 27, 1950, Serial No. 152,264
9 Claims. (Cl. 210—2)

1. The method which includes: introducing a gas containing free oxygen and a liquid aqueous carbonaceous waste liquor, in a ratio of at least about one molecule of oxygen in said gas per atom of carbon in said liquor, into a reaction zone maintained under the vapor pressure of the reaction mixture at a temperature between at least 450 degrees Fahrenheit and the critical temperature of water.

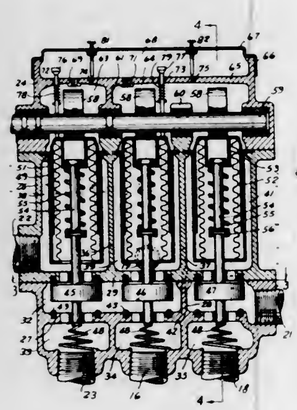
2,665,250
FILTER STEM FOR USE WITH THE FILTER OF AN AQUARIUM
Harding Warren Willinger and Herbert Nathaniel Nestler, New York, N. Y.
Application October 12, 1950, Serial No. 189,696
4 Claims. (Cl. 210—16)



2. In combination, a filter comprising a hollow casing for support within an aquarium containing water to be filtered, said casing having adjacent angularly disposed vertical walls and a vertical passageway at the junction of the side walls, and a filter stem comprising a tube extended through said passageway and of a length to have its bottom end portion extended below the bottom of said filter into the water of the aquarium to be filtered and its top end portion extended from the top end of said passageway, a hollow body having top and bottom walls mounted on the projecting top end portion of said tube with said top end portion extended through said bottom wall, means for raising water within said tube to spill from the top end portion of said tube into said hollow body, a discharge stem extended laterally from the side of said body at a level between said top and bottom walls of said body so that the water within said body can flow by gravity through said stem into the filter, said body resting with its bottom wall engaging the top edges of angularly disposed

vertical walls, and means extended downward from the bottom wall of said body on opposite sides of the axis of said discharge stem forming abutments for engaging the inner faces of said angularly disposed vertical walls retaining the filter stem from being turned to a position relative to said filter in which said discharge stem would spill the water outside of said hollow casing.

2,665,251
WATER SOFTENER
Alfred Mendenhall, Dayton, Ohio
Application September 13, 1949, Serial No. 115,324
5 Claims. (Cl. 210—24)



1. A water softening system including a tank containing a mineral bed, a salt pot in the top of said tank, a check valve in the bottom of said salt pot closing in a direction opposed to the direction of flow out of said salt pot into the tank, water connections at the top and at the bottom of said tank and at the top of said salt pot, a water flow valve control device operable to initiate the successive regenerating steps of backwashing, brine flow and rinsing, the direction of backwashing flow being in the water connection at the bottom of the tank, upward in the tank and out the connection at the top of the tank, a flow passage leading from within said salt pot to the water connection at the top of the tank, and a jet device in said water connection at the top of the tank so arranged with respect to the adjacent end of said flow passage to induce an evacuation of water from said salt pot during the backwashing step.

3. A valve device for use in connection with water softening apparatus, including a body presenting a hydraulic reservoir, a plurality of chambers in said body, check valve controlled passages between said reservoir and said chambers, means including an expansible bellows partitioning each of said chambers into an upper compartment to receive fluid from said reservoir and a lower compartment sealed by said means from said upper compartment, a water flow control valve beneath each of said expansible bellows and having a stem extending through said lower compartment into cooperative relation with the end of said bellows, said body having passages controlled by said central valves, a spring urging each of said control valves into cooperative relation with its associated bellows, a rotatable shaft extending transversely through said chambers, cams on said shaft overlying the ends of said bellows and constructed and arranged to depress said bellows and to move out of cooperative relation therewith in response to rotation of said shaft in opposite directions, depression of said bellows serving to shift said control valves and further serving to draw hydraulic fluid through said check valves into said upper compartments from said reservoir, such fluid being trapped in said upper compartment for holding said bellows in depressed position when said cams are withdrawn, escape ports for the fluid from said chambers back to said reservoir, and individual means for regulating the rate of flow through said escape ports to predetermine the time delay in the return of said bellows and said control valves from depressed or shifted position.

2,665,252
LUBRICANTS
Carl F. Prutton, Cleveland Heights, Ohio, assignor to The Lubrizol Corporation, Wickliffe, Ohio, a corporation of Ohio
No Drawing. Application September 25, 1948, Serial No. 51,306
10 Claims. (Cl. 252—33)

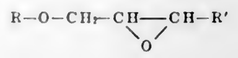
1. A lubricating composition comprising a major amount of an oil of lubricating viscosity and about 0.5 to 10% of a metal salt of paraffin wax-substituted diphenyl oxide sulphonic acid sulphide.

2,665,253
MINERAL OIL CONTAINING 1,2-DIALKOXY BENZENE AS AN OXIDATION INHIBITOR
William C. Hollibaugh, Springfield, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
No Drawing. Application June 23, 1950, Serial No. 170,021
6 Claims. (Cl. 252—52)

1. A composition comprising: a major proportion of mineral lubricating oil suitable for use under severe temperature conditions; and a minor proportion constituting an oxidation-inhibiting quantity of a 1,2-dialkoxy benzene wherein the alkoxy groups contain 1–9 carbon atoms.

2,665,254
OXIDATION INHIBITED MINERAL OIL
Walter J. Coppock, Ridley Park, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
No Drawing. Application June 23, 1950, Serial No. 170,059
6 Claims. (Cl. 252—52)

1. A lubricating composition comprising: a major proportion of mineral lubricating oil suitable for use under severe temperature conditions; and a minor proportion constituting an oxidation inhibiting quantity of a compound having the formula



where R is an aryl radical and R′ is selected from the group consisting of hydrogen and methyl and ethyl radicals.

2,665,255

WITHDRAWN

2,665,256
SOLID COMPOSITIONS CONTAINING POLYOXYETHYLENE ETHERS AND UREA
George E. Barker, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 23, 1948, Serial No. 4,082
18 Claims. (Cl. 252—152)

1. A composition consisting essentially of the solid concretion product of urea and at least one normally liquid to soft waxy polyoxyethylene ether selected from the group consisting of: (*a*) polyoxyethylene ethers of hydroxylic esters of 12 to 15 carbon atom carboxylic acids and polyhydric compounds with from 3 to 6 carbon atoms, of which at least 3 are in an uninterrupted chain, wherein the ethers contain at least 10 oxyethylene groups per acid radical; (*b*) polyoxyethylene ethers of hydroxylic esters of 16 to 30 carbon atom carboxylic acids and hydroxylic compounds with from 3 to 6 carbon atoms, of which at least 3 are in an uninterrupted chain, wherein the ethers contain at least 6 oxyethylene groups per acid radical; (*c*) esters of 12 to 30 carbon atom aliphatic carboxylic acids and hydroxy polyoxyethylene ethers of 1 to 10 carbon atom aliphatic alcohols, other than ethylene glycol, wherein the esters contain at least 7 oxyethylene groups per acid radical; said solid concretion product containing at least 10 per cent by weight of said polyoxyethylene ether.

2,665,257
LEAK DETECTOR COMPOSITION FOR GASEOUS FLUID CONDUITS AND THE LIKE
Thomas W. Potter, Mattoon, Ill.
No Drawing. Application December 19, 1950, Serial No. 201,697
3 Claims. (Cl. 252—307)

1. In a composition of matter for mixture with water to produce a bubble-forming liquid, the combination of approximately 25 to 45 parts dodecyl benzene, sodium sulfonate, 20 to 40 parts of a mixture comprising 85% lauryl sodium sulfate and 15% of a compound adapted to promote the free flowing characteristics of the alkyl sulfonate in a substantially dry state selected from the group consisting of sodium benzoate and magnesium carbonate, 10 to 30 parts defatted high protein vegetable flour, 1 to 9 parts of a compound selected from the group consisting of sodium carboxymethylcellulose and methyl cellulose ethers, and 5 to 15 parts of sodium sulfite to make a total of 100 parts by weight.

2,665,258
BEAD FORMING PROCESS
Edward H. Lebeis, Jr., Media, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application September 29, 1950, Serial No. 187,500
7 Claims. (Cl. 252—448)

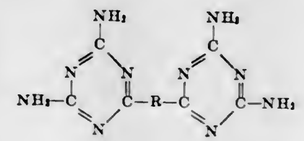
1. The method of preparing inorganic gel beads which comprises admixing powdered gel derived from the process with reactants producing a gelable hydrosol, discharging the thus produced powder-containing hydrosol into a body of water-immiscible liquid wherein as a result of interfacial tension the hydrosol is divided into globules which set to hydrogel in said immiscible liquid, classifying the hydrogel globules thus produced to separate those of selected size range and rejecting offsize globules, drying the offsize globules at a rate sufficiently rapid to form a frangible easily comminuted structure and grinding the same to powder of desired size range to provide the aforesaid powdered gel initially admixed with reactants, recycling said powder for admixing with said gelable hydrosol-producing reactants, partially drying said globules of selected size range to reduce the volume thereof and to a residual moisture content permitting rewetting without substantial breakage, treating the partially dried globules with aqueous liquid to purify the same, and carefully drying the purified globules under conditions including controlled humidity to obtain beads of good physical strength.

2,665,259
ABSORBENT AND PROCESS FOR PREPARATION THEREOF
John B. Buffett, Media, Pa., assignor to Attapulgus Minerals and Chemicals Corporation, Philadelphia, Pa., a corporation of Maryland
No Drawing. Application March 18, 1953, Serial No. 343,250
16 Claims. (Cl. 252—449)

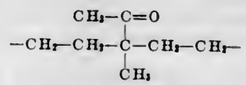
11. A process for producing an improved absorbent composition comprising mixing a major proportion of attapulgite clay, which has not been dried to a V. M. content below 10%, with a minor proportion, sufficient to increase the absorptivity of said clay, of a cementitious material which will yield a basic water extract and selected from the group consisting of an alkaline earth metal silicate, oxide, and hydroxide, in the presence of sufficient water to produce a mixture having a V. M. content of at least 60%, and drying said mixture to a V. M. content of not more than 40%.

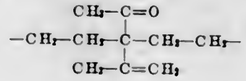
2,665,260
PREPARATION OF INFUSIBLE RESINS OF SUPERIOR TOUGHNESS AND FLEXIBILITY FROM A KETODIGUANAMINE AND FORMALDEHYDE
John Kenson Simons, Toledo, Ohio, assignor, by mesne assignments, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
No Drawing. Original application June 8, 1946, Serial No. 675,439. Divided and this application November 5, 1951, Serial No. 254,975
6 Claims. (Cl. 260—17.3)

4. A thermosetting intermediate reaction product of formaldehyde with a substance having the general formula



wherein —R— is a pentamethylene radical of the class consisting of (*a*) and (*b*), having the following structural formulas:

(*a*)


(*b*)


2,665,261

PRODUCTION OF ARTICLES OF HIGH IMPACT STRENGTH

Theodore C. Baker, Toledo, Ohio, assignor, by mesne assignments, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application May 12, 1950, Serial No. 161,741

12 Claims. (Cl. 260—17.3)

1. A molding composition comprising (A), as a filler, cellulose fibers and (B), as a binder impregnating the filler, a polar thermosetting material of the class consisting of phenol-formaldehyde reaction products, unsaturated polyhydric alcohol-polycarboxylic acid polyesters, and reaction products of formaldehyde with a compound whose molecule has a plurality of NH_2 groups each connected to a carbon atom which in turn is connected by a double bond to an atom having an atomic weight from 14 to 16, in proportions of 0.5 to 2.0 mols of formaldehyde per NH_2 group; the cellulose fibers having bonded thereto from 2 to 10 per cent of their weight of octadecyloxymethyl pyridinium chloride for reducing the strength of the bond between the polar thermosetting material and the cellulose fibers, and the weight ratio of coated cellulose fibers to (B) being from 1:1 to 1:19.

2,665,262

COATING COMPOSITIONS FOR RECORDING MEDIA

Clifford J. Rolle, Tuckahoe, and William Van Kirk, Richmond Hill, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application August 4, 1950, Serial No. 177,772

5 Claims. (Cl. 260—31.2)

1. In a coating composition for recording media consisting of a film forming binder and a solvent mixture capable of dissolving the binder and consisting of a rapidly evaporating solvent for the binder and a non-solvent for the binder which evaporates at a substantially lower rate than the rapidly evaporating solvent, the said solvent mixture being so proportioned that, on drying, the said binder precipitates in form of discrete particles with air between them, the improvement of using as binder 10 to 15 parts of vinyl chloride-vinyl acetate copolymer having a molecular weight of about 10,000, dissolving the said binder in a solvent mixture consisting of 30 to 45 parts of a solvent for the binder which is highly volatile and 25 to 40 parts of a non-solvent for the binder which is less volatile than the solvent for the binder, adding 12 to 18 parts of a softener in which the said binder is substantially insoluble, and adding to 100 parts of the foregoing composition 10 to 15 parts of a finely divided inert solid material of low tinting strength.

2,665,263

PREPARATION OF IMPROVED POLYMERIZABLE UNSATURATED POLYESTER COMPOSITIONS AND POLYMERIZED MATERIAL THEREFROM

Arthur M. Howald, Perrysburg, Ohio, assignor, by mesne assignments, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application August 31, 1949, Serial No. 113,482

9 Claims. (Cl. 260—40)

1. A heat-hardenable composition comprising (1) a filler, (2), as a binder therefor, a polymerizable unsaturated alkyd resin whose molecule contains a plurality of polymerizably reactive $\Delta^{2,3}$-enedioyl groups, (3) a base formed of a metal of group II and (4) a catalyst of the class consisting of organic peroxides and organic ozonides, the total weight of (1) and (3) being from $\frac{2}{3}$ to 3 times the weight of (2), and the weight of (3) being from 2 to 20 per cent of the total weight of (1) and (3).

2,665,264

COMPOUNDING BUTYL RUBBER

Marvin C. Brooks, Packanack Lake, and Elbert C. Ladd, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 13, 1951, Serial No. 256,144

15 Claims. (Cl. 260—41.5)

1. A vulcanizate of a mixture of a rubbery isobutylene-diolefin copolymer and a filler selected from the group consisting of precipitated hydrated silica, precipitated hydrated calcium silicate and kaolin, said filler having been reacted with an unsaturated organohalosilane selected from the group consisting of cycloalkenylhalosilanes and cycloalkenylalkylhalosilanes the halogen content of which is selected from the group consisting of chlorine, bromine and iodine, with the concurrent liberation of the corresponding hydrogen halide.

2,665,265

SYNTHETIC RESIN COMPOSITIONS HAVING IMPROVED LIGHT STABILITY

Arthur Reginald Burgess, Welwyn Garden City, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application August 27, 1951, Serial No. 243,909

Claims priority, application Great Britain September 22, 1950

4 Claims. (Cl. 260—45.75)

1. A composition comprising a synthetic resin subject to degradation by light and an effective amount not in excess of 10% by weight of said resin of a chelate compound of a metal selected from the group consisting of copper and nickel with an aromatic compound selected from the group consisting of benzene azo-p-cresol and benzene azo-β-naphthol.

2,665,266

GLYCIDYL ETHERS OF CONDENSATION PRODUCTS OF CERTAIN AROMATIC HYDROXY COMPOUNDS WITH PHENOLS HAVING UNSATURATED HYDROCARBON SIDE CHAINS

David Wasserman, Irvington, N. J., assignor to The Harvel Corporation, a corporation of New Jersey

No Drawing. Application January 29, 1952, Serial No. 268,917

11 Claims. (Cl. 260—46)

1. A novel composition selected from the group consisting of monomeric and polymeric glycidyl ether of an organic reaction product, said organic reaction product produced by reacting, in the presence of a cationic condensing agent, (A) a phenol selected from the group consisting of hydroxybenzene, naphthol, anthranol, and their homologues with (B) a phenol having on its nucleus and unsaturated hydrocarbon substituent of 14 to 28 carbon atoms, said unsaturation due solely to ethylenic linkage.

2,665,267

COPOLYMERS OF 1-ACYLOXY-3-BUTEN-2-ONE

Joseph M. Wilkinson, Jr., Easton, and John P. Barker, Media, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 20, 1950, Serial No. 201,862

6 Claims. (Cl. 260—63)

1. A copolymer comprising 10 parts of 1-acyloxy-3-buten-2-one, in which the acyl group corresponds to that of a saturated monocarboxylic acid selected from the group consisting of acetic, propionic, butyric, isobutyric, valeric, capric, lauric, myristic, palmitic and stearic acids, and 1 to 100 parts of a polymerizable unsaturated compound selected from the group consisting of vinyl acetate, vinyl chloride, isobutyl vinyl ether, maleic anhydride, diethyl fumarate, acrylonitrile, and methyl methacrylate.

2,665,268

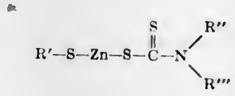
VULCANIZATION OF RUBBER

John Mann Butler, Centerville, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application April 26, 1952, Serial No. 284,643

15 Claims. (Cl. 260—79.5)

1. A process of curing a sulfur-vulcanizable rubber which comprises heating the rubber having incorporated therein a minor amount of a (tert-alkylmercapto)-zinc N,N-dialkyl dithiocarbamate accelerator having the formula:



wherein R′ represents a tert-alkyl radical containing up to 16 carbon atoms and R″ and R‴ represent an alkyl radical containing up to 8 carbon atoms.

2,665,269

EMULSION POLYMERIZATION OF VINYLIDENE COMPOUNDS IN THE PRESENCE OF TRISUBSTITUTED HYDROPEROXYMETHANES HAVING 10 TO 30 CARBON ATOMS

William B. Reynolds, John E. Wicklatz, and Thomas J. Kennedy, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application July 29, 1949, Serial No. 107,638

16 Claims. (Cl. 260—84.7)

1. In the production of synthetic rubber by the polymerization of a monomeric material comprising a major portion of 1,3-butadiene and a minor portion of styrene while dispersed in an aqueous emulsion in the presence of a catalyst composition at a polymerization temperature, the improvement which comprises conducting said polymerization with the pH of said aqueous emulsion between 9 and 12 and using as said catalyst composition 0.1 to 10 millimols of dimethyl-(tertiary - butylphenyl) - hydroperoxymethane together with 0.02 to 5 parts of tetraethylenepentamine, said amounts being per 100 parts by weight of said monomeric material.

2,665,270

PROCESS FOR PREPARING COPOLYMERS OF STYRENE AND DIVINYLBENZENE

Robert N. Haward and Joyce Elly, Trafford Park, Manchester, England, assignors to Petrocarbon Limited, London, England

No Drawing. Application December 10, 1951, Serial No. 260,948

Claims priority, application Great Britain December 21, 1950

7 Claims. (Cl. 260—88.1)

1. A process for the production of copolymers of styrene and divinylbenzene by a suspension polymerisation process, which comprises polymerising a mixture of styrene and divinylbenzene whilst it is maintained dispersed in an aqueous medium in which there are also dispersed finely divided particles of bentonite and in which there has been dissolved gelatin and a substantially neutral inorganic salt selected from the class consisting of the substantially neutral inorganic salts of alkali metals and alkaline earth metals.

2,665,271

POLYMERIZATION OF N-VINYL LACTAMS

Hans Beller, Cranford, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 25, 1951, Serial No. 253,211

3 Claims. (Cl. 260—88.3)

1. In the process of producing polymerization products of N-vinyl lactams wherein an N-vinyl lactam is mixed with a polymerization catalyst capable of supplying oxygen under the reaction conditions and selected from the class consisting of inorganic peroxides and organic peroxides and the thus obtained mixture is heated to effect polymerization; the method of reducing the residual monomer content of the thus obtained polymerization product when said polymerization product contains more than one per cent residual unsaturation, after the degree of unsaturation of the reaction mixture becomes constant; which comprises adding to the said reaction mixture after the degree of unsaturation thereof remains constant an additional amount of said catalyst and further heating said mixture to thereby polymerize the N-vinyl lactam still in said reaction product and thus reduce the amount of residual monomer therein.

2,665,272

EMULSION POLYMERIZATION AT LOW TEMPERATURES IN THE PRESENCE OF CERTAIN TRIALKYLHYDROPEROXY METHANES

William B. Reynolds, John E. Wicklatz, and Thomas J. Kennedy, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

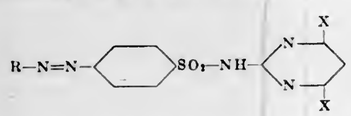
No Drawing. Application August 15, 1949, Serial No. 110,483

4 Claims. (Cl. 260—94.4)

1. In a process for producing a solid polymeric product by polymerizing a conjugated diolefin in aqueous emulsion with an alkyl mercaptan having from 8 to 16 carbon atoms as a modifier and in the presence of an organic hydroperoxide as an oxidizing constituent of a polymerization catalyst composition which also comprises a reductant, the improvement which comprises effecting said polymerization at a reaction temperature below 10° C. using 2,2,5-trimethyl-5-hydroperoxyhexane as said organic hydroperoxide.

2,665,273
AZO COMPOUNDS
George W. Mast, South Salem, and Leon E. Tenenbaum, Brooklyn, N. Y., assignors to Nepera Chemical Co., Inc., Yonkers, N. Y., a corporation of New York
No Drawing. Application July 19, 1952, Serial No. 299,922
7 Claims. (Cl. 260—154)

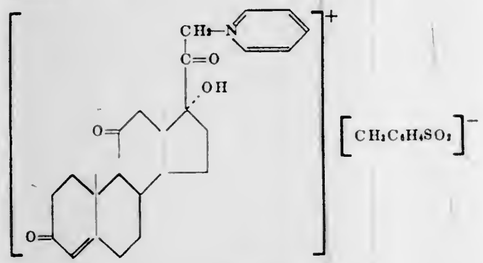
1. Azo compounds of the formula



wherein R is a hydroxy-substituted phenyl carboxylic acid and X is a member of the group consisting of hydrogen and methyl.

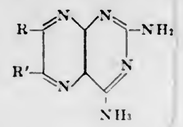
2,665,274
STEROID PYRIDINIUM SALTS
John P. Conbere, Plainfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application April 30, 1952, Serial No. 285,329
13 Claims. (Cl. 260—239.5)

1. Δ^4-17α-hydroxy-3,11,20-triketopregnenyl-21-pyridinium p-toluenesulfonate having the formula



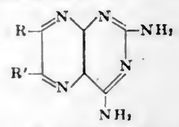
2,665,275
2,4-DIAMINO-7,8-DISUBSTITUTED PTERIDINES
Norman Robert Campbell, Hertford, Maurice Edward Hugh Fitzgerald, Shirley, Croydon, and Henry Oswald Jackson Collier, Hoddesdon, England, assignors to Allen & Hanburys Limited, London, England, a British company
No Drawing. Application October 17, 1950, Serial No. 190,656
Claims priority, application Great Britain December 22, 1948
8 Claims. (Cl. 260—251.5)

1. Pteridines of the general formula



where R is a radical selected from the group consisting of alkyl radicals containing from two to eight carbon atoms, the benzy radical, the anisyl radical and the cyclohexylmethyl radical and R' is a radical selected from the group consisting of alkyl radicals containing from two to eight carbon atoms, the benzyl radical, the anisyl radical and the cyclohexylmethyl radical.

7. A process for the manufacture of pteridines of the general formula



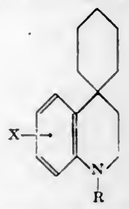
where R is a radical selected from the group consisting of alkyl radicals containing from two to eight carbon atoms, the benzyl radical, the anisyl radical and the cyclohexylmethyl radical R' is a radical selected from the group consisting of alkyl radicals containing from two to eight carbon atoms, the benzyl radical, the anisyl radical and the cyclohexylmethyl radical, which comprises condensing a compound selected from the group consisting of 2,4,5,6-tetraminopyrimidine and its acid salts with an α-diketone of the general formula



where R is a radical selected from the group consisting of alkyl radicals containing from two to eight carbon atoms, the benzyl radical, the anisyl radical and the cyclohexylmethyl radical and R' is a radical selected from the group consisting of alkyl radicals containing from two to eight carbon atoms, the benzyl radical, the anisyl radical and the cyclohexylmethyl radical.

2,665,276
SPIROCYCLOHEXYLQUINOLINES AND METHODS OF PREPARATION THEREOF
Louis H. Schwartzman, Pittsburgh, Pa., and Gilbert Forrest Woods, Jr., Silver Spring, Md.
No Drawing. Application July 9, 1952, Serial No. 298,194
6 Claims. (Cl. 260—283)

1. Spirocyclohexylhydroquinolines of the type:



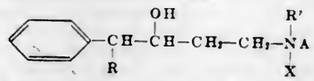
wherein R is selected from the group consisting of hydrogen, lower alkyl groups and lower acyl groups and X is selected from the group consisting of hydrogen, hydroxyl, alkoxyl groups, O-acyl groups, nitro and amino groups.

2,665,277
MONOBASIC MORPHINE PHOSPHATE HEMIHYDRATE AND PROCESS OF PREPARING SAME
August H. Homeyer, Webster Groves, George B. De La Mater, St. Louis County, and Andrew A. Cochran, Ferguson, Mo., assignors to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri
No Drawing. Application October 17, 1950, Serial No. 190,673
11 Claims. (Cl. 260—285)

1. Monobasic morphine phosphate hemihydrate.

2,665,278
GAMMA-HYDROXY QUATERNARY AMMONIUM COMPOUNDS
Everett M. Schultz, Glenolden, Pa., assignor to Merck & Co., Inc., a corporation of New Jersey
No Drawing. Application May 9, 1951, Serial No. 225,466
6 Claims. (Cl. 260—294.7)

1. Compounds of the formula



in which R is chosen from the group consisting of lower alkyl, unsubstituted mononuclear alicyclic, mononuclear aralkyl hydrocarbon and mononuclear aryl hydrocarbon radicals; R' is chosen from the group consisting of lower alkyl, mononuclear aralkyl hydrocarbon, allyl and cinnamyl, NA is chosen from the group consisting of a dilower alkyl amine and piperidine, and X is a non-toxic anion.

2,665,279
HETEROCYCLIC ANTITUBERCULOUS COMPOUNDS
John Alfred Aeschlimann, Montclair, and Arthur Stempel, River Edge, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application July 2, 1952, Serial No. 296,948
6 Claims. (Cl. 260—295)

1. A compound selected from the class consisting of 5-(4-pyridyl)-1,3,4-oxadiazol-2(3H)-one and 3-lower alkyl-5-(4-pyridyl)-1,3,4-oxadiazol-2(3H)-one.

5. 1-isonicotinyl-carbohydrazide.

6. A process of preparing isonicotinic acid hydrazide which comprises reacting 5-(4-pyridyl)-1,3,4-oxadiazol-2(3H)-one with a primary amine, at a reaction temperature above about 130° C.

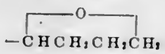
2,665,280
HALOGEN CLEAVAGE OF OZONIDES
James O. Knobloch, Hobart, and Joseph W. Sparks, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application December 26, 1951, Serial No. 263,516
12 Claims. (Cl. 260—340.6)

1. A method for cleaving an ozonide, which comprises contacting said ozonide with a reagent selected from the group consisting of fluorine chlorine, bromine, and substances affording fluorine, chlorine, and bromine under the conditions employed in said contacting, and separating an oxygen-containing organic derivative of said ozonide from the reaction product.

12. A method for preparing dibenzaldiperoxide which comprises contacting styrene ozonide with bromine, and separating dibenzaldiperoxide from the reaction product.

2,665,281
CHEMICAL COMPOUNDS AND PROCESSES OF PREPARING THE SAME
Martin Seidman, Chicago, Ill., and Karl Paul Link, Middleton, Wis., assignors to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin
No Drawing. Application March 1, 1951, Serial No. 213,485
3 Claims. (Cl. 260—343.2)

1. The product, 2-methyl-2-(OCH_2R'')-4-phenyl-5-oxodihydropyrano(3,2-c) (1) benzopyran, where R'' is an oxygen containing hydrocarbon radical selected from the group consisting of $—CH_2OCH_2CH_3$ and



2,665,282
TREATMENT OF WOOL GREASE
John P. Stanley, Amsterdam, N. Y., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a corporation of New York
No Drawing. Application March 22, 1950, Serial No. 151,322
7 Claims. (Cl. 260—406)

1. The method of treating lanolin or wool grease to improve the emulsification properties thereof which comprises subjecting the same to a limited and partial oxidation treatment with an aqueous acid chlorite oxidizing agent and continuing such oxidation treatment until there is an increase of from about 0.82% to 4.77% in the free acidity and to give an oxidized product which, after washing with water, forms emulsions on the addition of weak aqueous alkaline solutions.

2,665,283
COPOLYMERS
Daniel J. Carlick, Roselle, N. J., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application September 26, 1951, Serial No. 248,468
4 Claims. (Cl. 260—407)

1. A modified fatty drying oil soluble in aliphatic hydrocarbon solvents, comprising a copolymer formed in the presence of an organic oxygen yielding catalyst of from 35 to 75% of drying oil and from 65 to 25% of unsaturated hydrocarbons consisting of 1 part of isoprene to from 3 to 12 parts of styrene.

2,665,284
COPOLYMERS
Daniel J. Carlick, Roselle, N. J., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application September 26, 1951, Serial No. 248,469
5 Claims. (Cl. 260—407)

1. A modified drying oil soluble in aliphatic hydrocarbon solvents, comprising a copolymer formed in the presence of an organic oxygen yielding catalyst of from 35 to 75% of fatty drying oil and from 65 to 25% of unsaturated hydrocarbons consisting of 1 part of methyl 1,3 pentadiene to from 3 to 12 parts of styrene.

2,665,285
STABILIZATION OF DERIVATIVES OF DITHIOCARBAMIC ACIDS
Rayner S. Johnson, New Castle, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 6, 1951, Serial No. 235,563
7 Claims. (Cl. 260—429)

1. A process for preparing a stabilized derivative of a dithiocarbamic acid selected from the group consisting of a salt of a dialkyl dithiocarbamic acid and a salt of an alkylene bisdithiocarbamic acid, which comprises mixing said dithiocarbamic acid derivative with a minor amount of an inorganic sulfite.

2,665,286

PRODUCTION OF ORGANO-TIN COMPOUNDS

Herbert J. Passino, Englewood, N. J., and George G. Lauer, New York, N. Y., assignors, by mesne assignments, to Metal and Thermit Corporation, New York, N. Y., a corporation of New Jersey

No Drawing. Application December 20, 1949, Serial No. 134,115

12 Claims. (Cl. 260—429)

1. In the production of dibutyl tin dichloride from butyl chloride, stannic chloride, and metallic sodium, the improved process of making said dichloride in greater yield and with increased safety while avoiding loss of sodium which comprises: adding the metallic sodium in an extended form having increased surface area to a mixture preheated to a temperature in the range of about 100 to about 110° C. and comprising 3 to 4 mols of butyl chloride and 1 mol of stannic chloride, said butyl chloride being present in an amount in excess of the stoichiometric requirement, said sodium being added stepwise to the mixture in successive quantities each less than the stoichiometrical requirement and at a rate effective to aid in maintaining the temperature of the mixture within said range so as to prevent a too violent reaction, the total amount of sodium added being effective to convert the reactants to dibutyl tin dichloride as a product of the process, and recovering said dibutyl tin dichloride from the reaction mixture.

2,665,287

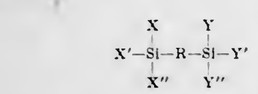
PRODUCTION OF CYCLIC ORGANOSILICON COMPOUNDS

David B. Hatcher, Evanston, Ill., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Original application August 9, 1948, Serial No. 43,353. Divided and this application April 1, 1952, Serial No. 279,947

5 Claims. (Cl. 260—448.2)

1. An organosilicon compound having the general formula



wherein each of the radicals X, X′, X″, Y, Y′ and Y″ is a radical of the class consisting of halo, alkoxy, amino, aroxy and acyloxy radicals and —R— is a divalent radical derived from octahydro-4,7-methanoindene by removal of two hydrogen atoms from positions of the class consisting of the 1,6; 1,5; 2,6 and 2,5 positions.

2,665,288

PROCESS OF PROMOTING CATALYTIC REACTIONS IN THE VAPOR PHASE

William W. Odell, New York, N. Y., assignor to Standard Oil Development Company

Application September 6, 1949, Serial No. 114,093

2 Claims. (Cl. 260—449.6)

1. The process of promoting chemical reactions in a gasiform fluid stream, in contact with solid surfaces, comprising passing said stream, initially containing at least one gasiform reactant adapted to react chemically at elevated temperatures, upwardly through a deep, pervious mass of a plurality of different kinds of solids in a granular state in predetermined proportions having considerably different buoyancies A and B in said stream, while they are so confined in a reaction chamber that the bottom zone of said mass has a small diameter, the top zone thereof has a relatively large diameter and the intermediate zone tapers downwardly and while they are at a favorable reaction temperature and under favorable pressure for said reactant to react chemically, at such a velocity that said solids are fluidized as a deep, dense, continuous bed in said chamber in said zones in stratified dense layers whereby said bottom zone is comprised largely of solids A of low buoyancy, said top zone is comprised largely of solids B of relatively high buoyancy and said intermediate zone is comprised of a mixture of solids A and B, thereby promoting chemical reaction of said reactant as said stream passes serially through the different zones with decreasing stream-mass velocity, and removing the gasiform reaction products in said stream from above said bed.

2,665,289

CATALYTIC SYNTHESIS OF HYDROCARBONS

John H. Arnold, Summit, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey

No Drawing. Application September 25, 1948, Serial No. 51,298

2 Claims. (Cl. 260—449.6)

1. In the synthesis of hydrocarbons, oxygenated hydrocarbons and mixtures thereof wherein a synthesis gas comprising a mixture of hydrogen and carbon monoxide is passed in contact with an iron-containing hydrocarbon synthesis catalyst under an elevated temperature of 550–700° F. and superatmospheric pressure at which the reactants are substantially converted into said desired products of reaction, the steps of improving the utilization of relatively hydrogen-poor, fresh feed synthesis gas containing said hydrogen and carbon monoxide in the relative molar proportions in the range between 0.4:1 and 0.9:1, which comprise continuously contacting said catalyst with a volume of said fresh feed synthesis gas in admixture with a greater volume of a recycle gas hereinbelow specified and in further admixture with a molar quantity of water vapor approximating one-half the difference between the molar percent of carbon monoxide and the molar percent of hydrogen in said fresh feed synthesis gas, withdrawing from contact with said catalyst a gaseous effluent of the products of reaction, and separating normally liquid products of reaction and carbon dioxide from said gaseous effluent to leave a gaseous residue which is utilized in part as said recycle gas.

2,665,290

SEPARATION OF OXYGENATED ORGANIC COMPOUNDS

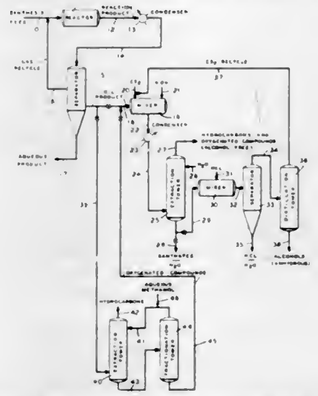
William E. Hanford, Short Hills, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application November 30, 1948, Serial No. 62,621

20 Claims. (Cl. 260—450)

1. A process for recovering alcohols present in an oil condensate product obtained from the condensation of the reaction effluent produced in the hydrogenation of oxides of carbon, which comprises: contacting said oil condensate product with carbon disulfide and an alkali to convert alcohols contained therein to their corresponding xanthates; contacting the resulting mixture with an aqueous solution of at least one solvent having a preferential solvent power for said xanthates

selected from the group consisting of an alcohol, ketone and a cyclic ether to produce an extract phase and a raffinate phase; separating said phases; contacting said extract phase with a



mineral acid to convert said xanthates to their corresponding alcohols and reform carbon disulfide; separating alcohols thus produced from said reformed carbon disulfide; and returning separated reformed carbon disulfide for further contact with more of said oil condensate product.

2,665,291

METAL XANTHATES OF THE HALOARYLOXYALKANOLS

Bryant Charles Fischback, Walnut Creek, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application June 29, 1951, Serial No. 234,449

10 Claims. (Cl. 260—455)

1. A metal xanthate of a haloaryloxy lower alkanol, wherein the metal is selected from the group consisting of aluminum, copper, zinc, and the alkali and alkaline earth metals and halogen is selected from the group consisting of bromine and chlorine.

2,665,292

METAL XANTHATES OF THE HALOARYL POLYALKYLENE GLYCOL MONOETHERS

Bryant Charles Fischback, Walnut Creek, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application October 11, 1951, Serial No. 250,943

13 Claims. (Cl. 260—455)

1. A metal xanthate of a member of the group consisting of the haloaryloxy-ethoxy-ethanols, haloaryloxy-ethoxy - ethoxy - ethanols, haloaryloxy-propoxy-propanols and haloaryloxy-propoxy-propoxy-propanols wherein the aryloxy radical is of the benzene series.

13. Potassium 4-chlorophenoxy-propoxy-propoxy-propylxanthate.

2,665,293

PREPARATION OF THE ETHYL ESTERS OF SULFONIC ACIDS

Carl E. Johnson, Griffith, and Arthur P. Lien, Highland, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application May 17, 1951, Serial No. 226,945

7 Claims. (Cl. 260—456)

2. A process of preparing ethyl esters of sulfonic acids comprising the steps of introducing ethylene into a reaction zone containing a sulfonic acid selected from the group consisting of aromatic and aliphatic sulfonic acids having at most about 8 carbon atoms per molecule, and admixing the same in a ratio between about 0.5 and 3.0 mols of ethylene per mol of sulfonic acid under a pressure between about 10 and 60 atmospheres and at a temperature between about —20° and 80° C., effecting reaction therebetween in the presence of from 0.01 mol to 0.5 mol of boron trifluoride per mol of sulfonic acid and recovering the ethyl ester of the said selected sulfonic acid from the reaction mixture.

2,665,294

THIOAMYL ESTER OF DIPHENYLDITHIOPHOSPHINIC ACID AND PROCESS THEREFOR

Gennady M. Kosolapoff, Auburn, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 12, 1952, Serial No. 276,230

2 Claims. (Cl. 260—461)

1. The thioamyl ester of diphenyldithiophosphinic acid.

2. The method of preparing the thioamyl ester of diphenyldithiophosphinic acid which comprises heating benzene with phosphorus trichloride, chlorinating the reaction product therefrom with elemental chlorine, thereafter esterifying with amyl mercaptan to obtain a mixture of the thioamyl ester of benzenedithiophosphonic acid and the thioamyl ester of diphenyldithiophosphinic acid, and distilling off the thioamyl ester of benzenedithiophosphonic acid to obtain the thioamyl ester of diphenyldithiophosphinic acid.

2,665,295

DIESTERS OF DITHIOPHOSPHORIC ACIDS AND TERPENES

Frederick B. Augustine, Jefferson, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Original application October 28, 1947, Serial No. 782,672. Divided and this application January 6, 1949, Serial No. 69,602

8 Claims. (Cl. 260—461)

1. A process of preparing reaction products that comprises reacting about one mol of a saturated diester of dithiophosphoric acid with about one mol of a terpene, at temperatures between about 100° C. to about 200° C.

2,665,296

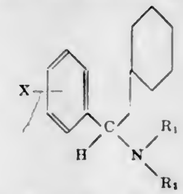
SPIROCYCLOHEXANES AND METHODS OF PREPARATION THEREOF

Gilbert Forrest Woods, Jr., and Louis H. Schwartzman, Silver Spring, Md.

No Drawing. Application November 24, 1951, Serial No. 258,091

6 Claims. (Cl. 260—465)

1. A compound represented by the formula



in which R_1 and R_2 are selected from the group

consisting of H- and lower alkyl-, and X represents a member of the group consisting of halogen-, HO-, NO_2- and CN-.

2,665,297
PROCESS OF PRODUCING ORGANIC UNSATURATED NITRILES
Peter Kurtz, Leverkusen-Bayerwerk, and Herbert Emil Eduard Schwarz, Leverkusen-Wiesdorf, Germany, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany, a corporation of Germany
No Drawing. Application October 24, 1950, Serial No. 191,919
Claims priority, application Germany October 28, 1949
4 Claims. (Cl. 260—465.7)

1. The process which comprises adding to 1-chloro-3-cyano-propene-(1) catalytic amounts of an alkali phenolate and heating the reaction mixture to a temperature not exceeding 150° C.

2,665,298
STABILIZED COMPOSITIONS COMPRISING MONOMERIC 1,1-DICYANO ETHYLENE
Alan E. Ardis, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application May 7, 1952, Serial No. 286,599
10 Claims. (Cl. 260—465.8)

1. A composition comprising crude unstable monomeric 1,1-dicyano ethylene and, as a stabilizer therefor, a compound of the structure



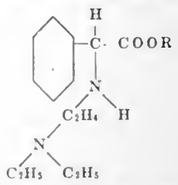
present in a concentration of about 0.001% to about 25.0% by weight, wherein R is a member of the class consisting of hydrocarbon radicals and halogen-substituted hydrocarbon radicals and X is a member of the class consisting of hydroxyl and halogen.

2,665,299
STABILIZED COMPOSITIONS COMPRISING MONOMERIC 1,1-DICYANO ETHYLENE
Alan E. Ardis, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application May 7, 1952, Serial No. 286,600
5 Claims. (Cl. 260—465.8)

1. A composition comprising crude unstable monomeric 1,1-dicyano ethylene and, as a stabilizer therefor, a dialkyl sulfate present in a concentration of about 0.001% to about 10.0% by weight.

2,665,300
METHOD FOR THE N-ALKYLATION OF PHENYLAMINOACETIC ACID ESTERS
Norbert Brock, Brackwede, Engelbert Kühas, Gadderbaum, and Martin Schmeisser, Munich, Germany, assignors to Asta-Werke Aktiengesellschaft, Chemische Fabrik, Brackwede, Westphalia, Germany
No Drawing. Application January 23, 1951, Serial No. 207,446
Claims priority, application Austria January 25, 1950
4 Claims. (Cl. 260—471)

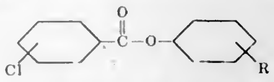
1. As a novel therapeutically useful compound, the isoamylester of alpha-(N'-diethylamino-ethyl-N-amino)-phenylacetic acid of the formula



wherein R stands for the isoamyl radical.

2,665,301
ARYL ESTERS OF CHLOROBENZOIC ACID
Ezra Monroe, Midland, and Clare Hand, Sanford, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application April 13, 1949, Serial No. 87,352
4 Claims. (Cl. 260—476)

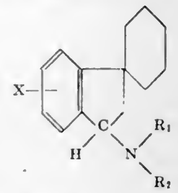
1. An aryl ester of a chlorobenzoic acid having the formula:



wherein R represents the lower alkyl radicals containing from 1 to 4 carbon atoms, inclusive.

2,665,302
SPIROCYCLOHEXANES AND METHODS OF PREPARATION THEREOF
Gilbert Forrest Woods, Jr., and Louis H. Schwartzman, Silver Spring, Md.
No Drawing. Application November 24, 1951, Serial No. 258,092
6 Claims. (Cl. 260—479)

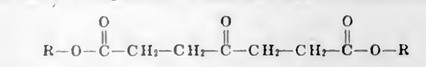
1. A compound represented by the formula



in which R_1 and R_2 are selected from the group consisting of H- and lower alkyl-, and X represents a member of the group consisting of lower alkyl-O, lower alkyl-COO, lower alkyl-CO, hydroxy lower alkyl, and lower fatty acid ester of a hydroxy lower alkyl.

2,665,303
ESTERS OF GAMMA-KETOPIMELIC ACID
Harry R. Gamrath, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 28, 1949, Serial No. 107,370
10 Claims. (Cl. 260—483)

1. As new chemical compounds, the esters of gamma-ketopimelic acid having the formula

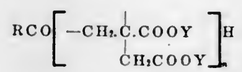


wherein R is selected from the group consisting

of alkyl radicals containing at least 4 and not more than 12 carbon atoms and beta-alkoxyethyl radicals wherein the alkyl substituent contains at least 1 and not more than 8 carbon atoms.

2,665,304
POLYCARBOXYLATES
Tracy M. Patrick, Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application September 25, 1950, Serial No. 186,678
13 Claims. (Cl. 260—483)

1. An adduct of at least one mole of an aldehyde with at least 2 moles of an itaconate, said adduct having the general formula



in which R is an alkyl radical of from 1 to 18 carbon atoms, Y is a hydrocarbon radical which is free of non-benzenoid unsaturation and which contains from 1 to 18 carbon atoms, and n is an integer of from 2 to 20.

2,665,305
TREATMENT OF SULFONYL CHLORIDES
Harry E. Cier, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application November 20, 1952, Serial No. 321,663
12 Claims. (Cl. 260—504)

1. A method for preventing degradation of a hydrocarbon sulfonyl chloride product containing dissolved sulfur dioxide, chlorine, and hydrogen chloride and which is susceptible to color degradation which comprises introducing said product into a pool of a light hydrocarbon boiling in the range between 95° and 210° F. and forming a mixture therewith, adjusting the temperature of the mixture to a temperature not in excess of the boiling point of the light hydrocarbon and vaporizing at least partially said light hydrocarbon and the dissolved sulfur dioxide, chlorine, and hydrogen chloride from said mixture.

2,665,306

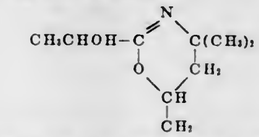
WITHDRAWN

2,665,307
TRICHLOROACRYLYL CHLORIDE
Jack S. Newcomer, Wilson, N. Y., assignor to Sharples Chemicals Inc., a corporation of Delaware
No Drawing. Application April 2, 1952, Serial No. 280,199
10 Claims. (Cl. 260—544)

1. A process for the preparation of trichloroacrylyl chloride which comprises reacting at elevated temperature hexachloropropene and oxide of iron, and recovering from the reaction mixture the trichloroacrylyl chloride thus produced.

2,665,308
PROCESS FOR MAKING N-(1,1-DIMETHYL-3-HYDROXYBUTYL)-LACTAMIDE
William P. Ratchford, Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of Agriculture
No Drawing. Original application March 23, 1951, Serial No. 217,281, now Patent No. 2,648,664, dated August 11, 1953. Divided and this application March 26, 1953, Serial No. 346,813
1 Claim. (Cl. 260—561)
(Granted under Title 35, U. S. Code (1952), sec. 266)

The process of producing N-(1,1-dimethyl-3-hydroxybutyl)-lactamide by reacting a compound having the formula:



with an equimolecular amount of water at room temperature.

2,665,309
SUBSTITUTED GLYCINAMIDES
William F. Bruce, Havertown, and Joseph Seifter, Willow Grove, Pa., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application January 4, 1951, Serial No. 204,488
4 Claims. (Cl. 260—562)

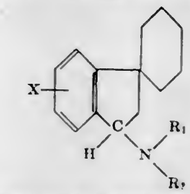
1. Substituted glycinamides having the formula

$$R'R''NCH_2CONR'''R''''$$

wherein R' and R''' represent lower alkyls having not more than 5 carbon atoms while R'' represents an alkyl of 5 to 9 carbon atoms and R'''' stands for a mono-nuclear aralkyl radical of the benzene series having an aryl radical attached to an alkyl chain of 1 to 4 carbon atoms.

2,665,310
SPIROCYCLOHEXANES AND METHODS OF PREPARATION THEREOF
Gilbert Forrest Woods, Jr., and Louis H. Schwartzman, Silver Spring, Md.
No Drawing. Application November 24, 1951, Serial No. 258,093
6 Claims. (Cl. 260—562)

1. A compound represented by the formula



in which R_1 and R_2 are selected from the group consisting of H- and lower alkyl-, and X represents a member of the group consisting of amino lower alkyl and



where each R represents a member of the group consisting of H, lower alkyl and lower alkyl-CO.

2,665,311
PREPARATION OF ACETYLENIC AMINES

Charles H. McKeever, Glenside, and Marian F. Fegley, Mont Clare, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application September 23, 1950, Serial No. 186,494
8 Claims. (Cl. 260—583)

1. A process for preparing an acetylenic amine having the formula

$$RNHCHC{\equiv}CH$$
$$\quad\quad|$$
$$\quad\quad R'$$

wherein R and R′ are alkyl groups of one to nine carbon atoms which comprises reacting acetylene with an aldimine having the formula RN=CHR′, wherein R and R′ are identical with the same characters above, under anhydrous conditions, under superatmospheric pressure, at a temperature from 0° to 100° C. and in the presence of cuprous chloride as a catalyst and thereafter separating said acetylenic amine.

2,665,312
STABILIZED POLYGLYCOL COMPOSITIONS

Edward O. Ohlmann, Bay City, and William S. Thurber, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

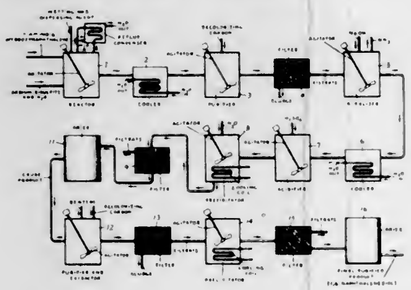
No Drawing. Application August 3, 1951, Serial No. 240,274
18 Claims. (Cl. 260—611.5)

7. A polyglycol corresponding to the general formula $H(OC_nH_{2n})_mOH$ wherein n is a small integer and m is an integer at least 2, stabilized against decomposition by a small proportion of a condensation product of a nuclearly hydroxylated aromatic hydrocarbon with a di-alpha-alkenyl aromatic hydrocarbon wherein each alkenyl group is attached to the aromatic nucleus.

2,665,313
PRODUCTION OF 1,6-NAPHTHALENEDIOL

George F. Lisk, Buffalo, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

Application October 2, 1951, Serial No. 249,418
7 Claims. (Cl. 260—621)



1. A process for the preparation of 1,6-naphthalenediol which comprises heating 1-amino-6-hydroxynaphthalene with an aqueous solution of a water-soluble, inorganic bisulfite and subjecting the reaction mixture to alkaline hydrolysis and subsequent acidification.

2,665,314
SELECTIVE CHLORINATION OF 2,5-DICHLOROPHENAL TO 2,4,5-TRICHLOROPHENOL IN THE PRESENCE OF 2,4-DICHLOROPHENAL

Karl W. Krantz, Niskayuna, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

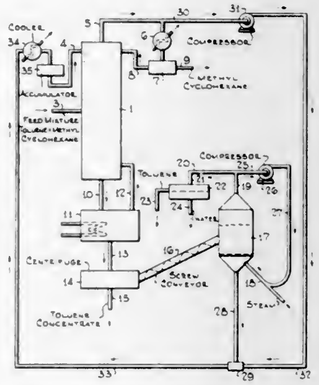
No Drawing. Application April 4, 1951, Serial No. 219,307
3 Claims. (Cl. 260—623)

1. In a process for selectively chlorinating 2,5-dichlorophenol to 2,4,5-trichlorophenol in the presence of 2,4-dichlorophenol to obtain a mixture of 2,4-dichlorophenol and 2,4,5-trichlorophenol, the steps comprising effecting chlorination by introducing chlorine into a mixture consisting essentially of molten 2,4-dichlorophenol and molten 2,5-dichlorophenol at a temperature of 40° C. to 60° C., and stopping the introduction of chlorine into the mixture before the total amount of chlorine reacted in said chlorination substantially exceeds one mol per mol of 2,5-dichlorophenol in said mixture of 2,4-dichlorophenol and 2,5-dichlorophenol.

2,665,315
ADSORPTIVE DISTILLATION

Walter A. Herbst, Union, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application March 19, 1951, Serial No. 216,293
7 Claims. (Cl. 260—666)

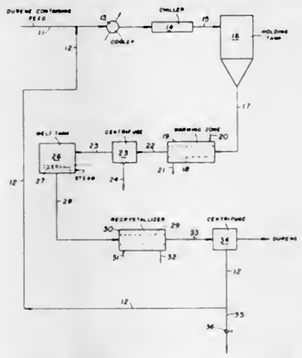


1. The method of separating hydrocarbons which form close-boiling mixtures difficult to separate by ordinary fractional distillation, which comprises continuously introducing a feed mixture of said hydrocarbons to a fractional distillation zone wherein vapors of said hydrocarbons ascend countercurrently to a slurry of a solid adsorbent in liquid reflux to effect vaporization of the hydrocarbon component rendered more volatile, continuously removing vapor of the more volatile hydrocarbon component overhead from the fractional distillation zone, and removing a slurry of the solid adsorbent in the less volatile hydrocarbon component as bottoms the weight ratio of said solid adsorbent in said distillation zone to said feed mixture being maintained above about 100%.

2,665,316
RECOVERY OF DURENE

Rufus B. Bennett, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application October 21, 1950, Serial No. 191,463
4 Claims. (Cl. 260—674)



1. A method for recovering durene from an aromatic hydrocarbon feed boiling in the range from 350° F. to 425° F. containing a minor amount of it which comprises chilling the feed to a temperature in the range from −95° F. to −105° F. over a period of time ranging from 4 to 10 hours to form a first slurry in a first mother liquor, maintaining said first slurry at said temperature for a period of time in the range from 4 to 10 hours, warming said first slurry for a time in the range between 15 and 60 minutes to a temperature in the range between −25° F. and −75° F., separating durene crystals from said warmed first slurry to form a first cake containing a substantially greater concentration of durene than said feed, heating and melting said first cake at a temperature in the range between 110° F. and 150° F., cooling said melted cake to a temperature in the range between 80° F. and 105° to form a second slurry of durene crystals in a second mother liquor, separating durene crystals from said second slurry to separate a second cake of durene crystals from said second mother liquor, and recovering substantially pure durene from said second cake.

2,665,317
METHOD OF TREATING RUBBER OBTAINED FROM RUBBER-BEARING PLANTS

Frederick E. Clark and Irvin C. Feustel, Salinas, Calif., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application November 14, 1951, Serial No. 256,356
4 Claims. (Cl. 260—818)
(Granted under Title 35, U. S. Code (1952), sec. 266)

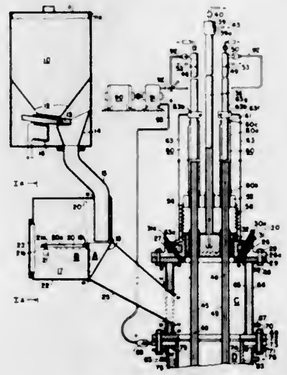
1. A process of preparing deresinated guayule rubber which comprises subjecting guayule to aqueous milling operations to form and purify the guayule rubber worms, at least one of the milling operations being in the presence of a water-insoluble metallic soap to coat the worms with the water-insoluble metallic soap, and extracting the coated worms with an organic solvent to deresinate the worms, the water-insoluble metallic soap-coating preventing agglomeration of the worms without interference with the penetration of solvent.

ELECTRICAL

2,665,318
ARC MELTING OF TITANIUM TO FORM INGOTS

Schuyler A. Herres, Albany, N. Y., assignor to Allegheny Ludlum Steel Corporation, Brackenridge, Pa., a corporation of Pennsylvania

Application July 21, 1950, Serial No. 175,091
14 Claims. (Cl. 13—14)



4. A furnace apparatus for melting down metal particles to form an ingot which comprises, a jacketed melting chamber, means for supplying current of one potential thereto, means for supplying metal particles in measured amounts to the chamber, electric arc-producing means of opposite potential operatively positioned to extend into said chamber, said arc-producing means having a turned-out tip pointing towards a side wall of said chamber to form an arc with and melt the metal particles supplied to said chamber, means for turning said tip about a top surface of the ingot, said tip being turned by turning said arc-producing means with respect to said chamber, and flexible tube means connected at its end portions with a positive fluid seal between said arc-producing means and said jacketed melting chamber to maintain a fluid seal therebetween when said arc-producing means is turned with respect to said chamber.

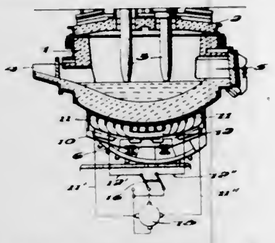
2,665,319
METALLURGICAL FURNACE HAVING A STIRRING WINDING

Ludwig Dreyfus, Vasteras, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden

Application May 9, 1950, Serial No. 160,861
Claims priority, application Sweden May 24, 1949
8 Claims. (Cl. 13—26)

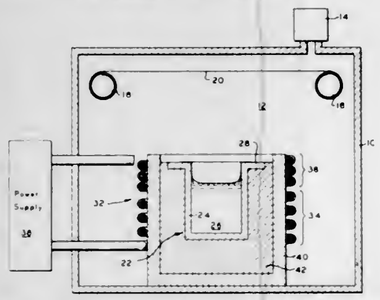
1. A metallurgical furnace comprising a normally stationary receptacle for a molten content, a polyphase winding mounted beneath and across the bottom of said receptacle and having its phases interlinked, means for feeding low fre-

quency current through said winding to induce electro-dynamical forces in said content, and



means for altering the direction of said forces relatively to said receptacle.

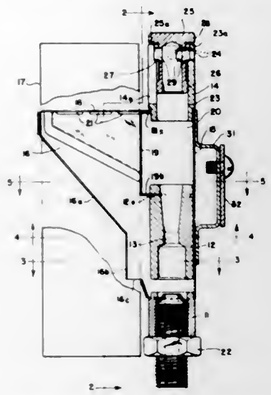
2,665,320
METAL VAPORIZING CRUCIBLE
Earl E. Chadsey, Jr., Newton, Philip J. Clough, Reading, and Philip Godley, 2nd, Lexington, Mass., assignors to National Research Corporation, Cambridge, Mass., a corporation of Massachusetts
Application September 22, 1949, Serial No. 117,124
4 Claims. (Cl. 13—27)



1. For use in an apparatus for the vapor deposition coating of a flexible substrate by moving the substrate past a source of metal vapors positioned in an evacuated coating chamber, a crucible for holding molten metal to be evaporated, said crucible comprising a material substantially inert to such molten metal and wettable by said molten metal, said crucible having a main body portion for holding said molten metal, lip means extending from said main body portion adjacent the upper edge thereof, and means for heating said crucible to thereby raise the temperature of said molten metal in said crucible to above 1200° C., said heating means comprising a first heating portion for heating said crucible body and a second heating portion for heating said lip means, said second heating portion being arranged to apply a sufficient heat input to said lip means to maintain said lip means at a substantially higher temperature than the temperature of the molten metal in the crucible so that said lip means serves to vaporize all molten metal reaching said lip.

2,665,321
THERMOELECTRIC GENERATOR
Raymond P. Flagg, Moundsview Township, Ramsey County, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 26, 1951, Serial No. 253,365
11 Claims. (Cl. 136—4)

1. A thermoelectric generator comprising a burner having a first body portion with a nozzle therein, a second hollow body portion in alignment with but spaced from said first body portion to provide for the aspirating of air into said second body portion by the flow of gas from said nozzle, an encased thermocouple unit, a burner tip, and a supporting and connecting member engaging said first and second body portions and said tip and said thermocouple unit so as to hold them in assembled relationship, said member



having an opening therein adjacent the lower edge of said second body portion and being formed with gas passages and orifices therein extending from said second body portion along opposite sides of said unit for directing flames on said unit, and forming with said unit air passages extending from said opening upwardly between said unit and said member to provide primary air at said nozzle and secondary air at said orifices.

2,665,322
METHOD OF MAKING THERMOCOUPLES
Dennison H. MacDonald, East Haven, Conn., assignor to Revere Corporation of America, Wallingford, Conn., a corporation of Connecticut
Application June 4, 1951, Serial No. 229,704
7 Claims. (Cl. 136—4)



1. The method of connecting in a thermocouple separate electro-conductive strands each being coated with insulation having a melting point near that of solder, comprising the steps of bringing intermediate lengths of said strands, respectively, into close proximity to each other; applying heat to the closely proximate strand lengths preliminary to joining them with solder, thereby melting away the insulation on said intermediate strand lengths; and applying molten solder to said closely proximate strand lengths while the latter are still hot, so that the applied solder and melted insulation, when solidified, will join said proximate strand lengths permanently.

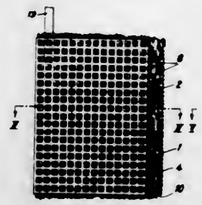
2,665,323
NEGATIVE PLATE MATERIAL FOR STORAGE BATTERIES
Thomas P. McFarlane, Farmington, Conn., and Otto Konig, New York, N. Y., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 2, 1950, Serial No. 183,081
7 Claims. (Cl. 136—26)

1. Active material for negative lead storage battery plates comprising predominantly litharge and a small proportion of a water soluble sulphonated polycyclic substituted aliphatic compound and a small proportion of a compound selected from the group consisting of 8-hydroxyquinoline 5-sulphuric acid, 1-naphthol 5-sulphonic acid and their alkali metal salts.

2,665,324
MANUFACTURE OF STORAGE BATTERIES
Thomas P. McFarlane, Farmington, Conn., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 2, 1950, Serial No. 183,082
9 Claims. (Cl. 136—26)

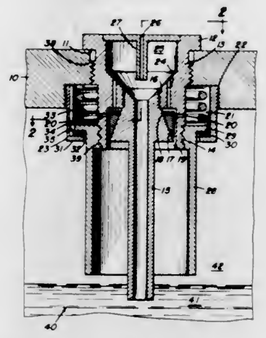
1. A positive plate active material for lead acid storage batteries comprising lead oxide and a minor proportion of an organic compound selected from the group consisting of 2-ethyl hexoic acid and its lead, sodium and potassium salts.

2,665,325
ACCUMULATOR CELL
Otto Welter, Locarno-Orselina, Switzerland
Application February 27, 1951, Serial No. 212,896
Claims priority, application Switzerland February 28, 1950
4 Claims. (Cl. 136—39)



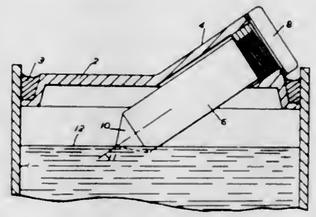
1. An electrode for an acidic storage battery, comprising, in combination, a supporting metal foil having two sets of flutes intersecting each other so as to form a grate-like pattern subdividing said metal foil into portions each being surrounded by flute portions, each of said foil portions having a hole extending therethrough; and a layer of active paste entirely covering at least one side of said metal foil including said flutes and said foil portions, said active paste filling said holes and forming on the other side of said metal foil enlarged heads of active material anchoring said layer of active paste to said metal foil, thus preventing said layer from loosening and falling off from said supporting metal foil.

2,665,326
VENT PLUG AND ELECTROLYTE LEVELING DEVICE FOR AIRCRAFT STORAGE BATTERIES
Milton A. Knight, Clifton, Va.
Application July 8, 1952, Serial No. 297,793
7 Claims. (Cl. 136—178)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A closure for a container having a normal operating liquid level therein comprising a plug adapted to be removably secured in an opening in the top of the container, a chamber in said plug opening to atmosphere, a passage in said plug normally venting the space above the liquid level in said container to said chamber, a vent pipe secured to said plug connecting said chamber to the space above the liquid level of the container in inverted position, and a gravity actuated valve reciprocal in said container operable to close said passage upon inversion of the container.

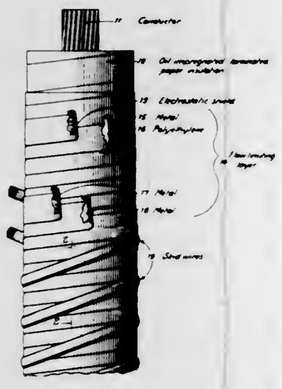
2,665,327
ELECTROLYTE LEVEL INDICATION IN ELECTRICAL ACCUMULATORS
John Ronald Martin, Denton, near Manchester, England, assignor to Oldham & Son Limited, Denton, near Manchester, England, a British company
Application January 15, 1951, Serial No. 206,026
Claims priority, application Great Britain February 7, 1950
8 Claims. (Cl. 136—182)



1. An electrical accumulator comprising a cylindrical transparent element mounted within the accumulator with its outer end visible from the exterior of the accumulator and with its axis inclined at an angle less than 45° to the horizontal, said element having a conical inner end coaxial therewith, the cone angle being substantially 45°, the apex of the conical inner end being disposed at the intended level of the liquid and a portion of the surface of the conical end being located below the level of the apex, whereby an image of the projected area of immersion,

occurring on the underside of the conical end, is produced on the upper side of the conical end, the image apparently merging across the apex with the picture of the area immersed presented to the viewer.

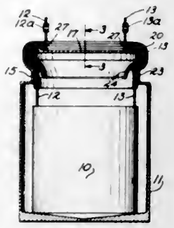
2,665,328
OIL-IMPREGNATED ELECTRIC POWER CABLE WITH FLOW-LIMITING TAPES
Ralph W. Atkinson, Westfield, N. J., and Martin H. McGrath, New York, N. Y., assignors to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application July 23, 1947, Serial No. 763,001
13 Claims. (Cl. 174—25)



4. An electric cable to be pulled into a pipe which will then be filled with an insulating fluid and maintained under pressure comprising, in combination, a conductor, a wall of oil-impregnated, laminated paper insulation enclosing the conductor, an electrostatic shielding layer over the paper insulation, a composite flow-limiting layer enclosing said insulated, shielded conductor and constituting a covering over all of the hygroscopic material in the cable construction to retard drainage of oil from the cable and entrance of moisture into the cable prior to installation while readily permitting the passage of fluid therethrough during operation of the cable, said composite flow-limiting layer comprising intercalated, helically wrapped tapes of metal and a homogeneous insulating material each of which is substantially impermeable and non-absorbent to moisture and a helically applied metal tape wrapping over the intercalated tapes, and a skid wire member wrapped helically over the metal tape wrapping to protect the cable when it is drawn into a pipe and to minimize the pulling tension required.

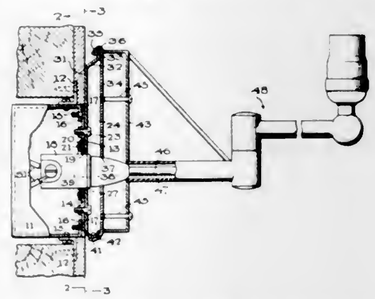
2,665,329
CLOSURE AND TERMINAL SEAL FOR ELECTROLYTIC DEVICES
Joseph B. Brennan, Bratenahl, Ohio, assignor to Everett D. McCurdy, trustee
Application March 11, 1947, Serial No. 733,970
8 Claims. (Cl. 174—52)

7. In an electrolytic device having an open-ended container, a closure for said container comprising two tubular sealing members composed of resilient insulating material disposed one laterally within the other within the open end of said container and having continuous opposed complementary mating contacting surfaces with portions of the mating surface of one member in direct sealing contacting engagement with portions of the mating surface of the other member, means for supporting the mating surface of the inner of said sealing members against external transverse pressure and a terminal member comprising a metallic conductor extending from the exterior to the interior of said container and



extending between portions only of said opposed surfaces, means for applying external transverse pressure to the other sealing member to urge said opposed surfaces together to seal against said terminal and to seal against each other in the regions where the surfaces engage each other rather than the terminal, and a separate rigid member disposed within the inner of said sealing members to support the same against external transverse pressure.

2,665,330
WALL OUTLET AND FIXTURE MOUNTING
Lan J. Wong, Cincinnati, Ohio
Application September 26, 1949, Serial No. 117,750
6 Claims. (Cl. 174—61)



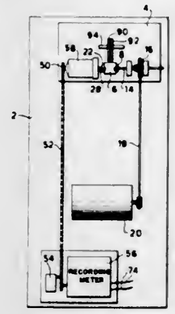
1. An electrical wall outlet and fixture mounting comprising a wall plate formed with a centrally located aperture, the upper end of said plate being off-set from the plane of said plate to form a first hinge element, a female electrical connector carried by said wall plate in said aperture, a fixture supporting plate, the upper end of said fixture plate having a reversely bent portion forming a second hinge element cooperating with and overlying said first hinge element to provide a detachable hinge pivotally supporting said fixture plate on said wall plate, a male electrical connector arranged on said fixture plate to enter said female connector upon movements of said fixture plate about the axis of said hinge toward said wall plate, and cooperating elements at the lower ends of said plate forming a lock for securing said plates in superimposed positions with said male connector engaged in said female connector.

2,665,331
CONNECTOR FOR STRANDED CABLE
Arthur A. Berndt, Chicago, Ill., assignor to Electroline Company, Chicago, Ill., a corporation of Illinois
Application April 4, 1952, Serial No. 280,512
5 Claims. (Cl. 174—94)



1. A connector for stranded wire conductors comprising a tubular casing having a tapering end portion, gripping members arranged within said tapering end portion and adapted to receive and grip the outer wires of a conductor inserted within the tapering end portion, means yieldingly retaining the gripping members in operative connected relation so that they coact as a unit in gripping the conductor, other gripping elements located rearwardly in tandem relation with respect to the gripping members and operative to grip and hold the center wire of said conductor, said other gripping elements including a cylindrical cage located within the casing and secured thereto, said cage having tapering surfaces interiorly thereof, a plurality of gripping wedges located within the cage in contact with the interior tapering surfaces thereof, a retainer for the gripping wedges, and resilient means for the gripping members and wedges respectivly, for urging the parts in a forward direction to maintain them in contact with their tapering surfaces.

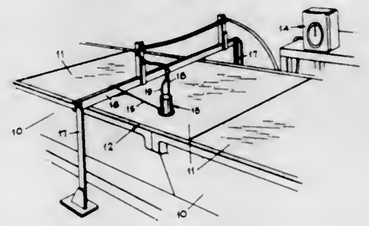
2,665,332
MAGNETIC MEASURING METHOD AND APPARATUS
Eric A. Weiss, Springfield, and J. Rondle Wright, Morton, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application November 25, 1949, Serial No. 129,482
22 Claims. (Cl. 324—14)



1. Magnetic measuring apparatus comprising means for mounting and rotating a sample; a magnetic gradiometer including a pickup of the saturable core type, means for exciting said pickup at a frequency substantially higher than the frequency of rotation of the sample, and means for demodulating signals from said pickup to give signals at the frequency of rotation of the sample; and means for mounting said pickup adjacent to the rotating sample.

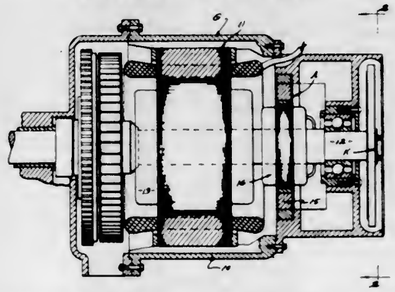
16. The method of measurement of the magnetic characteristics of a rock core comprising producing from the core a spherical sample, rotating the sample about one axis adjacent to a magnetic pickup, rotating the sample adjacent to the pickup about another axis perpendicular to the first mentioned axis, rotating the sample adjacent to the pickup about a third axis perpendicular to both of the aforementioned axes, and measuring the outputs of the pickup resulting from said rotations.

2,665,333
APPARATUS FOR MEASURING THICKNESS OF SHEET MATERIAL
Donald W. Dunipace and Norman C. Nitschke, Perrysburg, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application November 30, 1950, Serial No. 198,412
15 Claims. (Cl. 324—34)



1. An apparatus for determining the thickness of a non-magnetic material from one surface thereof, comprising a magnetic surface beneath the non-magnetic material, means including a supporting case positioned above said surface, means supplying a film of fluid beneath the supporting case to maintain the same at a predetermined distance above the non-magnetic material, a normally balanced electrical system, means constituting a part of the electrical system mounted within said supporting case for creating a magnetic field which varies with changes in the distance between said case and said magnetic surface to create an unbalance in the electrical system, means for indicating the changes in the distance between the case and the magnetic surface, and means operable within the electrical system to balance current conditions when a change in said distance occurs.

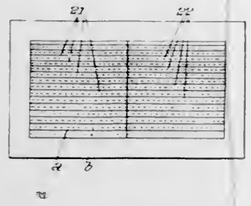
2,665,334
DRY PLATE TYPE RECTIFIER
Maurice W. Brainard, Los Angeles, Calif., assignor of one-half to O'Keefe & Merritt Company, Los Angeles, Calif., a corporation of California
Application April 9, 1951, Serial No. 220,020
19 Claims. (Cl. 317—234)



1. A rectifier of the character described including, two disc-shaped members spaced apart in opposed relation, means mechanically connecting, electrically insulating and sealing the members at the peripheries thereof, said means in-

cluding a rigid mechanical connection holding the members against moving apart and an electrical insulator sealing between and electrically insulating the members, means connecting, electrically insulating and sealing between the central portions of the members, said last-named means being adapted for mounting on a shaft to support said rectifier, cooperating electrical elements confined between said members and between said respective means adapted to act in a rectifying circuit and including a rectifying element and a contact engaged therewith, and means completing a rectifying circuit through the said electrical elements.

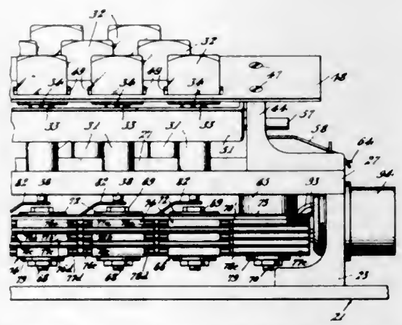
2,665,335
STEREOSCOPIC TELEVISION METHOD AND APPARATUS
Roger Cahen, Paris, France, assignor to La Radio Industrie, Paris, France, a society of France
Application July 25, 1949, Serial No. 106,724
Claims priority, application France August 3, 1948
5 Claims. (Cl. 178—6.5)



1. A relief television system which comprises, in combination, a transmitter including a single light sensitive element, optical means for forming on said light sensitive element a composite image constituted by the juxtaposition of the stereoscopic components of a reproduction of the scene to be televised, a single device for scanning said element along lines running across both of said components, means responsive to variations of illumination of the scanned areas of said element for producing video signals and means for transmitting said signals, a receiver including a screen and means operative by the transmitted signals for reconstructing on said screen successively the lines of said composite image each in the form of two immediately successive and substantially superposed lines corresponding each to one half of the corresponding line of the composite image at the transmitter, shifting light polarization means interposed between said screen and the spectator's eyes and operatively connected with said receiver means for giving the polarization plane alternating rotations of ninety degrees in synchronism with the scanning of successive lines on said screen, and two polarizing viewing means interposed between said shifting polarization means and each of the spectator's eyes respectively, the polarization planes of said respective viewing means being parallel to those of said shifting polarization means respectively.

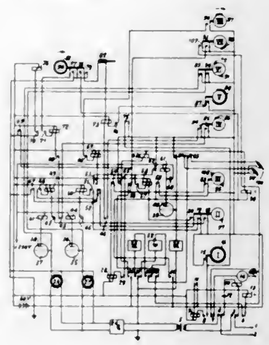
2,665,336
ELECTRICAL KEYBOARD
Joseph J. Saykay, Sea Cliff, N. Y.
Application August 8, 1950, Serial No. 178,186
6 Claims. (Cl. 178—79)

1. In combination with a series of electro-responsive devices, a plurality of keys, a code stack individual to each of said keys, each of said stacks having a plurality of the same number of code positions therein, each of said code positions having either a rectifying or an insulating element therein, a series of substantially straight conducting strips extending through and electrically interconnecting the corresponding code positions of a plurality of said code stacks, means



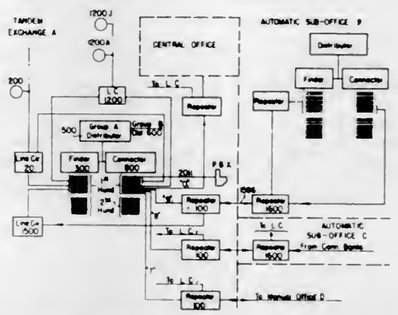
operative on the actuation of one of said keys to apply electrical potential to its associated code stack, and means including said conducting strips for conducting potential from said code stack to said electro-responsive devices to selectively operate the same in accordance with the location of the rectifying elements in the stack of the actuated key.

2,665,337
TELEPHONOGRAPH WITH ANSWERING DEVICE
Max G. Handschin, Zurich, Switzerland, assignor to Promundo, Schaan, Liechtenstein, a firm
Application October 16, 1950, Serial No. 190,358
2 Claims. (Cl. 179—6)



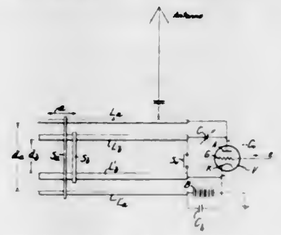
2. In combination with a telephonograph, a telephone line, means for connecting a remote caller to said telephonograph, said telephonograph including a speech recording means and a separate predetermined message playback means, means rendered operative upon establishment of a connection of said caller over said telephone line with said telephonograph to start the operation of the said playback means for sending a predetermined message out on said telephone line to the caller; circuit controlling means for energizing said speech recording means upon termination of said predetermined message to receive and record an incoming message; relay means actuated by voice currents to maintain energization of said speech recording means and having time delay means for interrupting such energization a predetermined time after cessation of voice currents; relay means for resuming operation of said playback means upon such interruption to transmit a second message to said caller; a pair of filter circuits respectively responsive to low and high frequencies and each having input and output leads, said input leads being connected to said telephone line; relay means respectively connected to said output leads; means actuated by a short signal of suitable incoming frequency through one of said filter circuits to energize its associated relay means to erase the message previously recorded by the caller and means actuated by suitable incoming frequencies through the other filter circuit to energize its associated relay means for causing repetition of the message previously recorded, after said second message.

2,665,338
DIGIT-ABSORBING REPEATER
Clarence E. Lomax, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Original application October 11, 1946, Serial No. 702,846. Divided and this application December 9, 1948, Serial No. 64,281
10 Claims. (Cl. 179—18)



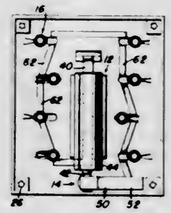
1. In an automatic telephone system, a first repeater, an incoming line connected to said first repeater, a second repeater, an outgoing line connected to said second repeater, a trunk line interconnecting said first repeater and said second repeater, means in said first repeater for repeating impulses of successive digits received over said incoming line to said second repeater by way of said trunk line, an impulse relay in said second repeater controlled by said impulses of said successive digits received from said first repeater over said trunk line, a control relay in said second repeater operative to transmit a control signal over said outgoing line, a register in said second repeater, contacts controlled by said impulse relay for operating said register to register the number of impulses in a first digit, additional contacts controlled by said impulse relay for repeating over said outgoing line the impulses of succeeding digits received over said trunk line, means controlled by operation of said register to register impulses of a first digit for operating said control relay, and additional means controlled by said register responsive to the registration therein of a predetermined number of impulses in a first digit for preventing transmission of said control signal over said outgoing line by said operated control relay.

2,665,339
HIGH AND VERY HIGH FREQUENCY TUNABLE CIRCUITS
Leopold Leng, Wettingen, Switzerland, assignor to "Patelhold" Patentverwertungs- & Elektro-Holding A.-G., Glarus, Switzerland
Application November 18, 1948, Serial No. 60,721
Claims priority, application Switzerland November 29, 1947
6 Claims. (Cl. 179—171)



4. The combination of electron tube means having a pair of electrodes constituting terminals across which a tunable network may be connected, of a dual range tuning system comprising a pair of Lecher lines of different inductance values and each including a pair of parallel conductors and a shorting bar adjustable along the same, means effectively connecting the inner ends of the parallel conductors of the Lecher line of larger inductance value directly across said pair of electrodes for currents of high and very high frequency values, means connecting the inner ends of the conductors of said other Lecher line across said electrodes in parallel with said Lecher line of larger inductance value, said last connecting means including capacitive impedance serially connected between at least one of the inner ends of said other Lecher line and said tube electrodes, and means adjustable to connect said capacitive impedance across said electrodes in parallel with said Lecher line of larger inductance value and simultaneously to minimize the effective impedance of said other Lecher line, said adjustable means comprising means for shorting the inner ends of the parallel conductors of said other Lecher line.

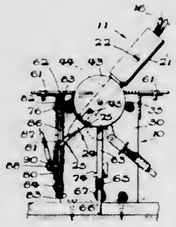
2,665,340
CIRCUIT CLOSER
Clarence R. Hammerstrand, Rockford, Ill.
Application January 15, 1951, Serial No. 205,981
2 Claims. (Cl. 200—43)



1. An electrical switch comprising a housing having a plurality of transversely extending and longitudinally spaced parallel slots in one wall thereof, switch elements disposed in said slots and having shank portions extending into said housing, coil springs disposed about said shank portions, longitudinally extending elongated heads integrally formed with said shank portions and being urged into engagement with said

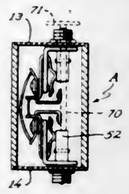
one wall by said springs, and electrical conductor elements joining preselected ends of adjacent slots, said switch elements having annular contacts slidable thereon for selective positioning in said slots and for selectively opening and closing a circuit formed by said conductors, said wall of said housing having said slots longitudinally aligned and formed with a ridge longitudinally connecting said slots at the central portions thereof, said elongated heads being of cylindrical form and selectively positionable on opposite sides of said ridge for making and breaking the circuit.

2,665,341
SHOCKPROOF LOCKING ELECTRICAL PLUG AND RECEPTACLE
Walter H. Wilson, Mansfield, Ohio
Application February 26, 1953, Serial No. 339,020
8 Claims. (Cl. 200—50)



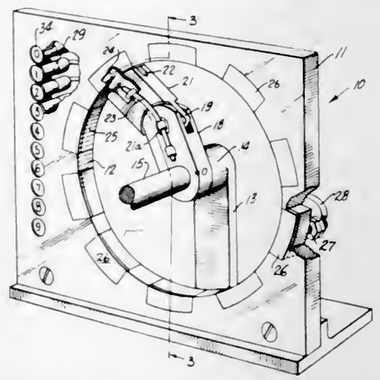
1. In combination, a shock-proof locking electrical plug and receptacle comprising an axially extending contact rod, a contact sleeve insulatably supported on said contact rod having one end thereof spaced from an extending contact end of said contact rod, said contact sleeve having a circumferential groove thereabout adjacent said contact sleeve end, means for securing a separate electrical conductor to each of said contact rod and said contact sleeve, an insulating jacket providing a plug handle secured about said conductor securing means, and a conductive receptacle for said plug, a conductive socket disc journaled in said receptacle having a diametrically extending socket opening therethrough to receive said plug contact sleeve therein with its end extending beyond the inner end of said socket opening, a yieldable toggle member journaled in said receptacle and secured to said disc and yieldably urging it toward each limit of its rotation, means for locking said disc against rotation in the absence of said plug and operable by said plug for releasing said disc for rotation, plug locking means secured in said receptacle in the path of rotation of said end of said plug contact sleeve to fit into said sleeve circumferential groove, a plug contact rod cooperating contact terminal insulatably supported in said receptacle in the path of said plug contact rod contact end to abut said plug contact rod contact end when said plug is locked in said socket and be yieldably urged against said contact terminal by said toggle means, said insulatably mounted contact terminal providing a positive terminal, and a negative terminal grounded to said receptacle and thus through said disc to said plug contact sleeve, whereby insertion of said plug into said disc socket opening expels said disc latch member permitting said disc and plug to rotate into plug lock cooperating position and then to contact completing position, and be held in contact completing position by said toggle means, said plug being thus locked against removal while in contact completing position, and to be rotated away from contact completing position to plug releasing position and then to disc latching position as said plug is withdrawn, and whereby a foreign object of sufficiently dissimilar shape will be non-cooperative with said locking means, and a foreign conductive object of sufficiently similar shape to expel said disc latch member and rotate said disc to contact completing position will ground the circuit through said receptacle.

2,665,342
ALARM SWITCH
Alex H. Vadnais, St. Paul, Minn.
Application July 24, 1950, Serial No. 175,490
6 Claims. (Cl. 200—52)



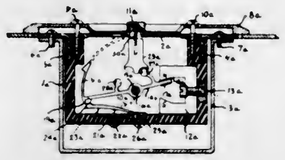
3. A burglar alarm switch including a housing, a pair of switches supported in said housing and electrically connected for parallel operation, a pair of push buttons slidably supported by opposite ends of said housing, said push buttons being off-set out of longitudinal alignment, each of said push buttons cooperating with a switch to actuate the same, each switch including a resilient part frictionally engaging its push button in depressed position, each of said push buttons normally remaining depressed when once depressed, said housing having openings therethrough in longitudinal alignment with each of said push buttons, said openings being designed to accommodate a push button resetting device capable of engaging the inner push button ends.

2,665,343
ROTARY SWITCH DEVICE
Bernard S. Benson, Malibu, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Application August 30, 1950, Serial No. 182,363
6 Claims. (Cl. 200—65)



1. A device of the type described, comprising: a master member adapted to be rotatably driven from a moving part; magnetic means; means for mounting said magnetic means to said master member for limited movement with respect to said master member and movable therewith in a circular path of travel as said master member is rotatably driven; resilient means normally resisting retrograde and progressive movement of said magnetic means in said path relative to said master member as the latter is rotatably driven, said magnetic means including a contact element movable therewith; and a plurality of equally spaced apart ferro-magnetic segments, including contact portions, carried by a wall surface concentrically circumscribing said master member and arranged substantially coincident with the path of travel of said contact element; the magnetic forces created by movement of said magnetic means into a position juxtaposed with one of said segments holding said contact element in engagement with the contact portion of said juxtaposed segment as said master member continues to rotate until said magnetic forces are less than the movement resisting forces of said resilient means, whereupon said resilient means substantially instantaneously moves said magnetic means into juxtaposed relationship with the next adjacent segment to thus move said contact element substantially instantaneously into engagement with the contact portion of said next adjacent segment.

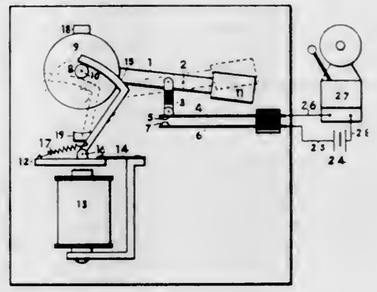
2,665,344
SILENT MAGNETIC SWITCH
Igor Zozulin and George J. Okulitch, Vancouver, British Columbia, Canada
Application October 22, 1951, Serial No. 252,482
Claims priority, application Canada August 13, 1951
3 Claims. (Cl. 200—67)



1. An electric switch hermetically sealed within an insulating box open at one side, by a flexible diaphragm, a permanent magnet having a north pole and a south pole facing each other across a gap, a beam carrying an armature at one end and an electrical contact at the opposite end pivotally mounted within said casing, the said armature extending into the gap between the said north and south poles, said electric contact on said beam making contact with an electric contact on the wall of said box when said armature adheres to said north pole and said contact on said beam separating from said contact on said box when said armature adheres to said south pole, a protuberance on said diaphragm comprising a button, a pressure and motion transmitting member on the side of the diaphragm remote from said button and arms on said beam to contact said pressure transmitting member.

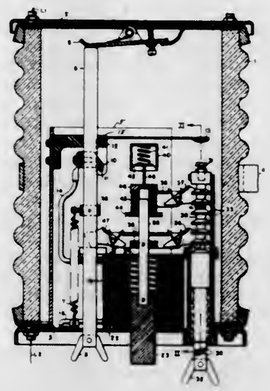
2,665,345
RELAY
Henry Burton, Gardena, Calif.
Application February 16, 1951, Serial No. 211,310
4 Claims. (Cl. 200—97)

1. A relay comprising in combination first and second switch elements positioned and supported so that the first switch element, biased to a normal position, is movable into and out of cooperation with the second switch element, a vibrator fashioned and supported for rhythmic vibration, yielding transmission means linking the first switch element with the vibrator, effective to communicate energy of vibratory movements of the vibrator to the first switch element as pressure impulses counter to its bias, the degree of pressure being proportional to the velocity of the vibratory movements, so that the first switch element



is progressively moved in opposition to its bias incident to rhythmic vibrations of the vibrator, whenever the resultant recurring pressure impulses combine to exert substantially continuous pressure upon the first switch element counter to and greater than its bias, and the first switch element recedes responsive to its bias whenever said counter pressure is less, whereby to provide switch means responsive to variations of the rhythm of sustained vibrations.

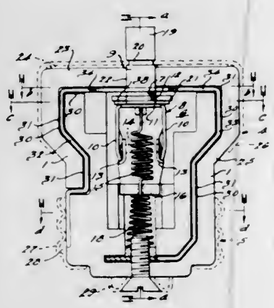
2,665,346
COUNTING MECHANISM FOR LINE SECTIONALIZERS
Andrew W. Edwards, East McKeesport, and Earl F. Beach, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 21, 1950, Serial No. 175,273
13 Claims. (Cl. 200—108)



1. A circuit interrupter comprising; separable contacts biased apart; releasable means for

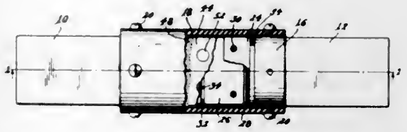
maintaining said contacts closed; an operating-member, solenoid means operable to actuate the movable member between a retracted position and an advanced position; a movable counter-member biased toward an inoperative position; a one-way drive-mechanism actuated by the operating-member to impart one step of a step-by-step advance to said counter-member each time said operating-member moves to its advanced position; a holding-detent operable to hold said counter-member in advanced positions; a time-delay device operable to make said holding-detent inoperative within a predetermined time after the counter-member is set in operation; and means actuated by the counter-member to effect release of the releasable means at the end of a predetermined number of repeated advance-steps of said counter-member.

2,665,347
ELECTRIC CIRCUIT BREAKER
Richard Castle Ingwersen, Jackson, Mich., assignor to Mechanical Products, Inc., Jackson, Mich., a corporation of Michigan
Application May 24, 1952, Serial No. 289,742
2 Claims. (Cl. 200—116)



1. In an electric circuit breaker having current overload protection, casing structure defining a cylindrical interior space, a pair of fixed contacts disposed in said space in diametrically spaced relationship, conductor strips carrying said fixed contacts, said conductor strips including end portions enclosed in said casing and opposite end portions extending transversely into said space from diametrically opposite locations on said casing and exposed in said space, said opposite and exposed conductor end portions extending in oppositely directed bent relationship to their said casing locations and terminating in spaced relationship within said space on a diameter substantially perpendicular to said casing locations with said bent conductor portions substantially following the cylindrical contour of said space, said fixed contacts being carried at said terminating conductor ends, movable contact means mounted within said casing space, said movable contact means including spaced contacts positioned to engage with said fixed contacts and incorporating electrically conductive thermal latch means operable to hold said movable contact means closed with respect to said fixed contacts but automatically operable to free said movable contacts to move to open position upon the occurrence of current overload, said movable contact means bridging the space between said fixed contacts, and said fixed and movable contacts being so disposed, when closed, as to give rise to a substantially circular magnetic arcing path when the circuit is interrupted at said contacts, and arc baffle means within said casing space, said arc baffle means being located between the said transversely bent exposed conductor portions adjacent the said casing locations and the terminating ends of the conductors carrying said fixed contacts so that said baffle means lie within the said arcing path.

2,665,348
CURRENT-LIMITING FUSE
Frederick J. Kozacka, Amesbury, Mass., assignor to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts
Application May 16, 1950, Serial No. 162,323
39 Claims. (Cl. 200—120)



1. In a fuse the combination of a fuse link having a zone of restricted cross-section, insulating means in immediate contact with and enclosing said link and defining an orifice for permitting the escape of metal vapors formed upon vaporization of said zone of restricted cross-section, said orifice extending generally in a direction transversely of said link, a pulverulent substance on the outside of said insulating means for receiving said metal vapors escaping from said orifice, and a casing of insulating material enclosing said pulverulent substance.

2,665,349
FUSE LINK
Vernon A. Sander, University City, Mo., assignor, by mesne assignments, to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application June 14, 1951, Serial No. 231,453
18 Claims. (Cl. 200—123)



1. A fuse link comprising spaced separable fuse terminals, a fast-acting fuse unit and a slow-acting fuse unit connected in series both mechanically and electrically between the terminals, said fast-acting unit being connected at one end to one fuse terminal, said slow-acting unit comprising a heat-conductive strain element having a connection at one end to the other end of the fast-acting unit and having a connection at its other end to the other fuse terminal, one of said connections comprising an electrically conductive heat accumulator element and fusible material connecting the strain element thereto, the other connection being an insulating connection to preclude the strain element from carrying current, and an electrical resistance heater element adjacent to and electrically insulated from the strain element and

electrically connected between said other end of the fast-acting unit and said other fuse terminal by connections one of which comprises said fusible material.

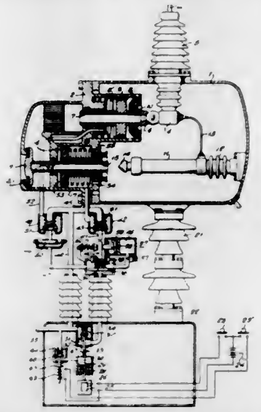
2,665,350
FUSE LINK
Leo Pummer, Chicago, Ill., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware
Application January 2, 1952, Serial No. 264,488
3 Claims. (Cl. 200—135)



1. A high voltage fuse link having spaced terminal sections, the opposing faces of each terminal having slots extending upwardly and downwardly from respective opposing faces, a low melting element extending between the said opposing faces, the ends of the low melting element extending into the said slots of said opposing faces, a small hole extending transversely through each terminal and the end of the element that extends into the slot, a strain wire threaded through both transverse holes and fastened in taut position, a low melting solder injected into the slots on both sides of the ends of the element, and into the transverse hole through each terminal, the low melting solder forming a firm joint for the smooth flow of current between the terminals and a flexible leader attached to the lower terminal whereby the entire link is placed in tension when assembled in a fuse tube and the stresses do not affect the fusible element of said link.

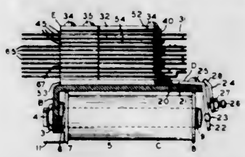
2,665,351
ARRANGEMENT IN AIR BLAST CIRCUIT BREAKER PROVIDED WITH DAMPING RESISTANCE
Haakon Forwald, Ludvika, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application February 6, 1952, Serial No. 270,170
Claims priority, application Sweden February 9, 1951
5 Claims. (Cl. 200—148)

1. An air blast circuit breaker comprising a compressed air container, an insulating support for said container, a wall dividing said container into two compartments, openings in said wall, a main breaking contact pair mounted in one of said compartments in close proximity to one of said openings, a damping resistance coupled in parallel with said contact pair, an auxiliary contact pair connected in series with said damping resistance and located in close proximity to another of said openings, pneumatic means for operating said main and auxiliary breaking contacts, an outlet valve from the other compartment, means connecting said valve with the mov-



able contact of said auxiliary contact pair, a time lag device for the pneumatic operating means of said movable auxiliary contact, and means whereby said time lag device effects an immediate closing but a delayed reopening of said auxiliary contact pair.

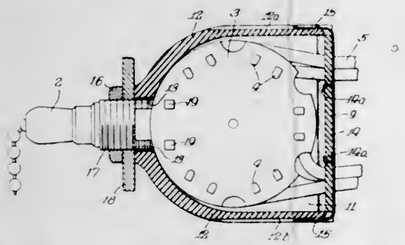
2,665,352
CONTACT-SPRING SWITCH ASSEMBLY
John I. Bellamy, Wheaton, and Richard P. Arthur, Chicago, Ill., assignors, by mesne assignments, to International Telephone and Telegraph Corporation, a corporation of Maryland
Original application April 10, 1948, Serial No. 20,196. Divided and this application March 10, 1951, Serial No. 214,908
5 Claims. (Cl. 200—166)



3. In a contact-blade switch assembly, two opposed columns of superposed contact-making blades and structure for clamping them in a unitary assembly, said clamping structure including similar superposed insulating laminations with the blades clamped between them in succeeding layers, each layer including a separate blade of each stackup, the two blades of a layer lying side-by-side out of contact with each other, each lamination having a relatively wide generally rectangular rear portion succeeded by a relatively narrow forwardly extending tongue portion, each column including superposed sets of blades each including a flexible travelling blade and a relatively fixed blade appearing in adjacent layers and arranged to engage and disengage each other at their forward end incidental to flexure of the travelling blade, each blade being clamped between the respective rear portions of adjacent laminations, the forward portion of each travelling blade being unclamped and extending freely alongside of the tongue portion of the laminations, each fixed blade being clamped

between the respective tongue portions of adjacent laminations substantially throughout the length of such tongue portions, each lamination having an opening through its rear portion and an opening through its tongue portion, said clamping structure further including overlying and underlying clamp plates, respective clamp members passing through the said openings out of engagement with the blades and engaging each clamp plate to clamp the said parts of the clamping structure rigidly together.

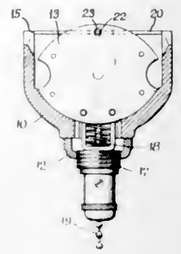
2,665,353
SWITCH HOUSING
Rudolf Popp, Valparaiso, Ind., assignor to McGill Manufacturing Company, Inc., Valparaiso, Ind., a corporation of Indiana
Application June 8, 1950, Serial No. 166,894
8 Claims. (Cl. 200—168)



1. A switch housing comprising a half oval-shaped body member having a pair of half oval-shaped parallel plate portions and a U-shaped strip portion bent to conform to the curvature of said plate portions, said portions forming a cavity having an open end and being sufficiently large to accommodate a switch mechanism therein, said U-shaped strip portion having an aperture in the vertex portion thereof and central depressions formed in the outer faces of the ends of each of the leg portions thereof, a snap-catch protrusion formed on the extreme end of each of said leg portions and centrally disposed within each of said depressions, and a detachable covering plate for said opening, said plate having a plurality of lead-in conductor accommodating notches cut therein and a resilient strip secured thereto, said strip having two end portions overlapping opposing sides of said plate, said end portions having centrally disposed holes formed therein and being bent to form a clasp so that said holes coact with protrusions on said body member as a snap-catch securing means.

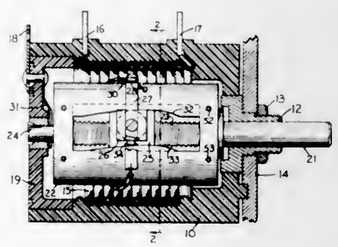
2,665,354
ELECTRIC SWITCH HOUSING
Rudolf Popp, Valparaiso, Ind., assignor to McGill Manufacturing Company, Inc., Valparaiso, Ind., a corporation of Indiana
Application November 2, 1951, Serial No. 254,467
4 Claims. (Cl. 200—168)

1. In an electric switch assembly which has a switching mechanism with an operating means therefor projecting therefrom, the combination of a pair of spaced frame plates disposed on either side of the switching mechanism and supporting the switching mechanism therebetween with the operating means extending out from one edge of each of said frame plates, each of said frame plates having an aperture therein adjacent the edge thereof opposite the first mentioned edge, a housing having an open end for receiving said frame plates with the switching mechanism supported therebetween, said housing having an aperture in its end opposite said open end and through which the operating means for the switch mechanism protrudes, and an insulating cover member having a pair of ears respectively ex-



tending into the aforementioned apertures in said frame plates to support said cover member between said frame plates, said cover member having a configuration corresponding to the aforesaid open end of said housing to enclose said open end.

2,665,355
POTENTIOMETER
De Witt T. Van Alen, Delavan, and Harold G. Foote, Fontana, Wis., assignors to The George W. Borg Corporation, Chicago, Ill., a corporation of Delaware
Application February 7, 1952, Serial No. 270,364
12 Claims. (Cl. 201—56)

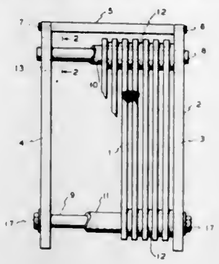


1. A potentiometer comprising a helical resistance element, a slider contact adapted to travel helically along the turns of said element, means including an operating shaft for driving said contact, and means effective during travel of said contact to change its rate of movement relative to the rate of the operating shaft.

2,665,356
RESISTOR STRUCTURE
Robert E. Du Bois, Hammond, Ind.
Application February 27, 1952, Serial No. 273,685
6 Claims. (Cl. 201—63)

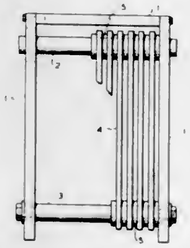
1. An electrical resistance structure comprising a frame with a pair of end members, said end members being bored at one or more points to provide holes therethrough, a pair of resistor grid supporting bolts carried by said frame, at least one of said bolts extending through the holes in the end members of the frame and being of substantially less diameter than the end member hole, and a helical spring connected to each

end of the bolt and to the end member in the plane of the end member to permit expansion



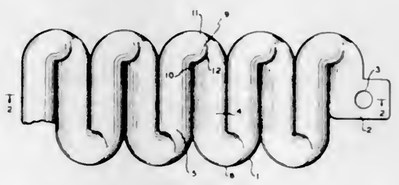
and contraction of the resistor grid by allowing said supporting bolt to move.

2,665,357
RESISTOR MOUNTING
Robert E. Du Bois, Hammond, Ind.
Application February 27, 1952, Serial No. 273,687
3 Claims. (Cl. 201—63)



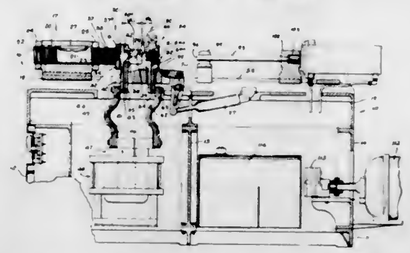
1. A resistance structure comprising a plurality of spaced resistor grids, a plurality of aluminum supporting elements extending through and supporting said grids in a frame, aluminum spacers carried on said elements between said grids, said elements and spacers having an anodic coating of aluminum oxide thereon to prevent current leakage between the various parts of the structure.

2,665,358
RESISTOR GRID
Robert E. Du Bois, Hammond, Ind.
Application February 27, 1952, Serial No. 273,686
3 Claims. (Cl. 201—69)



1. A zig-zag resistor grid comprising adjacent sections and bridging sections connecting the adjacent sections, said adjacent resistor sections being of opposite curvature and being electrically separated from each other, and said bridging sections having concave and convex portions which gradually merge with each other.

2,665,359
UPSETTING APPARATUS
Lorne F. Knight, Toronto, Ontario, Canada, assignor to Massey-Harris Company Limited, Toronto, Ontario, Canada
Application June 27, 1952, Serial No. 295,931
3 Claims. (Cl. 219—3)

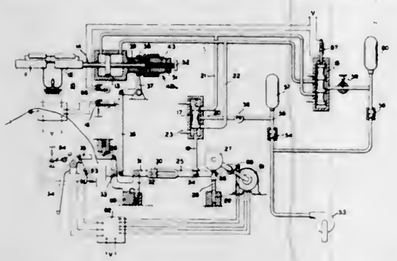


1. Apparatus for upsetting a rod, comprising in combination: a machine bed; a stationary head mounted on said bed and having an anvil block serving as one electrical contact; a ram for moving a rod axially in a direction toward the anvil block to cause the rod to engage the anvil block under predetermined pressure; a clamp having a pair of jaws for making an electrical contact to the rod at a point between the anvil block and the ram; means electrically isolating the clamp and the anvil block, a source of electrical current connected to the clamp and anvil block for causing that portion of the rod extending therebetween to heat to a deforming temperature and under action of said predetermined pressure from said ram, to upset against said anvil block; means associated with said ram for substantially maintaining the pressure of engagement of the rod against said anvil block while the rod is being upset thereagainst; means independent of said ram for controllably moving said clamp in a direction away from said anvil block while the rod is being upset against the latter; a double-acting hydraulic cylinder for actuating the jaws of said clamp; a second double-acting hydraulic cylinder for actuating said ram; a third double-acting hydraulic cylinder for slidably moving said clamp; means normally hydraulically biasing said cylinders to position said clamp next said anvil block in predetermined spacing therefrom and simultaneously positioning said ram in the retracted position and the jaws of said clamp in the open position.

2,665,360
FLASH WELDER CONTROL
Hans Henning Hansen, Warren, Ohio, assignor to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio
Application March 14, 1952, Serial No. 276,544
16 Claims. (Cl. 219—4)

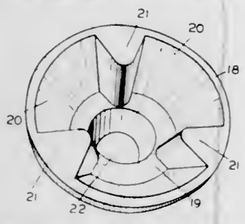
11. In a hydraulic control system for an electric resistance flash-butt welder having a movable platen and a hydraulic cylinder connected thereto for moving the platen as well as a valve for controlling the flow of hydraulic fluid under pressure to said cylinder to advance said platen through an initial flashing range of movement and a second valve to furnish fluid to said cylinder to advance said platen through a further or upset range of movement, differential mechanical linkage for actuating said first mentioned valve, means for actuating said linkage comprising a drive member, yieldable means interconnecting said platen and said drive member whereby said drive member may move forwardly

along with said platen over said first range of movement, and stop means to interrupt move-



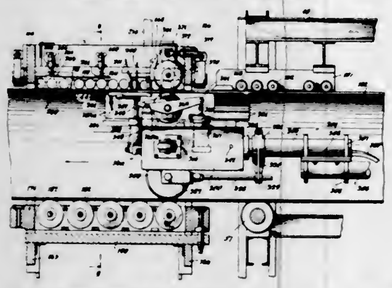
ment of said drive member during movement of said platen through its said further range of movement.

2,665,361
ARTICLE FOR FLASH WELDING TRACK ROLLERS
Edwin P. McDonald and James Conlogue, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application December 9, 1950, Serial No. 200,068
4 Claims. (Cl. 219—4)



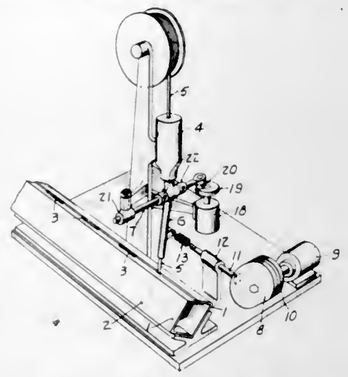
1. A protective insert for protecting the walls of a cavity in a welded member from weld splatter comprising a cup-shaped member having a wall portion provided with an opening, a cylindrical side wall diverging outwardly from said wall portion, and a plurality of members on said side wall, said members projecting inwardly toward the center of said insert.

2,665,362
MANUFACTURE OF PIPE
Frederic M. Darner, Shaker Heights, and Walter J. Caine, Cleveland Heights, Ohio, assignors to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application June 14, 1949, Serial No. 99,101
36 Claims. (Cl. 219—6)



1. In apparatus for advancing a pipe blank of large diameter and having a longitudinal cleft, in combination, a roll contoured for rolling engagement with the outer surface of the pipe and spanning the cleft, a roll contoured for rolling engagement with a corresponding part of the inner surface of the pipe, a cleft-penetrating fin carried by one of said rolls, and adapted to keep the pipe cleft open to the width of the fin, the other of the rolls having an annular slot to accommodate the fin, means for driving at least one of said rolls to advance the pipe axially, means extending through the cleft for supporting the internal roll in the aforesaid rolling engagement, and controlled pressure means embodied with the supporting means to hold the inner roll in strong compressive engagement with the pipe blank and thereby to hold the margins of the blank adjacent the cleft in strong compressive engagement with the external roll, to cooperate therewith in driving both margins of the pipe blank concurrently.

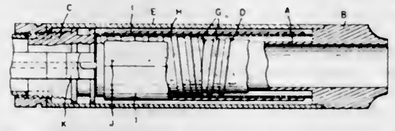
2,665,363
ELECTRODE MOTION
George R. Wepfer, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application May 26, 1951, Serial No. 228,433
8 Claims. (Cl. 219—10)



1. In a method of making a short arc weld along a predetermined line of welding, the steps of providing an arc between the arcing terminal of an electrode and the work at a first point on said line of welding, maintaining said arc in the vicinity of said point for a period of time sufficient to permit the deposition of a substantial amount of metal therearound, moving said arcing terminal to a second point on said line of welding without depositing metal during said movement, said second point being spaced from said first point and being at a relatively cool portion of the work, and travelling said arcing terminal back along the line of welding until said deposited metal is reached, said return travel being at a welding speed relative to the work and effecting deposit of weld metal to provide with said first-named deposition of metal a crater-free continuous bead of deposited metal between said first and second points.

2,665,364
ELECTRICALLY HEATED TOOL
Laurence H. Thomas, Birmingham, Mich., assignor to American Electrical Heater Company, Detroit, Mich., a corporation of Michigan
Application April 16, 1951, Serial No. 221,170
2 Claims. (Cl. 219—22)

1. In an electrically heated tool, a socket for receiving the shank of the tool proper and having radially extending heads at opposite ends thereof, an electrical heating unit surrounding said socket between and spaced from said heads, sheet mica insulating material for said unit extending the full distance between said heads, a sheet metal wrapper of substantially the length



of said sheet insulating material surrounding and clamping said unit on said socket, the opposite axially extending edge portions thereof being welded to each other and the ends spaced slightly from said heads, and an external casing mounted on said heads spaced from said wrapper to be insulated therefrom.

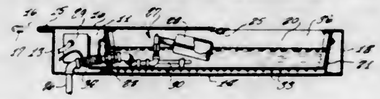
2,665,365
ELECTRICALLY HEATED TOOL
Laurence H. Thomas, Birmingham, Mich., assignor to American Electrical Heater Company, Detroit, Mich., a corporation of Michigan
Application March 27, 1950, Serial No. 152,113
3 Claims. (Cl. 219—26)



1. In a soldering iron of the type using an electrical heating unit, a handle member having a tubular shank and an exchangeable tool member comprising, a tip having a plain hollow thin walled cylindrical portion for receiving the electrical heating unit, the external diameter of which is sufficiently less than the internal diameter of the tubular shank to loosely telescopically engage the latter with the adjacent surfaces out of contact so as to avoid adhesion thereof by corrosion of the adjacent surfaces, and means on the portion of said shank directly surrounding said cylindrical portion for rigidly clamping said cylindrical portion without distortion of the same.

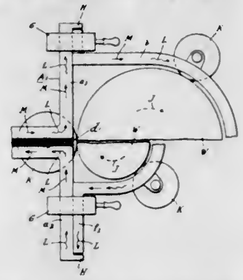
2,665,366
ELECTRIC AUTOMATIC STOCK AND CHICKEN WATERER
William F. Cleveland, Rock Falls, Ill.
Application March 20, 1951, Serial No. 216,600
1 Claim. (Cl. 219—38)

A device of the class described comprising an elongated housing having a bottom wall, opposed side walls and opposed end walls and open at the top, a trough mounted within the housing and spaced from said bottom wall, said side walls and said end walls, transverse partitions in said housing forming end walls for said trough, a water inlet pipe leading into said trough, electrical means for heating the water in said trough, a connector plug connected with said electrical means, said plug being adapted to be connected to an electric supply socket, said electrical means comprising a single length of heating wire, said device having opposed longitudinal rods sup-



ported between said partitions and positioned between the sides of the trough and the side walls of the housing close to but spaced from the outside upper edges of said trough, said wire being simultaneously trained about said rods and passed transversely around the outside surface of said trough to provide longitudinally spaced transverse loops.

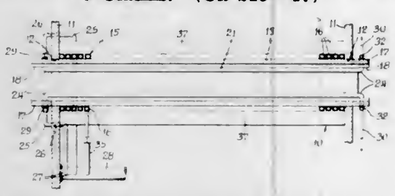
2,665,367
INDUCTOR FOR THE HEAT TREATMENT OF WORKPIECES, ESPECIALLY CRANKSHAFTS
Gerhard W. Seulen, Remscheid, Germany, assignor to Deutsche Edelstahlwerke Aktiengesellschaft, Krefeld, Germany, a corporation of Germany
Application June 8, 1949, Serial No. 97,847
Claims priority, application Great Britain June 18, 1948
10 Claims. (Cl. 219—47)



1. An inductor device for heat treating work pieces, in particular crank shafts, comprising an inductor base member having two conductive rails rigidly joined with each other, each of said rails being of generally angular shape and having two angle legs of which one extends parallel and adjacent to the corresponding leg of the other rail, insulation disposed between said parallel legs for electrically insulating said rails from each other, said two other legs of said respective rails being serially arranged with respect to each other and forming together a substantially continuous surface facing the work piece when the device is in operative condition, and said other legs having respective end flanges remote from each other, an arcuate member having a heating conductor portion of substantially horseshoe-shaped axial elevation and having two ends angularly and outwardly projecting from said conductor portion in a plane parallel to that of the horseshoe shape, said ends being in contact engagement with said respective flanges when said device is in said condition, said arcuate member forming in series with said two other legs of said respective rails a closed loop around the work-piece axis in said condition, said loop having a loop opening of larger size than the cross section of the work piece to be treated and

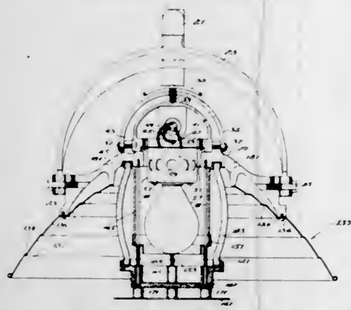
of an irregular shape compared with a circle, and releasable fastening means connecting said respective ends with said flanges to permit exchanging the arcuate member.

2,665,368
INDUCTION HEATING UNIT
Norman J. Cutliff and Emmett V. Brogan, Louisville, Ky., assignors to International Harvester Company, a corporation of New Jersey
Application April 12, 1952, Serial No. 281,992
9 Claims. (Cl. 219—47)



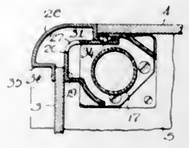
8. An induction heating unit comprising a pair of longitudinally spaced parallel supports, an integral refractory tube supported on said supports, a hollow induction coil encircling said refractory tube, a pair of laterally spaced tubular track sections supported on the inner cylindrical surface of said tube and projecting therefrom to provide a continuous track section disposed throughout its length in spaced relation from the inner peripheral surface of said tube, for supporting an article to be heated, tubular end portions on each end of each track section, means for removably connecting said track sections with respect to said refractory tube comprising inlet and outlet conduits, inlet fittings connecting the inlet conduits to the end portions of the track sections at one end, and outlet fittings connecting the outlet conduits to the end portions of the track sections at the other ends of said track sections, and means for supplying a coolant liquid to said track sections.

2,665,369
EXPLOSION-PROOF LIGHT HAVING A PRESSURE RELIEVING POROUS ELEMENT
Ernest H. Greppin, Rochester, N. Y., assignor to Wilmot Castle Company, Rochester, N. Y., a corporation of New York
Application April 8, 1949, Serial No. 86,207
7 Claims. (Cl. 240—1.4)



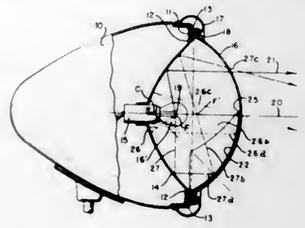
5. An electric lighting fixture for use in potentially explosive atmospheres, said fixture comprising a body having a central opening of sufficient clear diameter so that an incandescent electric bulb may pass through it, a removable cap for closing and tightly sealing said opening, an electric bulb socket mounted on and supported from said cap and faced forwardly so that a bulb placed in said socket will project forwardly within said body, a transparent globe of approximately cylindrical shape having its side walls substantially impervious to gas and having its rear end tightly sealed to said body in a substantially gas tight manner, a metal closure plate extending across and tightly sealed to the forward end of said globe to form a front closure for said globe, said metal plate having a multiplicity of minute pores therein sufficiently small to prevent free flow of air through the metal plate while allowing relief of pressure through said pores in the event of an explosion of the atmosphere within said globe, and an externally accessible retainer for retaining said cap in tightly closed relation to said body, so that when it is necessary to replace a burned-out bulb, said retainer may be released and said cap and socket may be moved rearwardly to obtain access to a bulb for replacement without disturbing said globe and metal plate.

2,665,370
COMBINATION REFLECTOR AND SHOWCASE FRAME MEMBER
Charles Kenneth Kurtzon, Chicago, Ill., assignor to Garden City Plating & Manufacturing Co., a corporation of Illinois
Application June 8, 1948, Serial No. 31,747
12 Claims. (Cl. 240—6)



2. A showcase comprising a front wall, top wall and two end walls, the forward edge of said top wall being spaced from the top edge of said front wall so as to leave a gap therebetween, plates permanently secured to said end walls, a light reflector having a plate permanently secured to each end, said last mentioned plates being each secured to one of said first mentioned plates, said reflector having its opposite longitudinal edge portions disposed within the showcase and an intermediate portion spanning said gap, and a cornice extending from the top edge of said front wall to the front edge of said top wall above said reflector, said cornice being removably secured to said reflector.

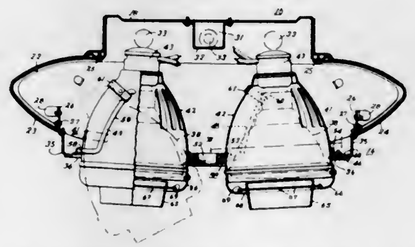
2,665,371
GLARE SHIELD ATTACHMENT FOR AUTOMOBILE HEADLIGHTS
Luther Edward Rynearson, Riverside, Calif.
Application July 5, 1949, Serial No. 103,077
1 Claim. (Cl. 240—46.01)



An anti-glare window attachment for a head light having a main parabolic reflector by which

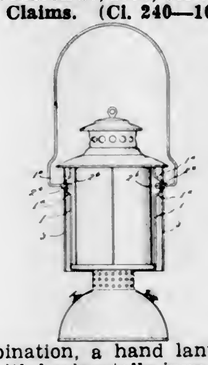
light rays emanating from its principal focus are projected toward the window as a beam of parallel rays, comprising: a member having a generally sector-shaped spherical concave reflecting surface bounded by side edges generally converging to form an apex portion at their contiguous ends, and a curved edge connecting the other ends of the side edges; and means for supporting said member with the apex portion of said reflecting surface extending over the beam axis and generally extending symmetrically therebelow into the rays of the lower part of the beam with said curved edge lying in a plane rearwardly of said apex portion at right angles to said beam axis, and at a distance forwardly of the main reflector such that the focus of the reflecting surface will be forward of said principal focus of the parabolic reflector; whereby the beam will be devoid of those parallel rays in that part of its lower portion intercepted by said member, and said intercepted rays will be redirected and again reflected in a non-glare forming direction at an angle to the rays normally constituting said beam.

2,665,372
INCANDESCENT SPOTLIGHT LUMINAIRE
Burton A. Wyman and Frederic C. Winkler, Cleveland, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 31, 1947, Serial No. 765,096
5 Claims. (Cl. 240—78)



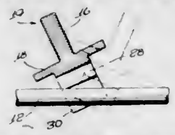
1. A spotlight luminaire comprising, a body member having a bottom portion with a circular opening therein, a sealed beam lamp, an inverted cup-shaped reflector housing including a lamp socket for supporting the lamp within the body member, a ring member rotatably mounted on the bottom portion of the body member around the edge of the bottom opening, means pivotally securing the reflector housing at one side to the ring member, the open end of the reflector housing extending through the ring member and bottom opening and being of a size to substantially fill the opening in said ring, and additional means adjustably securing the other side of the reflector housing to the other side of the ring member, whereby the ring member may be rotated to effect rotational adjustment of the reflector housing and the reflector housing itself rotated about its pivotal support in a plane at right angles to the plane of rotation of the ring member, the curvature of the walls of said cup-shaped reflector housing having a radius point in the plane of its pivotal rotation which substantially coincides with the pivot of said housing, whereby said housing and ring substantially fill said circular opening in the bottom portion of said body member for all operative positions of said housing.

2,665,373
REFLECTOR FOR HAND LANTERNS
William W. Rashke, Cleveland, Ohio
Application March 27, 1950, Serial No. 152,206
3 Claims. (Cl. 240—105)



3. In combination, a hand lantern having a bail handle with horizontally inwardly extending end portions attached at diametrically opposite points to the upper part of the body of the lantern for pivotal movement about a horizontal axis so as to permit raising the bail handle to upright position and lowering the same to idle position, and a light shield of substantially semi-cylindrical form, the edge portions of said light shield being provided with means for operative engagement with the pivotal end portions of said bail handle so as to support said light shield thereupon, and the end portions of said bail handle being provided with means co-operating with said light shield means so as to constitute a means of interconnection, operatable along a straight line, for effecting or releasing said operative engagement between said light shield and bail handle only when said bail handle occupies substantially horizontal position.

2,665,374
LAMP HARP
Kornel Berger, Kew Gardens, N. Y.
Application May 5, 1951, Serial No. 224,740
3 Claims. (Cl. 240—148)

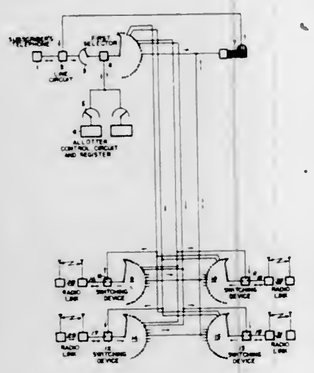


1. In combination, a lamp harp bail of round cross section and a swivel top including a member having two resilient legs extending downwardly from said member, said legs being spaced from each other producing thereby a slot, said slot having a width slightly less than and a depth in excess of the diameter of the bail, and means to retain a harp bail between said legs.

2,665,375
RADIO TELEPHONE SYSTEM
John Edward Collyer, Coventry, and Eric Playfair Fairbairn, Copsewood, Coventry, England, assignors to The General Electric Company Limited, London, England
Application September 9, 1949, Serial No. 114,754
Claims priority, application Great Britain September 9, 1948
5 Claims. (Cl. 250—6)

1. A telephone system in which calls are set up between subscribers connected to different ex-

changes via radio links used as bothway junctions and in which certain subscribers have priority facilities, comprising means for releasing at any stage in the setting up of a call all the radio links already employed in the setting up of the call, means for operating the releasing means operable in response to a busy condition encountered at any stage in the setting up of a call from an ordinary subscriber, means for preventing the



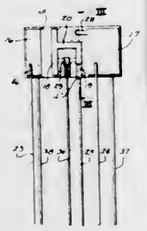
operation of the releasing means if a busy condition is encountered at any stage in the setting up of a call from a priority subscriber, means for transmitting to the priority subscriber an indication that a busy condition has been encountered, and means operable by the priority subscriber after he has received such an indication for connecting the priority subscriber to a subscriber whose call is causing the busy condition.

2,665,376

MULTIPLE ELECTRIC CAPACITOR

George T. Kodama, Milwaukee, Wis., assignor to Herlec Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application July 20, 1948, Serial No. 39,783
20 Claims. (Cl. 250—20)



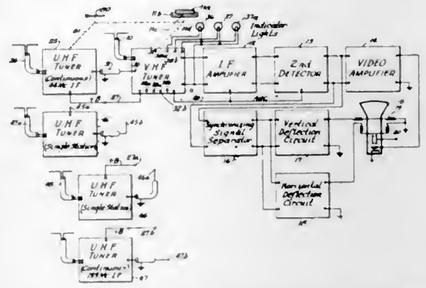
1. In a multi-capacitor unit for electric circuits, a dielectric sheet, a plurality of conductive coatings on opposite sides of the dielectric to co-act in forming a plurality of electrically independent capacitors, interconnected conductive coatings formed on opposite sides of the dielectric intermediate the capacitors shielding the capacitors from each other, and an additional conductive coating positioned adjacent the intermediate coatings and cooperating through said dielectric with one of said intermediate coatings to form another capacitor.

2,665,377

UNIVERSAL TUNING SYSTEM FOR TELEVISION RECEIVERS

James Edgar Krepps, Jr., Bloomington, Ind., assignor, by mesne assignments, to Sarkes Tarzian, Inc., Bloomington, Ind., a corporation of Indiana

Application December 20, 1951, Serial No. 262,619
23 Claims. (Cl. 250—20)



16. A V. H. F. television tuner, comprising first and second dual purpose signal translating stages and a local oscillator, station selector switch means having a plurality of V. H. F. station selecting positions and a U. H. F. tuner selecting position, a V. H. F. antenna input circuit, a signal input circuit responsive to signals of an intermediate frequency to be derived from a preceding U. H. F. tuner, means connecting the output of said local oscillator to said second stage, means including first circuit connections selectively adapted to be connected between said antenna input circuit and said first stage and between said first and second stages for causing said first stage to operate as a radio frequency amplifier for signals received from any one of a plurality of V. H. F. television stations and causing said second stage to convert signals amplified by said first stage into corresponding signals of said intermediate frequency, means including second circuit connections adapted to be connected between said signal input circuit and said first stage and between said first and second stages for causing both said first and second stages to operate as intermediate frequency amplifiers for signals of said intermediate frequency, said station selector switch means being operable in any one of said V. H. F. station selecting positions selectively to establish said first circuit connections in said V. H. F. tuner in operative circuit relation therein and to connect the input of said first stage to said V. H. F. antenna input circuit, and operable in said U. H. F. tuner position to establish said second circuit connections in said V. H. F. tuner in operative circuit relation therein, connect the input of said first stage to said signal input circuit in place of said V. H. F. antenna input circuit and prevent said local oscillator from generating oscillations.

2,665,378

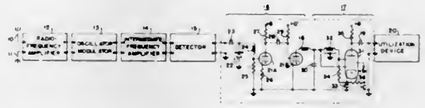
PULSE-SIGNAL TRANSLATING SYSTEM

Robert B. J. Brunn, Manhasset, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application March 26, 1949, Serial No. 83,658
17 Claims. (Cl. 250—27)

1. A pulse-signal translating system for translating applied desired pulses having a predetermined pulse duration and for discriminating against applied undesired pulses at least a portion of each of which has a pulse duration less than

said predetermined pulse duration comprising: a first repeater circuit including an input circuit responsive to said applied pulses and having a signal-stabilization network including circuit elements so proportioned as to cause the peaks of said applied pulses to be stabilized at the same potential for effecting translation of only a portion of the peak amplitude of each of said undesired pulses and the translation of at least a portion of the peak amplitude of each of said desired



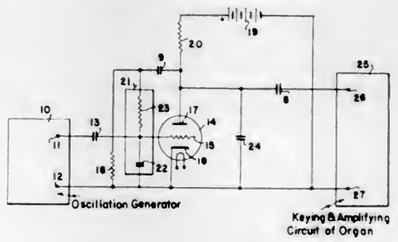
pulses through said first repeater circuit; and a second repeater circuit coupled to said first repeater circuit and including a control circuit for controlling the conductivity of said second repeater circuit said control circuit being responsive to said translated portions of said desired pulses for effecting translation of at least a part thereof through said second repeater while said control circuit is substantially unresponsive to the portion of said each of said undesired pulses translated by said first repeater.

2,665,379

FREQUENCY DIVIDER

George H. Hadden, Brattleboro, Vt., assignor to Minshall-Estey Organ, Inc., Brattleboro, Vt., a corporation of Vermont

Application September 8, 1950, Serial No. 183,866
9 Claims. (Cl. 250—27)



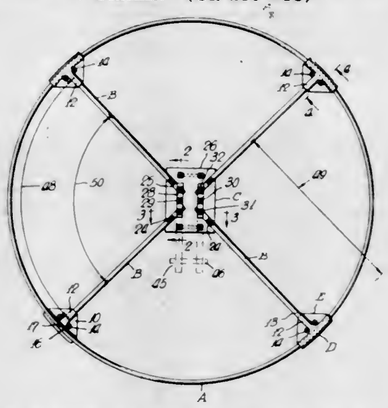
1. An apparatus for dividing the frequency supplied by a source of electrical oscillations comprising a source of electrical oscillations having a predetermined frequency, a non-linear amplifying device having an input circuit connected to said source and having an output circuit, means connected to the output circuit of said amplifying device for producing electrical variations having a complex waveform rich in harmonics and having a fundamental frequency that is equal to a multiple or submultiple of said predetermined frequency, a single-stage integrating network connected as an inverse feedback circuit in said amplifying device, between said output circuit and said input circuit, said network being adjusted to control the fundamental of said complex waveform variations at a frequency corresponding to a submultiple frequency of said predetermined frequency which submultiple frequency it is desired to generate, and an output load circuit for utilizing variations having said submultiple frequency.

2,665,380

AERIAL ARRANGEMENT

William F. Hickson, Clark Township, Union County, and William A. McGough, Woodridge, N. J., assignors to Circle X Antenna Corporation, Perth Amboy, N. J., a corporation of New Jersey

Application November 9, 1949, Serial No. 126,413
7 Claims. (Cl. 250—33)



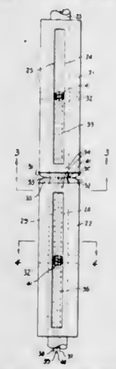
1. A shallow conical aerial arrangement for television and other reception comprising a central insulating base, a plurality of outwardly extending radial conductor elements and an outside circular conductor element connecting the ends of the radial elements, the diameter at the outside of the cone being substantially greater than the height of the cone and said elements being formed of metallic tubing and said circular element being positioned in a vertical plane and the length of the radial elements being substantially one-half of an average wave length.

2,665,381

SLOTTED CYLINDRICAL ANTENNA

Carl E. Smith, Cleveland, Ohio, and George Sinclair, Toronto, Ontario, Canada, assignors, by mesne assignments, of one-half to said Smith and one-half to United Broadcasting Company, a corporation of Ohio

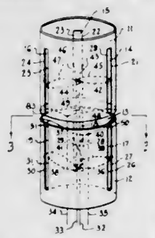
Application October 16, 1947, Serial No. 780,264
7 Claims. (Cl. 250—33)



1. A transducer for transferring electromagnetic wave energy between free space and an electrical device utilizing said electromagnetic waves, said transducer comprising electrically conducting conduit means, at least first and sec-

ond substantially parallel edges in said conduit means for defining slot means therein, said slot means having a narrow width relative to the length thereof, said slot means having a lengthwise dimension with a component aligned parallel to the axis of said conduit means, a single slot in said slot means having a lengthwise dimension with a transverse component extending substantially completely around said conduit means, at least part of said conduit means defining a single dielectric-filled cavity for said slot means and transmission line means connected across each slot in said slot means.

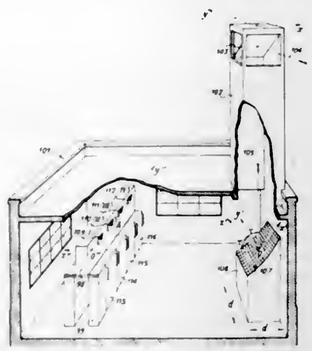
2,665,382
THREE SLOT CYLINDRICAL ANTENNA
Carl E. Smith, Cleveland, Ohio, and George Sinclair, Toronto, Ontario, Canada, assignors, by mesne assignments, of one-half to said Smith and one-half to United Broadcasting Company, a corporation of Ohio
Application October 16, 1947, Serial No. 780,265
7 Claims. (Cl. 250—33)



1. An antenna for circularly polarized electromagnetic waves of a given wave length with a substantially circular horizontal field intensity pattern, said antenna comprising electrically conducting conduit means, means for mounting said conduit means with the axis thereof in a vertical position, first and second substantially parallel edges in said conduit means for defining a first slot, third and fourth substantially parallel edges in said conduit means for defining a second slot, fifth and sixth substantially parallel edges in said conduit means for defining a third slot, said slots being substantially vertical and equally spaced on the periphery of said conduit means, each of said slots having a length at least equal to a half of said given wave length, seventh and eighth substantially parallel edges in said conduit means for defining a fourth slot extending about the periphery of said conduit means with said seventh and eighth edges lying in planes substantially normal to the axis of said conduit means, and transmission line means within the confines of said conduit means connected across the center of said first, second and third slots and connected across the edges of said fourth slot.

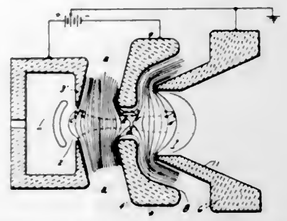
2,665,383
MICROWAVE DISPERSIVE MIRROR
Pierre G. Marlé, Paris, France
Application January 28, 1953, Serial No. 333,643
Claims priority, application France January 31, 1952
5 Claims. (Cl. 250—33.65)

1. A reflecting arrangement for dispersively reflecting an input electromagnetic wave energy having a large bandwidth divided in a plurality of communication channels and a common direction of incidence into a plurality of output waves having a small bandwidth corresponding to each channel and different directions of emergence comprising means for spraying the input wave energy onto the reflecting arrangement, a mirror comprising a continuous surface and conical slim horns bored in said surface, the dimensions of the bases of which are comprised between the wavelength and the half wavelength of the wave having the largest wavelength comprised in the energy to be reflected, and having a constant depth



along a first curvilineal line of rectangular coordinates drawn on said surface and a depth linearly variable along a second curvilineal line rectangular with the first one, and a plurality of collecting means aligned in a plane passing by the second curvilineal line of coordinates and respectively collecting the partial electromagnetic energies corresponding to the channels.

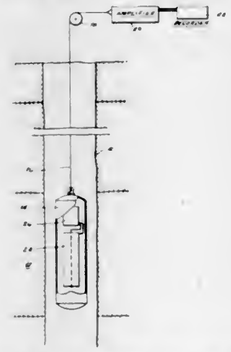
2,665,384
ION ACCELERATING AND FOCUSING SYSTEM
Hubert P. Yockey, Berkeley, Calif., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application July 18, 1950, Serial No. 174,548
5 Claims. (Cl. 250—41.9)



1. A system of accelerating and focusing electrodes for electromagnetically operated equipment for the separation of isotopes comprising an inner electrode adapted to the maintained at a high positive potential and having an opening for the passage of ions, an intermediate electrode spaced from the inner electrode and having an opening aligned with the opening in the inner electrode, said intermediate electrode being adapted to be maintained at a high negative potential for accelerating the ions passing through the inner electrode, and an outer electrode positioned in overlapping spaced relation with respect to the intermediate electrode, said outer electrode having an opening aligned with and of larger size than the opening in said intermediate electrode for the passage of ions and

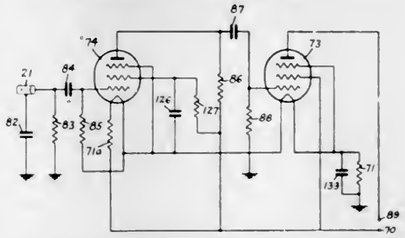
being adapted to be maintained at a potential intermediate that of said inner electrode and said intermediate electrode for decelerating said ions.

2,665,385
RADIOACTIVITY WELL LOGGING
Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application December 29, 1948, Serial No. 67,822
1 Claim. (Cl. 250—83)



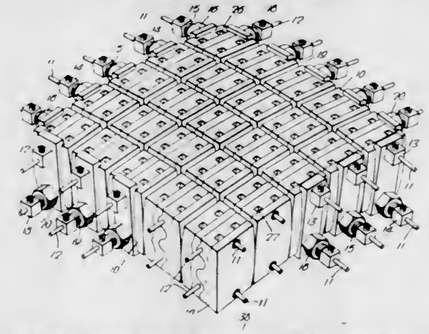
The method of distinguishing between a sand and a limestone formation traversed by a well bore hole which comprises bombarding said formation with neutrons from a source in said hole at a position opposite said formation for a period commensurate with the lifetime of radioactive limestone, moving the source to a second position remote from said first position so that said formation will be out of range of neutrons from the source and then, from said first position, measuring over a time of the same order as said period the intensity of any radioactivity induced in the formation by said previous bombardment to determine if the said intensity decreases during at least a portion of said measuring time according to a lifetime indicating that limestone was the substance made radioactive by said bombardment.

2,665,386
WELL RADIOACTIVITY LOGGING APPARATUS
Shelley Krasnow, Fairfax, Va., and Meyer Joseph Test, Kansas City, Mo., assignors to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware
Original application October 1, 1941, Serial No. 413,240. Divided and this application January 30, 1951, Serial No. 208,609
6 Claims. (Cl. 250—83.6)



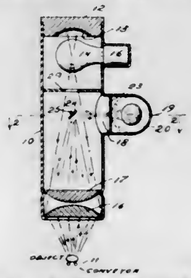
1. In radioactivity responsive apparatus for use in a bore hole, the combination of an enclosed cartridge adapted to be lowered into the bore hole, a low current consumption radioactivity responsive device in said cartridge comprising an envelope having anode means therein and cathode means, and a source of electrical energy consisting of an isolated, relatively high capacitance, low leakage loss condenser in the cartridge connected to the anode means and the cathode means of said device and adapted to be charged electrically for this purpose, and output means in said cartridge for furnishing signals indicative of the radioactivity detected by said device.

2,665,387
RAY DIRECTING DEVICE
John B. Bartow, Blue Bell, Pa., assignor to Bartow Beacons Inc., Blue Bell, Pa., a corporation of Pennsylvania
Application December 14, 1950, Serial No. 200,795
6 Claims. (Cl. 250—105)



1. A ray directing device for X-rays and the like, comprising an assembly of component block-like members in side-by-side relation, each of said members being composed of material which is non-transmissive to said rays, and each of said members comprising complemental sections or parts forming rectilinear passages for transmission of said rays, said sections being formed to provide ridges or shoulders in said passages to prevent transmission of secondary X-rays.

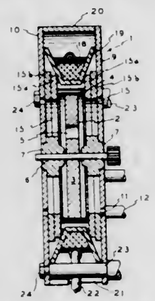
2,665,388
SCANNING MECHANISM FOR COLOR SORTING MACHINES
Everett H. Bickley, Penn Valley, Pa.
Application September 14, 1949, Serial No. 115,609
6 Claims. (Cl. 250—237)



1. A scanning mechanism for color sorting machines comprising a tube of opaque material for axial alinement with an inspection point for objects being fed across said point, an opaque closure for one end of said tube, a reflector on the inner face of said closure, a source of light juxtaposed to said reflector, means including a lens

closing the opposite end of said tube for focussing light rays from said source upon an object at said inspection point, an offset from a side of said tube forming a compartment opening into said tube between said source and said focussing means, a photo-cell in said compartment, and means in said tube alined with said photo-cell for reflecting light rays from said object into operative relation with said photo-cell.

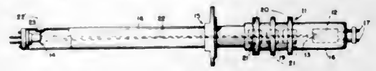
2,665,389
SYNCHRONOUS ELECTRIC CLOCK MOTOR
Francis J. Landgraf and Richard P. Landgraf, Chicago, Ill.
Application January 16, 1952, Serial No. 266,726
1 Claim. (Cl. 310—164)



In an electric motor of the self-starting single phase hysteresis type, a pair of flat disc shaped field plates, each of said plates having a plurality of pairs of integral projections bent in one direction at right angles to each of said plates, and at a fixed mean radius from the center of said plates, the projections of each of said plates all terminating in a common plane parallel with the plane of the field plates, a cylindrical rotor having a highly remanent rim, said rotor having a shaft coaxial therewith, bearings for said shaft fitted in central apertures of said field plates, a separate shading ring secured to each of said field plates and each force fitted over all the projections of its field plate, said shading rings having a greater outer radius and a smaller inner radius than the radius of said projections, a cylindrical field winding coaxial with said field plates, and having a uniformly tapered cross section, a correspondingly tapered cylindrical plastic support for said field winding, said support having an inner diameter equal to the outer diameter of said projections and retaining said annular fingers in annular relation and a width at the inner diameter substantially equal to the width of said rim, said support having a width at its outer diameter equal to the desired spacing of said field plates in the assembled condition of said motor, an enclosing metal ring located between said field plates, and means for holding said field plates together in clamping relation to said metal ring, to said support in its outer diameter, and to said shading rings and said support taken at a point along its taper.

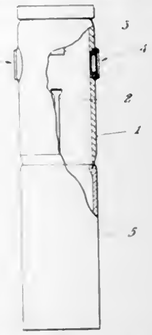
2,665,390
ANODE TARGET
Michael J. Zunick, Greenfield, and Howard W. Goodrick, Brookfield, Wis., assignors to General Electric Company, a corporation of New York
Application August 18, 1951, Serial No. 242,466
25 Claims. (Cl. 313—29)

1. An anode comprising a member providing a cavity having a wall of material substantially transparent to electrons and a metal in liquid



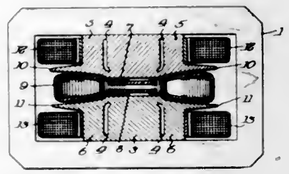
condition in said cavity and forming an electron target behind said wall.

2,665,391
X-RAY TUBE HAVING A MICA WINDOW
Jan Bleeksma, Mount Vernon, N. Y., assignor to Amperex Electronic Corporation, Brooklyn, N. Y.
Application March 4, 1950, Serial No. 147,739
5 Claims. (Cl. 313—59)



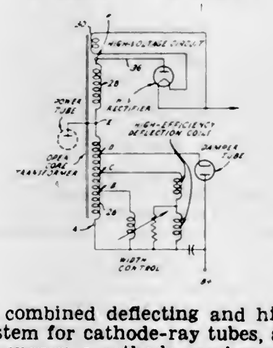
1. An X-ray tube comprising an evacuated envelope, cathode and anode electrodes, and a radiation permeable window in a wall portion of said envelope facing said anode, said window comprising a metallic window support powder-glass sealed into said envelope, a mica window seated in said support and powder-glass sealed thereto to provide a vacuum-tight seal for said mica disc, and a thin foil of radiation permeable metal secured to said envelope between said support and the anode of the tube to provide a conductive path for electrons striking the window.

2,665,392
MAGNETIC INDUCTION ACCELERATOR
Konrad Gund, Erlangen, Germany
Application October 28, 1950, Serial No. 192,733
Claims priority, application Germany October 31, 1949
6 Claims. (Cl. 313—62)



1. A magnetic induction accelerator for electrically charged particles comprising an annular tube providing therein a closed orbital path along which the particles are accelerated, a magnetic yoke, accelerating pole pieces magnetically coupled to said yoke forming a path for the magnetic flux of the acceleration field which extends centrally of said tube, magnetic guiding field poles projecting generally radially outwardly from said acceleration pole pieces forming outside of said tube on opposite sides thereof annular opposing inner surfaces defining an inner guiding field zone which embraces the equilibrium paths of said particles within said tube, and generally annularly extending magnetic pole shoes projecting generally radially outwardly from said guiding field poles forming outside of said tube on opposite sides thereof annular axially opposing inner surfaces defining an outer guiding field zone.

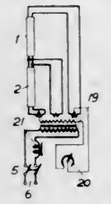
2,665,393
DEFLECTING AND HIGH VOLTAGE SUPPLY CIRCUIT
Carlo V. Bocciarelli, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application September 6, 1950, Serial No. 183,395
6 Claims. (Cl. 315—27)



1. In a combined deflecting and high-voltage supply system for cathode-ray tubes, a source of deflecting energy, a cathode-ray beam deflecting yoke and a circuit for rectifying a portion of said deflecting energy to provide a high potential for supplying the second anode of a cathode-ray tube, the energy required by said high-potential rectifying circuit constituting a relatively large fraction of the total energy supplied by said source to both said yoke and said rectifying circuit, and an open-core transformer having input terminals connected to said source and having output terminals connected respectively to said deflecting yoke and said rectifying circuit and serving as an energy transfer device supplying energy from said source to both said deflecting yoke and said rectifying circuit, the core of said transformer having an air gap sufficiently large to cause a portion of the total energy supplied by said source to be stored in the field surrounding said transformer, said portion being substantially equal to the portion of the total supplied energy which is required by said high-potential rectifying circuit.

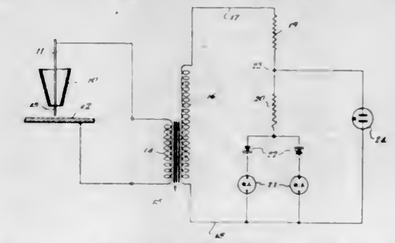
2,665,394
MEANS FOR CONTROLLING THE CANDLE POWER OF LUMINOUS TUBES
Algot Arvidsson, Saltsjobaden, Hugo Elmlund, Vasteras, and Georg Sonesson, Enskede, Sweden, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application June 20, 1950, Serial No. 169,114
Claims priority, application Sweden June 20, 1949
9 Claims. (Cl. 315—97)

1. A device for controlling the light output from luminous tubes equipped with hot cathodes, comprising in combination two series-connected luminous tubes, means for heating the filaments of said tubes, means for supplying discharge current to the tubes, an adjustable impedance element, means for adjusting the impedance of said element, said means for heating the filaments and said means for supplying discharge current being constituted by secondary windings on a



transformer common to both purposes, and an alternating current source, the primary of said transformer being connected to said alternating current source, and said adjustable impedance element being inserted in the tube circuit on the secondary of said transformer.

2,665,395
MEASURING CIRCUIT
Albert E. Feinberg, Chicago, Ill.
Application November 18, 1950, Serial No. 196,407
1 Claim. (Cl. 315—133)

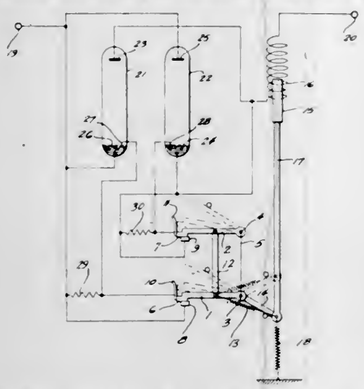


Apparatus for measuring the voltage across an A. C. electric arc appearing in a gap in both directions, the normal voltage across the gap in the absence of an arc being substantially greater than when said arc is extant, which comprises a a transformer connected to the gap for raising the voltage thereof, a voltage divider driven by the transformer and having an upper branch and a lower branch, the upper branch comprising an impedance, and the lower branch comprising an impedance in series with a pair of parallel connected galvanometers, each galvanometer having a rectifier in series therewith but in opposite direction whereby the meters read the flow of current through the voltage divider in opposite directions, a gaseous discharge device of predetermined ionization voltage connected across the said lower branch and inoperative when the arc is extant, but serving to ignite and discharge when the arc is extinguished thereby by-passing current which would otherwise flow through said galvanometers, the impedance of the upper branch serving to ballast the said gaseous discharge device when same is discharging.

2,665,396
CIRCUIT BREAKER
William J. Weinfurt, Wauwatosa, Wis., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware
Application November 2, 1951, Serial No. 254,609
4 Claims. (Cl. 317—11)

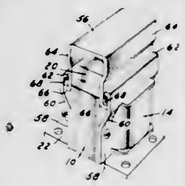
1. A circuit interrupter comprising switch means arranged for connection in a load circuit,

overload responsive means for operating said switch means, a pair of ignitrons connected in a reverse manner across said switch means and including ignitors, and normally inactive auxiliary circuits including resistors bridged across the



ignitor and cathode of the respective ignitrons and arranged to produce a voltage drop when placed in the load circuit, said switch means including means for placing said resistors in the the load circuit when said switch means is partially opened.

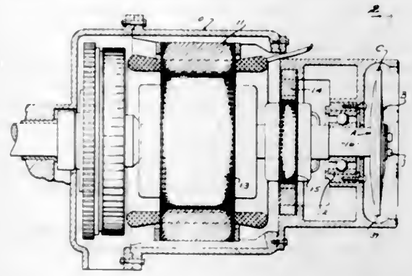
2,665,397
SOLENOID
Hollis W. Jencks, Detroit, Mich., assignor to Carlos C. Cleverdon, doing business as Detroit Coil Company, Detroit, Mich.
Application June 30, 1950, Serial No. 171,369
16 Claims. (Cl. 317—191)



16. In a solenoid having a hollow core and frame assembly, a solenoid plunger disposed within the hollow core and frame for reciprocation, a back stop plate extending across the path of movement of the plunger to be struck thereby at one end of the stroke of the plunger, stop means carried by the frame and overhanging the back stop plate, and resilient cushioning means interposed between said stop means of the frame and the back stop plate to resiliently resistingly yield to absorb the impact of the plunger against the back stop plate.

2,665,398
DRY PLATE TYPE RECTIFIER
Maurice W. Brainard, Los Angeles, Calif., assignor of one-half to O'Keefe & Merritt Company, Los Angeles, Calif., a corporation of California
Application April 9, 1951, Serial No. 220,019
24 Claims. (Cl. 317—234)

1. A rectifier adapted to be carried by a shaft including, a continuous base plate and a segmental base plate having a plurality of spaced sections, a rectifying element on each of said sections, spaced rectifying elements on the continuous plate, an electrical contact means electrically connecting together all the rectifying elements on said spaced sections, and means electrically connecting each of said sections with a

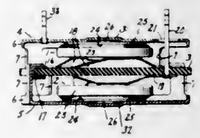


respective one of the rectifying elements on the continuous plate.

ERRATUM

For Class 317—234 see:
Patent No. 2,665,334

2,665,399
RECTIFIER ASSEMBLY
Fred J. Lingel, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application August 12, 1952, Serial No. 303,906
5 Claims. (Cl. 317—234)

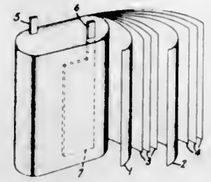


1. A rectifier assembly comprising a pair of enclosed rectifier units each including opposed conducting walls forming terminals of the unit, means for mounting said units and connecting them in series for conduction in the same direction including an insulating plate, a pair of cooling plates of conducting material secured in spaced relation on opposite sides of said insulating plate and each retaining one of said units between said cooling plates with a corresponding one of said terminals of said units electrically connected respectively with said cooling plates, a contact member interposed between the other terminal of one of said units and said insulating plate on one side thereof and connected with the cooling plate on the remote side of said insulating plate, a contact member interposed between the other side of said insulating plate and the remaining terminal of the other of said units and the terminal connected with said last-mentioned contact and extending through said insulating plate and through a clearance opening in the other of said cooling plates.

2,665,400
ELECTRIC CAPACITOR
Benjamin M. Walker, Lenox, Mass., assignor to General Electric Company, a corporation of New York
Application November 17, 1950, Serial No. 196,180
4 Claims. (Cl. 317—258)

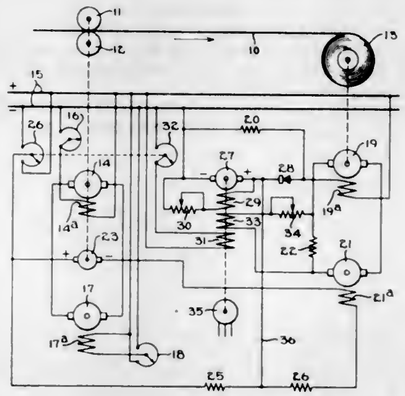
1. An electric capacitor comprising the combination of cooperating metal armatures and

interposed paper dielectric spacer, said combination including said spacer being impregnated with a solid resinous product obtained by the in situ copolymerization of a liquid mixture consisting mainly of about 45 to 65 per cent monomeric styrene, 25 to 55 per cent liquid poly-alpha-methyl styrene and from 0.5 to 10 per cent divinyl benzene, said liquid mixture having the property of polymerizing to a solid state without the formation of bubbles, cracks and voids in the solidified mass.



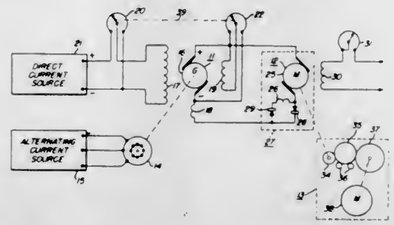
4. A dielectric material consisting essentially of the solid copolymerization product in relative proportions by weight of about 45 to 65 parts monomeric styrene, about 25 to 55 parts poly-alpha-methyl styrene having a viscosity of from 700–1000 centipoises at 60 deg. C., about one half to 10 parts divinyl benzene and about 0.1 to 2 parts of a polymerization catalyst, said solid copolymerization product being free of bubbles, cracks and voids.

2,665,401
CONTROL SYSTEM FOR ELECTRIC MOTORS
Eric Pell, Shorewood, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application July 19, 1951, Serial No. 237,544
8 Claims. (Cl. 318—7)



1. In combination, an electric motor, a generator having its armature connected in a loop circuit with the armature of said motor, a constant excitation voltage source in circuit with the field winding of said motor, a second motor, means in circuit with a field winding of said generator for supplying the latter with an excitation voltage proportional to the speed of said second motor, and a regulator comprising an exciter having a control field winding connected to be responsive to the armature current of the first mentioned motor, said exciter having its armature connected to the field winding of said first mentioned motor in bucking relation to said source, and also having its armature connected in circuit with the aforementioned field winding of said generator to supply the latter with an excitation voltage proportional to the output voltage of said exciter.

2,665,402
SPEED CONTROL CIRCUIT
John A. Clark, Cleveland, Ohio, assignor to The Reliance Electric and Engineering Company, a corporation of Ohio
Application August 22, 1951, Serial No. 243,059
18 Claims. (Cl. 318—140)



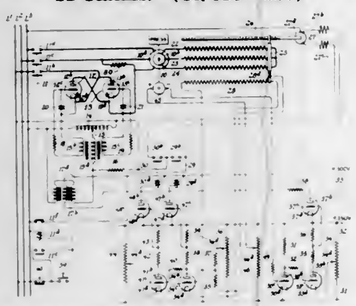
13. An electrical circuit, comprising first and second dynamoelectric machines each having an armature, means for establishing a reference field for each of said dynamoelectric machines, means for establishing a field for said first dynamoelectric machine in opposition to said reference field thereof, means for connecting in series said armatures, a field winding on said second dynamoelectric machine, and unidirectional current conducting means for energizing said field winding in response to the armature current and only cumulative to the reference field of said second dynamoelectric machine despite the direction of current through said armatures.

2,665,403
ELECTRIC MOTOR
Joseph M. Pestarini, Staten Island, N. Y.
Application December 15, 1950, Serial No. 200,959
8 Claims. (Cl. 318—165)



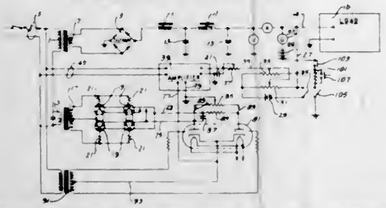
1. In combination, a polyphase alternating current motor comprising a pair of members having relative rotary movement, one of said members including a polyphase winding and the other member including a plurality of successively spaced groups of operative conductors, said groups of conductors being equiangularly displaced from one another and being equal in number to the number of poles of said polyphase winding, and means for supplying said polyphase winding with a system of sequential currents having substantially an intensity equal to the product of a constant, the sine of a first pulsation and the sine of a second pulsation different from the first pulsation, each current differing from a preceding current by an angular lag in one pulsation of said current proportional to the angular displacement of any pair of the successive polyphase windings.

2,665,404
UNBALANCED PRIMARY MOTOR CONTROL SYSTEM
William H. Elliot, Whitefish Bay, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application December 18, 1950, Serial No. 201,454
11 Claims. (Cl. 318—227)



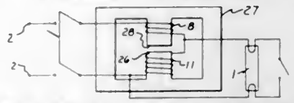
1. In a control system for an induction motor, in combination, a source of polyphase current, a motor having a polyphase primary winding including a plurality of terminals for connecting it to said source, regulable space discharge means interposed between said source and one of said primary terminals for controlling the connection of said single terminal to said source to effect a condition of unbalance in said primary winding, and an impedance device having a fixed impedance value directly correlated to the power rating of said motor and connected between said single terminal and one of the other of said terminals, to be rendered effective upon non-conduction of said space discharge means to vary further the condition of unbalance in said winding.

2,665,405
REGULATED LOW-VOLTAGE POWER SUPPLY
Rob R. Cyr, Los Angeles, Calif., assignor to The Regents of the University of California, Berkeley, Calif., a corporation of California
Application August 16, 1951, Serial No. 242,116
5 Claims. (Cl. 321—24)



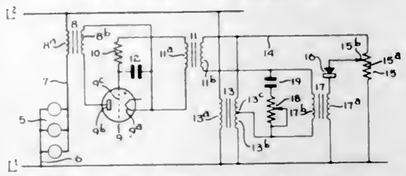
1. A regulated power supply for providing constant direct voltage from a varying voltage alternating source comprising a pair of transformers each comprising primary and secondary coils, a circuit for connection to said source including both of said primary coils in series, a rectifier connected to one of said secondary coils, and an output circuit connected to said rectifier; a load comprising at least one tube having a control grid connected to the other of said secondary coils, and means connected to said control grid for varying said load comprising a circuit derived from said output circuit, means in said derived circuit for comparing the voltage of said output circuit with a standard to provide an error voltage, means for amplifying said error voltage, and connections for applying the amplified voltage to said grid in such sense as to increase or decrease said load coordinately with decrease or increase of potential of said output circuit in comparison with said standard.

2,665,406
HIGH POWER FACTOR CURRENT LIMITER
Thomas Frazer Carmichael, Plymouth, Mich.
Application April 1, 1946, Serial No. 658,623
6 Claims. (Cl. 323—45)



1. A ballast for supplying an alternating current voltage to a load having negative resistance characteristics, comprising a plurality of magnetically coupled coils connected in series and constituting a primary winding, a magnetic core on which said coils are arranged so as to have leakage flux between them, the coils being adapted for connection across an alternating current source in such manner that their direction of winding is continuous around the core, and means adapted to connect said load between one end of said plurality of coils and the junction between two of them, the coil or coils across which the load is connectable constituting a secondary winding, coils of said primary winding having resistance and being spaced to produce leakage reactance and resistance of predetermined characteristics in said ballast, said leakage reactance and resistance having a constant to decreasing value with increases in the secondary current, said leakage reactance and resistance also being sufficiently large to decrease the ballast output voltage with increasing secondary current a sufficient amount to limit said secondary current.

2,665,407
PHASE-SHIFT CIRCUITS
William H. Elliot, Whitefish Bay, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application December 26, 1950, Serial No. 202,794
10 Claims. (Cl. 323—109)



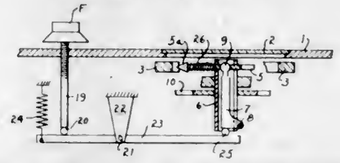
1. For supplying and effecting adjustment of the phase angle of a voltage applied to a control circuit, a network comprising a transformer having a primary winding to be supplied from an alternating current source and having a secondary winding with at least one intermediate tap, a saturable reactor, a second transformer having a primary winding in circuit with the secondary winding of the first mentioned transformer and the control winding of said reactor and having a secondary winding in circuit with one intermediate tap of the secondary winding of said first mentioned transformer and the alternating current windings of said reactor, a resistor connected in parallel with the secondary winding of said second transformer, a plurality of half-wave rectifiers, and a corresponding number of adjustable voltage dividers each of which has a resistance element connected in parallel with

the secondary winding of said first mentioned transformer and an adjusting element connected in series with an associated rectifier to the connection between the primary winding of said second transformer and the control winding of said reactor, said network being adjusted in accordance with the adjustment of the voltage divider whose adjusting element affords the highest signal voltage.

ERRATUM

For Class 324—14 see:
Patent No. 2,665,332

2,665,408
IGNITION SYSTEM ANALYZER
Ernst Hedinger, Schlieren, Switzerland, assignor to Joseph Weidenhoff, Incorporated, Algona, Iowa, a corporation of Illinois
Application February 23, 1951, Serial No. 212,328
7 Claims. (Cl. 324—17)



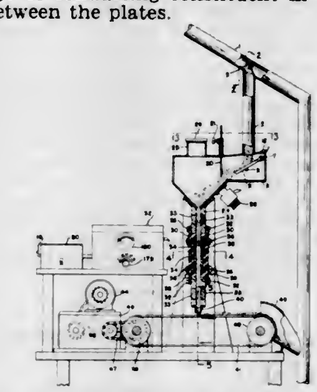
3. In a device for connection in the secondary of an ignition system, the combination of a first, annular electrode, a sleeve mounted concentrically and rotatably within the first electrode, means for rotating the sleeve, a second electrode slidably mounted in the sleeve for movement transversely thereof toward and away from said first electrode, means for adjusting the position of the second electrode relative to the sleeve and first electrode comprising, a bell crank having one arm disposed in the sleeve and connected with the second electrode, and the other arm pivotally mounted on said sleeve, and means for tilting said bell crank while said sleeve is rotating, said tilting means including a manually operable member and indicator means cooperating therewith for indicating the size of the gap between the electrodes.

ERRATUM

For Class 324—34 see:
Patent No. 2,665,333

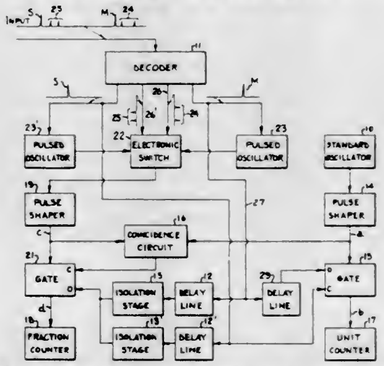
2,665,409
METHOD AND APPARATUS FOR DETERMINING MOISTURE CONTENT OR OTHER VARIABLES IN ORGANIC MATERIALS
Charles E. Rogers, Akron, Ohio, assignor to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey
Application August 30, 1950, Serial No. 182,303
27 Claims. (Cl. 324—61)

1. The method of measuring the percentage of conducting material contained in a fluent material while in a confined stream of constant volume and under a constant pressure head comprising the steps of passing said stream of material between the plates of a condenser, said condenser together with the material located therein constituting a part of the total capacitance of a high frequency system, the balance of the capacitance in said system being of a value to create a total capacitance within a selected, intermediate portion of the current-capacitance curve, and measuring the variations in capacitance caused by variations in the percentage of conducting constituent in the material between the plates.



4. Apparatus for testing fluent material in motion comprising a main conduit through which the material flows, a smaller and secondary conduit the mouth of which is located in the main conduit, a testing chute, means between the secondary conduit and the testing chute to supply a sufficient amount of the material to the testing chute to cause it to fill the testing chute with a constant volume of the material, a conveyer at the discharge end of the testing chute, means to operate the conveyer at a constant speed to maintain the material in the chute at a constant pressure head, condenser plates in the testing chute between which the material passes, and a radio frequency system comprising the condenser plates, and means to measure the capacitance of the condenser plates and the material between the condenser plates.

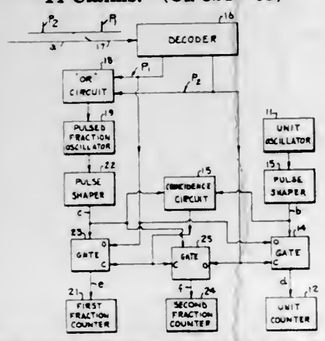
2,665,410
METHOD AND APPARATUS FOR AUTOMATICALLY MEASURING TIME INTERVALS
Donald W. Burbeck, Los Angeles, Calif., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application March 15, 1951, Serial No. 215,691
17 Claims. (Cl. 324—68)



1. Apparatus for measuring the time interval between a first and second signal, said apparatus comprising a continuously running generator for generating a first series of periodic signals, a pair of auxiliary generators for generating a second and third series of periodic signals, respectively, said pair of auxiliary generators

being actuable by the first and second signals, respectively, counting means coupled to said continuously running generator for producing an indication of the number of signals generated by said continuously running generator during the time interval to be measured, counting means coupled to one of said pair of auxiliary generators for producing an indication of the duration of the fractional time interval between the first signal and the initial signal generated by said continuously running generator during the time interval, and counting means coupled to the other of said pair of auxiliary generators for producing an indication of the duration of the fractional time interval between the second signal and the final signal generated by said continuously running generator during the time interval.

2,665,411
DOUBLE INTERPOLATION METHOD AND APPARATUS FOR MEASURING TIME INTERVALS
William E. Frady, Jr., Los Angeles, Calif., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application March 15, 1951, Serial No. 215,690
14 Claims. (Cl. 324—68)

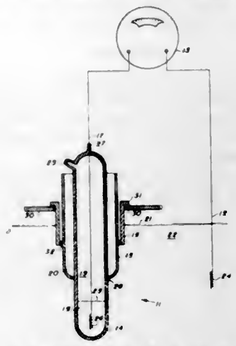


1. Apparatus for measuring the time interval between first and second signals spaced from each other, said apparatus comprising a continuously running generator for generating a first series of periodic signals, a vernier signal generator responsive to the first and second signals for generating a second and third series of periodic signals, respectively, the periods of said second and third signals being the same, means coupled to said continuously running generator for producing an indication of the number of signals of said first series occurring during the time interval to be measured, and counting means coupled to said vernier signal generator for producing an indication representative of the time interval between the first signal and the initial signal of said first series occurring during the time interval to be measured, and of the time interval between the second signal and the final signal of said first series occurring during the time interval to be measured.

2,665,412
ANALYSIS OF NONFERROUS ALLOYS
Harold J. Eding, Palo Alto, and Clarence I. Glassbrook, Hayward, Calif., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware
Application March 31, 1952, Serial No. 279,662
8 Claims. (Cl. 324—71)

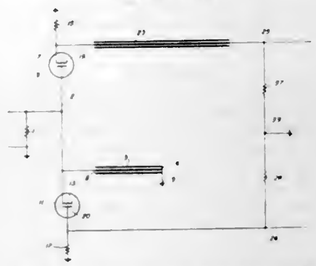
5. The process for analyzing a molten alloy of lead and sodium comprising immersing a molten specimen of sodium in a body of the alloy but separated therefrom by a barrier of borosilicate glass, electrically isolating the specimen of sodium from the surface of the alloy, establishing an electrical connection between the alloy and the sodium specimen to transmit the voltage developed between the alloy and the sodium, applying a constant suppression voltage to said developed voltage, and measuring the difference in voltage between the developed and suppression voltages.

6. A reference metal assembly for placing a specimen of reference metal within a body of molten alloy but electrically isolated from the



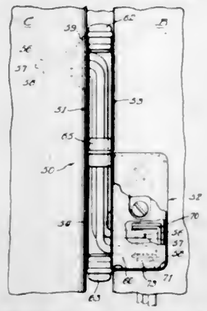
surface of the alloy comprising a capsule adapted for partial immersion in the alloy; a surrounding sleeve defining an annular space therewith and circumferentially sealed to the capsule to prevent entry of the alloy to the annular space; a molten reference metal specimen within said capsule; and an electrical conductor into the capsule and in electrical contact with the reference metal specimen; said conductor being electrically isolated from the molten alloy, and the capsule and the sleeve being of a dielectric vitreous material permeable to ions of a metal component of the alloy.

2,665,413
CONVERTING FROM AN UNBALANCED TO A BALANCED CIRCUIT
Abraham Hyman, New York, N. Y.
Application February 16, 1951, Serial No. 211,422
3 Claims. (Cl. 333—26)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In an electric circuit for converting an unbalanced pulse signal into equal and opposite push-pull signals, and input connected to two oppositely poled terminals of two rectifiers and to a closed end delay line, the other terminal of one rectifier being connected to a first output terminal through an open end delay line having an effective length twice that of the closed end delay line, the other terminal of said other rectifier being connected to a second output terminal.

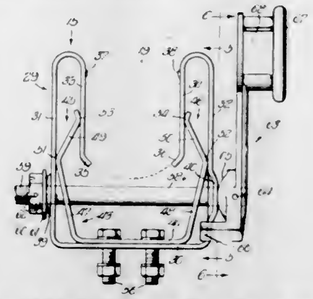
2,665,414
ELECTRICAL HINGE
Earl F. Hubacker and Fred L. Tarleton, Muskegon, Mich., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application November 12, 1949, Serial No. 126,818
1 Claim. (Cl. 339—4)



For a cabinet having a door hinged thereto, said cabinet and said door having at least one supporting hinge operatively associated therewith, means including continuous electrical conductors for distributing electrical current from said cabinet to said door, said means comprising a first bracket carried by said door and having portions thereof formed to define a tubular formation integral with said first bracket and adapted to contain said electrical conductors and disposed so that the axis thereof coincides with the axis of the support hinge of said door, a second bracket carried by said cabinet and disposed below and adjacent to said first bracket and having portions thereof formed to define a tubular formation integral with said second bracket and adapted to contain said electrical conductors and disposed so that the axis of the upper portions thereof of the tubular formation coincides both with the axis of the support hinge of the door and the axis of the tubular formation of said first bracket, means joining the lower end portion of said tubular formation of said first bracket and the upper end portion of said tubular formation of said second bracket, said tubular formations and said last-mentioned means being constructed and arranged to provide a complete enclosure for said continuous electrical conductors, clamp means disposed at the lower end portions of said second bracket and formed integral therewith to securely hold said electrical conductors, clamp means disposed at the upper end portions of said first bracket and formed integral therewith to securely hold said electrical conductors, and each of said clamp means being arranged so that the twist of the electrical conductors will be distributed over a relatively long area when the said door is opened and closed, thereby to prevent destruction of the electrical conductors due to bending and twisting at a concentrated point, said brackets and tubular formations being independent of the supporting hinge for said cabinet and door to allow assembly and disassembly independently thereof.

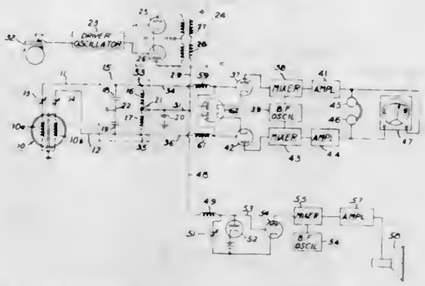
2,665,415
FUSE CLIP CONSTRUCTION
John J. Kojis, Chicago, Ill., assignor to S & C Electric Company, Chicago, Ill., a corporation of Delaware
Application August 9, 1950, Serial No. 178,537
5 Claims. (Cl. 339—259)

1. A contact assembly for gripping the opposite flat sides of a fuse tube ferrule comprising, in combination, a generally U-shaped fuse clip having a flat bottom and flat sides the outer end portions of which are turned inwardly generally parallel thereto for engaging said flat sides of said fuse tube ferrule, a generally U-shaped fuse clip spring nested with said fuse clip and having a flat bottom overlying and secured to the flat bottom thereof with flat sides extending between said flat sides of said fuse clip and said inturned outer end portions thereof, each flat side of said fuse clip spring being bowed outwardly with the outermost bowed portion bearing against the



inner side of the corresponding flat side of said fuse clip and acting to bias the same and said inturned outer end portions apart for receiving said fuse tube ferrule and the outer end bearing against the inner side of the corresponding inturned outer end portion of said fuse clip, and operating means for moving said flat sides of said fuse clip relatively toward each other against the biasing force of said fuse clip spring and through said outer ends thereof relatively moving said inturned outer end portions of said fuse clip into gripping engagement with said flat sides of said fuse tube ferrule.

2,665,416
APPARATUS FOR DETERMINING THE DIRECTION OF WAVE ENERGY
Oscar Hugo Schuck, Belmont, Mass.
Application August 15, 1944, Serial No. 549,523
13 Claims. (Cl. 340—6)



1. Apparatus for use in determining the direction of a source of wave energy comprising, a plurality of members constituting a two-section array capable of translating wave energy into electrical energy, a phase shifter permanently connected across said members to produce in combination with said two-section array two sensitivity lobes displaced equal amounts in opposite directions from the perpendicular axis of said array, a two-channel receiver connected across said phase shifter for simultaneous reception of wave energy in respective ones of said sensitivity

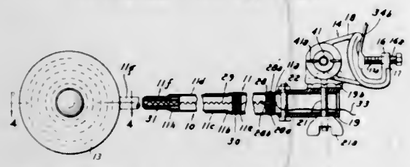
lobes, and a single channel receiver, the input to which is connected at the mid-point on said phase shifter.

2,665,417
CIRCUIT CONTROLLER
John J. Alles, Wilkes-Barre, Pa.
Application June 19, 1950, Serial No. 168,904
19 Claims. (Cl. 340—40)



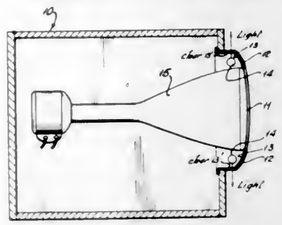
1. In a circuit controller, the combination comprising a controlled device having a plurality of sequentially operable means, an operator for said controlled device, timing means connectable with said operator, said timing means having a plurality of program operating means thereon, program selecting control means selecting any one of the programs on said timing means to be used, normally de-energized intelligence storing mechanism connected to said program selecting control means transferring stored intelligence thereto and operating the same to select the desired program, the transfer being only at predetermined times to select the desired program, and means transmitting intelligence to said intelligence storing mechanism.

2,665,418
WARNING LIGHT FOR VEHICLES
Raymond J. Miller, Detroit, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application December 7, 1950, Serial No. 199,603
12 Claims. (Cl. 340—146)



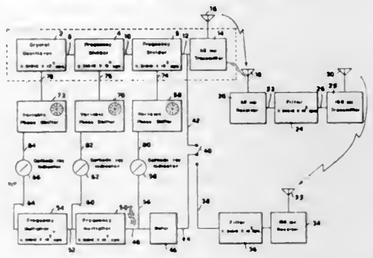
1. For use with a tractor having a trailed vehicle, a safety light comprising a hollow arm formed from a plurality of telescoping elements, a disc-shaped light diffusing lens including a light source mounted on one end of said arm, and means for mounting the other end of said arm on said tractor, said means permitting universal positioning of said arm, whereby said diffusing lens may be positioned beyond the extremities of said trailed vehicle.

2,665,419
TELEVISION RECEIVER
Millard E. Van Orden, Ithaca, N. Y.
Application January 23, 1952, Serial No. 267,861
1 Claim. (Cl. 340—369)



In a television receiver, the combination of a cabinet having a front face, a television picture tube having a viewing screen, said screen being located in front of said face of the cabinet, a light transmitting border frame around said screen, said frame having a translucent portion bordering said screen as viewed from the front, said translucent bordering portion being substantially parallel to the face of the cabinet and in front thereof, said border frame also having a relatively clear outer portion at substantially right angles to the translucent portion and extending backward to the front face of the cabinet so that the major portion of the light can be transmitted laterally and backward to fall upon the front face of the cabinet whereby the cabinet is clearly perceived in its true spatial relation to the picture, and electric light means disposed around the border of the viewing screen and in front of the face of the cabinet but behind the translucent portion of the border frame. said light means being in the angle between the translucent front portion of the border frame and the relatively clear outer portion of said frame so that light may fall backward on the face of the cabinet and forward thru the translucent front portion to the observer's eye.

2,665,420
RADIANT ENERGY SYSTEM FOR DISTANCE MEASURING
Alfred C. Winterhalter, Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application April 19, 1949, Serial No. 88,344
4 Claims. (Cl. 343—12)



1. A ranging system comprising a sending station and a receiving station, the sending station being provided with means for radiating to the receiving station a signal modulated at a single predetermined frequency and the receiving station being provided with means for radiating to the sending station a signal modulated at the first mentioned modulated frequency with the modulation of the last mentioned signal bearing a fixed phase relationship with the modulation of the first mentioned signal, means at the sending station to provide a set of signals of different frequencies bearing a predetermined frequency relationship to the first mentioned modulating frequency and in predetermined phase relationship with the modulation of the signal radiated from the sending station, means at the sending station responsive to the signal from the receiving station to provide a second set of signals of different frequencies equal to those of the first mentioned set of signals and bearing a predetermined phase relationship with the modulation of the signal received from the receiving station, and means for comparing the phase relationship of each pair of signals of the two sets having the same frequency.

DESIGNS

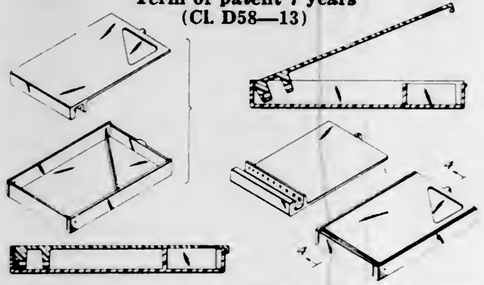
JANUARY 5, 1954

171,241
PITCHER OR SIMILAR ARTICLE
A Baker Barnhart, New York, N. Y.
Application April 22, 1953, Serial No. 24,628
Term of patent 7 years
(Cl. D44—21)



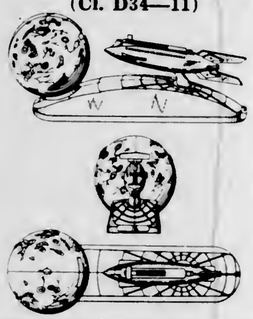
The ornamental design for a pitcher or similar article, as shown.

171,242
TOOLBOX
Gaston A. Belf and Arthur Lustig, New York, N. Y.
Application July 2, 1953, Serial No. 25,763
Term of patent 7 years
(Cl. D58—13)



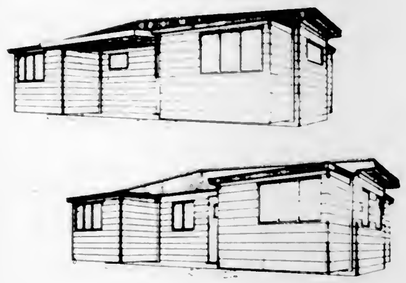
The ornamental design for a toolbox, as shown.

171,243
COIN BANK
Carl G. Bergman, Detroit, Mich.
Application June 15, 1953, Serial No. 25,509
Term of patent 7 years
(Cl. D34—11)



The ornamental design for a coin bank, as shown.

171,244
PORTABLE HOUSE
Carl V. Bergstrom, Santa Clara, Calif.
Application June 18, 1952, Serial No. 20,249
Term of patent 14 years
(Cl. D13—1)



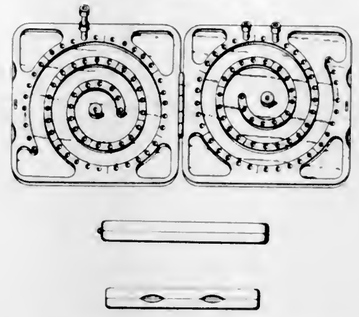
The ornamental design for a portable house, as shown and described.

171,245
SPOON OR SIMILAR ARTICLE OF FLATWARE
Bernard Bernstein, New York, N. Y., assignor to National Silver Company, New York, N. Y., a corporation of New York
Application February 18, 1953, Serial No. 23,683
Term of patent 14 years
(Cl. D54—12)



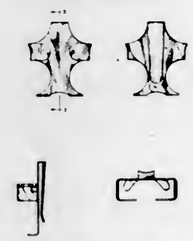
The ornamental design for a spoon or similar article of flatware, as shown and described.

171,246
CRIBBAGE BOARD OR SIMILAR ARTICLE
Alban J. Carlson, Sherman Oaks, Calif.
Application April 27, 1953, Serial No. 24,703
Term of patent 14 years
(Cl. D34—5)



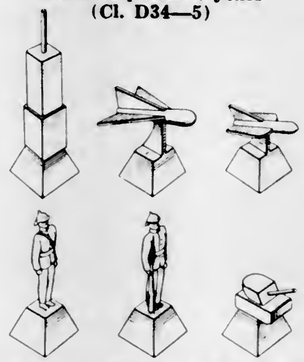
The ornamental design for a cribbage board or similar article, as shown and described.

171,247
CIGARETTE LIGHTER HOLDER
John Charnota, Chicago, Ill.
Application August 24, 1953, Serial No. 26,556
Term of patent 14 years
(Cl. D17—3)



The ornamental design for a cigarette lighter holder, substantially as shown.

171,248
SET OF CHESSMEN OR SIMILAR ARTICLE
Raymond P. Cimillo, Bronx, N. Y.
Application March 13, 1953, Serial No. 24,024
Term of patent 7 years
(Cl. D34—5)



The ornamental design for a set of chessmen or similar article, as shown.

171,249
COWL FOR A MOTORCYCLE FRONT WHEEL OR SIMILAR ARTICLE
Orley Ray Courtney, Pontiac, Mich.
Application March 16, 1953, Serial No. 24,047
Term of patent 14 years
(Cl. D90—8)



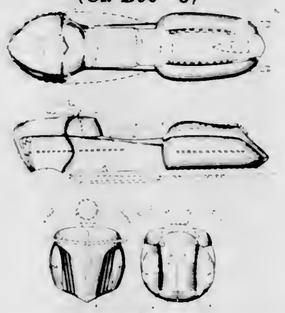
The ornamental design for a cowl for a motorcycle front wheel or similar article, as shown and described.

171,250
COWL FOR A MOTORCYCLE REAR WHEEL OR SIMILAR ARTICLE
Orley Ray Courtney, Pontiac, Mich.
Application March 16, 1953, Serial No. 24,048
Term of patent 14 years
(Cl. D90—8)



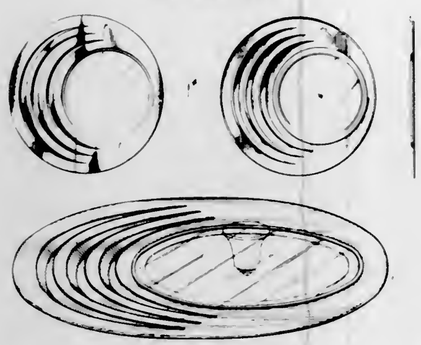
The ornamental design for a cowl for a motorcycle rear wheel or similar article, as shown and described.

171,251
MOTORCYCLE BODY
Orley Ray Courtney, Pontiac, Mich.
Application March 16, 1953, Serial No. 24,049
Term of patent 14 years
(Cl. D90—8)



The ornamental design for a motorcycle body, as shown and described.

171,252
UTENSIL LID
Natalie de Lebecque, Beverly Hills, Calif.
Application August 1, 1952, Serial No. 20,874
Term of patent 14 years
(Cl. D44—15)



The ornamental design for a utensil lid, substantially as shown and described.

171,253
STOCKING
Otto C. Gehring, Montgomeryville, Pa.
Application May 1, 1952, Serial No. 19,555
Term of patent 14 years
(Cl. D47—7)



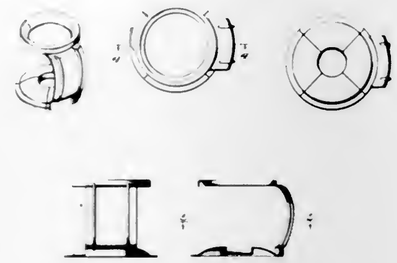
The ornamental design for a stocking, as shown.

171,254
STOCKING
Otto C. Gehring, Montgomeryville, Pa., assignor to Lexington Hosiery Company, Inc., Hatfield, Pa., a corporation of Pennsylvania
Application June 24, 1952, Serial No. 20,333
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, as shown.

171,255
INSECTICIDE VAPORIZER
Charles F. Holbrook, Harlingen, Tex.
Application July 13, 1953, Serial No. 25,902
Term of patent 7 years
(Cl. D31—3)

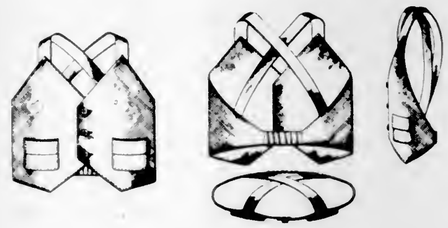


The ornamental design for an insecticide vaporizer, as shown.

171,256
WATER SHOOTING TOY GUN
Richard E. Hopkins, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application June 10, 1953, Serial No. 25,425
Term of patent 7 years
(Cl. D34—15)

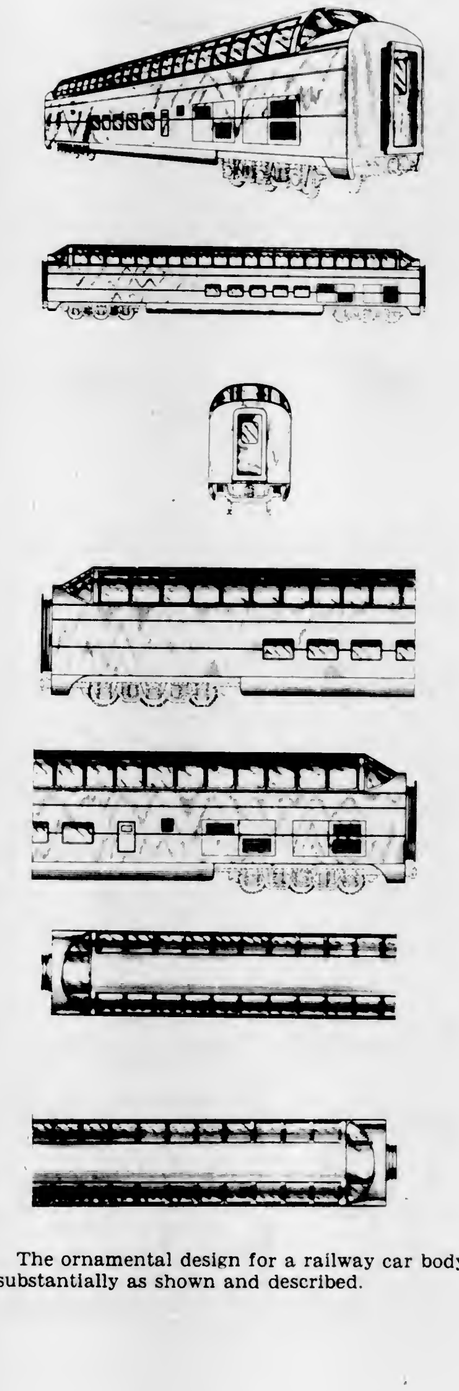
The ornamental design for a water shooting toy gun, substantially as shown.

171,257
WAISTCOAT
Eleanor Kairalla, New York, N. Y.
Application March 8, 1952, Serial No. 18,827
Term of patent 14 years
(Cl. D3—4)



The ornamental design for a waistcoat, as shown.

171,258
RAILWAY CAR BODY
Stanley W. Kay, Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application April 29, 1952, Serial No. 19,516
Term of patent 14 years
(Cl. D66—1)



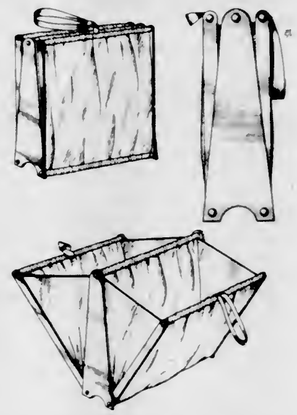
The ornamental design for a railway car body, substantially as shown and described.

171,259
GLOVE
Bert Kennedy, Johnstown, N. Y.
Application March 18, 1953, Serial No. 24,090
Term of patent 14 years
(Cl. D3—11)



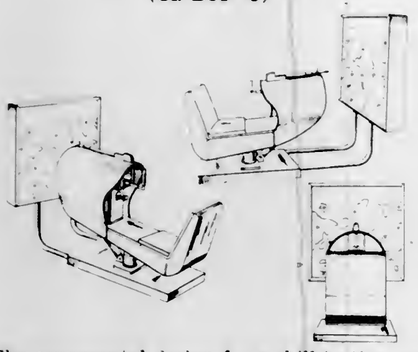
The ornamental design for a glove, substantially as shown.

171,260
KNITTING BAG OR SIMILAR ARTICLE
Harry Kittner, New York, N. Y., assignor to David Traum Company, Inc., a corporation of New York
Application January 22, 1953, Serial No. 23,251
Term of patent 7 years
(Cl. D3—19)



The ornamental design for a knitting bag or similar article, substantially as shown.

171,261
SKILL TESTING GAME DEVICE
Jerry C. Koci, Barrington, Ill., assignor to Chicago Coin Machine Co., Chicago, Ill., a corporation of Illinois
Application July 8, 1953, Serial No. 25,845
Term of patent 3½ years
(Cl. D34—5)



The ornamental design for a skill testing game device, as shown.

171,262
DRAWING INSTRUMENT
Georg Lotter, Neustadt Aisch, Germany
Application September 24, 1952, Serial No. 21,565
Term of patent 14 years
(Cl. D52—1)



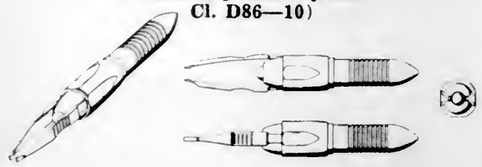
The ornamental design for a drawing instrument, as shown.

171,263
SPECTACLE HOLDER
Oscar L. Newlin, Wichita, Kans.
Application March 6, 1953, Serial No. 23,932
Term of patent 7 years
(Cl. D17—12)



The ornamental design for a spectacle holder, as shown and described.

171,264
ILLUMINATED TWEEZERS
Ulman B. Peterson, Pasadena, and Warren A. Johnson, Arcadia, Calif.
Application September 3, 1953, Serial No. 26,696
Term of patent 7 years
Cl. D86—10)



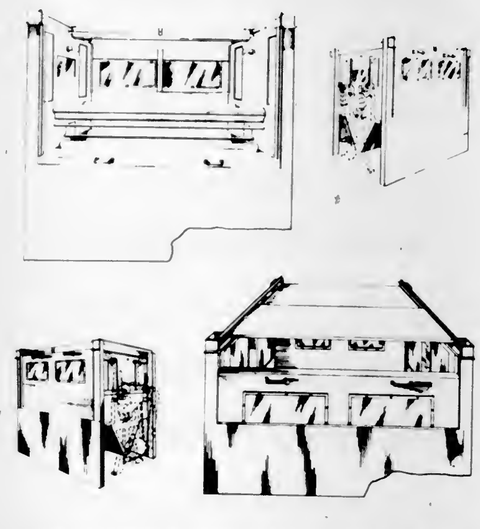
The ornamental design for illuminated tweezers, as shown.

171,265
CHAIR
Richard M. Phillips, East Peoria, Ill.
Application April 13, 1953, Serial No. 24,481
Term of patent 14 years
(Cl. D15—8)



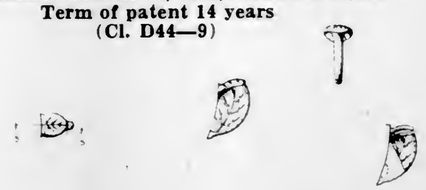
The ornamental design for a chair, as shown.

171,266
DYEING JIG
Werner P. Rose, Oakland, and Alfred R. Gessinger, Ridgewood, N. J.
Application September 21, 1953, Serial No. 26,887
Term of patent 14 years
(Cl. D55—1)



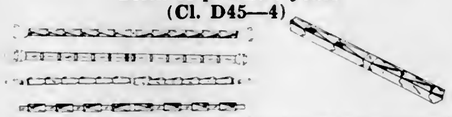
The ornamental design for a dyeing jig, substantially as shown and described.

171,267
CUP
Walter F. Rothe, Washington, D. C.
Application November 15, 1952, Serial No. 22,304
Term of patent 14 years
(Cl. D44—9)



The ornamental design for a cup, as shown and described.

171,268
EXPANSIBLE WRIST WATCH BRACELET
John F. Sand, Newark, N. J., assignor to Gemex Company, Union, N. J., a corporation of New Jersey
Application July 31, 1953, Serial No. 26,209
Term of patent 7 years
(Cl. D45—4)



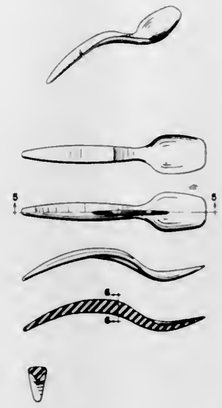
The ornamental design for an expansible wrist watch bracelet, substantially as shown and described.

171,269
BOTTLE
Ernst A. Spuehler, Elgin, Ill.
Application January 28, 1953, Serial No. 23,332
Term of patent 14 years
(Cl. D58—6)



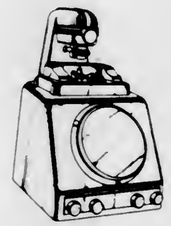
The ornamental design for a bottle, as shown.

171,270
INFANT'S SPOON
Robert M. Sweeney, Salisbury, Mo.
Application April 14, 1953, Serial No. 24,484
Term of patent 14 years
(Cl. D44—29)



The ornamental design for an infant's spoon, as shown.

171,271
PROJECTION MICROSCOPE
Domenico Trossi, Torino, Italy
Application December 8, 1952, Serial No. 22,593
Term of patent 14 years
(Cl. D57—7)



The ornamental design for a projection microscope, as shown.

January 12, 1954 Volume 678 Number 2

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business December 18, 1953

Total number of patent applications awaiting action, 105,303. Date of oldest new application, February 6, 1953; date of oldest amended application, February 18, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	3-20-53	3-23-53	1371
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	3-24-53	3-23-53	1250
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Compositions (part).	4-14-53	4-13-53	1994
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	3-25-53	3-26-53	1570
5. ROBINSON, C. W., Harvesters; Harrows and Diggers (part); Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates.	3-31-53	3-30-53	1391
6. SURLE, H., Natural Resins; Proteins; Heterocyclic; Amides; Amines; General Organic Processes	2-20-53	2-19-53	2148
7. GONSALVES, J. E., Optics; Photography (part)	3-4-53	3-4-53	1893
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	4-21-53	4-21-53	1453
9. BRANSON, J. H., Pumps; Fans; Turbines	3-18-53	3-18-53	1234
10. Abolished as of November 16, 1953. See Commissioner's Administrative Order No. 45.			
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	4-3-53	4-13-53	1221
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches; Interrelated Clutch and Motor or Transmission Controls.	3-30-53	3-20-53	1827
13. BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part)—e. g. Special Work, Forging and Welding, Plastic Working, Drawing, Sawing, Milling, Planing, Turning.	3-18-53	3-18-53	1289
14. MANIAN, J. C., Metal Working (part)—e. g. Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes.	4-7-53	4-1-53	1513
15. BRINDISI, M. V., Plastics; Plastic Block and Earthernware Apparatus; Glass	3-20-53	3-24-53	1765
16. LOVEWELL, N. N., Television; Telephony; Recorders	2-20-53	2-24-53	1820
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	3-23-53	3-18-53	1444
18. KURZ, J. A., Power Plants; Speed Responsive Devices; Brakes	3-19-53	3-23-53	1383
19. PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners	3-6-53	3-3-53	1100
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking.	4-15-53	4-15-53	1218
21. MADER, R. C., Textiles	3-25-53	3-30-53	1261
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling.	4-3-53	4-3-53	1177
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	3-10-53	3-2-53	1042
24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	5-25-53	6-3-53	1017
25. NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus.	4-1-53	3-23-53	1470
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	4-3-53	4-3-53	1968
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	4-8-53	4-13-53	1271
28. BRAUNER, R. H., Steam and Internal Combustion Engines; Fluid ServoMotors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes.	4-13-53	4-2-53	1396
29. HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers.	3-30-53	4-1-53	1322
30. BISHOFF, A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidostats; Illuminating Burners; Doors and Windows; Fluid Sprinkling, Spraying and Diffusing.	6-1-53	6-1-53	1477
31. HUTCHINSON, E. W., Mineral Oils; Urea Adducts; Silicon Containing Carbon Compounds; hydrogenation of Carbon Oxides; Partial Oxidation of Non-Aromatic Carbon Mixtures.	3-16-53	3-12-53	1843
32. BERMAN, H., Gas and Liquid Carburetors; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.	4-16-53	4-15-53	1426
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	3-16-53	3-16-53	2015
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	3-9-53	3-9-53	1336
35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet; Kitchen and Table Articles	3-25-53	3-24-53	1449
36. McFADYEN, A. D., Measuring and Testing	4-1-53	4-8-53	1072
37. LEVY, M. L., Electricity-Switches, Welding, Heating	4-23-53	4-20-53	1776
38. MARMELSTEIN, N., Lignins; Azo; Carbohydrate; Carbocyclic or Acyclic Compounds (part), e. g. Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Hydroxy.	3-18-53	3-18-53	2071
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	4-20-53	4-20-53	1555
40. DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages	5-4-53	5-4-53	2141

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Oldest new application and oldest action by applicant awaiting Office action: Amended	Applications awaiting action
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	4-3-53	4-7-53	1758
42. MARANS H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Connectors.	3-19-53	3-23-53	1712
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	3-9-53	3-16-53	1957
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	4-7-53	4-6-53	1296
46. O'LEARY, R A., Abolished as of January 4, 1954. See Commissioner's Administrative Order No. 46 (O. G.).	3-13-53	3-13-53	1183
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	4-3-53	3-30-53	1576
48. BERNSTEIN, S., Electricity; Electrical Conversion Systems, Measuring and Testing (part), Ignitors, Adjustable Induction Devices.	3-9-53	3-10-53	1865
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	3-30-53	3-24-53	1440
50. BENGEL, W. G., Synthetic Resins; Rubber	5-18-53	5-18-53	2050
51. YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Duplex or Multiplex Radio Communication; Piezoelectric Crystal Devices; Music.	4-6-53	4-2-53	1563
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	4-28-53	4-27-53	1923
53. REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Metal Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.	4-2-53	4-2-53	1629
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits, Ray Energy Applications.	3-30-53	3-26-53	1936
55. KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors.	3-2-53	3-2-53	1671
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	4-30-53	4-30-53	1394
57. MILLER, A. B., (DURHAM, B. G., Acting), Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	4-20-53	4-8-53	1754
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	3-20-53	3-23-53	1354
59. HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	3-23-53	3-23-53	1531
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	5-4-53	5-25-53	919
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	4-13-53	4-9-53	1860
63. WINKELSTEIN, A. H., Foods and Beverages; Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part).	3-13-53	3-11-53	2019
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	4-1-53	3-30-53	1778
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, L., Geometric Instruments; Automatic Weighers; Weighing Scales; Acoustics	4-14-53	4-6-53	1106
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	4-2 53	4-8-53	1671
68. Abolished as of November 2, 1953. See Commissioner's Administrative Order No. 44.			
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Electrical Conductors, Insulators and Conduits.	3-30-53	3-25-53	1650
70. BREWRINK, J. L., Guns and Torpedoes; Explosive Charge Making; Electrical Directional and Distance Instruments; Radio Antennae; Radar; Actinide Compounds; Explosive Compositions; Mass Spectrometers.	2-6-53	2-18-53	3675
DESIGNS: A—BREHM, G. L., Industrial Arts	7-2-53	7-6-53	1177
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	8-5-53	8-24-53	887

Number of new applications received week ending November 27, 1953

PATENTS 1,382. DESIGNS 125. REISSUES 0. TOTAL 1,507.

Total number of trade-mark applications awaiting action (including renewals and republications), 12,339.
Date of oldest new application, July 18, 1953; date of oldest amended application, July 11, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Oldest new application and oldest action by applicant awaiting Office action: Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	7-21-53	7-21-53	2983
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	7-18-53	7-18-53	3033
Renewals (All Classes)	10-9-53	11-18-53	469
Republications (All Classes)	10-15-53	11-18-53	258
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	7-22-53	7-20-53	2703
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	7-20-53	7-11-53	2893

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE BUCKENDALE

No. 5961. Decided June 17, 1953. Petition for rehearing denied September 28, 1953

[206 F.2d 937; 99 USPQ 119]

PATENTABILITY—PARTICULAR SUBJECT MATTER—TUBULAR AXLE BEAM.

A certain claim to a tubular axle beam *Held* properly rejected as unpatentable over the cited prior art.

APPEAL from the Patent Office. Serial No. 565,109.

AFFIRMED.

Strauch & Hoffman by *Strauch, Nolan & Diggins* (*William A. Strauch* and *James E. Nolan* of counsel) for appellant.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

WORLEY, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Examiner finally rejecting as unpatentable over the prior art, claim 17 in appellant's application for a patent for "Tubular Axle Beams." Claims 4, 7, and 19 to 22, inclusive, were allowed:

The rejected claim reads:

17. In a tubular axle beam of generally rectangular cross-section and substantially constant width throughout its length and comprising upper and lower channeled members joined throughout their length along parallel straight edges at opposite sides of the beam, said beam having parallel straight side walls of substantially uniform thickness throughout the length of said beam, flat top and bottom walls at opposite end portions of said beam to provide for attachment of vehicle springs, and stoved substantially squared corners at the junctions of said side walls with said top and bottom walls, said corners being materially thicker in metal section than said walls for strengthening said end portions against torque reactions transmitted through said springs.

The prior art references are Dehn (British), 289,684, May 3, 1928, Mogford et al., 1,899,347, February 28, 1933.

Appellant describes his invention in the following language:

• • • Each of the two substantially identical channel members is forged from a sheet metal blank of uniform thickness, the first operation being to form the blank into the rectangular channel shape, and the next operation being to stove the channel at least at its end portions, which redistributes metal from the channel walls into the squared corners that become thicker than the walls and contain densified compacted metal. During the stoving operation the channel is confined in a square cornered die assembly with its upper side edges exposed to pressure from a coacting die that pushes down on the channel side walls and forces the channel into the shape of the die. This term "stoved" was deliberately chosen to define the structure of the beam corners since it accurately recites the structure resulting from the only manner known to applicant of obtaining his special thickened compacted metal corners. During these operations the proper beam length is maintained and the longitudinal side wall edges are maintained straight, so that in mass production any two forged channel members may be welded together along those straight lines, the finished structure being a unitary hollow beam. • • •

It is alleged by appellant that the result is "a new construction which is not disclosed in the prior art, which is lighter in weight but provides equivalent strength with attendant savings in the metal and cost of manufacturing, and which is particularly adapted to modern vehicles and manufacturing methods."

While it is clear that invention is present in the six claims allowed by the Patent Office, the dispute below, as well as here, is whether the limitations disclosed in claim 17 are already met by the prior art.

The claim was rejected by both the Examiner and the Board of Appeals on the references cited above, although the Board was of the opinion that it could properly have been rejected on the Dehn patent alone.

The issue before us is whether the Patent Office erred, as contended by appellant, in rejecting the involved claim on the references cited.

The patent to Mogford et al. relates to a tubular axle which is first fashioned as a straight axle beam and subsequently converted into a bowed shape.

The patent to Dehn likewise relates to tubular axles and discloses a bowed beam of generally rectangular cross-section with thickened corners. The beam is made with similar channels joined on the opposite sides. All of such construction reads on the involved claim.

The Examiner properly held that Dehn, in view of Mogford et al., clearly met the straight axle feature of appellant's structure.

Appellant contends that the feature of side walls of substantially uniform thickness discloses a patentable feature over Dehn. The Examiner was of the opinion that such feature was merely a change of shape or form which produced no new or unobvious result and that no invention was there present. Indeed, from our interpretation of the drawings in the Dehn patent, the walls of appellant's device are clearly disclosed by that reference.

Vol. 678 • No. 2 Tuesday, January 12, 1954 Price $30.00 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $30.00 per annum, foreign mailing $8.50 additional; single numbers, 75 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

The TRADE-MARK SUPPLEMENT to the OFFICIAL GAZETTE, issued weekly, subscription price, $19.00 per annum; single copies, 45 cents each. DECISION LEAFLETS, subscription price, $3.75 per year; single copies, 10 cents each.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

Another feature stressed by appellant is the "stoved" and thickened corners of his axle. The Examiner held that such a feature would not patentably distinguish from the corners of the Dehn structure, and that the limitation expressed in the claim that appellant's corners are "stoved" was too broad to distinguish over the corners of Dehn.

The Board stated in that connection it was not "impressed with the limitation in the claim that the thickened square corners are obtained by a stoving action." The purpose of the thickened corners, as set out in the specification, is to provide for spring seats "of adequate characteristics." It seems to us, as it did to the Board, that since the Dehn device also has similar thickened corners that such corners have the same characteristics and are designed for the same function as the corners of appellant's axle. Even if the corners of the Dehn structure are made by a method different from the corners of appellant, it does not appear that appellant has obtained a new or unobvious result.

Appellant further contends that his invention is particularly concerned with the production of channels made from sheet metal. Not only does the claim fail to mention the use of a particular metal but, as we read the Dehn patent, the same kind of metal can be employed in the production of that axle.

Finally, appellant urges that the Dehn axle has solid ends as distinguished from the alleged "open-end" feature of his axle. We believe, as held by the Examiner, that the instant claim contains no limitation which would differentiate over that feature of Dehn. The language in the claim that the side walls are of "substantially uniform thickness throughout the length of said beam" is, in our opinion, too broad to distinguish over that feature of Dehn.

Since we believe the references used by the Patent Office were proper and that no patentable distinction is present between the claim and references, the decision of the Board as affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

1,984,541, G. E. Nerney, Eyeglass construction, filed Nov. 4, 1953, D. C. N. J. (Newark), Doc. 906/53, *Bay State Optical Co.* v. *New Jersey Optical Co.*

2,208,374, H. M. Lewis, Television receiving system, filed Sept. 17, 1951, D. C. N. J. (Newark), Doc. 881/51, *H. M. Lewis* v. *Video Products Corp. et al.* Dismissed Nov. 4, 1953.

2,461,464, R. Aronstein, Filter for fluorescent screen, filed Aug. 10, 1949, D. C., S. D. N. Y., Doc. 51/228, *Transmirra Products Corp.* v. *Emerson, Inc.* (N. Y.). Consent order of dismissal (notice Nov. 5, 1953). Same, filed June 7, 1951, D. C., S. D. N. Y., Doc. 67/129, *Transmirra Products Corp. et al.* v. *R. C. A.* Decree as above.

2,509,831, J. Martin, Stabilizer for inner spring unit, filed Jan. 2, 1953, D. C., N. D. Ill. (Chicago), Doc. 53–C–1, *Eclipse Sleep Products, Inc., et al.* v. *Nachman Corp.* By stipulation complaint and counterclaim dismissed without prejudice Nov. 6, 1953.

2,524,966, A. L. Eisenman, Chlorinating unit, filed Jan. 23, 1952, D. C., W. D. Mo. (Kansas City), Doc. 7333, *Paddock Engineering Co. of Texas* v. *K-B Pump Company, Inc.* Judgment for plaintiff holding patent valid and infringed Oct. 28, 1953.

2,609,466, I. S. Blonder, Thermorelay element, filed Nov. 6, 1953, D. C. N. J. (Newark), Doc. 910/53, *David Bogen Co., Inc.* v. *Isaac S. Blonder.*

Re. 23,058, L. J. Bronaugh et al., Refrigerators, filed May 9, 1951, D. C., S. D. N. Y., Doc. 66/252, *Amana Refrigeration, Inc.* v. *Moist Cold Refrigerator Co. Inc.* Stipulation dismissing action (notice Nov. 2, 1953).

Des. 161,136, J. Seeman, Wallpaper, filed Nov. 5, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. C–13933, *James Seeman et al.* v. *Alma Barr et al.*

Des. 161,296, H. K. Tourneau, Combined watchcase and bracelet, appeal filed Nov. 5, 1953, C. C. A., 2d Cir., N. Y., Doc. 22909, *Tourneau, Inc.* v. *Tishman & Lipp.*

Des. 168,512, A. Katz, Necklace, filed July 31, 1931, D. C., S. D. N. Y., Doc. 87/41, *Coro, Inc.* v. *Joseph Rapoport.* Consent judgment holding infringement, defendant enjoined Nov. 6, 1953.

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 213,031, Lewis Manufacturing Co., Ready-cut houses, filed Nov. 4, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 16012–C, *Lewis Manufacturing Company* v. *Liberty Building Company.*

T. M. 249,305, Wohl Shoe Company, Ladies' shoes, and boots made of leather, filed Oct. 26, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15972, *Wohl Shoe Co.* v. *Jacqueline Slipper Co.*

T. M. 284,377, Electrolux, Inc., Electrically-operated portable vacuum cleaners and attachments, filed Aug. 10, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15780–T. *Electrolux Corporation* v. *Mercury Vacuum Cleaner Stores et al.* Consent judgment for injunction (notice Nov. 9, 1953).

T. M. 373,000, Smith, Kline & French Laboratories, Medicinal agent, filed Nov. 1, 1951, D. C., S. D. Calif. (Los Angeles), Doc. —, *Smith, Kline & French Laboratories* v. *Ross-Whitney Corp. et al.* Consent judgment holding trade-mark valid and infringed; injunction granted (notice Oct. 29, 1953). Same, filed Apr. 30, 1952, D. C., S. D. Calif. (Los Angeles), Doc. 14072–C, *Smith, Kline & French Laboratories* v. *Coast Pharmaceutical Distributors.* Decree as above.

T. M. 380,719. (See T. M. 556,671.)

T. M. 393,642. (See T. M. 556,671.)

T. M. 424,314, H. H. Stutman, Ladies' and misses' dresses, filed Oct. 22, 1953, D. C., S. D. N. Y., Doc. 88/376, *Stutman & Margolin Dress Co. Inc.* v. *Fair Lady Dresses, Inc., et al.*

T. M. 500,299, The Lovable Brassiere Co., Brassières, filed Aug. 20, 1953, D. C., S. D. N. Y., Doc. 87/257, *The Lovable Brassiere Co.* v. *Sidney J. Kreiss, Inc.* Consent judgment enjoining defendant Oct. 19, 1953.

T. M. 535,473, Bakery and Confectionery Workers' International Union of America, Breads, cakes, crackers, etc., filed Oct. 23, 1953, D. C. N. J. (Newark), Doc. 858/53, *James Cross et al.* v. *Oneida Paper Products Co. et al.*

T. M. 540,747, The American White Cross Laboratories, Inc., Surgical dressings, suit for declaratory judgment filed May 15, 1951, D. C., S. D. N. Y., Doc. 66/319, *The American White Cross Laboratories, Inc.* v. *M. H. Lamston, Inc.* Stipulation of discontinuance Nov. 9, 1953.

T. M. 542,032, Grandma Moses Properties Inc., Booklets, filed Oct. 22, 1953, D. C., S. D. N. Y., Doc. 88/382, *Grandma Moses Properties Inc.* v. *This Week Magazine and United Newspaper Magazine Corp.*

T. M. 556,671, T. M. 571,010, Avon Shoe Co., Inc., Men's, women's, and children's shoes of leather, etc., T. M. 380,719, C. D. Osborn Co., Gloves made of leather, etc., T. M. 393,642, The Daniel Hays Co., Inc., same, filed Oct. 28, 1953, D. C., S. D. N. Y., Doc. 88/29, *Avon Shoe Co. Inc.* v. *B. Altman & Co.*

T. M. 559,448, United States Department of Agriculture, Meat and meat products, and dairy poultry products, filed Nov. 9, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 16021–BH, *United States of America* v. *Choice Meat Packing, Inc.*

T. M. 571,010. (See T. M. 556,671.)

NOTICES

Manual of Patent Examining Procedure—Second Section

The Superintendent of Documents, Government Printing Office, Washington 25, D. C., is now accepting orders for the *Manual of Patent Examining Procedure—Second Edition*, which will be available soon. The price including revision service is $6.25 per copy.

T. B. MORROW,
Executive Officer.

Dec. 22, 1953.

Erratum

All references to Patent No. 2,663,934 to Alexander Leff for Tool for Removing Tooth Enamel, appearing in the OFFICIAL GAZETTE of December 29, 1953, should be deleted as the application was withdrawn from issue and the patent was not issued.

Adjudicated Patents

(C. A. N. J.) Bunnell and Barnes Patent No. 1,921,604, for an apparatus for manufacturing medical swabs. Claims 1 to 8, 16, 22, and 23, *Held* not infringed. *Q-Tips, Inc.* v. *Johnson & Johnson*, 207 F.2d 509; 99 USPQ 183.

(C. A. Mich.) Pfiffner Patent No. 2,407,096, for anti-anemia vitamin products, *Held* not infringed. *Parke, Davis & Company* v. *American Cyanamid Company et al.*, 207 F.2d 571; 99 USPQ 237.

Disclaimer

2,610,680.—*Ernst Witzel*, Milwaukee, Wis. CONTROL SYSTEM UTILIZING SINGLE POINT IGNITION. Patent dated Sept. 16, 1952. Disclaimer filed Dec. 14, 1953, by the assignee, *Milwaukee Gas Specialty Company.*

Hereby enters this disclaimer to claim 1 of said Patent.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,645,806. Door Closer. Patented July 21, 1953. Spring-actuated door closer includes a plurality of springs acting on a pivotally mounted segment. The springs are connected to the segment in such a manner that in opening and closing movements of the door one spring acts against the other so that an even tension is exerted on the door, whereby the door opens and closes with comparatively easy movements. The springs and segment are mounted on a plate which is adapted to be secured to the surface of a door. The segment is actuated by pivotally connected arms, one of which is adapted to be attached to the door frame in which the door is mounted. (Owner) Horace J. Turney, 1637 East Garfield St., Phoenix, Ariz. Group 33—59. Reg. No. 52,310.

Pat. 2,639,879. Ironing Board Holder. Patented May 26, 1953. Device for holding an ironing board in collapsed position on the back of a door, a wall, or the like. The ironing board is supported off the floor by brackets fastened to the bottom of the door. Above the brackets, at a suitable point near the upper end of the ironing board, two metal channel pieces having spaced holes along their entire length are secured to the door in horizontal aligned position by fastening opposite ends of the pieces to the door stiles. A central slightly larger metal channel with spaced holes near each end fits over the two channel pieces and is fastened to one of the channels by an open eye bolt, while the other end is fastened to the inside end of the other channel by a closed eye bolt. A chain secured to the closed eye bolt has a split ring which may be attached to any link of the chain and then hooked onto the open eye bolt to hold the ironing board in position. (Owner) William G. Michel, 1169 South Highland Ave., Oak Park, Ill. Group 33—59. Reg. No. 52, 311.

Pat. 2,602,474. Radial Arm Miter Saw. Patented July 8, 1952. Support frame for a portable electric saw to enable the saw to be used as a stationary structure and improve the accuracy of the saw cut. A flat horizontal base has a pedestal secured thereto. A horizontal frame supported on the pedestal has two parallel spaced horizontal rails. A carriage slidably mounted on the rails has a vertical tubular standard mounted at one end. A column is slidably and rotatably mounted in the standard. At the lower end of the column is provided a horizontal frame with a threaded rod providing a hinge support for an electric saw structure. The motor has a hand grip for moving the motor and saw as desired. A flexible connection, such as a chain, between the column and about the grip supports the saw structure for limited hinged movement and normally holds a pressure-operated switch on the grip closed. (Owner) William Truchan, 2742 Benvenue Ave., Berkeley, Calif. Group 33 —54. Reg. No. 52,312.

Pat. 2,645,531. Rolling Scaffold. Patented July 14, 1953. In combination with an upper and a lower continuous track secured to an outside vertical wall, a movable foot platform is adapted for vertical and horizontal movement along the wall. The platform is raised and lowered by a conventional block and tackle at each end, the lower pulleys being fastened to the platform and the upper pulleys mounted on the under side of two spaced upper travelers which are provided with wheels to roll along the upper track. The platform is steadied against movement away from the wall by two steadying wires. These wires are secured at the upper ends to the upper travelers, pass through apertures in the end portions of the platform, and have resilient means at their lower ends which cooperate with means on two spaced lower travelers. The lower travelers are provided with wheels held in rolling contact with the under surface of the lower track. The platform may be stopped by a pair of foot-operated snubbers, each having a projectible part for frictionally engaging the wall. (Owner) Nelson H. Rector, 230 Bolling Road, N. E., Atlanta, Ga. Group 25—99. Reg. No. 52,313.

Pat. 2,642,289. Toy Rocket. Patented June 16, 1953. Self-propelling toy rocket that may be shot from a stand (held in the hand) into the air by propelling means incorporated therein. An elongated tubular body has a pointed nose and a coil spring or elastic strip secured in a bushing within the body adjacent the nose. One end of the spring or strip is attached to a pin extending through the bushing, and the other end of the spring or strip extends outwardly of the body through a bore in a plug in the rear end of the body and is attached to a pin extending from a gripping knob. The knob may be drawn rearwardly and released to provide the propelling means for the toy. May be made of plastic, paper, or the like. (Owner) Vern R. Gersmehl, Sr., 3817 Warren Ave., Cheyenne, Wyo. Group 39—41—81. Reg. No. 52,314.

Pat. 2,628,593. Pencil Pointer. Patented Feb. 17, 1953. Device for putting a point on the end of the replaceable lead of a standard draftsman's pencil cuts the lead with a predetermined contour. In a tubular casing, open at one end and cap-closed at the other, a cone-shaped cutting recess is defined at the open end by four longitudinally spaced blades, the upper corners of which are cut off diagonally. The blades are replaceably held by holders supported in slots spaced at 90°. An abutting interengagement of the edges of the blades, the holders, and the casing automatically centers the blades. Spring guides located one between each pair of blades resiliently engage and center the lead being sharpened and also exert a frictional force tending to retain the blade and holder assemblies in the casing. Two modified embodiments, and a modified blade for use in any of the embodiments, are shown. (Owner) Elmo E. Aylor, 928 Maple Ave., Galesburg, Ill. Groups 33—51; 40. Reg. No. 52,315.

Pat. 2,646,042. Medical Apparatus. Patented July 21, 1953. Medical apparatus for injecting into and withdrawing fluids from the body under controlled pressure. Includes a two-way needle, a body member, and a three-way plug in the member in connection with the needle. A syringe connected to the plug has a plunger and an interplunger. The plunger and interplunger are movable with respect to each other and with the syringe. The needle has a pair of independent channels, one of which communicates with the multiple-way plug, and the other communicates with a control means. (Owner) Dr. Quang Hsi Hu. Correspondence to Joseph F. Padlon, 120 Broadway, New York 5, N. Y. Group 39—15. Reg. No. 52,316.

Pat. 2,641,216. Anchor. Patented June 9, 1953. A ship's anchor of the type in which the chain is free to run along a slot in the shank of the anchor. The shank is pivoted to the head of the anchor, and diverging flukes of X-shaped cross section are secured to the head. The head is provided with lateral projections, some of which are inclined in the direction of the flukes and others are inclined away from the flukes. The projections inclined in the direction of the flukes assist to bury the flukes in the sea floor, when the anchor is dragged in the normal manner. The projections inclined in the opposite direction serve to bite the sea floor and turn the anchor over when the chain pulls the anchor in the opposite direction. (Owner) Georges E. Dial. Correspondence to: Arnold Tickner, 7 Stone Buildings, Lincoln's Inn, London W. C. 2, England. Group 33—92. Reg. No. 52,317.

Pat. 2,551,159. Lady's Hat. Patented May 1, 1951. Lady's collapsible hat is formed of a flexible wire having various convolutions defining segments, which segments may be twisted to selected positions to form various designs and shapes. A crocheted covering or a web of flexible material having two marginal edges is secured to the wire, the inner edge of which forms a head band. The hat may be made with an open or a closed crown. (Co-owner) Grace M. Ramos, 6450 3 Ave., North, St. Petersburg, Fla. Groups 22—71; 23—51. Reg. No. 52,318.

Pat. 2,645,505. Combination Mother's Pull and Brake Arrangement for Tricycles. Patented July 14, 1953. This device includes a pull tongue or bar which can be released from the handlebars of a child's tricycle and which is connected to a brake arrangement on the rear wheels so that automatically, as the pull bar is released, the brakes are released so that pulling can be effected with the pull bar as it is lowered, or as it is lifted the brakes can be applied. The device further includes a connection of foot pedal arms with the forward drive wheel such that the arms can be released from the wheel at times when the child is tired so that these pedals serve much as a foot rest, and wherein the release of the pedal arms can be effected automatically by the pull bar as it is swung down. (Owner) D. J. Durand, % L. S. Saulsbury, 55 West 42d St., New York 36, N. Y. Group 39—43. Reg. No. 52,319.

Pat. 2,639,503. Guide Attachment for Hair Clippers. Patented May 26, 1953. Combination comb and guide attachment for conventional hair clippers for uniformly cutting hair without the use of a separate comb. The attachment includes a body portion to underlie the head of the clipper. A forward extension integral with the body portion is disposed at an obtuse angle thereto and has a series of elongated teeth. Upstanding lugs at opposite sides of the body have inwardly facing abutments whereby the attachment may be slidably positioned in underlying relationship and remain as a fixed, but removable, attachment to the clipper head, whereby the clippers and comb attachment may be adjustably tilted to a selected elevation for cutting the hair any desired length. (Owner) George E. Thurston, 3230 Monroe St., Chicago, Ill. Groups 33—51; 39—91. Reg. No. 52,320.

Pat. 2,634,220. Coated Paper. Patented Apr. 7, 1953. Coated typewriter paper for a toy typewriter on which matter may be typed and later eradicated with water so that the paper may be repeatedly re-used. The paper has its surface impregnated with a coating "whitewashable with water" which may be typewritten upon, using a conventional typewriter ribbon and when desired eradicated therefrom by rubbing the paper lightly with a wet rag or cotton. The paper will dry quickly for re-use. The paper surface can be obtained by applying a thin film thereto resulting from drying a hydrous poly-alco-gel coating compound. The compound includes tri-acetyl-arabino-galacto-dimethoxy-tetra-galacturonic acid, glycerine, benzoic acid, and an isotonic solution of three chlorides. (Owner) Benjamin J. Oriel, 69 William St., Newark 2, N. J. Group 28—83. Reg. No. 52,321.

Pat. 2,642,587. Extensible Bed and Shelter for Motor Vehicles. Patented June 23, 1953. An extendible bed and shelter to be supported during transit on the top of the trunk of an automobile to which it is hingedly connected and secured by straps. Bumpers are provided on the frame boxes to prevent damage to the vehicle. When the destination is reached, the straps are removed, the frame boxes comprising the bed and shelter unit are pivoted downwardly, two pivotally connected bed frame boxes are extended, adjustable legs are pivoted into position, and the mattress is unfolded. The shelter is then raised. A plurality of U-shaped canopy bows are pivotally connected at their outer ends to brackets on either side of and intermediate the length of the extended bed. By pivoting the bows unward, a flexible canopy is raised and tensioned. In a modified form, the frame boxes are telescopingly movable relative to each other. The bed and shelter unit may be detached from the vehicle in assembled or collapsed form. (Owner) Commander Byron M. Taylor, 4666 El Cerrito Drive, San Diego 15, Calif. Group 25—11. Reg. No. 52,322.

Pat. 2,365,932. Art of Splitting Shakes and a Machine Therefor. Patented Dec. 26, 1944. Power-driven machine for splitting shakes with a controlled and varied taper, and for splitting them from both ends of a shingle block in an alternate manner. In a bed-frame is mounted a reciprocal carriage having a splitting knife. A resilient downwardly acting pair of work holder means are adapted to engage a shingle block by both ends simultaneously for splitting upon a pass of the reciprocal knife, and feeding the block to the knife in such a manner that the knife enters the block with the wood grain first from one end and then the other. Means for indexing the block to the knife a distance at each movement equal to the desired thickness of the butt of the shake are so arranged that a spring biases the block with varying degrees of pressure upon the knife in order to vary the amount of taper in the split shake. A treadle is provided by which the feed heads located at opposite ends of the shingle block may both be retracted to allow removal and insertion of the block. (Owner) Richard E. Bierd. Correspondence to Smith & Tuck, 734 Central Building, Seattle 4, Wash. Groups 24—23; 35—53. Reg. No. 52,323.

Pat. 2,586,219. Hernia Stay. Patented Feb. 19, 1952. Hernia stay will be under compression when in applied position to hold the rupture back in proper position. The stay comprises a longitudinally bowed elongated flexible body having a bowed spring embedded therein and a pair of guide loops projecting from the ends of the concave side to receive a supporting strap. Pins for engaging the strap are fixed to the ends of the spring. A convex resilient raised portion is integral with the convex side of the body. When the supporting strap with the stay adjusted thereon is firmly secured to the user by a belt or the like, pressure of the strap will reversely bend the body and hold the body and the convex raised portion under compression in applied position. The points of the pins project partly into the strap as the body is reversely bent to firmly secure the stay in adjusted position on the strap. For use in post operative cases, the convex raised portion of the stay is eliminated. (Owner) Theodore Geffas, 962 36th St., Ogden, Utah. Group 39—16. Reg. No. 52,324.

Pat. 2,614,257. Lady's Underslip. Patented Oct. 21, 1952. Slip for ladies has a pair of cut-out portions in the upper front part of the bodice, of such a size to fit around the bust cups of a brassière, permitting the cups to extend therethrough to enhance the wearer's bust lines. The slip may be made with or without straps. When applied to strapless slips, the cut-out portions are provided with a channel in which is inserted a stay or boning. With this arrangement, the garment will be self sustaining upon the wearer without the aid of shoulder straps. (Owners) Jonas Kramer and Betty Kramer, 63—61 Yellowstone Blvd., Forest Hills, Long Island, N. Y. Group 23—41. Reg. No. 52,325.

General Electric Company is prepared to grant non-exclusive licenses *in the field of radio purposes* under the following 17 patents, upon reasonable terms, to domestic manufacturers. Group 36—61.

Applications for license may be addressed to the Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y.

Pat. 2,633,017. Method of Detecting an Electrical Twinning Boundary in Crystals. Mar. 31, 1953. Reg. No. 52,326.

Pat. 2,633,032. Adjustable Gearing Device. Mar. 31, 1953. Reg. No. 52,327.

Pat. 2,633,489. Crystal Valve or Rectifier. Mar. 31, 1953. Reg. No. 52,328.

Pat. 2,634,382. Electric Discharge Device Apparatus. Apr. 7, 1953. Reg. No. 52,329.

Pat. 2,634,383. Cavity Resonator High-Frequency Electron Discharge Device. Apr. 7, 1953. Reg. No. 52,330.

Pat. 2,635,032. Recording System. Apr. 14, 1953. Reg. No. 52,331.

Pat. 2,635,140. Frequency-Interlace Television System. Apr. 14, 1953. Reg. No. 52,332.

Pat. 2,637,000. Magnetic Electron Lens. Apr. 28, 1953. Reg. No. 52,333.

Pat. 2,637,005. Control for Screen Exciting Oscillator. Apr. 28, 1953. Reg. No. 52,334.

Pat. 2,637,838. Amplitude Modulation Circuit. May 5, 1953. Reg. No. 52,335.

Pat. 2,639,156. Double-Twist Phonograph Stylus Assembly. May 19, 1953. Reg. No. 52,336.

Pat. 2,639,311. Fastening Device for Shield Cans. May 19, 1953. Reg. No. 52,337.

Pat. 2,639,319. Universal Sweep and High-Voltage Transformer. May 19, 1953. Reg. No. 52,338.

Pat. 2,639,399. Electron Emitter. May 19, 1953. Reg. No. 52,339.

Pat. 2,639,421. Optical Projection Display System. May 19, 1953. Reg. No. 52,340.

Pat. 2,644,906. Electron Beam Discharge Device. July 7, 1953. Reg. No. 52,341.

Pat. 2,644,924. Frequency Modulation System. July 7, 1953. Reg. No. 52,342.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Apparatus for the intra-uterine administration of a veterinary medication. Serial No. 638,752, Jan. 12. Class 44.

Abbott Laboratories, North Chicago, Ill. Collapsible plastic tube adapted for use with a hypodermic needle. Serial No. 640,488, Jan. 12. Class 44.

Agosta, Joseph, Astoria, N. Y. Tonic. Serial No. 643,806, Jan. 12. Class 18.

Aiken, Hugh H., Wayne, Pa. Electronic sealing of an object such as a picture card. Serial No. 574,750, Jan. 12. Class 106.

Air Reduction Company, Incorporated, New York, N. Y. Welding hose and valve packing. Serial No. 650,675, Jan. 12. Class 35.

Alarcon, Angel C., Moron de la Frontera, Spain. Olive oil. Serial No. 610,945, Jan. 12. Class 46.

Aldens, Inc., Chicago, Ill. Dungarees. Serial No. 654,505, Jan. 12. Class 39.

Allis-Chalmers Manufacturing Company, West Allis, Wis. Transformers and parts thereof. Serial No. 650,084, Jan. 12. Class 21.

American Art Works, Inc., The, Coshocton, Ohio. Serving trays. Serial No. 647,983, Jan. 12. Class 13.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial No. 640,374, Jan. 12. Class 44.

American Gas Accumulator Company, Elizabeth, N. J., now by merger assignor to Elastic Stop Nut Corporation of America. Time delay control relays. Serial Nos. 611,210–11, Jan. 12. Class 21.

American Gas Accumulator Company, Elizabeth, N. J., now by merger assignor to Elastic Stop Nut Corporation of America. Time delay control relays. Serial No. 611,213, Jan. 12. Class 21.

American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Hand fibre rope. Serial No. 617,478, Jan. 12. Class 7.

American Molding Powder and Chemical Corp., Brooklyn, N. Y. Polymer and co-polymer resins and alloys thereof. Serial No. 643,401, Jan. 12. Class 6.

Amerpol Associates, Chicago, Ill. Tablets to help relieve and control pain, etc. Serial No. 636,550, Jan. 12. Class 18.

Ames Chemical Company: *See*—
Victor, S. H.

Ameurope, Inc., Jersey City, N. J. Hand- and power-operated printing, numbering, marking machines and parts thereof. Serial No. 643,883, Jan. 12. Class 23.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Soap. Serial No. 643,454, Jan. 12. Class 52.

Arkansas Company, Inc., Newark, N. J. Silicone containing water-repellent coating, surfacing, and impregnating compositions. Serial No. 631,714, Jan. 12. Class 16.

Art Crayon Co. Inc., Brooklyn, N. Y. Modeling clay. Serial No. 648,830, Jan. 12. Class 1.

Atlantic Battery Company: *See*—
Migell, Dorothy B.

Attapulgus Minerals & Chemicals Corporation, Philadelphia, Pa. Fuller's earth. Serial No. 646,255, Jan. 12. Class 1.

Automatic Devices Company, Allentown, Pa. Electric motor operated apparatus. Serial No. 637,564, Jan. 12. Class 21.

Bacon Products Company, Chattanooga, Tenn. Cough syrup. Serial No. 641,117, Jan. 12. Class 18.

Balfour, Guthrie & Co., Limited, San Francisco, Calif. Firecrackers. Serial No. 621,126, Jan. 12. Class 9.

Bantam-Lite, Inc., New York, N. Y. Pocket flashlights. Serial No. 636,917, Jan. 12. Class 21.

Beacon Machinery, Inc., Centreville Township, St. Clair County, Ill. Material handling equipment. Serial No. 642,386, Jan. 12. Class 23.

Bellows Co., The, Akron, Ohio. Power-operated unit for controlling the torque load on a drill press or similar machine. Serial No. 641,760, Jan. 12. Class 23.

Benevim Corporation, New York, N. Y. Medicinal tonic. Serial No. 631,784, Jan. 12. Class 18.

Beverly Coronet Company, Brooklyn, N. Y. Cosmetics. Serial No. 648,979, Jan. 12. Class 51.

Bio-Compounds Co., Chicago, Ill. Chemical compounds. Serial No. 641,902, Jan. 12. Class 6.

Blum's, San Francisco, Calif. Candy. Serial No. 592,865, Jan. 12. Class 46.

Bostitch, Inc., Providence, R. I., and Pawcatuck, Stonington, Conn. Staples. Serial No. 650,481, Jan. 12. Class 13.

Bowes "Seal-Fast" Corporation, Indianapolis, Ind. Rubber dough kits for use in repair of rubber tire casings. Serial No. 639,868, Jan. 12. Class 35.

Boyles Bros. Drilling Company Ltd., Vancouver, British Columbia, Canada. Drilling equipment. Serial No. 611,635, Jan. 12. Class 23.

Breck, John H., Inc., Springfield, Mass. Soap shampoos, baby skin soaps, etc. Serial No. 585,268, Jan. 12. Class 52.

Breck, John H., Inc., Springfield, Mass. Chemical preparation used in cosmetics. Serial No. 650,773, Jan. 12. Class 51.

Bristol Laboratories, Inc., New York and Syracuse, N. Y. Penicillin derivative. Serial No. 636,966, Jan. 12. Class 18.

Bronson, David W., doing business as Dr. Bronson Laboratories, New York, N. Y. Fluoride tablets. Serial No. 644,386, Jan. 12. Class 18.

Bronson, Dr., Laboratories: *See*—
Bronson, David W.

Brown, David E., doing business under the firm name of The Kap-O-Lak Company, Baton Rouge, La. Vitamin and mineral tablets. Serial No. 628,807, Jan. 12. Class 18.

Brugay Inc., New York, N. Y. Miniatures, namely, clown character dolls. Serial No. 647,987, Jan. 12. Class 22.

Brussaard's Handelmaatschappij N. V., Rotterdam, Netherlands. Preserved ham, preserved cherries, raspberries, etc. Serial No. 642,939, Jan. 12. Class 46.

Bud-Mel Mfg. Co., Middletown, Ohio. Individual cup holding clamps. Serial No. 648,480, Jan. 12. Class 13.

Burns, Jabez, & Sons, Inc., New York, N. Y. Automatic electric heat controls. Serial No. 626,513, Jan. 12. Class 21.

Burpee, W. Atlee, Company, Philadelphia, Pa. Vegetable seeds. Serial Nos. 635,399–400, Jan. 12. Class 1.

C & D Prescription Pharmacy, Texas City, Tex. Nose drops, diuretic compound, stimulant for the kidneys, etc. Serial No. 650,973, Jan. 12. Class 18.

Calgon, Incorporated, Pittsburgh, Pa. Cleansing and detergent compound. Serial No. 618,954, Jan. 12. Class 52.

Caram Manufacturing Company, Monrovia, Calif. Latex coated and impregnated sound-absorbing and vibration-absorbing material. Serial Nos. 645,538–9, Jan. 12. Class 1.

Caribe Electric Battery Corporation, Los Angeles, Calif. Electrical storage batteries. Serial No. 646,052, Jan. 12. Class 21.

Cedino (Canada) Ltd., assignee: *See*—
Prévost, René.

Champion Paper and Fibre Company, The, Hamilton, Ohio. Printing paper. Serial No. 633,101, Jan. 12. Class 37.

Charis Corporation, Allentown, Pa. Foundation garments. Serial No. 581,173, Jan. 12. Class 39.

Charles of the Ritz, Inc., New York, N. Y. Cosmetic toilet cream. Serial No. 641,016, Jan. 12. Class 51.

Chester, George F., & Son, Inc., Valparaiso, Ind. Hybrid popcorn seed. Serial No. 647,997, Jan. 12. Class 1.

Chicago Sanitary Products Co., Chicago, Ill. Space spray and space deodorant. Serial No. 642,265, Jan. 12. Class 6.

Cleveland Finecraft, Incorporated, Cleveland, Ohio. Diamond grinding wheels. Serial No. 639,740, Jan. 12. Class 4.

Cole, E. K., Limited, Southend-on-Sea, Essex, England. Television receivers and radio transmitters and receivers. Serial No. 646,923, Jan. 12. Class 21.

Colgate-Palmolive Company: *See*—
Colgate-Palmolive-Peet Company.

Colgate-Palmolive-Peet Company, Jersey City, N. J., now by change of name, Colgate-Palmolive Company. Shampoo. Serial No. 648,981, Jan. 12. Class 52.

Colgate-Palmolive-Peet Company, Jersey City, N. J., now by change of name, Colgate-Palmolive Company. Shampoo. Serial No. 649,125, Jan. 12. Class 52.

Construction Machinery Company, Waterloo, Iowa. Concrete mixers. Serial No. 649,482, Jan. 12. Class 23.

Cook Coffee Company, The, Cleveland, Ohio. Soap flakes, soap granules, soap pads, etc. Serial No. 590,424, Jan. 12. Class 52.

Cook Coffee Company, The, Cleveland, Ohio. Self-polishing floor wax; and scouring cleaner. Serial No. 591,880, Jan. 12. Class 4.

Cook, H. C., Company, The, Ansonia, Conn. Fingernail clippers. Serial No. 648,651, Jan. 12. Class 44.

Crompton Company, Crompton, R. I. Fabrics. Serial No. 641,671, Jan. 12. Class 42.

Daggett & Ramsdell, Inc., doing business as Richel Cosmetics, Newark, N. J. Cosmetics. Serial No. 638,403, Jan. 12. Class 51.

Dayton Company, The, Minneapolis, Minn. Women's nylon hosiery. Serial No. 647,835, Jan. 12. Class 39.

Detrex Corporation, Detroit, Mich. Phosphate coatings. Serial No. 643,211, Jan. 12. Class 6.

Dick, A. B., Company, Niles, Ill. Liquids for use in a duplicating process. Serial No. 645,120, Jan. 12. Class 6.

Dictaphone Corporation, Bridgeport, Conn. Organic chemical compounds. Serial No. 627,560, Jan. 12. Class 6.

Distaquaine Products Limited: *See*
Distillers Company (Biochemicals) Limited, The.
Distillers Company (Biochemicals) Limited, The, now by change of name, Distaquaine Products Limited, assignor to The Distillers Company (Biochemicals) Limited, Liverpool, England. Vitamin preparation. Serial No. 625,893, Jan. 12. Class 18.
Dow Corning Corporation, Midland, Mich. Organosiloxane adhesives. Serial No. 619,814, Jan. 12. Class 5.
Downy Dunker Donut Co.: *See*—
Hansen, Charles E.
Driv-Lok Pin Company, Sycamore, Ill. Self locking metallic pins. Serial No. 650,431, Jan. 12. Class 13.
Duro-Test Corporation, North Bergen, N. J. Starting switches. Serial No. 646,658, Jan. 12. Class 21.
Economy Furniture, Austin, Tex. End tables, coffee tables, occasional tables, etc. Serial No. 632,552, Jan. 12. Class 32.
Edco International Corporation, Detroit, Mich. Wiping cloths. Serial No. 650,041, Jan. 12. Class 29.
Edwards, Harry, trading as Harry's Ear-Tuned Duck Call, Minneapolis, Minn. Duck calls. Serial No. 643,032, Jan. 12. Class 22.
Elastic Stop Nut Corporation of America, assignee: *See*—
American Gas Accumulator Company.
Electro-Seal Watch Crystal Co., New York, N. Y. Watch crystals. Serial No. 639,268, Jan. 12. Class 33.
Electroweld Mfg. Co., Inc., Chicago, Ill. Metal wall and floor cabinets. Serial No. 626,733, Jan. 12. Class 32.
Elsener, Elisa, doing business as Messerfabrik Carl Elsener, Inhaberin E. Elsener, Ibach-Schwyz, Switzerland. Cutlery. Serial No. 609,171, Jan. 12. Class 23.
Engineered Products Company, Flint, Mich. Door hardware. Serial No. 594,766, Jan. 12. Class 13.
Erwin, James Company, Inc., New York, N. Y. Pharmaceutical preparations. Serial No. 641,832, Jan. 12. Class 18.
Etablissements Auguste Bloch et Fils, Tomblaine, Meurthe and Moselle, France. Dehydrated soups. Serial No. 638,575, Jan. 12. Class 46.
Ethicon, Inc.: *See*—
Ethicon Suture Laboratories, Incorporated.
Ethicon Suture Laboratories, Incorporated, New Brunswick, N. J., now by change of name, Ethicon, Inc. Surgical cotton, gut, and silk. Serial No. 651,165, Jan. 12. Class 44.
Fabbrica Svizzera di Veli-Seta per Buratti S. A.: *See*—
Swiss Silk Bolting Cloth M'fg. Co. Ltd.
Faber-Castell, A. W., assignee: *See*
Faber-Castell, A. W., Pencil Co., Inc.
Faber-Castell, A. W., Pencil Co., Inc., Newark, N. J., assignor to A. W. Faber-Castell, Stein bei Nuremberg, West Germany. Wood encased, lead pencils, slate pencils, crayon pencils, etc. Serial No. 637,306, Jan. 12. Class 37.
Federal Cartridge Corporation, Minneapolis, Minn. Air rifle shot. Serial No. 638,955, Jan. 12. Class 9.
Federal Tool Corporation, Chicago, Ill. Hand operated beverage mixer. Serial No. 647,282, Jan. 12. Class 23.
Fleischer, Robert, New York, N. Y. Costume jewelry. Serial No. 634,620, Jan. 12. Class 28.
Flexfirm Products, El Monte, Calif. Glass fiber loaded compound. Serial No. 649,583, Jan. 12. Class 1.
Flo-Bell, Inc., Yonkers, N. Y. Hydrotherapeutic massaging appliance or instrument. Serial No. 621,397, Jan. 12. Class 44.
Fluor Corporation, Ltd., The, Los Angeles, Calif. Mechanical draft and atmospheric water cooling towers. Serial No. 644,404, Jan. 12. Class 31.
Fluor Corporation, Ltd., The, Los Angeles, Calif. Design and engineering of plant equipment and buildings. Serial No. 651,909, Jan. 12. Class 100.
Food Fair Stores, Inc., Philadelphia, Pa. Butter. Serial No. 649,876, Jan. 12. Class 46.
Fortevin Corporation, Staten Island, N. Y. Multiple vitamin capsules and mineral tablets. Serial No. 651,100, Jan. 12. Class 18.
Fosdick Machine Tool Co., The, Cincinnati, Ohio. Spindles. Serial No. 649,778, Jan. 12. Class 23.
Fuerst, Myron M., Pine Plains, N. Y. Livestock. Serial No. 647,284, Jan. 12. Class 1.
Fuller Pharmaceutical Company, Minneapolis, Minn. Anesthetic cream and anesthetic ointment. Serial No. 640,116, Jan. 12. Class 18.
Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. Serial No. 649,780, Jan. 12. Class 28.
General Aniline & Film Corporation, New York and Binghamton, N. Y. Light-sensitive photographic paper. Serial No. 649,586, Jan 12. Class 26.
General Motors Corporation, Detroit, Mich. Carburetors and parts thereof. Serial No. 649,699, Jan. 12. Class 23.
General Zipper Corp., Long Island City, N. Y. Slide fasteners. Serial No. 649,936, Jan. 12. Class 13.
Gerber Products Company, Fremont, Mich. Meat base formula. Serial No. 643,417, Jan. 12. Class 18.
Geriampco, Tucson, Ariz. Vitamin supplement. Serial No. 615,013, Jan. 12. Class 18.
Geriampco, Tucson, Ariz. Anti-acid vitamin supplement. Serial No. 615,014, Jan. 12. Class 18.
Globe Laboratories, Fort Worth, Tex. Veterinary preparations. Serial No. 621,102, Jan. 12. Class 18.
Golden Citrus Juices, Inc., Fullerton, Calif. Fresh frozen citrus juice concentrates. Serial No. 648,669, Jan. 12. Class 46.
Goss Printing Press Company, The, Chicago, Ill. Power operated printing presses and parts thereof. Serial No. 607,753, Jan. 12. Class 23.
Goss Printing Press Company, The, Chicago, Ill. Power operated printing presses and parts thereof. Serial No. 607,755, Jan. 12. Class 23.
Great Lakes Carbon Corporation, New York, N. Y. Massive synthetic carbon or graphite blocks or bricks. Serial No. 633,766, Jan. 12. Class 12.
Greenwood Mills, Inc., New York, N. Y. Piece goods. Serial No. 643,318, Jan. 12. Class 42.
Griswold, F. T., Manufacturing Company: *See*—
Griswold, Frank T., Jr.
Griswold, Frank T., Jr., doing business under the name of F. T. Griswold Manufacturing Company, Wayne, Pa. Heads for lathes, tables for lathes and planers, milling machines. Serial No. 622,334, Jan. 12. Class 23.
Gustin-Bacon Manufacturing Company, Kansas City, Mo. Fibrous wicking. Serial No. 650,440, Jan. 12. Class 35.
Hachmeister-Inc., Pittsburgh, Pa. Plastic floor tile. Serial No. 630,071, Jan. 12. Class 12.
Hanna Engineering Works, Chicago, Ill. Valves. Serial No. 646,550, Jan. 12. Class 13.
Hansen, Charles E., doing business as Downy Dunker Donut Co., Minneapolis, Minn. Pastries. Serial No. 653,141, Jan. 12. Class 46.
Harry's Ear-Tuned Duck Call: *See*—
Edwards, Harry.
Hat Corporation of America, Norwalk, Conn. Hats. Serial No. 639,225, Jan. 12. Class 39.
Heckethorn Manufacturing & Supply Co., Littleton, Colo. Shock absorbers. Serial No. 652,191, Jan. 12. Class 19.
Herrschaft, William, New York, N. Y. Furniture-type stands. Serial No. 644,416, Jan. 12. Class 32.
Hinners and Galanek Radio Corporation, Long Island City, N. Y. Radio receiving sets, phonographs, television receiving sets, etc. Serial No. 646,551, Jan. 12. Class 21.
Hirst & Thackway Limited, Leeds, England. Showerproof outer garments. Serial No. 636,232, Jan. 12. Class 39.
Hoffman, Charles J., doing business as Hoffman Company, York, Pa. Manually operated floor and roof steel-blade scrapers and attachable, renewable blades therefor. Serial No. 647,007, Jan. 12. Class 23.
Hoffman Company: *See*—
Hoffman, Charles J.
Holmes, George E., doing business under the name and style of George E. Holmes, Sarasota, Fla. Electrical vaporizer and insect trap. Serial No. 637,541, Jan. 12. Class 21.
Hudson American Corporation, New York, N. Y. Marine radio transmitters and receivers. Serial No. 638,853, Jan. 12. Class 21.
Instrument Development Laboratories, Inc., Needham Heights, Mass. Photo-electric optical instrument. Serial No. 590,600, Jan. 12. Class 26.
Instrument Development Laboratories, Inc., Needham Heights, Mass. Photo-electric colorimetric apparatus. Serial No. 628,405, Jan. 12. Class 26.
International Minerals & Chemical Corporation, Chicago, Ill. Powdered phosphate rock for use as a fertilizer. Serial Nos. 634,942–3, Jan. 12. Class 10.
Interstate Drop Forge Company, Milwaukee, Wis. Hand tools. Serial Nos. 647,420–1, Jan. 12. Class 23.
Isaacs, I. C., & Company, Inc., Baltimore, Md. Girls' and ladies' dungarees. Serial No. 649,788, Jan 12. Class 39.
Ivar's, Inc., Seattle, Wash. Clam chowder. Serial No. 652,529, Jan. 12. Class 46.
Jacques Seed Company, Prescott, Wis. Corn seed. Serial No. 605,518, Jan. 12. Class 1.
Jet-Heet, Inc., Englewood, N. J. Liquid cooling-pad systems. Serial No. 636,017, Jan. 12. Class 31.
Jet-Heet, Inc., Englewood, N. J. Liquid cooling-pad systems. Serial Nos. 636,019–20, Jan. 12. Class 31.
Johnston, Lawrence B., doing business as Plasti-Music Company, Evansville, Ind. Sheet-music holders. Serial No. 645,045, Jan. 12. Class 37.
Jones, Vern, doing business under the fictitious name and style of Vern Jones Technical Research, Encino, Calif. Aid in preventing fur chewing for chinchillas and other fur bearing animals. Serial No. 642,280, Jan. 12. Class 6.
Jones, Vern, doing business under the fictitious name and style of Vern Jones Technical Research, Encino, Calif. Fur conditioner and deodorant. Serial No. 642,281, Jan. 12. Class 6.
Jones, Vern, Technical Research: *See*—
Jones, Vern.
Jorgensen, David F., Altadena, Calif. Portable pouring spout. Serial No. 646,772, Jan. 12. Class 13.
Kap-O-Lak Company, The: *See*—
Brown, David E.
Keith-Victor Pharmacal Co., St. Louis, Mo. Medicinal preparations. Serial No. 611,523, Jan. 12. Class 18.
Kemlite Laboratories, Chicago, Ill. Gaseous-discharge flash tubes. Serial No. 650,108, Jan. 12. Class 21.
Kemlite Laboratories, Chicago, Ill. Gaseous-discharge flash tubes. Serial No. 650,310, Jan. 12. Class 21.

Kentile, Inc., Brooklyn, N. Y. Floor tile. Serial No. 649,995, Jan. 12. Class 12.
Kerr, Alexander H., and Company, Incorporated, Los Angeles, Calif. Mastic compound or preparation. Serial No. 644,765, Jan. 12. Class 12.
Keystone Paint and Varnish Corporation, Brooklyn, N. Y. Paints, painters' materials and protective and decorative coatings. Serial No. 644,555, Jan. 12. Class 16.
Kinetic Dispersion Corporation, Buffalo, N. Y. Dispersion mills. Serial No. 632,620, Jan. 12. Class 23.
Knickerbocker Biologicals Inc., New York, N. Y. Dried human blood plasma. Serial No. 633,497, Jan. 12. Class 18.
Knight, Charles H., San Francisco, Calif. Dry lubricant. Serial No. 647,077, Jan. 12. Class 15.
Kohl, Theodore G., Miami, Fla. Kitchen hand tool. Serial No. 646,477, Jan. 12. Class 23.
La Maur, Inc., Minneapolis, Minn. Hair bleach. Serial No. 633,729, Jan. 12. Class 51.
Lapp Insulator Company, Inc., Leroy, N. Y. Chemically-resistant pumps. Serial No. 649,522, Jan. 12. Class 23.
Leeds Associates Inc., New York, N. Y. Woolen fabrics. Serial No. 643,106, Jan. 12. Class 42.
Le Fevre Chemical Co., assignee: *See*—
Lefevre Chemical Co.
Lefevre Chemical Co., Oklahoma City, Okla., and Dallas, Tex., assignor to Le Fevre Chemical Co., Oklahoma City, Okla. Liquid deodorant. Serial No. 641,848, Jan. 12. Class 6.
Leon, A. P., doing business as a sole proprietor under the name Leon Associates, New York, N. Y. Vitamin concentrate. Serial No. 642,081, Jan. 12. Class 18.
Leon Associates: *See*—
Leon, A. P.
Lewis and Kaufman, Ltd., Los Gatos, Calif. Electron tubes. Serial No. 647,302, Jan. 12. Class 21.
Lewis, Rosemarie, operating as Vogarell Products Company, Los Angeles, Calif. Medicinal preparations. Serial No. 615,561, Jan. 12. Class 18.
Lien, Jorgen S., New York, N. Y. Cash registers. Serial No. 649,237, Jan. 12. Class 26.
Lincoln Radio & Television Corporation, Chicago, Ill. Television receiving sets and radio receiving sets. Serial No. 584,278, Jan. 12. Class 21.
Little, Arthur D., Inc., Cambridge, Mass. Electronic computing apparatus. Serial No. 649,889, Jan. 12. Class 26.
Luseaux Laboratories, Inc., Gardena, Calif. Preparations having sanitizing, deodorizing and germicidal properties. Serial No. 649,007, Jan. 12. Class 6.
Magnatran Incorporated, Kearny, N. J. Electrical apparatus. Serial No. 628,159, Jan. 12. Class 21.
Magnolia Pharmaceuticals, Inc., Jackson, Miss. Mineral concentrate for the treatment of skin irritations. Serial No. 635,922, Jan. 12. Class 18.
Marbon Corporation, Gary, Ind. Synthetic resins. Serial No. 647,787, Jan. 12. Class 6.
Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. Serial No. 650,820, Jan. 12. Class 18.
Merit Clothing Company, Mayfield, Ky. Men's topcoats. Serial No. 644,771, Jan. 12. Class 39.
Messerfabrik Carl Elsener, Inhaberin E. Elsener: *See*—
Elsener, Elisa.
Metal Lubricants Co., Chicago, Ill. Oil. Serial No. 650,824, Jan. 12. Class 15.
Metro Medical Distributors, Inc., New York, N. Y. Ureteral catheters, ureteral bougies, ureteral splints, etc. Serial No. 641,946, Jan. 12. Class 44.
Metro Medical Distributors, Inc., New York, N. Y. Urethral catheters, urethral bougies, urethral instillators, etc. Serial No. 641,947, Jan. 12. Class 44.
Migell, Dorothy B., doing business under the name of Atlantic Battery Company, Watertown, Mass. Storage battery grid alloy. Serial No. 651,346, Jan. 12. Class 14.
Mineral Pigments Corporation, Muirkirk, Md. Dry color pigments. Serial No. 634,105, Jan. 12. Class 6.
Minnesota Mining and Manufacturing Company, St. Paul, Minn. Polishing sheet or strip material. Serial Nos. 645,177–8, Jan. 12. Class 4.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Caulking compound. Serial No. 650,455, Jan. 12. Class 12.
Mission Cordage Co., Sepulveda, Calif. Twine. Serial No. 644,131, Jan. 12. Class 7.
Moore, Benjamin, & Co., New York, N. Y. Protective and decorative coatings. Serial No. 626,584, Jan. 12. Class 16.
Moore, Merle, doing business as Moore's Distributing Agency, Corvallis, Oreg. Float valves. Serial No. 650,062, Jan. 12. Class 13.
Moore's Distributing Agency: *See*
Moore, Merle.
Moss Key-Rec Systems, Inc., Dayton, Ohio. Partially printed business forms. Serial No. 614,709, Jan. 12. Class 37.
Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Candles. Serial Nos. 650,194–7, Jan. 12. Class 15.
Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Candles. Serial Nos. 650,200–1, Jan. 12. Class 15.
Mullins Manufacturing Corporation, Salem and Warren, Ohio. Kitchen cabinets, what-not shelves, standing shelves and cabinet counter tops. Serial Nos. 623,669–70, Jan. 12. Class 32.
Mundet Cork Corporation, North Bergen, N. J. Cork insulation, cork boards, and cork pipe covering, etc. Serial No. 634,208, Jan. 12. Class 12.
Nachem, Samuel, Yonkers, N. Y. Hem bindings. Serial No. 624,608, Jan. 12. Class 40.
National Mattress Company, Huntington, W. Va. Boxsprings. Serial No. 632,218, Jan. 12. Class 32.
Newton Automotive, Inc., Newton and Newton Center, Mass. Replacement parts for automotive vehicles. Serial No. 624,894, Jan. 12. Class 23.
North, Joseph M., doing business as 6-Volt Lubricating Co., Arnold, Kans. Portable lubricating units. Serial No. 646,799, Jan. 12. Class 23.
Nutrex Company, Inc., Newark, N. J. Tablet preparation. Serial No. 650,637, Jan. 12. Class 18.
Nylon Molded Products Corporation, Garrettsville, Ohio. Manufacture to individual specification of injection molded plastic products. Serial No. 644,188, Jan. 12. Class 106.
Optische Werke C. A. Steinheil Sohne G. m. b. H., Munich, Germany. Optical lenses photographic objectives, telescope objectives, etc. Serial No. 637,145, Jan. 12. Class 26.
Organon Inc., Orange, N. J. Medicinal preparation. Serial No. 650,728, Jan. 12. Class 18.
Owens-Corning Fiberglas Corporation, Toledo, Ohio. Insulating bats, boards and slabs of fibrous glass. Serial Nos. 633,867–70, Jan. 12. Class 12.
Packwood, G. H., Manufacturing Co., St. Louis, Mo. Powdered skin cleanser. Serial No. 645,069, Jan. 12. Class 52.
Paramount Paper Products Company, Omaha, Nebr. Partially printed labels. Serial No. 625,024, Jan. 12. Class 37.
Parfums Charbert, Inc., New York, N. Y. Perfume, toilet water and face powder and bath powder. Serial No. 640,801, Jan. 12. Class 51.
Peck, Hyman B., Rochester, N. Y. Pastry boards. Serial No. 625,815, Jan. 12. Class 23.
Pennsylvania Perlite Corporation, Allentown, Pa. Perlite aggregate. Serial No. 644,927, Jan. 12. Class 1.
Pfister & Vogel Tanning Co., Milwaukee, Wis. Leather. Serial No. 649,899, Jan. 12. Class 1.
Pfizer, Charles, & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. Serial No. 636,250, Jan. 12. Class 18.
Phillips Products, Chicago, Ill. Static dust preventive. Serial No. 623,808, Jan. 12. Class 6.
Pittsburgh Coke & Chemical Company, Pittsburgh, Pa. Paints and coating compositions. Serial No. 645,665, Jan. 12. Class 16.
Plasti-Music Company: *See*—
Johnston, Lawrence B.
Port Fertilizer & Chemical Company, Los Fresnos, Tex. Insecticides. Serial No. 643,183, Jan. 12. Class 6.
Post Institute: *See*—
Stern, Louis J.
Postway Company, Concord, N. C. Ladies' full fashioned hosiery, ladies' seamless hosiery, etc. Serial No 649,728, Jan. 12. Class 39.
Premier Industries, Inc., Covington, Ky. Soda straws. Serial No. 650,119, Jan. 12. Class 50.
Prévost, René, Ville Mont-Royal, Quebec, assignor to Cedino (Canada) Ltd., Ville St. Michel, Quebec, Canada. Carbonated water for headache and neuralgia. Serial No. 586,361, Jan. 12. Class 18.
Progressive Pants Company, Norwich, Conn. Work pants. Serial No. 639,076, Jan. 12. Class 39.
Quaker Chemical Products Corporation, Conshohocken, Pa. Lubricating and cutting compositions. Serial No. 650,320, Jan. 12. Class 15.
Rabon, Edwin M., Tulsa, Okla. Benzoin inhalant. Serial No. 646,893, Jan. 12. Class 18.
Radio Receptor Company, Inc., Brooklyn, N. Y. Radio receiving and transmitting sets and parts thereof, selenium rectifiers, etc. Serial No. 640,579, Jan. 12. Class 21.
Ramol Company, The, Centerburg, Ohio. Ammonia sulpho-ichthyolate. Serial No. 640,528, Jan. 12. Class 18.
Raybestos-Manhattan, Inc., Passaic, N. J. Fluid piston rod packing. Serial No. 646,894, Jan. 12. Class 35.
Raymond's, Inc., Boston, Mass. Men's and young men's suits, topcoats, overcoats, etc. Serial No. 649,070, Jan. 12. Class 39.
Ray-O-Vac Company, Madison, Wis. Flashlights and flashlight cases. Serial No. 643,373, Jan. 12. Class 21.
Rek-O-Kut Company, Long Island City, N. Y. Electrically operated sound recording and reproducing machines. Serial No. 639,441, Jan. 12. Class 21.
Reliable Supply Company: *See*—
Schmidt, Theodore.
Rembrandt Lamp Corporation, Chicago, Ill. Electric fans. Serial No. 647,232, Jan. 12. Class 21.
Richel Cosmetics: *See*—
Daggett & Ramsdell, Inc.
Ritter, P. J., Company, Bridgeton, N. J. Catsup, chili sauce relish, packed vegetables, etc. Serial No. 643,395, Jan. 12. Class 46.

Robertson Photo-Mechanix, Inc., Chicago, Ill. Cameras. Serial No. 649,613, Jan. 12. Class 26.
Rohden Manufacturing Co., Chicago, Ill. Circuit breakers. Serial No. 647,982, Jan. 12. Class 21.
Rohm & Haas Company, Philadelphia, Pa. Synthetic resinous materials. Serial No. 649,668, Jan. 12. Class 1.
Rubicon, Inc., New York, N. Y. Fuel oil. Serial No. 624,973, Jan. 12. Class 15.
Russo, Giuseppe, Stamford, Conn. Book matches. Serial No. 643,615, Jan. 12. Class 9.
Safie Bros. Co., Inc., New York, N. Y. Textile sheeting. Serial No. 623,369, Jan. 12. Class 42.
Saran Protective Coatings Co., Ferndale, Mich. Acid and alkali resisting rubber base protective coating. Serial No. 640,230, Jan. 12. Class 16.
Schaick, Herman J., New Brunswick, N. J. Hair restorer compound. Serial No. 614,365, Jan. 12. Class 18.
Schalk Chemical Company, Los Angeles, Calif. Paint roller and paint brush cleaner. Serial No. 638,215, Jan. 12. Class 52.
Schenley Laboratories, Inc., New York, N. Y. Pharmaceutical product. Serial No. 632,999, Jan. 12. Class 18.
Schenley Laboratories, Inc., New York, N. Y. Compound used in the cleaning of surgical instruments. Serial No. 648,886, Jan. 12. Class 52.
Schering Corporation, Bloomfield, N. J. Antitubercular drug. Serial No. 642,907, Jan. 12. Class 18.
Schmidt, Theodore, doing business as Reliable Supply Company, Milwaukee, Wis. Chemical powder. Serial No. 635,789, Jan. 12. Class 6.
Schott, Walter L., Co., Los Angeles, Calif. Electrical wiring elements and radio and television parts. Serial No. 632,537, Jan. 12. Class 21.
Schweizerische Seidengazefabrik A. G. Societe Suisse de Tissage de Soies a Bluter S. A. : *See*— Swiss Silk bolting Cloth M'fg. Co. Ltd.
Sears, Roebuck and Co., Chicago, Ill. Electric bicycle horns and lights. Serial No. 548,856, Jan. 12. Class 21.
Shirtcraft Company, Inc., The, New York, N. Y. Men's, women's, and boys' jackets. Serial No. 649,188, Jan. 12. Class 39.
Shuford Mills, Incorporated, Hickory, N. C. Cotton braided clothes lines. Serial No. 624,863, Jan. 12. Class 7.
Silicone Waterproofing Corp : *See*— Silicone Waterproofing Corporation.
Silicone Waterproofing Corporation, also trading under the name of Silicone Waterproofing Corp., New Orleans, La. Waterproofing coating compound. Serial No. 608,719, Jan. 12. Class 16.
Silver Stripe Hosiery Corporation, New York, N. Y. Ladies' hosiery. Serial No. 649,673, Jan. 12. Class 39.
6-Volt Lubricating Co. : *See*— North, Joseph M.
Sleepy Time Togs, Inc., New York, N. Y. Turkish bath and beach towels. Serial No. 642,424, Jan. 12. Class 42.
Slumber-Babe, Inc., North Tonawanda, N. Y. Protectors in the nature of a harness. Serial No. 636,389, Jan. 12. Class 40.
Smith, A. P., Manufacturing Company, The, East Orange, N. J. Pipe valves, pipe sleeves, pipe couplings, etc Serial No. 625,638, Jan. 12. Class 13.
Smith, Ben J., Mfg. & Supply Co. : *See*— Smith, Benjamin J.
Smith, Benjamin J., doing business as Ben J. Smith Mfg. & Supply Co., St. Louis, Mo. Kneeling cushions for pews, etc. Serial No. 635,724, Jan. 12. Class 32.
Societe d'Inventions Aeronautiques et Mecaniques, S. I. A. M., Fribourg, Switzerland. Hydraulic, pneumatic, mechanical shock absorbers. Serial No. 622,850, Jan 12. Class 19.
Societe Pour le Traitement et l'Amelioration des Tissus, Paris, France. Textile fabrics. Serial No. 638,981, Jan. 12. Class 42.
Sohn, Ernest, Creations, Incorporated, New York, N. Y. Metal buffet and serving accessories. Serial No. 636,815, Jan. 12. Class 13.
Soloro Ranch : *See*— Worthington, Wm. E.
South Shore Packing Corporation, The, Vermilion, Ohio. Table syrups, food flavoring extracts, pickles, etc. Serial No. 648,888, Jan. 12. Class 46.
Southern Mills, Inc., Atlanta, Ga. Woven fabric covers for flatwork ironers, presses, etc. Serial No. 651,134, Jan. 12. Class 24.
Specialty Battery Company, Madison, Wis. Dry cells, dry cell batteries, and battery packs. Serial No. 609,105, Jan. 12. Class 21.
Spirling Products Co., Inc., Hicksville, N. Y. Television antennas. Serial No. 650,283, Jan. 12. Class 21.
Squirt Company, The Beverly Hills, Calif. Picnic coolers. Serial No. 643,731, Jan. 12. Class 31.
Stern, Louis J., doing business as Post Institute, New York, N. Y. Human hair colloids. Serial No. 633,383, Jan. 12. Class 6.
Stern, Louis J., doing business as Post Institute, New York, N. Y. Human hair colloids. Serial No. 633,387, Jan. 12. Class 6.
Stetson, John B., Company, Philadelphia, Pa. Hats and caps. Serial No. 637,959, Jan. 12. Class 39.
Sun Oil Company, Philadelphia, Pa. Detergency additive concentrate for lubricating oils. Serial No. 647,562, Jan. 12. Class 15.
Sunwarm, Inc., Kingsport, Tenn. Electric radiant heating cables. Serial No. 647,564, Jan. 12. Class 21.
Surface Protection Co., Cleveland, Ohio. Silicone-base transparent water repellent liquid. Serial No. 641,157, Jan. 12. Class 6.
Surveys, Inc., Trenton, N. J. Metallo-plastic valve and pump packings. Serial No. 642,708, Jan. 12. Class 35.
Swiss Silk Bolting Cloth M'fg. Co. Ltd. (also registered to do business under the equivalent names of Schweizerische Seidengazefabrik A. G. Societe Suisse de Tissage de Soies a Bluter S. A., and Fabbrica Svizzera di Veli-Seta per Buratti S. A., Zurich, Switzerland. Nylon fabrics. Serial No. 649,676, Jan. 12. Class 42.
Synthetic Chemicals, Inc., Paterson, N. J. Chemicals. Serial No. 643,733, Jan. 12. Class 6.
Texas Pharmacal Company, San Antonio, Tex. Preparation for hydrophilic ointment. Serial No. 642,498, Jan. 12. Class 18.
Texlite, Incorporated, Dallas, Tex. Porcelain coated metal sheets. Serial No. 628,372, Jan. 12. Class 12.
Textile Machine Works, Reading, Pa. Yarn guide, sinker, and separator point units. Serial No. 649,102, Jan. 12. Class 23.
Thompson-Hayward Chemical Company, Kansas City, Mo. Herbicides, insecticides, fungicides, etc. Serial No. 647,378, Jan. 12. Class 6.
Tomlee Carrier Co., Oconto Falls, Wis. Boat and luggage carrier. Serial No. 652,906, Jan. 12. Class 19.
Trifari, Krussman & Fishel, Inc., Providence, R. I., and New York, N. Y. Pearl jewelry. Serial No. 626,920, Jan. 12. Class 28.
Turco Products, Inc., Los Angeles, Calif. Chemical preparations. Serial No. 628,070, Jan. 12. Class 6.
Turner Hall Corporation, New York, N. Y. Hair waving lotion. Serial No. 634,060, Jan. 12. Class 51.
United American Metals Corporation, Brooklyn, N. Y. Nonferrous metal. Serial No. 651,303, Jan. 12. Class 14.
United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. Serial No. 647,051, Jan. 12. Class 42.
U. S. Electrical Motors, Inc., Los Angeles, Calif. Equipment utilizing electronic controls and switches. Serial No. 602,734, Jan. 12. Class 21.
U. S. Merchandise Mart, Inc., Washington, D. C. Body powder. Serial No. 650,074, Jan. 12. Class 51.
United Wallpaper, Inc., Chicago, Ill. Merchandise display stand. Serial No. 643,572, Jan. 12. Class 32.
Upjohn Company, The, Kalmazoo, Mich. Medicinal preparation. Serial No. 650,557, Jan. 12. Class 18.
Valley Evaporating Company, Yakima, Wash. Grape juice, apple cider, syrup used in making soft drinks, etc. Serial No. 647,247, Jan. 12. Class 45.
Vibrex Fastener Co., Stamford, Conn. Panel fasteners. Serial No. 650,019, Jan. 12. Class 13.
Victor, S. H., doing business as Ames Chemical Company, Detroit, Mich. Chemical preparation. Serial No. 628,378, Jan. 12. Class 6.
Visionez Corporation, The, St. Cloud, Minn. Eyeglass lens blanks. Serial No. 649,107, Jan. 12. Class 26.
Vitosol Corporation, The, Jersey City, N. J. Medicinal preparation. Serial No. 639,296, Jan. 12. Class 18.
Vogarell Products Company : *See* Lewis, Rosemarie.
Voit, W. J., Rubber Corp., Los Angeles, Calif. Tire repair materials. Serial No. 641,482, Jan. 12. Class 35.
Welch, James O., Company, Cambridge, Mass. Candy. Serial No. 653,091, Jan. 12. Class 46.
Wells, Charlie R., Grygla, Minn. Preparation for the treatment of cows. Serial No. 641,406, Jan. 12. Class 18.
West Bend Aluminum Co., West Bend, Wis. Coffee urns incorporating an electric heating unit. Serial No. 649,553, Jan. 12. Class 21.
West End Chemical Company, Oakland, Calif. Borax. Serial No. 646,910, Jan. 12. Class 6.
Western Tool & Manufacturing Company, The, Springfield, Ohio. Mandrels. Serial No. 649,743, Jan. 12. Class 23.
Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric elevators and controls therefor. Serial No. 556,936, Jan. 12. Class 21.
Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Circuit interrupters. Serial No. 634,560, Jan. 12. Class 21.
Wickes Corporation, The, Saginaw, Mich. Carbon brushes. Serial No. 625,873, Jan. 12. Class 21.
Wiegerink, James G., Ridley Park, Pa. Chemical preparation. Serial No. 636,103, Jan. 12. Class 6.
Williamson Candy Company, Chicago, Ill. Candy. Serial No. 632,405, Jan. 12. Class 46.
Wilson & Toomer Fertilizer Co., Jacksonville, Fla. Agricultural spray or dust. Serial No. 647,120, Jan. 12. Class 6.
Woodhouse, Vas., Chemical Co. : *See*— Woodhouse, Vas.
Woodhouse, Vas., doing business as Vas. Woodhouse Chemical Co., Merrick, N. Y. Effervescent drink. Serial No. 643,804, Jan. 12. Class 18.
Worthington, Wm. E., doing business as Soloro Ranch, Camarillo, Calif. Fresh vegetables. Serial No. 635,564, Jan. 12. Class 46.
Wrought Iron Range Company, St. Louis, Mo. Electric apparatus. Serial No. 620,642, Jan. 12. Class 21.
Wrought Iron Range Company, St. Louis, Mo Electric apparatus. Serial No. 620,647, Jan. 12. Class 21.

Wynn Oil Company, Azusa, Calif. Lubricating oil additives. Serial No. 638,232, Jan. 12. Class 15.
Yahr-Lange, Inc., Milwaukee, Wis. Medicine metal boxes which contain a plurality of tubes of insulin. Serial No. 622,968, Jan. 12. Class 18.
Zippo Manufacturing Company, Bradford, Pa. Pocket flint dispenser. Serial No. 647,570, Jan. 12. Class 8.
Zoia Products Co., Inc., Miami, Fla. Powder having odor destroying and hygroscopic qualities. Serial No. 643,133, Jan. 12. Class 6.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Various radioactive pharmaceuticals. 584,488, Jan. 12 ; Serial No. 611,332, published Oct. 20, 1953. Class 18.
Aberfoyle Manufacturing Company, assignee : *See*— Landenberger, J. W., & Co. Inc.
Accles & Pollock Limited, Oldbury, near Birmingham, England. Golf clubs and irons, golf balls, bags, etc. 307,415, renewed Oct. 24, 1953. O. G. Jan. 12. Class 22.
Acme Staple Company, Camden, N. J. Stapling machines, binding machines and tacking machines. 584,571, Jan. 12 ; Serial No. 636,450, published Sept. 1, 1953. Class 23.
Acme Staple Company, Camden, N. J. Staples. 584,572, Jan. 12 ; Serial No. 636,451, published Oct. 27, 1953. Class 13.
Acme Staple Company, Camden, N. J. Staples. 584,573, Jan. 12 ; Serial No. 636,453, published Oct. 27, 1953. Class 13.
Advertising Promotion Products, New York, N. Y. Leather key cases, coin purses, card cases, etc. 584,616, Jan. 12 ; Serial No. 641,115, published Oct. 13, 1953. Class 3.
Afco Sales Corporation, Jersey City, N. J. Medicinal chewing gum. 584,513, Jan 12 ; Serial No. 624,870, published Sept. 29, 1953. Class 18.
Air Associates, Inc., Teterboro, N. J. Passenger safety belts for use in automobiles. 584,593, Jan. 12 ; Serial No. 638,462, published Oct. 20, 1953. Class 19.
Airmaid Hosiery Mills, Dallas, Tex. Women's hosiery. 584,554, Jan. 12 ; Serial No. 634,512, published Oct. 13, 1953. Class 39.
Airmaid Hosiery Mills, Dallas, Tex. Women's hosiery. 584,607, Jan. 12 ; Serial No. 639,976, published Oct. 13, 1953. Class 39.
Ajax Engineering Corporation, Trenton, N. J. Induction furnaces. 584,588, Jan. 12 ; Serial No. 637,979, published Oct. 6, 1953. Class 21.
Akron Brass Mfg. Company, Inc., Wooster, Ohio. Fire hose nozzles and hose line couplings. 584,563, Jan. 12 ; Serial No. 635,945, published Oct. 20, 1953. Class 13.
Albion Malleable Iron Company, Albion, Mich. Unmachined rough malleable castings. 584,493, Jan. 12 ; Serial No. 616,804, published Oct. 27, 1953. Class 14.
All-Power Manufacturing Co., Montebello, Calif. Sink strainers. 584,535, Jan. 12 ; Serial No. 631,967, published Oct. 27, 1953. Class 13.
American Brake Shoe Company, New York, N. Y. Bare and coated welding rods. 584,536, Jan. 12 ; Serial No. 631,971, published Oct. 20, 1953. Class 14.
American Can Company, New York, N. Y. Friction-top cans, coffee-cans, spice-cans, etc. 92,935, Aug. 12, 1913. Republished Jan. 12. Class 2.
American Can Company, New York, N. Y. Can openers, bottle openers, combined can opening and dispensing devices. 307,989, Nov. 14, 1933. Republished Jan. 12. Class 23.
American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Sodium polyanhydromannuronic acid sulfate. 584,653, Jan. 12 ; Serial No. 644,273, published Oct. 6, 1953. Class 18.
American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Antacid preparation. 584,665, Jan. 12 ; Serial No. 644,660, published Oct. 6, 1953. Class 18.
American Instrument Company, Inc., Silver Spring, Md. Temperature and humidity-controlled cabinets. 584,545, Jan. 12 ; Serial No. 633,826, published Oct. 13, 1953. Class 34.
American International Marine Agency of New York, Inc. : *See*— American International Underwriters Corporation.
American International Underwriters Corporation, New York, N. Y., assignee of American International Marine Agency of New York, Inc. Ocean and inland marine insurance agency and brokerage services. 584,715, Jan. 12 ; Serial No. 630,659, published Oct. 20, 1953. Class 102.
American Laundry Machinery Company, The, assignee : *See*— Martin, J. E., Equipment Corporation.
American Lubricants Co., The, Dayton, Ohio. Lubricating grease containing molybdenum. 584,491, Jan. 12 ; Serial No. 614,923, published Oct. 6, 1953. Class 15.
American Lumber & Treating Co., Chicago, Ill. Chemically impregnating forest products. 584,713, Jan. 12 ; Serial No. 603,143, published Oct. 20, 1953. Class 106.
American Medicinal Spirits Company, The, Louisville, Ky., to National Distillers Products Corporation, New York, N. Y. Whiskey. 310,925, renewed Mar. 13, 1954. O. G. Jan. 12. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky., to National Distillers Products Corporation, New York, N. Y. Whiskey. 310,932, renewed Mar. 13, 1954. O. G. Jan. 12. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky., to National Distillers Products Corporation, New York, N. Y. Whiskey. 310,937, renewed Mar. 13, 1954. O. G. Jan. 12. Class 49.
American Scientific Laboratories, Inc., Madison, Wis. Product for removing horns from calves and kids. 584,738, Jan. 12 ; Serial No. 633,701. Class 18.
American Woolen Company, New York, N. Y. Textile fabric. 584,555, Jan. 12 ; Serial No. 634,566, published Oct. 13, 1953. Class 42.
Amplifier Corporation of America, New York, N. Y. Spring motors. 584,583, Jan. 12 ; Serial No. 637,812, published Sept. 1, 1953. Class 23.
Anthes Force Oiler Company, Fort Madison, Iowa. Highway warning signal device. 584,469, Jan. 12 ; Serial No. 576,839, published Sept. 22, 1953. Class 34.
Athos Steel Service, Philadelphia, Pa. Expanded metal. 584,546, Jan. 12 ; Serial No. 633,904, published Oct. 20, 1953. Class 14.
Atlas Fabrics Corporation : *See*— Atlas Mills, Inc.
Atlas Mills, Inc., to Atlas Fabrics Corporation, New York, N. Y. Textile fabrics. 308,237, renewed Nov. 28, 1953. O. G. Jan. 12. Class 42.
Atlas Overhead Door Company, Quakertown, Pa. Doors. 444,782, July 14, 1953. Republished Jan. 12. Class 12.
Automotive Materials Corporation, Detroit, Mich. Vehicle body textile trimming fabrics. 584,620, Jan. 12 ; Serial No. 641,424, published Oct. 13, 1953. Class 42.
Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y. Men's hosiery and more particularly socks, wool and wool mixed hunting socks, etc. 584,611, Jan. 12 ; Serial No. 640,425, published Oct. 20, 1953. Class 39.
Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y. Men's hosiery and more particularly socks, wool and wool mixed hunting socks, etc. 584,612. Jan. 12 ; Serial No. 640,426, published Oct. 13, 1953. Class 39.
Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y. Men's hosiery. 584,625, Jan. 12 ; Serial No. 642,061, published Oct. 13, 1953. Class 39.
Barbet Mills, Inc., Gastonia, N. C. Knitted fabrics. 584,699. Jan. 12 ; Serial No. 647,389, published Oct. 13, 1953. Class 42.
Barnes-Hind Laboratories, San Francisco, Calif. Vitamin preparation. 584,509. Jan. 12 ; Serial No. 623,497, published Sept. 29, 1953. Class 18.
Bass River Tackle Testers, Bass River, Mass. Artificial fishing lure. 584,519, Jan. 12 ; Serial No. 628,739, published Oct. 27, 1953. Class 22.
Battle Creek Dietetic Co., Battle Creek, Mich. Multiple vitamin capsules. 584,547, Jan. 12 ; Serial No. 633,958, published Sept. 29, 1953. Class 18.
Battle Creek Dietetic Co., Battle Creek, Mich. Fortified multiple vitamins and minerals. 584,548, Jan. 12 ; Serial No. 633,959, published Sept. 29, 1953. Class 18.
Bayer Semesan Company, Inc., by E. I. du Pont de Nemours and Company, Wilmington, Del. General horticultural disinfectant. 305,724, Aug. 22, 1933. Republished Jan. 12. Class 6.
Beacon Manufacturing Company, Swannanoa, N. C. Blankets. 584,642, Jan. 12 ; Serial No. 643,754, published Oct. 13, 1953. Class 42.
Bear Brand Hosiery Co., Chicago, Ill. Men's hosiery. 584,522, Jan. 12 ; Serial No. 629,146, published Oct. 13, 1953. Class 39.
Beatty, Clarence A., doing business under the name The Chicken Pickers, San Francisco, Calif. Prepared meals. 584,706, Jan. 12 ; Serial No. 648,720, published Oct. 13, 1953. Class 46.
Beauty Counselors, Inc., Grosse Pointe, Mich. Hair rinse. 584,609, Jan. 12 ; Serial No. 640,321, published Oct. 27, 1953. Class 51.
Bedford Shirt Corp., New York, N. Y. Men's and boys' sport shirts, sport jackets, and sport slacks. 584,674, Jan. 12 ; Serial No. 644,958, published Sept. 22, 1953. Class 39.
Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y. Aluminum, antimony, arsenic, etc. 584,482, Jan. 12 ; Serial No. 608,297, published Oct. 27, 1953. Class 14.

Bennett-Ireland, Inc., Norwich, N. Y. Metal forms for guiding the construction of internal details of fireplaces and to provide heating warm air circulating chambers. 584,651, Jan. 12; Serial No. 644,159, published Sept. 29, 1953. Class 34.

Bensdorp Inc., Boston, Mass., assignor to Bensdorp, N. V., Bussum, Netherlands. Preparation of coca, chocolate, sugar and skim milk powder. 584,723, Jan. 12; Serial No. 572,396. Class 46.

Bensdorp, N. V., assignee: *See*—
Bensdorp Inc.

Bernard Pharmacal Co., Inc., New York, N. Y. Multiple vitamin preparation. 584,486, Jan. 12; Serial No. 610,612, published Oct. 6, 1953. Class 18.

Blevins Popcorn Company: *See*—
Blevins Popcorn Company, Inc.

Blevins Popcorn Company, Inc., doing business as Blevins Popcorn Company, Nashville, Tenn. Unpopped popcorn, oil to be used in popping corn, salt and artificial-butter-flavored salt. 584,489, Jan. 12; Serial No. 612,114, published Oct. 6, 1953. Class 46.

Bolta-Saran, Inc., Lawrence, Mass. Scouring pads. 584,528, Jan. 12; Serial No. 630,661, published Oct. 27, 1953. Class 4.

Booster Chemical Engineering Co.: *See*—
Windsor-Lloyd Products, Inc.

Bourjois, A., & Co., Inc., to Barbara Gould, Inc., New York, N. Y. Rouge, rouge powder, etc. 158,192, Aug. 29, 1922. New certificate. O. G. Jan. 12. Class 51 (formerly Class 6).

Breon George A., & Company, New York, N. Y. Adrenocorticotropic hormone preparation. 584,675, Jan. 12; Serial No. 645,030, published Oct. 20, 1953. Class 18.

Bristol Laboratories Inc., New York, and Syracuse, N. Y. Penicillin compounds. 584,487, Jan. 12; Serial No. 611,218, published Oct. 20, 1953. Class 18.

Bromfield, Louis, assignee: *See*—
Geld, Ellen B.

Brooks Oil Company, The, Cleveland, Ohio. Petroleum base lubricant, surface conditioner and coating oil. 584,680, Jan. 12; Serial No. 645,388, published Oct. 13, 1953. Class 15.

Brookville Glove Company, Brookville, Pa. Household and garden gloves. 584,608, Jan. 12; Serial No. 640,034, published Aug. 18, 1953. Class 39.

Bryn Mawr Laboratories: *See*—
Malcolm, Fred S.

California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif., to California Spray-Chemical Corporation, Richmond, Calif. Fungicides. 306,966, renewed Oct. 10, 1953. O. G. Jan. 12. Class 6.

California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif., to California Spray-Chemical Corporation, Richmond, Calif. Insecticidal, germicidal, and fungicidal sprays. 306,967, renewed Oct. 10, 1953. O. G. Jan. 12. Class 6.

California Wire Cloth Corporation, The, Oakland, Calif., assignor to The Colorado Fuel and Iron Corporation, Denver, Colo. Single-stranded wire. 584,497, Jan. 12; Serial N. 618,443, published Oct. 6, 1953. Class 14.

Capital City Products Company, The: *See*—
Moxley, Wm. J., Inc.

Carpenter Steel Company, The, Reading, Pa. Tool steels. 244,863, July 31, 1928. Republished Jan. 12. Class 14.

Carrington and Company, Limited, Calgary, Alberta, Canada. Whiskey. 584,745, Jan. 12; Serial No. 645,867. Class 49.

Carson, Albert, doing business as Noblis Mills, to Noblis Corporation, New York, N. Y. Hosiery and underwear. 306,313, renewed Sept. 12, 1953. O. G. Jan. 12. Class 39.

Carter Coal Company, Washington, D. C., by Olga Coal Company, Youngstown, Ohio. Coal. 309,148, Jan. 2, 1934. Republished Jan. 12. Class 1.

Cavitron Corporation, New York, N. Y. Leasing of equipment to be used for precision cutting of hard materials. 584,714, Jan. 12; Serial No. 619,738, published Oct. 20, 1953. Class 103.

Cerium Metals Corporation, New York, N. Y. Mischmetal alloy in ingot, pellet, and rod form. 584,542, Jan. 12; Serial No. 633,299, published Oct. 20, 1953. Class 14.

Chicago Pharmacal Company, Chicago, Ill. Medicinal preparation. 584,684, Jan. 12; Serial No. 645,696, published Oct. 20, 1953. Class 18.

Chicken Pickers, The: *See*—
Beatty, Clarence A.

Chiksan Company, Houston, Tex. Tool joint compound, namely a mixture of powdered lead, powdered graphite, lubricating oil, etc. 584,533, Jan. 12; Serial No. 651,468, published Oct. 13, 1953. Class 15.

Chili Products Corporation Ltd., Los Angeles, Calif. Chili powder and chili pepper. 584,626, Jan. 12; Serial No. 642,197, published Oct. 20, 1953. Class 46.

Circofire Spark Plug Company, Hamtramck, Mich. Spark plugs. 584,503, Jan. 12; Serial No. 620,591, published Oct. 6, 1953. Class 21.

Claremont Pigment Dispersion Corporation, Brooklyn, N. Y. Liquid light refractory frost coating. 584,472, Jan. 12; Serial No. 593,650, published Oct. 27, 1953. Class 6.

Clark Equipment Company, Buchanan, Mich. Power operated industrial lift trucks. 584,594, Jan. 12; Serial No. 638,695, published Sept. 1, 1953. Class 23.

Clark-Millner Sales Company: *See*—
Straub, W. F., & Company.

Collins & Aikman Corporation, Philadelphia, Pa. Yarns. 584,701, Jan. 12; Serial No. 647,601, published Oct. 20, 1953. Class 43.

Collins, Lee Company, Chelsea, Mass. Fresh fish, salted fish, frozen fish, etc. 584,617, Jan. 12; Serial No. 641,126, published Oct. 6, 1953. Class 46.

Colorado Fuel and Iron Corporation, The, assignee: *See*—
California Wire Cloth Corporation, The.

Consolidated Companies, Inc., Plaquemine, La. Canned fruits, canned vegetables, canned fruit juices and canned vegetable juices, etc. 584,460, Jan. 12; Serial No. 495,352, published Oct. 30, 1951. Class 46.

Continental Mills, Inc., Philadelphia, Pa. Knitted and woven fabrics. 584,527, Jan. 12; Serial No. 630,124, published Oct. 13, 1953. Class 42.

Cool Maid Candy Company, by J. Fish Smith, doing business as Fruzola Company, Salt Lake City, Utah. Powder for making nonalcoholic maltless soft drinks. 364,784, Feb. 14, 1939. Republished Jan. 12. Class 45.

Cranguyma Farms Products: *See*—
Myers, Guy C.

Crawford, A. & A., Limited, Leith, Scotland. Scotch whisky. 584,736, Jan. 12; Serial No. 630,764. Class 49.

Cris-Krisp Company, Oswego, N. Y. Lettuce. 584,559, Jan. 12; Serial No. 635,408, published Oct. 13, 1953. Class 46.

Crown Zellerbach Corporation, doing business as The National Paper Products Co. and Nata Products Company, San Francisco, Calif. Paper towels. 584,462, Jan. 12; Serial No. 542,007, published Oct. 6, 1953. Class 37.

Crystal, David, Inc., New York, N. Y. Ladies' and misses' dresses, skirts, coats, dress and jacket ensembles, etc. 584,693, Jan. 12; Serial No. 646,532, published Oct. 20, 1953. Class 39.

Cutler, Jess & C. A., Inc., Columbus, Ga. Wire chinchilla cages. 584,694, Jan. 12; Serial No. 646,536, published Oct. 27, 1953. Class 3.

D. F. oK. Lynfrost A/S, Esbjerg, Denmark. Fresh frozen flounder and haddock fillets. 584,529, Jan. 12; Serial No. 631,094, published Oct. 6, 1953. Class 46.

Danenberg, Danny: *See*—
Danenberg, J. S.

Danenberg, J. S., doing business as Danny Danenberg, El Centro, Calif. Fresh vegetables. 584,544, Jan. 12; Serial No. 633,715, published Oct. 6, 1953. Class 46.

Darling Valve & Manufacturing Company, Williamsport, Pa. Fire hydrants. 584,644, Jan. 12; Serial No. 643,820, published Oct. 27, 1953. Class 13.

Davis, George W., to A. S. D. Johnson, Manorville, N. Y. Cranberries. 95,405, re-renewed Feb. 17, 1954. O. G. Jan. 12. Class 46.

Davison Chemical Corporation, The, Baltimore, Md. Packaged silica gel adsorbent material, employed particularly as a desiccant. 584,733, Jan. 12; Serial No. 629,360. Class 6.

Day's Tailor-D Clothing, Inc., Tacoma, Wash. Trousers and jackets. 584,483, Jan. 12; Serial No. 608,495, published Sept. 8, 1953. Class 39.

D'Ella, B., & Son, New York, N. Y. Pearls. 584,739, Jan. 12; Serial No. 635,289. Class 28.

Dennison Manufacturing Company: *See*—
Freydberg Brothers, Incorporated.

Dentists' Supply Company of New York, The, York, Pa. Artificial teeth. 584,704, Jan. 12; Serial No. 648,237, published Oct. 27, 1953. Class 44.

Digby Products Ltd., White Plains, N. Y. Leather loose leaf binders, removable ring binders, and loose leaf books. 584,476, Jan. 12; Serial No. 600,037, published Oct. 6, 1953. Class 37.

Di Montelera, Theo R., Turin, Italy. Hats. 584,475, Jan. 12; Serial No. 597,876, published Sept. 1, 1953. Class 39.

Dittmer Gear and Manufacturing Corp., Lockport, N. Y. Spur and helical gears, shafts, hubs, etc. 584,526, Jan. 12; Serial No. 629,656, published Sept. 15, 1953. Class 23.

Dokoris and Argyris, Corona, N. Y. Correspondence envelopes. 584,549, Jan. 12; Serial No. 634,076, published Oct. 6, 1953. Class 37.

Dorman, N., & Co., Inc. (N. Y.), New York, N. Y. Cheese. 584,686, Jan. 12; Serial No. 645,786, published Oct. 6, 1953. Class 46.

Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette tables and chairs. 584,744, Jan 12; Serial No. 642,737. Class 32.

Downs, Mohl & Co. (not Inc.), Chicago, Ill. Bookkeeping and accounting services, and tax service. 584,712, Jan. 12; Serial No. 545,729, published Oct. 20, 1953. Class 101.

Duke Laboratories, Inc., Stamford, Conn. Base for ointments. 584,615, Jan. 12; Serial No. 641,024, published Oct. 20, 1953. Class 18.

Du Pont, E. I., de Nemours and Company: *See*—
Beaver Semesan Company, Inc.

Eagle Electric Manufacturing Co., Inc., Long Island City, N. Y. Electrical apparatus. 584,518, Jan. 12; Serial No. 628,262, published Apr. 28, 1953. Class 21.

Eastern Knitwear Co., Inc., New York, N. Y. Ladies' sweaters. 584,640, Jan. 12; Serial No. 643,667, published Sept. 22, 1953. Class 39.

Edward, Bernard, Company, Chicago, Ill. Supplies for pets—namely bird cages, etc. 584,537, Jan. 12; Serial No. 631,982, published Oct. 13, 1953. Class 3.

Ehrlich, Irving, Brooklyn, N. Y. Cough drops. 584,734, Jan. 12; Serial No. 630,481. Class 18.

Electro Surgical Instrument Co., Rochester, N. Y. Physicians' and surgeons' instruments. 584,603, Jan. 12; Serial No. 639,467, published Oct. 27, 1953. Class 44.

Elgin National Watch Company, Elgin, Ill. Watch movements. 93,432, Sept. 16, 1913. Republished Jan. 12. Class 27.

Elgin Sweeper Company, Elgin, Ill. Power operated, pneumatic spraying apparatus. 584,520, Jan. 12; Serial No. 628,748, published Mar. 24, 1953. Class 23.

Ely, George L., St. Petersburg, Fla. Architectural services. 584,719, Jan. 12; Serial No. 641,919, published Oct. 20, 1953. Class 100.

Elysee Cosmetic Manufacturing Co., San Francisco, Calif. Skin therapy machines. 584,703, Jan. 12; Serial No. 648,162, published Oct. 27, 1953. Class 44.

Empresa Nacional de Autocamiones S. A., Madrid, Spain. Automobiles and trucks. 584,530, Jan. 12; Serial No. 631,206, published Oct. 20, 1953. Class 19.

Etheraft Chemical Company, Jacksonville, Fla. Medicine, produced and sold in both elixir and tablet form, which medicine is used as an antispasmodic and sedative. 584,485, Jan. 12; Serial No. 610,264, published Sept. 29, 1953. Class 18.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Metallic welding electrodes. 584,619, Jan. 12; Serial No. 641,375, published Oct. 20, 1953. Class 14.

Falchney Instrument Corporation, Watertown, N. Y. Clinical thermometer. 584,705, Jan. 12; Serial No. 648,240, published Oct. 27, 1953. Class 44.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Water-repellent impregnating agent. 584,584, Jan. 12; Serial No. 637,819, published Oct. 27, 1953. Class 6.

Farmcraft Feeds, Inc., Des Moines, Iowa. Mineral feed supplement. 584,517, Jan. 12; Serial No. 627,933, published Sept. 29, 1953. Class 18.

Finer Chrome Products Co., Inc., New York, N. Y. Furniture. 584,737, Jan. 12; Serial No. 632,117. Class 32.

Firestone Tire & Rubber Company, The, Akron, Ohio. Elastic thread. 584,479, Jan. 12; Serial No. 607,986, published Oct. 20, 1953. Class 43.

Fitzgibbons Co., Framingham, Mass. Misses' rain coats and capes. 584,656, Jan. 12; Serial No. 644,400, published Sept. 22, 1953. Class 39.

Flandria Cycle Corporation, New York, N. Y. Bicycles. 584,710, Jan. 12; Serial No. 651,099, published Oct. 27, 1953. Class 19.

Flour Mills of America, Inc.: *See*—
Kansas Flour Mills Corporation, The.
Valier & Spies Milling Co.

Foley Manufacturing Company, Minneapolis, Minn. Pastry frames, spatulas, juicers, saw setters, etc. 584,578, Jan. 12; Serial No. 637,367, published Sept. 15, 1953. Class 23.

Foster-Milburn Co., Buffalo, N. Y. Medicated jelly. 584,657, Jan. 12; Serial No. 644,407, published Sept. 29, 1953. Class 18.

Foy Paint Company, Inc., The, doing business as The R. F. Johnston Paint Company, Cincinnati, Ohio. Interior flat wall paint. 584,741, Jan. 12; Serial No. 636,009. Class 16.

Freydberg Brothers, Incorporated, New York, N. Y., to Dennison Manufacturing Company, Framingham, Mass. Ribbon for tying packages and other uses. 309,770, renewed Jan. 30, 1954. O. G. Jan. 12. Class 7.

Freydberg, G., H. & E., Inc., New York, N. Y. Dolls. 584,708, Jan. 12; Serial No. 650,700, published Oct. 20, 1953. Class 22.

Frielich Brothers Corporation, New York, N. Y. Men's, women's, and children's visors. 584,568, Jan. 12; Serial No. 636,279, published Sept. 22, 1953. Class 39.

Frielich Brothers Corporation, New York, N. Y. Men's, women's, and children's visors. 584,569, Jan. 12; Serial No. 636,281, published Sept. 22, 1953. Class 39.

Fromson Orban Company, Inc., New York, N. Y. Aluminum alloys. 584,690, Jan. 12; Serial No. 645,975, published Oct. 20, 1953. Class 14.

Fruzola Company: *See*—
Cool Maid Candy Company.

Gaudin, Olivier, Paris, France. Choleretic, azoturic and anti-allergic product. 584,470, Jan. 12; Serial No. 581,765, published Sept. 29, 1953. Class 18.

Geigy Company, Inc., New York, N. Y. Tanning materials and chemical products. 309,202, renewed Jan. 9, 1954. O. G Jan. 12. Class 6.

Geld, Ellen B., assignor to L. Bromfield, Lucas, Ohio. Wild blackberry jelly, marmalade, peach butter, etc. 584,556, Jan. 12; Serial No. 635,086, published Oct. 6, 1953. Class 46.

General Latex and Chemical Corporation, Cambridge, Mass. Natural or synthetic latex compound. 584,663, Jan. 12; Serial No. 644,550, published Oct. 13, 1953. Class 1.

Gilbey, W. & A., Limited, London, England, to W. & A. Gilbey, Ltd., New York, N. Y. Whiskey, gins, cocktails, etc. 310,980, renewed Mar. 13, 1954. O. G. Jan. 12. Class 49.

Gilbey, W. & A., Ltd.: *See*—
Gilbey, W. & A., Limited.

Glenmore Distilleries Co., Owensboro, to Glenmore Distilleries Company, Louisville, Ky. Whiskey. 308,780, renewed Dec. 19, 1953. O. G. Jan. 12. Class 49.

Glenmore Distilleries Company: *See*—
Glenmore Distilleries Co.

Glu-Pen Corporation, Wilmington, Del., and New York, N. Y. Glue. 584,579, Jan. 12; Serial No. 637,371, published Oct. 27, 1953. Class 5.

Goodman, H., & Sons, Inc., Jersey City, N. J., and New York, N. Y. Barrettes and hair combs. 584,695, Jan. 12; Serial No. 646,863, published Oct. 20, 1953. Class 40.

Gould, Barbara, Inc.: *See*—
Bourjois, A., & Co., Inc.

Grassfield Jefferson Cafeteria: *See*
Grassfield, John S.

Grassfield, John S., doing business as Grassfield Jefferson Cafeteria, Bloomington, Ill. Restaurant services. 584,717, Jan. 12; Serial No. 640,792, published Oct. 20, 1953. Class 100.

Hamilton Watch Company, Lancaster, Pa. Watches. 584,501, Jan. 12; Serial No. 620,210, published Aug. 18, 1953. Class 27.

Hamilton's, Inc., Columbia, S. C. Finger rings. 584,742, Jan. 12; Serial No. 636,705. Class 28.

Harper-Wyman Company, Chicago, Ill. Gas valves. 584,575, Jan. 12; Serial No. 636,980, published Sept. 15, 1953. Class 34.

Hartford Products Corporation, to The Hartford Products Corporation, Hartford, Conn. Coffee makers. 307,082, renewed Oct. 17, 1953. O. G. Jan. 12. Class 13.

Hartford Products Corporation, The: *See*—
Hartford Products Corporation.

Hat Corporation of America, Norwalk, Conn. Hats. 584,645, Jan. 12; Serial No. 643,903, published Sept. 1, 1953. Class 39.

Heath, L. S., & Sons, Inc., Robinson, Ill. Candy. 584,581, Jan. 12; Serial No. 637,773, published Oct. 13, 1953. Class 46.

Hendirin Company: *See*—
Hendler, Maurice A.

Hendler, Maurice A., doing business under the name Hendirin Company, Los Angeles, Calif. Aspirin tablets. 584,630, Jan. 12; Serial No. 642,551, published Oct. 6, 1953. Class 18.

Hiawatha Equipment Company, Manistique, Mich. Animal equipment—namely, cages, etc. 584,567, Jan. 12; Serial No. 636,129, published Oct. 13, 1953. Class 3.

Holiday, Inc., New York, N. Y. Perfume. 584,601, Jan. 12; Serial No. 639,329, published Oct. 27, 1953. Class 51.

Holthouse & Hartup, Inc., Waynesboro, Tenn. Striking tool handles. 584,480, Jan. 12; Serial No. 608,004, published Sept. 15, 1953. Class 23.

Hook & Ackerman, Inc., Philadelphia, Pa. Gas fired boilers, conversion burners, and unit heaters. 584,477, Jan. 12; Serial No. 602,262, published Sept. 15, 1953. Class 34.

Hoover Company, The, North Canton, Ohio. Toy suction cleaners. 584,709, Jan. 12; Serial No. 650,709, published Oct. 27, 1953. Class 22.

Horlicks Limited, Slough, England. Medicinal preparations. 584,633, Jan. 12; Serial No. 643,102, published Oct. 20, 1953. Class 18.

Horton Manufacturing Company, The, Bristol, to Union Hardware Company, Torrington, Conn. Golf irons. 308,163, renewed Nov. 21, 1953. O. G. Jan. 12. Class 22.

Horton, William S. S., Lynbrook, N. Y. Salve against athlete's foot. 584,523, Jan. 12; Serial No. 629,244, published Oct. 20, 1953. Class 18.

House of Huston, Inc., Coral Gables, Fla. Medicated dog shampoo. 584,743, Jan. 12; Serial No. 637,252. Class 52.

Howarth, John F.: *See*—
Howarth, John F., Inc.

Howarth, John F., Inc., Long Beach, to J. F. Howarth, Jamaica, N. Y. Automatic vaive. 309,011, renewed Dec. 26, 1953. O. G. Jan. 12. Class 23.

Hon Chemische Industrie G. m. b. H., Freiburg-Littenweiler (Breisgau), Germany. Pharmaceutical products. 584,590, Jan. 12; Serial No. 638,118, published Sept. 29, 1953. Class 18.

Industrial Soap Company, St. Louis, Mo. Floor wax soap and scouring cleansers. 584,560, Jan. 12; Serial No. 635,416, published Oct. 27, 1953. Class 4.

Institute of Radio Engineers, Inc., The, New York, N. Y. Establishment and maintenance of membership in an international technical society. 584,722, Jan. 12; Serial No. 632,479, published Oct. 6, 1953. Class 100.

International Milling Company, Minneapolis, Minn. Wheat flour. 307,135, renewed Oct. 17, 1953. O. G. Jan. 12. Class 46.

Irwin, Neisler & Company, Decatur, Ill. Tablets for the relief of hypertension. 584,670, Jan. 12; Serial No. 644,757, published Oct. 13, 1953. Class 18.

Irwin, Neisler & Company, Decatur, Ill. Tablets for the treatment of hypertension. 584,671, Jan. 12; Serial No. 644,758, published Oct. 6, 1953. Class 18.

Jackson, Byron, Co., Los Angeles, Calif. Pumps. 584,646, Jan. 12; Serial No. 643,961, published Sept. 1, 1953. Class 23.

Jeffrey-Allan Industries: *See*—
Kulwin, Seymour.

Jerks Socks, Inc., Cincinnati, Ohio. Men's, women's, and children's hosiery. 584,599, Jan. 12; Serial No. 639,117, published June 2, 1953. Class 39.

Johns-Manville Corporation, New York, N. Y. Asbestos-cement pipe couplings. 584,468, Jan. 12; Serial No. 574,036, published Oct. 27, 1953. Class 12.

Johnson, Alliene S. D.: *See*—
Davis, George W.

Johnson, R. F., Paint Company, The: *See*—
Foy Paint Company, Inc., The.

Johnston, James C., Fort Lauderdale, Fla. Preformed sewer pipe joints. 584,499, Jan. 12; Serial No. 619,139, published Oct. 27, 1953. Class 12.

Kaiser, Henry J., Company, Oakland, Calif. Constructing and repairing of chemical processing plants, airfields, etc. 584,721, Jan. 12; Serial No. 648,025, published Oct. 20, 1953. Class 103.

Kansas Flour Mills Corporation, The, to Flour Mills of America, Inc., Kansas City, Mo. Wheat flour. 307,888, renewed Nov. 7, 1953. O. G. Jan. 12. Class 46.

Kardomah Limited: *See*—
Liverpool China & India Tea Company, Limited, The.

Kendall Company, The, Boston, Mass. Children's play nurse uniforms. 584,635, Jan. 12; Serial No. 643,165, published Oct. 13, 1953. Class 39.

King Paint Roller, Inc., Detroit, Mich. Device made of wire and cloth and intended to be hooked inside a can of paint and adapted to carry paint to be picked up by a paint applying roller. 584,727, Jan. 12; Serial No. 623,769. Class 29.

Kingsbury Breweries Company, Manitowoc, Wis. Beer. 308,986–7, renewed Dec. 26, 1953. O. G. Jan. 12. Class 48.

Kingsbury Breweries Company, Manitowoc, Wis. Beer. 309,367, renewed Jan. 9, 1954. O. G. Jan. 12. Class 48.

Klenzade Products, Incorporated, Beloit, Wis. Detergents. 584,512, Jan. 12; Serial No. 624,550, published Oct. 27, 1953. Class 52.

Kroger Co., The, Cincinnati, Ohio. Frozen fresh fish, frozen cooked fish. 584,664, Jan. 12; Serial No. 644,620, published Oct. 20, 1953. Class 46.

Kulwin, Seymour, doing business as Jeffrey-Allan Industries, Chicago, Ill. Dashboard trays, and decorative devices for motor vehicles. 584,508, Jan. 12; Serial No. 622,899, published Oct. 27, 1953. Class 19.

Lafayette Pharmacal Inc., Lafayette, Ind. Gall bladder stimulant. 584,495, Jan. 12; Serial No. 618,047, published Sept. 29, 1953. Class 18.

Lalla, John F., Company, Chicago, Ill. Macaroni, spaghetti, noodles, etc. 94,007, re-renewed Oct. 28, 1953. O. G. Jan. 12. Class 46.

Landenberger, J. W., & Co. Inc., assignor to Aberfoyle Manufacturing Company, Philadelphia, Pa. Hosiery. 584,592, Jan. 12; Serial No. 638,424, published Oct. 13, 1953. Class 39.

Laughlin, Alexander, Portland, Maine. Hair depilatory. 584,632, Jan. 12; Serial No. 642,823, published Oct. 27, 1953. Class 51.

Lebow Bros., Inc., Baltimore, Md. Men's suits and sports coats. 584,673. Jan. 12; Serial No. 644,850, published Sept. 22, 1953. Class 39.

Lee-Wald Garment Company, Kansas City, Mo. Boys' garments. 584,484, Jan. 12; Serial No. 609,730, published Oct. 20, 1953. Class 39.

Leeds Ltd. Coats, Inc., New York, N. Y. Piece goods. 584,746, Jan. 12; Serial No. 647,782. Class 42.

Leyse Aluminum Company, Kewaunee, Wis. Drip coffee makers. 584,562, Jan. 12; Serial No. 635,921, published Apr. 7, 1953. Class 13.

Librascope, Incorporated, Glendale, Calif. Boring machines. 584,648, Jan. 12; Serial No. 644,040, published Sept. 1, 1953. Class 23.

Life-Time Battery Corporation of America, New Braunfels, Tex. Storage battery. 584,500, Jan. 12; Serial No. 619,250, published July 22, 1952. Class 21.

Lilly, Eli, and Company, Indianapolis, Ind. Hypnotic medicinal tablets. 311,538, renewed Mar. 27, 1954. O. G. Jan. 12. Class 18.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 584,576, Jan. 12; Serial No. 637,060, published Oct. 20, 1953. Class 18.

Lincoln Engineering Company, St. Louis, Mo. Portable and stationary air-operated pumping apparatus. 584,461, Jan. 12; Serial No. 527,143, published Sept. 15, 1953. Class 23.

Lipton, Thomas J., Inc., Hoboken, N. J. Soup mixes. 584,696, Jan. 12; Serial No. 647,082, published Oct. 6, 1953. Class 46

Liverpool China & India Tea Company, Limited, The, to Kardomah Limited, Liverpool, England. Tea. 41,974, re-renewed Feb. 2, 1954. O. G. Jan. 12. Class 46.

Locaters, Incorporated, The, Minneapolis, Minn. Broking of real estate and businesses. 584,718, Jan. 12; Serial No. 641,624, published Oct. 6, 1953. Class 102.

Long, W. E., Co., The, Chicago, Ill. Bread. 584,570–1, Jan. 12; Serial Nos. 634,148–9, published Oct. 6, 1953. Class 46

Lord Jeff Knitting Company, Boston, Mass., to Lord Jeff Knitting Company, Incorporated, Brooklyn, N. Y. Men's, women's, and children's wearing apparel. 308,056, renewed Nov. 21, 1953. O. G. Jan. 12. Class 39.

Lord Jeff Knitting Company, Incorporated: *See*—
Lord Jeff Knitting Company.

Macklanburg-Duncan Company, Oklahoma City, Okla. Combination cleaning, polishing and coating wax. 584,725, Jan. 12; Serial No. 618,091. Class 4.

Maclean Company, The, Newark, N. J. Collar stays. 584,732, Jan. 12; Serial No. 628,158. Class 40.

Mailometer Company, Detroit, Mich., by Pitney-Bowes, Inc., Stamford, Conn. Combined sealing and stamping machines and sealing machines. 93,103, Aug. 19, 1913. Republished Jan. 12. Class 23.

Maison Duffée Inc., New York, N. Y. Shawls or stoles. 584,647, Jan. 12; Serial No. 643,968, published Sept. 22, 1953. Class 39.

Maison Jeurelle, Inc., Chicago, Ill., by Seventeen, Rye, N. Y. Perfume. 304,152, June 20, 1933. Republished Jan. 12. Class 51.

Majestic Rayon Corporation, New York, N. Y. Synthetic yarn. 584,698, Jan. 12; Serial No. 647,303, published Oct. 20, 1953. Class 43.

Makowsky, Jacques, Pomfret Center, Conn. Dressed poultry. 584,662, Jan. 12; Serial No. 644,507, published Oct. 6, 1953. Class 46.

Malcolm, Fred S., doing business under the name and style of Bryn Mawr Laboratories, Bryn Mawr, Pa. Medicinal preparations. 584,685, Jan. 12; Serial No. 645,720, published Oct. 20, 1953. Class 18.

Malcom Kenneth Co., Boston, Mass. Men's topcoats, overcoats, sport coats, etc. 584,687, Jan. 12; Serial No. 645,809, published Oct. 13, 1953. Class 39.

Manhattan Novelty Corporation, New York, N. Y. Wallets, billfolds, and traveling cases. 584,676, Jan. 12; Serial No. 645,047, published Oct. 13, 1953. Class 3.

Manufactures de Senones (Vosges) Société à Responsabilité Limitée, Paris, France. Textile fabrics. 584,585, Jan. 12; Serial No. 637,834, published Oct. 13, 1953. Class 42.

Marshall Field & Company, Chicago, Ill. Women's and children's dresses, suits, jackets, etc. 307,432, renewed Oct. 24, 1953. O. G. Jan. 12. Class 39.

Martin Equipment Corporation: *See*—
Martin, J. E., Equipment Corporation.

Martin, J. E., Equipment Corporation, Buffalo, N. Y., now by change of name, Martin Equipment Corporation, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Dry-cleaning machines. 584,494, Jan. 12; Serial No. 617,090, published Oct. 6, 1953. Class 24.

Massachusetts Heating Corporation, Cambridge, Mass. Oil, gas and coal burners, oil, gas and coal boiler-burner units, etc. 584,490, Jan. 12; Serial No. 612,211, published Sept. 1, 1953. Class 34.

Master Appliance Mfg. Co., Racine, Wis. Blower wheels for use in moving air in various appliances such as hair dryers. 584,618, Jan. 12; Serial No. 641,314, published Oct. 13, 1953. Class 34.

May Hosiery Mills, Nashville, Tenn. Men's, women's, and children's hosiery, knitted underwear, knitted T shirts, etc. 584,557, Jan. 12; Serial No. 635,092, published Oct 20, 1953. Class 39.

McKinney, C. D., Georgetown, S. C. Laxative. 584,740, Jan. 12; Serial No. 635,486. Class 18.

Megs Macaroni Company, Harrisburg, Pa. Alimentary pastes. 584,726, Jan. 12; Serial No. 623,631. Class 46.

Merck & Co., Inc., Rahway, N. J. Antibiotics. 584,627, Jan. 12; Serial No. 642,235, published Oct. 6, 1953. Class 18.

Merck & Co., Inc., Rahway, N. J. Combinations of antibiotics and hormonal substances for medicinal use. 584,666–7, Jan. 12; Serial Nos. 644,680–1, published Oct. 6, 1953. Class 18.

Merck & Co., Inc., Rahway, N. J. Combinations of antibiotics and hormonal substances for medicinal use. 584,668, Jan. 12; Serial No. 644,683, published Oct. 6, 1953. Class 18.

Merit Clothing Company, Mayfield, Ky. Men's topcoats. 584,672, Jan. 12; Serial No. 644,770, published Sept. 22, 1953. Class 39.

Michaels, Stern & Company, Incorporated, Rochester, N. Y. Men's and boys' clothing. 584,631, Jan. 12; Serial No. 642,564, published Sept. 22, 1953. Class 39.

Midvale Chemical Company, Lodi, N. J. Chemical preparation for control of chronic respiratory disease in chickens. 584,654, Jan. 12; Serial No. 644,330, published Oct. 6, 1953. Class 18.

Miller, E. S., Laboratories, Inc., Los Angeles, Calif. Antipyretic and mild analgesic. 584,655, Jan. 12; Serial No. 644,332, published Sept. 29, 1953. Class 18.

Miller, E. S., Laboratories, Inc., Los Angeles, Calif. Analgesic anti-pyretic and antispasmodic preparation. 584,682, Jan. 12; Serial No. 645,582, published Oct. 20, 1953. Class 18.

Miller, James S., Trenton, N. J. Occlusal plane recorders. 584,602, Jan. 12; Serial No. 639,335, published Oct. 27, 1953. Class 44.

Mima Sewing Machine Mfg. Co., Ltd., Fukushima-Ku, Osaka, Japan. Sewing machines. 584,539, Jan. 12; Serial No. 632,644, published Sept. 15, 1953. Class 23.

Mima Sewing Machine Mfg. Co., Ltd., Fukushima-Ku, Osaka, Japan. Sewing machines. 584,586, Jan. 12; Serial No. 637,845, published Sept. 15, 1953. Class 23.

Moe Light, Inc., Fort Atkinson, Wis. Electric lighting fixtures and parts thereof. 584,605, Jan. 12; Serial No. 639,702, published Sept. 1, 1953. Class 21.

Moody Bible Institute of Chicago, The, Chicago, Ill. Providing religious educational services. 584,747, Jan. 12; Serial No. 641,198. Class 107.

Mooresville Mills, Inc., Mooresville, N. C. Piece goods. 584,649, Jan. 12; Serial No. 644,050, published Oct. 20, 1953. Class 42.

Moran Shoe Company: *See*—
Moran Shoe Company, Inc., The.

Moran Shoe Company, Inc., The, by Moran Shoe Company, Carlyle, Ill. Shoes. 303,794, June 6, 1933. Republished Jan. 12. Class 39.

Moran Shoe Company, Inc., The, by Moran Shoe Company, Carlyle, Ill. Shoes. 305,669, Aug. 22, 1933. Republished Jan. 12. Class 39.

Morton's, Washington, D. C. Hosiery. 584,595, Jan. 12; Serial No. 638,734, published Oct. 20, 1953. Class 39.

Moskowitz, Morris, Corp., New York, N. Y. Pocketbooks. 584,637, Jan. 12; Serial No. 643,498, published Oct. 20, 1953. Class 3.

Mother's Food Products, Inc., Newark, N. J. Sweet pickled pimentos. 584,558, Jan. 12; Serial No. 635,191, published Oct. 6, 1953. Class 46.

Motor Products Corporation, Detroit, Mich., and North Chicago, Ill. Glass bottle. 584,724, Jan. 12; Serial No. 613,341. Class 33.

Moxley, Wm. J., Inc., Chicago, Ill., by The Capital City Products Company, Columbus, Ohio. Butterin or margarin. 122,730, Sept. 10, 1918. Republished Jan. 12. Class 46.

Moyer, Walter W., Company, Ephrata, Pa. Underwear and sleeping garments. 584,492, Jan. 12; Serial No. 616,436, published Sept. 16, 1952. Class 39.

Mundet Cork Corporation, North Bergen, N. J. Articles made of natural cork, of cork particles, etc., namely cork insulation, etc. 584,552, Jan. 12; Serial No. 634,210, published Oct. 27, 1953. Class 12.

Myers, Guy C., doing business as Cranguyma Farms Products, Long Beach, Wash. Cranberry jam and jelly and cranberry syrup. 584,580, Jan. 12; Serial No. 637,603, published Oct. 6, 1953. Class 46.

Nancy Ann Storybook Dolls, Inc., San Francisco, Calif. Dolls. 584,534, Jan. 12; Serial No. 631,940, published Oct. 20, 1953. Class 22.

Narby, J., Brooklyn, N. Y. Dog collars, leads and harnesses; key cases and key holders. 584,643, Jan. 12; Serial No. 643,781, published Oct. 20, 1953. Class 3.

Narrow Fabric Co., The, Wyomissing, to The Narrow Fabric Company, West Reading, Pa. Garment-lacers and shoe-lacers. 94,301, re-renewed Nov. 25, 1953. O. G. Jan. 12. Class 40.

Narrow Fabric Company, The: *See*—
Narrow Fabric Co., The.

Nata Products Company: *See*—
Crown Zellerbach Corporation.

National Distillers Products Corporation: *See*—
American Medicinal Spirits Company, The.

National Milling and Chemical Company, Philadelphia, Pa. Soap compound, soap for laundry use, soap for textile trade, etc. 302,130, Mar. 28, 1933. Republished Jan. 12. Classes 4 and 52.

National Paper Products Co., The: *See*—
Crown Zellerbach Corporation.

National Supply Company, The, Pittsburgh, Pa. Ferrous metal, oil well casing and oil well tubing. 584,636, Jan. 12; Serial No. 643,432, published Oct. 20, 1953. Class 13.

New York & New Jersey Lubricant Company, New York, N. Y. Lubricating oils, lubricating oil compositions, etc. 310,104, renewed Feb. 13, 1954. O. G. Jan. 12. Class 15.

Niagara Blower Company, Buffalo, N. Y. Inter and after coolers for air or gas compressors, engine jacket water coolers, dehumidifiers, etc. 584,464, Jan. 12; Serial No. 545,518, published Sept. 8, 1953. Class 34.

Noblis Corperation: *See*—
Carson, Albert.

Noblis Mills: *See*—
Carson, Albert.

Nola, Frank M., doing business as Peter Nola & Son, San Jose, Calif. Fresh cherries. 584,622, Jan. 12; Serial No. 641,632, published Oct. 6, 1953. Class 46.

Nola, Peter, & Son: *See*—
Nola, Frank M.

No-Mortise Hinge Corp., Round Brook, N. J. Door hinges. 584,691, Jan. 12; Serial No. 646,006, published Oct. 20, 1953. Class 13.

Norgren, C. A., Co., Denver, Colo. Fluid regulating, relief, safety, check, control, and needle valves, and metallic hose fittings. 584,474, Jan. 12; Serial No. 596,235, published Oct. 20, 1953. Class 13.

Nuside, Inc., Warren, Ohio. Metal siding. 584,731, Jan. 12; Serial No. 627,958. Class 12.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Rubbing liniment and counterirritant. 350,961, Oct. 12, 1937. Republished Jan. 12. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Medicinal preparation. 364,430, Jan. 31, 1939. Republished Jan. 12. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Ointment. 369,805, Aug. 1, 1939. Republished Jan. 12. Class 18.

Nyal Company, Inc.: *See*—
Nyal Company.

Oberman Fabrics, Inc., New York, N. Y. Piece goods. 584,700, Jan. 12; Serial No. 647,518, published Oct. 13, 1953. Class 42.

Olga Coal Company: *See*—
Carter Coal Company.

Oshkosh B'Gosh, Inc., Oshkosh, Wis. Overalls. 584,466, Jan. 12; Serial No. 558,915, published Oct. 13, 1953. Class 39.

Pacific Plastics Company, Renton, Wash. Hard resinous plastic sheets. 584,496, Jan. 12; Serial No. 618,097, published Oct. 27, 1953. Class 12.

Parfait Promotional Packaging Company, New York, N. Y. Pre-tied ribbon bows. 584,729, Jan. 12; Serial No. 626,261. Class 40.

Patricia Petticoat Co., Inc., The, to Semon Wolf, New York, N. Y. Ladies' silk or rayon slips, nightgowns, pajamas, etc. 308,636, renewed Dec. 12, 1953. O. G. Jan. 12. Class 39.

Peal Mnufacturing Co., The, Cincinnati, Ohio. Kitchen utensils. 584,463, Jan. 12; Serial No. 543,736, published Dec. 11, 1951. Class 13.

Peerless Furnace and Foundry, Inc., Indianapolis, Ind. Hot air furnaces, and burners therefor. 584,641, Jan. 12; Serial No. 643,707, published Sept. 15, 1953. Class 34.

Penn Ventilator Company, Philadelphia, Pa. Powered roof ventilators. 584,538, Jan. 12; Serial No. 632,322, published Sept. 1, 1953. Class 34.

Pennant Corporation, Grand Rapids, Mich. Duct outlet fixtures. 584,614, Jan. 12; Serial No. 640,958, published Sept. 15, 1953. Class 34.

Perrish Steel Products, Inc., Los Angeles, Calif. Milling machines. 584,658, Jan. 12; Serial No. 644,449, published Sept. 8, 1953. Class 23.

Personal Pencil Company, The: *See*—
Rich, Irving D.

Pillsbury Flour Mills Company, by Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 256,758, May 21, 1929. Republished Jan. 12. Class 46.

Pillsbury Mills, Inc.: *See*—
Pillsbury Flour Mills Company.

Pinaud, Ed., Inc.: *See*—
Pinaud, Incorporated.

Pinaud, Incorporated, to Ed. Pinaud, Inc., New York, N. Y. Liquid for use on the hair. 311,519, renewed Mar. 27, 1954. O. G. Jan. 12. Class 51.

Pitney-Bowes, Inc.: *See*—
Mailometer Company.

Polacoat Incorporated, Cincinnati, Ohio. Rear view mirrors for vehicles. 584,478, Jan. 12; Serial No. 606,322, published Oct. 27, 1953. Class 19.

Radium Emanation Corporation, The, New York, N. Y. Radium. 242,506, May 29, 1928. Republished Jan. 12. Class 6.

Raylite Electric Corp., New York, N. Y. Decorative lighting outfits and electrically lighted Christmas decorative ornaments. 584,502, Jan. 12; Serial No. 620,273, published Apr. 21, 1953. Class 21.

Red Giant Oil Company, Council Bluffs, Iowa. Lubricating oils and greases. 584,561, Jan. 12; Serial No. 635,662, published Oct. 13, 1953. Class 15.

Reeve, V. J., & Son, Tracy, Calif. Automatic or continuous milking machines and parts thereof. 584,498, Jan. 12; Serial No. 618,940, published Sept. 8, 1953. Class 23.

Reich, Irving D., doing business as The Personal Pencil Company, New York, N. Y. Umbrellas. 584,574, Jan. 12; Serial No. 636,942, published Oct. 6, 1953. Class 41.

Richfield Oil Corporation, Los Angeles, Calif. Gasoline. 584,471, Jan. 12; Serial No. 581,900, published Oct. 13, 1953. Class 15.

Roberts Paint Corporation, New York, N. Y. Ready mixed paints and paint enamels. 584,728, Jan. 12; Serial No. 624,659. Class 16.

Robertson & Woodcock Limited London, England. Candy. 584,634, Jan. 12; Serial No. 643,116, published Oct. 27, 1953. Class 46.

Robinson, Frederick F., Danbury, Conn. Accounting and auditing services. 584,716, Jan. 12; Serial No. 636,034, published Oct. 6, 1953. Class 101.

Robinson, Leo C., Indianapolis, Ind. Venetian blind spray cleaning unit. 584,514, Jan. 12; Serial No. 625,369, published Sept. 15, 1953. Class 23.

Robray Mfg. Co., Chicago, Ill. Receptacles adapted to be attached beneath the dashboard of an automobile, etc. 584,525, Jan. 12; Serial No. 629,517, published Oct. 20, 1953. Class 19.

Rola Company Inc., The: *See*—
Rola Company, The.

Rola Company, The, by The Rola Company Inc., Cleveland, Ohio. Radio receiving sets and parts thereof, loud speaker diaphragms, transformers, etc. 303,953, June 13, 1933. Republished Jan. 12. Class 21.

Roly-Poly Corporation, Lima, Ohio. Services to persons establishing and maintaining frozen custard stores and stands. 584,720. Jan. 12; Serial No. 642,840, published Oct. 20, 1953. Class 100.

Rootie Kazootie, Inc., New York, N. Y. Children's dresses. 584,688, Jan. 12; Serial No. 645,834, published Oct. 13, 1953. Class 39.

Ro-Search, Inc., Waynesville, N. C. Shoes, slippers, sandals. 584,467, Jan. 12; Serial No. 564,697, published Oct. 20, 1953. Class 39.

Royalty Development Corp., Milwaukee, Wis. Mineral oil for medicinal use. 584,516, Jan. 12; Serial No. 627,149, published Sept. 29, 1953. Class 18.

Johnston, James C., Fort Lauderdale, Fla. Preformed sewer pipe joints. 584,499, Jan. 12; Serial No. 619,139, published Oct. 27, 1953. Class 12.

Kaiser, Henry J., Company, Oakland, Calif. Constructing and repairing of chemical processing plants, airfields, etc. 584,721, Jan. 12; Serial No. 648,025, published Oct. 20, 1953. Class 103.

Kansas Flour Mills Corporation, The, to Flour Mills of America, Inc., Kansas City, Mo. Wheat flour. 307,888, renewed Nov. 7, 1953. O. G. Jan. 12. Class 46.

Kardomah Limited: *See*—
Liverpool China & India Tea Company, Limited, The.

Kendall Company, The, Boston, Mass. Children's play nurse uniforms. 584,635, Jan. 12; Serial No. 643,165, published Oct. 13, 1953. Class 39.

King Paint Roller, Inc., Detroit, Mich. Device made of wire and cloth and intended to be hooked inside a can of paint and adapted to carry paint to be picked up by a paint applying roller. 584,727, Jan. 12; Serial No. 623,769. Class 29.

Kingsbury Breweries Company, Manitowoc, Wis. Beer. 308,986–7, renewed Dec. 26, 1953. O. G. Jan. 12. Class 48.

Kingsbury Breweries Company, Manitowoc, Wis. Beer. 309,367, renewed Jan. 9, 1954. O. G. Jan. 12. Class 48.

Klenzade Products, Incorporated, Beloit, Wis. Detergents. 584,512, Jan. 12; Serial No. 624,550, published Oct. 27, 1953. Class 52.

Kroger Co., The, Cincinnati, Ohio. Frozen fresh fish, frozen cooked fish. 584,664, Jan. 12; Serial No. 644,620, published Oct. 20, 1953. Class 46.

Kulwin, Seymour, doing business as Jeffrey-Allan Industries, Chicago, Ill. Dashboard trays, and decorative devices for motor vehicles. 584,508, Jan. 12; Serial No. 622,899, published Oct. 27, 1953. Class 19.

Lafayette Pharmacal Inc., Lafayette, Ind. Gall bladder stimulant. 584,495, Jan. 12; Serial No. 618,047, published Sept. 29, 1953. Class 18.

Lalla, John F., Company, Chicago, Ill. Macaroni, spaghetti, noodles, etc. 94,007, re-renewed Oct. 28, 1953. O. G. Jan. 12. Class 46.

Landenberger, J. W., & Co. Inc., assignor to Aberfoyle Manufacturing Company, Philadelphia, Pa. Hosiery. 584,592, Jan. 12; Serial No. 638,424, published Oct. 13, 1953. Class 39.

Laughlin, Alexander, Portland, Maine. Hair depilatory. 584,632, Jan. 12; Serial No. 642,823, published Oct. 27, 1953. Class 51.

Lebow Bros., Inc., Baltimore, Md. Men's suits and sports coats. 584,673, Jan. 12; Serial No. 644,850, published Sept. 22, 1953. Class 39.

Lee-Wald Garment Company, Kansas City, Mo. Boys' garments. 584,484, Jan. 12; Serial No. 609,730, published Oct. 20, 1953. Class 39.

Leeds Ltd. Coats, Inc., New York, N. Y. Piece goods. 584,746, Jan. 12; Serial No. 647,782. Class 42.

Leyse Aluminum Company, Kewaunee, Wis. Drip coffee makers. 584,562, Jan. 12; Serial No. 635,921, published Apr. 7, 1953. Class 13.

Librascope, Incorporated, Glendale, Calif. Boring machines. 584,648, Jan. 12; Serial No. 644,040, published Sept. 1, 1953. Class 23.

Life-Time Battery Corporation of America, New Braunfels, Tex. Storage battery. 584,500, Jan. 12; Serial No. 619,250, published July 22, 1952. Class 21.

Lilly, Eli, and Company, Indianapolis, Ind. Hypnotic medicinal tablets. 311,538, renewed Mar. 27, 1954. O. G. Jan. 12. Class 18.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 584,576, Jan. 12; Serial No. 637,060, published Oct. 20, 1953. Class 18.

Lincoln Engineering Company, St. Louis, Mo. Portable and stationary air-operated pumping apparatus. 584,461, Jan. 12; Serial No. 527,143, published Sept. 15, 1953. Class 23.

Lipton, Thomas J., Inc., Hoboken, N. J. Soup mixes. 584,696, Jan. 12; Serial No. 647,082, published Oct. 6, 1953. Class 46.

Liverpool China & India Tea Company, Limited, The, to Kardomah Limited, Liverpool, England. Tea. 41,974, re-renewed Feb. 2, 1954. O. G. Jan. 12. Class 46.

Locaters, Incorporated, The, Minneapolis, Minn. Broking of real estate and businesses. 584,718, Jan. 12; Serial No. 641,624, published Oct. 6, 1953. Class 102.

Long, W. E., Co., The, Chicago, Ill. Bread. 584,570–1, Jan. 12; Serial Nos. 634,148–9, published Oct. 6, 1953. Class 46.

Lord Jeff Knitting Company, Boston, Mass., to Lord Jeff Knitting Company, Incorporated, Brooklyn, N. Y. Men's, women's, and children's wearing apparel. 308,056, renewed Nov. 21, 1953. O. G. Jan. 12. Class 39.

Lord Jeff Knitting Company, Incorporated: *See*—
Lord Jeff Knitting Company.

Macklanburg-Duncan Company, Oklahoma City, Okla. Combination cleaning, polishing and coating wax. 584,725, Jan. 12; Serial No. 618,091. Class 4.

Maclean Company, The, Newark, N. J. Collar stays. 584,732, Jan. 12; Serial No. 628,158. Class 40.

Mailometer Company, Detroit, Mich., by Pitney-Bowes, Inc., Stamford, Conn. Combined sealing and stamping machines and sealing machines. 93,103, Aug. 19, 1913. Republished Jan. 12. Class 23.

Maison Duffée Inc., New York, N. Y. Shawls or stoles. 584,647, Jan. 12; Serial No. 643,968, published Sept. 22, 1953. Class 39.

Maison Jeurelle, Inc., Chicago, Ill., by Seventeen, Rye, N. Y. Pertume. 304,152, June 20, 1933. Republished Jan. 12. Class 51.

Majestic Rayon Corporation, New York, N. Y. Synthetic yarn. 584,698, Jan. 12; Serial No. 647,303, published Oct. 20, 1953. Class 43.

Makowsky, Jacques, Pomfret Center, Conn. Dressed poultry. 584,662, Jan. 12; Serial No. 644,507, published Oct. 6, 1953. Class 46.

Malcolm, Fred S., doing business under the name and style of Bryn Mawr Laboratories, Bryn Mawr, Pa. Medicinal preparations. 584,685, Jan. 12; Serial No. 645,720, published Oct. 20, 1953. Class 18.

Malcom Kenneth Co., Boston, Mass. Men's topcoats, overcoats, sport coats, etc. 584,687, Jan. 12; Serial No. 645,809, published Oct. 13, 1953. Class 39.

Manhattan Novelty Corporation, New York, N. Y. Wallets, billfolds, and traveling cases. 584,676, Jan. 12; Serial No. 645,047, published Oct. 13, 1953. Class 3.

Manufactures de Senones (Vosges) Société à Responsabilité Limitée, Paris, France. Textile fabrics. 584,585, Jan. 12; Serial No. 637,834, published Oct. 13, 1953. Class 42.

Marshall Field & Company, Chicago, Ill. Women's and children's dresses, suits, jackets, etc. 307,432, renewed Oct. 24, 1953. O. G. Jan. 12. Class 39.

Martin Equipment Corporation: *See*—
Martin, J. E., Equipment Corporation.

Martin, J. E., Equipment Corporation, Buffalo, N. Y., now by change of name, Martin Equipment Corporation, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Dry-cleaning machines. 584,494, Jan. 12; Serial No. 617,090, published Oct. 6, 1953. Class 24.

Massachusetts Heating Corporation, Cambridge, Mass. Oil, gas and coal burners, oil, gas and coal boiler-burner units, etc. 584,490, Jan. 12; Serial No. 612,211, published Sept. 1, 1953. Class 34.

Master Appliance Mfg. Co., Racine, Wis. Blower wheels for use in moving air in various appliances such as hair dryers. 584,618, Jan. 12; Serial No. 641,314, published Oct. 13, 1953. Class 34.

May Hosiery Mills, Nashville, Tenn. Men's, women's, and children's hosiery, knitted underwear, knitted T shirts, etc. 584,557, Jan. 12; Serial No. 635,092, published Oct. 20, 1953. Class 39.

McKinney, C. D., Georgetown, S. C. Laxative. 584,740, Jan. 12; Serial No. 635,486. Class 18.

Megs Macaroni Company, Harrisburg, Pa. Alimentary pastes. 584,726, Jan. 12; Serial No. 623,631. Class 46.

Merck & Co., Inc., Rahway, N. J. Antibiotics. 584,627, Jan. 12; Serial No. 642,235, published Oct. 6, 1953. Class 18.

Merck & Co., Inc., Rahway, N. J. Combinations of antibiotics and hormonal substances for medicinal use. 584,666–7, Jan. 12; Serial Nos. 644,680–1, published Oct. 6, 1953. Class 18.

Merck & Co., Inc., Rahway, N. J. Combinations of antibiotics and hormonal substances for medicinal use. 584,668, Jan. 12; Serial No. 644,683, published Oct. 6, 1953. Class 18.

Merit Clothing Company, Mayfield, Ky. Men's topcoats. 584,672, Jan. 12; Serial No. 644,770, published Sept. 22, 1953. Class 39.

Michaels, Stern & Company, Incorporated, Rochester, N. Y. Men's and boys' clothing. 584,631, Jan. 12; Serial No. 642,564, published Sept. 22, 1953. Class 39.

Midvale Chemical Company, Lodi, N. J. Chemical preparation for control of chronic respiratory disease in chickens. 584,654, Jan. 12; Serial No. 644,330, published Oct. 6, 1953. Class 18.

Miller, E. S., Laboratories, Inc., Los Angeles, Calif. Antipyretic and mild analgesic. 584,655, Jan. 12; Serial No. 644,332, published Sept. 29, 1953. Class 18.

Miller, E. S., Laboratories, Inc., Los Angeles, Calif. Analgesic anti-pyretic and antispasmodic preparation. 584,682, Jan. 12; Serial No. 645,582, published Oct. 20, 1953. Class 18.

Miller, James S., Trenton, N. J. Occlusal plane recorders. 584,662, Jan. 12; Serial No. 639,335, published Oct. 27, 1953. Class 44.

Mima Sewing Machine Mfg. Co., Ltd., Fukushima-Ku, Osaka, Japan. Sewing machines. 584,539, Jan. 12; Serial No. 632,644, published Sept. 15, 1953. Class 23.

Mima Sewing Machine Mfg. Co., Ltd., Fukushima-Ku, Osaka, Japan. Sewing machines. 584,586, Jan. 12; Serial No. 637,845, published Sept. 15, 1953. Class 23.

Moe Light, Inc., Fort Atkinson, Wis. Electric lighting fixtures and parts thereof. 584,605, Jan. 12; Serial No. 639,702, published Sept. 1, 1953. Class 21.

Moody Bible Institute of Chicago, The, Chicago, Ill. Providing religious educational services. 584,747, Jan. 12; Serial No. 641,198. Class 107.

Mooresville Mills, Inc., Mooresville, N. C. Piece goods. 584,649, Jan. 12; Serial No. 644,050, published Oct. 20, 1953. Class 42.

Moran Shoe Company: *See*—
Moran Shoe Company, Inc., The.

Moran Shoe Company, Inc., The, by Moran Shoe Company, Carlyle, Ill. Shoes. 303,794, June 6, 1933. Republished Jan. 12. Class 39.

Moran Shoe Company, Inc., The, by Moran Shoe Company, Carlyle, Ill. Shoes. 305,669, Aug. 22, 1933. Republished Jan. 12. Class 39.

Morton's, Washington, D. C. Hosiery. 584,595, Jan. 12; Serial No. 638,734, published Oct. 20, 1953. Class 39.

Moskowitz, Morris, Corp., New York, N. Y. Pocketbooks. 584,637, Jan. 12; Serial No. 643,498, published Oct. 20, 1953. Class 3.

Mother's Food Products, Inc., Newark, N. J. Sweet pickled pimentos. 584,558, Jan. 12; Serial No. 635,191, published Oct. 6, 1953. Class 46.

Motor Products Corporation, Detroit, Mich., and North Chicago, Ill. Glass bottle. 584,724, Jan. 12; Serial No. 613,341. Class 33.

Moxley, Wm. J., Inc., Chicago, Ill., by The Capital City Products Company, Columbus, Ohio. Butterin or margarin. 122,730, Sept. 10, 1918. Republished Jan. 12. Class 46.

Moyer, Walter W., Company, Ephrata, Pa. Underwear and sleeping garments. 584,492, Jan. 12; Serial No. 616,436, published Sept. 16, 1952. Class 39.

Mundet Cork Corporation, North Bergen, N. J. Articles made of natural cork, of cork particles, etc., namely cork insulation, etc. 584,552, Jan. 12; Serial No. 634,210, published Oct. 27, 1953. Class 12.

Myers, Guy C., doing business as Cranguyma Farms Products, Long Beach, Wash. Cranberry jam and jelly and cranberry syrup. 584,580, Jan. 12; Serial No. 637,603, published Oct. 6, 1953. Class 46.

Nancy Ann Storybook Dolls, Inc., San Francisco, Calif. Dolls. 584,534, Jan. 12; Serial No. 631,940, published Oct. 20, 1953. Class 22.

Narby, J., Brooklyn, N. Y. Dog collars, leads and harnesses; key cases and key holders. 584,643, Jan. 12; Serial No. 643,781, published Oct. 20, 1953. Class 3.

Narrow Fabric Co., The, Wyomissing, to The Narrow Fabric Company, West Reading, Pa. Garment-lacers and shoe-lacers. 94,301, re-renewed Nov. 25, 1953. O. G. Jan. 12. Class 40.

Narrow Fabric Company, The: *See*—
Narrow Fabric Co., The.

Natn Products Company: *See*—
Crown Zellerbach Corporation.

National Distillers Products Corporation: *See*—
American Medicinal Spirits Company, The.

National Milling and Chemical Company, Philadelphia, Pa. Soap compound, soap for laundry use, soap for textile trade, etc. 302,130, Mar. 28, 1933. Republished Jan. 12. Classes 4 and 52.

National Paper Products Co., The: *See*—
Crown Zellerbach Corporation.

National Supply Company, The, Pittsburgh, Pa. Ferrous metal, oil well casing and oil well tubing. 584,636, Jan. 12; Serial No. 643,432, published Oct. 20, 1953. Class 13.

New York & New Jersey Lubricant Company, New York, N. Y. Lubricating oils, lubricating oil compositions, etc. 310,104, renewed Feb. 13, 1954. O. G. Jan. 12. Class 15.

Niagara Blower Company, Buffalo, N. Y. Inter and after coolers for air or gas compressors, engine jacket water coolers, dehumidifiers, etc. 584,464, Jan. 12; Serial No. 545,518, published Sept. 8, 1953. Class 34.

Noblis Corperation: *See*—
Carson, Albert.

Noblis Mills: *See*—
Carson, Albert.

Nola, Frank M., doing business as Peter Nola & Son, San Jose, Calif. Fresh cherries. 584,622, Jan. 12; Serial No. 641,632, published Oct. 6, 1953. Class 46.

Nola, Peter, & Son: *See*—
Nola, Frank M.

No-Mortise Hinge Corp., Bound Brook, N. J. Door hinges. 584,691, Jan. 12; Serial No. 646,006, published Oct. 20, 1953. Class 13.

Norgren, C. A., Co., Denver, Colo. Fluid regulating, relief, safety, check, control, and needle valves, and metallic hose fittings. 584,474, Jan. 12; Serial No. 596,235, published Oct. 20, 1953. Class 13.

Nuside, Inc., Warren, Ohio. Metal siding. 584,731, Jan. 12; Serial No. 627,958. Class 12.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Rubbing liniment and counterirritant. 350,961, Oct. 12, 1937. Republished Jan. 12. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Medicinal preparation. 364,430, Jan. 31, 1939. Republished Jan. 12. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Ointment. 369,805, Aug. 1, 1939. Republished Jan. 12. Class 18.

Nyal Company, Inc.: *See*—
Nyal Company.

Oberman Fabrics, Inc., New York, N. Y. Piece goods. 584,700, Jan. 12; Serial No. 647,518, published Oct. 13, 1953. Class 42.

Olga Coal Company: *See*—
Carter Coal Company.

Oshkosh B'Gosh, Inc., Oshkosh, Wis. Overalls. 584,466, Jan. 12; Serial No. 558,915, published Oct. 13, 1953. Class 39.

Pacific Plastics Company, Renton, Wash. Hard resinous plastic sheets. 584,496, Jan. 12; Serial No. 618,097, published Oct. 27, 1953. Class 12.

Parfait Promotional Packaging Company, New York, N. Y. Pre-tied ribbon bows. 584,729, Jan. 12; Serial No. 626,261. Class 40.

Patricia Petticoat Co., Inc., The, to Semon Wolf, New York, N. Y. Ladies' silk or rayon slips, nightgowns, pajamas, etc. 308,636, renewed Dec. 12, 1953. O. G. Jan. 12. Class 39.

Peal Manufacturing Co., The, Cincinnati, Ohio. Kitchen utensils. 584,463, Jan. 12; Serial No. 543,736, published Dec. 11, 1951. Class 13.

Peerless Furnace and Foundry, Inc., Indianapolis, Ind. Hot air furnaces, and burners therefor. 584,641, Jan. 12; Serial No. 643,707, published Sept. 15, 1953. Class 34.

Penn Ventilator Company, Philadelphia, Pa. Powered roof ventilators. 584,538, Jan. 12; Serial No. 632,322, published Sept. 1, 1953. Class 34.

Pennant Corporation, Grand Rapids, Mich. Duct outlet fixtures. 584,614, Jan. 12; Serial No. 640,958, published Sept. 15, 1953. Class 34.

Perrish Steel Products, Inc., Los Angeles, Calif. Milling machines. 584,658, Jan. 12; Serial No. 644,449, published Sept. 8, 1953. Class 23.

Personal Pencil Company, The: *See*—
Rich, Irving D.

Pillsbury Flour Mills Company, by Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 256,758, May 21, 1929. Republished Jan. 12. Class 46.

Pillsbury Mills, Inc.: *See*—
Pillsbury Flour Mills Company.

Pinaud, Ed., Inc.: *See*—
Pinaud, Incorporated.

Pinaud, Incorporated, to Ed. Pinaud, Inc., New York, N. Y. Liquid for use on the hair. 311,519, renewed Mar. 27, 1954. O. G. Jan. 12. Class 51.

Pitney-Bowes, Inc.: *See*—
Mailometer Company.

Polacoat Incorporated, Cincinnati, Ohio. Rear view mirrors for vehicles. 584,478, Jan. 12; Serial No. 606,322, published Oct. 27, 1953. Class 19.

Radium Emanation Corporation, The, New York, N. Y. Radium. 242,506, May 29, 1928. Republished Jan. 12. Class 6.

Raylite Electric Corp., New York, N. Y. Decorative lighting outfits and electrically lighted Christmas decorative ornaments. 584,502, Jan. 12; Serial No. 620,273, published Apr. 21, 1953. Class 21.

Red Giant Oil Company, Council Bluffs, Iowa. Lubricating oils and greases. 584,561, Jan. 12; Serial No. 635,662, published Oct. 13, 1953. Class 15.

Reeve, V. J., & Son, Tracy, Calif. Automatic or continuous milking machines and parts thereof. 584,498, Jan. 12; Serial No. 618,940, published Sept. 8, 1953. Class 23.

Reish Products, Inc., South Bend, Ind. Metal combination storing, freezing, and cooking containers. 584,659, Jan. 12; Serial No. 644,453, published Oct. 27, 1953. Class 13.

Rice Growers Association of California, Sacramento, Calif. Packaged rice and rice bran oil meal. 584,541, Jan. 12; Serial No. 633,169, published Oct. 6, 1953. Class 46.

Rich, Irving D., doing business as The Personal Pencil Company, New York, N. Y. Umbrellas. 584,574, Jan. 12; Serial No. 636,942, published Oct. 6, 1953. Class 41.

Richfield Oil Corporation, Los Angeles, Calif. Gasoline. 584,471, Jan. 12; Serial No. 581,900, published Oct. 13, 1953. Class 15.

Roberts Paint Corporation, New York, N. Y. Ready mixed paints and paint enamels. 584,728, Jan. 12; Serial No. 624,659. Class 16.

Robertson & Woodcock Limited London, England. Candy. 584,634, Jan. 12; Serial No. 643,116, published Oct. 27, 1953. Class 46.

Robinson, Frederick F., Danbury, Conn. Accounting and auditing services. 584,716, Jan. 12; Serial No. 636,034, published Oct. 6, 1953. Class 101.

Robinson, Leo C., Indianapolis, Ind. Venetian blind spray cleaning unit. 584,514, Jan. 12; Serial No. 625,369, published Sept. 15, 1953. Class 23.

Robray Mfg. Co., Chicago, Ill. Receptacles adapted to be attached beneath the dashboard of an automobile, etc. 584,525, Jan. 12; Serial No. 629,517, published Oct. 20, 1953. Class 19.

Rola Company Inc., The: *See*—
Rola Company, The.

Rola Company, The, by The Rola Company Inc., Cleveland, Ohio. Radio receiving sets and parts thereof, loud speaker diaphragms, transformers, etc. 303,953, June 13, 1933. Republished Jan. 12. Class 21.

Roly-Poly Corporation, Lima, Ohio. Services to persons establishing and maintaining frozen custard stores and stands. 584,720. Jan. 12; Serial No. 642,840, published Oct. 20, 1953. Class 100.

Rootie Kazootie, Inc., New York, N. Y. Children's dresses. 584,688, Jan. 12; Serial No. 645,834, published Oct. 13, 1953. Class 39.

Ro-Search, Inc., Waynesville, N. C. Shoes, slippers, sandals. 584,467, Jan. 12; Serial No. 564,697, published Oct. 20, 1953. Class 39.

Royalty Development Corp., Milwaukee, Wis. Mineral oil for medicinal use. 584,516, Jan. 12; Serial No. 627,149, published Sept. 29, 1953. Class 18.

Rutgers Coat Co., Inc., New Brunswick, N. J. Boys' coats. 584,473, Jan. 12; Serial No. 594,066, published Oct. 13, 1953. Class 39.

Sand Knitting Mills Co., Chicago, Ill., assignor to Sand Knitting Mills Corporation, Berlin, Wis. Football, wrestling, and basket ball pants, and wrestling and skating tights. 584,629, Jan. 12; Serial No. 642,308, published Oct. 13, 1953. Class 39.

Sand Knitting Mills Corporation, assignee: *See*— Sand Knitting Mills Co.

Schenley Laboratories, Inc., New York, N. Y. Somnifacient product. 584,660, Jan. 12; Serial No. 644,459, published Oct. 6, 1953. Class 18.

Schlage Lock Company, San Francisco, Calif. Door knobs, door knob dummy trim, door knob working trim, etc. 584,610, Jan. 12; Serial No. 640,412, published Oct. 20, 1953. Class 13.

Schoenburg, Paul P., Los Angeles, to P. P. Schoenburg, Salinas, Calif. Fresh vegetables. 308,603, renewed Dec. 12, 1953. O. G. Jan. 12. Class 46.

Scientific Electric: *See*— Sedlacsik, John J.

Sears, Roebuck and Co., Chicago, Ill. Bicycle locks. 584,465, Jan. 12; Serial No. 550,094, published Dec. 20, 1949. Class 25.

Sears, Roebuck and Co., Chicago, Ill. Air conditioners. 584,540, Jan. 12; Serial No. 632,750, published Sept. 15, 1953. Class 34.

Sedlacsik, John J., trading as Scientific Electric, Garfield, N. J. Pneumatic sprayers. 584,600, Jan. 12; Serial No. 639,145, published Sept. 8, 1953. Class 23.

Selberling Rubber Company, Barerton, Ohio. Pneumatic rubber tires. 584,707, Jan. 12; Serial No. 649,392, published Oct. 27, 1953. Class 35.

Service Products, Incorporated, Greenville, Pa. Chemical preparation for use in cleaning coffee urns. 584,678, Jan. 12; Serial No. 645,217, published Oct. 27, 1953. Class 52.

Seventeen; *See*— Maison Jeurelle, Inc.

Shinn, Ivy L., doing business under the name of Jimmy Weldon Enterprises Chickasha, Okla. Doll. 584,735, Jan. 12; Serial No. 630,685. Class 22.

Sicks' Seattle Brewing & Malting Co.: *See*— Tacoma Brewing Co.

Silex Company, The, Hartford, Conn. Electric coffee makers. 307,541, renewed Oct. 31, 1953. O. G. Jan. 12. Class 21.

Simpson, Wm., Sons & Co., Inc., Philadelphia, Pa. Print cloth. 584,577, Jan. 12; Serial No. 637,336, published Oct. 13, 1953. Class 42.

Sleep-Eze Co. Inc., Long Beach, Calif. Medicinal preparation. 584,681, Jan. 12; Serial No. 645,439, published Oct. 20, 1953. Class 18.

Smallman, I., & Sons, Paterson, N. J., and New York, N. Y. Billfolds, wallets. 584,481, Jan. 12; Serial No. 608,022, published Nov. 6, 1951. Class 3.

Smith, J. Fish: *See*— Cool Maid Candy Company.

Smith, Kline & French Laboratories, Philadelphia, Pa. Sedative preparation. 584,652, Jan. 12; Serial No. 644,197, published Sept. 29, 1953. Class 18.

Smith & Wesson, to Smith and Wesson, Inc., Springfield, Mass. Revolvers. 95,164, re-renewed Feb. 3, 1954. O. G. Jan. 12. Class 9.

Smith and Wesson, Inc.: *See*— Smith & Wesson.

Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa, Societa per Azioni, Milan, Italy. Artificial textile fibres. 584,624, Jan. 12; Serial No. 641,747, published Oct. 13, 1953. Class 1.

Societe des Usines Chimiques Rhone-Poulenc also doing business as Societe Parisienne d'Expansion Chimique S. A., Paris, France. Derivative of phenothiazine. 584,613, Jan. 12; Serial No. 640,651, published Oct. 20, 1953. Class 18.

Societe Parisienne d'Expansion Chimique S. A.: *See*— Societe des Usines Chimiques Rhone-Poulenc.

Societe pour le Traitement et l'Amelioration des Tissus, Paris, France. Chemical preparations. 584,597, Jan. 12; Serial No. 658,980, published Oct. 27, 1953. Class 6.

Sorg Paper Co., The, Middletown, Ohio. Toilet tissue, wrapping paper, printing paper, etc. 389,246, July 29, 1941. Republished Jan. 12. Class 37.

Sorg Paper Company, The, Middletown, Ohio. Printing paper and writing paper. 363,142, Dec. 13, 1938. Republished Jan. 12. Class 37.

Sorg Paper Company, The, Middletown, Ohio. Writing paper, printing paper offset paper, etc. 442,694, May 10, 1949. Republished Jan. 12. Class 37.

Sorg Paper Company, The, Middletown, Ohio. Printing paper, writing paper, tag paper, etc. 442,715, May 17, 1949. Republished Jan. 12. Class 37.

Sorg Paper Company, The, Middletown, Ohio. Writing paper, bond paper and ledger paper. 444,157, Aug. 15, 1950. Republished Jan. 12. Class 37.

Spiegel, Inc., Chicago, Ill. Oil heaters. 584,638, Jan. 12; Serial No. 643,562, published Sept. 15, 1953. Class 34.

Spraying Systems Co., Bellwood, Ill. Nozzles for spraying liquids. 584,524, Jan. 12; Serial No. 629,397, published Oct. 27, 1953. Class 13.

Standard Oil Company, Richmond, to Standard Oil Company of California, San Francisco, Calif. Petroleum asphalt. 93,771, re-renewed Oct. 14, 1953. O. G. Jan. 12. Class 12.

Standard Oil Company of California: *See*— Standard Oil Company.

Starline Inc., Harvard, Ill. Farm barn hardware. 584,589, Jan. 12; Serial No. 638,033, published Oct. 13, 1953. Class 13.

Sterling Drug Inc., New York, N. Y. Antiseptic agent for use in detergent preparations. 584,679, Jan. 12; Serial No. 645,269, published Oct. 27, 1953. Class 52.

Stern Brothers, New York, N. Y. Sanitary goods. 584,604, Jan. 12; Serial No. 639,524, published Oct. 27, 1953. Class 44.

Stetson, John B., Company, Philadelphia, Pa. Hats, caps and gloves. 584,621, Jan. 12; Serial No. 641,476, published Sept. 1, 1953. Class 39.

Stetson, John B., Company, Philadelphia, Pa. Hats and caps. 584,677, Jan. 12; Serial No. 645,198, published Sept. 22, 1953. Class 39.

Straub, W. F., & Company, by Clark-Millner Sales Company, Chicago, Ill. Toilet preparation. 346,598, June 1, 1937. Republished Jan. 12. Class 51.

Style Art Clothes, Inc., New York, N. Y. Men's suits, sport coats, overcoats, topcoats, etc. 584,606, Jan. 12; Serial No. 639,853, published Sept. 1, 1953. Class 39.

Summit Sportwear Co., Boston, Mass. Ladies' and misses' skirts. 584,697, Jan. 12; Serial No. 647,111, published Oct. 20, 1953. Class 39.

Sunkist Growers, Inc., Los Angeles, Calif. Fresh citrus fruits. 584,515, Jan. 12; Serial No. 626,008, published Sept. 2, 1952. Class 46.

Sykes Chemical Co.: *See*— Sykes, Ralph J.

Sykes, Ralph J., doing business as Sykes Chemical Co., Greensboro, N. C. Preparation for treatment of head colds, chest colds, etc. 584,510, Jan. 12; Serial No. 624,247, published Sept. 29, 1953. Class 18.

Tacoma Brewing Co., San Francisco, Calif., to Sicks' Seattle Brewing & Malting Co., Seattle, Wash. Malt beverages. 305,764, renewed Aug. 22, 1953. O. G. Jan. 12. Class 48.

Tailby-Nason Company, South Berwick, Maine, and Boston, Mass., to Tailby-Nason Company, Cambridge, Mass. Digestive tablets. 93,046, re-renewed Aug. 12, 1953. O. G. Jan. 12. Class 18.

Tennant & Hoyt Company, Lake City, Minn. Wheat flour. 340,519, Nov. 10, 1936. Republished Jan. 12. Class 46.

Texas Harvest Hat Company, Laredo, Tex. Men's, ladies' and children's hats. 584,531–2, Jan. 12; Serial Nos. 631,447–8, published Sept. 8, 1953. Class 39.

Texas Harvest Hat Company, Laredo, Tex. Men's, ladies', and children's hats. 584,591, Jan. 12; Serial No. 638,329, published Sept. 8, 1953. Class 39.

Thayer, Inc., Gardner, Mass. Infants' carriages, strollers, and coaches. 584,730, Jan. 12; Serial No. 626,965. Class 19.

Thompson, Henry G., & Son Company, The, New Haven, Conn. Hack saw blades and band saw blades. 308,010, renewed Nov. 14, 1953. O. G. Jan. 12. Class 23.

Totem Farms, Edmonds, Wash. Equipment for raising animals, excluding fowl– namely, feeder boxes, etc. 584,587, Jan. 12; Serial No. 657,893, published Oct. 13, 1953. Class 3.

Triumph Hosiery Mills, Inc., New York, N. Y. Women's hosiery and stockings, opera hose, etc. 584,683, Jan. 12; Serial No. 645,607, published Oct. 13, 1953. Class 39.

Union Carbide and Carbon Corporation, New York, N. Y. Metal alloy tubes and metal alloy pipes. 584,639, Jan. 12; Serial No. 643,621, published Oct. 20, 1953. Class 13.

Union Hardware Company: *See*— Horton Manufacturing Company, The.

United Elastic Corporation, Easthrampton, Mass. Narrow elastic webbing. 584,543, Jan. 12; Serial No. 633,396, published Oct. 20, 1953. Class 42.

United Manufacturing and Service Co., Milwaukee, Wis. Prefabricated electric wiring systems. 584,711, Jan. 12; Serial No. 619,319, published June 3, 1952. Class 21.

United States Rubber Company, New York, N. Y. Textile fabrics. 584,596, Jan. 12; Serial No. 638,884, published Oct. 13, 1953. Class 42.

Universal Cast Iron Mfg. Co., South Gate, Calif. Cast iron soil and drainage pipe fittings. 584,689, Jan. 12; Serial No. 645,849, published Oct. 20, 1953. Class 13.

Vacuum Metals Corporation, Cambridge, Mass. Metal alloys. 584,650, Jan. 12; Serial No. 644,146, published Oct. 20, 1953. Class 14.

Valente, Costa & Companhia, Limitada, Villa Nova de Gaya, Portugal. Port wine. 309,509, renewed Jan. 16, 1954. O. G. Jan. 12. Class 47.

Valier & Spies Milling Co., St. Louis, to Flour Mills of America, Inc., Kansas City, Mo. Wheat-flour. 93,940, re-renewed Oct. 21, 1953. O. G. Jan. 12. Class 46.

Van Slyke & Company, Inc., San Francisco, Calif. Pharmaceutical preparation. 584,521, Jan. 12; Serial No. 628,971, published Sept. 29, 1953. Class 18.

Vulcan Corporation, Portsmouth Ohio. Bowling pins. 584,702, Jan. 12; Serial No. 647,670, published Oct. 27, 1953. Class 22.

Wales Game Systems, Inc., Buffalo, N. Y. Board games. 584,564, Jan. 12; Serial No. 635,983, published Oct. 27, 1953. Class 22.

Wales Game Systems, Inc., Buffalo, N. Y. Board games. 584,565, Jan. 12; Serial No. 635,985, published Oct. 27, 1953. Class 22.

Wales Game Systems, Inc., Buffalo, N. Y. Board games. 584,566, Jan. 12; Serial No. 635,987, published Oct. 27, 1953. Class 22.

Watkins, J. R., Company, The, Winona, Mian. Deodorant powder, dusting powder, face powder, etc. 423,233, Aug. 27, 1946. Republished Jan. 12. Classes 51–52.

Wee-Sox Hosiery Mills Incorporated, Randleman, N. C. Children's hosiery. 584,582, Jan. 12; Serial No. 637,806, published Oct. 27, 1953. Class 39.

Weldon, Jimmy, Enterprises: *See*— Shinn, Ivy L.

West Coast Chemicals and Solvents Corporation, also doing business as Western Feed Supplement Co., Culver City, Calif. Liquid poultry feed fortifier and conditioner containing vitamins and minerals. 584,628, Jan. 12; Serial No. 642,247, published Oct. 20, 1953. Class 18.

Western Auto Supply Company, Kansas City, Mo. Automobile seat covers, automobile arm rest covers, etc. 584,692, Jan. 12; Serial No. 646,030, published Oct. 20, 1953. Class 19.

Western Feed Supplement Co.: *See*— West Coast Chemicals and Solvents Corporation.

White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Impression compound. 584,504, Jan. 12; Serial No. 620,635, published Oct. 27, 1953. Class 44.

Widmer's Wine Cellars, to Widmer's Wine Cellars, Inc., Naples, N. Y. Wine. 309,527, renewed Jan. 16, 1954. O. G. Jan. 12. Class 47.

Widmer's Wine Cellars, Inc.: *See*— Widmer's Wine Cellars.

Williams, Dwight S., Company, Inc., New York, N. Y. Socks. 584,507, Jan. 12; Serial No. 621,434, published June 17, 1952. Class 39.

Wilson, James F., doing business as Wilson Manufacturing Co., Grand Prairie, Tex. Children's clothing. 584,511, Jan. 12; Serial No. 624,514, published Dec. 23, 1952. Class 39.

Wilson Manufacturing Co.: *See*— Wilson, James F.

Windsor-Lloyd Products, Inc., Wilmington, Del., to Windsor-Lloyd Products, Inc., Philadelphia, Pa. Tire chains. 309,518, renewed Jan. 16, 1954. O. G. Jan. 12. Class 13.

Windsor-Lloyd Products, Inc., doing business as Booster Chemical Engineering Co., Wilmington, Del., to Windsor-Lloyd Products, Inc., Philadelphia, Pa. Polishing wax. 310,769, renewed Mar. 6, 1954. O. G. Jan. 12. Class 4.

Winn & Lovett Grocery Company, Jacksonville, Fla. Canned fruits and canned vegetables. 584,598, Jan. 12; Serial No. 639,093, published Oct. 6, 1953. Class 46.

Winthrop-Stearns Inc., New York, N. Y. Local and regional anesthetic. 584,570, Jan. 12; Serial No. 636,321, published Sept. 29, 1953. Class 18.

Winthrop-Stearns Inc., New York, N. Y. Decongestant, antihistaminic and antiseptic preparation. 584,623, Jan. 12; Serial No. 641,653, published Oct. 6, 1953. Class 18.

Winthrop-Stearns Inc., New York, N. Y. Chemotherapeutic preparation. 584,669, Jan. 12; Serial No. 644,703, published Oct. 13, 1953. Class 18.

Wolf, Semon: *See*— Patricia Petticoat Co., Inc., The.

Wrought Iron Range Company, St. Louis, Mo. Coal, wood, gas and oil cooking ranges, space heaters, floor furnaces, etc. 584,505, Jan. 12; Serial No. 620,646, published Sept. 1, 1953. Class 34.

Wrought Iron Range Company, St. Louis, Mo. Coal, wood, gas and oil cooking ranges, space heaters, floor furnaces, etc. 584,506, Jan. 12; Serial No. 620,651, published Sept. 1, 1953. Class 34.

Wyeth Laboratories, Division of American Home Products Corporation: *See*— American Home Products Corporation.

Y-Z Laboratories, Wilmington, N. C. Medicinal preparation. 584,661, Jan. 12; Serial No. 644,481, published Sept. 29, 1953. Class 18.

York-Shipley, Inc., York, Pa. Oil or gas burning air conditioning systems, and parts thereof. 584,553, Jan. 12; Serial No. 634,505, published Sept. 15, 1953. Class 34.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Artificial textile fibres. Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa. 584,624, Jan. 12; Serial N. 641,747, published Oct. 13, 1953.

Coal. Carter Coal Company. 309,148, Jan. 2, 1934. Republished Jan. 12.

Natural or synthetic latex compound. General Latex and Chemical Corporation. 584,663, Jan. 12; Serial No. 644,550, published Oct. 13, 1953.

CLASS 2

Cans, Friction-top, coffee-cans, spice-cans, etc. American Can Company. 92,935, Aug. 12, 1913. Republished Jan. 12.

CLASS 3

Animal equipment—namely, cages, etc. Hiawatha Equipment Company. 584,567, Jan. 12; Serial No. 636,129, published Oct. 13, 1953.

Billfolds, wallets. I. Smallman & Sons. 584,481, Jan. 12; Serial No. 608,022, published Nov. 6, 1951.

Cages, Wire chinchilla. Jess & C. A. Cutler, Inc. 584,694, Jan. 12; Serial No. 646,536, published Oct. 27, 1953.

Dog collars, leads and harnesses; key cases and key holders. J. Narby. 584,643, Jan. 12; Serial No. 643,781, published Oct. 20, 1953.

Equipment for raising animals, excluding fowl—namely, feeder boxes, etc. Totem Farms. 584,587, Jan. 12; Serial No. 637,893, published Oct. 13, 1953.

Key cases, Leather, coin purses, card cases, etc. Advertising Promotion Products. 584,616, Jan. 12; Serial No. 641,115, published Oct. 13, 1953.

Pocketbooks. Morris Moskowitz Corp. 584,637, Jan. 12; Serial No. 643,498, published Oct. 20, 1953.

Supplies for pets—namely, bird cages, etc. Bernard Edward Company. 584,537, Jan. 12; Serial No. 631,982, published Oct. 13, 1953.

Wallets, billfolds, and traveling cases. Manhattan Novelty Corporation. 584,676, Jan. 12; Serial No. 645,047, published Oct. 13, 1953.

CLASS 4

Scouring pads. Bolta-Saran, Inc. 584,528, Jan. 12; Serial No. 630,661, published Oct. 27, 1953.

Soap compound, soap for laundry use, soap for textile trade, etc. National Milling and Chemical Company. 302,130, Mar. 28, 1933. Republished Jan. 12.

Wax, Combination cleaning, polishing, and coating. Macklanburg-Duncan Company. 584,725, Jan. 12; Serial No. 618,091.

Wax, Polishing. Windsor-Lloyd Products, Inc. 310,769, renewed Mar. 6, 1954. O. G. Jan. 12.

Wax soap, Floor, and scouring cleansers. Industrial Soap Company. 584,560, Jan. 12; Serial No. 635,416, published Oct. 27, 1953.

CLASS 5

Glue. Glu-Pen Corporation. 584,579, Jan. 12; Serial No. 637,371, published Oct. 27, 1953.

CLASS 6

Chemical preparations. Societe pour le Traitement et l'Amelioration des Tissus. 584,597, Jan. 12; Serial No. 638,980, published Oct. 27, 1953.

Disinfectant, General horticultural. Bayer Semesan Company, Inc. 305,724, Aug. 22, 1933. Republished Jan. 12.

Fungicides. California Spray-Chemical Corporation. 306,966, renewed Oct. 10, 1953. O. G. Jan. 12.

Insecticidal, germicidal, and fungicidal sprays. California Spray-Chemical Corporation. 306,967, renewed Oct. 10, 1953. O. G. Jan. 12.

Liquid light refractory frost coating. Claremont Pigment Dispersion Corporation. 584,472, Jan. 12; Serial No. 593,650, published Oct. 27, 1953.

Radium. The Radium Emanation Corporation. 242,506, May 29, 1928. Republished Jan. 12.

Silica gel adsorpent material, employed particularly as a desiccant, Packaged. The Davison Chemical Corporation. 584,733, Jan. 12; Serial No. 629,360.

Tanning materials and chemical products. Geigy Company, Inc. 309,202, renewed Jan. 9, 1954. O. G. Jan. 12.

Water-repellent impregnating agent. Farbenfabriken Bayer. 584,584, Jan. 12; Serial No. 637,819, published Oct. 27, 1953.

CLASS 7

Ribbon for tying packages and other uses. Freydberg Brothers, Incorporated. 309,770, renewed Jan. 30, 1954. O. G. Jan. 12.

CLASS 9

Revolvers. Smith & Wesson. 95,164, re-renewed Feb. 3, 1954. O. G. Jan. 12.

CLASS 12

Articles made of natural cork, of cork particles, etc., namely, cork insulation, etc. Mundet Cork Corporation. 584,552, Jan. 12; Serial No. 634,210, published Oct. 27, 1953.

Asbestos-cement pipe couplings. Johns-Manville Corporation. 584,468, Jan. 12; Serial No. 574,036, published Oct. 27, 1953.

Doors. Atlas Overhead Door Company. 444,782, July 14, 1953. Republished Jan. 12.

Metal siding. Nuside, Inc. 584,731, Jan. 12; Serial No. 627,958.

Petroleum asphalt. Standard Oil Company. 93,771, re-renewed Oct. 14, 1953. O. G. Jan. 12.

Plastic sheets, Hard resinous. Pacific Plastics Company. 584,496, Jan. 12; Serial 618,097, published Oct. 27, 1953.
Sewer pipe joints, Preformed. J. C. Johnston. 584,499, Jan. 12; Serial No. 619,139, published Oct. 27, 1953.

CLASS 13

Coffee makers. Hartford Products Corporation. 307,082, renewed Oct. 17, 1953. O. G. Jan. 12.
Coffee makers, Drip. Leyse Aluminum Company. 584,562, Jan. 12; Serial No. 635,921, published Apr. 7, 1953.
Door hinges. No-Mortise Hinge Corp. 584,691, Jan. 12; Serial No. 646,006, published Oct. 20, 1953.
Door knobs, door knob dummy trim, door knob working trim, etc. Schlage Lock Company. 584,610, Jan. 12; Serial No. 640,412, published Oct. 20, 1953.
Ferrous metal, oil well casing and oil well tubing. The National Supply Company. 584,636, Jan. 12; Serial No. 643,432, published Oct. 20, 1953.
Hardware, Farm barn. Starline Inc. 584,589, Jan. 12; Serial No. 638,033, published Oct. 13, 1953.
Hose nozzles, Fire, and hose line couplings. Akron Brass Mfg. Company, Inc. 584,563, Jan. 12; Serial No. 635,945, published Oct. 20, 1953.
Hydrants, Fire. Darling Valve & Manufacturing Company. 584,644, Jan. 12; Serial No. 643,820, published Oct. 27, 1953.
Kitchen utensils. The Peal Manufacturing Co. 584,463, Jan. 12; Serial No. 643,736, published Dec. 11, 1951.
Metal alloy tubes and metal alloy pipes. Union Carbide and Carbon Corporation. 584,639, Jan. 12; Serial No. 643,621, published Oct. 20, 1953.
Nozzles for spraying liquids. Spraying Systems Co. 584,524, Jan. 12; Serial No. 629,397, published Oct. 27, 1953.
Pipe fittings, Cast iron soil and drainage. Universal Cast Iron Mfg. Co. 584,689, Jan. 12; Serial No. 645,849, published Oct. 20, 1953.
Staples. Acme Staple Company. 584,572, Jan. 12; Serial No. 636,451, published Oct. 27, 1953.
Staples. Acme Staple Company. 584,573, Jan. 12; Serial No. 636,453, published Oct. 27, 1953.
Storing, freezing, and cooking containers, Metal combination. Reish Products, Inc. 584,659, Jan. 12; Serial No. 644,453, published Oct. 27, 1953.
Strainers, Sink. All-Power Manufacturing Co. 584,535, Jan. 12; Serial No. 631,967, published Oct. 27, 1953.
Tire chains. Windsor-Lloyd Products, Inc. 309,518, renewed Jan. 16, 1954. O. G. Jan. 12.
Valves, Fluid regulating, relief, safety, check, control, and needle, and metallic hose fittings. C. A. Norgren Co. 584,474, Jan. 12; Serial No. 596,235, published Oct. 20, 1953.

CLASS 14

Aluminum alloys. Fromson Orban Company, Inc. 584,690, Jan. 12; Serial No. 645,975, published Oct. 20, 1953.
Aluminum, antimony, arsenic, etc. Belmont Smelting & Refining Works, Inc. 584,482, Jan. 12; Serial No. 608,297, published Oct. 27, 1953.
Metal alloys. Vacuum Metals Corporation. 584,650, Jan. 12; Serial No. 644,146, published Oct. 20, 1953.
Metal, Expanded. Athos Steel Service. 584,546, Jan. 12; Serial No. 633,904, published Oct. 20, 1953.
Metallic welding electrodes. Eutectic Welding Alloys Corporation. 584,619, Jan. 12; Serial No. 641,375, published Oct. 20, 1953.
Mischmetal alloy in ingot, pellet, and rod form. Cerium Metals Corporation. 584,542, Jan. 12; Serial No. 633,299, published Oct. 20, 1953.
Steels, Tool. The Carpenter Steel Company. 244,863, July 31, 1928. Republished Jan. 12.
Unmachined rough malleable castings. Albion Malleable Iron Company. 584,493, Jan. 12; Serial No. 616,804, published Oct. 27, 1953.
Welding rods, Bare and coated. American Brake Shoe Company. 584,536, Jan. 12; Serial No. 631,971, published Oct. 20, 1953.
Wire, Single-stranded. The California Wire Cloth Corporation. 584,497, Jan. 12; Serial No. 618,443, published Oct. 6, 1953.

CLASS 15

Gasoline. Richfield Oil Corporation. 584,471, Jan. 12; Serial No. 581,900, published Oct. 13, 1953.
Grease containing molybdenum, Lubricating. The American Lubricants Co. 584,491, Jan. 12; Serial No. 614,923, published Oct. 6, 1953.
Lubricant, Petroleum base, surface conditioner and coating oil. The Brooks Oil Company. 584,680, Jan. 12; Serial No. 645,388, published Oct. 13, 1953.
Oils and greases, Lubricating. Red Giant Oil Company. 584,561, Jan. 12; Serial No. 635,662, published Oct. 13, 1953.
Oils, Lubricating, lubricating oil compositions, etc. New York & New Jersey Lubricant Company. 310,104, renewed Feb. 13, 1954. O. G. Jan. 12.
Tool joint compound, namely a mixture of powdered lead, powdered graphite, lubricating oil, etc. Chiksan Company. 584,533, Jan. 12; Serial No. 631,468, published Oct. 13, 1953.

CLASS 16

Paint, Interior flat wall. The Foy Paint Company, Inc. 584,741, Jan. 12; Serial No. 636,009.
Paints, Ready mixed, and paint enamels. Roberts Paint Corporation. 584,728, Jan. 12; Serial No. 624,659.

CLASS 18

Adrenocorticotropic hormone preparation. George A. Breon & Company. 584,675, Jan. 12; Serial No. 645,030, published Oct. 20, 1953.
Analgesic anti-pyretic and antispasmodic preparation. E. S. Miller Laboratories, Inc. 584,682, Jan. 12; Serial No. 645,582, published Oct. 20, 1953.
Anesthetic, Local and regional. Winthrop-Stearns Inc. 584,570, Jan. 12; Serial No. 636,321, published Sept. 29, 1953.
Antacid preparation. American Home Products Corporation. 584,665, Jan. 12; Serial No. 644,660, published Oct. 6, 1953.
Antibiotics. Merck & Co., Inc. 584,627, Jan. 12; Serial No. 642,235, published Oct. 6, 1953.
Antipyretic and mild analgesic. E. S. Miller Laboratories, Inc. 584,655, Jan. 12; Serial No. 644,332, published Sept. 29, 1953.
Aspirin tablets. M. A. Hendler. 584,630, Jan. 12; Serial No. 642,551, published Oct. 6, 1953.
Base for ointments. Duke Laboratories, Inc. 584,615, Jan. 12; Serial No. 641,024, published Oct. 20, 1953.
Chemical preparation for control of chronic respiratory disease in chickens. Midvale Chemical Company. 584,654, Jan. 12; Serial No. 644,330, published Oct. 6, 1953.
Chemotherapeutic preparation. Winthrop-Stearns Inc. 584,669, Jan. 12; Serial No. 644,703, published Oct. 13, 1953.
Choleretic, azoturic and anti-allergic product. O. Caudin. 584,470, Jan. 12; Serial No. 581,765, published Sept. 29, 1953.
Combinations of antibiotics and hormonal substances for medicinal use. Merck & Co., Inc. 584,666–7, Jan. 12; Serial Nos. 644,680–1, published Oct. 6, 1953.
Combinations of antibiotics and hormonal substances for medicinal use. Merck & Co., Inc. 584,668, Jan. 12; Serial No. 644,683, published Oct. 6, 1953.
Cough drops. I. Ehrlich. 584,734, Jan. 12; Serial No. 630,481.
Decongestant, antihistaminic and antiseptic preparation. Winthrop-Stearns Inc. 584,623, Jan. 12; Serial No. 641,653, published Oct. 6, 1953.
Derivative of phenothiazine. Societe des Usines Chimiques Rhone-Poulenc. 584,613, Jan. 12; Serial No. 640,651, published Oct. 20, 1953
Digestive tablets. Tailby-Nason Company. 93,046, renewed Aug. 12, 1953. O. G. Jan. 12.
Gall bladder stimulant. Lafayette Pharmacal Inc. 584,495, Jan. 12; Serial No. 618,047, published Sept. 29, 1953.
Laxative. C. D. McKinney. 584,740, Jan. 12; Serial No. 635,486.
Liniment, Rubbing, and counter irritant. Nyal Company. 350,961, Oct. 12, 1937. Republished Jan. 12.
Medicated jelly. Foster-Milburn Co. 584,657, Jan. 12; Serial No. 644,407, published Sept. 29, 1953.
Medicinal chewing gum. Afco Sales Corporation. 584,513, Jan. 12; Serial No. 624,870, published Sept. 29, 1953.
Medicinal preparation. Chicago Pharmacal Company. 584,684, Jan. 12; Serial No. 645,696, published Oct. 20, 1953.
Medicinal preparation. Eli Lilly and Company. 584,576, Jan. 12; Serial No. 637,060, published Oct. 20, 1953.
Medicinal preparation. Nyal Company. 364,430, Jan. 31, 1939. Republished Jan. 12.
Medicinal preparation. Sleep-Eze Co Inc. 584,681, Jan. 12; Serial No. 645,439, published Oct. 20, 1953.
Medicinal preparation. Y-Z Laboratories. 584,661, Jan. 12; Serial No. 644,481, published Sept. 29, 1953.
Medicinal preparations. Horlicks Limited. 584,633, Jan. 12; Serial No. 643,102, published Oct. 20, 1953.
Medicinal preparations. F. S. Malcolm. 584,685, Jan. 12; Serial No. 645,720, published Oct. 20, 1953.
Medicinal tablets, Hypnotic. Eli Lilly and Company. 311,538, renewed Mar. 27, 1954. O. G. Jan. 12.
Medicine, produced and sold in both elixir and tablet form, which medicine is used as an antispasmodic and sedative. Etheraft Chemical Company. 584,485, Jan. 12; Serial No. 610,264, published Sept. 29, 1953.
Mineral feed supplement. Farmcraft Feeds, Inc. 584,517, Jan. 12; Serial No. 627,933, published Sept. 29, 1953.
Mineral oil for medicinal use. Royalty Development Corp. 584,516, Jan. 12; Serial No. 627,149, published Sept. 29, 1953.
Ointment. Nyal Company. 369,805, Aug. 1, 1939. Republished Jan. 12.
Penicillin compounds. Bristol Laboratories Inc. 584,487, Jan. 12; Serial No. 611,218, published Oct. 20, 1953.
Pharmaceutical preparation. Van Slyke & Company, Inc. 584,521, Jan. 12; Serial No. 628,971, published Sept. 29, 1953.
Pharmaceutical products. Ilon Chemische Industrie G. m. b. H. 584,590, Jan. 12; Serial No. 638,118, published Sept. 29, 1953.

Pharmaceuticals, Various radioactive. Abbott Laboratories. 584,488, Jan. 12; Serial No. 611,332, published Oct. 20, 1953.
Poultry feed fortifier and conditioner containing vitamins and minerals, Liquid. West Coast Chemicals and Solvents Corporation. 584,628, Jan. 12; Serial No. 642,247, published Oct. 20, 1953.
Preparation for treatment of head colds, chest colds, etc. R. J. Sykes. 584,510, Jan. 12; Serial No. 624,247, published Sept. 29, 1953.
Product for removing horns from calves and kids. American Scientific Laboratories, Inc. 584,738, Jan. 12; Serial No. 633,701.
Salve against athlete's foot. W. S. S. Horton. 584,523, Jan. 12; Serial No. 629,244, published Oct. 20, 1953.
Sedative preparation. Smith, Kline & French Laboratories. 584,652, Jan. 12; Serial No. 644,197, published Sept. 29, 1953.
Sodium polyanhydromannuronic acid sulfate. American Home Products Corporation. 584,653, Jan. 12; Serial No. 644,273, published Oct. 6, 1953.
Somnifacient product. Schenley Laboratories, Inc. 584,660, Jan. 12; Serial No. 644,459, published Oct. 6, 1953.
Tablets for the relief of hypertension. Irwin, Neisler & Company. 584,670, Jan. 12; Serial No. 644,757, published Oct. 13, 1953.
Tablets for the treatment of hypertension. Irwin, Neisler & Company. 584,671, Jan. 12; Serial No. 644,758, published Oct. 6, 1953.
Vitamin capsules, Multiple. Battle Creek Dietetic Co. 584,547, Jan. 12; Serial No. 633,958, published Sept. 29, 1953.
Vitamin preparation. Barnes-Hind Laboratories. 584,509, Jan. 12; Serial No. 623,497, published Sept. 29, 1953.
Vitamin preparation, Multiple. Bernard Pharmacal Co., Inc. 584,486, Jan. 12; Serial No. 610,612, published Oct. 6, 1953.
Vitamins and minerals, Fortified multiple. Battle Creek Dietetic Co. 584,548, Jan. 12; Serial No. 633,959, published Sept. 29, 1953.

CLASS 19

Automobile seat covers, automobile arm rest covers, etc. Western Auto Supply Company. 584,692, Jan. 12; Serial No. 646,030, published Oct. 20, 1953.
Automobiles and trucks. Empresa Nacional de Autocamiones S. A. 584,530, Jan. 12; Serial No. 631,206, published Oct. 20, 1953.
Bicycles. Flandria Cycle Corporation. 584,710, Jan. 12; Serial No. 651,099, published Oct. 27, 1953.
Carriages, strollers, and coaches, Infants'. Thayer, Inc. 584,730, Jan. 12; Serial No. 626,965.
Dashboard trays, and decorative devices for motor vehicles. S. Kulwin. 584,508, Jan. 12; Serial No. 622,899, published Oct. 27, 1953.
Mirrors for vehicles, Rear view. Polacoat Incorporated. 584,478, Jan. 12; Serial No. 606,322, published Oct. 27, 1953.
Receptacles adapted to be attached beneath the dashboard of an automobile, etc. Robray Mfg. Co. 584,525, Jan. 12; Serial No. 629,517, published Oct. 20, 1953.
Safety belts for use in automobiles, Passenger. Air Associates, Inc. 584,593, Jan. 12; Serial No. 638,462, published Oct. 20, 1953.

CLASS 21

Battery, Storage. Life-Time Battery Corporation of America. 584,500, Jan. 12; Serial No. 619,250, published July 22, 1952.
Electric coffee makers. The Silex Company. 307,541, renewed Oct. 31, 1953. O. G. Jan. 12.
Electric wiring systems, Prefabricated. United Manufacturing and Service Co. 584,711, Jan. 12; Serial No. 619,319, published June 3, 1952.
Electrical apparatus. Eagle Electric Manufacturing Co., Inc. 584,518, Jan. 12; Serial No. 628,262, published Apr. 28, 1953.
Furnaces, Induction. Ajax Engineering Corporation. 584,588, Jan. 12; Serial No. 637,979, published Oct. 6, 1953.
Lighting fixtures and parts thereof, Electric. Moe Light, Inc. 584,605, Jan. 12; Serial No. 639,702, published Sept. 1, 1953.
Lighting outfits, Decorative, and electrically lighted Christmas decorative ornaments. Raylite Electric Corp. 584,502, Jan. 12; Serial No. 620,273, published Apr. 21, 1953.
Radio receiving sets and parts thereof, loud speaker diaphragms, transformers, etc. The Rola Company. 303,953, June 13, 1933. Republished Jan. 12.
Spark plugs. Circofire Spark Plug Company. 584,503, Jan. 12; Serial No. 620,591, published Oct. 6, 1953.

CLASS 22

Bowling pins. Vulcan Corporation. 584,702, Jan. 12; Serial No. 647,670, published Oct. 27, 1953.
Doll. I. L. Shinn. 584,735, Jan. 12; Serial No. 630,685.
Dolls. G., H. & E. Freydberg, Inc. 584,708, Jan. 12; Serial No. 650,700, published Oct. 20, 1953.
Dolls. Nancy Ann Storybook Dolls, Inc. 584,534, Jan. 12; Serial No. 631,940, published Oct. 20, 1953.

Fishing lure, Artificial. Bass River Tackle Testers. 584,519, Jan. 12; Serial No. 628,739, published Oct. 27, 1953.
Games, Board. Wales Game Systems, Inc. 584,564, Jan. 12; Serial No. 635,983, published Oct. 27, 1953.
Games, Board. Wales Game Systems, Inc. 584,565, Jan. 12; Serial No. 635,985, published Oct. 27, 1953.
Games, Board. Wales Game Systems, Inc. 584,566, Jan. 12; Serial No. 635,987, published Oct. 27, 1953.
Golf clubs and irons, golf balls, bags, etc. Accles & Pollock Limited. 307,415, renewed Oct. 24, 1953. O. G. Jan. 12.
Golf irons. The Horton Manufacturing Company. 308,163, renewed Nov. 21, 1953. O. G. Jan. 12.
Toy suction cleaners. The Hoover Company. 584,709, Jan. 12; Serial No. 650,709, published Oct. 27, 1953.

CLASS 23

Automatic valve. John F. Howarth, Inc. 309,011, renewed Dec. 26, 1953. O. G. Jan. 12.
Boring machines. Librascope, Incorporated. 584,648, Jan. 12; Serial No. 644,040, published Sept. 1, 1953.
Can openers, bottle openers, combined can opening and dispensing devices. American Can Company. 307,989, Nov. 14, 1933. Republished Jan. 12.
Gears, shafts, hubs, etc., Spur and helical. Dittmer Gear and Manufacturing Corp. 584,526, Jan. 12; Serial No. 629,656, published Sept. 15, 1953.
Milking machines and parts thereof, Automatic or continuous. V. J. Reeve & Son. 584,498, Jan. 12; Serial No. 618,940, published Sept. 8, 1953.
Milling machines. Perrish Steel Products, Inc. 584,658, Jan. 12; Serial No. 644,449, published Sept. 8, 1953.
Pastry frames, spatulas, juicers, saw setters, etc. Foley Manufacturing Company. 584,578, Jan. 12; Serial No. 637,367, published Sept. 15, 1953.
Power operated industrial trucks. Clark Equipment Company. 584,594, Jan. 12; Serial No. 638,695, published Sept. 1, 1953.
Pumping apparatus, Portable and stationary air-operated. Lincoln Engineering Company. 584,461, Jan. 12; Serial No. 527,143, published Sept. 15, 1953.
Pumps. Byron Jackson Co. 584,646, Jan. 12; Serial No. 643,961, published Sept. 1, 1953.
Saw blades, Hack, and band saw blades. The Henry G. Thompson & Son Company. 308,010, renewed Nov. 14, 1953. O. G. Jan. 12.
Sealing and stamping machines, Combined, and sealing machines. Mailometer Company. 93,103, Aug. 19, 1913. Republished Jan. 12.
Sewing machines. Mima Sewing Machine Mfg. Co., Ltd. 584,539, Jan. 12; Serial No. 632,644, published Sept. 15, 1953.
Sewing machines. Mima Sewing Machine Mfg. Co., Ltd. 584,586, Jan. 12; Serial No. 637,845, published Sept. 15, 1953.
Spray cleaning unit, Venetian blind. L. C. Robinson. 584,514, Jan. 12; Serial No. 625,369, published Sept. 15, 1953.
Sprayers, Pneumatic. J. J. Sedlacsik. 584,600, Jan. 12; Serial No. 639,145, published Sept. 8, 1953.
Spraying apparatus, Power operated, pneumatic. Elgin Sweeper Company. 584,520, Jan. 12; Serial No. 628,748, published Mar. 24, 1953.
Spring motors. Amplifier Corporation of America. 584,583, Jan. 12; Serial No. 637,812, published Sept. 1, 1953.
Stapling machines, binding machines and tacking machines. Acme Staple Company. 584,571, Jan. 12; Serial No. 636,450, published Sept. 1, 1953.
Tool handles, Striking. Holthouse & Hartup, Inc. 584,480, Jan. 12; Serial No. 608,004, published Sept. 15, 1953.

CLASS 24

Dry-cleaning machines. J. E. Martin Equipment Corporation. 584,494, Jan. 12; Serial No. 617,090, published Oct. 6, 1953.

CLASS 25

Locks, Bicycle. Sears, Roebuck and Co. 584,465, Jan. 12; Serial No. 550,094, published Dec. 20, 1949.

CLASS 27

Watch movements. Elgin National Watch Company. 93,432, Sept. 16, 1913. Republished Jan. 12.
Watches. Hamilton Watch Company. 584,501, Jan. 12; Serial No. 620,210, published Aug. 18, 1953.

CLASS 28

Pearls. B. D'Elia & Son. 584,739, Jan. 12; Serial No. 635,289.
Rings, Finger. Hamilton's, Inc. 584,742, Jan. 12; Serial No. 636,705.

CLASS 29

Device made of wire and cloth and intended to be hooked inside a can of paint and adapted to carry paint to be picked up by a paint applying roller. King Paint Roller, Inc. 584,727, Jan. 12; Serial No. 623,769.

CLASS 32

Furniture. Finer Chrome Products Co., Inc. 584,737, Jan. 12; Serial No. 632,117.
Tables and chairs, Kitchen and dinette. Douglas Furniture Corporation. 584,744, Jan. 12; Serial No. 642,737.

CLASS 33

Glass bottle. Motor Products Corporation. 584,724, Jan. 12; Serial No. 613,341.

CLASS 34

Air conditioners. Sears, Roebuck and Co. 584,540, Jan. 12; Serial No. 632,750, published Sept. 15, 1953.
Air conditioning systems, Oil or gas burning, and parts thereof. York-Shipley, Inc. 584,553, Jan. 12; Serial No. 634,505, published Sept. 15, 1953.
Blower wheels for use in moving air in various appliances such as hair dryers. Master Appliance Mfg. Co. 584,618, Jan. 12; Serial No. 641,314, published Oct. 13, 1953.
Boilers, Gas fired, conversion burners, and unit heaters. Hook & Ackerman, Inc. 584,477, Jan. 12; Serial No. 602,262, published Sept. 15, 1953.
Burners, Oil, gas and coal, oil, gas and coal boiler-burner units, etc. Massachusetts Heating Corporation. 584,490, Jan. 12; Serial No. 612,211, published Sept. 1, 1953.
Coolers for air or gas compressors, Inter and after, engine jacket water coolers, dehumidifiers, etc. Niagara Blower Company. 584,464, Jan. 12; Serial No. 545,518, published Sept. 8, 1953.
Duct outlet fixtures. Pennant Corporation. 584,614, Jan. 12; Serial No. 640,958, published Sept. 15, 1953.
Furnaces, and burners therefor, Hot air. Peerless Furnace and Foundry, Inc. 584,641, Jan. 12; Serial No. 643,707, published Sept. 15, 1953.
Gas valves. Harper-Wyman Company. 584,575, Jan. 12; Serial No. 636,980, published Sept. 15, 1953.
Heaters, Oil. Spiegel, Inc. 584,638, Jan. 12; Serial No. 643,562, published Sept. 15, 1953.
Metal forms for guiding the construction of internal details of fireplaces and to provide heating warm air circulating chambers. Bennett-Ireland, Inc. 584,651, Jan. 12; Serial No. 644,159, published Sept. 29, 1953.
Ranges, Coal, wood, gas and oil cooking, space heaters, floor furnaces, etc. Wrought Iron Range Company. 584,505, Jan. 12; Serial No. 620,646, published Sept. 1, 1953.
Ranges, Coal, wood, gas and oil cooking, space heaters, floor furnaces, etc. Wrought Iron Range Company. 584,506, Jan. 12; Serial No. 620,651, published Sept. 1, 1953.
Signal device, Highway warning. Anthes Force Oiler Company. 584,469, Jan. 12; Serial No. 576,839, published Sept. 22, 1953.
Temperature and humidity-controlled cabinets. American Instrument Company, Inc. 584,545, Jan. 12; Serial No. 633,826, published Oct. 13, 1953.
Ventilators, Powered roof. Penn Ventilator Company. 584,538, Jan. 12; Serial No. 632,322, published Sept. 1, 1953.

CLASS 35

Tires, Pneumatic rubber. Seiberling Rubber Company. 584,707, Jan. 12; Serial No. 649,392, published Oct. 27, 1953.

CLASS 37

Correspondence envelopes. Dokeris and Argyris. 584,549, Jan. 12; Serial No. 634,076, published Oct. 6, 1953.
Loose leaf binders, Leather, removable ring binders, and loose leaf books. Digby Products Ltd. 584,476, Jan. 12; Serial No. 600,037, published Oct. 6, 1953.
Paper, Printing, and writing paper. The Sorg Paper Company. 363,142, Dec. 13, 1938. Republished Jan. 12.
Paper, Printing, writing paper, tag paper, etc. The Sorg Paper Company. 442,715, May 17, 1949. Republished Jan. 12.
Paper towels. Crown Zellerbach Corporation. 584,462, Jan. 12; Serial No. 542,007, published Oct. 6, 1953.
Paper, Writing, bond paper, and ledger paper. The Sorg Paper Company. 444,157, Aug. 15, 1950. Republished Jan. 12.
Paper, Writing, printing paper, offset paper, etc. The Sorg Paper Company. 442,694, May 10, 1949. Republished Jan. 12.
Tissue, Toilet, wrapping paper, printing paper, etc. The Sorg Paper Co. 389,246, July 29, 1941. Republished Jan. 12.

CLASS 39

Clothing, Children's. J. F. Wilson. 584,511, Jan. 12; Serial No. 624,514, published Dec. 23, 1952.
Clothing, Men's and boys'. Michaels, Stern & Company, Incorporated. 584,631, Jan. 12; Serial No. 642,564, published Sept. 22, 1953.
Coats and capes, Misses' rain. Fitzgibbons Co. 584,656, Jan. 12; Serial No. 644,400, published Sept. 22, 1953.
Coats, Boys'. Rutgers Coat Co., Inc. 581,473, Jan. 12; Serial No. 594,066, published Oct. 13, 1953.
Dresses, Children's. Rootie Kazootie, Inc. 584,688, Jan. 12; Serial No. 645,834, published Oct. 13, 1953.
Dresses, skirts, coats, dress and jacket ensembles, etc., Ladies' and misses'. David Crystal, Inc. 584,693, Jan. 12; Serial No. 646,532, published Oct. 20, 1953.
Dresses, suits, jackets, etc, Women's and children's. Marshall Field & Company. 307,432, renewed Oct. 24, 1953. O. G. Jan. 12.
Garments, Boys'. Lee-Wald Garment Company. 584,484, Jan. 12; Serial No. 609,730, published Oct. 20, 1953.
Gloves, Household and garden. Brookville Glove Company. 584,608, Jan. 12; Serial No. 640,034, published Aug. 18, 1953.
Hats. T. R. di Montelera. 584,475, Jan. 12; Serial No. 597,876, published Sept. 1, 1953.
Hats. Hat Corporation of America. 584,645, Jan. 12; Serial No. 642,903, published Sept. 1, 1953.
Hats and caps. John B. Stetson Company. 584,677, Jan. 12; Serial No. 645,198, published Sept. 22, 1953.
Hats, caps, and gloves. John B. Stetson Company. 584,621, Jan. 12; Serial No. 641,476, published Sept. 1, 1953.
Hats, Men's, ladies' and children's. Texas Harvest Hat Company. 584,531–2, Jan. 12; Serial Nos. 631,447–8, published Sept. 8, 1953.
Hats, Men's, ladies', and children's. Texas Harvest Hat Company. 584,591, Jan. 12; Serial No. 638,329, published Sept. 8, 1953.
Hosiery. J. W. Landenberger & Co. Inc. 584,592, Jan. 12; Serial No. 638,424, published Oct. 13, 1953.
Hosiery. Morton's. 584,595, Jan. 12; Serial No. 638,734, published Oct. 20, 1953.
Hosiery and more particularly socks, wool and wool mixed hunting socks, etc., Men's. Ballston-Stillwater Knitting Company, Inc. 584,611, Jan. 12; Serial No. 640,425, published Oct. 20, 1953.
Hosiery and more particularly socks, wool and wool mixed hunting socks, etc., Men's. Ballston-Stillwater Knitting Company, Inc. 584,612, Jan. 12; Serial No. 640,426, published Oct. 13, 1953.
Hosiery and stockings, opera hose, etc., Women's. Triumph Hosiery Mills, Inc. 584,683, Jan. 12; Serial No. 645,607, published Oct. 13, 1953.
Hosiery and underwear. A. Carson. 306,313, renewed Sept. 12, 1953. O. G. Jan. 12.
Hosiery, Children's. Wee-Sox Hosiery Mills, Incorporated. 584,582, Jan. 12; Serial No. 637,806, published Oct. 27, 1953.
Hosiery, knitted underwear, knitted T shirts, etc., Men's, women's, and children's. May Hosiery Mills. 584,557, Jan. 12; Serial No. 635,092, published Oct. 20, 1953.
Hosiery, Men's. Ballston-Stillwater Knitting Company, Inc. 584,625, Jan. 12; Serial No. 642,061, published Oct. 13, 1953.
Hosiery, Men's. Bear Brand Hosiery Co. 584,522, Jan. 12; Serial No. 629,146, published Oct. 13, 1953.
Hosiery, Men's, women's, and children's. Jerks Socks, Inc. 584,599, Jan. 12; Serial No. 639,117, published June 2, 1953.
Hosiery, Women's. Airmaid Hosiery Mills. 584,554, Jan. 12; Serial No. 634,512, published Oct. 13, 1953.
Hosiery, Women's. Airmaid Hosiery Mills. 584,607, Jan. 12; Serial No. 639,976, published Oct. 13, 1953.
Overalls. Oshkosh B'Gosh, Inc. 584,466, Jan. 12; Serial No. 558,915, published Oct. 13, 1953.
Pants, Football, wrestling, and basket ball, and wrestling and skating tights. Sand Knitting Mills Co. 584,629, Jan. 12; Serial No. 642,308, published Oct. 13, 1953.
Shawls or stoles. Maison Duffée Inc. 584,647, Jan. 12; Serial No. 643,968, published Sept. 22, 1953.
Shirts, sport jackets, and sport slacks, Men's and boys' sport. Bedford Shirt Corp. 584,674, Jan. 12; Serial No. 644,958, published Sept. 22, 1953.
Shoes. The Moran Shoe Company, Inc. 303,794, June 6, 1933. Republished Jan. 12.
Shoes. The Moran Shoe Company, Inc. 305,669, Aug. 22, 1933. Republished Jan. 12.
Shoes, slippers, sandals. Ro-Search, Inc. 584,467, Jan. 12; Serial No. 564,697, published Oct. 20, 1953.
Skirts, Ladies' and misses'. Summit Sportwear Co. 584,697, Jan. 12; Serial No. 647,111, published Oct. 20, 1953.
Slips, nightgowns, pajamas, etc., Ladies' silk or rayon. The Patricia Petticoat Co., Inc. 308,636, renewed Dec. 12, 1953. O. G. Jan. 12.
Socks. Dwight S. Williams Company, Inc. 584,507, Jan. 12; Serial No. 621,434, published June 17, 1952.
Suits and sports coats, Men's. Lebow Bros., Inc. 584,673, Jan. 12; Serial No. 644,850, published Sept. 22, 1953.
Suits, sport coats, overcoats, topcoats, etc., Men's. Style Art Clothes, Inc. 584,606, Jan. 12; Serial No. 639,853, published Sept. 1, 1953.
Sweaters, Ladies'. Eastern Knitwear Co., Inc. 584,640, Jan. 12; Serial No. 643,667, published Sept. 22, 1953.
Topcoats, Men's. Merit Clothing Company. 584,672, Jan. 12; Serial No. 644,770, published Sept. 22, 1953.
Topcoats, overcoats, sport coats, etc., Men's. Malcom Kenneth Co. 584,687, Jan. 12; Serial No. 645,809, published Oct. 13, 1953.
Trousers and jackets. Day's Tailor-D Clothing, Inc. 584,483, Jan. 12; Serial No. 608,495, published Sept. 8, 1953.
Underwear and sleeping garments. Walter W. Moyer Company. 584,492, Jan. 12; Serial No. 616,436, published Sept. 16, 1952.

Uniforms, Children's play nurse. The Kendall Company. 584,635, Jan. 12; Serial No. 643,165, published Oct. 13, 1953.
Visors, Men's, women's, and children's. Frielich Brothers Corporation. 584,568, Jan. 12; Serial No. 636,279, published Sept. 22, 1953.
Visors, Men's, women's, and children's. Frielich Brothers Corporation. 584,569, Jan. 12; Serial No. 636,281, published Sept. 22, 1953.
Wearing apparel, Men's, women's, and children's. Lord Jeff Knitting Company. 308,056, renewed Nov. 21, 1953. O. G. Jan. 12.

CLASS 40

Barrettes and hair combs. H. Goodman & Sons, Inc. 584,695, Jan. 12; Serial No. 646,863, published Oct. 20, 1953.
Collar stays. The Maclean Company. 584,732, Jan. 12; Serial No. 628,158.
Garment-lacers and shoe-lacers. The Narrow Fabric Co. 94,301, re-renewed Nov. 25, 1953. O. G. Jan. 12.
Ribbon bows, Pre-tied. Parfait Promotional Packaging Company. 584,729, Jan. 12; Serial No. 626,261.

CLASS 41

Umbrellas. I. D. Rich. 584,574, Jan. 12; Serial No. 636,942, published Oct. 6, 1953.

CLASS 42

Blankets. Beacon Manufacturing Company. 584,642, Jan. 12; Serial No. 643,754, published Oct. 13, 1953.
Cloth, Print. Wm. Simpson Sons & Co., Inc. 584,577, Jan. 12; Serial No. 637,336, published Oct. 13, 1953.
Fabric, Textile. American Woolen Company. 584,555, Jan. 12; Serial No. 634,566, published Oct. 13, 1953.
Fabrics, Knitted. Barbet Mills, Inc. 584,699, Jan. 12; Serial No. 647,389, published Oct. 13, 1953.
Fabrics, Knitted and woven. Continental Mills, Inc. 584,527, Jan. 12; Serial No. 630,124, published Oct. 13, 1953.
Fabrics, Textile. Atlas Mills, Inc. 308,237, renewed Nov. 28, 1953. O. G. Jan. 12.
Fabrics, Textile. Manufactures de Senones (Vosges) Société à Responsabilité Limitée. 584,585, Jan. 12; Serial No. 637,834, published Oct. 13, 1953.
Fabrics, Textile. United States Rubber Company. 584,596, Jan. 12; Serial No. 638,884, published Oct. 13, 1953.
Fabrics, Vehicle body textile trimming. Automotive Materials Corporation. 584,620, Jan. 12; Serial No. 641,424, published Oct. 13, 1953.
Piece goods. Leeds Ltd. Coats, Inc. 584,746, Jan. 12; Serial No. 647,782.
Piece goods. Mooresville Mills, Inc. 584,649, Jan. 12; Serial No. 644,050, published Oct. 20, 1953.
Piece goods. Oberman Fabrics, Inc. 584,700, Jan. 12; Serial No. 647,518, published Oct. 13, 1953.
Webbing, Narrow elastic. United Elastic Corporation. 584,543, Jan. 12; Serial No. 633,396, published Oct. 20, 1953.

CLASS 43

Thread, Elastic. The Firestone Tire & Rubber Company. 584,479, Jan. 12; Serial No. 607,986, published Oct. 20, 1953.
Yarn, Synthetic. Majestic Rayon Corporation. 584,698, Jan. 12; Serial No. 647,303, published Oct. 20, 1953.
Yarns. Collins & Aikman Corporation. 584,701, Jan. 12; Serial No. 647,601, published Oct. 20, 1953.

CLASS 44

Artificial teeth. The Dentists' Supply Company of New York. 584,704, Jan. 12; Serial No. 648,237, published Oct. 27, 1953.
Impression compound. The S. S. White Dental Manufacturing Company. 584,504, Jan. 12; Serial No. 620,635, published Oct. 27, 1953.
Occlusal plane recorders. J. S. Miller. 584,602, Jan. 12; Serial No. 639,335, published Oct. 27, 1953.
Physicians' and surgeons' instruments. Electro Surgical Instrument Co. 584,603, Jan. 12; Serial No. 639,467, published Oct. 27, 1953.
Sanitary goods. Stern Brothers. 584,604, Jan. 12; Serial No. 639,524, published Oct. 27, 1953.
Skin therapy machines. Elysee Cosmetic Manufacturing Co. 584,703, Jan. 12; Serial No. 648,162, published Oct. 27, 1953.
Thermometer, Clinical. Faichney Instrument Corporation. 584,705, Jan. 12; Serial No. 648,240, published Oct. 27, 1953.

CLASS 45

Powder for making nonalcoholic nultless soft drinks. Cool Maid Candy Company. 364,784, Feb. 14, 1939. Republished Jan. 12.

CLASS 46

Alimentary pastes. Megs Macaroni Company. 584,726, Jan. 12; Serial No. 623,631.
Bread. The W. E. Long Co. 584,550–1, Jan. 12; Serial Nos. 634,148–9, published Oct. 6, 1953.
Butterin or margarin. Wm. J. Moxley, Inc. 122,730, Sept. 10, 1918. Republished Jan. 12.
Candy. L. S. Heath & Sons, Inc. 584,581, Jan. 12; Serial No. 637,773, published Oct. 13, 1953.
Candy. Robertson & Woodcock Limited. 584,634, Jan. 12; Serial No. 643,116, published Oct. 27, 1953.
Canned fruits and canned vegetables. Winn & Lovett Grocery Company. 584,598, Jan. 12; Serial No. 639,093, published Oct. 6, 1953.
Canned fruits, canned vegetables, canned fruit juices and canned vegetables juices, etc. Consolidated Companies, Inc. 584,460, Jan. 12; Serial No. 495,352, published Oct. 30, 1951.
Cheese. N. Dorman & Co., Inc., (N. Y.). 584,686, Jan. 12; Serial No. 645,786, published Oct. 6, 1953.
Cherries, Fresh. F. M. Nola. 584,622, Jan. 12; Serial No. 641,632, published Oct. 6, 1953.
Chili powder and chili pepper. Chili Products Corporation Ltd. 584,626, Jan. 12; Serial No. 642,197, published Oct. 20, 1953.
Cranberries. G. W. Davis. 95,405, re-renewed Feb. 17, 1954. O. G. Jan. 12.
Fish, Fresh, salted fish, frozen fish, etc. Collins, Lee Company. 584,617, Jan. 12; Serial No. 641,126, published Oct. 6, 1953.
Fish, Frozen fresh, frozen cooked fish. The Kroger Co. 584,664, Jan. 12; Serial No. 644,620, published Oct. 20, 1953.
Flounder and haddock fillets, Fresh frozen. D. F. &K. Lynfrost A/S. 584,529, Jan. 12; Serial No. 631,694, published Oct. 6, 1953.
Flour, Wheat. International Milling Company. 307,135, renewed Oct. 17, 1953. O. G. Jan. 12.
Flour, Wheat. The Kansas Flour Mills Corporation. 307,888, renewed Nov. 7, 1953. O. G. Jan. 12.
Flour, Wheat. Pillsbury Flour Mills Company. 256,758, May 21, 1929. Republished Jan. 12.
Flour, Wheat. Tennant & Hoyt Company. 340,519, Nov. 10, 1936. Republished Jan. 12.
Fruits, Fresh citrus. Sunkist Growers, Inc. 584,515, Jan. 12; Serial No. 626,008, published Sept. 2, 1952.
Jam and jelly, Cranberry, and cranberry syrup. G. C. Myers. 584,580, Jan. 12; Serial No. 637,603, published Oct. 6, 1953.
Jelly, Wild blackberry, marmalade, peach butter, etc. E. B. Gold. 584,550, Jan. 12; Serial No. 635,086, published Oct. 6, 1953.
Lettuce. Cris-Krisp Company. 584,559, Jan. 12; Serial No. 635,408, published Oct. 13, 1953.
Macaroni, spaghetti, noodles, etc. John F. Lalla Company. 94,007, re-renewed Oct. 28, 1953. O. G. Jan. 12.
Pickled pimentos, Sweet. Mother's Food Products, Inc. 584,558, Jan. 12; Serial No. 635,191, published Oct. 6, 1953.
Popcorn, Unpopped, oil to be used in popping corn, salt and artificial-butter-flavored salt. Blevins Popcorn Company, Inc. 584,489, Jan. 12; Serial No. 612,114, published Oct. 6, 1953.
Poultry, Dressed. J. Makowsky. 584,662, Jan. 12; Serial No. 644,507, published Oct. 6, 1953.
Preparation of coca, chocolate, sugar and skim milk powder. Bensdorp Inc. 584,723, Jan. 12; Serial No. 572,396.
Prepared meals. C. A. Beatty. 584,706, Jan. 12; Serial No. 648,720, published Oct. 13, 1953.
Rice, Packaged, and rice bran oil meal. Rice Growers Association of California. 584,541, Jan. 12; Serial No. 633,169, published Oct. 6, 1953.
Soup mixes. Thomas J. Lipton, Inc. 584,696, Jan. 12; Serial No. 647,082, published Oct. 6, 1953.
Tea. The Liverpool China & India Tea Company, Limited. 41,974, re-renewed Feb. 2, 1954. O. G. Jan. 12.
Vegetables, Fresh. J. S. Danenberg. 584,544, Jan. 12; Serial No. 633,715, published Oct. 6, 1953.
Vegetables, Fresh. P. P. Schoenburg. 308,603, renewed Dec 12, 1953. O. G. Jan. 12.
Wheat-flour. Valier & Spies Milling Co. 93,940, re-renewed Oct. 21, 1953. O. G. Jan. 12.

CLASS 47

Wine. Widmer's Wine Cellars. 309,527, renewed Jan. 16, 1954. O. G. Jan 12.
Wine, Port. Vidente, Costa & Companhia, Limitada. 309,509, renewed Jan. 16, 1954. O. G. Jan. 12.

CLASS 48

Beer. Kingsbury Breweries Company. 308,986–7, renewed Dec. 26, 1953. O. G. Jan. 12.
Beer. Kingsbury Breweries Company. 309,307, renewed Jan. 9, 1954. O. G. Jan. 12.
Malt beverages. Tacoma Brewing Co. 305,764, renewed Aug. 22, 1953. O. G. Jan. 12.

CLASS 49

Whiskey. The American Medicinal Spirits Company. 310,932, renewed Mar. 13, 1954. O. G. Jan. 12.
Whiskey. The American Medicinal Spirits Company. 310,937, renewed Mar. 13, 1954. O. G. Jan. 12.
Whiskey. Carrington and Company, Limited. 584,745, Jan. 12; Serial No. 645,867.
Whiskey. Glenmore Distilleries Co. 308,780, renewed Dec. 19, 1953. O. G. Jan. 12.
Whiskey. The American Medicinal Spirits Company. 310,925, renewed Mar. 13, 1954. O. G. Jan. 12.

Whiskey, gins, cocktails, etc. W. & A. Gilbey, Limited. 310,980, renewed Mar. 13, 1954. O. G. Jan. 12.
Whisky, Scotch. A. & A. Crawford, Limited. 584,736, Jan. 12; Serial No. 630,764.

CLASS 51

Deodorant powder, dusting powder, face powder, etc. The J. R. Watkins Company. 423,233, Aug. 27, 1946. Republished Jan. 12.
Depilatory, Hair. A. Laughlin. 584,632, Jan. 12; Serial No. 642,823, published Oct. 27, 1953.
Hair rinse. Beauty Counselors, Inc. 584,609, Jan. 12; Serial No. 640,321, published Oct. 27, 1953.
Liquid for use on the hair. Pimaud, Incorporated. 311,519, renewed Mar. 27, 1954. O. G. Jan. 12.
Perfume. Holiday, Inc. 584,601, Jan. 12; Serial No. 639,329, published Oct. 27, 1953.
Perfume. Maison Jeurelle, Inc. 304,152, June 20, 1933. Republished Jan. 12.
Rouge, rouge powder, etc. A. Bourjois & Co., Inc. 158,192, Aug. 29, 1922. New certificate. O. G. Jan. 12. (Formerly Class 6.)
Toilet preparation. W. F. Straub & Company. 346,598, June 1, 1937. Republished Jan. 12.

CLASS 52

Antiseptic agent for use in detergent preparations. Sterling Drug Inc. 584,679, Jan. 12; Serial No. 645,269, published Oct. 27, 1953.
Chemical preparation for use in cleaning coffee urns. Service Products, Incorporated. 584,678, Jan. 12; Serial No. 645,217, published Oct. 27, 1953.
Deodorant, powder, dusting powder, face powder, etc. The J. R. Watkins Company. 423,233, Aug. 27, 1946. Republished Jan. 12.
Detergents. Klenzade Products, Incorporated. 584,512, Jan. 12; Serial No. 624,550, published Oct. 27, 1953.
Shampoo, Medicated dog. House of Huston, Inc. 584,743, Jan. 12; Serial No. 637,252.
Soap compound, soap for laundry use, soap for textile trade, etc. National Milling and Chemical Company. 302,130, Mar. 28, 1933. Republished Jan. 12.

CLASS 100

Architectural services. G. L. Ely. 584,719, Jan. 12; Serial No. 641,919, published Oct. 20, 1953.
Establishment and maintenance of membership in an international technical society. The Institute of Radio Engineers, Inc. 584,722, Jan. 12; Serial No. 632,479, published Oct. 6, 1953.
Restaurant services. J. S. Grassfield. 584,717, Jan. 12; Serial No. 640,792, published Oct. 20, 1953.
Services to persons establishing and maintaining frozen custard stores and stands. Roly-Poly Corporation. 584,720, Jan. 12; Serial No. 642,840, published Oct. 20, 1953.

CLASS 101

Accounting and auditing services. F. F. Robinson. 584,716, Jan. 12; Serial No. 636,034, published Oct. 6, 1953.
Bookkeeping and accounting services, and tax service. Downs, Mohl & Co. (Not Inc.). 584,712, Jan. 12; Serial No. 545,729, published Oct. 20, 1953.

CLASS 102

Broking of real estate and businesses. The Locaters, Incorporated. 584,718, Jan. 12; Serial No. 641,624, published Oct. 6, 1953.
Ocean and inland marine insurance agency and brokerage services. American International Underwriters Corporation. 584,715, Jan. 12; Serial No. 630,659, published Oct. 20, 1953.

CLASS 103

Leasing of equipment to be used for precision cutting of hard materials. Cavitron Corporation. 584,714, Jan. 12; Serial No. 619,738, published Oct. 20, 1953.
Constructing and repairing of chemical processing plants, airfields, etc. Henry J. Kaiser Company. 584,721, Jan. 12; Serial No. 648,025, published Oct. 20, 1953.

CLASS 106

Chemically impregnating forest products. American Lumber & Treating Co. 584,713, Jan. 12; Serial No. 603,143, published Oct. 20, 1953.

CLASS 107

Providing religious educational services. The Moody Bible Institute of Chicago. 584,747, Jan. 12; Serial No. 641,198.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 12TH DAY OF JANUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bergfors, Carl A., Roslyn Heights, assignor to International Business Machines Corporation, New York, N. Y. Electronic trigger. Re. 23,770, Jan. 12.
Bersworth, Frederick C., Verona, N. J. Metal ion chelating compounds consisting of monophenyl polyalkylene polyamino polycarboxylic acids and salts. Re. 23,766, Jan. 12.
Bersworth, Frederick C., Verona, N. J. Hydroxy-aromatic alkylene di-imino di-acetic acids and salts. Re. 23,767, Jan. 12.
Bohnenblust, Walter H., Kansas City, Mo., assignor to Peters & Russell, Inc., Springfield, Ohio. Air-current deflector. Re. 23,773, Jan. 12.
California Research Corporation, assignee: *See*—
Cope, John Q., and Claussen.
Claussen, William H.: *See*—
Cope, John Q., and Claussen.
Cope, John Q., El Cerrito, and W. H. Claussen, Berkeley, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Selective solvent extraction of petroleum. Re. 23,768, Jan. 12.
Firestone Tire & Rubber Company, The, assignee: *See*—
Spencer, George A.
International Business Machines Corporation, assignee: *See*—
Bergfors, Carl A.
Merry Manufacturing Company, Inc., assignee: *See*—
Vanvick, Isak.
Peters & Russell, Inc., assignee: *See*—
Bohnenblust, Walter H.
Purex Corporation, Ltd., assignee: *See*—
Stoneman, Alan C.
Spencer, George A., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Foaming apparatus. Re. 23,772, Jan. 12.
Stoneman, Alan C., San Marino, assignor to Purex Corporation, Ltd., South Gate, Calif. Vacuum neutralization of detergents. Re. 23,774, Jan. 12.
Vanvick, Isak, Minneapolis, Minn., assignor, by mesne assignments, to Merry Manufacturing Company, Inc. Snowplow. Re. 23,771, Jan. 12.
Varian Associates, assignee: *See*—
Varian, Russell H.
Varian, Russell H., Cupertino, assignor to Varian Associates, San Carlos, Calif. Method and means for correlating nuclear properties of atoms and magnetic fields. Re. 23,769, Jan. 12.

LIST OF PLANT PATENTEES

Arp Nursey Company, assignee: *See*—
Swim, Herbert C.
Bosley, Edith C., assignee: *See*—
O'Neal, Conrad C.
O'Neal, Conrad C., near North Canton, assignor to Edith C. Bosley, Mentor, Ohio. Rose plant. 1,240, Jan. 12.
Swim, Herbert C., Ontario, Calif., assignor, by mesne assignments, to Arp Nursey Company, Tyler, Tex. Rose plant. 1,241, Jan. 12.

LIST OF DESIGN PATENTEES

Bargen, William J., Waukegan, Ill. Desk tray. 171,272, Jan. 12.
Boucher, Marcel, Eltingeville, N. Y. Necklace or similar article. 171,273, Jan. 12.
Boucher, Marcel, Eltingeville, N. Y. Bracelet or similar article. 171,274, Jan. 12.
Char-Gale Manufacturing Company, assignee: *See*—
Dovolis, Nick J.
Chiksan Company, assignee: *See*—
Jackson, Donald M.
Cook Chemical Company, assignee: *See*—
Juengling, Leonard E.
Coro, Inc., assignee: *See*—
Katz, Adolph.
Dovas, Sophia C., Pennsauken, N. J. Stocking. 171,275, Jan. 12.
Dovolis, Nick J., assignor to Char-Gale Manufacturing Company, Minneapolis, Minn. Air register. 171,276, Jan. 12.
Forrest, Norman, New York, N. Y. Plastic table mat or similar article. 171,277, Jan. 12.
Furey, Dillon C., Melbourne, Victoria, Australia. Pencil sharpener. 171,278, Jan. 12.
Herzberg, Hugo, Company, assignee: *See*—
Loeb, Stephen H.
Jackson, Donald M., assignor to Chiksan Company, Brea, Calif. Swivel joint. 171,279, Jan. 12.
Juengling, Leonard E., Kansas City, Kans., assignor to Cook Chemical Company, Kansas City, Mo. Combined can and closure cap therefor. 171,280, Jan. 12.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a bracelet or the like. 171,281, Jan. 12.
Kinsey, Roy J., Dalton, Ga. Chenille fabric. 171,282, Jan. 12.
Kramer, Maurice, New York, N. Y. Hanger device. 171,283, Jan. 12.
Le Febvre, Alfred L., Windsor, Conn., and D. M. Small, Springfield, assignors to Stanley Home Products, Inc., Westfield, Mass. Holder for wax applicator or the like. 171,284, Jan. 12.
Loeb, Stephen H., Brentwood, assignor to Hugo Herzberg Company, St. Louis, Mo. Rotatable jewelry display rack. 171,285, Jan. 12.
Ohme, Herman, Los Angeles, Calif. Set of chessmen or similar article. 171,286, Jan. 12.
Small, Douglas M.: *See*—
Le Febvre, Alfred L., and Small.
Stanley Home Products, Inc., assignee: *See*—
Le Febvre, Alfred L., and Small.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 12TH DAY OF JANUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott Laboratories, assignee: *See*—
Hasbrouck, Richard B.

Adkins, Harold E., Albuquerque, N. Mex. Hydraulic valve lifter. 2,665,670, Jan. 12.

Admiral Corporation, assignee: *See*—
Battles, Stewart S., and Moos.
Hoffmann, Elmer L., and Nelson.
Morton, Evans T.

Agate Corporation, assignee: *See*—
Wells, Norman C.

Agee, Howard H.: *See*—
Martin, Emmet L., and Agee.

Air Reduction Company, Incorporated, assignee: *See*—
Begerow, John H. W.
Crego, Francis T., and Fisher.

Aktiebolaget Celloplast, assignee: *See*—
Lindquist, Curt A. J.

Aktiebolaget Separator, assignee: *See*—
Erling, Sven J.
Staaff, Per H.

Albrecht, Karl, Maplewood, N. J., assignor to Forstner Chain Corporation. Cuff link. 2,665,465, Jan. 12.

Albrecht, Kurt, Pleasant Hills Borough, assignor to Hall Laboratories, Inc., Pittsburgh, Pa. Electronic conductivity meter. 2,666,164, Jan. 12.

Alcock, John F., Leeds, England. Means for effecting gear-change operations in variable speed power transmission mechanisms. 2,665,786, Jan. 12.

Aldrich Pump Company, The, assignee: *See*—
Gibbs, Lloyd T.

Allardt, Ernst W., Alliance, Ohio, assignor, by mesne assignments, to The Babcock & Wilcox Company, Jersey City, N. J. Rotary seam welding transformer. 2,666,121, Jan. 12.

Allbright-Nell Company, The, assignee: *See*—
Allbright, Norman J.
Crawford, Louis L.

Allbright, Norman J., assignor to The Allbright-Nell Company, Chicago, Ill. Container. 2,665,630, Jan. 12.

Allen, Edwin L., Cleveland Heights, and R. I. Schonitzer, Shaker Heights, Ohio, assignor, by mesne assignments, to said Schonitzer. Door control mechanism. 2,665,934, Jan. 12.

Allen, Raymond W., assigner to The Firestone Tire & Rubber Company, Akron, Ohio. Draught bar. 2,665,902, Jan. 12.

Allied Chemical & Dye Corporation, assignee: *See*—
Townend, Robert V., and Trout.

Allied Steel and Conveyors, Inc., assignee: *See*—
Harrison, Homer S.

Altenburger, Ernst: *See*—
Westinger, Karl, Altenburger, and Hirt.

Althouse, William S., Jr., Arcadia, assignor to Baker Oil Tools, inc., Vernon, Calif. Casing centering device. 2,665,762, Jan. 12.

American Brake Company, The, assignee: *See*—
Mueller, Emil G.
Smith, Charles G., and Best.

American Car and Foundry Company, assignee: *See*—
Ericson, George R.
Walsh, Robert.

American Cyanamid Company, assignee: *See*—
Bernstein, Seymour, Antonucci, and Heller.
Conroy, Edward A.
Davis, Selby B., and Willson.
Safir, Sidney R.

American Fibre Corporation, assignee: *See*—
Nordstrom, Gustaf E.

American Home Products Corporation, assignee: *See*—
Diamond, Julius, and Bruce.

American Optical Company, assignee: *See*—
Heath, William B.

American Viscose Corporation, assignee: *See*
Anglada, Joseph A
Eisen, John B.

Amico, Frank: *See*
Staccone, Valentine, and Amico.

Amsler Morton Corporation, assignee: *See*
Herman, Carl L.

Anderson, Albert E., Winslow, Wash. Folding table leg mounting means. 2,665,961, Jan. 12

Anderson, Marie H., Brooklyn, N. Y. Combined holder and dispenser means for containers for semifluids and fluids. 2,665,824, Jan. 12.

Anderson, William S., assignor of one-half to J. E. Axman, Williamsport, Pa. Coal feed tube. 2,665,796, Jan. 12.

Andrews, Norman F., Ankeny, assignor to Deere Manufacturing Co., Dubuque, Iowa. Corn harvester. 2,665,538, Jan. 12.

Anft, Otto, Berlin-Lichterfelde-Ost, Germany. Multiple compartmented bottle. 2,665,816, Jan. 12.

Anglada, Joseph A., White Plains, N. Y., assignor to American Viscose Corporation, Wilmington, Del. Reinforced package wrapper. 2,665,834, Jan. 12.

Anjanos, Philip G., Beloit, Wis. Wind speed and direction indicator. 2,665,583, Jan. 12.

Anker-Werke A. G., assignee: *See*—
Theenhaußen, Heinrich.

Antonucci, Rose M.: *See*
Bernstein, Seymour, Antonucci, and Heller.

Apex Electrical Manufacturing Company, The, assignee: *See*—
Cockerill, Gerald L., and Sindelar.

Archer, Henry, Toronto, Ontario, Canada. Holding device for fish lures. 2,665,517, Jan. 12.

Arco Company, The, assignee: *See*—
Lansing, Charles B., and Hart.

Arkell and Smiths, assignee: *See*—
Searle, Robert F.

Armour and Company, assignee: *See*
Roland, John F., Jr., and Gross.

Armstrong, Robert R., Akron, and B. M. Wolf, Wadsworth, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Testing cord fabric. 2,665,582, Jan. 12.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Salati, Octavio M.

Arnold, George B.: *See*—
Fitzwilliam, James W., and Arnold.

Arnold, George B., Glenham, H. V. Hess, Beacon, J. K. Truitt, Wappingers Falls, and J. W. Fitzwilliam, Beacon, assignors to The Texas Company, New York, N. Y. Separation of wax-like constituents from oil with a complexing agent in the presence of water. 2,666,020, Jan. 12.

Arthur, Robert A., assignor to The Garrett Corporation, Los Angeles, Calif. Differential and ratio control. 2,665,621, Jan. 12.

Arvey Corporation, assignee: *See*—
Ferguson, Clarence N.

Arvins, Nathan A.: *See*
Arvintz, Abraham A., Arvins, and Arvintz.

Arvintz, Abraham A., Bellerose, N. Y. Arvins, Brooklyn, and R. A. Arvintz, New York, assignors to Sanicom Company, Inc., Brooklyn, N. Y. Contaminating control device. 2,666,148, Jan. 12.

Arvintz, Robert A.: *See*
Arvintz, Abraham A., Arvins, and Arvintz.

Aschwanden, Paul, and K. Burri, Zurich, assignors to Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, Zurich Oerlikon, Switzerland. Cutter head. 2,665,472, Jan. 12.

Ash, Clifford L.: *See*—
Barker, Richard W., and Ash.

Aske, Irving E., Muskegon, assignor of one-half to K. W. Fitzpatrick, North Muskegon, Mich. Thermocouple. 2,666,090, Jan. 12.

Atlanta Paper Company, assignee: *See*—
Forrer, Homer W.

Auerbach, Zemach, New York, N. Y. Dispenser for safety razor blades. 2,665,802, Jan. 12.

Aurynger, John J., Baker, Calif. Gang paper clip. 2,665,463, Jan. 12.

Automatic Manufacturing Corporation, assignee: *See*
Ketcham, Lyman G.

Avery-Hardoll Limited, assignee: *See*—
Fraser, John.

Axman, James E., assignee: *See*
Anderson, William S.

Babcock & Wilcox Company, The, assignee: *See*—
Allardt, Ernst W.

Bachelet, Albert E., and H. Pitlik, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sequential circuits. 2,666,195, Jan. 12.

Backman, William O., Sacramento, and D. M. Redmon, Concord, Calif. In-line valve. 2,665,873, Jan. 12.

Bacon, Elbridge F., Flint, assignor to General Motors Corporation, Detroit, Mich. Pressure gauge. 2,665,584, Jan. 12.

Badische Anilin- & Soda-Fabrik Aktiengesellschaft, assignee: *See*—
Janson, Alfons.

Baer, Julius, Beverly Hills, Calif. Foot support and making. 2,665,505, Jan. 12.

Bagby, Ralph B., Evanston, assignor to Triangle Package Machinery Company, Chicago, Ill. Capping machine. 2,665,832, Jan. 12.

Baggs, Burton D., Jr.: *See*—
Smith, Alexander, and Baggs.

Baier, Willard E., Ontario, assignor to Sunkist Growers, Inc., Los Angeles, Calif. Attractants for cattle feeds. 2,665,987, Jan. 12.

Bakalar, Arthur B., San Francisco, and R. D. Sullivan, Oakland, assignors to Shell Development Company, San Francisco, Calif. Sizing paper. 2,665,983, Jan. 12.

Baker, Benjamin P.: *See*—
Ludwig, Leon R., Leeds, Baker, and Cumming.

Baker & Co., Inc., assignee: *See*—
Johnson, Joseph E.
Lincoln, Arnold J.

Baker, Donald J., Los Angeles, Calif. Pickup arm for phonographs. 2,665,919, Jan. 12.

Baker, Harold E., Danvers, and J. H. Brooks, West Peabody, assignors to Sylvania Electric Products Inc., Salem, Mass. Lamp basing machine. 2,665,894, Jan. 12.

Baker Oil Tools, Inc., assignee: *See*—
Althouse, William S., Jr.
Baker, Reuben C.
Childers, Roscoe O.

Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Well packer apparatus. 2,665,763, Jan. 12.

Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Los Angeles, Calif. Retrievable subsurface well tool. 2,665,764, Jan. 12.

Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Segmental slip subsurface well tool. 2,665,765, Jan. 12.

Ball, Charles F., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Bit securing device for rotary pavement cutters or the like. 2,665,893, Jan. 12.

Balzer, Vernon W., Van Nuys, assignor to Hallett Manufacturing Company, Inglewood, Calif. Shielding container. 2,666,092, Jan. 12.

Bancroft, William H., Jr., Valley Center, assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Aircraft control system for operating auxiliary power source at take-off. 2,665,860, Jan. 12.

Barcley, Gaylord A., St. Petersburg, Fla. Foundation garment. 2,665,424, Jan. 12.

Bard, Elmer H., assignor to Geerpres Wringer, Inc., Muskegon, Mich. Clip for attaching pails to supporting chassis. 2,665,922, Jan. 12.

Barker, Richard W., Jeffersonville, and C. L. Ash, Sellasburg, Ind. Perspective drafting machine. 2,665,486, Jan. 12.

Barlow, Marvin K., Ridgefield, Conn. Novelty animal spool support. 2,665,858, Jan. 12.

Barrow, Wilmer L., Manhasset, N. Y. Ultrahigh-frequency bridge circuit and apparatus. 2,666,132, Jan. 12.

Barton, Loy E., Princeton, N. J., assignor to Radio Corporation of America. Pulse discriminatory circuit. 2,666,135, Jan. 12.

Barton, Murray M., assignor to Injection Molding Company, Kansas City, Mo. Resilient container and closure therefor. 2,665,945, Jan. 12.

Bates, Maurice E., North Amherst, Mass. Positional reference device. 2,665,497, Jan. 12.

Battelle Development Corporation, The, assignee: *See*—
Schaffert, Roland M., McMaster, and Bixby.

Battles, Stewart S., and L. H. Moos, Galesburg, assignors, by mesne assignments, to Admiral Corporation, Chicago, Ill. Metallic door construction. 2,665,781, Jan. 12.

Beall, Charles R., and L. B. Reynolds, La Grange, assignors to West Point Manufacturing Company, West Point, Ga. Set mark eliminator. 2,665,715, Jan. 12.

Bean, Morris, and W. Beatty, assignors to Morris Bean & Company, Yellow Springs, Ohio. Steel banded aluminum mold. 2,665,967, Jan. 12.

Bean, Morris, & Company, assignee: *See*—
Bean, Morris, and Beatty.

Bear Archery Company, assignee: *See*—
Bear, Frederick B.

Bear, Frederick B., assignor to Bear Archery Company, Grayling, Mich. Composite archery bow. 2,665,678, Jan. 12.

Beattie, John O., Stamford, assignor to Cast Optics Corporation, Riverside, Conn. Producing transparent polystyrene sheets. 2,665,452, Jan. 12.

Beatty, William: *See*—
Bean, Morris, and Beatty.

Beaver Art Metal Corporation, assignee: *See*
Maroney, Clair F., Welsz, and McGrew.

Becker, Benjamin F., assignor to The Pyle-National Company, Chicago, Ill. Explosion-proof switch apparatus. 2,666,119, Jan. 12.

Becker, Philip D., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Joint for colateral superimposed tubular members. 2,665,927, Jan. 12.

Be-Ge Manufacturing Co., assignee: *See*
Tangemann, Albert H.
White, John A., Jr.

Begerow, John H. W., Wood-Ridge, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Torch holding attachment for gas cutting machines. 2,665,900, Jan. 12.

Beidler, Edward A., Columbus, and I. E. Campbell, Gahanna, Ohio, assignors, by mesne assignments, to Fansteel Metallurgical Corporation, North Chicago, Ill. Highly refractory molybdenum alloys. 2,665,474, Jan. 12.

Bell, Audley P., Claysville, Pa. Outlet box holder. 2,665,865, Jan. 12.

Bell & Gossett Company, assignee: *See*—
Lockhart, Harold A.

Bell & Howell Company, assignee: *See*—
Johnson, Elmer L.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bachelet, Albert E., and Pitlik.
Bonner, Arthur L.
Brelvogel, William G.
Clogston, Albert M.
Cornell, Warren A., Hall, Hecht, Koechling, Korn, and Powell.
Kinsley, Thomas G., and Mason.
Slonczewski, Thaddeus.
Trent, Robert L.

Bendix Aviation Corporation, assignee: *See*—
Blackman, Birt G.
Deardorff, Clinton E.
Gilbert, Samuel.
Kasak, Antonin, and Wesstrom.
MacCallum, Alan M., and Perkins.
McHenry, Harland L., and Parker.
Metsger, Charles S., and Gilbert.
Prather, Edwin E.
Price, Earl R.
Price, Harold W.
Troeger, Henry.
Volz, Arthur J., and Tarter.

Benjamin, Donald D., assignee: *See*—
Benjamin, Leonard L.

Benjamin, Leonard L., assignor of one-third to D. D. Benjamin, Cuba, and one-third to W. W. Rasey, Olean, N. Y. Pad for animal stalls. 2,665,664, Jan. 12.

Bergstein, Robert M., Wyoming, Ohio. Lined box structure. 2,665,835, Jan. 12.

Berkman, Meyer, New York, N. Y. Combined photograph camera carrying case and flashbulb holder. 2,665,801, Jan. 12.

Berkovitz, Harry, Weehawken, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Elevator inductor switch. 2,666,110, Jan. 12.

Berlant, Emmanuel: *See*—
King, Rollin W., and Berlant.

Bernstein, Seymour, and R. M. Antonucci, Pearl River, and M. D. Heller, Monsey, assignors to American Cyanamid Company, New York, N. Y. Preparing Δ⁴-pregnenes. 2,666,069, Jan. 12.

Best, Chris E., Franklin Township Summit County, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Heat stabilization of vinylidene chloride resins. 2,666,040, Jan. 12.

Best, Daniel A.: *See*—
Smith, Charles G., and Best.

Best, David M.: *See*—
Claypool, Robbins M., and Best.

Bethlehem Steel Company, assignee: *See*—
Dougherty, Robert S. A., Chamberlin, and Nieman.

Bickel, Arthur J., assignor, by mesne assignments, to Speedograph, Inc., Chicago, Ill. Bookkeeping device. 2,665,924, Jan. 12.

Birbaum, Lester W., assignor to La Belle Industries, Inc., Oconomowoc, Wis. Centrifugally engaged clutch. 2,665,790, Jan. 12.

Birtman Electric Company, assignee: *See*—
More, Philip J.

Birum, Herbert L., Jr.: *See*—
Hammitt, Andrew B., and Birum.

Bishop, John W., Plainfield, assignor to Tide Water Associated Oil Company, Bayonne, N. J. Rust inhibiting composition. 2,665,995, Jan. 12.

Bishop, John W., Plainfield, assignor to Tide Water Associated Oil Company, Bayonne, N. J. Substituted ammonium salts. 2,666,034, Jan. 12.

Bixby, William E.: *See*—
Schaffert, Roland M., McMaster, and Bixby.

Bixler, Harley H.: *See*—
King, Ralph E., and Bixler.

Black-Clawson Company, The, assignee: *See*—
Micholson, George B., Jr.

Blackman, Bertram W., Great Neck, N. Y. Material cutting device. 2,666,123, Jan. 12.

Blackman, Birt G., Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Stylus moving and guiding structure for electrical recorders. 2,665,965, Jan. 12.

Bladh, Elmer H.: *See*—
Rowe, Harry C., and Bladh.

Blakely, Robert T., Lagrange, assignor to International Business Machines Corporation, New York, N. Y. Crystal tetrode. 2,666,150, Jan. 12.

Blakeslee, Clinton A., Middlebury, and A. W. Jacobson, New Haven, assignors to The Bristol Company, Waterbury, Conn. Cloud-data recorder. 2,665,607, Jan. 12.

Blanchard, Andrew P., Ludlow, Mass. Septic tank. 2,666,030, Jan. 12.

Blight, Clayton G., Long Beach, Calif. Pipe loading device for trucks and the like. 2,665,815, Jan. 12.

Block, Myron W.: *See*—
Sternfield, George L., and Block.

Block, Richard J.: *See*—
Howard, Hartley W., Block, and Sevall.

Board, Francis S.: *See*—
Boileau, Arthur H., Rayman, and Board.

Bobst, Joseph S., Waukesha, Wis. Scaffolding. 2,665,951, Jan. 12.

Boeing Airplane Company, assignee: *See*—
Hill, James L.

Boersma, Barney, and J. S. Robinson, Grand Rapids, Mich., assignors to Sackner Products, Inc. Machine for manufacturing metal reinforced binding tape. 2,665,736, Jan. 12.

Boileau, Arthur H., and C. J. Rayman, Cedar Rapids, Iowa, and F. S. Board, Chicago, Ill., assignors to Cherry-Burrell Corporation, Wilmington, Del. Apparatus for treating liquids. 2,665,628, Jan. 12.

Bollaert, Armand R., Arcadia, and E. L. Neu, Hermosa Beach, Calif., assignors to Great Lakes Carbon Corporation, Chicago, Ill. High flow rate mineral filter aid. 2,665,813, Jan. 12.

Bonner, Arthur L., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Loss measurement in two-way electrical transmission systems. 2,666,099, Jan. 12.

Boon, William R., and C. H. Vasey, Manchester, England, assignors to Imperial Chemical Industries Limited, 2-alkoxyhexahydropyrimidine-4,6-dione derivatives and preparing same. 2,666,056, Jan. 12.

Borden Company, The, assignee: *See*—
Howard, Hartley W., Block, and Sevall.

Borg Warner Corporation, assignee: *See*—
Kanuch, John A.
Lauck, John A.
Lauck, John A., and Compton.
Rockwell, Edward A.

Borges, Walter F., and V. W. Goss, Milwaukee, Wis., assignors to Wrought Washer Mfg. Co. Expansion closure plug. 2,665,818, Jan. 12.

Bornus, Melford B., Montevideo, Minn. Nail pulling attachment for hammers. 2,665,882, Jan. 12.

Borst, Lyle B., Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Spectrometer. 2,666,147, Jan. 12.

Bosomworth, George P., Akron, and S. M. Clark, Parma, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Fastening device. 2,665,467, Jan. 12.

Bowen, William S., Westfield, N. J. Two-fluid centrifugal spray machine. 2,665,942, Jan. 12.

Bowie, Robert M., Manhasset, N. Y., assignor to Sylvania Electric Products, Inc. Disk seal tube. 2,666,160, Jan. 12.

Bowley, Raymond F., Boston, Mass. Bifurcated skirt. 2,665,428, Jan. 12.

Bozeman, Virgil F., Sr., Moline, C. W. Walz, and R. D. Griff, Rock Island, and H. F. Clausen, assignors to Deere & Company, Moline, Ill. Beet harvester. 2,665,533, Jan. 12.

Bradberry, Leon L., Berkeley, Calif. Fishing lure. 2,665,511, Jan. 12.

Bradley, Robert W., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Electrode system. 2,666,130, Jan. 12.

Brannin, Richard S., Jr., East Williston, and P. Halpert, Hempstead, N. Y., assignors to The Sperry Corporation. Servomotor system having differential torque displacement feedback. 2,666,177, Jan. 12.

Braun, Carl J.: *See*—
Housekeeper, Earl J., Hunter, and Braun.

Breivogel, William G., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Calling dial device. 2,666,097, Jan. 12.

Brill, William E., Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich. Crankshaft thrust bearing oil seal. 2,665,955, Jan. 12.

Bristol Company, The, assignee: *See*—
Blakeslee, Clinton A., and Jacobson.

British Celanese Limited, assignee: *See*—
Fisher, Walter J., and Eccles.

Brock & Rankin, Inc., assignee: *See*—
Hildmann, William B.

Brooks, Joseph H.: *See*—
Baker, Harold E., and Brooks.

Brooks, Joseph H., West Peabody, assignor to Sylvania Electric Products Inc., Salem, Mass. Article transfer apparatus. 2,665,814, Jan. 12.

Broughton, Arthur E., Glens Falls, N. Y. Spray nozzle. 2,665,946, Jan. 12.

Brown, Fordyce M.: *See*—
Tuttle, Clifton M., and Brown.

Brown, Frank E., Burbank, assignor to F. M. Turnbull, Los Angeles, Calif. Syringe assembly. 2,665,687, Jan. 12.

Brown, George R., and K. R. Larson, St. Paul, Minn. Machine for disintegrating and removing ice to form navigation channels. 2,665,655, Jan. 12.

Brown, Ralph, Fall Brook, assignor to Glass Labeling & Decorating Company, Los Angeles, Calif. Process and apparatus for making glass articles. 2,665,524, Jan. 12.

Brown, William E., Pewaukee, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Fixed differential adjusting means for pressure sensitive electrical control devices. 2,666,108, Jan. 12.

Bruce, William F.: *See*—
Diamond, Julius, and Bruce.

Brunner, Ernst, Wilmslow, and F. W. Hindes, Upper Mill, England, assignors to The Clayton Aniline Company Ltd. Optical bleaching agents containing two 1:2:3-triazole rings. 2,666,062, Jan. 12.

Bucci, Felice, assignor to Fondazione Emanuele Paterno, Rome, Italy. Preparation of cyanates of alkalimetals from urea and alkaline nitrites. 2,665,968, Jan. 12.

Buckeye Cotton Oil Company, The, assignee: *See*—
Rowe, Stewart.

Buckwalter, Howard M., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Cellulose fiber tire casing protected against heat aging. 2,665,733, Jan. 12.

Buckwalter, Howard M., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Protection of cellulose fiber against heat aging and tire casing containing such fiber. 2,665,734, Jan. 12.

Budd, Larry J., Chicago, assignor to Pallet Devices, Inc., Des Plaines, Ill. Palletized shipping structure. 2,665,806, Jan. 12.

Budd, Larry J., Chicago, assignor to Pallet Devices Incorporated, Des Plaines, Ill. Load supporting palletized container. 2,665,807, Jan. 12.

Budzyna, Walter J., East Douglas, Mass., and M. R. Flamand, Central Falls, R. I., assignors to Draper Corporation, Hopedale, Mass. Method and mechanism for filling control in smttleless looms. 2,665,716, Jan. 12.

Bunting, Ernest V., Dearborn, assignor to Harry Ferguson, Inc., Detroit, Mich. Tractor borne agricultural implement and hitch therefor. 2,665,622, Jan. 12.

Burkes, Alexander, assignor to Plastic Innovations, Inc., New York, N. Y. Inflatable animal toy. 2,665,519, Jan. 12.

Burri, Karl: *See*—
Aschwanden, Paul, and Burri.

Busch, Thomas N., Mobile, Ala. Bark-removing drum combined with hydraulic jet. 2,665,721, Jan. 12.

Butler, Arnold A., French Camp, assignor of two percent to F. A. Raymond and two percent to M. Hill, Tracy, Calif. Patient transferring device. 2,665,432, Jan. 12.

Butler, William F., Oakland, assignor to Cutter Laboratories, Berkeley, Calif. Needle assembly and producing said assembly. 2,665,689, Jan. 12.

Butz, Arthur N., Jr.: *See*—
Hunt, Frederick V., Schuck, Rutherford, Hathaway, and Butz.

C-Eight Laboratories, assignee: *See*—
Caruso, Mario.

California Research Corporation, assignee: *See*—
Stayner, Richard D.
Stayner, Richard D., and R. A.

Campbell, Ivor E.: *See*—
Beidler, Edward A., and Campbell.

Campbell, Ivor E., Gahanna, and B. W. Gonser, and C. F. Powell, Columbus, Ohio, assignors, by mesne assignments, to Fansteel Metallurgical Corporation, North Chicago, Ill. Highly refractory body. 2,665,475, Jan. 12.

Campbell, Ivor E., Gahanna, and B. W. Gonser, and C. F. Powell, Columbus, Ohio, assignors, by mesne assignments to Fansteel Metallurgical Corporation, North Chicago, Ill. Preparing highly refractory bodies. 2,665,997, Jan. 12.

Campbell, Ivor E., Gahanna, and B. W. Gonser, and C. F. Powell, Columbus, Ohio assignors to Fansteel Metallurgical Corporation, North Chicago, Ill. Preparing highly refractory bodies. 2,665,998, Jan. 12.

Campbell, Paul F., Saginaw, Mich. Coffee weighing device. 2,665,898, Jan. 12.

Carkeek, Charles R., Pasadena, Calif., assignor to The Texas Company, New York, N. Y. Generation of carbon monoxide. 2,665,980, Jan. 12.

Carlson, Clinton V., and W. E. Schober, assignors to Cosom Industries, Inc., Minneapolis, Minn. Machine for manufacturing hollow bodies from thermoplastic shell members. 2,665,739, Jan. 12.

Carpenter, Frank W., Minneapolis, Minn., assignor to General Mills, Inc. Flatiron cord connection. 2,666,125, Jan. 12.

Carpenter, Marshall M., Jr., Princeton, N. J., assignor to Radio Corporation of America. Frequency synchronizing apparatus. 2,666,136, Jan. 12.

Carpinella, Michael J.: *See*—
Fenton, Paul E., and Carpinella.

Carr, Edward L., and G. E. P. Smith, Jr., assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Vulcanization of rubber. 2,666,043, Jan. 12.

Carr, Hugh R. Cranford, assignor to Engineering Equipment Distributors, Inc., Kenilworth, N. J. Water softening apparatus. 2,666,031, Jan. 12.

Carter Parts Company, assignee: *See*—
Ellithorpe, Gilbert S.

Caruso, Mario, Maplewood, assignor to C-Eight Laboratories, Newark, N. J. Combination coin control. 2,665,791, Jan. 12.

Casco Products Corporation, assignee: *See*—
Lehmann, Herbert G.

Case, J. I., Company assignee: *See*—
Omon, Gene L., and Hohnl.

Caskin, Norman H., Marietta, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Heat-sealing apparatus for joining thermoplastic members. 2,665,738, Jan. 12.

Casselman, William C., Erskine, Minn. Device for spinning fish decoys. 2,665,591, Jan. 12.

Cast Optics Corporation, assignee: *See*—
Beattie, John O.

Catlin, Willard E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Alkyl acrylate/N hydrocarbon-substituted acrylamide/unsaturated tertiary amino compound copolymers. 2,666,044, Jan. 12.

Causley, Arthur L., Detroit, assignor to Michigan Powdered Metal Products Company, Northville, Mich. Fluid-permeable article and making the same. 2,665,960, Jan. 12.

Cawood, Harry P., Topeka, Kans. Rotating reel type lawn mower. 2,665,539, Jan. 12.

Cesare, Dominec J., Chicago, Ill. Device for cutting and forming meat patties and the like. 2,665,649, Jan. 12.

Chain Belt Company, assignee: *See*—
Strehlow, Robert W.

Chamberlin, Alan C.: *See*—
Dougherty, Robert S. A., Chamberlin, and Nieman.

Champagne, Neil A., assignee: *See*—
Polymeros, Donald P.

Champion Spark Plug Company, assignee: *See*—
Rusher, John J.

Chanowitz, Harry, Chicago, assignor to D. T. Siegel, Wheaton, Ill. Welding method and article produced thereby. 2,666,120, Jan. 12.

Chefford Master Manufacturing Co. Inc., assignee: *See*—
Waldherr, John, Jr.

Chenault, Roy L., Seneca, Pa., assignor to United States Steel Corporation. Hydraulic pumping unit. 2,665,551, Jan. 12.

Cherry-Burell Corporation, assignee: *See*—
Boileau, Arthur H., Rayman, and Board.

Chicago Bridge & Iron Company, assignee: *See*—
Moyer, Frederick D., and Scholbe.

Chicopee Manufacturing Corporation, assignee: *See*—
Simon, Simon A., and Drelich.
Stapleton, James A.

Childers, Roscoe O., Oklahoma City, Okla., assignor to Baker Oil Tools, Inc., Vernon, Calif. Method and apparatus for completing multiple production zone well bores. 2,665,759, Jan. 12.

Chisholm, Gilbert G., Lucan, Ontario, assignor to Ferros Metals Research Company Limited, Toronto, Ontario, Canada. Vortex concentrator. 2,665,809, Jan. 12.

Chisholm-Ryder Co., Inc., assignee: *See*—
Mitchell, Burritt B.

Chrysler Corporation, assignee: *See*—
Janeway, Robert N., and Van Der Sluys.
Smith, Robert H., and Van Haltern.
Terry, Sydney L.

Churchill, John W., Kenmore, N. Y., assignor to Mathieson Chemical Corporation. Purifying perchloromethylmercaptan. 2,666,081, Jan. 12.

Churchman, Nellie, executrix: *See*—
Churchman, Russell C.

Churchman, Russell C., deceased, Des Moines, by N. Churchman, executrix, Polk County, Iowa. Electrical actuation means for valves or the like. 2,666,167, Jan. 12.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Neher, Robert.
Sury, Ernst, and Hoffmann.

Cincinnati Milling Machine Co., The, assignee: *See*—
Haas, Frederick S., and Trible.
Horlacher, Herman.

Cities Service Research and Development Company, assignee: *See*—
Milsom, Daniel.

Clapp, James K., Cambridge, Mass., C. P. Spaulding, Pasadena, Calif., and B. E. Watt, Houston, Tex.; said Watt and said Spaulding assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Single side band mixer for moving target indicating radar systems. 2,666,141, Jan. 12.

Clark, Stanley M.: *See*—
Bosomworth, George P., and Clark.

Clark, Walter M., North Redondo, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Film viewer. 2,665,608, Jan. 12.

Clausen, Howard F.: *See*—
Bozeman, Virgil F., Sr., Walz, Griff, and Clausen.

Clausen, Robert J.: *See*—
Claussen, Richard H. and R. J.

Claussen, Richard H., Gary, and R. J. Claussen, Hammond, Ind. Screen on automobile and truck windows. 2,665,754, Jan. 12.

Clawson, Dwight, Clatskanie, Oreg. Valve leak detector. 2,665,580, Jan. 12.

Claypool, Robbins M., and D. M. Best, assignors to Houston Oil Field Material Company, Inc., Houston, Tex. Device for unscrewing pipe. 2,665,888, Jan. 12.

Clayton Aniline Company Ltd., The, assignee: *See*—
Brunner, Ernst, and Hindes.

Clemens, Albert, Louisville, Ky. Knee bayonet. 2,665,478, Jan. 12.

Clogston, Albert M., Morris Plains, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron device with long electron path. 2,666,163, Jan. 12.

Cloud, Raymond T., assignor to North American Geophysical Co., Houston, Tex. Pendulum and acceleration compensation apparatus. 2,665,499, Jan. 12.

Cockerill, Gerald L., Cleveland Heights, and W. F. Sindelar, assignors to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Drive mechanism for washing machines and the like. 2,665,575, Jan. 12.

Cody, Agnes E., Chicago, Ill. Apron. 2,665,425, Jan. 12.

Collins Radio Company, assignee: *See*—
Oenaschek, Frank J.
Williams, Winston F., and Phillips.

Colonial Broach Company, assignee: *See*—
Gothberg, Harry H.

Colvin, William L., Saratoga, assignor to Pacific Can Company, San Francisco, Calif. Can opening key. 2,665,821, Jan. 12.

Combustion Engineering, Inc., assignee: *See*—
Powell, Elno M.

Commonwealth Scientific and Industrial Research Organization, assignee: *See*—
Holloway, David L., and Thompson.

Compagnie des Metaux d'Overpelt-Lommel et de Corphalie S. A., assignee: *See*—
Fassotte, Adolphe D. H. L.

Compton, James A.: *See*—
Lauck, John A., and Compton.

Compute Corporation, The, assignee: *See*—
Lockhart, Marshall L.

Conroy, Edward A., Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y. 1-thiocarbamyl-4-heterocyclic piperazines. 2,666,055, Jan. 12.

Consolidated Vultee Aircraft Corporation, assignee: *See*—
Lee, Webster R.

Cook, Arnold G., Lombard, Ill., assignor to General Electric Company. Electric terminal block assembly. 2,666,189, Jan. 12.

Cookson, Leonard T., assignor to The Upjohn Company, Kalamazoo, Mich. Liquid level control. 2,666,109, Jan. 12.

Cooper, Dexter P., Jr., assignor to Polaroid Corporation, Cambridge, Mass. Electric projection lamp. 2,666,158, Jan. 12.

Copenhaver, John W., and D. E. Sargent, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Producing ω-halo-ω-trihalopropyl ethers. 2,666,083, Jan. 12.

Cornelius, Frank H., Shade Gap, Pa. Fuel burner 2,665,748, Jan. 12.

Cornell, Warren A., Beechhurst, N. Y., N. I. Hall, West Los Angeles, Calif., G. Hecht, Astoria, C. D. Koechling, Floral Park, N. Y., F. A. Korn, Westfield, and H. E. Powell, Clifton, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic discharge-tube controlled telephone switching system. 2,666,096, Jan. 12.

Corning Glass Works, assignee: *See*—
Crawford, Clark A., and Frazier.

Corrosion Control Company, The, assignee: *See*—
Vallett, Walter I.

Cosom Industries, Inc., assignee: *See*—
Carlson, Clinton V., and Schober.

Cosper, Dale L., assignor to Versal Inc., South Bend, Ind. Folding wheel chair. 2,665,743, Jan. 12.

Coughlin, Leo C., Toronto, Ontario, Canada. Heater for spark plugs. 2,665,672, Jan. 12.

Courtillot, Emmanuel P., Paris, France, assignor to General Electric Company. Phase modulation system. 2,666,181, Jan. 12.

Crane, Victor S., assignor to Delpark Corporation, Lebanon, Ind. Liquid filter device. 2,665,812, Jan. 12.

Crawford, Clark A., and J. F. Frazier, assignors to Corning Glass Works, Corning, N. Y. Electric appliance stand. 2,666,128, Jan. 12.

Crawford, Louis L., Western Springs, assignor to The Allbright-Nell Company, Chicago, Ill. Container with removable cover and cover clamping means for securing the cover in place. 2,665,822, Jan. 12.

Crego, Francis T., East Orange, and H. R. Fisher, Metuchen, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y. Desulfurization and decarburization of iron and iron alloys. 2,665,982, Jan. 12.

Cronshey, Raymond W.: *See*—
Ehrbar, Edward J., and Cronshey.

Crookston, Robert B., and A. L. Seljos, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Control valve. 2,665,713, Jan. 12.

Crown Cork & Seal Company, Inc., assignee: *See*—
Wilckens, Eibe A.

Cumming, Helen J., executrix: *See*—
Ludwig, Leon R., Leeds, Baker, and Cumming.

Cumming, James M.: *See*—
Ludwig, Leon R., Leeds, Baker, and Cumming.

Cunningham, Frederic, Jr., Belmar, N. J., and A. G. Emslie, Boston, Mass., assignors to The United States of America as represented by the Secretary of War. Cathode-ray storage tube. 2,666,137, Jan. 12.

Cunningham, Hal M., Branford, Conn., assignor, by decree of distribution, to Helen M. and J. L. Cunningham. Adjusting device. 2,665,489, Jan. 12.

Cunningham, Helen M., assignee: *See*— Cunningham, Hal M.

Cunningham, Jeanne L., assignee: *See*— Cunningham, Hal M.

Curtin, John L., Kenmore, and D. M. Yenni, Williamsville, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Inert gas shielded magnetic field controlled electric arc metal working process and apparatus. 2,666,122, Jan. 12.

Cutler-Hammer, Inc., assignee: *See*— Brown, William E. Fath, Douglas W. Seeger, Edwin W.

Cutter Laboratories, assignee: *See*— Butler, William F.

Darter, Rob R., Sikeston, Mo. Child's auxiliary seat for barber chairs. 2,665,746, Jan. 12.

Dasso, David, Lima, Peru. Speed controlled warning signal. 2,665,657, Jan. 12.

Daubenspeck, Henry C., assignee: *See*— Yonkers, Harold A., and Vierling.

Davis, Elwood T., Havertown, assignor to Leeds and Northrup Company, Philadelphia, Pa. Rate and reset rebalanceable control system. 2,666,170, Jan. 12.

Davis, Ralph C., and H. H. Deist, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Electric motor positioned according to time-temperature schedule. 2,666,173, Jan. 12.

Davis, Selby B., Greenwich, and S. D. Willson, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Anilinoisoquinolines and preparing the same. 2,666,059, Jan. 12.

Dawson, E. L., assignee: *See*— Hodgson, George H.

Day, Lamar L., assignee: *See*— Day, Leslie.

Day, Leslie, Chicago, Ill., assignor of one-half to L. L. Day, St. George, Staten Island, N. Y. Electrical switch mechanism. 2,666,115, Jan. 12.

Deardorff, Clinton E., San Fernando, assignor to Bendix Aviation Corporation, North Hollywood, Calif. Load responsive pressure regulating valve. 2,665,552, Jan. 12.

Deere & Company, assignee: *See*— Bozeman, Virgil F., Sr., Walz, Griff, and Clausen, Paul, Talbert W.

Deere Manufacturing Co., assignee: *See*— Andrews, Norman F. Stevens, Wayne E.

Deffenbaugh, James F., assignor to The Federal Machine and Welder Co., Warren, Ohio. Maintenance device. 2,665,530, Jan. 12.

De Hoff, Hugh C., Roselle Park, N. J., assignor to Standard Oil Development Company. Cleaning automobile radiators. 2,666,000, Jan. 12.

De Hymel, Jean, Pasadena, Calif. Making decorative ceramic articles. 2,665,469, Jan. 12.

Deike, George H., Jr.: *See*— Green, Daniel A., and Deike.

Deist, Herbert H.: *See*— Davis, Ralph C., and Deist.

De Leonardis, Michael J., Valley Stream, N. Y. Self-locking hinge. 2,665,448, Jan. 12.

Delpark Corporation, assignee: *See*— Crane, Victor S.

De Ment, Harold E., Decatur, and H. L. Wismusky, Forsyth, assignors to Tryco Manufacturing Co., Inc., Decatur, Ill. Rotary pump. 2,665,642, Jan. 12.

Dennison Manufacturing Company, assignee: *See*— Flood, Carl A.

De Quasie, Lacey G., and R. E. Kochs, assignors to Rochester Lead Works, Inc., Rochester, N. Y. Electrode for chromium plating. 2,666,029, Jan. 12.

Desarco Corporation, assignee: *See*— Miller, Edith J. B.

Detling, Kenneth D., H. S. Knight, and G. T. Williamson, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Production of primary halides. 2,666,084, Jan. 12.

Development Research, Inc., assignee: *See*— Soffer, Jack W.

De Wiess, Ferdinand A., assignor to M. Fletcher, New York, N. Y. Adjustable bracket structure. 2,665,870, Jan. 12.

De Witt, Louis L., Bakersfield, Calif. Mixing bowl holder. 2,665,872, Jan. 12.

Dexter, Fred H., Monrovia, Calif. Liquid treating apparatus. 2,665,559, Jan. 12.

Diamond Alkali Company, assignee: *See*— Koch, George J., Jr. Silsby, Christopher C., Jr.

Diamond, Julius, Philadelphia, and W. F. Bruce, Havertown, Pa., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y. Substituted azacycloalkanes and producing them. 2,666,050, Jan. 12.

Dicke, Oscar H., New Bremen, Ohio. Electromechanical clock. 2,665,543, Jan. 12.

Dicke, Robert H., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Waveguide mixer. 2,666,134, Jan. 12.

Diessel, Anton E., Fenton, assignor to International Shoe Company, St. Louis, Mo. Machine for forming shoe quarters. 2,665,437, Jan. 12.

Dilworth, John P., Fishkill, W. J. Finn, Pawling, and O. P. Puryear, Fishkill, assignors to The Texas Company, New York, N. Y. Lithium soap grease containing methacrylate ester polymer for bearing noise suppression. 2,666,033, Jan. 12.

Dinstman, Hyman, assignor to I. D. Watch Case Co., Inc., New York, N. Y. Waterproof snapback watchcase. 2,665,545, Jan. 12.

Dodson, Wayne E., Caldwell, N. J., assignor to General Electric Company. Lubricant separating system for refrigerating machines. 2,665,557, Jan. 12.

Doran, Wilbur J., assignor to Eli Lilly and Company, Indianapolis, Ind. Substituted thiobarbituric acids and salts thereof. 2,666,057, Jan. 12.

Dougherty, Robert S. A., A. C. Chamberlin, and H. W. Nieman, Bethlehem, Pa., assignors to Bethlehem Steel Company. Treating strip. 2,666,003, Jan. 12.

Draper Corporation, assignee: *See*— Budzyna, Walter J., and Flamand.

Drelich, Arthur H.: *See*— Simon, Simon A., and Drelich.

Dudley, Andrew T., Port Arthur, Tex. Lawn edge trimmer. 2,665,540, Jan. 12.

Dunkle, Robert V.: *See*— Gier, Joseph T., and Dunkle.

Du Pont, E. I. de Nemours and Company, assignee: *See*— Catlin, Willard E.

Eagle, Lee, Jackson Heights, N. Y. Button feeding mechanism for button sewing machines. 2,665,651, Jan. 12.

Eastep, James L., Kansas City, Mo. Knockdown barbecue oven. 2,665,682, Jan. 12.

Eastern Venetian Blind Company, The, assignee: *See*— Rosenbaum, Harry S.

Eastman Kodak Company, assignee: *See*— Kuhrt, Noel H.

Ebeltoft, William H., San Francisco, Calif., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Burner and coaxial flame rod assembly. 2,665,749, Jan. 12.

Eccles, Thomas: *See*— Fisher, Walter J., and Eccles.

Edgemond, John W., Jr., Los Altos, assignor to Magna Engineering Corporation, San Francisco, Calif. Dado saw assembly. 2,665,722, Jan. 12.

Edward Valves, Inc., assignee: *See*— MacGregor, David.

Edward Valves Incorporated, assignee: *See*— MacGregor, David.

Edwards, Wayne R., Des Moines, Iowa. Ladder platform. 2,665,952, Jan. 12.

Edwin Corporation, The, assignee: *See*— Insley, Bert T.

Elerbar, Edward J., and R. W. Cronshey, assignors to The Radiart Corporation, Cleveland, Ohio. Antenna. 2,666,198, Jan. 12.

Eisen, John B., Waterloo, Wis., assignor to American Viscose Corporation, Wilmington, Del. Textile-finishing compositions, finished articles, and producing them. 2,666,038, Jan. 12.

Elastomer Chemical Corporation, assignee: *See*— Schwencke, Edmund H.

Elektrokemisk A/S, assignee: *See*— Johansson, Folke C. E., and Tiberg.

Elliott Brothers (London) Limited, assignee: *See*— Olah, George, and Smith.

Ellis, Lockwood B., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Hydraulic lash adjuster. 2,665,669, Jan. 12.

Ellis, William H., Loyelaceville, Ky. Method and apparatus for drilling wells. 2,665,886, Jan. 12.

Ellithorpe, Gilbert S., assignor to Carter Parts Company, Chicago, Ill. Sliding contactor switch construction. 2,666,101, Jan. 12.

Ellsworth, Carl E., Louisville, Ky., assignor, by mesne assignments, to National Cylinder Gas Company, Chicago, Ill. System for controlling oscillator grid current. 2,666,129, Jan. 12.

Elsner, Edwin C., Glendale, Calif. Adjustable support device for litters and the like. 2,665,431, Jan. 12.

Emslie, Alfred G.: *See*— Cunningham, Frederic, Jr., and Emslie.

Endres, Richard O., Audubon, N. J., assignor to Radio Corporation of America. Semiconductor relaxation oscillator. 2,666,139, Jan. 12.

Engelhart, William A., deceased, Pontiac, Mich., by W. A. Engelhart, Jr., administrator, assignor to General Motors Corporation, Detroit, Mich. Coke breeze bonded by Portland cement. 2,665,977, Jan. 12.

Engelhart, William A., Jr., administrator: *See*— Engelhart, William A.

Engineering Equipment Distributors, Inc., assignee: *See*— Carr, Hugh R.

English Electric Company Limited, The, assignee: *See*— Hughes, John O. P.

Ens, Arthur, Hepburn, Saskatchewan, Canada. Adjustable gear. 2,665,569, Jan. 12.

Enslein, Kurt, and F. J. Haskins, Rochester, N. Y., assignors to Stromberg-Carlson Company. Methods and apparatus for making conductive patterns of predetermined configuration. 2,666,008, Jan. 12.

Erieson, George R., Kirkwood, Mo., assignor to American Car and Foundry Company, New York, N. Y. Tilted container. 2,665,949, Jan. 12.

Erling, Sven J., Nockeby, assignor to Aktiebolaget Separator, Stockholm, Sweden. Pneumatic pulsator. 2,665,703, Jan. 12.

Etablissements St. Chamond-Granat, assignee: *See*— Génini, Victor, and Latapie.

Etavex, S. A., assignee: *See*— Fortier, André L. A.

Ethicon, Inc., assignee: *See*— Schaefer, Robert J.

Everitt, Philip F., Seven Kings, and J. Keeble, Ilford, England, assignors, by mesne assignments, to Kelvin & Hughes Limited, Glasgow, Scotland. Sextant and other angle measuring instruments. 2,665,484, Jan. 12.

Eversole, William G., Kenmore, B. O'Brien, East Rochester, and R. H. Gillette, Kenmore, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Luminescent crystalline bodies. 2,666,145, Jan. 12.

Fafnir Bearing Company, The, assignee: *See*— Stanley, Charles F.

Fager, Clara V., administratrix, assignee: *See*— Fager, Raymond H.

Fager, Raymond H., deceased, North Wales, Pa.; C. V. Fager, administratrix of said R. H. Fager, assignor to C. V. Fager. Ventilator. 2,665,627, Jan. 12.

Fancher, Virgil: *See*— Schneider, Frank L., and Fancher.

Fansteel Metallurgical Corporation, assignee: *See* Beidler, Edward A., and Campbell. Campbell, Ivor E., Gonser, and Powell.

Fassotte, Adolphe D. H. L., Neerpelt, assignor to Compagnie des Metaux d'Overpelt-Lommel et de Corphalie S. A., Overpelt-lez-Neerpelt, Belgium. Apparatus for the roasting of ores or the like. 2,665,899, Jan. 12.

Fath, Douglas W., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric motor braking system. 2,666,176, Jan. 12.

Federal Machine and Welder Co., The, assignee: *See*— Deffenbaugh, James F.

Fenton, Paul E., Middlebury, and M. J. Carpinella, assignors to Scovill Manufacturing Company, Waterbury, Conn. Spring wire snap fastener socket. 2,665,468, Jan. 12.

Ferguson, Clarence N., Chicago, Ill., assignor to Arvey Corporation. Bis-trichloroethyl benzene phosphonate. 2,666,078, Jan. 12.

Ferguson, Edgar A., Jr., Brooklyn, N. Y. Nose drops. 2,666,012, Jan. 12.

Ferguson, Edgar A., Jr., Brooklyn, N. Y. Pruritus therapy. 2,666,013, Jan. 12.

Ferguson, Harry, Inc., assignee: *See*— Bunting, Ernest V.

Ferros Metals Research Company Limited, assignee: *See*— Chisholm, Gilbert G.

Fiene, Clara E., administratrix: *See*— Fiene, Marcus E.

Fiene, Marcus E., deceased, Scotia, N. Y., by C. E. Fiene, administratrix, Scotia, N. Y., assignor to General Electric Company. Two-temperature refrigeration system. 2,665,558, Jan. 12.

Finn, William J.: *See*— Dilworth, John P., Finn, and Puryear.

Firestone Tire & Rubber Company, The, assignee: *See*— Allen, Raymond W. Armstrong, Robert R., and Wolf. Best, Chris E. Bosomworth, George P., and Clark. Carr, Edward L., and Smith. Davis, Ralph C., and Deist. Foster, Frederick C. Hovey, Frank T. Noall, John. Reid, Robert J., and Smith. Slezak, Raymond J. Stevens, Horace D., and Waters.

Fisher, Harold R.: *See*— Crego, Francis T., and Fisher.

Fisher, Walter J., and T. Eccles, Spondon, near Derby, England, assignors to British Celanese Limited. Yarn supply creel. 2,665,857, Jan. 12.

Fite, Marcia, Poughkeepsie, N. Y. Wicker golf bag. 2,665,727, Jan. 12.

Fitzpatrick, John T., Charleston, W. Va., assignor to Union Carbide and Carbon Corporation. Isomerization of dichlorobenzenes. 2,666,085, Jan. 12.

Fitzpatrick, Karl W., assignee: *See*— Aske, Irving E.

Fitzwilliam, James W.: *See*— Arnold, George B., Hess, Truitt, and Fitzwilliam.

Fitzwilliam, James W., Beacon, and G. B. Arnold, Glenham, assignors to The Texas Company, New York, N. Y. Separation of low molecular weight hydrocarbons from hydrocarbon mixtures with a complexing agent. 2,666,048, Jan. 12.

Flamand, Maurice R.: *See*— Budzyna, Walter J., and Flamand.

Fletcher, Milton, assignee: *See*— De Wiess, Ferdinand A.

Flood, Carl A., assignor to Dennison Manufacturing Company, Framingham, Mass. Ticket strip. 2,665,509, Jan. 12.

Foerstel, Edmund C., and R. L. Kelsey, Los Angeles, Calif. Vacuum cleaner, including sectional housing and fastening means therefor. 2,665,445, Jan. 12.

Food Machinery and Chemical Corporation, assignee: *See*— Low, Frank S., and Roberts.

Ford, William E., assignor to Product Miniature Company, Milwaukee, Wis. Wheel for models and toys. 2,665,521, Jan. 12.

Forger, Homer W., Atlanta, Ga., assignor to Atlanta Paper Company. Carrying device for bottle carriers. 2,665,898, Jan. 12.

Forstner Chain Corporation, assignee: *See*— Albrecht, Karl.

Fortier, André L. A., Clamart, France, assignor to Etavex, S. A., Geneva, Switzerland. Pneumatic calibrating apparatus. 2,665,579, Jan. 12.

Forward, Frank A.: *See*— Halpern, Jack, and Forward.

Fossa, Joseph, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Cement handling means for thermoplastic adhesives. 2,665,823, Jan. 12.

Foster, Frederick C., Canal Fulton, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Copolymers of styrene and chloroprene prepared by cationic catalysis. 2,660,045, Jan. 12.

Foster, Willis R., and H. K. Wethe, Webster City, Iowa, assignors to Solar Corporation, Milwaukee, Wis. Rotary, turbine-type hydraulic coupling. 2,665,553, Jan. 12.

Fowler, Alvah W., Fort Worth, Tex. Golfer's accessory. 2,665,830, Jan. 12.

Fox, Herman H., Passaic, assignor to Hoffmann-La Roche Inc., Nutley, N. J. 1-isonicotinyl-2,2-disubstituted hydrazines. 2,666,053, Jan. 12.

Fram Corporation, assignee: *See*— Whipple, John E.

Francek, Joseph R., Fox River Grove, assignor to E. J. Sheehan, Chicago, Ill. Expanded wood veneer. 2,665,460, Jan. 12.

Frank Manufacturing Company, Inc., assignee: *See*— Mollenhour, Delbert C.

Franke & Heidecke, Fabrik Photographischer Präzisions-Appacate, assignee: *See* Heidecke, Reinhold.

Frantello, Alfio A., Wadsworth, N. Y. Fish lure. 2,665,515, Jan. 12.

Fraser, John, assignor to Avery-Hardoll Limited, Surbiton, England. Coupling device for pipes or conduits. 2,665,925, Jan. 12.

Fraser, John, assignor to Avery-Harold Limited, Tolworth, England. Coupling device for pipes or conduits. 2,665,926, Jan. 12.

Frazier, John F.: *See*— Crawford, Clark A., and Frazier.

Freimark, Leopold, New York, N. Y. Edge aligning or locating device and method. 2,665,402, Jan. 12.

Freyermuth, Harlan B.: *See* Williams, William W., Wallace, and Freyermuth.

Fuerst, Carl: *See* Weintraub, Herman, and Fuerst.

Fumagalli, Charles, Guatemala City, Guatemala. Electric generator with variable propeller and governing means therefor. 2,666,149, Jan. 12.

Fyr Fyter Company, The, assignee: *See* Housekeeper, Earl J., Hunter, and Braun.

Galbraith, Martin J., assignor to Sutherland Paper Company, Kalamazoo, Mich. Grease and moistureproof carton and container. 2,665,833, Jan. 12.

Garrett Corporation, The, assignee: *See*— Arthur, Robert A. Kemper, James M.

Garrett, William R., W. E. Liljestrand, and H. B. Young, assignors to Mission Manufacturing Company, Houston, Tex. Pumping system control for washing machines. 2,665,646, Jan. 12.

Gaskell, Walter L., Ypsilanti, Mich. Archer's bow. 2,665,679, Jan. 12.

Gaylord Container Corporation, assignee: *See*— Rendall, Warren C.

Georpres Wringer, Inc., assignee: *See*— Bard, Elmer H.

Geigy, J. R., A. G., assignee: *See*— Hüfliger, Franz, and Schindler.

General Aniline & Film Corporation, assignee: *See* Copenhaver, John W., and Sargent. Williams, William W., Wallace, and Freyermuth.

General Electric Company, assignee: *See* Cook, Arnold G. Courtillot, Emmanuel P. Dodson, Wayne E. Fiene, Marcus E. Grimshaw, Charles S. Hubbard, Albert B. Janos, Alfred G., and Horvay? Low, Frank D. King, Ralph E., and Bixler. Maxwell, Donald E. Pfeifer, Charles W. Reed, Robert T.

General Mills, Inc., assignee: *See* Carpenter, Frank W. La Mere, Frank J., Johnson, and Winzen.

General Motors Corporation, assignee: *See*—
Bacon, Elbridge F.
Brill, William E.
Ellis, Lockwood B.
Engelhart, William A.
Koehring, Roland P.
Wooster, Robert C.

Géninl, Victor, and M. Latapie, assignors to Etablissements SI. Chamond-Granat, Paris, France. Electric motor follow-up system for the adjustment of liquid levels. 2,666,172, Jan. 12.

Gerrard, A. J., & Company, assignee: *See*—
Gerrard, John M.

Gerrard, John M., assignor to A. J. Gerrard & Company, Melrose Park, Ill. Steel strapping and shield. 2,666,004, Jan. 12.

Gevaert Photo-Producten N. V., assignee; *See*—
Rott, André.

Ghormley, Edwin L., assignor to United Aircraft Products, Inc., Dayton, Ohio. Pressure fluid operated by-pass and relief valve. 2,665,708, Jan. 12.

Gibbs, Lloyd T., Tulsa, Okla., assignor to The Aldrich Pump Company, Allentown, Pa. Corrosion inhibitor. 2,666,026, Jan. 12.

Gier, Joseph T., Oakland, and R. V. Dunkle, Lafayette, assignors to The Regents of The University of California, Berkeley, Calif. Hemispherical radiometer sensing unit. 2,666,089, Jan. 12.

Gignoux, John R., San Gabriel, assignor to Shell Development Company, San Francisco, Calif. Apparatus for offshore coring. 2,665,885, Jan. 12.

Gilbert, A. C., Company, The, assignee: *See*—
Smith, Raymond D.
Smith, Raymond E., and Romer.

Gilbert, Charles T., assignor to Saginaw Manufacturing Company, Saginaw, Mich. Ironing board supporting structure. 2,665,507, Jan. 12.

Gilbert, Philip, Ferguson, assignor to Universal Match Corporation, St. Louis, Mo. Electronic counting device. 2,665,846, Jan. 12.

Gilbert, Samuel: *See*—
Metsger, Charles S., and Gilbert.

Gilbert, Samuel, Cedar Grove, assignor to Bendix Aviation Corporation, Teterboro, N. J. Engine starter apparatus. 2,665,586, Jan. 12.

Gilbert, Samuel, Cedar Grove, assignor to Bendix Aviation Corporation, Teterboro, N. J. Starter jaw advancing mechanism. 2,665,588, Jan. 12.

Gillette, Roger H.: *See*—
Eversole, William G., O'Brien, and Gillette.

Gilliland, Edwin R.: *See*—
Lewis, Warren K., and Gilliland.

Gilluly, Olive J., Los Angeles, Calif. Projecting kaleidoscopic mechanism for creating and projecting designs. 2,665,609, Jan. 12.

Glander, James J., Detroit, Mich., assignor, by mesne assignments, to Rockwell Spring and Axle Company, Coraopolis, Pa. Lubricant seal. 2,665,957, Jan. 12.

Glasgow, Clarence O.: *See*—
Walker, Jay P., and Glasgow.

Glass Labeling & Decorating Company, assignee: *See*—
Brown, Ralph.

Gleason, Charles H., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Radiation detector. 2,666,157, Jan. 12.

Gleitsman's, Inc., assignee: *See*—
Weintraub, Herman, and Fuerst.

Globe Slicing Machine Co., Inc., assignee: *See*—
Lundell, Arnold W.

Glynn, Edwin A., assignor to Super Mold Corporation of California, Lodi, Calif. Tire manipulating device. 2,665,883, Jan. 12.

Goldinger, Robert G., Codell, Kans. Collapsible fishing rod stand. 2,665,866, Jan. 12.

Gonser, Bruce W.: *See*—
Campbell, Ivor E., Gonser, and Powell.

Goodman Manufacturing Company, assignee: *See*—
Hagenbook, Loy D.
Hardy, James W.
Shomer, Joseph J.

Goodrich, B. F., Company, The, assignee: *See*—
Caskin, Norman H.
Hasselquist, Victor H.

Goon, Wong B., San Diego, Calif. Mophead having dual working surfaces. 2,665,441, Jan. 12.

Gora-Lee Corporation, The, assignee: *See*—
Johnson, Arthur A.

Goss, Vernon W.: *See*—
Borges, Walter E., and Goss.

Gotberg, Harry H., Detroit, assignor to Colonial Broach Company, Warren Township, Mich. Radius dresser. 2,665,680, Jan. 12.

Gould, Don T., Hawthorne, N. Y. Burial vault. 2,665,471, Jan. 12.

Gratlex, Inc., assignee: *See*—
King, Rollin W., and Berlant.
Smith, Clarence E.

Gray, Howard E., Toronto, Ontario, Canada. Table tennis bat. 2,665,908, Jan. 12.

Great Lakes Carbon Corporation, assignee: *See*—
Bollaert, Armand R$_6$ and Neu.

Green, Carl D., Brush Prairie, Wash. Device for combining the shock-absorbing and limiting action in couplings. 2,665,903, Jan. 12.

Green, Daniel A., and G. H. Deike, Jr., assignors to Mine Safety Appliances Company, Pittsburgh, Pa. Annular support for rigid protective hats. 2,665,422, Jan. 12.

Green, James M., Hayti, S. Dak. Device for removing quicksand, silt, or the like from wells. 2,665,767, Jan. 12.

Greene, Haskell M., Whittier, Calif. Well pump filter attachment. 2,665,643, Jan. 12.

Greenwood, Dolphice H., Pasadena, Calif. Valve. 2,665,714, Jan. 12.

Greer, Edward M., West Hempstead, and C. R. Wetterau, Huntington, assignors to Greer Hydraulics, Inc., Brooklyn, N. Y. Servicing equipment for lubricating systems. 2,665,772, Jan. 12.

Greer Hydraulics, Inc., assignee: *See*—
Greer, Edward M., and Wetterau.

Gregory, Marvin H., Roanoke, Va. Dusting tool. 2,665,446, Jan. 12.

Griff, Robert D.: *See*—
Bozeman, Virgil F., Sr., Walz, Griff, and Clausen.

Griffin, Lawrence C., Akron, Ohio. Chuck-key holder and safety device for power tools. 2,666,104, Jan. 12.

Grill, Raymond E., Long Beach, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Tip tank wedge support. 2,665,862, Jan. 12.

Grimshaw, Charles S., Erie, Pa., assignor to General Electric Company. Evaporator defrosting arrangement. 2,665,566, Jan. 12.

Griscom Russell Company, The, assignee: *See*—
Otten, Philip S.

Gross, Anthony M.: *See*—
Roland, John F., Jr., and Gross.

Gross, Daniel: *See*—
Schwartz, Samuel M., and Gross.

Grunt, Max, Newark, N. J. Ball valve. 2,665,878, Jan. 12.

Gumm, Earnest R., Cooper, Iowa. Adjustable cultivator shield. 2,665,994, Jan. 12.

Gutman, Alfred S., Brookline, Mass. Reversible radial air gap eddy current clutch. 2,666,154, Jan. 12.

Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Carton. 2,665,837, Jan. 12.

Gyrodyne Company of America, Inc., assignee: *See*—
Papadakos, Peter J.

Haas, Frederick S., Orgonia, and W. Trible, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Truing mechanism. 2,665,681, Jan. 12.

Haber, Karl K.: *See*—
Starr, Donald F., and Haber.

Hafferty, William A.: *See*—
Wood, Edwin E., and Hafferty.

Häfliger, Franz, and W. Schindler, assignors to J. R. Geigy A. G., Basel, Switzerland. N-acyl derivatives of iminodibenzyl. 2,666,051, Jan. 12.

Hagenbook, Loy D., assignor to Goodman Manufacturing Company, Chicago, Ill. Trough. 2,665,798, Jan. 12.

Hall, Arthur L., Memphis, Tenn. Powder mixer. 2,665,890, Jan. 12.

Hall Laboratories, Inc., assignee: *See*—
Albrecht, Kurt.

Hall, Nathan I.: *See*—
Cornell, Warren A., Hall, Hecht, Koechling, Korn, and Powell.

Hall, Ralph W., assignor to The Randall Company, Cincinnati, Ohio. Entry table for slitting mills. 2,665,756, Jan. 12.

Hallett Manufacturing Company, assignee: *See*—
Balzer, Vernon W.

Halpern, Jack, and F. A. Forward, Vancouver, British Columbia, assignors to National Research Council, Ottawa, Ontario, Canada. Precipitation of vanadium oxides. 2,665,970, Jan. 12.

Halpert, Percy: *See*—
Brannin, Richard S., Jr., and Halpert.

Hamilton Watch Company, assignee: *See*—
Sheldon, Charles W.
Van Haaften, Egbert.

Hammitt, Andrew B., Trenton, and H. L. Birum, Jr., Titusville, N. J. Fastening means for corrugated sheet material. 2,665,780, Jan. 12.

Hansen, Joseph R., Kingsburg, Calif. Water flow regulator. 2,665,706, Jan. 12.

Hanze, Arthur R., and R. H. Levin, assignors to The Upjohn Company, Kalamazoo, Mich. Simultaneous oxidation and halogenation of steroids. 2,666,067, Jan. 12.

Hanze, Arthur R., and R. H. Levin, assignors to The Upjohn Company, Kalamazoo, Mich. Halogenation of steroids. 2,666,068, Jan. 12.

Hanze, Arthur R., and R. H. Levin, Kalamazoo Township, Kalamazoo County, assignors to The Upjohn Company, Kalamazoo, Mich. Halogenation and oxidation of steroids. 2,666,072, Jan. 12.

Hardman, Dale G., Provo, Utah. Protective hot cap for plants. 2,665,523, Jan. 12.

Hardwick, Frank W., assignee: *See*—
Hardwick, Roy W.

Hardwick, Roy W., Freehold, assignor of fifty percent to F. W. Hardwick, Newark, N. J. Door latching mechanism. 2,665,933, Jan. 12.

Hardy, James W., assignor to Goodman Manufacturing Company, Chicago, Ill. Conveyer misalignment signal. 2,665,793, Jan. 12.

Hardy, Raymond W., assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Quick action clamp. 2,665,598, Jan. 12.

Harlin, Varney S., Oklahoma City, Okla. Pipe cleaning tool. 2,665,766, Jan. 12.

Harman, Marion W., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Cyanoalkylammonium salts of pentachlorophenol. 2,666,079, Jan. 12.

Harrington, Gerald D.: *See*—
Shakespeare, Henry G., and Harrington.

Harris, Stanton A., Westfield, and A. N. Wilson, Colonia, assignors to Merck & Co., Inc., Rahway, N. J. Preparing pyridoxal phosphate. 2,666,061, Jan. 12.

Harrison, Homer S., assignor to Allied Steel and Conveyors, Inc., Detroit, Mich. Automatically adjustable tire mounting machine and conveyer. 2,665,747, Jan. 12.

Harrison, Ward, Shaker Heights, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Light directing glass block. 2,665,610, Jan. 12.

Hart, Edward G.: *See*—
Lansing, Charles B., and Hart.

Harvey, Herbert, Los Angeles, Calif., assignor, by mesne assignments, to United States Steel Corporation. Fluid pressure actuated pumping unit. 2,665,550, Jan. 12.

Harvey, Herbert, Los Angeles, Calif., assignor to United States Steel Corporation. Valve operating mechanism. 2,665,709, Jan. 12.

Hasbrouck, Richard B., Waukegan, assignor to Abbott Laboratories, North Chicago, Ill. Ethylenediamine salts of cyclopentanopolyhydrophenanthrene-3-monosulfates. 2,666,066, Jan. 12.

Haskins, Fred J.: *See*—
Enslein, Kurt, and Haskins.

Hasselquist, Victor H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for seaming plastic sheet material. 2,665,737, Jan. 12.

Hathaway, Jarrett L.: *See*—
Hunt, Frederick V., Schuck, Rutherford, Hathaway, and Butz.

Heath, Amos R., Rochester, N. Y. Clothes pole. 2,665,871, Jan. 12.

Heath, William B., New Bedford, assignor to American Optical Company, Southbridge, Mass. Device for stretching and shaping spectacle frames. 2,665,601, Jan. 12.

Hecht, George: *See*—
Cornell, Warren A., Hall, Hecht, Koechling, Korn, and Powell.

Hechter, Oscar: *See*—
Pincus, Gregory, and Hechter.

Hechter, Oscar, Worcester, R. P. Jacobsen, Shrewsbury, R. Jeanloz, H. Levy, and G. Pincus, Worcester, and V. Schenker, Shrewsbury, Mass., and C. W. Marshall, assignors to G. D. Searle & Co., Chicago, Ill. Biochemical processes for the oxygenation of steroids. 2,666,016, Jan. 12.

Hechler, Arthur C., assignor to The Pyle-National Company, Chicago, Ill. Warning light for emergency vehicles. 2,666,194, Jan. 12.

Heidecke, Reinhold, assignor to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate, Braunschweig, Germany. Light baffle structure for photographic cameras. 2,665,618, Jan. 12.

Heim Company, The, assignee: *See*—
Heim, Lewis R.

Heim, Lewis R., assignor to The Heim Company, Fairfield, Conn. Bearing. 2,665,956, Jan. 12.

Heinecke, William, New York, N. Y. Contrasting colors for type matrices. 2,666,002, Jan. 12.

Heller, Milton D.: *See*—
Bernstein, Seymour, Antonucci, and Heller.

Henry, James E., Dayton, Ohio. Aerial mapping. 2,665,481, Jan. 12.

Henslee, Frank W., Pilot Rock, Oreg. Micrometer thread gauge. 2,665,491, Jan. 12.

Herman, Carl L., Canonsburg, assignor to Amsler Morton Corporation, Pittsburgh, Pa. Soaking pit curb wall with fixed elevation. 2,665,895, Jan. 12.

Herzog, Gerhard, and K. C. ten Brink, Houston, Tex., assignors to The Texas Company, New York, N. Y. Testing borehole logging instruments. 2,666,142, Jan. 12.

Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Method and apparatus for bore hole logging. 2,666,146, Jan. 12.

Hess, Howard V.: *See*—
Arnold, George B., Hess, Trultt, and Fitzwilliam.

Hildmann, William B., assignor to Brock & Rankin, Inc., Chicago, Ill. End sheet machine. 2,665,435, Jan. 12.

Hill, James L., assignor to Boeing Airplane Company, Wichita, Kans. Expansible anchor. 2,665,597, Jan. 12.

Hill, Margaret, assignee: *See*—
Butler, Arnold A.

Hillberg, Bror, assignor to Superior Concrete Accessories, Inc., Chicago, Ill. Wire clip for holding in place furring supporting rods. 2,665,578, Jan. 12.

Hindes, Frederic W.: *See*—
Brunner, Ernst, and Hindes.

Hirt, Otto: *See*—
Westinger, Karl, Altenburger, and Hirt.

Hlavac, Ludvik, Astoria, N. Y. Magnetic playing pieces. 2,665,913, Jan. 12.

Hodgson, George H., Tampa, assignor to E. L. Dawson, Rattlesnake, Fla. Convertible swing and rocking crib. 2,665,744, Jan. 12.

Hoffman, Leo, assignor to Hydropress, Incorporated, New York, N. Y. Testing machine clamping device. 2,665,603, Jan. 12.

Hoffmann, Elmer L., Park Ridge, and R. A. Nelson, assignors to Admiral Corporation, Chicago, Ill. Phonograph record changer. 2,665,917, Jan. 12.

Hoffmann, Karl: *See*—
Sury, Ernst, and Hoffmann.

Hoffmann-La Roche Inc., assignee: *See*—
Fox, Herman H.

Hohl, John, Toledo, and A. F. Trendel, Huron, Ohio, assignors to Owens-Illinois Glass Company. Article spraying means and screw-type article-conveying mechanism. 2,665,697, Jan. 12.

Hohnl, Kurt E.: *See*—
Omon, Gene L., and Hohnl.

Holley, Earl, assignee: *See*—
Smitley, Marion L.

Holley, George M., assignee: *See*—
Smitley, Marion L.

Hollway, David L., Gordon, New South Wales, and A. M. Thompson, Mosman, New South Wales, assignors to Commonwealth Scientific and Industrial Research Organization, East Melbourne, Victoria, Australia. Electronic counting device. 2,666,162, Jan. 12.

Holophane Company, Inc., assignee: *See*—
Harrison, Ward.

Holwick, Fred H., Meredosia, Ill. Skirt plate and skirt seal construction for conveyer belts. 2,665,795, Jan. 12.

Home Curtain Corp., assignee: *See*—
Lepow, Edward.

Hooper, Glenn E., Springfield, Mo. Finger mounted eraser. 2,665,666, Jan. 12.

Hopfield, John J., Bethesda, Md. Deformable microleak valve. 2,665,876, Jan. 12.

Horlacher, Herman, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Overarm deflection compensator. 2,665,613, Jan. 12.

Horvay, Julius B.: *See*—
Janos, Alfred G., and Horvay.

Houdaille-Hershey Corporation, assignee: *See*—
Sebok, Joseph B.

Housekeeper, Earl J., R. H. Hunter, and C. J. Braun, Wooster, assignors, by mesne assignments, to The Fyr-Fyter Company, Dayton, Ohio. Control valve for fire hose lines. 2,665,879, Jan. 12.

Houston, Oil Field Material Company, Inc., assignee: *See*—
Claypool, Robbins M., and Best.
Shelton, Leonard L.

Hovey, Frank T., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Making curing bags. 2,666,007, Jan. 12.

Howard, Hartley W., Hastings-on-Hudson, and R. J. Block, Scarsdale, N. Y., and H. E. Sevall, Elgin, Ill., assignors to The Borden Company, New York, N. Y. Milk protein food product and process. 2,665,989, Jan. 12.

Hubbard, Albert B., Caldwell, N. J., assignor to General Electric Company. Fluid cooling system. 2,665,560, Jan. 12.

Huet, André, Paris, France. Heat exchanger. 2,665,889, Jan. 12.

Hughes, John O. P., Rugby, assignor to The English Electric Company Limited, London, England. Splined clutch. 2,665,788, Jan. 12.

Hulsey, James F., Hamlin, Tex. Pressure dissipating manifold for bringing in wells. 2,665,760, Jan. 12.

Hulstede, George E., Belmont, Calif., and J. G. Stephenson, Mineola, N. Y., assignors to the United States of America as represented by the Secretary of War. Tuning plunger for a coaxial line type ultrahigh-frequency circuit. 2,666,185, Jan. 12.

Hummel, Frederick E., Chicago, Ill. Automatic toaster with thermostatic delay means. 2,665,629, Jan. 12.

Hunt, Frederick V., and O. H. Schuck, Belmont, C. R. Rutherford, and J. L. Hathaway, Cambridge, Mass., and A. N. Butz, Jr., Maplewood, N. J. Apparatus for determining the direction of underwater targets. 2,666,192, Jan. 12.

Hunter, Rutherford H.: *See*—
Housekeeper, Earl J., Hunter, and Braun.

Hutchins, Harry P., Audubon, N. J. Simulated baseball game. 2,665,910, Jan. 12.

Hutchinson, Franklin, New Haven, Conn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Tunable magnetron oscillator. 2,666,165, Jan. 12.

Hyams, Willlam, assignor to Mackintosh-Hemphill Company, Pittsburgh, Pa. Thrust bearing. 2,665,959, Jan. 12.

Hydropress, Incorporated, assignee: *See*—
Hoffman, Leo.

Hyman, Sidney, New York, N. Y. Lady's handbag or the like. 2,665,728, Jan. 12.

Hyslop, Mildred T., Del Rio, Tex. Sterilless syringe and an adaptable needle. 2,665,688, Jan. 12.

I. D. Watch Case Co., Inc., assignee: *See*—
Dinstman, Hyman.

Idler, David G., Kirk, Colo. Device for moving field sprinkler systems. 2,665,941, Jan. 12.

Illinois Stamping & Mfg. Co., assignee: *See*—
Palm, George H.

Imperial Chemical Industries Limited, assignee: *See*—
Boon, William R., and Vasey.
Thomson, Robin H. K.

Ingalls Shipbuilding Corporation, The, assignee: *See*—
Williamson, Boyce.
Ingersoll-Rand Company, assignee: *See*—
Ostwald, Richard.
Ingersoll, Ward H.: *See*—
Sullivan, John J., Martell, and Ingersoll.
Ingersoll, Ward H., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Magnetic clutch. 2,665,789, Jan. 12.
Ingrassia, Angelo P., assignor to Masonite Corporation, Laurel, Miss. Reducing-sugar modified aniline-phenol-formaldehyde resins. 2,666,037, Jan. 12.
Injection Molding Company, assignee: *See*—
Barton, Murray M.
Insley, Bert T., San Francisco, Calif., assignor, by mesne assignments, to The Edwin Corporation. Beating device for cleaning dust mops. 2,665,438, Jan. 12.
International Business Machines Corporation, assignee: *See*—
Blakely, Robert T.
Stauss, Karl R.
International Electronics Company, The, assignee: *See*—
Stone, Burnham, E.
International Shoe Company, assignee: *See*—
Diessel, Anton E.
Jaap, Willard E., Cincinnati, Ohio. Combined cup and ash receiver for lighters. 2,665,803, Jan. 12.
Jackson, John G., assignor to Square D Company, Detroit, Mich. Circuit breaker. 2,666,114, Jan. 12.
Jacob, Dorothy, Brooklyn, N. Y. Hanger for dresses and other garments. 2,665,828, Jan. 12.
Jacobsen, Robert P.: *See*—
Hechter, Oscar, Jacobsen, Jeanloz, Levy, Pincus, Schenker, and Marshall.
Jacobson, Abraham W.: *See*—
Blakesley, Clinton A., and Jacobson.
James, William M., Chicago, Ill. Fish lure. 2,665,514, Jan. 12.
Jameson, William, Chicago, Ill. Record storage and player apparatus. 2,665,918, Jan. 12.
Janeway, Robert N., and W. Van Der Sluys, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Brake rigging suspension. 2,665,776, Jan. 12.
Janos, Alfred G., and J. B. Horvay, Erie, Pa., assignors to General Electric Company. Under counter refrigerator. 2,665,564, Jan. 12.
Jauson, Alfons, Ludwigshafen (Rhine-Oppau), assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen, Rhine), Germany. Production of the dizinc salt of hydroxymethane sulfinic acid. 2,666,075, Jan. 12.
Jarvis, John R., Springfield, Ill. Plural electric motor follow-up system. 2,666,169, Jan. 12.
Jeanloz, Roger: *See*—
Hechter, Oscar, Jacobsen, Jeanloz, Levy, Pincus, Schenker, and Marshall.
Jefferson Lake Sulphur Company, assignee: *See*—
Miller, Ernest B.
Jensen, Alfred C.: *See*—
Ross, Budd H., and Jensen.
Joanis, Steve, Windsor, Ontario, Canada. Auxiliary hydraulic brake system. 2,665,777, Jan. 12.
Johansson, Folke C. E., Borlänge, and M. G. G. Tiberg, Hallefors, Sweden, assignors to Elektrokemisk A/S, Oslo, Norway. Mantle for continuous electrodes. 2,666,087, Jan. 12.
Johnson, Arne B., Madison, Wis. Bottle warmer. 2,666,127, Jan. 12.
Johnson, Arthur A., Bridgeport, assignor to The Gore-Lee Corporation, Stratford, Conn. Apparatus and method for manufacture of composite articles. 2,665,451, Jan. 12.
Johnson, Elmer L., assignor to Bell & Howell Company, Chicago, Ill. Automatic sheet feeding mechanism. 2,665,906, Jan. 12.
Johnson, Joseph E., Louisville, Ky., assignor to Baker & Co., Inc., Newark, N. J. Orthodontic device. 2,665,480, Jan. 12.
Johnson, Kermit F.: *See*—
La Mere, Frank J., Johnson, and Winzen.
Johnson, Paul H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Hydrocarbon process for reducing the pour point of a topped crude oil. 2,666,022, Jan. 12.
Johnson, Wallace J. S., Berkeley, Calif. Portable scaffold unit. 2,665,950, Jan. 12.
Johnston, Mordica O.: *See*—
O'Neill, Frank E., and Johnston.
Johnston, Mordica O., Glendale, and H. C. Skipper, Montrose, Calif., assignors, by mesne assignments, to Johnston Testers, Inc., Houston, Tex. Adjustable flow beam. 2,665,758, Jan. 12.
Johnston Testers, Inc., assignee: *See*
Johnston, Mordica O., and Skipper.
O'Neill, Frank E., and Johnston.
Johnston, Virgil A., Fulton, Mo. Attachment for printing slug-casting machines. 2,665,800, Jan. 12.
Jones, Alexander H., Jackson, Miss. Building ventilator. 2,665,626, Jan. 12.
Jones, Alfred L., Fresno, Calif. Hair drier. 2,665,501, Jan. 12.
Jones, Grover, Arkansas City, Ark. Automatic livestock sprayer. 2,665,665, Jan. 12.
Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,665,436, Jan. 12.
Joy Manufacturing Company, assignee: *See*—
Ball, Charles F.
Junghans, Siegfried, assignee: *See*
Schaaber, Otto.
Jungmayr, Theodor, Stuttgart, Germany. Manufacturing boxes. 2,665,616, Jan. 12.
Junod, Samuel, Geneva, Switzerland. Toy vehicle. 2,665,522, Jan. 12.
Juran, Mary P., Youngstown, Ohio. Magnetic game board with magnetized spherical game pieces. 2,665,912, Jan. 12.
Jurich, Murriel V., Alhambra, Calif. Detachable shoulder pad. 2,665,429, Jan. 12.
Kahn, Leonard R., New York, N. Y., assignor to Radio Corporation of America. Single sideband transmitter. 2,666,133, Jan. 12.
Kalousek, George L., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Hydrous calcium silicates and preparation. 2,665,996, Jan. 12.
Kals, Walter, assignor to Niagara Blower Company, New York, N. Y. Vacuum concentrator. 2,665,750, Jan. 12.
Kanach, John A., Cleveland, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill. Constant speed flow control valve. 2,665,704, Jan. 12.
Kaplan, Martin N., Beloit, Wis. Electromagnetic transmission. 2,666,155, Jan. 12.
Kasak, Antonin, and A. Wesstrom, assignors to Bendix Aviation Corporation, South Bend, Ind. Grinding machine. 2,665,529, Jan. 12.
Kaufman, Manuel, Fresno, Calif. Traction device. 2,665,685, Jan. 12.
Kawa, Samuel, Philadelphia, Pa. Article crushing apparatus. 2,665,632, Jan. 12.
Kean, Clare H., Houston, Tex. Dynamic displacement meter. 2,665,581, Jan. 12.
Keeble, John: *See*—
Everitt, Philip F., and Keeble.
Keegan, Frank X., assignor to The Pyle-National Company, Chicago, Ill. Self-aligning dual purpose warning head light apparatus. 2,666,193, Jan. 12.
Keener, Donald G., Agnew, Calif. Tail stock indicator holder. 2,665,493, Jan. 12.
Keizer, Eugene O., Princeton, N. J., assignor to Radio Corporation of America. Frequency control apparatus. 2,666,182, Jan. 12.
Kellogg, M. W., Company, The, assignee: *See*
McGrath, Henry G.
Kelsey, Rayner L.: *See*—
Foerstel, Edmund C., and Kelsey.
Kelvin & Hughes Limited, assignee: *See*
Everitt, Philip F., and Keeble.
Kemper, James M., Hollywood, assignor to The Garrett Corporation, Los Angeles, Calif. Isobaric override control. 2,665,623, Jan. 12.
Kent, Moss A., White Plains, N. Y. Tire chain applying clamp. 2,665,602, Jan. 12.
Kenyon Instrument Company, Inc., assignee: *See*—
Tuttle, Clifton M., and Brown.
Kershaw, Royce, Montgomery, Ala. Ballast plow and distributor. 2,665,506, Jan. 12.
Ketcham, Lyman G., Summit, assignor to Automatic Manufacturing Corporation, Newark, N. J. Variable inductance. 2,666,187, Jan. 12.
Keuffel & Esser Company, assignee: *See*—
Sils, Oskar.
King, Ralph E., and H. H. Bixler, Erie, Pa., assignors to General Electric Company. Evaporator defrosting arrangement. 2,665,567, Jan. 12.
King, Rollin W., Berkeley, and E. Berlant, Culver City, Calif., assignors, by mesne assignments, to Graflex Inc., Rochester, N. Y. Roll-film camera incorporating a rotatable back. 2,665,620, Jan. 12.
Kinsley, Thomas G., Plainfield, and W. P. Mason, West Orange, N. J., assignors to Bell Telephone Laboratories Incorporated, New York, N. Y. Frequency station calling system using bifurcated piezoelectric elements. 2,666,196, Jan. 12.
Kirby, Frank J., and W. E. Vore, Inyokern, China Lake, Calif. Variable resistance acceleration sensitive device. 2,665,896, Jan. 12.
Klatte, Theodor, assignee: *See*—
Nibbling, Otto.
Klein, Norman E., Garden City, N. Y. Planetary movement. 2,666,188, Jan. 12.
Knauss, Harold P., Belmont, Mass. Underwater sound detecting and indicating system. 2,666,191, Jan. 12.
Knight, Horace S.: *See*—
Detling, Kenneth D., Knight, and Williamson.
Knight, Stanley G., assignor to Wisconsin Alumni Research Foundation, Madison, Wis. Cheese and preparing the same. 2,665,990, Jan. 12.
Knutson, Harold, and H. G., Chicago, Ill. Smoke-jack for diesel locomotives. 2,665,647, Jan. 12.
Knutson, Harold G.: *See*—
Knutson, Harold, and H. G.
Koch, George J., Jr., Palmesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Chromate-sulfite redox-initiated aqueous polymerization of vinyl chloride. 2,666,047, Jan. 12.
Kochs, Robert E.: *See*—
De Quasie, Lacey G., and Kochs.
Koechling, Charles D.: *See*—
Cornell, Warren A., Hall, Hecht, Koechling, Korn, and Powell.

Koehring, Roland P., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Impregnation. 2,665,999, Jan. 12.
Koester, Melvin C., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Shipping container for glass sheets. 2,665,804, Jan. 12.
Koppelmann, Floris, Berlin-Reinickendorf, assignor to Licentia Patent-Verwaltungs- G. m. b. H., Berlin, Germany. Mechanical rectifier. 2,666,102, Jan. 12.
Korn, Franklin A.: *See*—
Cornell, Warren A., Hall, Hecht, Koechling, Korn, and Powell
Krämer, Werner, Frondenberg-Ruhr, assignor to Licentia Patent-Verwaltungs- G. m. b. H., Hamburg, Germany. Frequency multiplier. 2,666,178, Jan. 12.
Krenov, Boris A., Seattle, Wash. Bathroom unit. 2,665,454, Jan. 12.
Krieger, Gardner L., Princeton, N. J., assignor to Radio Corporation of America. Electronic transducer tube. 2,666,200, Jan. 12.
Kuhnke, Hellmuth, Malente-Gremsmühlen, Germany. Electric contact device, preferably for relays. 2,666,113, Jan. 12.
Kuhrt, Noel H., assignor to Eastman Kodak Company, Rochester, N. Y. Stabilizing fats and oils and compositions obtained thereby. 2,665,991, Jan. 12
Kusiv, James J.: *See*
Macy, James C., and Kusiv.
Laager, Kaspar: *See*
Siegenthaler, Walter, and Laager.
La Belle Industries, Inc., assignee: *See*—
Birbaum, Lester W.
Lacy, Kenneth B., assignor to Lighting Products, Inc., Highland Park, Ill. Lighting louver. 2,665,784, Jan. 12.
Lakatos, Robert J., Detroit, Mich. Card holder. 2,665,916, Jan. 12.
La Mere, Frank J., K. F. Johnson, and O. C. Winzen, Minneapolis, Minn., assignors to General Mills, Inc. Balloon construction. 2,666,006, Jan. 12.
Lang, Albert, Oakland, Calif. Screen holding strip securing means. 2,665,753, Jan. 12.
Lausing, Charles B., and E. G. Hart, assignors to The Arco Company, Cleveland, Ohio. Instantaneous coating material heating unit. 2,665,944, Jan. 12.
Larson, Kenneth R.: *See*
Brown, George R., and Larson.
Latapie, Marcel: *See*
Génini, Victor, and Latapie.
Lauck, John A., Shaker Heights, and J. A. Compton, South Euclid, Ohio, assignors to Borg-Warner Corporation, Chicago, Ill. Reversible gear pump. 2,665,636, Jan. 12.
Lauck, John A., Shaker Heights, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill. Gear pump. 2,665,638, Jan. 12.
Lauck, John A., South Euclid, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill. Pumping system. 2,665,637, Jan. 12.
Lauck, John A., Shaker Heights, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill. Pump, pressure loaded, with differential valve. 2,665,641, Jan. 12.
Leary, Robert F.: *See*
Nelson, Joseph F., Leary, and Welch.
Lee, Webster R., La Mesa, assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Closure seal. 2,665,459, Jan. 12.
Leeds and Northrup Company, assignee: *See*
Davis, Elwood T.
Williams, Albert J., Jr., and Watson.
Leeds, Winthrop M.: *See*
Ludwig, Leon R., Leeds, Baker, and Cumming.
Leeds, Winthrop M., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Compressed gas circuit interrupter. 2,666,107, Jan. 12.
Leeds, Winthrop M., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,666,117, Jan. 12.
Lehmann, Herbert G., assignor to Casco Products Corporation, Bridgeport, Conn. Automatic-manual window operator. 2,665,904, Jan. 12.
Lelherman, Lee, assignee: *See*
Wallack, Sanford.
Leonard, John L., La Mesa, Calif. Vacuum tube amplifier for measuring signals having a large variation in level. 2,666,098, Jan. 12.
Leonard, Leo W., Santa Barbara, Calif. Hair trimmer device. 2,665,476, Jan. 12.
Lepow, Edward, assignor to Home Curtain Corp., Far Rockaway, N. Y. Scalloping device. 2,665,650, Jan. 12.
L'Esperance, Francis A., Northampton, Mass. Suturing forceps. 2,665,692, Jan. 12.
Le Tourneau, Frank P., and H. E. Peterson, Duluth, Minn. Making combined line and halftone negatives. 2,665,984, Jan. 12.
Levin, Robert H.: *See*
Hanze, Arthur R., and Levin.
Levy, Harold: *See*
Hechter, Oscar, Jacobsen, Jeanloz, Levy, Pincus, Schenker, and Marshall.
Lewis, Walter C., Dallas, Tex. Mechanic hand level. 2,665,485, Jan. 12.
Lewis, Warren K., Newton, and E. R. Gilliland, Arlington, Mass., assignors to Standard Oil Development Company. Production of pure carbon dioxide. 2,665,971, Jan. 12.
Lewis, Warren K., Newton, and E. R. Gilliland, Arlington, Mass., assignors to Standard Oil Development Company. Production of pure carbon dioxide. 2,665,972, Jan. 12.
Leypoldt, Harry R., and A. T. Stoddart, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for advancing material. 2,665,797, Jan. 12.
Libbey-Owens-Ford Glass Company, assignee: *See*
Koester, Melvin C.
Ogle, James C., Jr.
Licentia Patent-Verwaltungs- G. m. b. H., assignee: *See*—
Koppelmann, Floris.
Krämer, Werner.
Lietaert, Harold E.: *See*
Meyer, Robert R., and Lietaert.
Liff, Charles P., assignee: *See*—
Lurie, Oscar M.
Lighting Products, Inc., assignee: *See*—
Lacy, Kenneth B.
Liljestrand, Walter E.: *See*
Garrett, William R., Liljestrand, and Young.
Lilly, Eli, and Company, assignee: *See*—
Doran, Wilbur J.
Lincoln, Arnold J., Florham Park, assignor to Baker & Co., Inc., Newark, N. J. Bonding resistors in electric furnaces. 2,666,088, Jan. 12.
Lindqvist, Curt A. J., assignor, by mesne assignments, to Aktiebolaget Cellophast, Norrköping, Sweden. Method and apparatus for continuous production of absorbing material. 2,665,450 Jan. 12.
Llongueras Torras, Miguel, Barcelona, Spain. Automatically working electromechanical apparatus for the reduction of vertebral luxations and subluxations. 2,665,684, Jan. 12.
Löbl, Arnold, Vienna, Austria. Closure construction for wall openings. 2,665,782, Jan. 12.
Lochead, Harold N., Ottawa, Ontario, Canada. Egg holder. 2,665,571, Jan. 12
Lockhart, Harold A., Des Plaines, assignor to Bell & Gossett Company, Morton Grove, Ill. Centrifugal pump. 2,665,640, Jan. 12.
Lockhart, Marshall L., assignor to The Compule Corporation, Rutherford, N. J. Plural-compartment admixing container or vial. 2,665,690, Jan. 12.
Lorant, Lionel, Long Island City, N. Y., assignor to Super Electric Products Corp., Jersey City, N. J. Manufacture and construction of electrical coils. 2,666,168, Jan. 12.
Lorig, Edwin T., Ross Township, Allegheny County, Pa., assignor to United States Steel Corporation. Apparatus for automatically centering moving endless belts. 2,665,592, Jan. 12.
Lovejoy Products, Inc., assignee: *See*
Lovejoy, Tyler K.
Lovejoy, Tyler K., assignor to Lovejoy Products, Inc., Hastings, Minn. Door check and closer. 2,665,447. Jan. 12.
Lo Vico, Salvatore A., Astoria, N. Y. Cover having means for removably attaching same. 2,665,745, Jan. 12.
Low, Frank D., La Grange Park, Ill., assignor to General Electric Company. Liquid inlet and antiback-siphoning. 2,665,700, Jan. 12
Low, Frank S., Rowayton, Conn., and C. P. Roberts, South Charleston, W. Va., assignors to Food Machinery and Chemical Corporation, New York, N. Y. Oxidation and chlorine recovery process. 2,666,024, Jan. 12.
Ludwig, Leon R., Snyder, N. Y., W. M. Leeds, Pittsburgh, B. P. Baker, Turtle Creek, and J. M. Cumming, deceased (by H. J. Cumming, executrix), Monroeville, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,666,118, Jan. 12.
Lufkin Rule Company, The, assignee: *See*—
Zelnick, Charles.
Lundell, Arnold W., Byram, assignor to Globe Slicing Machine Co., Inc., Stamford, Conn. Refrigerated meat chopper. 2,665,724, Jan. 12.
Lundell, Arnold W., Byram, assignor to Globe Slicing Machine Co., Inc., Stamford, Conn. Food chopper. 2,665,725, Jan. 12.
Lundell, Arnold W., Byram, assignor to Globe Slicing Machine Co., Inc., Stamford, Conn. Guide for slicing machines. 2,665,726, Jan. 12.
Lurie, Oscar M., Bethesda, assignor to C. P. Liff, Chevy Chase, Md. Adjustable antiglare shield. 2,665,939, Jan. 12
Lyon, George A., Detroit Mich. Feed mechanism and control for continuous stock material. 2,665,654. Jan. 12.
Lyon, George A., Detroit, Mich. Continuous web feeding mechanism. 2,665,905, Jan. 12.
Lyon, George A., Detroit, Mich. Wheel cover. 2,665,947. Jan. 12.
Lyon, George A., Detroit, Mich. Wheel cover. 2,665,948. Jan. 12.
MacCallum, Alan M., Plainfield, and C. M. Perkins, Sr., Rutherford, assignors to Bendix Aviation Corporation, Teterboro, N. J. Automatic pilot for mobile craft. 2,665,861, Jan. 12

MacCready, Paul B., Jr., Pasadena, Calif. Robot cloud seeding generator. 2,665,940, Jan. 12.

MacGregor, David, assignor to Edward Valves, Inc., East Chicago, Ind. Bonnet and sealing structure for valves. 2,665,874, Jan. 12.

MacGregor, David, Munster, assignor to Edward Valves Incorporated, East Chicago, Ind. Valve construction. 2,665,875, Jan. 12.

MacGregor, David, Munster, assignor to Edward Valves Incorporated, East Chicago, Ind. Pressure sealed valve. 2,665,877, Jan. 12.

Mackintosh-Hemphill Company, assignee: *See*—
Hyams, William.

Macy, James C., Westfield, and J. J. Kusiv, Newark, N. J., assignors, by mesne assignments, to Universal Winding Company, Providence, R. I. Lacing apparatus. 2,665,652, Jan. 12.

Magna Engineering Corporation, assignee: *See*—
Edgemond, John W., Jr.

Mahoney, Richard W., Elizabeth, assignor to Merck & Co., Inc., Rahway, N. J. Adjustable spout and cap device for the sealing and dropwise dispensing of fluids. 2,665,826, Jan. 12.

Marcell, Thaddeus R., and C. E. Porter, Cranford, and J. H. Staib, Scotch Plains, N. J. Automatic sample cutter. 2,665,585, Jan. 12.

Marcouiller, Ernest J., New York, N. Y. Camera for taking photographs of body cavities. 2,665,617, Jan. 12.

Maroney, Clair F., D. I. Weisz, and R. W. McGrew, assignors to Beaver Art Metal Corporation, Ellwood City, Pa. Knockdown scaffold having safety lock. 2,665,953, Jan. 12.

Marquaire, Charles, La Tronche, assignor to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine, Paris, France. Metallic powders. 2,665,981, Jan. 12.

Marshall, Charles W.: *See*
Hechter, Oscar, Jacobsen, Jeanloz, Levy, Pincus, Schenker, and Marshall.

Marshall, William A., assignor to The Pure Oil Company, Chicago, Ill. Chemical method for removing residual sand from metal castings formed in sand-type molds. 2,666,001, Jan. 12.

Martell, Lester H.: *See*—
Sullivan, John J., Martell, and Ingersoll.

Martin, Emmet L., Chicago, Ill., and H. H. Agee, Omaha, Nebr. Electric storage battery for use in extreme climates. 2,666,091, Jan. 12.

Martin, Raymond F., Fairborn, Ohio. Deicer boot applying tool. 2,665,884, Jan. 12.

Martino, William, Westbury, N. Y. Toothbrush with refillable dentifrice dispenser. 2,665,442, Jan. 12.

Martinsson, Gunnar R. C., Chicago, Ill. Hydraulic mechanism. 2,665,555, Jan. 12.

Maschinenfabrik Andritz Aktiengesellschaft, assignee: *See*
Pirkner, Ignaz.

Maschinenfabrik Augsburg-Nurnberg A. G., assignee: *See*—
Schörner, Christian.

Maschinenfabrik Scharer, assignee: *See*—
Siegenthaler, Walter, and Laager.

Mason, Warren P.: *See*
Kinsley, Thomas G., and Mason.

Masonite Corporation, assignee: *See*
Ingrassia, Angelo P.

Mastrella, Angelo J., Rochester, N. Y. Gauge line holder. 2,665,487, Jan. 12.

Mathieson Chemical Corporation, assignee: *See*—
Churchill, John W.
Morningstar, Ralph E., and Whipple.

Matzke, Josef, assignor to Osterreichische Stickstoffwerke Aktiengesellschaft, Linz (Donau), Austria. Manufacture of N²-acylated aminoarylsulfonamides. 2,666,073, Jan. 12.

Maxwell, Donald E., New Canaan, Conn., assignor to General Electric Company. Transient analyzing system. 2,666,179, Jan. 12.

McAlister, David S., Charleston, S. C. Inventory and storage box for amusement tickets. 2,665,808, Jan. 12.

McConnell, Roland G., Portland, assignor to Sebago-Moc Shoe Company, Westbrook, Maine. Flexible welt shoe with staggered lock-stitching. 2,665,504, Jan. 12.

McCoy, Robert H., Salt Lake City, Utah. Compound leverage metal-cutting shears. 2,665,735, Jan. 12.

McCrossen, William G., West Allis, Wis. Demountable truck body. 2,665,938, Jan. 12.

McDonald, John B., Palos Verdes, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Line binder. 2,665,867, Jan. 12.

McGarry, James W., Cincinnati, and B. W. Wickemeier, Hamilton County, assignors to Railroad Products Company, Cincinnati, Ohio. Water service device. 2,665,710, Jan. 12.

McGrath, Henry G., Elizabeth, assignor to The M. W. Kellogg Company, Jersey City, N. J. Hydrogenation of carbon monoxide. 2,666,077, Jan. 12.

McGrew, Ralph W.: *See*—
Maroney, Clair F., Weisz, and McGrew.

McHenry, Harland L., Sayre, Pa., and L. C. Parker, Elmira, assignors to Bendix Aviation Corporation, Elmira Heights, N. Y. Reciprocatory electric motor. 2,666,153, Jan. 12.

McMaster, Robert C.: *See*—
Schaffert, Roland M., McMaster, and Bixby.

McMeen, J. Allen, assignee: *See*—
Smith, Rulo W.

Menozzi, Giuseppe, and V. and B. Ricca, Messina, Italy. Apparatus for signaling the escape of illuminating gas and other similar combustible gases. 2,666,105, Jan. 12.

Merck & Co., Inc., assignee: *See*—
Harris, Stanton A., and Wilson.
Mahoney, Richard W.

Mesner, Max H.: *See*—
Rajchman, Jan A., Mesner, and Rosenberg.

Metsger, Charles S., Saddle River Township, Bergen County, and S. Gilbert, Cedar Grove, assignors to Bendix Aviation Corporation, Teterboro, N. J. Jaw meshing device. 2,665,674, Jan. 12.

Meyer, Robert R., and H. E. Lietaert, assignors to Monroe Auto Equipment Company, Monroe, Mich. Method of and apparatus for cooling and drying rubber. 2,665,568, Jan. 12.

Michigan Powdered Metal Products Company, assignee: *See*—
Causley, Arthur L.

Michlin, Sam, Brooklyn, N. Y. Plaiting machine. 2,665,827, Jan. 12.

Midgley, Eric L., Salem, and C. A. Young, Gloucester, assignors to Sylvania Electric Products Inc., Salem, Mass. Article transfer apparatus. 2,665,831, Jan. 12.

Miller, Edith J. B., assignor to Desarco Corporation, Chicago, Ill. Color harmony selection system. 2,665,503, Jan. 12.

Miller, Ernest B., Houston, Tex., assignor to Jefferson Lake Sulphur Company, New Orleans, La. Apparatus for the recovery of elemental sulfur in liquid form from gases containing hydrogen sulfide. 2,665,974, Jan. 12.

Milson, Daniel, Maplewood, La., assignor to Cities Service Research and Development Company, New York, N. Y. Stabilization of mineral oil fractions. 2,666,021, Jan. 12.

Mine Safety Appliances Company, assignee: *See*—
Green, Daniel A., and Deike.

Mingione, Carl, Detroit, Mich. Carbon indicator for film projectors. 2,665,494, Jan. 12.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Eheltoft, William H.
Ingersoll, Ward H.

Mishelevich, Benjamin, Pittsburgh, Pa., assignor to Westinghouse Air Brake Company. Supplementary apparatus for railway signaling systems. 2,666,131, Jan. 12.

Mission Manufacturing Company, assignee: *See*—
Garrett, William R., Liljestrand, and Young.

Mitchell, Burritt B., assignor to Chisholm-Ryder Co., Inc., Niagara Falls, N. Y. Preassembled marker and preassembling the same. 2,665,510, Jan. 12.

Mitchell, Edward C., San Diego, Calif. Electric plumb bob. 2,665,498, Jan. 12.

Mobley, Edward L., Jr., Akron, assignor to The Sun Rubber Company, Barberton, Ohio. Combined smoke simulating and popgun. 2,665,676, Jan. 12.

Moler, Charles C., assignor to Overhead Door Corporation, Hartford City, Ind. Lockable latch structure for vertically slidable doors. 2,665,932, Jan. 12.

Mollenhour, Delbert C., assignor to Frank Manufacturing Company, Inc., Mentone, Ind. Gearless drive for speed and distance recording instruments. 2,665,897, Jan. 12.

Moloney, Raymond T., assignee: *See*—
Nicolaus, Frank G.

Monroe Auto Equipment Company, assignee: *See*—
Meyer, Robert R., and Lietaert.

Monsanto Chemical Company, assignee: *See*—
Harman, Marion W.
Moss, Henry V., and Morse.

Mooers, Calvin N. and C. D., assignors, by mesne assignments, to C. N. Mooers, Cambridge, Mass. Card selecting device. 2,665,694, Jan. 12.

Mooers, Charlotte D.: *See*—
Mooers, Calvin N. and C. D.

Moon, Charles R., Muncie, Ind. Hydraulic transmission. 2,665,595, Jan. 12.

Mooney, Melvin, Mountain Lakes, N. J., assignor to United States Rubber Company, New York, N. Y. Preloaded rubber mounting. 2,665,864, Jan. 12.

Moore, Walter G., West Palm Beach, Fla. Beer can handle. 2,665,936, Jan. 12.

Moos, Louis H.: *See*—
Battles, Stewart S., and Moos.

More, Philip J., Chicago, Ill., assignor to Birtman Electric Company. Motor-driven polisher having upper and lower casing sections. 2,665,439, Jan. 12.

Morel, Maurice E., Sceaux, assignor to Societe Francaise des Munitions de Chasse, de Tir et de Guerre, S. A., Issy-les-Moulineaux, France. Wad. 2,665,635, Jan. 12.

Morgan, Clarence A., Albany, Calif. Hinged member restraining means. 2,665,466, Jan. 12.

Morningstar, Ralph E., Columbus, Ohio, and G. H. Whipple, Wilmington, Del., assignors to Mathieson Chemical Corporation. Producing finely ground sulfur of noncaking character. 2,665,973, Jan. 12.

Morse, Roy E.: *See*—
Moss, Henry V., and Morse.

Morton, Evans T., assignor to Admiral Corporation, Chicago, Ill. Refrigerator door. 2,665,456, Jan. 12.

Moss, Henry V., and R. E. Morse, Anniston, Ala., assignors to Monsanto Chemical Company, St. Louis, Mo. Nutrient media containing antifoaming agents. 2,666,017, Jan. 12.

Motor Products Corporation, assignee: *See*—
Whitmore, Harland W.

Moyer, Frederick D., and J. L. Scholbe, Chicago, Ill., assignors to Chicago Bridge & Iron Company. Seal hanger. 2,665,819, Jan. 12.

Mueller, Emil G., Churchill Borough, assignor to The American Brake Company, Swissvale, Pa. Brake mechanism. 2,665,778, Jan. 12.

Murray, Herbert C., and D. H. Peterson, assignors to The Upjohn Company, Kalamazoo, Mich. 11α-hydroxyprogesterone and esters thereof. 2,666,070, Jan. 12.

Murray, Herbert C., Hickory Corners, and D. H. Peterson, assignors to The Upjohn Company, Kalamazoo, Mich. 11α-hydroxy-17α-progesterone and esters thereof. 2,666,071, Jan. 12.

Musik-Haus "Wohlrab" G. m. b. H., assignee: *See*—
Wohlrab, Curt, Jr.

Muther, Adolf, Zurich, Switzerland. Parachute with delayed landing-speed. 2,665,863, Jan. 12.

Naps, Marguerite, Oakland, Calif. Sealing coffee beans. 2,665,992, Jan. 12.

National Cylinder Gas Company, assignee: *See*—
Ellsworth, Carl E.

National Research Council, assignee: *See*—
Halpern, Jack, and Forward.

National Tank Company, assignee: *See*—
Walker, Jay P., and Glasgow.

Neher, Robert, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Undecylenic acid esters of 8-hydroxyquinolines. 2,666,058, Jan. 12.

Nelson, Clarence L., Minneapolis, Minn. Magnetically controlled switch. 2,666,112, Jan. 12.

Nelson, Joseph F., Rahway, R. F. Leary, Cranford, and L. M. Welch, Madison, N. J., assignors to Standard Oil Development Company. Copolymer manufacture. 2,666,046, Jan. 12.

Nelson, Norman A., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Device for wiping pipe. 2,665,444, Jan. 12.

Nelson, Richard A.: *See*—
Hoffmann, Elmer L., and Nelson.

Nepera Chemical Co. Inc., assignee: *See*—
Scudi, John V., and Tenenbaum.

Neu, Ernest L.: *See*—
Bolhert, Armand R., and Neu.

Newcomb, Philip P., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Compressor drive and fuel supply for gas turbine power plants. 2,665,549, Jan. 12.

Ng, Thomas, Union, N. J., assignor to Standard Oil Development Company. Apparatus for countercurrent contact of fluid materials. 2,665,975, Jan. 12.

Niagara Blower Company, assignee: *See*—
Kals, Walter.

Nicholson, George B., Jr., Fulton, N. Y. assignor to The Black-Clawson Company, Hamilton, Ohio. Toothed cutting impeller for pulping solid materials in liquid suspension. 2,665,853, Jan. 12.

Nicolaus, Frank G., assignor to R. T. Moloney, Chicago, Ill. Permutation and combination control circuit. 2,665,914, Jan. 12.

Nieman, Henry W.: *See*—
Dougherty, Robert S. A., Chamberlain, and Nieman.

Niks, Nicholas J., Munising, Mich. Apparatus for manufacture of paper. 2,665,615, Jan. 12.

Noall, John, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Brake block cutter. 2,665,527, Jan. 12.

Nordstrom, Gustaf E., assignor to American Fibre Corporation, Gardner, Mass. Machine for making cord from twisted web material. 2,665,541, Jan. 12.

Norehad, Onnig M., Chicago, Ill. Packing cords, especially adapted to function as a sealing gasket for drums, pails, and barrels, in which lard and other shortenings are confined for shipment. 2,666,005, Jan. 12.

North American Geophysical Co., assignee: *See*—
Cloud, Raymond T.

Northrop Aircraft, Inc., assignee: *See*—
Clark, Walter M.
Grill, Raymond E.
McDonald, John B.

Nozaki, Kenzie, Richmond, assignor to Shell Development Company, San Francisco, Calif. Polymerizing vinyl-type compounds by irradiation. 2,666,025, Jan. 12.

Nozaki, Kenzie, El Cerrito, assignor to Shell Development Company, Emeryville, Calif. Preparing segmented copolymers. 2,666,042, Jan. 12.

Nübling, Otto, Berlin-Frohnau, assignor to T. Klatte, Bremen-Huchting, Germany. Device for producing internally toothed ring gears and the like. 2,665,612, Jan. 12.

Nutone, Inc., assignee: *See*—
Rowe, Harry C., and Bladh.

O'Brien, Brian: *See*—
Eversole, William G., O'Brien, and Gillette.

Ocnaschek, Frank J., Dallas, Tex., assignor to Collins Radio Company, Cedar Rapids, Iowa. Variable attenuator. 2,666,183, Jan. 12.

Odin Corporation, assignee: *See*—
Svenson, Ernest J.

Ogle, James C., Jr., Tarentum, Pa., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for coating by thermal vaporization. 2,665,659, Jan. 12.

Ognanovich, John, Fort Snelling, Minn. Surgical apparatus for measuring and regulating vacuum pressures. 2,665,691, Jan. 12.

Öhlund, Selfrid G., Enskede, Sweden. Electric lamp with current bridge. 2,666,166, Jan. 12.

Olah, George, London, and H. A. Smith, Charlton, London, assignors to Elliott Brothers (London) Limited, London, England. Recording instrument. 2,665,964, Jan. 12.

Olden, Roger G., Princeton, N. J., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Device for applying liquid to sheets or webs. 2,665,660, Jan. 12.

Olympia Werke West G. m. b. H., assignee: *See*—
Westinger, Karl, Altenburger, and Hirt.

Omon, Gene L., and K. E. Hohnl, assignors to J. I. Case Company, Racine, Wis. Coupling. 2,665,928, Jan. 12.

O'Neill, Frank E., Los Angeles, and M. O. Johnston, Glendale, Calif., assignors, by mesne assignments, to Johnston Testers, Inc., Houston, Tex. Back scuttling valve. 2,665,761, Jan. 12.

Osmun, Dean W., Houston, Tex. Line lubricator. 2,665,773, Jan. 12.

Osterreichische Stickstoffwerke Aktiengesellschaft, assignee: *See*—
Matzke, Josef.

Ostwald, Richard, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Pressure booster regulator. 2,665,839, Jan. 12.

Otten, Philip S., New Rochelle, assignor to The Griscom Russell Company, New York, N. Y. Insulated bayonet tube vaporizer. 2,665,556, Jan. 12.

Overhead Door Corporation, assignee: *See*—
Moler, Charles C.

Owens-Illinois Glass Company, assignee: *See*—
Hohl, John, and Trendel.
Kalousek, George L.

Pacific Can Company, assignee: *See*—
Colvin, William I.

Package Machinery Company, assignee: *See*—
Rawson, Emanuel.

Pallet Devices, Inc., assignee: *See*—
Budd, Larry J.

Palm, George H., assignor to Illinois Stampling & Mfg. Co., Chicago, Ill. Sprayer construction. 2,665,943, Jan. 12.

Panoramic Laboratories, assignee: *See*—
Wallace, Marcel.

Papadakos, Peter J., Brooklyn, assignor to Gyrodyne Company of America, Inc., New York, N. Y. Aircraft with rotary and fixed wings. 2,665,859, Jan. 12.

Parker, Leland C.: *See*—
McHenry, Harland L., and Parker.

Parkes, Ralph C., Glenside, Pa. Insulated pole. 2,665,502, Jan. 12.

Parkinson, Morris D., Rexburg, Idaho. Tractor cab with closure curtains. 2,665,751, Jan. 12.

Parks, Asbury S., Houston, Tex. Separator. 2,665,565, Jan. 12.

Parks, Asbury S., Houston, Tex. Fluid motor valve. 2,665,711, Jan. 12.

Paterno, Fondazione E.: *See*
Bucci, Felice.

Patterson, Edgar W., Downey, Calif. Piston lubricating means. 2,665,774, Jan. 12.

Patterson, Edgar W., Downey, Calif. Lubricating system for units operated by compressed air. 2,665,901, Jan. 12.

Patterson, William, Merion, Pa. Door fastener. 2,665,935, Jan. 12.

Paul, Talbert W., assignor to Deere & Company, Moline, Ill. Crop-handling machine and drive mechanism therefor. 2,665,631, Jan. 12.

Pecora, Pasquo P., assignor to Pecora's Farm Dairy, West Hazleton, Pa. Infant teething and feeding device. 2,665,693, Jan. 12.

Pecora's Farm Dairy, assignee: *See*
Pecora, Pasquo P.

Pedigo, Arthur J., Richmond, Va. Refrigerator construction having air and water vapor circulating means. 2,665,562, Jan. 12.

Pelton, John F., Kenmore, N. Y., assignor to Union Carbide and Carbon Corporation. Automatic grinding machine. 2,665,526, Jan. 12.

Pendleton, Pyam L., Cranston, assignor of one-half to R. R. Sturges, Providence, R. I. Strand treating apparatus. 2,665,699, Jan. 12.

Penick, S. B., & Company, Incorporated, assignee: *See*—
Starr, Donald F., and Haber.

Pennanen, Matt, Herman, Mich. Anchoring device for portable chain sawing machine blades. 2,665,719, Jan. 12.

Pennsylvania Railroad Company, The, assignee: *See*—
Reigh, Clarence J.

Perkins, Corles M., Sr.: *See*—
MacCallum, Alan M., and Perkins.

Perry, Paul L., Philadelphia, Pa. Retractable trailer hitch. 2,665,923, Jan. 12.

Pestarini, Joseph M., Staten Island, N. Y. Synchronous motor. 2,666,174, Jan. 12.

Peterson, Carl O.: *See*—
Spindler, Norman J., and Peterson.

Peterson, Darcy H.: *See*—
Murray, Herbert C., and Peterson.

Peterson, Henning E.: *See*—
Le Tourneau, Frank P., and Peterson.

Petroff, Merlin, Round Lake, assignor to Stewart-Warner Corporation, Chicago, Ill. Electrical indicator. 2,666,180, Jan. 12.

Pfeifer, Charles W., Troy, N. Y., assignor to General Electric Company. Reclaimed silicone rubber. 2,666,035, Jan. 12.

Pfeifer, Charles W., Troy, N. Y., assignor to General Electric Company. Silicone rubbers with improved compression set. 2,666,041, Jan. 12.

Phillips, Edwin N.: *See*—
Williams, Winston F., and Phillips.

Phillips Petroleum Company, assignee: *See*—
Johnson, Paul H.
Pitzer, Emory W.

Pierce, Ernest P., South Gate, Calif. Tool adapter for lathes. 2,665,605, Jan. 12.

Pincus, Gregory: *See*—
Hechter, Oscar, Jacobsen, Jeanloz, Levy, Pincus, Schenker, and Marshall.

Pincus, Gregory, and O. Hechter, Worcester, Mass., assignors to G. D. Searle & Co., Chicago, Ill. Biochemical processes for the 11-hydroxylation of steroids. 2,666,015, Jan. 12.

Pirkner, Ignaz, assignor of one-half to Maschinenfabrik Andritz Aktiengesellschaft, Graz-Andritz, Austria. Spring hammer. 2,665,600, Jan. 12.

Pistoles, Lambert R., Wilmington, Del. Gauge. 2,665,495, Jan. 12.

Pitlik, Hillel: *See*—
Bachelet, Albert E., and Pitlik.

Pitzer, Emory W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Preparation of iron dehydrogenation catalysts. 2,666,086, Jan. 12.

Plastic Innovations, Inc., assignee: *See*—
Burkes, Alexander.

Plywood Research Foundation, assignee: *See*—
Schubert, Dale L.

Poitras, Edward J., Holliston, and J. F. Taplin, West Newton, Mass. Pressure-operable liquid dispensing apparatus. 2,665,825, Jan. 12.

Polaroid Corporation, assignee: *See*—
Cooper, Dexter P., Jr.

Polymeros, Donald P., assignor to N. A. Champagne, Minneapolis, Minn. Vacuum operated signal device. 2,666,197, Jan. 12.

Porter, Carter E.: *See*—
Marcell, Thaddeus R., Porter, and Staib.

Potdevin Machine Company, assignee: *See*—
Richmond, Robert L., and Roth.

Powell, Carroll F.: *See*—
Campbell, Ivor E., Gouser, and Powell.

Powell, Elno M., Seven Bridges, assignor to Combustion Engineering, Inc., New York, N. Y. Fan with adjustable inlet for secondary air. 2,665,840, Jan. 12.

Powell, Harold E.: *See*—
Cornell, Warren A., Hall, Hecht, Koechling, Korn, and Powell.

Prather, Edwin E., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,665,785, Jan. 12.

Pratt, Leo, Georgetown, S. C. Fluid pressure actuated valve with stop means. 2,665,712, Jan. 12.

Price, Earl R., assignor to Bendix Aviation Corporation, South Bend, Ind. Switch mechanism. 2,666,103, Jan. 12.

Price, Harold W., Pasadena, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Transmission operating mechanism. 2,665,594, Jan. 12.

Proctor Electric Company, assignee: *See*—
Vogelsberg, Walter H.

Proctor & Schwartz, Inc., assignee: *See*—
Senior, John H., and Riehl.

Product Miniature Company, assignee: *See*—
Ford, William E.

Pryne, Ralph, Pomona, Calif. Means for securing light transmitting panes in window frames. 2,665,783, Jan. 12.

Pure Oil Company, The, assignee: *See*
Marshall, William A.

Puryear, Oney P.: *See*
Dilworth, John P., Finn, and Puryear.

Pyle-National Company, The, assignee: *See*—
Becker, Benjamin F.
Hechler, Arthur C.
Keegan, Frank X.

Quaker Oats Company, The, assignee: *See*—
Swadesh, Samuel.

Race, Michael W., Mansfield, Ohio. Spiral fish lure. 2,665,516, Jan. 12.

Radiart Corporation, The, assignee: *See*—
Ehrbar, Edward J., and Cronshey.

Radio Corporation of America, assignee: *See*—
Barton, Loy E.
Carpenter, Marshall M., Jr.
Endres, Richard O.
Kahn, Leonard R.
Keizer, Eugene O.
Krieger, Gardner L.
Rajchman, Jan A., Mesner, and Rosenberg.
Rajchman, Jan A., and Stuart-Williams.
Young, Charles J.

Radix Wire Company, assignee: *See*—
Wildberg, Leslie K.

Railroad Products Company, assignee: *See*—
McGarry, James W., and Wickemeier.

Raines, Thomas A., Bellwood, Ill. Air brake system tank heater. 2,666,126, Jan. 12.

Rajchman, Jan A. and R. Stuart-Williams, Princeton, N. J., assignors to Radio Corporation of America. Magnetic switching device. 2,666,151, Jan. 12.

Rajchman, Jan A., and M. H. Mesner, Princeton, and M. Rosenberg, Trenton, N. J., assignors to Radio Corporation of America. Bias generating matrix. 2,666,161, Jan. 12.

Rand, H. J., Washing Machine Corp., assignee: *See*—
Rand, Henry J.

Rand, Henry J., Bratenahl, Ohio, assignor to H. J. Rand Washing Machine Corp., New York, N. Y. Cover seal for washing machines. 2,665,574, Jan. 12.

Randall Company, The, assignee: *See*—
Hall, Ralph W.

Randol, Glenn T., Mountain Lake Park, Md. Safety razor. 2,665,477, Jan. 12.

Ransom, David H., Jr., San Diego, Calif. Echo ranging and sounding system. 2,666,190, Jan. 12.

Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Motor vehicle seat. 2,665,740, Jan. 12.

Rasey, Wesley W., assignee: *See*—
Benjamin, Leonard L.

Rasmussen, Villum B. K., Copenhagen, Denmark. Tilting window and mounting therefor. 2,665,457, Jan. 12.

Rawson, Emanuel, Chicago, Ill., assignor, by mesne assignments, to Package Machinery Company. Suspended milker. 2,665,663, Jan. 12.

Rawson, Emanuel, Chicago, Ill., assignor, by mesne assignments, to Package Machinery Company. Pulsator. 2,665,702, Jan. 12.

Rayman, Charles J.: *See*—
Boilean, Arthur H., Rayman, and Board.

Raymond, Florence A., assignee: *See*—
Butler, Arnold A.

Ream, Gordon A., Dearborn, Mich. Conveyer drive shear pin assembly. 2,665,570, Jan. 12.

Redmon, Don M.: *See*—
Backman, William O., and Redmon.

Reed, Robert L., Schenectady, N. Y., assignor to General Electric Company. Sorption type getter structure. 2,666,159, Jan. 12.

Reflector Hardware Corporation, assignee: *See*—
Samuels, Martin L.

Rehabilitation Center for the Physically Handicapped, Incorporated, assignee: *See*—
Thackeray, Charles K.

Reid, Robert J., C. Fulton, and W. M. Smith, Jr., Cuyahoga Falls, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Stabilizing and plasticizing vinylidene chloride resins. 2,666,039, Jan. 12.

Reigh, Clarence J., Altoona, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Grapple. 2,665,937, Jan. 12.

Reip, Frank A., Brooklyn, N. Y. Work dividing attachment. 2,665,614, Jan. 12.

Rendall, Warren C., Tampa, Fla., assignor to Gaylord Container Corporation, St. Louis, Mo. Produce tray. 2,665,836, Jan. 12.

Rex, Walter A., and R. W. Winkler, Westfield, N. J., assignors to Standard Oil Development Company. Preparation of aluminum alcoholate. 2,666,076, Jan. 12.

Reynolds, Luther B.: *See*—
Beall, Charles R., and Reynolds.

Rhys, Cyril O., Jr., Westfield, N. J., assignor to Standard Oil Development Company. Distributors in fluidized solids reactor vessels. 2,665,976, Jan. 12.

Ribich, Thomas A., Cleveland, Ohio, assignor, by mesne assignments, to Weldon Tool Company. Clutch and brake for paper separator drive mechanisms. 2,665,787, Jan. 12.

Ribich, Thomas A., Cleveland, Ohio, assignor, by mesne assignments, to Weldon Tool Company. Air control mechanism for pneumatic sheet separators. 2,665,907, Jan. 12.

Ricca, Bruno: *See*—
Menozzi, Giuseppe, V. Ricca, and B. Ricca.

Ricca, Vincenzo: *See*—
Menozzi, Giuseppe, V. Ricca, and B. Ricca.

Richardson, Earl L., Hyde Park, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrostatic precipitator. 2,665,770, Jan. 12.

Richmond, Robert L., Bronxville, and L. A. Roth, New Hyde Park, assignors to Potdevin Machine Company, Brooklyn, N. Y. Coating machine for sheet material. 2,665,662, Jan. 12.

Riehl, Harmon B.: *See*—
Senior, John H., and Riehl.

Roberts, Charles P.: *See*—
Low, Frank S., and Roberts.

Robertson, Alexander M., London, England. Adjustable loop chain link wrench. 2,665,604, Jan. 12.

Robinson, John S.: *See*—
Boersma, Barney, and Robinson.

Robinson, Leo C., Indianapolis, Ind. Venetian blind cleaning apparatus. 2,665,698, Jan. 12.

Rochester Lead Works, Inc., assignee: *See*—
De Quasie, Lacey G., and Kochs.

Rockwell, Edward A., Shaker Heights, Ohio, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Hydraulic power control system. 2,665,554, Jan. 12.

Rockwell Spring and Axle Company, assignee: *See*—
Glander, James J.
Williams, Ivor H., and Super.

Rodgers, Joseph, Flint, Mich., assignor, by mesne assignments, to Willys Motors, Inc., Toledo, Ohio. Blow plate seal for core blowing machines. 2,665,461, Jan. 12.

Rodney, Henry M., Spokane, Wash. Invisible shirt holder. 2,665,464, Jan. 12.

Rohr Aircraft Corporation, assignee: *See*—
Bancroft, William H., Jr.
Hardy, Raymond W.

Roland, John F., Jr., Chicago, and A. M. Gross, Oswego, assignors to Armour and Company, Chicago, Ill. Vitamin assay medium. 2,666,018, Jan. 12.

Roman, Michael, New York, N. Y. Power-driven tool. 2,665,599, Jan. 12.

Romer, Maurice H.: *See*—
Smith, Raymond E., and Romer.

Rosenbaum, Harry S., assignor to The Eastern Venetian Blind Company, Baltimore, Md. Venetian blind construction. 2,665,752, Jan. 12.

Rosenberg, Milton: *See*—
Rajchman, Jan A., Mesner, and Rosenberg.

Ross, Budd H., Tillamook, and A. C. Jensen, Portland, Oreg. Sealing rim for kitchen sinks. 2,665,430, Jan. 12.

Roth, Louis A.: *See*—
Richmond, Robert L., and Roth.

Rothschild, Robert F., Bronx, N. Y., assignor to The Sperry Corporation. Radio direction maintaining system. 2,666,199, Jan. 12.

Rott, André, Wilrijk-Antwerp, assignor to Gevaert Photo-Producten N. V., Mortsel-Antwern, Belgium. Producing colored reversal images. 2,665,986, Jan. 12.

Rowe, Harry C., Chicago, Ill., and E. H. Bladh, assignors to Nutone, Inc., Cincinnati, Ohio. Hour chiming clock. 2,665,544, Jan. 12.

Rowe, Stewart, Cincinnati, Ohio, assignor, by mesne assignments, to The Buckeye Cotton Oil Company, Memphis, Tenn. Manufacturing protein. 2,666,049, Jan. 12.

Rumpler, Anton, Vienna, Austria. Rotary mixer type carburetor. 2,665,892, Jan. 12.

Rupp, Albert J., South Egg Harbor, N. J. Protractor. 2,665,482, Jan. 12.

Rusher, John J., Royal Oak, Mich., assignor to Champion Spark Plug Company, Toledo, Ohio. Indexing mechanism. 2,665,589, Jan. 12.

Rust, John D., Pine Bluff, Ark. Adjustable cotton plant guide. 2,665,534, Jan. 12.

Rust, John D., Pinebluff, Ark. Cotton stripping comb. 2,665,535, Jan. 12.

Rust, John D., Pine Bluff, Ark. Spindle drive for cotton-picking machines. 2,665,536, Jan. 12.

Rust, John D., Pine Bluff, Ark. Rotary cotton fluffer. 2,665,537, Jan. 12.

Rutherford, Charles R.: *See*—
Hunt, Frederick V., Schuck, Rutherford, Hathaway, and Butz.

Sabatini, Joseph, Flushing, N. Y. Marker for trouser cuffs. 2,665,483, Jan. 12.

Sackner Products, Inc., assignee: *See*—
Boersma, Barney, and Robinson.

Sadler, Fred S., West Chester, Pa., assignor to The Sharples Corporation. Refining fatty oils. 2,666,074, Jan. 12.

Safir, Sidney R., River Edge, N. J., assignor to American Cyanamid Company, New York, N. Y. Substituted pyrazines and preparing the same. 2,666,054, Jan. 12.

Saginaw Manufacturing Company, assignee: *See*—
Gilbert, Charles T.

Salati, Octavio M., Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of the Army. Important quantity selecting circuit. 2,666,152, Jan. 12.

Salo, Henry W., Seattle, Wash. Structural unit and structure. 2,665,455, Jan. 12.

Samuels, Martin L., assignor to Reflector Hardware Corporation, Chicago, Ill. Hanger and spacer bracket. 2,665,869, Jan. 12.

Sanicom Company, Inc., assignee: *See*—
Arvintz, Abraham A., Arvins, and Arvintz.

Sanowskis, Albert, Chicago, Ill. Step-by-step operated combination lock. 2,665,577, Jan. 12.

Sargent, Donald E.: *See*—
Copenhaver, John W., and Sargent.

Saunders, George L., Kennewick, Wash. Means for mounting blades on hand implements. 2,665,434, Jan. 12.

Savage, Conwell, New York, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Elevator inductor switch. 2,666,111, Jan. 12.

Sawyer, John W., Arlington, Va. Shaft sealing device. 2,665,929, Jan. 12.

Schaaber, Otto, Schorndorf, Württemberg, assignor, by mesne assignments, to S. Junghans, Schorndorf, Germany. Anodic coating of aluminum. 2,666,023, Jan. 12.

Schaefer, Robert J., Chatham, N. J., assignor to Ethicon, Inc. Suture package. 2,665,805, Jan. 12.

Schaffert, Roland M., R. C. McMaster, and W. E. Bixby, assignors, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio. Electroradiography. 2,666,144, Jan. 12.

Schaub, Fred H., Engineering Co., Inc., assignee: *See*—
Schaub, Robert F.

Schaub, Robert F., assignor to Fred H. Schaub Engineering Co., Inc., Chicago, Ill. Steam flow control system. 2,665,847, Jan. 12.

Schenker, Victor: *See*—
Hechter, Oscar, Jacobsen, Jeanloz, Levy, Pincus, Schenker, and Marshall.

Schetzer, Charles H., Goodland, Kans. Shoe scraper for automotive vehicles. 2,665,921, Jan. 12.

Schindler, Walter: *See*—
Häfliger, Franz, and Schindler.

Schmidt, Peter A., Tacoma, Wash. Garbage can stand. 2,665,868, Jan. 12.

Schmidt, Ruth G., Pittsburgh, Pa. Protective garment. 2,665,426, Jan. 12.

Schnelder, Frank L., and V. Fancher, Dayton, Ohio. Shrimp deveiner. 2,665,449, Jan. 12.

Schober, Wayne E.: *See*—
Carlson, Clinton V., and Schober.

Scholbe, Jack L.: *See*—
Moyer, Frederick D., and Scholbe.

Schonitzer, Rudolph L.: *See*—
Allen, Edwin L., and Schonitzer.

Schörner, Christian, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany. Turbine rotor. 2,665,880, Jan. 12.

Schubert, Dale L., assignor to Plywood Research Foundation, Tacoma, Wash. Panel brander. 2,665,633, Jan. 12.

Schuck, Oscar H.: *See*—
Hunt, Frederick V., Schuck, Rutherford, Hathaway, and Butz.

Schwartz, Samuel M., and D. Gross, Paterson, N. J., assignors to Velveray Corporation New York, N. Y. Stencil printing apparatus. 2,665,634, Jan. 12.

Schwelngruber, Kurt, Zurich, Switzerland. Electric switching apparatus controlled by solar radiation. 2,666,116, Jan. 12.

Schwencke, Edmund H., New York, N. Y., assignor to Elastomer Chemical Corporation, Newark, N. J. Producing a cellular structure in a plasticized vinyl ester resin. 2,666,036, Jan. 12.

Scovill Manufacturing Company, assignee: *See*—
Fenton, Paul E., and Carpinella

Scudi, John V., New York, and L. E. Tenenbaum, Brooklyn, assignors to Nepera Chemical Co. Inc., Yonkers, N. Y. Arylethers of glycerol bis-chloralhemiacetal. 2,666,082, Jan. 12.

Searle, G. D., & Co., assignee: *See*—
Hechter, Oscar, Jacobsen, Jeanloz, Levy, Pincus, Schenker, and Marshall.
Pincus, Gregory, and Hechter.

Searle, Merton A., Lincoln, Nebr. Food flavoring. 2,665,988, Jan. 12.

Searle, Robert F., Mobile, Ala., assignor to Arkell and Smiths. Paste applicator for paper bag sleeves. 2,665,661, Jan. 12.

Sebago-Moc Shoe Company, assignee: *See*—
McConnell, Roland G.

Sebok, Joseph B., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Underwater air cleaner. 2,665,771, Jan. 12.

Seeger, Edwin W., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Controller for electric motors and other translating devices. 2,666,175, Jan. 12.

Seljos, Arthur L.: *See*—
Crookston, Robert R., and Seljos.

Senior, John H., Germantown, and H. B. Riehl, Norristown, assignors to Proctor & Schwartz, Inc., Philadelphia, Pa. Fiber blending apparatus. 2,665,453, Jan. 12.

Sevall, Herbert E.: *See*—
Howard, Hartley W., Block, and Sevall.

Shahan, Louie W., Selma, Ala. Artificial fish lure. 2,665,513, Jan. 12.

Shakespeare Company, assignee: *See*—
Shakespeare, Henry G., and Harrington.

Shakespeare, Henry G., and G. D. Harrington, assignors to Shakespeare Company, Kalamazoo, Mich. Spinning type fishing reel. 2,665,856, Jan. 12.

Sharples Corporation, The, assignee: *See*—
Sadler, Fred S.

Sheehan, Edmund J., assignee: *See*—
Francek, Joseph R.

Sheldon, Charles W., Lancaster County, assignor to Hamilton Watch Company, Lancaster, Pa. Desk clock. 2,665,542, Jan. 12.

Shell Development Company, assignee: *See*—
Bakalar, Arthur B., and Sullivan.
Detling, Kenneth D., Knight, and Williamson.
Gignoux, John R.
Nozaki, Kenzie.

Shelton, Leonard L., assignor to Houston Oil Field Material Company, Inc., Houston, Tex. Combination jar and key seat reamer. 2,665,887, Jan. 12.

Sheppard, Richard H., Hanover, Pa. Valve seat insert. 2,665,675, Jan. 12.

Sherrill, George G., Troutmans, N. C. Mounting for carding machine cylinder shafts and the like. 2,665,954, Jan. 12.

Shively, John J., New York, N. Y. Ice chipping machine. 2,665,852, Jan. 12.

Shore, Sidney N., New York, N. Y. Magnetic dart. 2,665,911, Jan. 12.

Showalter, Billy J.: *See*
Turkleson, Robert E., and Showalter.

Siegel, David T., assignee: *See*
Chanowitz, Harry.

Siegenthaler, Walter, Erlenbach, and K. Lauger, Kusnacht, assignors to Maschinenfabrik Scharer, Erlenbach, Switzerland. Multiple in-line spooler. 2,665,854, Jan. 12.

Silsby, Christopher C., Jr., Euclid, assignor to Diamond Alkali Company, Cleveland, Ohio. Electrolytic cell for the electrolysis of brine. 2,666,028, Jan. 12.

Simon, Simon A., Longmeadow, and A. H. Drelich, Springfield, assignors, by mesne assignments, to Chicopee Manufacturing Corporation, Chicopee Falls, Mass. Astatic brush for grooming the hair. 2,665,443, Jan. 12.

Sindelar, William F.: *See*—
Cockerill, Gerald L., and Sindelar.

Sivertsen, Peter M., Greenwich, Conn. Cleaning device for slicing machine sharpeners. 2,665,531, Jan. 12.

Skipper, Harry C.: *See*—
Johnston, Mordica O., and Skipper.

Slavens, Wayne E., Des Moines, assignor to Deere Manufacturing Co., Dubuque, Iowa. Ear-handling means for cornhusking mechanisms. 2,665,695, Jan. 12.

Slezak, Raymond J., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Tubeless tire. 2,665,731, Jan. 12.

Slezak, Raymond J., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Valve for tubeless tire diaphragms. 2,665,732, Jan. 12.

Slomer, Joseph J., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining and loading machine. 2,665,794, Jan. 12.

Sloneczewski, Thaddeus, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Measuring apparatus. 2,666,100, Jan. 12.

Smiley, Karl L.: *See*—
Van Lanen, James M., Smiley, and Stone.

Smith, Alexander, and B. D. Baggs, Jr., Sanford, Fla. Cultivator attachment. 2,665,621, Jan. 12.

Smith, Charles G., Wilkinsburg, and D. A. Best, East McKeesport, assignors to The American Brake Company, Swissvale, Pa. Forged and welded brake head. 2,665,779, Jan. 12.

Smith, Clarence E., assignor to Gratlex, Inc., Rochester, N. Y. Mirror supporting mount and securing means. 2,665,611, Jan. 12.

Smith, Clyde, Hopkinsville, Ky. Mechanized merchandising system. 2,665,775, Jan. 12.

Smith, George E. P., Jr.: *See*—
Carr, Edward L., and Smith.

Smith, Herbert A.: *See*—
Olah, George, and Smith.

Smith, John E., Greenville, S. C. Filling-end parting mechanism for looms. 2,665,717, Jan. 12.

Smith, Raymond D., Easton, assignor to The A. C. Gilbert Company, New Haven, Conn. Perforate roadbed simulating attachment for toy railroad tracks. 2,665,849, Jan. 12.

Smith, Raymond E., Hamden, and M. H. Romer, East Haven, assignors to The A. C. Gilbert Company, New Haven, Conn. Roadbed simulating attachment for railroad tracks. 2,665,848, Jan. 12.

Smith, Robert H., and C. J. Van Haltern, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Cooled turbine blade. 2,665,881, Jan. 12.

Smith, Rulo W., Auburn, assignor of one-half to J. A. McMeen, Fort Wayne, Ind. Air circulator. 2,665,841, Jan. 12.

Smith, William M., Jr.: *See*—
Reid, Robert J., and Smith.

Smitley, Marion L., Detroit, Mich., assignor to G. M. and E. Holley. Antistall device. 2,665,891, Jan. 12.

Snook, W. B., Mfg. Co., Inc., assignee: *See*—
Snook, Walter B.

Snook, Walter B., assignor to W. B. Snook Mfg. Co., Inc., Palo Alto, Calif. Thermally controlled fireplace damper. 2,665,683, Jan. 12.

Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine, assignee: *See*—
Marquaire, Charles.

Societe Francaise des Munitions de Chasse, de Tir et de Guerre, S. A., assignee: *See*
Morel, Maurice E.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Turkelson, Robert E., and Showalter.
Winn, Francis W., and Steffens.

Söderlund, Gustav B., Stockholm, Sweden. Producing chain-links. 2,665,547, Jan. 12.

Soffer, Jack W., assignor to Development Research, Inc., St. Louis, Mo. Container closure. 2,665,820, Jan. 12.

Solar Corporation, assignee: *See*—
Foster, Willis R., and Wethe.

Spaulding, Carl P.: *See*—
Clapp, James K., Spaulding, and Watt.

Speed Queen Corporation, assignee: *See*—
Thiele, Berthold R.

Speedograph, Inc., assignee: *See*—
Bickel, Arthur J.

Sperry Corporation, The, assignee: *See*—
Brannin, Richard S., Jr., and Halpert.
Rothschild, Robert F.

Spindler, Norman J., and C. O. Peterson, assignors to Watson Manufacturing Company, Inc., Jamestown, N. Y. Exposed filing and record keeping equipment. 2,665,741, Jan. 12.

Spitalny, Milton M., Maplewood, N. J. Pyrophoric lighter. 2,665,572, Jan. 12.

Spitalny, Milton M., Maplewood, N. J. Lighter using gaseous fuel. 2,665,573, Jan. 12.

Spo, Inc., assignee: *See*—
Young, Lester C.

Spurlock, James J., Denton, Tex. Mercaptohydantoins. 2,666,063, Jan. 12.

Square D Company, assignee: *See*—
Jackson, John G.

Staaff, Per H., Bromma, assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal bowl with conical disks having distributing holes. 2,665,843, Jan. 12.

Staccone, Valentine, and F. Amico, Rochester, N. Y. Toy automobile with windshield wiper. 2,665,520, Jan. 12.

Staib, John H.: *See*—
Marcell, Thaddeus R., Porter, and Staib.

Standard Oil Development Company, assignee: *See*—
Crookston, Robert R., and Selios.
De Hoff, Hugh C.
Lewis, Warren K., and Gilliland.
Nelson, Joseph F., Leary, and Welch.
Nelson, Norman A.
Ng, Thomas.
Rex, Walter A., and Winkler.
Rhys, Cyril O., Jr.

Stanley, Charles F., assignor to The Fafnir Bearing Company, New Britain, Conn. Eccentric ring locking means. 2,665,930, Jan. 12.

Stapleton, James A., Cornelia, Ga., assignor, by mesne assignments, to Chicopee Manufacturing Corporation, Chicopee Falls, Mass. Apparatus for straightening fabric. 2,665,470, Jan. 12.

Starcevich, Stephen S., East Chicago, Ind. Tumbler rinser. 2,665,440, Jan. 12.

Starr, Donald F., Montclair, and K. K. Haber, Jersey City, N. J., assignors to S. B. Penick & Company, Incorporated, New York, N. Y. Manufacture of 3-(α-phenyl-β-acetylethyl)-4-hydroxycoumarin. 2,666,064, Jan. 12.

Starysky, Charles, Sheridan, Mont. Combination baby walker and high chair. 2,665,742, Jan. 12.

Stauss, Karl R., Poughkeepsie, assignor to International Business Machines Corporation, New York, N. Y. Typewriting machine having automatic cutoff switch. 2,665,792, Jan. 12.

Stayner, Richard D. and R. A., Berkeley, assignors to California Research Corporation, San Francisco, Calif. Fuel oil compositions. 2,665,978, Jan. 12.

Stayner, Richard D., Albany, assignor to California Research Corporation, San Francisco, Calif. Quaternary ammonium germicide compositions. 2,666,009, Jan. 12.

Stayner, Richard D., Albany, assignor to California Research Corporation, San Francisco, Calif. Quaternary ammonium germicidal compositions. 2,666,010, Jan. 12.

Stayner, Robert A.: *See*—
Stayner, Richard D. and R. A.

Steffenino, Giuseppe, Turin, Italy. Production of a continuous monolithic hollow member from heat weldable material. 2,665,735, Jan. 12.

Steffens, Lester R.: *See*—
Winn, Francis W., and Steffens.

Steig, William, New York, N. Y. Gaming device. 2,665,915, Jan. 12.

Stephenson, John G.: *See*—
Hulstede, George E., and Stephenson.

Sternfield, George L., and M. W. Block, Chicago, Ill. Disposable cleansing tissue. 2,665,528, Jan. 12.

Stevens, Horace D., and H. H. Waters, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Automatic measuring and cutting ply feeder. 2,665,757, Jan. 12.

Stewart-Warner Corporation, assignee: *See*—
Petroff, Merlin.

Stoddart, Adam T.: *See*—
Leypoldt, Harry R., and Stoddart.

Stone, Burnham E., assignor to The International Electronics Company, Philadelphia, Pa. Control mechanism for equipment for handling elongated records. 2,665,855, Jan. 12.

Stone, Leonard: *See*—
Van Lanen, James M., Smiley, and Stone.

Stover, Emory F., Wynnewood, Pa. Fluid pressure control apparatus. 2,665,707, Jan. 12.

Street, Julianne R., Charlestown Township, Chester County, and J. M. Woolston, Strafford, Pa. Turban. 2,665,427, Jan. 12.

Strehlow, Robert W., assignor to Chain Belt Company, Milwaukee, Wis. Garbage grinder. 2,665,851, Jan. 12.

Stromberg-Carlson Company, assignee: *See*—
Enslein, Kurt, and Haskins.

Stuart-Williams, Raymond: *See*
Rajchman, Jan A., and Stuart-Williams.

Sturges, Benjamin R., assignee: *See*—
Pendleton, Pyam L.

Sullivan, John J., L. H. Martell, and W. H. Ingersoll, St. Paul, Minn. Fish lure. 2,665,512, Jan. 12.

Sullivan, Robert D.: *See*—
Bakalar, Arthur B., and Sullivan.

Sulzer Freres, Societe Anonyme, assignee: *See*—
Traupel, Walter.

Sun Rubber Company, The, assignee: *See*—
Mobley, Edward L., Jr.

Sunkist Growers, Inc., assignee: *See*—
Baier, Willard E.

Super Electric Products Corp., assignee: *See*—
Lorant, Lionel.

Super Mold Corporation of California, assignee: *See*—
Glynn, Edwin A.

Super, Ralph K.: *See*—
Williams, Ivor H., and Super.

Superior Concrete Accessories, Inc., assignee: *See*—
Hillberg, Bror.

Sury, Ernst, Basel, and K. Hoffmann, Binningen, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J., 1,3-bisaminoalkyl-3-phenyl-2,5-dioxopyrrolidines. 2,666,060, Jan. 12.

Süs, Oskar, Wiesbaden-Biebrich, Germany, assignor to Keuffel & Esser Company, Hoboken, N. J. Light-sensitive diazo compounds and photoprint material prepared therefrom. 2,665,985, Jan. 12.

Sutherland Paper Company, assignee: *See*—
Galbraith, Martin J.
Wood, Wayne A.

Svenson, Ernest J., Rockford, assignor to Odin Corporation, Chicago, Ill. Pump structure. 2,665,639, Jan. 12.

Swadesh, Samuel, Maywood, assignor to The Quaker Oats Company, Cook County, Ill. Preparation of 2-alkoxy-2-alkyltetrahydrofurans. 2,666,065, Jan. 12.

Swan, Carl W., Skokie, assignor, by mesne assignments, to Teletypesetter Corporation, Chicago, Ill. Delay mechanism for tape controlled apparatus. 2,665,799, Jan. 12.

Swanson, Fred W., Park Ridge, Ill. Bacon package. 2,665,993, Jan. 12.

Swanson, J. Robert F., assignee: *See*
Swanson, Swan.

Swanson, Swan, Lansing, assignor to J. R. F. Swanson, Birmingham, Mich. Farm gate. 2,665,508, Jan. 12.

Sydoriak, Stephen G., New Haven, Conn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Microwave attenuator. 2,666,184, Jan. 12.

Sylvania Electric Products Inc., assignee: *See*—
Baker, Harold E., and Brooks.
Bowie, Robert M.
Brooks, Joseph H.
Midgley, Eric L., and Young.

Talbot, Lee I., Livermore, Calif. Fire extinguishing bomb. 2,665,768, Jan. 12.

Tangemann, Albert H., assignor to Be-Ge Manufacturing Co., Gilroy, Calif. Sawmill log loader and turner. 2,665,720, Jan. 12.

Taplin, John F.: *See*—
Poltras, Edward J., and Taplin.

Tarter, Henry G.: *See*—
Volz, Arthur J., and Tarter.

Taussig, John H., Jr., Ambler, assignor, by mesne assignments, to The United Gas Improvement Company, Philadelphia, Pa. Reforming gaseous hydrocarbons. 2,665,979, Jan. 12.

Teletype Corporation, assignee: *See*—
Zenner, Walter J.

Teletypesetter Corporation, assignee: *See*—
Swan, Carl W.

Temple, Stanley A., Rocky River, Ohio. Projectile launching device. 2,665,421, Jan. 12.

Ten Brink, Karl C.: *See*—
Herzog, Gerhard, and ten Brink.

Tenenbaum, Leon E.: *See*—
Sendi, John V., and Tenenbaum.

Terry, Sydney L., St. Clair Shores, assignor to Chrysler Corporation, Highland Park, Mich. Split lockwasher having movement limiting means. 2,665,729, Jan. 12.

Texas Company, The, assignee: *See*—
Arnold, George B., Hess, Truitt, and Fitzwilliam.
Carkeek, Charles R.
Dilworth, John P., Finn, and Puryear.
Fitzwilliam, James W., and Arnold.
Herzog, Gerhard.
Herzog, Gerhard, and ten Brink.
Weiss, Walter J.

Thackeray, Charles K., assignor to Rehabilitation Center for the Physically Handicapped, Incorporated, Stamford, Conn. Crutch. 2,665,701, Jan. 12.

Theenhaüsen, Heinrich, assignor to Anker-Werke A. G., Bielefeld, Germany. Portable sewing machine. 2,665,653, Jan. 12.

Thiele, Berthold R., assignor to Speed Queen Corporation, Ripon, Wis. Domestic laundering machine. 2,665,576, Jan. 12.

Thompson, Arthur M.: *See*—
Hollway, David L., and Thompson.

Thompson, Joseph C., Davenport, Iowa. Spinograph apparatus. 2,666,143, Jan. 12.

Thomson, Robin H. K., Fairlie, Scotland, assignor to Imperial Chemical Industries Limited. Insolubilizing spun protein filamentary products. 2,665,966, Jan. 12.

Tiberg, Magnus G. G.: *See*—
Johansson, Folke C. E., and Tiberg.

Tice, Ralph L., Columbus, Ga. Weft thread cutter and guard. 2,665,718, Jan. 12.

Tide Water Associated Oil Company, assignee: *See*—
Bishop, John W.

Tillery Container Company, assignee: *See*—
Tillery, Hubert B.

Tillery, Hubert B., assignor to Tillery Container Company, Kansas City, Mo. Garment hanger guard. 2,665,829, Jan. 12.

Tobey, Hyman S., Plainfield, N. J. Mandible positioning gauge. 2,665,488, Jan. 12.

Tolkien, Fritz, Hanover, Germany. Rodless slide valve regulating device. 2,665,667, Jan. 12.

Townend, Robert V., Arlington, N. J., and H. Q. Trout, Brooklyn, assignors to Allied Chemical & Dye Corporation, New York, N. Y. Purification of aluminum sulfate liquors. 2,665,969, Jan. 12.

Traupel, Walter, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Apparatus for controlling the power output of gas turbine plants. 2,665,548, Jan. 12.

Trendel, Alois F.: *See*—
Hohl, John, and Trendel.

Trent, Robert L., Far Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transistor trigger circuit for operating relays. 2,665,845, Jan. 12.

Triangle Package Machinery Company, assignee: *See*—
Bagby, Ralph B.

Trible, Winthrop: *See*—
Haas, Frederick S., and Trible.

Trico Products Corporation, assignee: *See*—
Rappl, Anton.

Troeger, Henry, Ramsey, assignor to Bendix Aviation Corporation, Teterboro, N. J. Starter for internal-combustion engines. 2,665,587, Jan. 12.

Trout, Horace Q.: *See*—
Townend, Robert V., and Trout.

Truesdell, Henry N., Irvington, N. J. Container for storing and delivering disk records. 2,665,962, Jan. 12.

Truitt, James K.: *See*—
Arnold, George B., Hess, Truitt, and Fitzwilliam.

Trumble, John T., Detroit, Mich. Interlocking sheet metal and attachment nut construction. 2,665,730, Jan. 12.

Tryco Manufacturing Co., Inc., assignee: *See*—
De Ment, Harold E., and Wisnasky.

Turkleson, Robert E., and B. J. Showalter, Beaumont, Tex., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Percolation filter. 2,665,811, Jan. 12.

Turnbull, Frederick M., assignee: *See*—
Brown, Frank E.

Tuttle, Clifton M., and F. M. Brown, Halesite, assignors to Kenyon Instrument Company, Inc., Huntington, N. Y. Apparatus for processing photographic film. 2,665,619, Jan. 12.

Union Carbide and Carbon Corporation, assignee: *See*—
Curtin, John L., and Yenni.
Eversole, William G., O'Brien, and Gillette.
Fitzpatrick, John T.
Pelton, John F.

United Aircraft Corporation, assignee: *See*—
Newcomb, Philip P.

United Aircraft Products, Inc., assignee: *See*—
Ghormley, Edwin I.

United-Carr Fastener Corporation, assignee: *See*—
Becker, Philip D.

United Gas Improvement Company, The, assignee: *See*—
Taussig, John H., Jr.

United Shoe Machinery Corporation, assignee: *See*—
Bradley, Robert W.
Fossa, Joseph.
Jorgensen, Bernhardt.

United States Atomic Energy Commission, the United States of America as represented by the, assignee: *See*—
Borst, Lyle B.
Olden, Roger G.

United States Rubber Company, assignee: *See*—
Buckwalter, Howard M.
Mooney, Melvin.

United States Steel Corporation, assignee: *See*—
Chenault, Roy L.
Harvey, Herbert.
Lorig, Edwin T.

Universal Match Corporation, assignee: *See*—
Gilbert, Philip.

Universal Winding Company, assignee: *See*—
Macy, James C., and Kusiv.

University of California, Regents of the, assignee: *See*—
Gier, Joseph T., and Dunkle.

Upjohn Company, The, assignee: *See*
Cookson, Leonard T.
Hanze, Arthur R., and Levin.
Murray, Herbert C., and Peterson.

Urschel, Gerald W.: *See*—
Urschel, Joe R. and G. W.

Urschel, Joe R. and G. W., Valparaiso, Ind. Machine for slicing corn kernels. 2,665,723, Jan. 12.

Vallett, Walter L., Detroit, assignor to The Corrosion Control Company, Midland, Mich. Anode for cathodic protecting systems. 2,666,027, Jan. 12.

Van Der Sluys, William: *See*—
Janeway, Robert N., and Van Der Sluys.

Van Haaften, Egbert, Lancaster Township, Lancaster County, assignor to Hamilton Watch Company, Lancaster, Pa. Balance bar for watches. 2,665,546, Jan. 12.

Van Haltern, Cornelius J.: *See*—
Smith, Robert H., and Van Haltern.

Van Lanen, James M., K. L. Smiley, and L. Stone, assignors to Hiram Walker & Sons, Inc., Peoria, Ill. Producing riboflavin. 2,666,014, Jan. 12.

Varble, Harold E., Avenal, Calif. Shiftless transmission. 2,665,596, Jan. 12.

Vasey, Charles H.: *See*—
Boon, William R., and Vasey.

Vegren, Conrad R., Washington, D. C. Quick acting connector. 2,665,931, Jan. 12.

Velveray Corporation, assignee: *See*—
Schwartz, Samuel M., and Gross.

Versal Inc., assignee: *See*—
Cosper, Dale L.

Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, assignee: *See*—
Aschwanden, Paul, and Burri.

Vierling, Walter V.: *See*—
Youkers, Harold A., and Vierling.

Vogelsberg, Walter H., Glen Burnie, Md., assignor to Proctor Electric Company, Philadelphia, Pa. Control apparatus for electrical heating units. 2,666,124, Jan. 12.

Vogt, Clarence W., Norwalk, Conn. Production of plastic masses. 2,665,648, Jan. 12.

Volz, Arthur J., and H. G. Tarter, assignors to Bendix Aviation Corporation, South Bend, Ind. Charge forming device or carburetor. 2,665,671, Jan. 12.

Vore, Willis E.: *See*—
Kirby, Frank J., and Vore.

Waldherr, John, Jr., Fairfield, Ill., assignor to Chefford Master Manufacturing Co. Inc. Ball retainer ring for ball bearings. 2,665,958, Jan. 12.

Waldorf Paper Products Company, assignee: *See*—
Guyer, Reynolds.

Walker, Hiram, & Sons, Inc., assignee: *See*—
Van Lanen, James M., Smiley, and Stone.

Walker, Jay P., and C. O. Glasgow, assignors to National Tank Company, Tulsa, Okla. Method and apparatus for removing condensible fluids from gaseous streams. 2,665,769, Jan. 12.

Walker, Ronald W., Amarillo, Tex. Refrigerated cream dispensing cabinet. 2,665,563, Jan. 12.

Wallace, Marcel, Port Chester, Conn. Beat frequency oscillator. 2,666,140, Jan. 12.

Wallace, Marcel, assignor, by mesne assignments, of one-half to said Wallace doing business as Panoramic Laboratories, East Portchester, Conn. Synchrometric radar system. 2,666,198, Jan. 12.

Wallace, William E.: *See*—
Williams, William W., Wallace, and Freyermuth.

Wallack, Sanford, Fairfield, Conn., assignor, by mesne assignments, to L. Leiberman, New York, N. Y. Combination dining furniture unit. 2,665,963, Jan. 12.

Walsh, Robert, assignor to American Car and Foundry Company, New York, N. Y. Locomotive fresh water system. 2,665,705, Jan. 12.

Walz, Claude W.: *See*—
Bozeman, Virgil F., Sr., Walz, Griff, and Clausen.

War, United States of America as represented by the Secretary of, assignee: *See*—
Clapp, James K., Spaulding, and Watt.
Cunningham, Fredric, Jr., and Emslie.
Dicke, Robert H.
Hulstede, George E., and Stephenson.
Hutchinson, Franklin.
Sydoriak, Stephen G.

Ward, Patrick C., San Francisco, Calif. Engine. 2,665,668, Jan. 12.

Waters, Herbert H.: *See*—
Stevens, Horace D., and Waters.

Watson Manufacturing Company, Inc., assignee: *See*—
Spindler, Norman J., and Peterson.

Watson, Richard E.: *See*—
Williams, Albert J., Jr., and Watson.

Watt, Bob E.: *See*—
Clapp, James K., Spaulding, and Watt.

Weber, Harriette B., Saginaw, Mich. Eye shield. 2,665,423, Jan. 12.

Weber, Karl F., Los Angeles, Calif. Transmission. 2,665,590, Jan. 12.

Weidt, Alvin L., Minneapolis, Minn. Infant's crib. 2,665,433, Jan. 12.

Weil, Alex, New York, N. Y. Safety poison-feeding device for ants and the like. 2,665,518, Jan. 12.

Weintraub, Herman, Cedarhurst, and C. Fuerst, Bronx, assignors to Gleitsman's, Inc., Long Island City, N. Y. Hamper. 2,665,842, Jan. 12.

Wels, Anthonie E., South Nyack, N. Y. Combination lipstick applicator and sharpener. 2,665,696, Jan. 12.

Welss, Walter J., Rolling Hills Area, Calif., assignor to The Texas Company, New York, N. Y. Controlling viscosity of drilling fluids. 2,666,032, Jan. 12.

Welsz, Daniel I.: *See*—
Maroney, Clair F., Welsz, and McGrew.

Welch, Gerald C., Rochester, N. Y. Surface test indicator. 2,665,658, Jan. 12.

Welch, Lester M.: *See*—
Nelson, Joseph F., Leary, and Welch.

Weldon, James L., West Branch, Mich. Ring tray for dental use. 2,665,479, Jan. 12.

Weldon Tool Company, assignee: *See*—
Ribich, Thomas A.

Wells, Norman C., Long Beach, assignor to Agate Corporation, Los Angeles, Calif. Well pump filter. 2,665,644, Jan. 12.

Wells, Norman C., Long Beach, assignor to Agate Corporation, Los Angeles, Calif. Well pump gas and sand control filter. 2,665,645, Jan. 12.

Wesstrom, Alfred: *See*—
Kasak, Antonin, and Wesstrom.

West Point Manufacturing Company, assignee: *See*—
Beall, Charles R., and Reynolds.

Western Electric Company, Incorporated, assignee: *See*—
Leypoldt, Harry R., and Stoddart.

Westinger, Karl, E. Altenburger, and O. Hirt, Oberndorf (Neckar), Württemberg, assignors to Olympia Werke West G. m. b. H., Wilhelmshaven, Germany. Calculating business machine. 2,665,844, Jan. 12.

Westinghouse Air Brake Company, assignee: *See*—
Mishelevich, Benjamin.

Westinghouse Electric Corporation, assignee: *See*—
Berkovitz, Harry.
Gleason, Charles H.
Leeds, Winthrop M.
Ludwig, Leon R., Leeds, Baker, and Cumming.
Richardson, Earl L.
Savage, Conwell.
Wilcox, Charles A.
Zehrbach, Edgar L.

Wethe, Harry K.: *See*—
Foster, Willis R., and Wethe.

Wetterau, Carl R.: *See*—
Greer, Edward M., and Wetterau.

Whipple, George H.: *See*—
Morningstar, Ralph E., and Whipple.

Whipple, John E., Rumford, R. I., assignor to Fram Corporation. Flow control filter element. 2,665,810, Jan. 12.

White, John A., Jr., assignor to Be-Ge Manufacturing Co., Gilroy, Calif. Vertically adjustable frame for implement supporting carts. 2,665,920, Jan. 12.

Whitlock, Paul, Lebanon, Ohio. Toy gun. 2,665,677, Jan. 12.

Whitmore, Harland W., Kenosha, Wis., assignor to Motor Products Corporation, Detroit, Mich. Crisper pan structure. 2,665,817, Jan. 12.

Wiekemeier, Benjamin W.: *See*
McGarry, James W., and Wiekemeier.

Wiczer, Sol B., Washington, D. C. Comminuted product and grinding. 2,665,850, Jan. 12.

Wilckens, Elbe A., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Handling sheets and forming decorated caps. 2,665,473, Jan. 12.

Wilcox, Charles A., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Range apparatus. 2,665,458, Jan. 12.

Wildberg, Leslie K., Shaker Heights, assignor to Radix Wire Company, Cleveland, Ohio. Low loss high-frequency transmission line. 2,666,093, Jan. 12.

Williams, Albert J., Jr., Philadelphia, and R. E. Watson, Chesney Downs, assignors to Leeds and Northrup Company, Philadelphia, Pa. Electric motor control system with reduced cross-dependence of control effects. 2,666,171, Jan. 12

Williams, Ivor H., Birmingham, and R. K. Super, Detroit, Mich., assignors, by mesne assignments, to Rockwell Spring and Axle Company, Coraopolis, Pa. Power transmitting mechanism. 2,665,593, Jan. 12.

Williams, William W., Easton, Pa., W. E. Wallace, Rensselaer, N. Y., and H. B. Freyermuth, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Triazine fluorescent agents. 2,666,052, Jan. 12.

Williams, Winston F., and E. N. Phillips, assignors to Collins Radio Company, Cedar Rapids, Iowa. Shorting plunger. 2,666,186, Jan. 12.

Williamson, Boyce, Birmingham, Ala., assignor to The Ingalls Shipbuilding Corporation. Integrated barge tow and barges for use as component vessels thereof. 2,665,656, Jan. 12.

Williamson, George T.: *See*—
Detling, Kenneth D., Knight, and Williamson.

Willson, Stuart D.: *See*—
Davis, Selby B., and Willson.

Willys Motors, Inc., assignee: *See*—
Rodgers, Joseph.

Wilson, Andrew N.: *See*
Harris, Stanton A., and Wilson.

Wilson, James M., Vancouver, Wash. Deflation indicator for pneumatic tires. 2,666,106, Jan. 12.

Wilson, Page L., Los Angeles, Calif. Golf putter. 2,665,909, Jan. 12.

Winder, Samuel E., assignee: *See*
Youkers, Harold A., and Vierling.

Winkler, Raymond W.: *See*
Rex, Walter A., and Winkler.

Winn, Francis W., Woodbury, and L. R. Steffens, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Recovering propane and heavier hydrocarbons. 2,666,019, Jan. 12.

Winzen, Otto C.: *See*
La Mere, Frank J., Johnson, and Winzen.

Wisconsin Alumni Research Foundation, assignee: *See*—
Knight, Stanley G.

Wise Potato Chip Co., assignee: *See*—
Xander, Paul A.

Wismasky, Herschel L.: *See*—
De Ment, Harold E., and Wismasky.

Wohlrab, Curt, Jr., assignor to Musik-Haus "Wohlrab" G. m. b. H., Heidelberg, Germany. Valve or piston mechanism for brass band instruments. 2,665,606, Jan. 12.

Wolf, Burton M.: *See*—
Armstrong, Robert R., and Wolf.

Wood, Edwin E., Malden, and W. A. Hafferty, Charlestown, Mass. Face mask. 2,665,686, Jan. 12.

Wood, Wayne A., assignor to Sutherland Paper Company, Kalamazoo, Mich. Carton closing machine. 2,665,532, Jan. 12.

Woodhams, Walter J., assignor to Woodlin Metal Products Company, Marshall, Mich. Ventilator assembly. 2,665,625, Jan. 12.

Woodlin Metal Products Company, assignee: *See*—
Woodhams, Walter J.

Woofter, Robert C., Cortland, Ohio, assignor to General Motors Corporation, Detroit, Mich. Spark plug boot. 2,665,673, Jan. 12.

Woolston, Janet M.: *See*—
Street, Julianne R., and Woolston.

Wrought Washer Mfg. Co., assignee: *See*—
Borges, Walter F., and Goss.

Wynne, Robert J., Oakland, Calif. Internal comparative gauge. 2,665,496, Jan. 12.

Xander, Paul A., Nescopeck, Pa., assignor to Wise Potato Chip Co. Producing protein hydrolizate from potatoes and potato waste. 2,666,080, Jan. 12.

Yenni, Donald M.: *See*—
Curtin, John L., and Yenni.

Yocum, Reuben J., Omaha, Nebr. Ice-skating rink. 2,665,561, Jan. 12.

Youkers, Harold A., Anderson, Ind., and W. V. Vierling, Knox, Pa., assignors of one-half to H. C. Daubenspeck, Massillon, Ohio, and one-half to S. E. Winder, West Medway, Mass. Guide tube operating means for glass feeders. 2,665,525, Jan. 12.

Young, Charles A.: *See*—
Midgley, Eric L., and Young.

Young, Charles J., Princeton, N. J., assignor to Radio Corporation of America. Facsimile scanner having adjustable length of scanning line. 2,666,094, Jan. 12.

Young, Henry B.: *See*—
Garrett, William R., Liljestrand, and Young.

Young, Lester C., Cleveland, Ohio, assignor to Spo, Inc. Roll-over foundry machine. 2,665,462, Jan. 12.

Zehrbach, Edgar L., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Drier apparatus. 2,665,500, Jan. 12.

Zelnick, Charles, assignor to The Lufkin Rule Company, Saginaw, Mich. Micrometer gauge. 2,665,490, Jan. 12.

Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Telegraph printer. 2,666,095, Jan. 12.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 12TH DAY OF JANUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Air-current deflector. W. H. Bohnenblust. Re. 23,773, Jan. 12.
Correlating nuclear properties of atoms and magnetic fields, Method and means for. R. H. Varian. Re. 23,769, Jan. 12.
Electronic trigger. C. A. Bergfors. Re. 23,770, Jan. 12.
Foaming apparatus. G. A. Spencer. Re. 23,772, Jan. 12.
Hydroxy-aromatic alkylene di-imino di-acetic acids and salts. F. C. Bersworth. Re. 23,767, Jan. 12.
Metal ion chelating compounds consisting of monophenyl polyalkylene polyamino polycarboxylic acids and salts. F. C. Bersworth. Re. 23,766, Jan. 12.
Selective solvent extraction of petroleum. J. Q. Cope and W. H. Claussen. Re. 23,768, Jan. 12.
Snowplow. I. Vanvick. Re. 23,771, Jan. 12.
Vacuum neutralization of detergents. A. C. Stoneman. Re. 23,774, Jan. 12.

LIST OF PLANT INVENTIONS

Rose plant. C. C. O'Neal. P. P. 1,240, Jan. 12.
Rose plant. H. C. Swim. P. P. 1,241, Jan. 12.

LIST OF DESIGN INVENTIONS

Air register. N. J. Dovolis. 171,276, Jan. 12.
Bracelet or similar article. M. Boucher. 171,274, Jan. 12.
Can and closure cap therefor, Combined. L. E. Juengling. 171,280, Jan. 12.
Chain for a bracelet or the like, Link. A. Katz. 171,281, Jan. 12.
Fabric, Chenille. R. J. Kinsey. 171,282, Jan. 12.
Hanger device. M. Kramer. 171,283, Jan. 12.
Holder for wax applicator or the like. A. L. Le Febvre and D. M. Small. 171,284, Jan. 12.
Necklace or similar article. M. Boucher. 171,273, Jan. 12.
Pencil sharpener. D. C. Furey. 171,278, Jan. 12.
Rack, Rotatable jewelry display. S. H. Loeb. 171,285, Jan. 12.
Set of chessmen or similar article. H. Ohme. 171,286, Jan. 12.
Stocking. S. C. Dovas. 171,275, Jan. 12.
Swivel joint. D. M. Jackson. 171,279, Jan. 12.
Table mat or similar article, Plastic. N. Forrest. 171,277, Jan. 12.
Tray, Desk. W. J. Bargen. 171,272, Jan. 12.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 12TH DAY OF JANUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adjustable gear. A. Ens. 2,665,569, Jan. 12.
Adjustable loop chain link wrench. A. M. Robertson. 2,665,604, Jan. 12.
Adjusting device. H. M. Cunningham. 2,665,489, Jan. 12.
Aerial mapping. J. E. Henry. 2,665,481, Jan. 12.
Agricultural implement and hitch therefor, Tractor borne. E. V. Bunting. 2,665,622, Jan. 12.
Air brake system tank heater. T. A. Raines. 2,666,126, Jan. 12.
Air circulator. R. W. Smith. 2,665,841, Jan. 12.
Air control mechanism for pneumatic sheet separators. T. A. Ribich. 2,665,907, Jan. 12.
Aircraft control system for operating auxiliary power sources at take-off. W. H. Bancroft, Jr. 2,665,860, Jan. 12.
Aircraft with rotary and fixed wings. P. J. Papadakos. 2,665,859, Jan. 12.
Alkyl acrylate/N-hydrocarbon-substituted acrlyamide/unsaturated tertiary amino compound copolymers. W. E. Catlin. 2,666,044, Jan. 12.
α-halo-ω-trihalopropyl ethers, Producing. J. W. Copenhaver and D. E. Sargent. 2,666,083, Jan. 12.
Aluminum alcoholate, Preparation of. W. A. Rex and R. W. Winkler. 2,666,076, Jan. 12.
Ammonium salts, Substituted. J. W. Bishop. 2,666,034, Jan. 12.
Amplifier for measuring signals having a large variation in level, Vacuum tube. J. L. Leonard. 2,666,098, Jan. 12.
Anchor, Expansible. J. L. Hill. 2,665,597, Jan. 12.
Anchoring device for portable chain sawing machine blades. M. Pennanen. 2,665,719, Jan. 12.
Anilinoisoquinolines and preparing the same. S. B. Davis and S. D. Willson. 2,666,059, Jan. 12.
Annular support for rigid protective hats. D. A. Green and G. H. Delke, Jr. 2,665,422, Jan. 12.
Anode for cathodic protecting systems. W. I. Vallett. 2,666,027, Jan. 12.
Anodic coating of aluminum. O. Schaaber. 2,666,023, Jan. 12.
Antenna. E. J. Ehrbar and R. W. Cronshey. 2,666,138, Jan. 12.
Antistall device. M. L. Smitley. 2,665,891, Jan. 12.
Apparatus for advancing material. H. R. Leypoldt and A. T. Stoddart. 2,665,797, Jan. 12.
Apparatus for automatically centering moving endless belts. E. T. Lorig. 2,665,592, Jan. 12.
Apparatus for coating by thermal vaporization. J. C. Ogle, Jr. 2,665,659, Jan. 12.
Apparatus for controlling the power output of gas turbine plants. W. Traupel. 2,665,548, Jan. 12.
Apparatus for countercurrent contact of fluid materials. T. Ng. 2,665,975, Jan. 12.
Apparatus for determining the direction of underwater targets. F. V. Hunt, O. H. Schuck, C. R. Rutherford, J. L. Hathaway, and A. N. Butz, Jr. 2,666,192, Jan. 12.
Apparatus for manufacture of paper. N. J. Niks. 2,665,615, Jan. 12.
Apparatus for offshore coring. J. R. Gignoux. 2,665,885, Jan. 12.
Apparatus for processing photographic film. C. M. Tuttle and F. M. Brown. 2,665,619, Jan. 12.
Apparatus for seaming plastic sheet material. V. H. Hasselquist. 2,665,737, Jan. 12.
Apparatus for signaling the escape of illuminating gas and other similar combustible gases. G. Menozzi, and V. and B. Ricca. 2,666,105, Jan. 12.
Apparatus for straightening fabric. J. A. Stapleton. 2,665,470, Jan. 12.
Apparatus for the recovery of elemental sulfur in liquid form from gases containing hydrogen sulfide. E. B. Miller. 2,665,974, Jan. 12.
Apparatus for the roasting of ores or the like. A. D. H. L. Fassotte. 2,665,899, Jan. 12.
Apparatus for treating liquids. A. H. Bolleau, C. J. Rayman, and F. S. Board. 2,665,628, Jan. 12.
Apron. A. E. Cody. 2,665,425, Jan. 12.
Archer's bow. W. L. Gaskell. 2,665,679, Jan. 12.
Archery bow, Composite. F. B. Bear. 2,665,678, Jan. 12.
Article crushing apparatus. S. Kawa. 2,665,632, Jan. 12.
Article transfer apparatus. J. H. Brooks. 2,665,814, Jan. 12.
Article transfer apparatus. E. L. Midgley and C. A. Young. 2,665,831, Jan. 12.
Arylethers of glycerol bis-chloralhemiacetal. J. V. Scudi and L. E. Tenenbaum. 2,666,082, Jan. 12.
Attachment for printing slug casting machines. V. A. Johnston. 2,665,800, Jan. 12.
Attractants for cattle feeds. W. E. Baier. 2,665,987, Jan. 12.
Automatic measuring and cutting ply feeder. H. D. Stevens and H. H. Waters. 2,665,757, Jan. 12.
Automatic sample cutter. T. R. Marcell, C. E. Porter, and J. H. Staib. 2,665,585, Jan. 12.
Automatically working electromechanical apparatus for the reduction of vertebral luxations and subluxations. M. Hongueras Torras. 2,665,684, Jan. 12.
Azacycloalkanes and producing them, Substituted. J. Diamond and W. F. Bruce. 2,666,050, Jan. 12.
Baby walker and high chair, Combination. C. Starysky. 2,665,742, Jan. 12.
Back scuttling valve. F. E. O'Neill and M. O. Johnston. 2,665,761, Jan. 12.
Bacon package. F. W. Swanson. 2,665,993, Jan. 12.
Bag: *See*—
Wicker golf bag.
Bags, Making curing. F. T. Hovey. 2,666,007, Jan. 12.
Balance bar for watches. E. Van Haaften. 2,665,546, Jan. 12.
Ball retainer ring for ball bearings. J. Waldherr, Jr. 2,665,958, Jan. 12.
Ball valve. M. Grunt. 2,665,878, Jan. 12.
Balloon construction. F. J. La Mere, K. F. Johnson, and O. C. Winzen. 2,666,006, Jan. 12.
Bar: *See*—
Draught bar.
Barge tow and barges for use as component vessels thereof, Integrated. B. Williamson. 2,665,656, Jan. 12.
Bark-removing drum combined with hydraulic jet. T. N. Busch. 2,665,721, Jan. 12.
Basing machine, Lamp. H. E. Baker and J. H. Brooks. 2,665,894, Jan. 12.
Bat, Table tennis. H. E. Gray. 2,665,908, Jan. 12.
Bathroom unit. B. A. Krenov. 2,665,454, Jan. 12.
Battery for use in extreme climates, Electric storage. E. L. Martin and H. H. Agee. 2,666,091, Jan. 12.
Bayonet, Knee. A. Clemens. 2,665,478, Jan. 12.
Bearing: *See*—
Thrust bearing.
Bearing. L. R. Helm. 2,665,956, Jan. 12.
Beating device for cleaning dust mops. B. T. Insley. 2,665,438, Jan. 12.
Beer can handle. W. G. Moore. 2,665,936, Jan. 12.
Bias generating matrix. J. A. Rajchman, M. H. Mesner, and M. Rosenberg. 2,666,161, Jan. 12.
Biochemical processes for the 11-hydroxylation of steroids. G. Pincus and O. Hechter. 2,666,015, Jan. 12.
Biochemical processes for the oxygenation of steroids. O. Hechter, R. P. Jacobsen, R. Jeanloz, H. Levy, G. Pincus, V. Schenker, and C. W. Marshall. 2,666,016, Jan. 12.
Bis-trichloroethyl benzene phosphonate. C. N. Ferguson. 2,666,078, Jan. 12.
Bit securing device for rotary pavement cutters or the like. C. F. Ball. 2,665,893, Jan. 12.
Block: *See*—
Light directing glass block.
Blow plate seal for core blowing machines. J. Rodgers. 2,665,461, Jan. 12.
Bomb, Fire extinguishing. L. I. Talbot. 2,665,768, Jan. 12.
Bookkeeping device. A. J. Bickel. 2,665,924, Jan. 12.
Bonding resistors in electric furnaces. A. J. Lincoln. 2,666,088, Jan. 12.
Bonnet and sealing structure for valves. D. MacGregor. 2,665,874, Jan. 12.
Bore hole logging, Method and apparatus for. G. Herzog. 2,666,146, Jan. 12.
Bottle, Multiple compartmented. O. Anft. 2,665,816, Jan. 12.
Bottle warmer. A. B. Johnson. 2,666,127, Jan. 12.
Bowl with conical disks having distributing holes, Centrifugal. P. H. Staaff. 2,665,843, Jan. 12.
Box for amusement tickets, Inventory and storage. D. S. McAlister. 2,665,808, Jan. 12.
Box structure, Lined. R. M. Bergstein. 2,665,835, Jan. 12.
Bracket structure, Adjustable. F. A. de Wiess. 2,665,870, Jan. 12.
Brake block cutter. J. Noall. 2,665,527, Jan. 12.

Brake heads, Forged and welded. C. G. Smith and D. A. Best. 2,665,779, Jan. 12.
Brake mechanism. E. G. Mueller. 2,665,778, Jan. 12.
Brake rigging suspension. R. N. Janeway and W. Van Der Sluys. 2,665,776, Jan. 12.
Brake system, Auxiliary hydraulic. S. Joanis. 2,665,777, Jan. 12.
Brush for grooming the hair, Astatic. S. A. Simon and A. H. Orelich. 2,665,443, Jan. 12.
Burner: *See*—
Fuel burner.
Burner and coaxial flame rod assembly. W. H. Ebeltoft. 2,665,749, Jan. 12.
Button feeding mechanism for button sewing machines. L. Eagle. 2,665,651, Jan. 12.
Cabinet: *See*—
Refrigerated cream dispensing cabinet.
Calculating business machine. K. Westinger, E. Altenburger, and O. Hirt. 2,665,844, Jan. 12.
Calibrating apparatus, Pneumatic. A. L. A. Fortier. 2,665,579, Jan. 12.
Camera carrying case and flashbulb holder, Combined photograph. M. Berkman. 2,665,801, Jan. 12.
Camera for taking photographs of body cavities. E. J. Marcouiller. 2,665,617, Jan. 12.
Camera incorporating a rotatable back, Roll-film. R. W. King and E. Berlant. 2,665,620, Jan. 12.
Cap and ash receiver for lighters, Combined. W. E. Jaap. 2,665,803, Jan. 12.
Capping machine. R. B. Bagby. 2,665,832, Jan. 12.
Carbon dioxide, Production of pure. W. K. Lewis and E. R. Gilliland. 2,665,971–2, Jan. 12.
Carbon indicator for film projectors. C. Mingione. 2,665,494, Jan. 12.
Carburetor, Rotary mixer type. A. Rumpler. 2,665,892, Jan. 12.
Card holder. R. J. Lakatos. 2,665,916, Jan. 12.
Card selecting device. C. N. and C. D. Moores. 2,665,694, Jan. 12.
Carrying device for bottle carriers. H. W. Forrer. 2,665,838, Jan. 12.
Carton. R. Guyer. 2,665,837, Jan. 12.
Carton and container, Grease and moistureproof. M. J. Galbraith. 2,665,833, Jan. 12.
Carton closing machine. W. A. Wood. 2,665,532, Jan. 12.
Casing centering device. W. S. Althouse, Jr. 2,665,762, Jan. 12.
Cathode-ray storage tube. F. Cunningham, Jr., and A. G. Emslie. 2,666,137, Jan. 12.
Cellular structure in a plasticized vinyl ester resin, Producing a. E. H. Schwencke. 2,666,036, Jan. 12.
Cement handling means for thermoplastic adhesives. J. Fossa. 2,665,823, Jan. 12.
Centrifugal pump. H. A. Lockhart. 2,665,640, Jan. 12.
Centrifugally engaged clutch. L. W. Birbaum. 2,665,790, Jan. 12.
Chain-links, Producing. G. B. Söderlund. 2,665,547, Jan. 12.
Chair: *See*—
Folding wheel chair.
Charge forming device or carburetor. A. J. Volz and H. G. Tarter. 2,665,671, Jan. 12.
Cheese and preparing the same. S. G. Knight. 2,665,990, Jan. 12.
Chemical method for removing residual sand from metal castings formed in sand-type molds. W. A. Marshall. 2,666,001, Jan. 12.
Chipping machine, Ice. J. J. Shively. 2,665,852, Jan. 12.
Chopper, Food. A. W. Lundell. 2,665,725, Jan. 12.
Chopper, Refrigerated meat. A. W. Lundell. 2,665,724, Jan. 12.
Chromate-sulfite redox-initiated aqueous polymerization of vinyl chloride. G. J. Koch, Jr. 2,666,047, Jan. 12.
Chuck-key holder and safety device for power tools. L. C. Griffin. 2,666,104, Jan. 12.
Circuit: *See*—
Important quantity selecting circuit.
Pulse discriminatory circuit.
Permutation and combination control circuit.
Circuit and apparatus, Ultrahigh-frequency bridge. W. L. Barrow. 2,666,132, Jan. 12.
Circuit breaker. J. G. Jackson. 2,666,114, Jan. 12.
Circuit for operating relays, Transistor trigger. R. L. Trent. 2,665,845, Jan. 12.
Circuit interrupter. W. M. Leeds. 2,666,117, Jan. 12.
Circuit interrupter. L. R. Ludwig, W. M. Leeds, B. P. Baker, and J. M. Cumming. 2,666,118, Jan. 12.
Circuit interrupter, Compressed gas. W. M. Leeds. 2,666,107, Jan. 12.
Clamp: *See*—
Quick action clamp.
Tire chain applying clamp.
Cleaner: *See*—
Underwater air cleaner.
Cleaning apparatus, Venetian blind. L. C. Robinson. 2,665,698, Jan. 12.
Cleaning automobile radiators. H. C. De Hoff. 2,666,000, Jan. 12.
Cleaning device for slicing machine sharpeners. P. M. Sivertsen. 2,665,531, Jan. 12.
Clip: *See*—
Gang paper clip.
Clip for attaching pails to supporting chassis. E. H. Bard. 2,665,922, Jan. 12.
Clock, Desk. C. W. Sheldon. 2,665,542, Jan. 12.
Clock, Electromechanical. O. H. Dicke. 2,665,543, Jan. 12.
Clock, Hour chiming. H. C. Rowe and E. H. Bladh. 2,665,544, Jan. 12.
Closure construction for wall openings. A. Löbl. 2,665,782, Jan. 12.
Closure seal. W. R. Lee. 2,665,459, Jan. 12.
Clutch: *See*—
Centrifugally engaged clutch.
Reversible radial air gap eddy current clutch.
Magnetic clutch.
Splined clutch.
Cluten and brake for paper separator drive mechanisms. T. A. Ribich. 2,665,787, Jan. 12.
Clutch control mechanism. E. E. Prather. 2,665,785, Jan. 12.
Coal feed tube. W. S. Anderson. 2,665,796, Jan. 12.
Coating machine for sheet material. R. L. Richmond and L. A. Roth. 2,665,662, Jan. 12.
Coin control, Combination. M. Caruso. 2,665,791, Jan. 12.
Coke breeze bonded by Portland cement. W. A. Engelhart. 2,665,977, Jan. 12.
Collapsible fishing rod stand. R. G. Goldinger. 2,665,866, Jan. 12.
Color harmony selection system. E. J. B. Miller. 2,665,503, Jan. 12.
Colored reversal images, Producing. A. Rott. 2,665,986, Jan. 12.
Combined line and halftone negatives, Making. F. P. Le Tourneau and H. E. Peterson. 2,665,984, Jan. 12.
Combined smoke simulating and popgun. E. L. Mobley, Jr. 2,665,676, Jan. 12.
Comminuted product and grinding. S. B. Wiczer. 2,665,850, Jan. 12.
Completing multiple production zone well bores, Method and apparatus for. R. O. Childers. 2,665,759, Jan. 12.
Compressor drive and fuel supply for gas turbine power plants. P. P. Newcomb. 2,665,549, Jan. 12.
Conductive patterns of predetermined configuration, Methods and apparatus for making. K. Enslein and F. J. Haskins. 2,666,008, Jan. 12.
Connector: *See*—
Quick acting connector.
Constant speed flow control valve. J. A. Kanuch. 2,665,704, Jan. 12.
Container: *See*—
Load supporting palletized container.
Shielding container.
Tilted container.
Container. N. J. Allbright. 2,665,630, Jan. 12.
Container and closure therefor, Resilient. M. M. Barton. 2,665,945, Jan. 12.
Container closure. J. W. Soffer. 2,665,820, Jan. 12.
Container for glass sheets, Shipping. M. C. Koester. 2,665,804, Jan. 12.
Container for storing and delivering disk records. H. N. Truesdell. 2,665,962, Jan. 12.
Container or vial, Plural-compartment admixing. M. L. Lockhart. 2,665,690, Jan. 12.
Container with removable cover and cover clamping means for securing the cover in place. L. L. Crawford. 2,665,822, Jan. 12.
Contaminating control device. A. A. and R. A. Arvintz and N. A. Arvins. 2,666,148, Jan. 12.
Continuous monolithic hollow member from heat weldable material, Production of a. G. Steffenino. 2,665,735, Jan. 12.
Continuous production of absorbing material, Method and apparatus for. C. A. J. Lindquist. 2,665,450, Jan. 12.
Contrasting colors for type matrices. W. Heinecke. 2,666,002, Jan. 12.
Control apparatus for electrical heating units. W. H. Vogelsberg. 2,666,124, Jan. 12.
Control mechanism for equipment for handling elongated records. B. E. Stone. 2,665,855, Jan. 12.
Control valve. R. R. Crookston and A. L. Seljos. 2,665,713, Jan. 12.
Controller for electric motors and other translating devices. E. W. Seeger. 2,666,175, Jan. 12.
Controlling viscosity of drilling fluids. W. J. Weiss. 2,666,032, Jan. 12.
Conveyer drive shear pin assembly. G. A. Ream. 2,665,570, Jan. 12.
Conveyer misalignment signal. J. W. Hardy. 2,665,793, Jan. 12.
Cooling and drying rubber, Method of and apparatus for. R. R. Meyer and H. E. Lietaert. 2,665,568, Jan. 12.
Copolymer manufacture. J. F. Nelson, R. F. Leary, and L. M. Welch. 2,666,046, Jan. 12.
Copolymers of styrene and chloroprene prepared by cationic catalysis. F. C. Foster. 2,666,045, Jan. 12.
Cord connection, Flatiron. F. W. Carpenter. 2,666,125, Jan. 12.
Corrosion inhibitor. L. T. Gibbs. 2,666,026, Jan. 12.
Cotton fluffer, Rotary. J. D. Rust. 2,665,537, Jan. 12.
Cotton plant guide, Adjustable. J. D. Rust. 2,665,534, Jan. 12.
Cotton stripping comb. J. D. Rust. 2,665,535, Jan. 12.
Counting device, Electronic. P. Gilbert. 2,665,846, Jan. 12.

Counting device, Electronic. D. L. Hollway and A. M. Thompson. 2,666,162, Jan. 12.
Coupling: *See*—
Rotary, turbine-type hydraulic coupling.
Coupling. G. L. Omon and K. E. Hohnl. 2,665,928, Jan. 12.
Coupling device for pipes or conduits. J. Fraser. 2,665,925–6, Jan. 12.
Cover: *See*—
Wheel cover.
Cover having means for removably attaching same. S. A. Lo Vico. 2,665,745, Jan. 12.
Cover seal for washing machines. H. J. Rand. 2,665,574, Jan. 12.
Crankshaft thrust bearing oil seal. W. E. Brill. 2,665,955, Jan. 12.
Crib, Infant's. A. L. Weidt. 2,665,433, Jan. 12.
Crop-handling machine and drive mechanism therefor. T. W. Paul. 2,665,631, Jan. 12.
Crutch. C. K. Thackeray. 2,665,701, Jan. 12.
Crystal tetrode. R. T. Blakely. 2,666,150, Jan. 12.
Cuff link. K. Albrecht. 2,665,465, Jan. 12.
Cultivator attachment. A. Smith and B. D. Baggs, Jr. 2,665,621, Jan. 12.
Cultivator shield, Adjustable. E. R. Gumm. 2,665,994, Jan. 12.
Cutter: *See*—
Automatic sample cutter.
Brake block cutter.
Cutter head. P. Aschwanden and K. Burri. 2,665,472, Jan. 12.
Cyanates of alkalimetals from urea and alkaline nitrites, Preparation of. F. Bucci. 2,665,968, Jan. 12.
Cyanoalkylammonium salts of pentachlorophenol. M. W. Harman. 2,666,079, Jan. 12.
Damper, Thermally controlled fireplace. W. B. Snook. 2,665,683, Jan. 12.
Dart, Magnetic. S. X. Shore. 2,665,911, Jan. 12.
Decorative ceramic articles, Making. J. de Hymel. 2,665,469, Jan. 12.
Deflation indicator for pneumatic tires. J. M. Wilson. 2,666,106, Jan. 12.
Deformable microleak valve. J. J. Hopfield. 2,665,876, Jan. 12.
Defrosting arrangement, Evaporator. C. S. Grimshaw. 2,665,566, Jan. 12.
Defrosting arrangement, Evaporator. R. E. King and H. H. Bixler. 2,665,567, Jan. 12.
Deicer boot applying tool. R. F. Martin. 2,665,884, Jan. 12.
Delay mechanism for tape controlled apparatus. C. W. Swan. 2,665,799, Jan. 12.
Δ^4-pregnenes, Preparing. S. Bernstein, R. Antonucci, and M. D. Heller. 2,666,069, Jan. 12.
Desulfurization and decarburization of iron and iron alloys. F. T. Crego and H. R. Fisher. 2,665,982, Jan. 12.
Detachable shoulder pad. M. V. Jurich. 2,665,429, Jan. 12.
Deveiner, Shrimp. F. L. Schneider and V. Francher. 2,665,449, Jan. 12.
Device for applying liquid to sheets or webs. R. G. Olden. 2,665,660, Jan. 12.
Device for combining the shock-absorbing and limiting action in couplings. C. D. Green. 2,665,903, Jan. 12.
Device for cutting and forming meat patties and the like. D. J. Cesare. 2,665,649, Jan. 12.
Device for moving field sprinkler systems. D. G. Idler. 2,665,941, Jan. 12.
Device for producing internally toothed ring gears and the like. O. Nübling. 2,665,612, Jan. 12.
Device for removing quicksand, silt, or the like from wells. J. M. Green. 2,665,767, Jan. 12.
Device for spinning fish decoys. W. C. Casselman. 2,665,591, Jan. 12.
Device for stretching and shaping spectacle frames. W. B. Heath. 2,665,601, Jan. 12.
Device for unscrewing pipe. R. M. Claypool and D. M. Best. 2,665,888, Jan. 12.
Device for wiping pipe. N. A. Nelson. 2,665,444, Jan. 12.
Dial device, Calling. W. G. Breivogel. 2,666,097, Jan. 12.
Differential adjusting means for pressure sensitive electrical control devices, Fixed. W. E. Brown. 2,666,108, Jan. 12.
Differential and ratio control. R. A. Arthur. 2,665,624, Jan. 12.
Disk seal tube. R. M. Bowie. 2,666,160, Jan. 12.
Dispenser for safety razor blades. Z. Auerbach. 2,665,802, Jan. 12.
Dispensing apparatus, Pressure-operable liquid. E. J. Poitras and J. F. Taplin. 2,665,825, Jan. 12.
Distributors in fluidized solids reactor vessels. C. O. Rhys, Jr. 2,665,976, Jan. 12.
Dizinc salt of hydroxymethane sulfinic acid, Production of the. A. Janson. 2,666,075, Jan. 12.
Door: *See*—
Refrigerator door.
Door check and closer. T. K. Lovejoy. 2,665,447, Jan. 12.
Door construction, Metallic. S. S. Battles and L. H. Moos. 2,665,781, Jan. 12.
Door control mechanism. E. L. Allen and R. I. Schonitzer. 2,665,934, Jan. 12.
Door fastener. W. Patterson. 2,665,935, Jan. 12.
Drafting machine, Perspective. R. W. Barker and C. L. Ash. 2,665,486, Jan. 12.
Draught bar. R. W. Allen. 2,665,902, Jan. 12.
Drier: *See*—
Hair drier.
Drier apparatus. E. L. Zehrbach. 2,665,500, Jan. 12.
Drilling wells, Method and apparatus for. W. H. Ellis. 2,665,886, Jan. 12.
Drive mechanism for washing machines and the like. G. I. Cockerill and W. F. Sindelar. 2,665,575, Jan. 12.
Dusting tool. M. H. Gregory. 2,665,446, Jan. 12.
Dynamic displacement meter. C. H. Kean. 2,665,581, Jan. 12.
Ear-handling means for cornhusking mechanisms. W. E. Shavens. 2,665,695, Jan. 12.
Echo ranging and sounding system. D. H. Ransom, Jr. 2,666,190, Jan. 12.
Edge aligning or locating device and method. L. Freimark. 2,665,492, Jan. 12.
Effecting gear-change operations in variable speed power transmission mechanisms, Means for. J. F. Alcock. 2,665,786, Jan. 12.
Egg holder. H. N. Lochead. 2,665,571, Jan. 12.
Electric appliance stand. C. A. Crawford and J. F. Frazier. 2,666,128, Jan. 12.
Electric contact device, preferably for relays. H. Kuhnke. 2,666,113, Jan. 12.
Electric projection lamp. D. P. Cooper, Jr. 2,666,158, Jan. 12.
Electric terminal block assembly. A. G. Cook. 2,666,189, Jan. 12.
Electrical actuation means for valves or the like. R. C. Churchman. 2,666,167, Jan. 12.
Electrical indicator. M. Petroff. 2,666,180, Jan. 12.
Electrode for chromium plating. L. G. De Quasie and R. E. Kochs. 2,666,029, Jan. 12.
Electrode system. R. W. Bradley. 2,666,130, Jan. 12.
Electrolytic cell for the electrolysis of brine. C. C. Silsby, Jr. 2,666,028, Jan. 12.
Electron device with long electron path. A. M. Clogston. 2,666,163, Jan. 12.
Electronic conductivity meter. K. Albrecht. 2,666,164, Jan. 12.
Electronic transducer tube. G. L. Krieger. 2,666,200, Jan. 12.
Electroradiography. R. M. Schaffert, R. C. McMaster, and W. E. Bixby. 2,666,144, Jan. 12.
Electrostatic precipitator. E. L. Richardson. 2,665,770, Jan. 12.
Elevator inductor switch. H. Berkovitz. 2,666,110, Jan. 12.
Elevator inductor switch. C. Savage. 2,666,111, Jan. 12.
11α-hydroxyprogesterone and esters thereof. H. C. Murray and D. H. Peterson. 2,666,070, Jan. 12.
11α-hydroxy-17α-progesterone and esters thereof. H. C. Murray and D. H. Peterson. 2,666,071, Jan. 12.
End sheet machine. W. B. Hildmann. 2,665,435, Jan. 12.
Engine. P. C. Ward. 2,665,668, Jan. 12.
Engine starter apparatus. S. Gilbert. 2,665,586, Jan. 12.
Ereaser, Finger mounted. G. E. Hooper. 2,665,666, Jan. 12.
Ethylenediamine salts of cyclopentanopolyhydrophenanthrene-3-monosulfates. R. B. Hasbrouck. 2,666,066, Jan. 12.
Expansion closure plug. W. F. Borges and V. W. Goss. 2,665,818, Jan. 12.
Eye shield. H. B. Weber. 2,665,423, Jan. 12.
Facsimile scanner having adjustable length of scanning line. C. J. Young. 2,666,094, Jan. 12.
Fan with adjustable inlet for secondary air. E. M. Powell. 2,665,840, Jan. 12.
Farm gate. S. Swanson. 2,665,508, Jan. 12.
Fastener: *See*—
Door fastener.
Fastening device. G. P. Bosomworth and S. M. Clark. 2,665,467, Jan. 12.
Fastening means for corrugated sheet material. A. B. Hammitt and H. L. Birum, Jr. 2,665,780, Jan. 12.
Feed mechanism and control for continuous stock material, G. A. Lyon. 2,665,654, Jan. 12.
Feeder: *See*—
Automatic measuring and cutting ply feeder.
Fiber blending apparatus. J. H. Senior and H. B. Riehl. 2,665,453, Jan. 12.
Filing and record keeping equipment, Exposed. N. J. Spindler and C. O. Peterson. 2,665,741, Jan. 12.
Filling end parting mechanism for looms. J. E. Smith. 2,665,717, Jan. 12.
Film viewer. W. M. Clark. 2,665,608, Jan. 12.
Filter: *See*—
Percolation filter.
Well pump gas and sand control filter.
Well pump filter.
Filter aid, High flow rate mineral. A. R. Bollaert and E. L. Neu. 2,665,813, Jan. 12.
Filter device, Liquid. V. S. Crane. 2,665,812, Jan. 12.
Filter element, Flow control. J. E. Whipple. 2,665,810, Jan. 12.
Fish lure. A. A. Frantello. 2,665,515, Jan. 12.
Fish lure. W. M. James. 2,665,514, Jan. 12.
Fish lure. J. J. Sullivan, L. H. Martell, and W. H. Ingersoll. 2,665,512, Jan. 12.
Fish lure, Artificial. L. W. Shahan. 2,665,513, Jan. 12.
Fish lure, Spiral. M. W. Race. 2,665,516, Jan. 12.
Fishing lure. L. L. Bradberry. 2,665,511, Jan. 12.
Flow beam, Adjustable. M. O. Johnston and H. C. Skipper. 2,665,758, Jan. 12.

Fluid cooling system. A. B. Hubbard. 2,665,560, Jan. 12.
Fluid motor valve. A. S. Parks. 2,665,711, Jan. 12.
Fluid-permeable article and making the same. A. L. Causley. 2,665,960, Jan. 12.
Fluid pressure control apparatus. E. F. Stover. 2,665,707, Jan. 12.
Folding wheel chair. D. L. Cosper. 2,665,743, Jan. 12.
Food flavoring. M. A. Searle. 2,665,988, Jan. 12.
Foot support and making. J. Baer. 2,665,505, Jan. 12.
Forceps, Suturing. F. A. L'Esperance. 2,665,692, Jan. 12.
Foundry machine, Roll-over. L. C. Young. 2,665,462, Jan. 12.
Frame for implement supporting carts, Vertically adjustable. J. A. White, Jr. 2,665,920, Jan. 12.
Frequency control apparatus. E. O. Keizer. 2,666,182, Jan. 12.
Frequency multiplier. W. Krämer. 2,666,178, Jan. 12.
Frequency station calling system using bifurcated piezoelectric elements. T. G. Kinsley and W. P. Mason. 2,666,196, Jan. 12.
Frequency synchronizing apparatus. M. M. Carpenter, Jr. 2,666,136, Jan. 12.
Fuel burner. F. H. Cornelius. 2,665,748, Jan. 12.
Fuel oil compositions. R. D. and R. A. Stayner. 2,665,978, Jan. 12.
Furniture unit, Combination dining. S. Wallack. 2,665,963, Jan. 12.
Game board with magnetized spherical game pieces, Magnetic. M. P. Juran. 2,665,912, Jan. 12.
Game, Simulated baseball. H. P. Hutchins. 2,665,910, Jan. 12.
Gaming device. W. Steig. 2,665,915, Jan. 12.
Gang paper clip. J. J. Aurynger. 2,665,463, Jan. 12.
Garbage can stand. P. A. Schmidt. 2,665,868, Jan. 12.
Garment, Foundation. G. A. Barcley. 2,665,424, Jan. 12.
Garment, Protective. R. G. Schmidt. 2,665,426, Jan. 12.
Gate: *See*—
  Farm gate.
Gauge: *See*—
  Internal comparative gauge.
  Micrometer gauge.
  Micrometer thread gauge.
  Mandible positioning gauge.
  Pressure gauge.
Gauge. L. R. Pistoles. 2,665,495, Jan. 12.
Gauge line holder. A. J. Mastrella. 2,665,487, Jan. 12.
Gear: *See*—
  Adjustable gear.
Gear pump. J. A. Lauck. 2,665,638, Jan. 12.
Gearless drive for speed and distance recording instruments. D. C. Mollenhour. 2,665,897, Jan. 12.
Generation of carbon monoxide. C. R. Carkeek. 2,665,980, Jan. 12.
Generator: *See*—
  Robot cloud seeding generator.
Generator with variable propeller and governing means therefor, Electric. C. Fumagalli. 2,666,149, Jan. 12.
Getter structure, Sorption type. R. I. Reed. 2,666,159, Jan. 12.
Golf putter. P. L. Wilson. 2,665,909, Jan. 12.
Golfer's accessory. A. W. Fowler. 2,665,830, Jan. 12.
Grapple. C. J. Reigh. 2,665,937, Jan. 12.
Grinder, Garbage. R. W. Strehlow. 2,665,851, Jan. 12.
Grinding machine. A. Kusak and A. Wesstrom. 2,665,529, Jan. 12.
Grinding machine, Automatic. J. F. Pelton. 2,665,526, Jan. 12.
Guide for slicing machines. A. W. Lundell. 2,665,726, Jan. 12.
Guide tube operating means for glass feeders. H. A. Youkers and W. V. Vierling. 2,665,525, Jan. 12.
Hair drier. A. L. Jones. 2,665,501, Jan. 12.
Hair trimmer device. L. W. Leonard. 2,665,476, Jan. 12.
Halogenation and oxidation of steroids. A. R. Hanze and R. H. Levin. 2,666,072, Jan. 12.
Halogenation of steroids. A. R. Hanze and R. H. Levin. 2,666,068, Jan. 12.
Hammer, Spring. I. Pirkner. 2,665,600, Jan. 12.
Hamper. H. Weintraub and C. Fuerst. 2,665,842, Jan. 12.
Handbag or the like, Lady's. S. Hyman. 2,665,728, Jan. 12.
Handle: *See*—
  Beer can handle.
Handling sheets and forming decorated caps. E. A. Wilckens. 2,665,473, Jan. 12.
Hanger: *See*—
  Seal hanger.
Hanger and spacer bracket. M. L. Samuels. 2,665,869, Jan. 12.
Hanger for dresses and other garments. D. Jacob. 2,665,828, Jan. 12.
Hanger guard, Garment. H. B. Tillery. 2,665,829, Jan. 12.
Harvester, Beet. V. F. Bozeman, Sr., C. W. Walz, R. D. Griff, and H. F. Clausen. 2,665,533, Jan. 12.
Harvester, Corn. N. F. Andrews. 2,665,538, Jan. 12.
Headlight apparatus, Self-aligning dual purpose warning. F. X. Keegan. 2,666,193, Jan. 12.
Heat exchanger. A. Huet. 2,665,889, Jan. 12.
Heat-sealing apparatus for joining thermoplastic members. N. H. Caskin. 2,665,738, Jan. 12.
Heat stabilization of vinylidene chloride resins. C. E. Best. 2,666,040, Jan. 12.
Heater: *See*—
  Air brake system tank heater.
Heater for spark plugs. L. C. Coughlin. 2,665,672, Jan. 12.
Heating unit, Instantaneous coating material. C. B. Lansing and E. G. Hart. 2,665,944, Jan. 12.
Hemispherical radiometer sensing unit. J. T. Gier and R. V. Dunkle. 2,666,089, Jan. 12.
Highly refractory bodies, Preparing. I. E. Campbell, B. W. Gonser, and C. F. Powell. 2,665,997–8, Jan. 12.
Highly refractory body. I. E. Campbell, B. W. Gonser, and C. F. Powell. 2,665,475, Jan. 12.
Highly refractory molybdenum alloys. E. A. Beidler and I. E. Campbell. 2,665,474, Jan. 12.
Hinge, Self-locking. M. J. De Leonardis. 2,665,448, Jan. 12.
Hinged member restraining means. C. A. Morgan. 2,665,466, Jan. 12.
Holder: *See*—
  Card holder.
  Egg holder.
  Gauge line holder.
  Invisible shirt holder.
  Mixing bowl holder.
  Outlet box holder.
  Tail stock indicator holder.
Holder and dispenser means for containers for semifluids and fluids, Combined. M. H. Anderson. 2,665,824, Jan. 12.
Holding device for fish lures. H. Archer. 2,665,517, Jan. 12.
Hot cap for plants, Protective. D. G. Hardman. 2,665,523, Jan. 12.
Hydraulic lash adjuster. L. B. Ellis. 2,665,669, Jan. 12.
Hydraulic mechanism. G. R. C. Martinsson. 2,665,555, Jan. 12.
Hydraulic power control system. E. A. Rockwell. 2,665,554, Jan. 12.
Hydraulic valve lifter. H. E. Adkins. 2,665,670, Jan. 12.
Hydrocarbon process for reducing the pour point of a topped crude oil. P. H. Johnson. 2,666,022, Jan. 12.
Hydrogenation of carbon monoxide. H. G. McGrath. 2,666,077, Jan. 12.
Hydrous calcium silicates and preparation. G. L. Kalousek. 2,665,996, Jan. 12.
Ice-skating rink. R. J. Yocum. 2,665,561, Jan. 12.
Important quantity selecting circuit. O. M. Salati. 2,666,152, Jan. 12.
Impregnation. R. P. Koehring. 2,665,999, Jan. 12.
Indexing mechanism. J. J. Rusher. 2,665,589, Jan. 12.
Indicator: *See*—
  Electrical indicator.
  Surface test indicator.
  Wind speed and direction indicator.
Inert gas shielded magnetic field controlled electric arc metal working process and apparatus. J. L. Curtin and D. M. Yennl. 2,666,122, Jan. 12.
In-line valve. W. O. Backman and D. M. Redmon. 2,665,873, Jan. 12.
Insolubilizing spun protein filamentary products. R. H. K. Thomson. 2,665,966, Jan. 12.
Interlocking sheet metal and attachment nut construction. J. T. Trumble. 2,665,730, Jan. 12.
Internal comparative gauge. R. J. Wynne. 2,665,496, Jan. 12.
Invisible shirt holder. H. M. Rodney. 2,665,464, Jan. 12.
Iron dehydrogenation catalysts, Preparation of. E. W. Pitzer. 2,666,086, Jan. 12.
Ironing board supporting structure. C. T. Gilbert. 2,665,507, Jan. 12.
Isobaric override control. J. M. Kemper. 2,665,623, Jan. 12.
Isomerization of dichlorobenzenes. J. T. Fitzpatrick. 2,666,085, Jan. 12.
Jar and key seat reamer, Combination. L. L. Shelton. 2,665,887, Jan. 12.
Jaw meshing device. C. S. Metsger and S. Gilbert. 2,665,674, Jan. 12.
Joint for colateral superimposed tubular members. P. D. Becker. 2,665,927, Jan. 12.
Key, Can opening. W. I. Colvin. 2,665,821, Jan. 12.
Lacing apparatus. J. C. Macy and J. J. Kusiv. 2,665,652, Jan. 12.
Lamp: *See*—
  Electric projection lamp.
Lamp with current bridge, Electric. S. G. Öhlund. 2,666,166, Jan. 12.
Lasting machine. B. Jorgensen. 2,665,436, Jan. 12.
Latch structure for vertically slidable doors, Lockable. C. C. Moler. 2,665,932, Jan. 12.
Latching mechanism, Door. R. W. Hardwick. 2,665,933, Jan. 12.
Launching device, Projectile. S. A. Temple. 2,665,421, Jan. 12.
Laundering machine, Domestic. B. R. Thiele. 2,665,576, Jan. 12.
Lawn edge trimmer. A. T. Dudley. 2,665,540, Jan. 12.
Lawn mower, Rotating reel type. H. P. Cawood. 2,665,539, Jan. 12.
Level, Mechanic hand. W. C. Lewis. 2,665,485, Jan. 12.
Lifter: *See*—
  Hydraulic valve lifter.
Light baffle structure for photographic cameras. R. Heidecke. 2,665,618, Jan. 12.

Light directing glass block. W. Harrison. 2,665,610, Jan. 12.
Light for emergency vehicles, Warning. A. C. Heehler. 2,666,194, Jan. 12.
Light-sensitive diazo compounds and photoprint material prepared therefrom. O. Sus. 2,665,985, Jan. 12.
Lighter, Pyrophoric. M. M. Spitalny. 2,665,572, Jan. 12.
Lighter using gaseous fuel. M. M. Spitalny. 2,665,573, Jan. 12.
Line binder. J. B. McDonald. 2,665,867, Jan. 12.
Line lubricator. D. W. Osmun. 2,665,773, Jan. 12.
Lipstick applicator and sharpener, Combination. A. E. Weis. 2,665,696, Jan. 12.
Liquid inlet and antiback-siphoning fixture. F. D. Low. 2,665,700, Jan. 12.
Liquid level control. L. T. Cookson. 2,666,109, Jan. 12.
Liquid treating apparatus. F. H. Dexter. 2,665,559, Jan. 12.
Lithium soap grease containing methacrylate ester polymer for bearing noise suppression. J. P. Dilworth, W. J. Finn, and O. P. Puryear. 2,666,033, Jan. 12.
Load responsive pressure regulating valve. C. E. Deardorff. 2,665,552, Jan. 12.
Load supporting palletized container. L. J. Budd. 2,665,807, Jan. 12.
Lock: *See*—
  Step-by-step operated combination lock.
Locking means, Eccentric ring. C. F. Stanley. 2,665,930, Jan. 12.
Lockwasher having movement limiting means, Split. S. L. Terry. 2,665,729, Jan. 12.
Locomotive fresh water system. R. Walsh. 2,665,705, Jan. 12.
Loss measurement in two-way electrical transmission systems. A. L. Bonner. 2,666,099, Jan. 12.
Louver, Lighting. K. B. Lacy. 2,665,784, Jan. 12.
Lubricant seal. J. J. Glander. 2,665,957, Jan. 12.
Lubricant separating system for refrigerating machines. W. E. Dodson. 2,665,557, Jan. 12.
Lubricating means, Piston. E. W. Patterson. 2,665,774, Jan. 12.
Lubricating system for units operated by compressed air. E. W. Patterson. 2,665,901, Jan. 12.
Lubricator: *See*—
  Line lubricator.
Luminescent crystalline bodies. W. G. Eversole, B. O'Brien, and R. H. Gillette. 2,666,145, Jan. 12.
Machine for disintegrating and removing ice to form navigation channels. G. R. Brown and K. R. Larson. 2,665,655, Jan. 12.
Machine for forming shoe quarters. A. E. Diessel. 2,665,437, Jan. 12.
Machine for making cord from twisted web material. G. E. Nordstrom. 2,665,541, Jan. 12.
Machine for manufacturing hollow bodies from thermoplastic shell members. C. V. Carlson and W. E. Schober. 2,665,739, Jan. 12.
Machine for manufacturing metal reinforced binding tape. B. Boersma and J. S. Robinson. 2,665,736, Jan. 12.
Machine for slicing corn kernels. J. R. and G. W. Urschel. 2,665,723, Jan. 12.
Magnetic clutch. W. H. Ingersoll. 2,665,789, Jan. 12.
Magnetic playing pieces. L. Hlavac. 2,665,913, Jan. 12.
Magnetically controlled switch. C. L. Nelson. 2,666,112, Jan. 12.
Maintenance device. J. F. Deffenbaugh. 2,665,530, Jan. 12.
Making glass articles, Process and apparatus for. R. Brown. 2,665,524, Jan. 12.
Mandible positioning gauge. H. S. Tobey. 2,665,488, Jan. 12.
Manifold for bringing in wells, Pressure dissipating. J. F. Hulsey. 2,665,760, Jan. 12.
Mantle for continuous electrodes. F. C. E. Johansson and M. G. G. Tiberg. 2,666,087, Jan. 12.
Manufacture and construction of electrical coils. L. Lorant. 2,666,168, Jan. 12.
Manufacture of composite articles, Apparatus and method for. A. A. Johnson. 2,665,451, Jan. 12.
Manufacturing boxes. T. Jungmayr. 2,665,616, Jan. 12.
Marker for trouser cuffs. J. Sabatini. 2,665,483, Jan. 12.
Mask, Face. E. E. Wood and W. A. Hafferty. 2,665,686, Jan. 12.
Material cutting device. B. W. Blackman. 2,666,123, Jan. 12.
Measuring apparatus. T. Slonczewski. 2,666,100, Jan. 12.
Measuring instruments, Sextant and other angle. P. F. Everitt and J. Keeble. 2,665,484, Jan. 12.
Mechanical rectifier. F. Koppelmann. 2,666,102, Jan. 12.
Mechanized merchandising system. C. Smith. 2,665,775, Jan. 12.
Mercaptohydantoins. J. J. Spurlock. 2,666,063, Jan. 12.
Metallic powders. C. Marquaire. 2,665,981, Jan. 12.
Meter: *See*—
  Dynamic displacement meter.
  Electronic conductivity meter.
Method and mechanism for filling control in shuttleless looms. W. J. Budzyna and M. R. Flamand. 2,665,716, Jan. 12.
Micrometer gauge. C. Zelnick. 2,665,490, Jan. 12.
Micrometer thread gauge. F. W. Henslee. 2,665,491, Jan. 12.
Microwave attenuator. S. G. Sydoriak. 2,666,184, Jan. 12.
Milk protein food product and process. H. W. Howard, R. J. Block, and H. E. Sevall. 2,665,989, Jan. 12.
Milker, Suspended. E. Rawson. 2,665,663, Jan. 12.
Mining and loading machine. J. J. Slomer. 2,665,794, Jan. 12.
Mirror supporting mount and securing means. C. E. Smith. 2,665,611, Jan. 12.
Mixer: *See*—
  Powder mixer.
  Waveguide mixer.
Mixing bowl holder. L. I. De Witt. 2,665,872, Jan. 12.
Mold: *See*—
  Steel banded aluminum mold.
Mophead having dual working surfaces. W. B. Goon. 2,665,441, Jan. 12.
Motor: *See*—
  Reciprocatory electric motor.
  Synchronous motor.
Motor braking system, Electric. D. W. Fath. 2,666,176, Jan. 12.
Motor control system with reduced cross-dependence of control effects, Electric. A. J. Williams, Jr. and R. E. Watson. 2,666,171, Jan. 12.
Motor follow-up system for the adjustment of liquid levels, Electric. V. Génini and M. Lataple. 2,666,172, Jan. 12.
Motor follow-up system, Plural electric. J. R. Jarvis. 2,666,169, Jan. 12.
Motor positioned according to time-temperature schedule, Electric. R. C. Davis and H. H. Deist. 2,666,173, Jan. 12.
Motor vehicle seat. A. Rappl. 2,665,740, Jan. 12.
Mounting: *See*—
  Preloaded rubber mounting.
Mounting blades on hand implements, Means for. G. L. Saunders. 2,665,434, Jan. 12.
Mounting for carding machine cylinder shafts and the like. G. G. Sherrill. 2,665,954, Jan. 12.
N-acyl derivatives of iminodibenzyl. F. Häfliger and W. Schindler. 2,666,051, Jan. 12.
N¹-acylated aminoarylsulfonamides, Manufacture of. J. Matzke. 2,666,073, Jan. 12.
Nail pulling attachment for hammers. M. B. Bornus. 2,665,882, Jan. 12.
Needle assembly and producing said assembly. W. F. Butler. 2,665,689, Jan. 12.
Nose drops. E. A. Ferguson, Jr. 2,666,012, Jan. 12.
Novelty animal spool support. M. K. Barlow. 2,665,858, Jan. 12.
Nozzle, Spray. A. E. Broughton. 2,665,946, Jan. 12.
Nutrient media containing antifoaming agents. H. V. Moss and R. E. Morse. 2,666,017, Jan. 12.
1,3-bisaminoalkyl-3-phenyl-2,5-dioxo-pyrrolidines. E. Sury and K. Hoffmann. 2,666,060, Jan. 12.
1-isonicotinyl-2,2-disubstituted hydrazines. H. H. Fox. 2,666,053, Jan. 12.
1-thiocarbamyl-4-heterocyclic piperazines. E. A. Conroy. 2,666,055, Jan 12
Optical bleaching agents containing two 1:2:3-triazole rings. E. Brunner and F. W. Hindes. 2,666,062, Jan. 12.
Orthodontic device. J. E. Johnson. 2,665,480, Jan. 12.
Oscillator, Beat frequency. M. Wallace. 2,666,140, Jan. 12
Oscillator, Semiconductor relaxation. R. O. Endres. 2,666,139, Jan. 12.
Oscillator, Tunable magnetron. F. Hutchinson. 2,666,165, Jan. 12.
Outlet box holder. A. P. Bell. 2,665,865, Jan. 12.
Oven, Knockdown barbecue. J. L. Eastep. 2,665,682, Jan. 12.
Overarm deflection compensator. H. Horlacher. 2,665,613, Jan. 12.
Oxidation and chlorine recovery process. F. S. Low and C. P. Roberts. 2,665,024, Jan. 12.
Packing cords, especially adapted to function as a sealing gasket for drums, pails, and barrels, in which lard and other shortenings are confined for shipment. O. M. Norehad. 2,666,005, Jan. 12.
Pad: *See*—
  Detachable shoulder pad.
Pad for animal stalls. L. L. Benjamin. 2,665,664, Jan. 12.
Pan structure, Crisper. H. W. Whitmore. 2,665,817, Jan. 12.
Panel brander. D. L. Schubert. 2,665,633, Jan. 12.
Parachute with delayed landing-speed. A. Muther. 2,665,863, Jan. 12.
Paste applicator for paper bag sleeves. R. F. Searle. 2,665,661, Jan. 12.
Patient transferring device. A. A. Butler. 2,665,432, Jan. 12.
Pendulum and acceleration compensation apparatus. R. T. Cloud. 2,665,499, Jan. 12.
Percolation filter. R. E. Turkleson and B. J. Showalter. 2,665,811, Jan. 12.
Permutation and combination control circuit. F. G. Nicolaus. 2,665,914, Jan. 12.
Phase modulation system. E. P. Courtillot. 2,666,181, Jan. 12.
Pickup arm for phonographs. D. J. Baker. 2,665,919, Jan. 12.
Pilot for mobile craft, Automatic. A. M. MacCallum and C. M. Perkins, Sr. 2,665,861, Jan. 12.
Pipe cleaning tool. V. S. Harlin. 2,665,766, Jan. 12.

Pipe loading device for trucks and the like. C. G. Blight. 2,665,815, Jan. 12.
Plaiting machine. S. Michlin. 2,665,827, Jan. 12.
Planetary movement. N. E. Klein. 2,666,188, Jan. 12.
Plastic masses, Production of. C. W. Vogt. 2,665,648, Jan. 12.
Platform, Ladder. W. R. Edwards. 2,665,952, Jan. 12.
Plow and distributor, Ballast. R. Kershaw. 2,665,506, Jan. 12.
Plug: *See*—
Expansion closure plug.
Plumb bob, Electro. E. C. Mitchell. 2,665,498, Jan. 12.
Plunger, Shorting. W. F. Williams and E. N. Phillips. 2,666,186, Jan. 12.
Pole, Clothes. A. R. Heath. 2,665,871, Jan. 12.
Pole, Insulated. R. C. Parkes. 2,665,502, Jan. 12.
Polisher having upper and lower casing sections, Motor-driven. P. J. More. 2,665,439, Jan. 12.
Polymerizing vinyl-type compounds by irradiation. K. Nozaki. 2,666,025, Jan. 12.
Positional reference device. M. E. Bates. 2,665,497, Jan. 12.
Powder mixer. A. L. Hall. 2,665,890, Jan. 12.
Power-driven tool. M. Roman. 2,665,599, Jan. 12.
Power transmitting mechanism. I. H. Williams and R. K. Super. 2,665,593, Jan. 12.
Preassembled marker and preassembling the same. B. B. Mitchell. 2,665,510, Jan. 12.
Precipitation of vanadium oxides. J. Halpern and F. A. Forward. 2,665,970, Jan. 12.
Preloaded rubber mounting. M. Mooney. 2,665,864, Jan. 12.
Pressure booster regulator. R. Ostwald. 2,665,839, Jan. 12.
Pressure fluid operated by-pass and relief valve. E. I. Ghormley. 2,665,708, Jan. 12.
Pressure gauge. E. F. Bacon. 2,665,584, Jan. 12.
Pressure sealed valve. D. MacGregor. 2,665,877, Jan. 12.
Primary halides, Production of. K. D. Detling, H. S. Knight, and G. T. Williamson. 2,666,084, Jan. 12.
Printer, Telegraph. W. J. Zenner. 2,666,095, Jan. 12.
Printing apparatus, Stencil. S. M. Schwartz and D. Gross. 2,665,634, Jan. 12.
Producing transparent polystyrene sheets. J. O. Beattie. 2,665,452, Jan. 12.
Projecting kaleidoscopic mechanism for creating and projecting designs. O. J. Gilluly. 2,665,609, Jan. 12.
Protection of cellulose fiber against heat aging and tire casing containing such fiber. H. M. Buckwalter. 2,665,734, Jan. 12.
Protein hydrolizate from potatoes and potato waste, Producing. P. A. Xander. 2,666,080, Jan. 12.
Protein, Manufacturing. S. Rowe. 2,666,049, Jan. 12.
Protractor. A. J. Rupp. 2,665,482, Jan. 12.
Pruritus therapy. E. A. Ferguson, Jr. 2,666,013, Jan. 12.
Pulsator. E. Rawson. 2,665,702, Jan. 12.
Pulsator, Pneumatic. S. J. Erling. 2,665,703, Jan. 12.
Pulse discriminatory circuit. L. E. Barton. 2,666,135, Jan. 12.
Pump: *See*—
Centrifugal pump.
Gear pump.
Reversible gear pump.
Rotary pump.
Pump filter attachment, Well. H. M. Greene. 2,665,643, Jan. 12.
Pump, pressure loaded, with differential valve. J. A. Lauck. 2,665,641, Jan. 12.
Pump structure. E. J. Svenson. 2,665,639, Jan. 12.
Pumping system. J. A. Lauck. 2,665,637, Jan. 12.
Pumping system control for washing machines. W. R. Garrett, W. E. Liljestrand, and H. B. Young. 2,665,646, Jan. 12.
Pumping unit, Fluid pressure actuated. H. Harvey. 2,665,550, Jan. 12.
Pumping unit, Hydraulic. R. L. Chenault. 2,665,551, Jan. 12.
Purification of aluminum sulfate liquors. R. V. Townend and H. Q. Trout. 2,665,969, Jan. 12.
Purifying perchloromethylmercaptan. J. W. Churchill. 2,666,081, Jan. 12.
Pyrazines and preparing the same, Substituted. S. R. Safir. 2,666,054, Jan. 12.
Pyridoxal phosphate, Preparing. S. A. Harris and A. N. Wilson. 2,666,061, Jan. 12.
Quaternary ammonium germicidal compositions. R. D. Stayner. 2,666,010, Jan. 12.
Quaternary ammonium germicide compositions. R. D. Stayner. 2,666,009, Jan. 12.
Quick acting connector. C. R. Vegren. 2,665,931, Jan. 12.
Quick action clamp. R. W. Hardy. 2,665,598, Jan. 12.
Radar system, Synchrometric. M. Wallace. 2,666,198, Jan. 12.
Radiation detector. C. H. Gleason. 2,666,157, Jan. 12.
Radio direction maintaining system. R. F. Rothschild. 2,666,199, Jan. 12.
Radius dresser. H. H. Gotberg. 2,665,680, Jan. 12.
Range apparatus. C. A. Wilcox. 2,665,458, Jan. 12.
Rate and reset rebalanceable control system. E. T. Davis. 2,666,170, Jan. 12.
Razor, Safety. G. T. Randol. 2,665,477, Jan. 12.
Reciprocatory electric motor. H. L. McHenry and L. C. Parker. 2,666,153, Jan. 12.
Record changer, Phonograph. E. L. Hoffmann and R. A. Nelson. 2,665,917, Jan. 12.
Record storage and player apparatus. W. Jameson. 2,665,918, Jan. 12.
Recorder, Cloud-data. C. A. Blakeslee and A. W. Jacobson. 2,665,607, Jan. 12.
Recording instrument. G. Olah and H. A. Smith. 2,665,964, Jan. 12.
Recovering propane and heavier hydrocarbons. F. W. Winn and L. R. Steffens. 2,666,019, Jan. 12.
Reducing-sugar modified aniline-phenol-formaldehyde resins. A. P. Ingrassia. 2,666,037, Jan. 12.
Reel: *See*—
Spinning type fishing reel.
Refining fatty oils. F. S. Sadler. 2,666,074, Jan. 12.
Reforming gaseous hydrocarbons. J. H. Taussig, Jr. 2,665,979, Jan. 12.
Refrigerated cream dispensing cabinet. R. W. Walker. 2,665,563, Jan. 12.
Refrigeration system, Two-temperature. M. E. Fiene. 2,665,558, Jan. 12.
Refrigerator construction having air and water vapor circulating means. A. J. Pedigo. 2,665,562, Jan. 12.
Refrigerator door. E. T. Morton. 2,665,456, Jan. 12.
Refrigerator, Under counter. A. G. Janos and J. B. Horvay. 2,665,564, Jan. 12.
Regulator: *See*—
Pressure booster regulator.
Water flow regulator.
Removing condensible fluids from gaseous streams, Method and apparatus for. J. P. Walker and C. O. Glasgow. 2,665,769, Jan. 12.
Retrievable subsurface well tool. R. C. Baker. 2,665,764, Jan. 12.
Reversible gear pump. J. A. Lauck and J. A. Compton. 2,665,636, Jan. 12.
Reversible radial air gap eddy current clutch. A. S. Gutman. 2,666,154, Jan. 12.
Riboflavin, Producing. J. M. Van Lanen, K. L. Smiley, and L. Stone. 2,666,014, Jan. 12.
Rinser, Tumbler. S. S. Starcevich. 2,665,440, Jan. 12.
Roadbed simulating attachment for railroad tracks. R. E. Smith and M. H. Romer. 2,665,848, Jan. 12.
Roadbed simulating attachment for toy railroad tracks, Perforate. R. D. Smith. 2,665,849, Jan. 12.
Robot cloud seeding generator. P. B. MacCready, Jr. 2,665,940, Jan. 12.
Rotary pump. H. E. De Ment and H. L. Wisnasky. 2,665,642, Jan. 12.
Rotary, turbine-type hydraulic coupling. W. R. Foster and H. K. Wethe. 2,665,553, Jan. 12.
Rust inhibiting composition. J. W. Bishop. 2,665,995, Jan. 12.
Safety poison-feeding device for ants and the like. A. Weil. 2,665,518, Jan. 12.
Saw assembly, Dado. J. W. Edgemond, Jr. 2,665,722, Jan. 12.
Sawmill log loader and turner. A. H. Tangemann. 2,665,720, Jan. 12.
Scaffold having safety lock, Knockdown. C. F. Maroney, D. I. Weisz, and R. W. McGrew. 2,665,953, Jan. 12.
Scaffold unit, Portable. W. J. S. Johnson. 2,665,950, Jan. 12.
Scaffolding. J. S. Bobst. 2,665,951, Jan. 12.
Scalloping device. E. Lepow. 2,665,650, Jan. 12.
Screen holding strip securing means. A. Lang. 2,665,753, Jan. 12.
Screen on automobile and truck windows. R. H. and R. J. Claussen. 2,665,754, Jan. 12.
Seal hanger. F. D. Moyer and J. L. Scholbe. 2,665,819, Jan. 12.
Sealing coffee beans. M. Naps. 2,665,992, Jan. 12.
Sealing rim for kitchen sinks. B. H. Ross and A. C. Jensen. 2,665,430, Jan. 12.
Seat: *See*—
Motor vehicle seat.
Seat for barber chairs, Child's auxiliary. R. R. Darter. 2,665,746, Jan. 12.
Securing light transmitting panes in window frames, Means for. R. Pryne. 2,665,783, Jan. 12.
Segmental slip subsurface well tool. R. C. Baker. 2,665,765, Jan. 12.
Segmented copolymers, Preparing. K. Nozaki. 2,660,042, Jan. 12.
Separation of low molecular weight hydrocarbons from hydrocarbon mixtures with a complexing agent. J. W. Fitzwilliam and G. B. Arnold. 2,666,048, Jan. 12.
Separation of wax-like constituents from oil with a complexing agent in the presence of water. G. B. Arnold, H. V. Hess, J. K. Trultt, and J. W. Fitzwilliam. 2,666,020, Jan. 12.
Separator. A. S. Parks. 2,665,565, Jan. 12.
Septic tank. A. P. Blanchard. 2,666,030, Jan. 12.
Sequential circuits. A. E. Bachelet and H. Pitlik. 2,666,195, Jan. 12.
Servicing equipment for lubricating systems. E. M. Greer and C. R. Wetterau. 2,665,772, Jan. 12.
Servomotor system having differential torque displacement feedback. R. S. Brannin, Jr., and P. Halpert. 2,666,177, Jan. 12.
Set mark elluminator. C. R. Beall and L. B. Reynolds. 2,665,715, Jan. 12.
Sewing machine, Portable. H. Theenhaüsen. 2,665,653, Jan. 12.

Shaft sealing device. J. W. Sawyer. 2,665,929, Jan. 12.
Shears, Compound leverage metal-cutting. R. H. McCoy. 2,665,755, Jan. 12.
Sheet feeding mechanism, Automatic. E. L. Johnson. 2,665,906, Jan. 12.
Shield, Adjustable antiglare. O. M. Lurie. 2,665,939, Jan. 12.
Shielding container. V. W. Balzer. 2,666,092, Jan. 12.
Shipping structure, Palletized. L. J. Budd. 2,665,806, Jan. 12.
Shoe scraper for automotive vehicles. C. H. Schetzer. 2,665,921, Jan. 12.
Shoe with staggered lock-stitching, Flexible welt. R. G. McConnell. 2,665,504, Jan. 12.
Signal: *See*—
Conveyer misalignment signal.
Speed controlled warning signal.
Signal device, Vacuum operated. D. P. Polymeros. 2,666,197, Jan. 12.
Silicone rubber, Reclaimed. C. W. Pfeifer. 2,666,035, Jan. 12.
Silicone rubbers with improved compression set. C. W. Pfeifer. 2,666,041, Jan. 12.
Simultaneous oxidation and halogenation of steroids. A. R. Hanze and R. H. Levin. 2,666,067, Jan. 12.
Single side band mixer for moving target indicating radar systems. J. K. Clapp, C. P. Spaulding, and B. E. Watt. 2,666,141, Jan. 12.
Sizing paper. A. B. Bakalar and R. D. Sullivan. 2,665,983, Jan. 12.
Skirt, Bifurcated. R. F. Bowley. 2,665,428, Jan. 12.
Skirt plate and skirt seal construction for conveyer belts. F. H. Holwick. 2,665,795, Jan. 12.
Smoke jack for diesel locomotives. H. and H. G. Knutson. 2,665,647, Jan. 12.
Soaking pit curb wall with fixed elevation. C. L. Herman. 2,665,895, Jan. 12.
Socket, Spring wire snap fastener. P. E. Fenton and M. J. Carpinella. 2,665,468, Jan. 12.
Sound detecting and indicating system, Underwater. H. P. Krauss. 2,666,191, Jan. 12.
Spark plug boot. R. C. Woofter. 2,665,673, Jan. 12.
Spectrometer. L. B. Borst. 2,666,147, Jan. 12.
Speed controlled warning signal. D. Dasso. 2,665,657, Jan. 12.
Spindle drive for cotton-picking machines. J. D. Rust. 2,665,536, Jan. 12.
Spinning type fishing reel. H. G. Shakespeare and G. D. Harrington. 2,665,856, Jan. 12.
Spinograph apparatus. J. C. Thompson. 2,666,143, Jan. 12.
Splined clutch. J. O. P. Hughes. 2,665,788, Jan. 12.
Spooler, Multiple in-line. W. Siegenthaler and K. Laager. 2,665,854, Jan. 12.
Spout and cap device for the sealing and dropwise dispensing of fluids, Adjustable. R. W. Mahoney. 2,665,826, Jan. 12.
Spray machine, Two-fluid centrifugal. W. S. Bowen. 2,665,942, Jan. 12.
Sprayer, Automatic livestock. G. Jones. 2,665,665, Jan. 12.
Sprayer construction. G. H. Palm. 2,665,943, Jan. 12.
Spraying means and screw-type article-conveying mechanism, Article. J. Hohl and A. F. Trendel. 2,665,697, Jan. 12.
Stabilization of mineral oil fractions. D. Milson. 2,666,021, Jan. 12.
Stabilizing and plasticizing vinylidene chloride resins. R. J. Reid and W. M. Smith, Jr. 2,666,039, Jan. 12.
Stabilizing fats and oils and compositions obtained thereby. N. H. Kuhrt. 2,665,991, Jan. 12.
Stand: *See*—
Collapsible fishing rod stand.
Electric appliance stand.
Garbage can stand.
Starter for internal-combustion engines. H. Troeger. 2,665,587, Jan. 12.
Starter jaw advancing mechanism. S. Gilbert. 2,665,588, Jan. 12.
Steam flow control system. R. F. Schaub. 2,665,847, Jan. 12.
Steel banded aluminum mold. M. Bean and W. Beatty. 2,665,967, Jan. 12.
Steel strapping and shield. J. M. Gerrard. 2,666,004, Jan. 12.
Step-by-step operated combination lock. A. Sanowskis. 2,665,577, Jan. 12.
Strand treating apparatus. P. L. Pendleton. 2,665,699, Jan. 12.
Structural unit and structure. H. W. Salo. 2,665,455, Jan. 12.
Stylus moving and guiding structure for electrical recorders. B. G. Blackman. 2,665,965, Jan. 12.
Substituted thiobarbituric acids and salts thereof. W. J. Doran. 2,666,057, Jan. 12.
Sulfur of noncaking character, Producing finely ground. R. E. Moringstar and G. H. Whipple. 2,665,973, Jan. 12.
Supplementary apparatus for railway signaling systems. B. Mishelevich. 2,666,131, Jan. 12.
Support: *See*—
Novelty animal spool support.
Tip tank wedge support.
Support device for litters and the like, Adjustable. E. C. Elsner. 2,665,431, Jan. 12.
Surface test indicator. G. C. Welch. 2,665,658, Jan. 12.
Surgical apparatus for measuring and regulating vacuum pressures. J. Ognanovich. 2,665,691, Jan. 12.
Suture package. R. J. Schaefer. 2,665,805, Jan. 12.
Swing and rocking crib, Convertible. G. H. Hodgson. 2,665,744, Jan. 12.
Switch: *See*—
Elevator inductor switch.
Magnetically controlled switch.
Switch apparatus, Explosion-proof. B. F. Becker. 2,666,119, Jan. 12.
Switch construction, Sliding contactor. G. S. Ellithorpe. 2,666,101, Jan. 12.
Switch mechanism. E. R. Price. 2,666,103, Jan. 12.
Switch mechanism, Electrical. L. Day. 2,666,115, Jan. 12.
Switching apparatus controlled by solar radiation, Electric. K. Schweingruber. 2,666,116, Jan. 12.
Switching device, Magnetic. J. A. Rajchman and R. Stuart-Williams. 2,666,151, Jan. 12.
Synchronous motor. J. M. Pestarini. 2,666,174, Jan. 12.
Syringe and an adaptable needle, Steriless. M. T. Hyslop. 2,665,688, Jan. 12.
Syringe assembly. F. E. Brown. 2,665,687, Jan. 12.
System for controlling oscillator grid current. C. E. Ellsworth. 2,666,129, Jan. 12.
Table for slitting mills, Entry. R. W. Hall. 2,665,756, Jan. 12.
Table leg mounting means, Folding. A. E. Anderson. 2,665,961, Jan. 12.
Tail stock indicator holder. D. G. Keener. 2,665,493, Jan. 12.
Tank: *See*—
Septic tank.
Teething and feeding device, Infant. P. P. Pecora. 2,665,693, Jan. 12.
Telephone switching system, Electronic discharge-tube controlled. W. A. Cornell, N. I. Hall, G. Hecht, C. D. Koechling, F. A. Korn, and H. E. Powell. 2,666,096, Jan. 12.
Testing borehole logging instruments. G. Herzog and K. C. ten Brink. 2,666,142, Jan. 12.
Testing cord fabric. R. R. Armstrong and B. M. Wolf. 2,665,582, Jan. 12.
Testing machine clamping device. L. Hoffman. 2,665,603, Jan. 12.
Textile-finishing compositions, finished articles, and producing them. J. B. Eisen. 2,666,038, Jan. 12.
Thermocouple. I. E. Aske. 2,666,090, Jan. 12.
Thread cutter and guard, Weft. R. L. Tice. 2,665,718, Jan. 12.
3-(α-phenyl-β-acetylethyl)-4-hydroxycoumarin, Manufacture of. D. F. Starr and K. K. Haber. 2,666,064, Jan. 12.
Thrust bearing. W. Hyams. 2,665,959, Jan. 12.
Ticket strip. C. A. Flood. 2,665,509, Jan. 12.
Tilted container. G. R. Erlcson. 2,665,949, Jan. 12.
Tip tank wedge support. R. E. Grill. 2,665,862, Jan. 12.
Tire casing protected against heat aging, Cellulose fiber. H. M. Buckwalter. 2,665,733, Jan. 12.
Tire chain applying clamp. M. A. Kent. 2,665,602, Jan. 12.
Tire manipulating device. E. A. Glynn. 2,665,883, Jan. 12.
Tire mounting machine and conveyer, Automatically adjustable. H. S. Harrison. 2,665,747, Jan. 12.
Tire, Tubeless. R. J. Slezak. 2,665,731, Jan. 12.
Tissue, Disposable cleansing. G. L. Sternfield and M. W. Block. 2,665,528, Jan. 12.
Toaster with thermostatic delay means, Automatic. F. E. Hummel. 2,665,629, Jan. 12.
Tool: *See*—
Deicer boot applying tool.
Dusting tool.
Pipe cleaning tool.
Power-driven tool.
Retrievable subsurface well tool.
Segmental slip subsurface well tool.
Tool adapter for lathes. E. P. Pierce. 2,665,605, Jan. 12.
Toothbrush with refillable dentifrice dispenser. W. Martino. 2,665,442, Jan. 12.
Toothed cutting impeller for pulping solid materials in liquid suspension. G. B. Nicholson, Jr. 2,665,853, Jan. 12.
Torch holding attachment for gas cutting machines. J. H. W. Begerow. 2,665,900, Jan. 12.
Toy automobile with windshield wiper. V. Staccone and F. Amico. 2,665,520, Jan. 12.
Toy gun. P. Whitlock. 2,665,677, Jan. 12.
Toy, Inflatable animal. A. Burkes. 2,665,519, Jan. 12.
Toy vehicle. S. Junod. 2,665,522, Jan. 12.
Traction device. M. Kaufman. 2,665,685, Jan. 12.
Tractor cab with closure curtains. M. D. Parkinson 2,665,751, Jan. 12.
Trailer hitch, Retractable. P. L. Perry. 2,665,923, Jan. 12.
Transformer, Rotary seam welding. E. W. Allardt. 2,666,121, Jan. 12.
Transient analyzing system. D. E. Maxwell. 2,666,179, Jan. 12.
Transmission. K. F. Weber. 2,665,590, Jan. 12.
Transmission, Electromagnetic. M. N. Kaplan. 2,666,155, Jan. 12.
Transmission, Hydraulic. C. R. Moon. 2,665,595, Jan. 12.

Transmission line, Low loss high-frequency. L. K. Wildberg. 2,666,093, Jan. 12.
Transmission operating mechanism. H. W. Price. 2,665,594, Jan. 12.
Transmission, Shiftless. H. E. Varble. 2,665,596, Jan. 12.
Transmitter, Single sideband. L. R. Kahn. 2,666,133, Jan. 12.
Tray for dental use, Ring. J. L. Weldon. 2,665,479, Jan. 12.
Tray, Produce. W. C. Rendall. 2,665,836, Jan. 12.
Treating strip. R. S. A. Dougherty, A. C. Chamberlin, and H. W. Nieman. 2,666,003, Jan. 12.
Triazine fluorescent agents. W. W. Williams, W. E. Wallace, and H. B. Freyermuth. 2,666,052, Jan. 12.
Trough. L. D. Hagenbook. 2,665,798, Jan. 12.
Truck body, Demountable. W. G. McCrossen. 2,665,938, Jan. 12.
Truing mechanism. F. S. Haas and W. Trible. 2,665,681, Jan. 12.
Tube: *See*—
Cathode-ray storage tube.
Coal feed tube.
Disk seal tube.
Electronic transducer tube.
Tuning plunger for a coaxial line type ultrahigh-frequency circuit. G. E. Hulstede and J. G. Stephenson. 2,666,185, Jan. 12.
Turban. J. R. Street and J. M. Woolston. 2,665,427, Jan. 12.
Turbine blade, Cooled. R. H. Smith and C. J. Van Haltern. 2,665,881, Jan. 12.
Turbine rotor. C. Schörner. 2,665,880, Jan. 12.
2-alkoxyhexahydropyrimidine-4,6-dione derivatives and preparing same. W. R. Boon and C. H. Vasey. 2,666,056, Jan. 12.
2-alkoxy-2-alkyltetrahydrofurans, Preparation of. S. Swadesh. 2,666,065, Jan. 12.
Typewriting machine having automatic cutoff switch. K. R. Stauss. 2,665,792, Jan. 12.
Undecylenic acid esters of 8-hydroxyquinolines. R. Neher. 2,666,058, Jan. 12.
Underwater air cleaner. J. B. Sebok. 2,665,771, Jan. 12.
Vacuum cleaner, including sectional housing and fastening means therefor. E. C. Foerstel and R. L. Kelsey. 2,665,445, Jan. 12.
Vacuum concentrator. W. Kals. 2,665,750, Jan. 12.
Valve: *See*—
Back scuttling valve.
Ball valve.
Constant speed flow control valve.
Control valve.
Deformable microleak valve.
Fluid motor valve.
In-line valve.
Load responsive pressure regulating valve.
Pressure fluid operated by-pass and relief valve.
Pressure sealed valve.
Valve. D. H. Greenwood. 2,665,714, Jan. 12.
Valve construction. D. MacGregor. 2,665,875, Jan. 12.
Valve for fire hose lines, Control. E. J. Housekeeper, R. H. Hunter, and C. J. Braun. 2,665,879, Jan. 12.
Valve for tubeless tire diaphragms. R. J. Slezak. 2,665,732, Jan. 12.
Valve leak detector. D. Clawson. 2,665,580, Jan. 12.
Valve operating mechanism. H. Harvey. 2,665,709, Jan. 12.
Valve or piston mechanism for brass band instruments. C. Wohlrab, Jr. 2,665,606, Jan. 12.
Valve regulating device, Rodless slide. F. Tolkien. 2,665,667, Jan. 12.
Valve seat insert. R. H. Sheppard. 2,665,675, Jan. 12.
Valve with stop means, Fluid pressure actuated. L. Pratt. 2,665,712, Jan. 12.
Vaporizer, Insulated bayonet tube. P. S. Otten. 2,665,556, Jan. 12.
Variable attenuator. F. J. Ocnaschek. 2,666,183, Jan. 12.
Variable inductance. L. G. Ketcham. 2,666,187, Jan. 12.
Variable resistance acceleration sensitive device. F. J. Kirby and W. E. Vore. 2,665,896, Jan. 12.
Vault, Burial. D. U. Gould. 2,665,471, Jan. 12.
Vehicle: *See*—
Toy vehicle.
Venetian blind construction. H. S. Rosenbaum. 2,665,752, Jan. 12.
Ventilator. R. H. Fager. 2,665,627, Jan. 12.
Ventilator assembly. W. J. Woodhams. 2,665,625, Jan. 12.
Ventilator, Building. A. H. Jones. 2,665,626. Jan. 12.
Vitamin assay medium. J. F. Roland, Jr., and A. M. Gross. 2,666,018, Jan. 12.
Vortex concentrator. G. G. Chisholm. 2,665,809, Jan. 12.
Vulcanization of rubber. E. L. Carr and G. E. P. Smith, Jr. 2,666,043, Jan. 12.
Wad. M. E. Morel. 2,665,635, Jan. 12.
Watchcase, Waterproof snapback. H. Dinstman. 2,665,545, Jan. 12.
Water flow regulator. J. R. Hansen. 2,665,706, Jan. 12.
Water service device. J. W. McGarry and B. W. Wickemeier. 2,665,710, Jan. 12.
Water softening apparatus. H. R. Carr. 2,666,031, Jan. 12.
Waveguide mixer. R. H. Dicke. 2,666,134, Jan. 12.
Web feeding mechanism, Continuous. G. A. Lyon. 2,665,905, Jan. 12.
Weighing device, Coffee. P. F. Campbell. 2,665,898, Jan. 12.
Welding method and article produced thereby. H. Chanowitz. 2,666,120, Jan. 12.
Well packer apparatus. R. C. Baker. 2,665,763, Jan. 12.
Well pump filter. N. C. Wells. 2,665,644, Jan. 12.
Well pump gas and sand control filter. N. C. Wells. 2,665,645, Jan. 12.
Wheel cover. G. A. Lyon. 2,665,947–8, Jan. 12.
Wheel for models and toys. W. E. Ford. 2,665,521, Jan. 12.
Wicker golf bag. M. Fite. 2,665,727, Jan. 12.
Wind speed and direction indicator. P. G. Anjanos. 2,665,583, Jan. 12.
Window and mounting therefor, Tilting. V. B. K. Rasmussen. 2,665,457, Jan. 12.
Window operator, Automatic-manual. H. G. Lehmann. 2,665,904, Jan. 12.
Wire clip for holding in place furring supporting rods. B. Hillberg. 2,665,578. Jan. 12.
Wood veneer, Expanded. J. R. Francek. 2,665,460, Jan. 12.
Work dividing attachment. F. A. Reip. 2,665,614, Jan. 12.
Wrapper, Reinforced package. J. A. Anglada. 2,665,834, Jan. 12.
Wrench: *See*—
Adjustable loop chain link wrench.
Yarn-supply creel. W. J. Fisher and T. Eccles. 2,665,857, Jan. 12.

CLASSIFICATION OF PATENTS

ISSUED JANUARY 12, 1954

NOTE.—First number = class, second number = subclass, third number = patent number

1— 44.5: 2,665,421
2— 3: 2,665,422
15: 2,665,423
29: 2,665,424
48: 2,665,425
49: 2,665,426
198: 2,665,427
212: 2,665,428
268: 2,665,429
4— 187: 2,665,430
5— 9: 2,665,431
81: 2,665,432
99: 2,665,433
1: 2,665,434
7— 1: 2,665,435
8—127.6: 2,665,966
11— 1: 2,665,436
12— 10.1: 2,665,436
51: 2,665,437
13— 18: 2,666,087
34: 2,666,088
15— 91: 2,665,438
98: 2,665,439
101: 2,665,440
118: 2,665,441
137: 2,665,442
159: 2,665,443
210: 2,665,444
344: 2,665,445
396: 2,665,446
16— 52: 2,665,447
138: 2,665,448
17— 2: 2,665,449
18— 15: 2,665,450
21: 2,665,451
47: 2,665,452
58: 2,665,452
19— 146: 2,665,453
20— 1.11: 2,665,454
4: 2,665,455
35: 2,665,456
42: 2,665,457
69: 2,665,458
2,665,459
89: 2,665,460
22— 10: 2,665,461
32: 2,665,462
23— 75: 2,665,968
123: 2,665,969
140: 2,665,970
150: 2,665,971
2,665,972
224: 2,665,973
262: 2,665,974
270.5: 2,665,975
288: 2,665,976
24— 66: 2,665,463
86: 2,665,464
97: 2,665,465
137: 2,665,466
201: 2,665,467
218: 2,665,468
25— 156: 2,665,469
26— 51.3: 2,665,470
27— 35: 2,665,471
29— 105: 2,665,472
148.2: 2,665,473
195: 2,665,474
198: 2,665,475
30— 30: 2,665,476
51: 2,665,477
297: 2,665,478
32— 1: 2,665,479
14: 2,665,480
33— 1: 2,665,481
2,665,482
2: 2,665,483
70: 2,665,484
2,665,485
77: 2,665,486
85: 2,665,487
148: 2,665,488
161: 2,665,489
2,665,490
167: 2,665,491
172: 2,665,492
2,665,493
2,665,494
33— 174: 2,665,495
178: 2,665,496
206: 2,665,497
216: 2,665,498
220: 2,665,499
34— 82: 2,665,500
2,665,501
240: 2,665,502
35— 28.3: 2,665,503
36— 17: 2,665,504
71: 2,665,505
37— 43: Re.23,771
104: 2,665,506
38— 117: 2,665,507
39— 96: 2,665,508
40— 2: 2,665,509
125: 2,665,510
43— 41: 2,665,511
42.03: 2,665,512
42.06: 2,665,513
42.13: 2,665,514
42.33: 2,665,515
42.51: 2,665,516
54.5: 2,665,517
121: 2,665,518
44— 26: 2,665,977
74: 2,665,978
46— 87: 2,665,519
204: 2,665,520
221: 2,665,521
2,665,522
47— 28: 2,665,523
61: P.P.1,240
P.P.1,241
48— 196: 2,665,979
212: 2,665,980
49— 1: 2,665,524
14: 2,665,525
51— 103: 2,665,526
108: 2,665,527
185: 2,665,528
215: 2,665,529
241: 2,665,530
262: 2,665,531
53— 147: 2,665,532
55— 106: 2,665,533
56— 36: 2,665,534
41: 2,665,535
42: 2,665,536
2,665,537
111: 2,665,538
249: 2,665,539
256: 2,665,540
57— 32: 2,665,541
58— 23: 2,665,542
34: 2,665,543
38: 2,665,544
90: 2,665,545
107: 2,665,546
59— 8: 2,665,547
60—39.15: 2,665,548
39.28: 2,665,549
51: 2,665,550
2,665,551
52: 2,665,552
54: 2,665,553
54.5: 2,665,554
97: 2,665,555
62— 1: 2,665,556
3: 2,665,557
2,665,558
4: 2,665,559
2,665,560
12: 2,665,561
43: 2,665,562
77: 2,665,563
89: 2,665,564
122: 2,665,565
126: 2,665,566
2,665,567
178: 2,665,568
64— 25: 2,665,569
28: 2,665,570
65— 22: 2,665,571
67— 7.1: 2,665,572
2,665,573
68— 21: 2,665,574
68— 23: 2,665,575
2,665,576
70— 133: 2,665,577
72— 109: 2,665,578
73— 37.5: 2,665,579
48: 2,665,580
67: 2,665,581
159: 2,665,582
189: 2,665,583
411: 2,665,584
422: 2,665,585
74— 7: 2,665,586
9: 2,665,587
2,665,588
88: 2,665,589
121: 2,665,590
209: 2,665,591
241: 2,665,592
364: 2,665,593
472: 2,665,594
752: 2,665,595
756: 2,665,596
75— .5: 2,665,981
51: 2,665,982
77— 2: 2,665,597
62: 2,665,598
73.5: 2,665,599
78— 32: 2,665,600
81— 3.5: 2,665,601
15.8: 2,665,602
17.2: 2,665,603
66: 2,665,604
82— 36: 2,665,605
84— 392: 2,665,606
88— 14: 2,665,607
24: 2,665,608
2,665,609
60: 2,665,610
96: 2,665,611
90— 3: 2,665,612
20.5: 2,665,613
57: 2,665,614
92— 3: 2,665,983
44: 2,665,615
93— 55.1: 2,665,616
95— 5: 2,665,984
6: 2,665,985
11: 2,665,617
2,665,618
14: 2,665,619
31: 2,665,620
88: 2,665,986
97— 40: 2,665,621
46.07: 2,665,622
188: 2,665,994
98— 1.5: 2,665,623
2,665,624
19: 2,665,625
43: 2,665,626
99.8: 2,665,627
99— 2: 2,665,987
16: 2,665,988
20: 2,665,989
116: 2,665,990
163: 2,665,991
167: 2,665,992
174: 2,665,993
252: 2,665,628
335: 2,665,629
351: 2,665,630
100— 179: 2,665,631
233: 2,665,632
101— 11: 2,665,633
120: 2,665,634
102— 95: 2,665,635
103— 3: 2,665,636
4: 2,665,637
2,665,638
42: 2,665,639
104: 2,665,640
126: 2,665,641
135: 2,665,642
203: 2,665,643
2,665,644
2,665,645
262: 2,665,646
104— 52: 2,665,647
106— 14: 2,665,995
120: 2,665,996
107— 15: 2,665,648
47: 2,665,649
112— 102: 2,665,650
113: 2,665,651
172: 2,665,652
260: 2,665,653
113— 38: 2,665,654
114— 42: 2,665,655
235: 2,665,656
116— 57: 2,665,657
129: 2,665,658
117— 49: 2,665,997
2,665,998
112: 2,665,999
118— 49: 2,665,659
122: 2,665,660
243: 2,665,661
246: 2,665,662
119—14.4: 2,665,663
28: 2,665,664
159: 2,665,665
120— 37: 2,665,666
121— 108: 2,665,667
123— 44: 2,665,668
90: 2,665,669
2,665,670
119: 2,665,671
169: 2,665,672
2,665,673
179: 2,665,674
188: 2,665,675
124— 11: 2,665,676
17: 2,665,677
23: 2,665,678
24: 2,665,679
125— 11: 2,665,680
2,665,681
126— 9: 2,665,682
288: 2,665,683
128— 69: 2,665,684
75: 2,665,685
141: 2,665,686
218: 2,665,687
2,665,688
221: 2,665,689
272: 2,665,690
278: 2,665,691
334: 2,665,692
360: 2,665,693
129 16.1: 2,665,694
130— 5: 2,665,695
132— 79: 2,665,696
134— 3: 2,666,000
27: 2,666,001
65: 2,665,697
88: 2,665,698
122: 2,665,699
182: 2,665,700
135— 53: 2,665,701
136— 4: 2,666,089
5: 2,666,090
161: 2,666,091
137— 103: 2,665,702
2,665,703
110: 2,665,704
208: 2,665,705
393: 2,665,706
486: 2,665,707
493: 2,665,708
625: 2,665,709
652: 2,665,710
688: 2,665,711
689: 2,665,712
2,665,713
699: 2,665,714
139— 111: 2,665,715
127: 2,665,716
263: 2,665,717
264: 2,665,718
143— 32: 2,665,719
95: 2,665,720
144— 208: 2,665,721
238: 2,665,722
146— 124: 2,665,723
182: 2,665,724
189: 2,665,725
146— 217: 2,665,726
148— 6: 2,666,002
12: 2,666,003
150— 1.5: 2,665,727
28: 2,665,728
151— 36: 2,665,729
41.7: 2,665,730
152— 341: 2,665,731
342: 2,665,732
359: 2,665,733
2,665,734
154— 1.6: 2,665,735
2,665,736
42: 2,665,737
2,665,738
2,665,739
199— 44: 2,666,004
53.6: 2,666,005
85: 2,666,006
2,666,007
94: 2,666,008
155— 14: 2,665,740
2,665,741
24: 2,665,742
30: 2,665,743
44: 2,665,744
119: 2,665,745
132: 2,665,746
157— 1.1: 2,665,747
158— 76: 2,665,748
123: 2,665,749
159— 23: 2,665,750
160— 23: 2,665,751
175: 2,665,752
327: 2,665,753
354: 2,665,754
164— 46: 2,665,755
61: 2,665,756
75: 2,665,757
166— 1: 2,665,758
2: 2,665,759
2,665,760
4: 2,665,761
2,665,762
12: 2,665,763
2,665,764
2,665,765
18: 2,665,766
19: 2,665,767
167— 25: 2,666,009
30: 2,666,010
2,666,012
63: 2,666,013
169— 36: 2,665,768
174— 35: 2,666,092
117: 2,666,093
178— 7.1: 2,666,094
23: 2,666,095
179— 18: 2,666,096
90: 2,666,097
171: 2,666,098
175.3: 2,666,099
2,666,100
183— 4.1: 2,665,769
7: 2,665,770
15: 2,665,771
184— 1.5: 2,665,772
15: 2,665,773
18: 2,665,774
186— .1: 2,665,775
188— 56: 2,665,776
152: 2,665,777
197: 2,665,778
236: 2,665,779
189— 35: 2,665,780
46: 2,665,781
65: 2,665,782
78: 2,665,783
82: 2,665,784
192— .07: 2,665,785
.09: 2,665,786
12: 2,665,787
2,665,788
21.5: 2,665,789
105: 2,665,790
194— 9: 2,665,791
195— 28: 2,666,014
195— 51: 2,666,015
2,666,016
100: 2,666,017
2,666,018
196— 11: 2,666,019
14.35: 2,666,020
14.41: Re.23,768
35: 2,666,021
49: 2,666,022
197— 17: 2,665,792
198— 40: 2,665,793
109: 2,665,794
204: 2,665,795
215: 2,665,796
220: 2,665,797
2,665,798
199— 18: 2,665,799
31: 2,665,800
200— 16: 2,666,101
30: 2,666,102
34: 2,666,103
61.03: 2,666,105
61.23: 2,666,106
61.58: 2,666,104
82: 2,666,107
83: 2,666,108
84: 2,666,109
87: 2,666,110
2,666,111
2,666,112
104: 2,666,113
116: 2,666,114
138: 2,666,115
141: 2,666,116
150: 2,666,117
2,666,118
168: 2,666,119
201— 63: 2,666,120
204— 39: 2,666,023
128: 2,666,024
158: 2,666,025
197: 2,666,026
2,666,027
266: 2,666,028
286: 2,666,029
206— 16: 2,665,801
2,665,802
38: 2,665,803
62: 2,665,804
63.3: 2,665,805
65: 2,665,806
2,665,807
73: 2,665,808
209— 211: 2,665,809
210— 6: 2,666,030
24: 2,666,031
165: 2,665,810
171: 2,665,811
196: 2,665,812
203: 2,665,813
214— 3.1: 2,665,814
77: 2,665,815
219— 6: 2,666,121
8: 2,666,122
19: 2,666,123
20: 2,666,124
25: 2,666,125
38: 2,666,126
40: 2,666,127
43: 2,666,128
47: 2,666,129
2,666,130
220— 20: 2,665,816
2,665,817
24.5: 2,665,818
26: 2,665,819
27: 2,665,820
52: 2,665,821
55: 2,665,822
222— 83.5: 2,665,823
183: 2,665,824
209: 2,665,825
422: 2,665,826
223— 28: 2,665,827
92: 2,665,828
98: 2,665,829
224— 5: 2,665,830
226— 20.4: 2,665,831

226— 92: 2,665,832
229 3.1: 2,665,833
7: 2,665,834
14: 2,665,835
32: 2,665,836
37: 2,665,837
52: 2,665,838
230 19: 2,665,839
114: 2,665,840
117: 2,665,841
232— 1: 2,665,842
233— 41: 2,665,843
235— 60.2: 2,665,844
92: 2,665,845
132: 2,665,846
237 67: 2,665,847
238— 10: 2,665,848
2,665,849
241— 23: 2,665,850
73: 2,665,851
92: 2,665,852
298: 2,665,853
242— 35.5: 2,665,854
54: 2,665,855
84.4: 2,665,856
131: 2,665,857
139: 2,665,858
244 7: 2,665,859
58: 2,665,860
77: 2,665,861
135: 2,665,862
150: 2,665,863
246 41: 2,666,131
248— 10: 2,665,864
27: 2,665,865
46: 2,665,866
68: 2,665,867
147: 2,665,868
214: 2,665,869
280: 2,665,870
353: 2,665,871
362: 2,665,872
250 13: 2,666,132
17: 2,666,133
20: 2,666,134

250— 27: Re.23,770
2,666,135
2,666,136
2,666,137
33: 2,666,138
36: 2,666,139
2,666,140
2,666,141
43.5: 2,666,142
50: 2,666,143
65: 2,666,144
71: 2,666,145
83.6: 2,666,146
217: 2,666,147
218: 2,666,148
251— 11: 2,665,873
49: 2,665,874
2,665,875
115: 2,665,876
128: 2,665,877
131: 2,665,878
163: 2,665,879
252— 8.5: 2,666,032
42: 2,666,033
138: Re.23,774
389: 2,666,034
253— 39: 2,665,880
39.15: 2,665,881
254— 26: 2,665,882
50.3: 2,665,883
77: 2,665,884
255— 1.4: 2,665,885
1.8: 2,665,886
27: 2,665,887
35: 2,665,888
257— 224: 2,665,889
259— 9: Re.23,772
89: 2,665,890
260— 2.3: 2,666,035
2.5: 2,666,036
17.2: 2,666,037
23: 2,666,038
31.2: 2,666,039
31.8: 2,666,040
37: 2,666,041

260— 45.5: 2,666,042
79.5: 2,666,043
80.5: 2,666,044
87.5: 2,666,045
88.1: 2,666,046
92.8: 2,666,047
96.5: 2,666,048
123.5: 2,666,049
239: 2,666,050
2,666,051
247.1: 2,666,052
247.2: 2,666,053
250: 2,666,054
256.5: 2,666,055
260: 2,666,056
2,666,057
286: 2,666,058
288: 2,666,059
294.7: 2,666,060
297: 2,666,061
308: 2,666,062
309.5: 2,666,063
343.2: 2,666,064
347.8: 2,666,065
397.4: 2,666,066
2,666,067
2,666,068
2,666,069
2,666,070
2,666,071
2,666,072
397.7: 2,666,073
424: 2,666,074
429: 2,666,075
448: 2,666,076
449.6: 2,666,077
461: 2,666,078
465: 2,666,079
518: Re.23,766
519: Re.23,767
527: 2,666,080
543: 2,666,081
613: 2,666,082
614: 2,666,083
648: 2,666,084

260— 650: 2,666,085
680: 2,666,086
261— 52: 2,665,891
89: 2,665,892
262— 33: 2,665,893
263— 8: 2,665,894
46: 2,665,895
264— 1: 2,665,896
2: 2,665,897
265— 49: 2,665,898
266— 20: 2,665,899
23: 2,665,900
267— 1: 2,665,901
69: 2,665,902
73: 2,665,903
268— 124: 2,665,904
271— 2.5: 2,665,905
36: 2,665,906
57: 2,665,907
273— 76: 2,665,908
80: 2,665,909
88: 2,665,910
95: 2,665,911
118: 2,665,912
137: 2,665,913
138: 2,665,914
144: 2,665,915
150: 2,665,916
274— 10: 2,665,917
2,665,918
23: 2,665,919
280— 44: 2,665,920
164: 2,665,921
179: 2,665,922
491: 2,665,923
282— 29: 2,665,924
284— 18: 2,665,925
2,665,926
285— 21: 2,665,927
168: 2,665,928
286— 9: 2,665,929
287—52.06: 2,665,930
119: 2,665,931
290— 44: 2,666,149
292— 177: 2,665,932

292— 181: 2,665,933
216: 2,665,934
292: 2,665,935
294— 33: 2,665,936
67: 2,665,937
296— 28: 2,665,938
44: Re.23,773
97: 2,665,939
299— 28: 2,665,940
47: 2,665,941
69: 2,665,942
86: 2,665,943
2,665,944
90: 2,665,945
104: 2,665,946
301— 37: 2,665,947
2,665,948
302— 57: 2,665,949
304— 2: 2,665,950
3: 2,665,951
31.5: 2,665,952
40: 2,665,953
307— 88: 2,666,150
2,666,151
115: 2,666,152
308— 35: 2,665,954
36.1: 2,665,955
72: 2,665,956
120: 2,665,957
201: 2,665,958
233: 2,665,959
240: 2,665,960
310— 34: 2,666,153
99: 2,666,154
105: 2,666,155
311— 99: 2,665,961
312— 13: 2,665,962
235: 2,665,963
313— 93: 2,666,157
113: 2,666,158
148: 2,666,200
174: 2,666,159
315— 5: 2,666,160
13: 2,666,161
21: 2,666,162

315— 21: 2,666,163
26: 2,666,164
40: 2,666,165
75: 2,666,166
317 141: 2,666,167
222: 2,666,168
318— 19: 2,666,169
28: 2,666,170
2,666,171
31: 2,666,172
162: 2,666,173
172: 2,666,174
274: 2,666,175
367: 2,666,176
489: 2,666,177
321— 7: 2,666,178
324— 35: Re.23,769
57: 2,666,179
78: 2,666,180
332— 23: 2,666,181
28: 2,666,182
333— 81: 2,666,183
2,666,184
97: 2,666,185
98: 2,666,186
336— 136: 2,666,187
339— 5: 2,666,188
213: 2,666,189
340— 3: 2,666,190
2,666,191
6: 2,666,192
49: 2,666,193
50: 2,666,194
168: 2,666,195
171: 2,666,196
236: 2,666,197
343— 11: 2,666,198
117: 2,666,199
346— 32: 2,665,964
139: 2,665,965

Classification of Designs

D 9— 2: Des. 171,284
D33— 8: Des. 171,283
D34— 5: Des. 171,286

D45— 4: Des. 171,274
Des. 171,281
16: Des. 171,273

D47— 7: Des. 171,275
D58—26: Des. 171,280
D74— 5: Des. 171,272

D74—21: Des. 171,278
D80— 9: Des. 171,285

D81—21: Des. 171,276
D91— 3: Des. 171,279

D92— 2: Des. 171,282
26: Des. 171,277

U. S. GOVERNMENT PRINTING OFFICE: 1954

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 605,518. Jacques Seed Company, Prescott, Wis. Filed Oct. 26, 1950. (Sec. 2f.)

SIB-BRED

For Corn Seed.
Claims use since Nov. 1, 1947.

Ser. No. 635,399. W. Atlee Burpee Company, Philadelphia, Pa. Filed Sept. 18, 1952.

Burpee Greenhart

Applicant disclaims the word "Burpee" apart from the mark itself for the purpose of registering the present mark. Applicant claims ownership of Registrations Nos. 160,145 and 356,255.

For Vegetable Seeds.
Claims use since Sept. 11, 1952.

Ser. No. 635,400. W. Atlee Burpee Company, Philadelphia, Pa. Filed Sept. 18, 1952.

Burpee Redhart

Applicant disclaims the word "Burpee" apart from the mark itself for the purpose of registering the present mark. Applicant claims ownership of Registrations Nos. 160,145 and 356,255.

For Vegetable Seeds.
Claims use since Sept. 11, 1952.

Ser. No. 644,927. Pennsylvania Perlite Corporation, Allentown, Pa. Filed Apr. 8, 1953.

PA-LITE

For Perlite Aggregate.
Claims use since Feb. 4, 1953.

Ser. No. 645,538. Caram Manufacturing Company, Monrovia, Calif. Filed Apr. 20, 1953.

CARAM

For Latex Coated and Impregnated Sound-Absorbing and Vibration-Absorbing Material of Indiscriminate Form.
Claims use since Dec. 1, 1945.

Ser. No. 645,539. Caram Manufacturing Company, Monrovia, Calif. Filed Apr. 20, 1953.



For Latex Coated and Impregnated Sound-Absorbing and Vibration-Absorbing Material of Indiscriminate Form.
Claims use since Dec. 1, 1945.

Ser. No. 646,255. Attapulgus Minerals & Chemicals Corporation, Philadelphia, Pa. Filed May 1, 1953.



The words "Minerals," "Chemicals," and "Adsorbents" are disclaimed apart from the mark as shown on the drawing.

For Fuller's Earth Having Oil and Water Adsorption Properties for General Use in the Industrial Arts.
Claims use since Mar. 11, 1953.

Ser. No. 647,284. Myron M. Fuerst, Pine Plains, N. Y. Filed May 19, 1953.

Stamp of Approval*

For Livestock—Namely, Bulls and Heifers.
Claims use since May 1950.

Ser. No. 647,997. George F. Chester & Son, Inc., Valparaiso, Ind. Filed June 1, 1953.



The drawing is lined for red.
For Hybrid Popcorn Seed.
Claims use since Nov. 1, 1952.

Ser. No. 648,830. Art Crayon Co. Inc., Brooklyn, N. Y. Filed June 16, 1953.

ROBIN HOOD

Applicant claims ownership of Registration No. 500,376.
For Modeling Clay.
Claims use since 1947.

Ser. No. 649,583. Flexfirm Products, El Monte, Calif. Filed June 30, 1953.

PRE-IMP

For Glass Fiber Loaded Compound for Molding Plastic Articles.
Claims use since Aug. 15, 1951.

Ser. No. 649,668. Rohm & Haas Company, Philadelphia, Pa. Filed July 1, 1953.

PLEX

For Synthetic Resinous Materials in the Form of Sheets.
Claims use since in or about September 1949.

Ser. No. 649,899. Pfister & Vogel Tanning Co., Milwaukee, Wis. Filed July 6, 1953.

CORSAIR

For Leather.
Claims use since May 8, 1953.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 591,880. The Cook Coffee Company, Cleveland, Ohio. Filed Jan. 6, 1950. (Sec. 2f.)



The words "Coffee" and "Company" are disclaimed.
For Self-Polishing Floor Wax; and Scouring Cleaner.
Claims use since March 1935.

Ser. No. 639,740. Cleveland Finecraft, Incorporated, Cleveland, Ohio. Filed Dec. 19, 1952.



The word "Bond" is disclaimed apart from the mark as shown in the drawing.
For Diamond Grinding Wheels.
Claims use since Nov. 1, 1952.

Ser. No. 645,177. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Apr. 13, 1953.

WETORDRY

Applicant claims ownership of Registrations Nos. 404,200 and 167,713.
For Polishing Sheet or Strip Material (Frequently Sold in the Form of Endless Belts) Comprising a Flexible Backing Upon Which Is Bonded a Layer of Resilient Particles.
Claims use since at least as early as Jan. 23, 1952.

Ser. No. 645,178. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Apr. 13, 1953.



Applicant claims no registration rights in the word "Company" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 561,157, 533,115, and 56,397.
For Polishing Sheet or Strip Material (Frequently Sold in the Form of Endless Belts) Comprising a Flexible Backing Upon Which Is Bonded a Layer of Resilient Particles.
Claims use since at least as early as Jan. 23, 1952.

CLASS 5

ADHESIVES

Ser. No. 619,814. Dow Corning Corporation, Midland, Mich. Filed Oct. 10, 1951. (Sec. 2f.)

DOW CORNING

Applicant claims ownership of Registration No. 576,946.
For Organosiloxane Adhesives for Varnished Electrical Tapes and for Pressure-Sensitive Tapes and for Bonding Elastomers to Metals.
Claims use since Mar. 1, 1943 on analogous goods, and since Sept. 16, 1947 on the goods specified.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 623,808. Phillips Products, Chicago, Ill. Filed Jan. 19, 1952.

Negastat

For Static Dust Preventive Which Is Used for Coating Surfaces and the Like To Eliminate Static Electricity Accumulations and To Repel Dust Therefrom.
Claims use since May 29, 1951.

Ser. No. 627,560. Dictaphone Corporation, Bridgeport, Conn. Filed Apr. 4, 1952.

DICTASTAT

For Organic Chemical Compounds for Inclusion in or Application to the Surface of Substantially Non-Conductive Materials To Prevent the Accumulation Thereon of Electro-Static Charges.
Claims use since Jan. 24, 1952.

Ser. No. 628,070. Turco Products, Inc., Los Angeles, Calif. Filed Apr. 14, 1952.

chek-spek

For Chemical Preparations for a Dye-Penetrant and for a Dye-Penetrant Developer.
Claims use since Feb. 12, 1952.

Ser. No. 628,378. S. H. Victor, doing business as Ames Chemical Company, Detroit, Mich. Filed Apr. 19, 1952. (Sec. 2f as to "Ames.")



The drawing is lined for the colors blue and red but the mark is not limited to such colors and no claim is made thereto.
For Chemical Preparation Used as a Chrome Preservative and Rust Preventive.
Claims use since Mar. 18, 1952.

Ser. No. 633,383. Louis J. Stern, doing business as Post Institute, New York, N. Y. Filed Aug. 1, 1952.

MICROSONIC

For Human Hair Colloids in Liquid Form.
Claims use since Nov. 10, 1949.

Ser. No. 633,387. Louis J. Stern, doing business as Post Institute, New York, N. Y. Filed Aug. 1, 1952.

ULTRASONIC

For Human Hair Colloids in Liquid Form.
Claims use since Nov. 10, 1949.

Ser. No. 634,105. Mineral Pigments Corporation, Muirkirk, Md. Filed Aug. 18, 1952.

TEXTURIZED

For Dry Color Pigments—Namely, Chrome Greens, Iron Blues, Phthalocyanine Blues and Greens and Carbon and Lampblacks.
Claims use since on or about Nov. 30, 1951.

Ser. No. 635,789. Theodore Schmidt, doing business as Reliable Supply Company, Milwaukee, Wis. Filed Sept. 25, 1952.

KIL-BAC

The syllable "Kil" is disclaimed apart from the mark as shown.
For Chemical Powder Used as a Sanitizer.
Claims use since Apr. 17, 1952.

Ser. No. 636,103. James G. Wiegerink, Ridley Park, Pa. Filed Oct. 2, 1952.

STAR SHEEN

For Chemical Preparation Useful as a Laundry Aid for Restoring the Finish to Fabrics.
Claims use since Aug. 19, 1952.

Ser. No. 641,157. Surface Protection Co., Cleveland, Ohio. Filed Jan. 22, 1953.



The words "Repel Water With" are disclaimed apart from the mark as shown.
For Silicone-Base Transparent Water Repellent Liquid for the Surface Treatment of Fabrics, Textiles, Clothing, Leather Paper, and the Like.
Claims use since Sept. 10, 1952.

Ser. No. 641,848. Lefevre Chemical Co., Oklahoma City, Okla., and Dallas, Tex., assignor to Le Fevre Chemical Co., Oklahoma City, Okla., a corporation of Oklahoma. Filed Feb. 6, 1953.



For Liquid Deodorant of the Evaporative Type for Household and Industrial Use.
Claims use since Oct. 30, 1952.

Ser. No. 641,902. Bio-Compounds Co., Chicago, Ill. Filed Feb. 9, 1953.

C. L. R. S.

For Chemical Compounds Used by Anti-Biotic Manufacturers as an Ingredient in the Formulation of Their Media, as a Source of Nutrition for the Molds Used in the Deep Culture Process Wherein It Serves Also as a Defoaming Agent.
Claims use since August 1951.

Ser. No. 642,265. Chicago Sanitary Products Co., Chicago, Ill. Filed Feb. 16, 1953.

MISTO KLEEN

No claim is made to the exclusive use of the term "Kleen" apart from the mark as shown in the drawing.
For Space Spray and Space Deodorant.
Claims use since July 1951.

Ser. No. 642,280. Vern Jones, doing business under the fictitious name and style of Vern Jones Technical Research, Encino, Calif. Filed Feb. 16, 1953.

FURTEC

For Aid in Preventing Fur Chewing for Chinchillas and Other Fur Bearing Animals.
Claims use since Jan. 4, 1952.

Ser. No. 642,281. Vern Jones, doing business under the fictitious name and style of Vern Jones Technical Research, Encino, Calif. Filed Feb. 16, 1953.

SANEX

For Fur Conditioner and Deodorant for Chinchillas and Other Fur Bearing Animals.
Claims use since Jan. 4, 1952.

Ser. No. 643,133. Zola Products Co., Inc., Miami, Fla. Filed Mar. 4, 1953.



For Powder Having Odor Destroying and Hygroscopic Qualities.
Claims use since Jan. 16, 1952.

Ser. No. 643,183. Port Fertilizer & Chemical Company, Los Fresnos, Tex. Filed Mar. 5, 1953.

PORT BRAND

The use of the word "Brand" is disclaimed, apart from the mark as shown.
For Insecticides.
Claims use since August 1941.

Ser. No. 643,211. Detrex Corporation, Detroit, Mich. Filed Mar. 6, 1953.

EXTRUDICOTE

For Phosphate Coatings Used in the Extrusion or Drawing of Metals for Bonding the Lubricant to the Surface of the Metal.
Claims use since October 1951.

Ser. No. 643,401. American Molding Powder and Chemical Corp., Brooklyn, N. Y. Filed Mar. 10, 1953.

AMPALLOY

Applicant claims ownership of Registration No. 405,709.
For Polymer and Co-Polymer Resins and Alloys Thereof, in the Form of Molding Powders.
Claims use since Dec. 8, 1952.

Ser. No. 643,733. Synthetic Chemicals, Inc., Paterson, N. J. Filed Mar. 16, 1953.

Sotex

For Chemicals for Use as a Grinding Aid for Dispersion of Pigments in Lacquers, Inks, and Protective Compositions, for Reducing Surface Tension, Wetting and Stabilizing Purposes and as a Solvent and Protective Colloid To Assist in Stabilizing Dispersions Against Coagulation or Flocculation, for Introduction With Plasticizers in Connection With Plastic Compositions, and as an Antistatic Agent.
Claims use since in or about the month of May 1945.

Ser. No. 645,120. A. B. Dick Company, Niles, Ill. Filed Apr. 13, 1953. (Sec. 2f.)

A·B·DICK

Applicant claims ownership of Registration No. 554,177.
For Liquids for Use in a Duplicating Process Wherein Copy Sheets Are Wet on the Surface With the Liquid and Brought Into Contact With an Image on a Master Sheet.
Claims use since Mar. 19, 1952.

Ser. No. 646,910. West End Chemical Company, Oakland, Calif. Filed May 12, 1953. (Sec. 2f.)

F.M.SMITH

For Borax.
Claims use since 1921.

Ser. No. 647,120. Wilson & Toomer Fertilizer Co., Jacksonville, Fla. Filed May 15, 1953.

PERK

For Agricultural Spray or Dust Having Insecticidal and Fungicidal Properties With Incidental Nutritional Properties.
Claims use since May 1, 1953.

Ser. No. 647,378. Thompson-Hayward Chemical Company, Kansas City, Mo. Filed May 20, 1953. (Sec. 2f as to "Thompson-Hayward.")



The representation of the man shown in the trade-mark is fanciful. The words "Another," "Product," and "Chemical Co." are disclaimed apart from the mark as shown.
For Herbicides, Insecticides, Fungicides, Rodenticides, Fumigants, and Disinfectants.
Claims use since February 1945 as to the mark shown; since February 1945 as to "Thompson-Hayward"; and since March 1933 as to the circular emblem and scrollwork featuring the letters "T-H."

Ser. No. 647,787. Marbon Corporation, Gary, Ind. Filed May 27, 1953.



Applicant claims ownership of Registration No. 557,329.
For Synthetic Resins in Plastic, Solid, and Powder Forms for Use in the Industrial Arts.
Claims use since on or about Dec. 29, 1948.

Ser. No. 649,007. Luseaux Laboratories, Inc., Gardena, Calif. Filed June 18, 1953.

LUSEAUX

LUSO

Applicant claims ownership of Registration No. 240,923.
For Preparations Having Sanitizing, Deodorizing, and Germicidal Properties for General Household, Industrial, and Farm Uses.
Claims use since April 1949.

CLASS 7

CORDAGE

Ser. No. 617,478. American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Filed Aug. 9, 1951.



The mark consists of a red yarn and a green yarn disposed longitudinally and forming a structural part of the rope or cable, appearing at regular intervals at the surface of the completed rope or cable. The drawing is lined for the colors red and green.
For Hard Fibre Rope.
Claims use since March 1933.

Ser. No. 624,863. Shuford Mills, Incorporated, Hickory, N. C. Filed Feb. 12, 1952.

SHAMROCK

For Cotton Braided Clothes Lines.
Claims use since Oct. 17, 1949.

Ser. No. 644,131. Mission Cordage Co., Sepulveda, Calif. Filed Mar. 24, 1953.

El Camino BRAND

The words "Brand" and "San Fernando" are disclaimed apart from the mark as shown.
For Twine.
Claims use since Dec. 4, 1952.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 647,570. Zippo Manufacturing Company, Bradford, Pa. Filed May 22, 1953.

ZIP-A-Flint

Applicant disclaims the word "Flint" apart from the entire mark as shown. Applicant claims ownership of Registrations Nos. 317,219 and 432,131.
For Pocket Flint Dispenser Containing Flints.
Claims use since May 7, 1951.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 621,126. Balfour, Guthrie & Co., Limited, San Francisco, Calif. Filed Nov. 13, 1951.

PHEASANT

For Firecrackers.
Claims use since on or about Dec. 1, 1933.

Ser. No. 638,955. Federal Cartridge Corporation, Minneapolis, Minn. Filed Dec. 4, 1952.

MONARK

Applicant claims ownership of Registration No. 509,767.
For Air Rifle Shot.
Claims use since Aug. 21, 1952.

Ser. No. 643,615. Giuseppe Russo, Stamford, Conn. Filed Mar. 13, 1953.

"CLICK"

For Book Matches.
Claims use since Mar. 4, 1953.

CLASS 10

FERTILIZERS

Ser. No. 634,942. International Minerals & Chemical Corporation, Chicago, Ill. Filed Sept. 6, 1952.

FOUR LEAF

For Powdered Phosphate Rock for Use as a Fertilizer.
Claims use since July 29, 1921.

Ser. No. 634,943. International Minerals & Chemical Corporation, Chicago, Ill. Filed Sept. 6, 1952.



For Powdered Phosphate Rock for Use as a Fertilizer.
Claims use since July 29, 1921.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 628,372. Texlite, Incorporated, Dallas, Tex. Filed Apr. 19, 1952.

TEXLITE

Applicant claims ownership of Registration No. 396,092.
For Porcelain Coated Metal Sheets.
Claims use since July 1, 1931.

Ser. No. 630,071. Hachmeister-Inc., Pittsburgh, Pa. Filed May 22, 1952.

Vinylflex PLASTIC FLOOR TILE

No claim is made to the words "Plastic Floor Tile" apart from the mark as shown on the drawing.
For Plastic Floor Tile.
Claims use since Aug. 21, 1951.

Ser. No. 633,766. Great Lakes Carbon Corporation, New York, N. Y. Filed Aug. 12, 1952.

NOX

For Massive Synthetic Carbon or Graphite Blocks or Bricks Which Are Impregnated or Coated With Inorganic, Oxidation-Resistant Compounds, Said Blocks or Bricks Being Useful in the Construction of Molds or Casting Beds in the Casting of Hot or Molten Metals and Refractory Compositions.
Claims use since Mar. 1, 1951.

Ser. No. 633,867. Owens-Corning Fiberglas Corporation, Toledo, Ohio. Filed Aug. 13, 1952.

AE-F

For Insulating Bats, Boards, and Slabs of Fibrous Glass.
Claims use since June 1949.

Ser. No. 633,868. Owens-Corning Fiberglas Corporation, Toledo, Ohio. Filed Aug. 13, 1952.

PF

For Insulating Bats, Boards, and Slabs of Fibrous Glass.
Claims use since November 1939.

Ser. No. 633,869. Owens-Corning Fiberglas Corporation, Toledo, Ohio. Filed Aug. 13, 1952.

AE

For Insulating Bats, Boards, and Slabs of Fibrous Glass.
Claims use since March 1942.

Ser. No. 633,870. Owens-Corning Fiberglas Corporation, Toledo, Ohio. Filed Aug. 13, 1952.

TW-F

For Insulating Bats, Boards, and Slabs of Fibrous Glass.
Claims use since November 1939.

Ser. No. 634,208. Mundet Cork Corporation, North Bergen, N. J. Filed Aug. 20, 1952. (Sec. 2f.)

MUNDET

Applicant claims ownership of Registration No. 441,176.
For Cork Insulation, Cork Boards; and Cork Pipe Covering; Brine Putty, Composed of Asphaltum and Mixed Cork, and Used for Filling Spaces Between Pipes and Pipefitting Covers on Pipes and Valves; and Plastic Asphalt Mixture Seam Filler for Filling Seams, Joints, Slits, or Other Crevices in Pipe Coverings, Wall Boards, or Similar Articles.
Claims use since in or about November 1924.

Ser. No. 644,765. Alexander H. Kerr and Company, Incorporated, Los Angeles, Calif. Filed Apr. 6, 1953.

RIPPOLITE

For Mastic Compound or Preparation for Joining Glass Fiber Reinforced Plastic Panels and Other Materials.
Claims use since Mar. 24, 1953.

Ser. No. 649,995. Kentile, Inc., Brooklyn, N. Y. Filed July 8, 1953.

THE KENFLEX SAMPLER

The words "The," "Flex," and "Sampler" are disclaimed apart from the mark shown. Applicant claims ownership of Registrations Nos. 336,151, 344,245, and others.
For Floor Tile Composed in Part of Asphalt and Vinyl Plastic.
Claims use since June 1, 1953, as to the mark shown; and since Jan. 29, 1953, as to the mark "KenFlex."

Ser. No. 650,455. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed July 17, 1953.

SCOTCH-CALK

Applicant claims ownership of Registrations Nos. 575,236, 573,560, and others.
For Calking Compound.
Claims use since Dec. 12, 1952.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 594,766. Engineered Products Company, Flint, Mich. Filed Mar. 28, 1950. (Sec. 2f.)

SNUG-TITE

For Door Hardware, Namely, Catches.
Claims use since May 1946.

Ser. No. 625,638. The A. P. Smith Manufacturing Company, East Orange, N. J. Filed Feb. 27, 1952.



For Pipe Valves, Pipe Sleeves, Pipe Couplings, Pipe Cocks, Hydrants, and Metallic Parts Thereof and Metallic Fittings Therefor.
Claims use since Mar. 30, 1911.

Ser. No. 636,815. Ernest Sohn Creations, Incorporated, New York, N. Y. Filed Oct. 17, 1952.

WITTCROSSE

For Metal Buffet and Serving Accessories—Namely, Chafing Dishes, Casseroles, Samovars, Food Warmers, Serving Trays, Lazy Susans.
Claims use since Aug. 15, 1951.

Ser. No. 646,550. Hanna Engineering Works, Chicago, Ill. Filed May 6, 1953. (Sec. 2f.)

Unitite

For Valves—Namely, Hand Operated Valves for Direct Control of Pneumatic or Hydraulic Power Cylinders.
Claims use since on or about Jan. 1, 1932.

Ser. No. 646,772. David F. Jorgensen, Altadena, Calif. Filed May 11, 1953.

HAPPY PAINTER

For Portable Pouring Spout Incorporating a Brush Support, for Attachment to Paint Cans.
Claims use since Apr. 23, 1953.

Ser. No. 647,983. The American Art Works, Inc., Coshocton, Ohio. Filed June 1, 1953.

SOCIAL SUPPER

Applicant claims ownership of Registrations Nos. 357,990 and 280,213.
For Serving Trays of Metal Other Than Precious Metal.
Claims use since Apr. 15, 1930.

Ser. No. 648,480. Bud-Mel Mfg. Co., Middletown, Ohio. Filed June 9, 1953.

HOCUP

The word "Cup" is disclaimed apart from the mark shown.
For Individual Cup Holding Clamps for Hanging From a Supporting Surface.
Claims use since Sept. 15, 1952.

Ser. No. 649,936. General Zipper Corp., Long Island City, N. Y. Filed July 7, 1953.

GENERAL

Applicant claims ownership of Registration No. 532,878.
For Slide Fasteners.
Claims use since on or about Aug. 1, 1948.

Ser. No. 650,019. Vibrex Fastener Co., Stamford, Conn. Filed July 8, 1953.

VIBREX VIBREX

For Panel Fasteners for Releasably Fastening Panels or Similar Members to a Base, and Components of Said Panel Fasteners.
Claims use since February 1952.

Ser. No. 650,062. Merle Moore, doing business as Moore's Distributing Agency, Corvallis, Oreg. Filed July 9, 1953.

Moraqua

For Float Valves.
Claims use since Dec. 8, 1952.

Ser. No. 650,431. Driv-Lok Pin Company, Sycamore, Ill. Filed July 17, 1953. (Sec. 2f.)

DRIV-LOK

Applicant claims ownership of Registration No. 557,080.
For Self Locking Metallic Pins, for Use (A) as a Pivot or Hinge Connector Between Two Members; (B) To Provide a Rigid Connection Between Two or More Members; (C) as a Hand Grip; and (D) as Dowels or Guides for Alignment of Members or Providing Quick Detachable Association of Members.
Claims use since at least as early as Nov. 15, 1947.

Ser. No. 650,481. Bostitch, Inc., Providence, R. I., and Pawcatuck, Stonington, Conn. Filed July 20, 1953.

B8

For Staples for Tacking, Stitching, and Binding.
Claims use since Feb. 14, 1940.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 651,303. United American Metals Corporation, Brooklyn, N. Y. Filed Aug. 3, 1953.

UNICORN

For Non-Ferrous Metal Comprising an Alloy Containing Zinc.
Claims use since July 9, 1953.

Ser. No. 651,346. Dorothy B. Migell, doing business under the name of Atlantic Battery Company, Watertown, Mass. Filed Aug. 4, 1953.

Telversil

For Storage Battery Grid Alloy.
Claims use since June 23, 1953.

CLASS 15

OILS AND GREASES

Ser. No. 624,973. Rubicon, Inc., New York, N. Y. Filed Feb. 14, 1952.

PINE-O-LITE

For Fuel Oil.
Claims use since Nov. 29, 1951.

Ser. No. 638,232. Wynn Oil Company, Azusa, Calif. Filed Nov. 17, 1952.

FRICTION PROOFING

The drawing is lined for red. Applicant disclaims the words "Friction Proofing" apart from the mark shown in the accompanying drawing.
For Lubricating Oil Additives.
Claims use since Feb. 26, 1945.

Ser. No. 647,077. Charles H. Knight, San Francisco, Calif. Filed May 15, 1953.

LUB-O.K.

For Dry Lubricant (Water Ground, Silicate of Aluminum).
Claims use since Apr. 1, 1948.

Ser. No. 647,562. Sun Oil Company, Philadelphia, Pa. Filed May 22, 1953.

DYNASOL

Applicant claims ownership of Registrations Nos. 410,457, 439,106, and others.
For Detergency Additive Concentrate for Lubricating Oils.
Claims use since Apr. 23, 1953.

Ser. No. 650,194. Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Filed July 13, 1953.

COLOR FOUNTAIN

For Candles.
Claims use since Apr. 20, 1953.

Ser. No. 650,195. Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Filed July 13, 1953.

FLIK-IT

For Candles.
Claims use since July 21, 1952.

Ser. No. 650,196. Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Filed July 13, 1953.

GEM

For Candles.
Claims use since July 1, 1925.

Ser. No. 650,197. Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Filed July 13, 1953.

GROTTO

For Candles.
Claims use since Dec. 11, 1925.

Ser. No. 650,200. Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Filed July 13, 1953.

REMEMBRANCE

For Candles.
Claims use since May 20, 1950.

Ser. No. 650,201. Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Filed July 13, 1953.

WONDERLAND

For Candles.
Claims use since June 8, 1953.

Ser. No. 650,320. Quaker Chemical Products Corporation, Conshohocken, Pa. Filed July 15, 1953.

MICROMUL

Applicant claims ownership of Registration No. 425,154.
For Lubricating and Cutting Compositions Containing Oils, Fats, Organic Chemicals, and Waxes Which Are Soluble or Emulsifiable in Water and Which Are Used in Metal Machining and Grinding Operations.
Claims use since Dec. 14, 1945.

Ser. No. 650,824. Metal Lubricants Co., Chicago, Ill. Filed July 24, 1953.

MELKUT

For Oil Which Is Used in Machining Various Metals Such as in Cutting, Tapping, Threading, and Broaching Operations.
Claims use since about July 1946.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 608,719. Silicone Waterproofing Corporation, also trading under the name of Silicone Waterproofing Corp., New Orleans, La. Filed Jan. 12, 1951.

GLASSSEAL 35

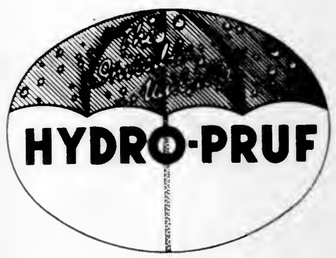
No claim is made to the word "Seal" apart from the mark as shown.
For Waterproofing Coating Compound Having a Silicone Base To Be Used To Waterproof Masonry Structures.
Claims use since Oct. 25, 1950.

Ser. No. 626,584. Benjamin Moore & Co., New York, N. Y. Filed Mar. 17, 1952. (Sec. 2f.)

Moore's

Applicant claims ownership of Registration No. 31,906.
For Protective and Decorative Coatings—Namely, Calcimine, Ready Mixed Paint, Liquid Paint, Paste Paint, Semi-Paste Paint, Varnish, Stains, Enamel, Transparent Glazing Liquid in the Nature of a Varnish for Producing Glazed Effects Upon Painted Surfaces, Surface Primers, Red Lead Paint, Floor Finish in the Nature of a Varnish for Sealing and Preserving Floor Surfaces, Wood Filler in the Nature of a Composition Comprising a Pigment and Vehicle for Treating Wooden Surfaces Preparatory to the Application of Paint, Varnish or Shellac, Colors in Oil, and Mixing Oil for Reinforcing Paint.
Claims use since 1883.

Ser. No. 631,714. Arkansas Company, Inc., Newark, N. J. Filed June 25, 1952. (Sec. 2f as to "Hydro-Pruf.")



The lining appearing upon the umbrella is a part of the mark and does not function to indicate color. The applicant disclaims as descriptive the representation of the umbrella and also the phrase "The Invisible Umbrella." Applicant claims ownership of Registration No. 354,983.
For Silicone Containing Water-Repellent Coating, Surfacing, and Impregnating Compositions.
Claims use since May 1, 1952, as to the mark shown; and since Dec. 1, 1936, as to the mark "Hydro-Pruf."

Ser. No. 640,230. Saran Protective Coatings Co., Ferndale, Mich. Filed Dec. 31, 1952.



The drawing is lined for blue.
For Acid and Alkali Resisting Rubber Base Protective Coating for Steel, Wood, Masonry, and the Like, and Thinners for the Same.
Claims use since Sept. 29, 1952.

Ser. No. 644,555. Keystone Paint and Varnish Corporation, Brooklyn, N. Y. Filed Apr. 1, 1953.

Keystone

Applicant claims ownership of Registrations Nos. 55,505, 62,662, and others.
For Paints, Painters' Materials and Protective and Decorative Coatings—Namely, Ready-Mixed Paints, Both Oil Base Paints and Water Paints, for Interior Use and Exterior Use, Paste Paints, Enamel Paints, Aluminum Paints, Latex Paints, Colors in Oil, Tinting and Blending Colors, Flat Wall Finishes, Alkyd Finishes, Waterproof Finishes, Satin Sheen Wall Finishes, Gloss Interior Wall Finishes, Odorless Interior Finishes, Finishing Products Containing Paint and Varnish, Varnishes, Japans, Lacquers, Primers, Fillers, Paint, Varnish, Enamel or Similar Type Driers.
Claims use since in about 1867.

Ser. No. 645,665. Pittsburgh Coke & Chemical Company, Pittsburgh, Pa. Filed Apr. 21, 1953.



No claim is made to the word "Co." apart from the other features of the mark. Applicant claims ownership of Registrations Nos. 538,653, 542,977, and 551,556.
For Paints and Coating Compositions Adapted for the Coating of Metals and Other Surfaces and To Afford Protection Against Corrosion—Namely, Hot Applied Coal Tar Base Coatings, Cold Applied Coal Tar Base Coatings, Alkyd Base Coatings, Chlorinated Rubber Base Coatings, Vinyl Base Coatings, and Phenolic Base Coatings.
Claims use since Feb. 14, 1951.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 586,361. René Prévost, Ville Mont-Royal, Quebec, Canada, assignor to Cedino (Canada) Ltd., Ville St. Michel, Quebec, Canada. Filed Oct. 15, 1949.

Bromo Cedin

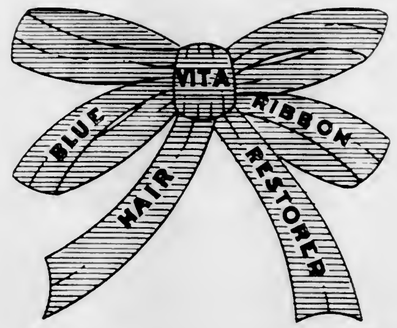
No claim is made for the word "Bromo." Priority under Sec. 44(d). Canadian application filed Oct. 14, 1949, Reg. No. 33,479.
For Carbonated Water for Headache and Neuralgia Contained in Small Bottles.

Ser. No. 611,523. Keith-Victor Pharmacal Co., St. Louis, Mo. Filed Mar. 19, 1951.

DRI-SEAL

For Medicinal Preparations—Namely, Aminophylline, Ammonium Chloride for Medicinal Use, Sodium Salicylate, Ferrous Sulfate for Medicinal Use, and Stilbestrol, and Tablets Containing the Same.
Claims use since Jan. 15, 1951.

Ser. No. 614,365. Herman J. Schalck, New Brunswick, N. J. Filed May 25, 1951.



The words "Hair Restorer" are disclaimed apart from the mark as used.
For Hair Restorer Compound for Internal Use.
Claims use since May 1, 1951.

Ser. No. 615,013. Geriampco, Tucson, Ariz. Filed June 11, 1951.

Geri AM

For Vitamin Supplement.
Claims use since May 8, 1951.

Ser. No. 615,014. Geriampco, Tucson, Ariz. Filed June 11, 1951.

Geri PM

For Anti-Acid Vitamin Supplement.
Claims use since May 8, 1951.

Ser. No. 615,561. Rosemarie Lewis, operating as Vogarell Products Company, Los Angeles, Calif. Filed June 22, 1951.

Gyno-Tric

For Medicinal Preparations—Namely, Antiseptic Liquids and Powders, Fungicides, Vaginal Jellies, Vaginal and Rectal Suppositories, Antiseptic Germicides, Remedial Skin Ointments, Healing Liquids for External Application, Rectal Ointments, Urinary Antiseptics, and Rash Lotions.
Claims use since June 29, 1950.

Ser. No. 621,102. Globe Laboratories, Fort Worth, Tex. Filed Nov. 10, 1951. (Sec. 2f.)

GLOBE LABORATORIES

The word "Laboratories" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 172,680, 540,325, and 564,898.

For Veterinary Preparations for the Treatment of Screw Worms, Ear Ticks, and Blackheads; Sulfa-Solution for Use in the Treatment of Pneumonia (Shipping Fever), Foot Rot in Cattle, Calf Diphtheria, and the Pneumonia-Enteritis Complex in Swine; Sulfaquinoxaline Solution for the Control and Prevention of Cecal and Intestinal Coccidiosis in Chickens, for Checking Immediate Mortality in Acute Fowl Cholera, and for the Control of Coccidiosis in Turkeys; Special Boluses for the Elimination of Tapeworms, Stomach Worms and Hook Worms; a Remedy for the Treatment of Calf Scour; Veterinary Purgative; and Hog Cholera Vaccine

Claims use since July 1941.

Ser. No. 622,968. Yahr-Lange, Inc., Milwaukee, Wis. Filed Dec. 28, 1951.

Y&L INSUL-ATOR

The lines in the drawing are not representative of color but are merely a feature of the mark.

For Medicine Metal Boxes Which Contain a Plurality of Tubes of Insulin.

Claims use since Nov. 15, 1951.

Ser. No. 625,893. The Distillers Company (Biochemicals) Limited, Liverpool, England, now by change of name Distaquaine Products Limited, assignor to The Distillers Company (Biochemicals) Limited, Liverpool, England, a limited liability company of Great Britain. Filed Mar. 4, 1952.

DISTIVIT

Applicant claims ownership of British Registration No. 694,823, dated Dec. 21, 1950.

For Vitamin Preparation.

Claims use since 1950 in Great Britain; and since Nov. 14, 1951, in commerce between Great Britain and the United States.

Ser. No. 628,807. David E. Brown, doing business under the firm name of The Kap-O-Lak Company, Baton Rouge, La. Filed Apr. 28, 1952.

KAP-O-LAK

For Vitamin and Mineral Tablets.

Claims use since Feb. 4, 1952.

Ser. No. 631,784. Benevim Corporation, New York, N. Y. Filed June 26, 1952.

BenuVim

For Medicinal Tonic To Improve the General Health.

Claims use since June 6, 1952.

Ser. No. 632,999. Schenley Laboratories, Inc., New York, N. Y. Filed July 24, 1952.

TITRASAL

Applicant claims ownership of Registrations Nos. 525,907 and 526,596.

For Pharmaceutical Product Containing a Combination of Antacid and Aspirin.

Claims use since Feb. 25, 1952.

Ser. No. 633,497. Knickerbocker Biologicals Inc., New York, N. Y. Filed Aug. 5, 1952.

PROTROL

For Dried Human Blood Plasma.

Claims use since May 1, 1952.

Ser. No. 635,922. Magnolia Pharmaceuticals, Inc., Jackson, Miss. Filed Sept. 29, 1952.

RIANJO

For Mineral Concentrate for the Treatment of Skin Irritations Including Athlete's Foot, Ringworm, Poison Ivy, Cuts, and Burns.

Claims use since Sept. 10, 1952.

Ser. No. 636,250. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Oct. 6, 1952.

Streptohydrazid

For Antibiotic Preparation Including Streptomycin and Derivatives Thereof.

Claims use since Aug. 29, 1952.

Ser. No. 636,550. Amerpol Associates, Chicago, Ill. Filed Oct. 13, 1952.

Amerpol

For Tablets To Help Relieve and Control Pain and Other Symptoms of Arthritis and Rheumatism.

Claims use since Oct. 1, 1951.

Ser. No. 636,966. Bristol Laboratories, Inc., New York and Syracuse, N. Y. Filed Oct. 22, 1952.

MIGROMYCIN

For Penicillin Derivative.

Claims use since Dec. 23, 1951.

Ser. No. 639,296. The Vitosol Corporation, Jersey City, N. J. Filed Dec. 10, 1952

SANTOVA

For Medicinal Preparation for the Relief of Symptoms of Epilepsy.

Claims use since Sept. 17, 1952.

Ser. No. 640,116. Fuller Pharmaceutical Company, Minneapolis, Minn. Filed Dec. 29, 1952.

Benadex

For Anesthetic Cream and Anesthetic Ointment for Temporary Relief of Pain and Itching Caused by Simple Hemorrhoids and for Other Uses as Directed by Physicians, Both of Said Products Utilizing as Principal Ingredients Small Amounts of Benzocaine, Aluminum Acetate, Extract Hamamelis, and Phenol in a Suitable Base.

Claims use since Oct. 25, 1951.

Ser. No. 640,528. The Ramol Company, Centerburg, Ohio. Filed Jan. 8, 1953.

RAMOL

For Ammonia Sulpho-Ichthyolate, an Antiseptic Intestinal Germicide Used Principally in the Treatment of Animals for Intestinal Disturbances.

Claims use since June 21, 1934.

Ser. No. 641,117. Bacon Products Company, Chattanooga, Tenn. Filed Jan. 22, 1953. (Sec. 2f.)

NOKOF

Applicant claims ownership of Registration No. 507,119.

For Cough Syrup.

Claims use since Oct. 22, 1947.

Ser. No. 641,406. Charlie R. Wells, Grygla, Minn. Filed Jan. 27, 1953.



The portrait of the girl in the drawing is fanciful. The words "Grygla's Mastitis Treatment" are disclaimed apart from the trade-mark shown in the drawing.

For Preparation for the Treatment of Cows Having Mastitis.

Claims use since Jan. 20, 1953.

Ser. No. 641,832. Erwin, James Company, Inc., New York, N. Y. Filed Feb. 6, 1953.

BELKATAL

For Pharmaceutical Preparations in Tablet and Liquid Form Containing a Compound of Bella Donna Alkaloids, Hyoscyamine Sulfate, Atropine Sulfate, Phenobarbital, and Hyoscine Hydrobromide, Useful as a Medication Where Antispasmodic and Sedative Results Are Desired.

Claims use since September 1947.

Ser. No. 642,081. A. P. Leon, doing business as a sole proprietor under the name Leon Associates, New York, N. Y. Filed Feb. 11, 1953.

FEE-DEE

For Vitamin Concentrate To Be Incorporated in Animal Feeds.

Claims use since Aug. 7, 1952.

Ser. No. 642,498. Texas Pharmacal Company, San Antonio, Tex. Filed Feb. 19, 1953.

VELVACHOL

For Preparation for Hydrophilic Ointment for the Treatment of Skin Disorders.
Claims use since January 1942.

Ser. No. 642,907. Schering Corporation, Bloomfield, N. J. Filed Feb. 27, 1953.

TRITUBIN

Applicant claims ownership of Registrations Nos. 529,940 and 542,792.
For Antitubercular Drug.
Claims use since Nov. 12, 1952.

Ser. No. 643,417. Gerber Products Company, Fremont, Mich. Filed Mar. 10, 1953. (Sec. 2f as to "Gerber's.")

Gerber's



The representation of the infant's head is an artistic drawing of a picture of Ann Turner Cook taken when a child and whose consent is of record. Applicant claims ownership of Registrations Nos. 310,224, 313,879, and others.
For Meat Base Formula Intended Principally for the Use of Infants and Young Children Who Are Allergic to Milk and To Be Prepared and Fed as Directed by the Physician.
Claims use since July 17, 1952, as to the composite mark shown; since Oct. 12, 1928, as to the surname "Gerber's"; and since Mar. 7, 1931, as to the picture.

Ser. No. 643,804. Vas. Woodhouse, doing business as Vas. Woodhouse Chemical Co., Merrick, N. Y. Filed Mar. 17, 1953.

CHLORO-SELTZER

The word "Seltzer" is hereby disclaimed apart from the mark as shown on the drawing.
For Effervescent Drink To Relieve Indigestion and for Breath Purification.
Claims use since Mar. 13, 1953.

Ser. No. 643,806. Joseph Agosta, Astoria, N. Y. Filed Mar. 18, 1953.

INAL

For Tonic for the Relief of Indigestion.
Claims use since May 15, 1952.

Ser. No. 644,386. David W. Bronson, doing business as Dr. Bronson Laboratories, New York, N. Y. Filed Mar. 30, 1953.

CAL-FLUR

For Fluoride Tablets for the Reduction of Dental Decay.
Claims use since June 19, 1951.

Ser. No. 646,893. Edwin M. Rabon, Tulsa, Okla. Filed May 12, 1953.

BENZO-PINE

No claim is made to the word "Pine" apart from the mark as shown in the drawing.
For Benzoin Inhalant for Vaporizers.
Claims use since October 1951.

Ser. No. 650,557. The Upjohn Company, Kalamazoo, Mich. Filed July 20, 1953.

Peneryth

For Medicinal Preparation Containing Antibiotics for the Treatment of Bacterial Infections.
Claims use since Mar. 5, 1953.

Ser. No. 650,637. Nutrex Company, Inc., Newark, N. J. Filed July 22, 1953.

Zarimide

For Tablet Preparation for the Relief of Symptoms of Arthritis and Rheumatism.
Claims use since June 29, 1953.

Ser. No. 650,728. Organon Inc., Orange, N. J. Filed July 23, 1953.

MENSTROGEN

For Medicinal Preparation Containing Ethinyl Oestradiol and Progesterone as Active Ingredients.
Claims use since May 25, 1953.

Ser. No. 650,820. The S. E. Massengill Company, Bristol, Tenn. Filed July 24, 1953.

SEMALDYNE

For Pharmaceutical Preparation Including Analgesic and Sedative Drugs Formulated To Render Smooth Analgesic Action.
Claims use since June 8, 1953.

Ser. No. 650,973. C & D Prescription Pharmacy, Texas City, Tex. Filed July 28, 1953. (Sec. 2f.)

DROZD 101

Applicant claims ownership of Registration No. 439,070.
For Nose Drops; Diuretic Compound, a Stimulant for the Kidneys; Rectal Ointment, a Temporary Treatment for Piles; Cold and Fever Capsules and Headache Due From Colds; Throat Lozenges; Laxative Pills; Liniment for Sore and Stiff Muscles, Muscular Cramps, Simple Neuralgia and the Like; Antacid Compound for Upset Stomach Caused by Excessive Acidity; Ointment for Relief of Athlete's Foot, Ringworm, Itch, and Poison Oak.
Claims use since Apr. 20, 1946.

Ser. No. 651,100. Fortevin Corporation, Staten Island, N. Y. Filed July 30, 1953.

FORTE-VINS

For Multiple Vitamin Capsules and Mineral Tablets.
Claims use since January 1951.

CLASS 19

VEHICLES

Ser. No. 622,850. Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Fribourg, Switzerland. Filed Dec. 26, 1951.

STABIFLOW

Priority under Sec. 44(d). Swiss application filed Nov. 6, 1951. Registration No. 140,038, dated Nov. 6, 1951.
For Hydraulic, Pneumatic, and Mechanical Shock Absorbers for Vehicles.

Ser. No. 652,191. Heckethorn Manufacturing & Supply Co., Littleton, Colo. Filed Aug. 24, 1953.

·HECO·

For Shock Absorbers for Vehicles.
Claims use since on or about Apr. 1, 1953.

Ser. No. 652,906. Tomlee Carrier Co., Oconto Falls, Wis. Filed Sept. 8, 1953.

TOMLEE CARRIER

No claim is made for the word "Carrier" apart from the mark shown.
For Boat and Luggage Carrier Adapted To Be Secured to the Top of an Automobile.
Claims use since Apr. 2, 1953.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 548,856. Sears, Roebuck and Co., Chicago, Ill. Filed Feb. 5, 1948. (Sec. 2f.).

J.C.Higgins

The mark is the name of a living individual, consent of record.
For Electric Bicycle Horns and Lights.
Claims use since July 15, 1946.

Ser. No. 556,936. Westinghouse Electric Corporation, East Pittsburgh, Pa. Filed May 12, 1948. (Sec. 2f as to "Westinghouse.")

WESTINGHOUSE SELECTOMATIC

Applicant claims ownership of Registration No. 299,083.
For Electric Elevators and Controls Therefor.
Claims use since Nov. 5, 1947, as to the mark shown; and since during or about 1915 as to the term "Westinghouse."

Ser. No. 584,278. Lincoln Radio & Television Corporation, Chicago, Ill. Filed Aug. 31, 1949. (Sec. 2f.)

LINCOLN

For Television Receiving Sets and Radio Receiving Sets of the Type Made and Sold for Use in Buildings (e. g., Console, Table Model, and Combination Receivers) and Hand Portable Sets, and Parts Thereof.
Claims use since June 15, 1922.

Ser. No. 602,734. U. S. Electrical Motors, Inc., Los Angeles, Calif. Filed Aug. 23, 1950.

U.S. VARITROL

The letters "U. S." apart from the mark as shown are disclaimed.
For Equipment Utilizing Electronic Controls and Switches for an Electric Motor Controller for the Starting, Stopping, Speed Controlling, and Reversing of Electric Motors.
Claims use since Dec. 12, 1949.

Ser. No. 609,105. Specialty Battery Company, Madison, Wis. Filed Jan. 22, 1951.

LAB-BILT

Without waiving any common-law rights thereto, applicant disclaims the term "Bilt" apart from the mark as shown.
For Dry Cells, Dry Cell Batteries, and Battery Packs.
Claims use since Mar. 30, 1950.

Ser. No. 611,210. American Gas Accumulator Company, Elizabeth, N. J., now by merger assignor to Elastic Stop Nut Corporation of America, a corporation of New Jersey. Filed Mar. 13, 1951.

AGA

For Time Delay Control Relays Comprising a Pneumatic Timing Head for Introducing a Time Delay Between an Actuating Impulse and the Apparatus Actuated Thereby.
Claims use since Aug. 17, 1927.

Ser. No. 611,211. American Gas Accumulator Company, Elizabeth, N. J., now by merger assignor to Elastic Stop Nut Corporation of America, a corporation of New Jersey. Filed Mar. 13, 1951.

AGASTAT

For Time Delay Control Relays Comprising an Actuating Solenoid Assembly, a Pneumatic Timing Head and Control Apparatus Actuated Thereby.
Claims use since May 10, 1933.

Ser. No. 611,213. American Gas Accumulator Company, Elizabeth, N. J., now by merger assignor to Elastic Stop Nut Corporation of America, a corporation of New Jersey. Filed Mar. 13, 1951.

AGASWITCH

Applicant hereby disclaims the word "Switch" apart from the mark shown.
For Time Delay Control Relays Comprising Mechanism for Transmitting an Actuating Impulse, a Pneumatic Timing Head Energized Thereby, and an Electric Switch Actuated by the Action of the Timing Head.
Claims use since Oct. 4, 1950.

Ser. No. 620,642. Wrought Iron Range Company, St. Louis, Mo. Filed Oct. 29, 1951.

Home Comfort

Applicant claims ownership of Registrations Nos. 61,357, 573,167, and 573,168.
For Electric Apparatus—Namely, Ranges, Dish Washers, Water Heaters, Toasters, Bun Warmers, and Combination Waffle and Sandwich Grills.
Claims use since Feb. 3, 1951.

Ser. No. 620,647. Wrought Iron Range Company, St. Louis, Mo. Filed Oct. 29, 1951.

HOME COMFORT

Applicant claims ownership of Registrations Nos. 61,357, 367,411, 573,167, and 573,168.
For Electric Apparatus—Namely, Ranges, Dish Washers, Water Heaters, Toasters, Bun Warmers, and Combination Waffle and Sandwich Grills.
Claims use since Feb. 3, 1951.

Ser. No. 625,873. The Wickes Corporation, Saginaw, Mich. Filed Mar. 3, 1952. (Sec. 2f as to "Mexican.")

MEXICAN TRADE MARK USG

The representation of a man is fanciful. The word "Trade-Mark" shown in the drawing is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 112,032 and 199,397.
For Carbon Brushes for Use on All Rotating Electric Equipment.
Claims use since Aug. 21, 1950, on the mark as shown; and since Jan. 1, 1893, on "Mexican."

Ser. No. 626,513. Jabez Burns & Sons, Inc., New York, N. Y. Filed Mar. 15, 1952.

THERMALO

Applicant claims ownership of Registrations Nos. 320,017, 323,171, and 439,677.
For Automatic Electric Heat Controls Comprised of Electric Circuits and a Recording and Controlling Thermometer, an Electric Timing Device, a Flame Failure Protective Device, and a Safety Type Solenoid Gas Valve Used With Coffee Roasting Apparatus.
Claims use since Mar. 7, 1952.

Ser. No. 628,159. Magnatran Incorporated, Kearny, N. J. Filed Apr. 16, 1952.

MAGNATRAN

For Electrical Apparatus—Namely, Transformers, Voltage Regulators, Electrical Switches, Electrical Inductances, Rectifiers, Reactors.
Claims use since August 1950.

Ser. No. 632,537. Walter L. Schott Co., Los Angeles, Calif. Filed July 14, 1952.

50 LINE

The word "Line" is disclaimed apart from the mark as shown on the drawing.
For Electrical Wiring Elements and Radio and Television Parts—Namely, Phonograph Motor Drives, Cord Strain Reliefs, Rubber Chassis Feet, Chassis Mounts, Rubber Chassis Bumpers, Terminal Lugs, Snap-Hole Plugs, Dial Cords, Dial Drive Springs, Cable Clamps, Fuse Clips, Grid Caps, Insulated Spacers, Fuse Insulators, Phonograph Terminal Tips, Phonograph Plugs, Jack Plugs, Speaker Dust Felts, and Dial Cord Clips.
Claims use since May 15, 1952.

Ser. No. 634,560. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Filed Aug. 27, 1952.

WATCH-CASE

For Circuit Interrupters.
Claims use since Apr. 30, 1952.

Ser. No. 636,917. Bantam-Lite, Inc., New York, N. Y. Filed Oct. 21, 1952.

FLIPPO

For Pocket Flashlights.
Claims use since Oct. 7, 1952.

Ser. No. 637,541. George E. Holmes, doing business under the name and style of George E. Holmes, Sarasota, Fla. Filed Nov. 3, 1952.

BUG MUG



The word "Bug" is disclaimed apart from the mark as shown.
For Electrical Vaporizer and Insect Trap.
Claims use since on or about June 1, 1952.

Ser. No. 637,564. Automatic Devices Company, Allentown, Pa. Filed Nov. 4, 1952.

TOM THUMB

For Electric Motor Operated Apparatus for Controlling Suspended Draperies.
Claims use since Jan. 21, 1952.

Ser. No. 638,853. Hudson American Corporation, New York, N. Y. Filed Dec. 2, 1952.

VIKING

For Marine Radio Transmitters and Receivers.
Claims use since Dec. 19, 1947.

Ser. No. 639,441. Rek-O-Kut Company, Long Island City, N. Y. Filed Dec. 13, 1952. (Sec. 2f.)

REK-O-KUT

Applicant makes no claim in this registration to the word "Kut" apart from the mark shown, reserving, however, all other rights in or to the same.
For Electrically Operated Sound Recording and Reproducing Machines.
Claims use since September 1939.

Ser. No. 640,579. Radio Receptor Company, Inc., Brooklyn, N. Y. Filed Jan. 9, 1953.

RR

Applicant claims ownership of Registration No. 204,658.
For Radio Receiving and Transmitting Sets, and Parts Thereof, Selenium Rectifiers, Electronic High Frequency Generators for Heating Dielectric Materials, Diodes, and Transistors.
Claims use since Jan. 1, 1922.

Ser. No. 643,373. Ray-O-Vac Company, Madison, Wis. Filed Mar. 9, 1953.

SPORTSMAN

For Flashlights and Flashlight Cases.
Claims use since Sept. 29, 1949.

Ser. No. 646,052. Caribe Electric Battery Corporation, Los Angeles, Calif. Filed Apr. 28, 1953.

CARIBE ELECTRIC BATTERY CORP. CARIBE ELECTRIC HEAVY DUTY TRANSPORT LOS ANGELES, CALIF. U.S.A.

The words "Electric Battery Corp.," "Electric," "Heavy Duty Transport," and "Los Angeles, Calif. U. S. A." are disclaimed apart from the mark as shown.
For Electrical Storage Batteries.
Claims use since Dec. 5, 1952.

Ser. No. 646,551. Hinners and Galanek Radio Corporation, Long Island City, N. Y. Filed May 6, 1953.

Cavalier

For Radio Receiving Sets, Phonographs, Television Receiving Sets, and Combinations Thereof.
Claims use since Apr. 20, 1953.

Ser. No. 646,658. Duro-Test Corporation, North Bergen, N. J. Filed May 8, 1953.

GOLD-O-MATIC

For Starting Switches for Fluorescent Lamps.
Claims use since Dec. 15, 1949.

Ser. No. 646,923. E. K. Cole Limited, Southend-on-Sea, Essex, England. Filed May 13, 1953.

Applicant claims ownership of British Registration No. B674,782, dated Nov. 23, 1948.
For Television Receivers and Radio Transmitters and Receivers.

Ser. No. 647,232. Rembrandt Lamp Corporation, Chicago, Ill. Filed May 18, 1953. (Sec. 2f.)

Rembrandt

Applicant claims ownership of Registrations Nos. 542,137, 549,261, and others.
For Electric Fans.
Claims use since June 1939.

Ser. No. 647,302. Lewis and Kaufman, Ltd., Los Gatos, Calif. Filed May 19, 1953.

LOS GATOS
LONG LIFE

For Electron Tubes.
Claims use since Nov. 15, 1951.

Ser. No. 647,564. Sunwarm, Inc., Kingsport, Tenn. Filed May 22, 1953.

SUNWARM

For Electric Radiant Heating Cables.
Claims use since May 1950.

Ser. No. 647,982. Rohden Manufacturing Co., Chicago, Ill. Filed May 29, 1953. (Sec. 2f.)

SHORT STOP

Applicant claims ownership of Registration No. 541,220.
For Circuit Breakers.
Claims use since Nov. 12, 1947.

Ser. No. 649,553. West Bend Aluminum Co., West Bend, Wis. Filed June 29, 1953. (Sec. 2f.)

CHEF WARE

For Coffee Urns Incorporating an Electric Heating Unit.
Claims use since July 1932.

Ser. No. 650,084. Allis-Chalmers Manufacturing Company, West Allis, Wis. Filed July 10, 1953.

ACPB

For Transformers and Parts Thereof.
Claims use since May 25, 1953.

Ser. No. 650,108. Kemlite Laboratories, Chicago, Ill. Filed July 10, 1953.

KEMLITE

For Gaseous-Discharge Flash Tubes.
Claims use since Jan. 15, 1949.

Ser. No. 650,283. Spirling Products Co., Inc., Hicksville, N. Y. Filed July 14, 1953.

Spico

For Television Antennas.
Claims use since on or about Jan. 15, 1946.

Ser. No. 650,310. Kemlite Laboratories, Chicago, Ill. Filed July 15, 1953.

K L

For Gaseous-Discharge Flash Tubes.
Claims use since June 15, 1951.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 643,032. Harry Edwards, trading as Harry's Ear-Tuned Duck Call, Minneapolis, Minn. Filed Mar. 3, 1953.

HARRY'S
EAR-TUNED
DUCK CALL

The head of the duck and the border of the printed matter are lined for green. No claim is made to the words "Duck Call" apart from the mark as shown.
For Duck Calls.
Claims use since Oct. 20, 1952.

Ser. No. 647,987. Brugay Inc., New York, N. Y. Filed June 1, 1953.

"Happy" The Circus Clown

Applicant disclaims "The Circus Clown" apart from the mark as shown.
For Miniatures—Namely, Clown Character Dolls.
Claims use since May 12, 1952.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 607,753. The Goss Printing Press Company, Chicago, Ill. Filed Dec. 16, 1950.

Dek-A-Tube

For Power Operated Printing Presses and Parts Thereof.
Claims use since July 14, 1950.

Ser. No. 607,755. The Goss Printing Press Company, Chicago, Ill. Filed Dec. 16, 1950.

Unitube

Applicant claims ownership of Registration No. 318,143.
For Power Operated Printing Presses and Parts Thereof.
Claims use since Aug. 1, 1950.

Ser. No. 609,171. Elisa Elsener, doing business as Messerfabrik Carl Elsener, Inhaberin E. Elsener, Ibach-Schwyz, Switzerland. Filed Jan. 24, 1951.

VICTORIA

For Cutlery—Namely, Pocket Knives, Razors, Carvers, Table Knives, Kitchen Knives, Slicing Knives, Paring Knives, Hunting Knives, Putty Knives, Linoleum Knives, Wall Scrapers, Spatulas, Baker Knives, Gardener Knives, Pruning Knives, and Claw Tongs and Knives, Farrier's Knives, Tobacco Knives.
Claims use since 1884 in Switzerland; and first used in commerce between Switzerland and the United States in 1920.

Ser. No. 611,635. Boyles Bros. Drilling Company Ltd., Vancouver, British Columbia, Canada. Filed Mar. 22, 1951.

WE LOOK INTO THE EARTH

The pictorial representation of the man is fanciful. Applicant disclaims the expression "We Look Into the Earth" apart from the mark as shown on the drawing.
For Drilling Equipment—Namely, Diamond Drills, Diamond Drill Bits, Motor Driven Pumps for Use With Water or Mud Fluids, Starting Barrels and Parts Thereof, Core Barrels and Parts Thereof, Blast Hole Drills and Parts Thereof, Non-Coring Bits and Reaming Shells and Parts Thereof, Core Pickers, Core Separators and Parts Thereof, Core Barrel Check Valves and Parts Thereof, Rod Check Valves, Drill Rods and Parts Thereof, Drill Pipes, Drill Pipe Assemblies and Parts Thereof, Elevator Plugs, Drill Rod Couplings, Substitutes, Drill Collars, Casing, Casing Bits and Shoes, Casing Protectors, Drill Rod to Casing Bushings, Casing Clamps, Drill Pipe Clamps, Bits; Casing Drive Shoes, Reaming Pilot Assemblies and Parts Thereof, Water Swivels and Parts Thereof, Hoisting Plugs and Parts Thereof, Lifting Bails, Come-Alongs, Brown Tongs and Parts Thereof, Stuffing Boxes and Parts Thereof, Holding Dogs and Parts Thereof, Lowering Irons and Parts Thereof, Foot Clamps, Jaw Clamps, Recovery Taps, Rod Spears, Rose Bits, Cross Chopping Bits, Offset Chopping Bits, Under Reamers and Casing Cutters and Parts Thereof, Casing Milling Cutters and Parts Thereof, Casing Cutters and Parts Thereof, Jar Weights and Parts Thereof, Pipe Drive Heads, Jar Collars, Pipe Drive Shoes, Sheave Wheels and Blocks, Foot Valves, Pump Relief Valve Assemblies and Parts Thereof, Pump Liner Pullers and Parts Thereof, Sprocket Pullers, Chain Link Extractors, Grease

Guns, Bailing Tubes and Parts Thereof, Soil Samplers, Deflecting Wedge Assemblies and Parts Thereof, Resampling Wedges, By Pass Wedge Assemblies and Parts Thereof, Bridging Plug Assemblies and Parts Thereof, Drilling Mud Mixers and Parts Thereof, Derricks, Casing Spiders and Parts Thereof, Drive Hammers and Drill Wedges, All for Use in Diamond Drilling Operations.

Claims use since Jan. 15, 1948.

Ser. No. 622,334. Frank T. Griswold, Jr., doing business under the name of F. T. Griswold Manufacturing Company, Wayne, Pa. Filed Dec. 11, 1951.

OPL

For Heads for Lathes, Tables for Lathes and Planers, Milling Machines.

Claims use since during 1936.

Ser. No. 624,894. Newton Automotive, Inc., Newton and Newton Center, Mass. Filed Feb. 13, 1952.

WORLD STANDARD PRODUCTS

The applicant disclaims the words "World Standard Products" and the representation of the automobile apart from the mark as shown.

For Replacement Parts for Automotive Vehicles—Namely, Clutch Assemblies, Water Pumps, Fuel Pumps, and Carburetors.

Claims use since July 1, 1946.

Ser. No. 625,815. Hyman B. Peck, Rochester, N. Y. Filed Mar. 1, 1952.



The drawing is lined for shading only. No claim is made to specific colors. The figure shown on the drawing is fanciful. For purposes of the present registration, applicant disclaims the exclusive right to the word "Handi" and the representation of the goods, apart from the mark.

For Pastry Boards, Known Also as Kitchen Boards, Used as a Base on Which To Roll Out Pie Crust or Other Pastry.

Claims use since Feb. 15, 1952.

Ser. No. 632,620. Kinetic Dispersion Corporation, Buffalo, N. Y. Filed July 16, 1952.

KADY

For Dispersion Mills for Dispersing Finely Divided Solid Materials in Liquid Suspension, Such as in the Preparation of Paint, Varnish, Lacquer, Printing Ink, and the Like.

Claims use since Nov. 1, 1951.

Ser. No. 641,760. The Bellows Co., Akron, Ohio. Filed Feb. 5, 1953.

Sensitorque

For Power-Operated Unit for Controlling the Torque Load on a Drill Press or Similar Machine.

Claims use since November 1951.

Ser. No. 642,386. Beacon Machinery, Inc., Centreville Township, St. Clair County, Ill. Filed Feb. 18, 1953.

Beacon

For Material Handling Equipment—Namely, Hydraulically and Pneumatically-Operated Tables for Lifting Sheet or Bulk Material To Facilitate Further Processing, Pneumatically or Hydraulically Operated Loading Dock Ramps for Vertical and/or Horizontal Positioning, and Ramps Provided With a Rollered Carriage for Travel Along, and Selected Positioning Upon, Loading Docks.

Claims use since Apr. 15, 1952.

Ser. No. 643,883. Ameurope, Inc., Jersey City, N. J. Filed Mar. 19, 1953.

GLOBE

For Hand- and Power-Operated Printing, Numbering, Marking Machines and Parts Thereof for Use in Printing and Numbering Invoices, Tickets, Documents, Labels, Coupons.

Claims use since February 1951.

Ser. No. 646,477. Theodore G. Kohl, Miami, Fla. Filed May 5, 1953.

"The Perfo"

For Kitchen Hand Tool for Perforating Pie-Crust Dough.

Claims use since Apr. 18, 1953.

Ser. No. 646,799. Joseph M. North, doing business as 6-Volt Lubricating Co., Arnold, Kans. Filed May 11, 1953.

Grease Master

The word "Grease" is disclaimed apart from the mark as shown.

For Portable Lubricating Units of the Type Having a Grease Reservoir and a Power Operated Pump for Delivering Grease From the Reservoir.

Claims use since October 1949.

Ser. No. 647,007. Charles J. Hoffman, doing business as Hoffman Company, York, Pa. Filed May 14, 1953.

KWIK-UP

No claim is made to the design in applicant's composite trade-mark apart from the mark shown in the drawing.

For Manually Operated Floor and Roof Steel-Blade Scrapers and Attachable, Renewable Blades Therefor.

Claims use since 1922.

Ser. No. 647,282. Federal Tool Corporation, Chicago, Ill. Filed May 19, 1953.

Mix-O-Lator

The term "Mix" is disclaimed except in association with the mark as shown.

For Hand Operated Beverage Mixer Which Might Be Used for Storing and Pouring the Mixed Beverage.

Claims use since Jan. 12, 1953.

Ser. No. 647,420. Interstate Drop Forge Company, Milwaukee, Wis. Filed May 21, 1953.

Hardy

The lining as shown on the mark is for shading and not to indicate the color brown.

For Hand Tools—Namely, Bolt, Rivet, and Wire Cutters, Shears, Squeezers, Tongs, Button Presses, and Punches.

Claims use since Nov. 13, 1952.

Ser. No. 647,421. Interstate Drop Forge Company, Milwaukee, Wis. Filed May 21, 1953.

hardy

For Hand Tools—Namely, Bolt, Rivet, and Wire Cutters, Shears, Squeezers, Tongs, Button Presses, and Punches.

Claims use since Nov. 13, 1952.

Ser. No. 649,102. Textile Machine Works, Reading, Pa. Filed June 19, 1953.

TMW

Applicant claims ownership of Registration No. 372,034.

For Yarn Guide, Sinker, and Separator Point Units of Tricot and Warp Knitting Machines.

Claims use since Oct. 10, 1952.

Ser. No. 649,482. Construction Machinery Company, Waterloo, Iowa. Filed June 29, 1953.

TRANSCRETE

For Concrete Mixers Adapted To Be Mounted on Trucks.

Claims use since on about June 1, 1950.

Ser. No. 649,522. Lapp Insulator Company, Inc., Leroy, N. Y. Filed June 29, 1953. (Sec. 2f.)

Lapp

For Chemically-Resistant Pumps.

Claims use since November 1946.

Ser. No. 649,699. General Motors Corporation, Detroit, Mich. Filed July 2, 1953. (Sec. 2f.)

ROCHESTER

For Carburetors and Parts Thereof.

Claims use since December 1948.

Ser. No. 649,743. The Western Tool & Manufacturing Company, Springfield, Ohio. Filed July 2, 1953.

CHAMPION

For Mandrels.

Claims use since Oct. 11, 1905.

Ser. No. 649,778. The Fosdick Machine Tool Co., Cincinnati, Ohio. Filed July 3, 1953.

BF

For Spindles Particularly Adapted for Use in Jig Boring Machines.

Claims use since June 18, 1953

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 651,134. Southern Mills, Inc., Atlanta, Ga. Filed July 30, 1953.

SouLon

For Woven Fabric Covers for Flatwork Ironers, Presses, and Domestic Ironing Boards.
Claims use since on or about Nov. 8, 1952.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 590,600. Instrument Development Laboratories, Inc., Needham Heights, Mass. Filed Jan. 10, 1950.

THE PPG-IDL COLOR-EYE

The word "Color" is disclaimed separate and apart from the combination of words and letters shown in the mark.
For Photo-Electric Optical Instrument for Analyzing and Matching Colors.
Claims use since June 5, 1948.

Ser. No. 628,405. Instrument Development Laboratories, Inc., Needham Heights, Mass. Filed Apr. 21, 1952.

Colorede

For Photo-Electric Colorimetric Apparatus for Controlling Production, Processing, and Printing Machinery, Wherein the Color of or Light From the Articles or Materials Being Processed Are Matched From Some Given Standard Article or Material.
Claims use since Nov. 26, 1951.

Ser. No. 637,145. Optische Werke C. A. Steinheil Söhne G. m. b. H., Munich, Germany. Filed Oct. 24, 1952. (Sec. 2f.)

STEINHEIL MÜNCHEN

Applicant disclaims the word "München" except as used in connection with the mark as shown. Applicant claims ownership of German Registration No. 600,946, dated Aug. 30, 1950.
For Optical Lenses, Photographic Objectives, Telescope Objectives, Projecting Objectives, Photographic Cameras, Telescopes, Field Glasses, Spectrographs, Lenses, Objectives and Other Optical Vitreous Goods Coated With Interference Layers for the Purpose of Diminishing or Increasing Reflections From Surfaces, and for the Purpose of Filtering or Transmitting Heat.
Claims use as shown since June 1946, and since December 1946 in commerce between foreign nations and the United States; as to the word "Steinheil," since 1855, and since 1884 in commerce between foreign nations and the United States.

Ser. No. 649,107. The Visionez Corporation, St. Cloud, Minn. Filed June 19, 1953. (Sec. 2f.)

VISIONEZ

For Eyeglass Lens Blanks.
Claims use since 1941.

Ser. No. 649,237. Jorgen S. Lien, New York, N. Y. Filed June 23, 1953.

REGNA

For Cash Registers.
Claims use since Dec. 11, 1952.

Ser. No. 649,586. General Aniline & Film Corporation, New York and Binghamton, N. Y. Filed June 30, 1953.

CARD-ETTE

For Light-Sensitive Photographic Paper.
Claims use since May 27, 1953.

Ser. No. 649,613. Robertson Photo-Mechanix, Inc., Chicago, Ill. Filed June 30, 1953.

SHOOTING STAR

For Cameras.
Claims use since on or about May 14, 1953.

Ser. No. 649,889. Arthur D. Little, Inc., Cambridge, Mass. Filed July 6, 1953.

ADRAD

For Electronic Computing Apparatus.
Claims use since Dec. 10, 1952.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 626,920. Trifari, Krussman & Fishel, Inc., Providence, R. I., and New York, N. Y. Filed Mar. 22, 1952.

Orientique by TRIFARI

The words "By Trifari" are disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 357,174, 393,719, and others.
For Pearl Jewelry for Personal Wear, Not Including Watches—Namely, Strings of Pearls, Pearl Earrings, Pearl Brooches, Pearl Necklaces, Pearl Bracelets.
Claims use since January 1950.

Ser. No. 634,620. Robert Fleischer, New York, N. Y. Filed Aug. 7, 1952.

Vari-jewels

The descriptive term "Jewels" is disclaimed.
For Costume Jewelry—Namely, Pins, Earrings, Necklaces, and Brooches.
Claims use since Apr. 1, 1952.

Ser. No. 649,780. Gemex Company, Union, N. J. Filed July 3, 1953.

GRANDEE

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since June 23, 1953.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 650,041. Edco International Corporation, Detroit, Mich. Filed July 9, 1953.

TONE MASTER

For Wiping Cloths for Wiping Phonograph Records and Sound Recording Tapes.
Claims use since on or about Mar. 1, 1953.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 636,017. Jet-Heet, Inc., Englewood, N. J. Filed Oct. 1, 1952.

Chillow

For Liquid Cooling-Pad Systems of the Type Wherein a Liquid Is Circulated.
Claims use since in or about August 1952.

Ser. No. 636,019. Jet-Heet, Inc., Englewood, N. J. Filed Oct. 1, 1952.

Polar Pad

The word "Pad" is disclaimed apart from the mark as shown.
For Liquid Cooling-Pad Systems of the Type Wherein a Liquid Is Circulated Through a Flexible Pad To Pick Up the Heat From a User's Body in Contact Therewith Comprising Cooling Pads and Liquid Circulation Apparatus Therefor, Parts Therefor, and Cooling Pads for Use in Such Systems.
Claims use since in or about September 1952.

Ser. No. 636,020. Jet-Heet, Inc., Englewood, N. J. Filed Oct. 1, 1952.

Polar Pillow

The word "Pillow" is disclaimed apart from the mark as shown.
For Liquid Cooling-Pad Systems of the Type Wherein a Liquid Is Circulated Through a Flexible Pad To Pick Up the Heat From a User's Body in Contact Therewith Comprising Cooling Pads and Liquid Circulation Apparatus Therefor, Parts Therefor, and Cooling Pads for Use in Such Systems.
Claims use since in or about August 1952.

Ser. No. 643,731. The Squirt Company, Beverly Hills, Calif. Filed Mar. 16, 1953.

SQUIRT

Applicant claims ownership of Registrations Nos. 367,659, 388,777, and others.
For Picnic Coolers.
Claims use since Dec. 21, 1949.

Ser. No. 644,404. The Fluor Corporation, Ltd., Los Angeles, Calif. Filed Mar. 30, 1953. (Sec. 2f.)

FLUOR

For Mechanical Draft and Atmospheric Water Cooling Towers.
Claims use since 1926.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 623,669. Mullins Manufacturing Corporation, Salem and Warren, Ohio. Filed Jan. 16, 1952. (Sec. 2f.)

Youngstown Kitchens

Applicant claims ownership of Registrations Nos. 440,536 and 440,537.
For Kitchen Cabinets—Namely, Undersink, Dishwasher, Wall, Base, Linen, Broom, Corner, Revolving Shelf, and Condiment Cabinets, What-Not Shelves, Standing Shelves, and Cabinet Counter Tops.
Claims use since Nov. 26, 1945.

Ser. No. 623,670. Mullins Manufacturing Corporation, Salem and Warren, Ohio. Filed Jan. 16, 1952. (Sec. 2f.)

Youngstown Kitchens

Applicant claims ownership of Registrations Nos. 440,536 and 440,537.
For Kitchen Cabinets—Namely, Undersink, Dishwasher, Wall, Base, Linen, Broom, Corner, Revolving Shelf, and Condiment Cabinets, What-Not Shelves, Standing Shelves, and Cabinet Counter Tops.
Claims use since Nov. 26, 1945.

Ser. No. 626,733. Electroweld Mfg. Co., Inc., Chicago, Ill. Filed Mar. 20, 1952. (Sec. 2f.)

Electroweld

For Metal Wall and Floor Cabinets—Namely, Kitchen Cabinets, Wardrobes, and Utility Cabinets
Claims use since Jan. 1, 1935.

Ser. No. 632,218. National Mattress Company, Huntington, W. Va. Filed July 7, 1952.

Spring-O-Health

The design of the man, woman, and child is purely fanciful. Exclusive rights to the words "Spring" and "Health" are not claimed apart from the rest of the mark.
For Boxsprings.
Claims use since Mar. 30, 1952.

Ser. No. 632,352. Economy Furniture, Austin, Tex. Filed July 15, 1952.

TROPI-CASUAL

No claim is made to the word "Casual" apart from the mark in its entirety. The lining on the drawing is for shading only.
For End Tables, Coffee Tables, Occasional Tables, Lounge Chairs, Davenports, Settees, and Sectional Settees.
Claims use since Apr. 10, 1952.

Ser. No. 635,724. Benjamin J. Smith, doing business as Ben J. Smith Mfg. & Supply Co., St. Louis, Mo. Filed Sept. 24, 1952.

BENWAY

For Kneeling Cushions for Pews, Communion Steps, and Prie Dieux.
Claims use since Jan. 15, 1950.

Ser. No. 643,572. United Wallpaper, Inc., Chicago, Ill. Filed Mar. 12, 1953.

Decorating Center

For Merchandise Display Stand.
Claims use since Jan. 11, 1953.

Ser. No. 644,416. William Herrschaft, New York, N. Y. Filed Mar. 30, 1953.

HERRSCHAFT STANDMASTER

The name "Herrschaft" is disclaimed apart from the mark as shown.
For Furniture-Type Stands.
Claims use since Feb. 26, 1953.

CLASS 33

GLASSWARE

Ser. No. 639,268. Electro-Seal Watch Crystal Co., New York, N. Y. Filed Dec. 10, 1952.

Electroglas

For Watch Crystals.
Claims use since June 1, 1951.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 639,868. Bowes "Seal-Fast" Corporation, Indianapolis, Ind. Filed Dec. 22, 1952.

BOWES PLUG-IT

The name "Bowes" is disclaimed apart from the mark as shown. The drawing is lined for the color red. Applicant claims ownership of Registrations Nos. 329,168, 366,508, and 524,911.
For Rubber Dough Kits Embodying a Gun for Extruding Rubber Dough or Rubber Dough Itself in Cartridges To Be Inserted Within the Gun for Use in Repair of Rubber Tire Casings.
Claims use since on or about Dec. 1, 1952.

Ser. No. 641,482. W. J. Voit Rubber Corp., Los Angeles, Calif. Filed Jan. 28, 1953.

TREADMASTER

For Tire Repair Materials—Namely, Rubber Stock for Use in Retreading Tires, Cord Repair Fabrics, and Cushion Gums.
Claims use since Sept. 30, 1949.

Ser. No. 642,708. Surveys, Inc., Trenton, N. J. Filed Feb. 24, 1953.

MOLYSEAL

For Metallo-Plastic Valve and Pump Packings With Molybdenum Sulfide, for Centrifugal Pumps, Rotary Pumps, Turbines, Glands, Stuffing Boxes, Valves (Steam, Hot Water, Fuel Oil, Refrigerants), and Other Mechanical Units Having a Rotary or Reciprocal Motion Where a Packing Is Necessary for a Tight Seal.
Claims use since on or about Aug. 9, 1952.

Ser. No. 646,894. Raybestos-Manhattan, Inc., Passaic, N. J. Filed May 12, 1953.

VEE-SQUARE

The word "Square" is disclaimed. Applicant claims ownership of Registrations Nos. 366,498 and 502,173.
For Fluid Piston Rod Packing Comprising Essentially a Rubber or Rubber-Like Molding Either Homogeneous or Reinforced With Cotton and/or Asbestos Fibre.
Claims use since Apr. 7, 1953.

Ser. No. 650,440. Gustin-Bacon Manufacturing Company, Kansas City, Mo. Filed July 17, 1953.

Nylabond

For Fibrous Wicking for Use in Lubrication of Bearings and Journals.
Claims use since June 5, 1953, in the form shown; and since Nov. 26, 1952, in a different form.

Ser. No. 650,675. Air Reduction Company, Incorporated, New York, N. Y. Filed July 23, 1953.

AIRCO

For Welding Hose and Valve Packing.
Claims use since 1922.

CLASS 37

PAPER AND STATIONERY

Ser. No. 614,709. Moss Key-Rec Systems, Inc., Dayton, Ohio. Filed June 4, 1951.



For Partially Printed Business Forms.
Claims use since Apr. 1, 1950.

Ser. No. 625,024. Paramount Paper Products Company, Omaha, Nebr. Filed Feb. 15, 1952.

PRO-TECTO SEAL

The word "Seal" is disclaimed apart from the mark as shown.
For Partially Printed Labels Such as Are Employed for Attachment to Packages of Goods, Wares, and Merchandise for Designating the Contents of the Packages.
Claims use since July 30, 1951.

Ser. No. 633,101. The Champion Paper and Fibre Company, Hamilton, Ohio. Filed July 26, 1952.

Templar

For Printing Paper.
Claims use since on or about May 18, 1951.

Ser. No. 637,306. A. W. Faber-Castell Pencil Co., Inc., Newark, N. J., assignor to A. W. Faber-Castell, Stein bei Nuremberg, West Germany, a company of West Germany. Filed Oct. 29, 1952.



THE SCALES

Applicant claims ownership of Registration No. 227,006.
For Wood Encased, Lead Pencils, Slate Pencils, Crayon Pencils, Fountain-Pens, Writing Chalk, Mechanical Pencils, Rubber Erasers, Rubber Bands, Writing Slates, Pens and Pen Holders, Hand Blotters, Pencil Leads, Crayons, Note-Books, and File Folders, Pencil Point Protectors.
Claims use since 1887

Ser. No. 645,045. Lawrence B. Johnston, doing business as Plasti-Music Company, Evansville, Ind. Filed Apr. 10, 1953.

PLASTI-FOLIO

With respect to the word "Folio" applicant claims it as a part of the mark but not otherwise.
For Sheet-Music Holders.
Claims use since Apr. 30, 1947.

CLASS 39

CLOTHING

Ser. No. 581,173. Charis Corporation, Allentown, Pa. Filed June 28, 1949.

CHARIS "S-P"

Applicant claims ownership of Registrations Nos. 215,616, 399,036, and others.
For Foundation Garments.
Claims use since June 16, 1949, as shown; and since Jan. 14, 1926, as to "Charis."

Ser. No. 636,232. Hirst & Thackway Limited, Leeds, England. Filed Oct. 6, 1952.

SHELT-RAIN

Applicant disclaims the word "Rain" apart from the mark as shown. Applicant claims ownership of British Registration No. 703,467, dated Dec. 17, 1951, and United States Registration No. 532,378.
For Showerproof Outer Garments—Namely, Raincoats, Overcoats, Topcoats, Capes, Jackets and Suits for Men, Women, Boys, Girls, and Children; Trousers and Waistcoats for Men; Golf Jackets and Golf Trousers for Men and Women.

Ser. No. 637,959. John B. Stetson Company, Philadelphia, Pa. Filed Nov. 12, 1952.

STINGY BRIM

No claim is made to the exclusive use of the word "Brim" apart from the mark shown.
For Hats and Caps for Men, Women, and Children.
Claims use since Nov. 3, 1952.

Ser. No. 639,076. Progressive Pants Company, Norwich, Conn. Filed Dec. 5, 1952.



For Work Pants.
Claims use since Nov. 25, 1952.

Ser. No. 639,225. Hat Corporation of America, Norwalk, Conn. Filed Dec. 9, 1952.

PERKY

For Hats for Women.
Claims use since spring of 1934.

Ser. No. 644,771. Merit Clothing Company, Mayfield, Ky. Filed Apr. 6, 1953.

Star★down

For Men's Topcoats.
Claims use since on or about Mar. 1, 1952.

Ser. No. 647,835. The Dayton Company, Minneapolis, Minn. Filed May 28, 1953.

DAYTON CREST

Exclusive use of the word "Dayton" is disclaimed apart from the mark shown.
For Women's Nylon Hosiery.
Claims use since May 14, 1953.

Ser. No. 649,070. Raymond's, Inc., Boston, Mass. Filed June 19, 1953.

Louisburg Square

For Men's and Young Men's Suits, Topcoats, Overcoats, and Sport Coats.
Claims use since Apr. 15, 1953.

Ser. No. 649,188. The Shirtcraft Company, Inc., New York, N. Y. Filed June 22, 1953.

WINDSULATOR

For Men's, Women's, and Boys' Jackets.
Claims use since May 27, 1953.

Ser. No. 649,673. Silver Stripe Hosiery Corporation, New York, N. Y. Filed July 1, 1953.

Silver Key

For Ladies' Hosiery.
Claims use since May 1953.

Ser. No. 649,728. Postway Company, Concord, N. C. Filed July 2, 1953. (Sec. 2f.)

Postway

Applicant claims ownership of Registration No. 424,413.
For Ladies' Full Fashioned Hosiery, Ladies' Seamless Hosiery, Men's and Children's Seamless Hosiery, Men's Full Fashioned Hosiery.
Claims use since July 16, 1945.

Ser. No. 649,788. I. C. Isaacs & Company, Inc., Baltimore, Md. Filed July 3, 1953.

SLIM JEAN

No exclusive claim is made to the word "Jean" apart from the mark as shown in the drawing.
For Girls' and Ladies' Dungarees.
Claims use since September 1951.

Ser. No. 654,505. Aldens, Inc., Chicago, Ill. Filed Oct. 12, 1953.

LEAN JEANS

No claim is made to the exclusive use of the word "Jeans" apart from the mark shown in the drawing.
For Dungarees.
Claims use since July 1, 1948.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 624,608. Samuel Nachem, Yonkers, N. Y. Filed Feb. 6, 1952.

NACHEM

The letters "HEM" are disclaimed apart from the mark as shown.
For Hem Bindings.
Claims use since Dec. 15, 1951.

Ser. No. 636,389. Slumber-Babe, Inc., North Tonawanda, N. Y. Filed Oct. 8, 1952.

SLUMBER - BABE

The term "Babe" is disclaimed apart from the mark as shown.
For Protectors in the Nature of a Harness for Holding Infants on a Bed, Crib, and the Like.
Claims use since Sept. 11, 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 623,369. Safie Bros. Co., Inc., New York, N. Y. Filed Jan. 9, 1952.

TRIPLE 333 THREE

For Textile Sheeting of Cotton and Synthetic Fibres.
Claims use since Sept. 21, 1951.

Ser. No. 638,981. Societe Pour le Traitement et l'Amelioration des Tissus, Paris, France. Filed Dec. 4, 1952.

Texylon

Applicant claims ownership of French Registration No. 403,579, dated June 7, 1950.
For Textile Fabrics of Silk, Cotton, Wool, Hemp, Flax, Jute, Artificial and Synthetic Fibres.

Ser. No. 641,671. Crompton Company, Crompton, R. I. Filed Feb. 3, 1953. (Sec. 2f.)

ATHOLL PLAID

The word "Plaid" is disclaimed apart from the mark as shown on the drawing.
For Fabrics in the Piece Composed of Cotton, Wool, Silk, and Synthetic Fibers.
Claims use since Jan. 13, 1948.

Ser. No. 642,424. Sleepy Time Togs, Inc., New York, N. Y. Filed Feb. 18, 1953.



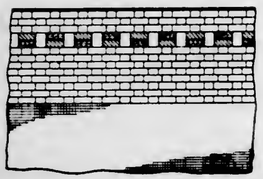
No claim is made to the word "Towel" apart from the mark shown on the drawing.
For Turkish Bath and Beach Towels.
Claims use since Feb. 6, 1953.

Ser. No. 643,106. Leeds Associates Inc., New York, N. Y. Filed Mar. 4, 1953.

Flaneen

For Woolen Fabrics in the Piece.
Claims use since Dec. 12, 1952.

Ser. No. 643,318. Greenwood Mills, Inc., New York, N. Y. Filed Mar. 9, 1953.



Applicant disclaims the representation of the fabric apart from the mark as shown on the drawing. The drawing is lined for the colors green and gold. The mark consists of colored dye-resist threads, one of a gold color and the other of a green color, plied together and woven into one selvage of the fabric.

For Piece Goods Made of Synthetic Fibers or Yarns, of Cotton and of a Mixture of Cotton and Synthetic Fibers or Yarns.

Claims use since Nov. 3, 1952.

Ser. No. 647,051. United Merchants and Manufacturers, Inc., New York, N. Y. Filed May 14, 1953.

BURNT GLAZE

Applicant disclaims exclusive right to use the word "Glaze" apart from the mark as shown on the drawing.

For Piece Goods of Cotton, Wool, Silk, Synthetic Fibers, and Combinations Thereof.

Claims use since on or about Apr. 13, 1953.

Ser. No. 649,676. Swiss Silk Bolting Cloth M'fg. Co. Ltd. (also registered to do business under the equivalent names of Schweizerische Seidengazefabrik A. G., Societe Suisse de Tissage de Soies a Bluter S. A. and Fabbrica Svizzera di Veli-Seta per Buratti S. A., Zurich, Switzerland. Filed July 1, 1953.

NYBOLT

Applicant claims ownership of Swiss Registration No. 144,415, dated Nov. 12, 1952.

For Nylon Fabrics, Including Bolting Cloth for Mills and for Film or Screen Printing.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 621,397. Flo-Bell, Inc., Yonkers, N. Y. Filed Nov. 19, 1951.

FLO-BELL

For Hydrotherapeutic Massaging Appliance or Instrument in the Form of a Bell-Shape Appliance for Application to the Female Breasts for Treatment of Polycystic Mastitis, Chronic Cystic Mastitis, Mastadynia, Breast Abscesses, and Lactating Breast.

Claims use since Mar. 15, 1951.

Ser. No. 638,752. Abbott Laboratories, North Chicago, Ill. Filed Nov. 29, 1952.

SULVETIL

Applicant claims ownership of Registration No. 400,453.

For Apparatus for the Intra-Uterine Administration of a Veterinary Medication.

Claims use since Nov. 14, 1952.

Ser. No. 640,374. American Cystoscope Makers, Inc., New York, N. Y. Filed Jan. 6, 1953. (Sec. 2f.)

FOLEY

For Endoscopic Instruments—Namely, Resectoscopes, and Components Thereof, Catheters, and Surgical Clamps.

Claims use since 1937.

Ser. No. 640,488. Abbott Laboratories, North Chicago, Ill. Filed Jan. 8, 1953.

ABBO-TUBE

Applicant disclaims the word "Tube" apart from the mark. Applicant claims ownership of Registrations Nos. 416,885, 418,272, and others.

For Collapsible Plastic Tube Adapted for Use With a Hypodermic Needle for the Withdrawal and Retention of Blood Sample.

Claims use since Nov. 12, 1952.

Ser. No. 641,946. Metro Medical Distributors, Inc., New York, N. Y. Filed Feb. 9, 1953.

"OPACO"

For Ureteral Catheters, Ureteral Bougies, Ureteral Splints, Spinal Anesthesia Catheters, and Cardiac Catheters.

Claims use since Aug. 8, 1952.

Ser. No. 641,947. Metro Medical Distributors, Inc., New York, N. Y. Filed Feb. 9, 1953.

"SNOWITE"

For Urethral Catheters, Urethral Bougies, Urethral Instillators, Filiforms, Followers, Eustachian and Esophageal Bougies, Tracheal Catheters, and Spinal Anesthesia Catheters.

Claims use since Aug. 8, 1952.

Ser. No. 648,851. The H. C. Cook Company, Ansonia, Conn. Filed June 12, 1953.

Miniclip

Applicant claims ownership of Registration No. 341,109.

For Fingernail Clippers.

Claims use since on or about Sept. 1, 1950.

Ser. No. 651,165. Ethicon Suture Laboratories Incorporated, New Brunswick, N. J., now by change of name, Ethicon, Inc. Filed July 21, 1953.

LIGAPAK

For Surgical Cotton, Gut, and Silk.

Claims use since June 15, 1953.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 647,247. Valley Evaporating Company, Yakima, Wash. Filed May 18, 1953.

TRITON

Applicant claims ownership of Registrations Nos. 239,096, 307,367, 407,411, and 579,099.

For Grape Juice, Apple Cider, Syrup Used in Making Soft Drinks, and Non-Alcoholic Maltless Soft-Drinks.

Claims use since May 16, 1951.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 592,865. Blum's, San Francisco, Calif. Filed Feb. 23, 1950.

Parade of Sweets

The word "Sweets" is disclaimed apart from the mark shown in the drawing.

For Candy.

Claims use since Aug. 3, 1944.

Ser. No. 610,945. Angel Camacho Alarcon, Moron de la Frontera, Spain. Filed Mar. 7, 1951.

BULERIAS

The word "Bulerias" is the name of a folk dance and also a designation in Spanish of a particular way of singing. Applicant claims ownership of Spanish Registration No. 217,609, dated Nov. 19, 1948.

For Olive Oil.

Ser. No. 632,405. Williamson Candy Company, Chicago, Ill. Filed July 10, 1952.

SLOGAN

For Candy.

Claims use since July 3, 1952.

Ser. No. 635,564. Wm. E. Worthington, doing business as Soloro Ranch, Camarillo, Calif. Filed Sept. 20, 1952.

SOLORO

For Fresh Vegetables.

Claims use since June 6, 1952.

Ser. No. 638,575. Etablissements Auguste Bloch et Fils, Tomblaine, Meurthe and Moselle, France. Filed Nov. 25, 1952.

POTALUX

Applicant claims ownership of French Registration No. 4,497, dated July 9, 1951.

For Dehydrated Soups.

Ser. No. 642,939. Brussaard's Handelmaatschappij N. V., Rotterdam, Netherlands. Filed Mar. 2, 1953.

Brusa

For Preserved Ham, Preserved Cherries, Raspberries, Strawberries, Prunes, Pears and Apples, Preserved Herring, Mackerel, Sardines and Pilchards.

Claims use since May 1952; and since June 17, 1952, in commerce between Netherlands and the United States.

Ser. No. 643,395. P. J. Ritter Company, Bridgeton, N. J. Filed Feb. 16, 1953. (Sec. 2f.)



Applicant claims ownership of Registrations Nos. 98,008, 290,361, and 441,271.

For Catsup, Chili Sauce Relish, Packed Vegetables, Packed Vegetable Juices, Packed Pork and Beans, and Packed Fruits.

Claims use since Jan. 29, 1947.

Ser. No. 648,669. Golden Citrus Juices, Inc., Fullerton, Calif. Filed June 12, 1953.

TUBA

For Fresh Frozen Citrus Juice Concentrates—Namely, Grapefruit Juice, Orange Juice, Lime Juice, and Lemon Juice.

Claims use since July 29, 1951.

Ser. No. 648,888. The South Shore Packing Corporation, Vermillion, Ohio. Filed June 16, 1953.

LA VEGA

A general translation of the Spanish word "La Vega" is an open plain, or a tract of level and fruitful ground.

For Table Syrups, Food Flavoring Extracts, Pickles, Olives, and Jellies.

Claims use since Nov. 17, 1952.

Ser. No. 649,876. Food Fair Stores, Inc., Philadelphia, Pa. Filed July 6, 1953.

Mayfair

Applicant claims ownership of Registration No. 539,563.
For Butter.
Claims use since Dec. 30, 1952.

Ser. No. 652,529. Ivar's, Inc., Seattle, Wash. Filed Aug. 31, 1953.

Ivar's

For Clam Chowder.
Claims use since June 25, 1953.

Ser. No. 653,091. James O. Welch Company, Cambridge, Mass. Filed Sept. 11, 1953.

WHITE PLUG

For Candy.
Claims use since Apr. 21, 1953.

Ser. No. 653,141. Charles E. Hansen, doing business as Downy Dunker Donut Co., Minneapolis, Minn. Filed Sept. 14, 1953.

BUD-NUTS

For Pastries—Namely, Doughnuts.
Claims use since September 1951.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 650,119. Premier Industries, Inc., Covington, Ky. Filed July 10, 1953.

Gold Cup

For Soda Straws.
Claims use since June 25, 1953.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 633,729. La Maur, Inc., Minneapolis, Minn. Filed Aug. 11, 1952.

Quik-Silver

For Hair Bleach.
Claims use since June 18, 1952.

Ser. No. 634,060. Turner Hall Corporation, New York, N. Y. Filed Aug. 16, 1952.

CONICAL

For Hair Waving Lotion.
Claims use since May 19, 1952.

Ser. No. 638,403. Daggett & Ramsdell, Inc., doing business as Richel Cosmetics, Newark, N. J. Filed Nov. 21, 1952.

Richel

Applicant claims ownership of Registrations Nos. 296,293 and 301,479.
For Cosmetics—Namely, Liquefying Creams, Cleansing Creams, Texture Creams, Special (Pore) Creams, Hormone Creams, Deodorant Creams, Cream Masques, Scalp Creams, Eye Creams, Eye Lash Creams, Astringent (Skin) Lotions, Hand Lotions, Hair Lotions, Hair Brighteners, Hair Rinses, Brilliantines, Eye Lotions, Deodorant Lotion, Hair Cleansing Powders, Massage Powders, Deodorant Powders, Depilatory Powders, Toilet Waters, Cologne Sticks, Dusting Powders, Talcs, Sachets, Perfumes, Makeup Lotions, Creme Cakes, Face Powders, Lipsticks, Cake Rouges, Cream Rouges, Liquid Rouges, Mascara, Eyeshadow, and Eyebrow Pencils.
Claims use since Nov. 15, 1931.

Ser. No. 640,801. Parfums Charbert, Inc., New York, N. Y. Filed Jan. 15, 1953.

BREATHLESS MIST

Applicant claims ownership of Registration No. 368,019.
For Perfume, Toilet Water, and Face Powder and Bath Powder.
Claims use since Dec. 30, 1952.

Ser. No. 641,016. Charles of the Ritz, Inc., New York, N. Y. Filed Jan. 21, 1953.

GERIATRINE

For Cosmetic Toilet Cream.
Claims use since Jan. 13, 1953.

Ser. No. 648,979. Beverly Coronet Company, Brooklyn, N. Y. Filed June 18, 1953.

Youth Ina

For Cosmetics—Namely, Face Lotions.
Claims use since April 1953.

Ser. No. 650,074. U. S. Merchandise Mart, Inc., Washington, D. C. Filed July 9, 1953.

CHLOROCOOL

For Body Powder.
Claims use since Feb. 2, 1953.

Ser. No. 650,773. John H. Breck, Inc., Springfield, Mass. Filed July 24, 1953.

Lipicil

For Chemical Preparation Used in Cosmetics Used for the Treatment of the Hair and Skin.
Claims use since May 18, 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 585,268. John H. Breck, Inc., Springfield, Mass. Filed Sept. 24, 1949. (Sec. 2f as to the word "Breck.")



Applicant claims ownership of Registration No. 521,473.
For Soap Shampoos in Cake Form, Baby Skin Soaps, Soaps in Cake or Bar Form for Hair and Hands, Hand Soaps, Hand Cleaners in the Nature of a Soap or Similar Type of Detergent, Face Cleaners in the Nature of a Soap or Similar Type of Detergent.
Claims use since May 2, 1949; since July 10, 1941, as to "Breck" for the goods herein set forth; and since Aug. 1, 1915, as to "Breck."

Ser. No. 590,424. The Cook Coffee Company, Cleveland, Ohio. Filed Jan. 6, 1950. (Sec. 2f.)

COFFEE COOK COMPANY

Exclusive use of the words "Coffee Company" is not claimed apart from the rest of the mark shown.
For Soap Flakes, Soap Granules, Soap Pads for Cleaning and Scouring and Bowl Cleaners.
Claims use since March 1935.

Ser. No. 618,954. Calgon, Incorporated, Pittsburgh, Pa. Filed Sept. 19, 1951.

AURA

For Cleansing and Detergent Compound for Use in Dishwashing and Other Washing and Cleansing Operations.
Claims use since Aug. 14, 1951.

Ser. No. 638,215. Schaik Chemical Company, Los Angeles, Calif. Filed Nov. 17, 1952.

SAVAROLLER

For Paint Roller and Paint Brush Cleaner.
Claims use since Oct. 29, 1952.

Ser. No. 643,454. Elizabeth Arden Sales Corporation, New York, N. Y. Filed Mar. 11, 1953. (Sec. 2f.)

ALLAMANDA

Applicant claims ownership of Registration No. 570,345.
For Soap.
Claims use since Jan. 3, 1926.

Ser. No. 645,069. G. H. Packwood Manufacturing Co., St. Louis, Mo. Filed Apr. 10, 1953.

OFFICE PAX

The word "Office" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 253,176 and 389,614.
For Powdered Skin Cleanser.
Claims use since Dec. 3, 1935.

Ser. No. 648,886. Schenley Laboratories, Inc., New York, N. Y. Filed June 16, 1953.

DETISOL

For Compound Used in the Cleaning of Surgical Instruments.
Claims use since Mar. 13, 1953.

Ser. No. 648,981. Colgate-Palmolive-Peet Company, Jersey City, N. J., now by change of name, Colgate-Palmolive Company. Filed June 18, 1953.

STAFF

Applicant claims ownership of Registration No. 558,201.
For Shampoo.
Claims use since Oct. 27, 1952.

Ser. No. 649,125. Colgate-Palmolive-Peet Company, Jersey City, N. J., now by change of name, Colgate-Palmolive Company. Filed June 22, 1953.

Cue

Applicant claims ownership of Registrations Nos. 372,523, 500,083, and 535,259.
For Shampoo.
Claims use since Mar. 30, 1953.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 651,909. The Fluor Corporation, Ltd., Los Angeles, Calif. Filed Aug. 17, 1953. (Sec. 2f.)

FLUOR

For Design and Engineering of Plant Equipment and Buildings for the Petroleum and Natural Gas Refining and Treating Industries, Also for the Chemical and Power Plant Industries.
Claims use since 1890.

CLASS 106

MATERIAL TREATMENT

Ser. No. 574,750. Hugh Holcombe Aiken, Wayne, Pa. Filed Mar. 2, 1949.



For Electronic Sealing of an Object Such as a Picture Card or a Sheet of Paper Between Two Transparent Plastic Sheets.
Claims use since Jan. 27, 1949.

Ser. No. 644,188. Nylon Molded Products Corporation, Garrettsville, Ohio. Filed Mar. 25, 1953.

TYMOLD

For Manufacture to Individual Specification of Injection Molded Plastic Products.
Claims use since Feb. 28, 1952.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

584,460. Canned Fruits Not Including Canned Citrus Fruits; Canned Vegetables; Canned Fruit Juices, Etc. Consolidated Companies, Inc., Plaquemine, La.
Original filed, act of 1905, Jan. 7, 1946; amended to application under act of 1946, Principal Register, Dec. 10, 1948, Serial No. 495,352. Published Oct. 30, 1951. Class 46.

584,461. Portable and Stationary Air-Operated Pumping Apparatus for Lubricants and Other Fluids—Namely, Air-Operated Lubricant Pumps, Lubricant Guns, and Pressure-Fluid Distribution Systems. Lincoln Engineering Company, St. Louis, Mo.
Filed July 5, 1947, Serial No. 527,143. Published Sept. 15, 1953. Class 23.

584,462. Paper Towels. Crown Zellerbach Corporation, doing business as The National Paper Products Co. and Nata Products Company, San Francisco, Calif.
Filed Nov. 22, 1947, Serial No. 542,007. Published Oct. 6, 1953. Class 37.

584,463. Kitchen Utensils—Namely, Skillets, Chicken Fryers, Etc. The Peal Manufacturing Co., Cincinnati, Ohio.
Filed Dec. 8, 1947, Serial No. 543,736. Published Dec. 11, 1951. Class 13.

584,464. Inter and After Coolers for Air or Gas Compressors, Etc. Niagara Blower Company, Buffalo, N. Y.
Filed Dec. 26, 1947, Serial No. 545,518. Published Sept. 8, 1953. Class 34.

584,465. Bicycle Locks. Sears, Roebuck and Co., Chicago, Ill.
Filed Feb. 18, 1948, Serial No. 550,094. Published Dec. 20, 1949. Class 25.

584,466. Overalls. Oshkosh B'Gosh, Inc., Oshkosh, Wis.
Filed June 10, 1948, Serial No. 558,915. Published Oct. 13, 1953. Class 39.

584,467. Shoes, Slippers, Sandals for Women and Girls. Ro-Search, Inc., Waynesville, N. C.
Filed Aug. 26, 1948, Serial No. 564,697. Published Oct. 20, 1953. Class 39.

584,468. Asbestos-Cement Pipe Couplings. Johns-Manville Corporation, New York, N. Y.
Filed Feb. 17, 1949, Serial No. 574,036. Published Oct. 27, 1953. Class 12.

584,469. Highway Warning Signal Device Which Comprises a Reflector To Reflect the Light of Oncoming Vehicles Intended To Be Warned Back to the Source Thereof. Anthes Force Oiler Company, Fort Madison, Iowa.
Filed Apr. 9, 1949, Serial No. 576,839. Published Sept. 22, 1953. Class 34.

584,470. Choleretic, Azoturic, and Anti-Allergic Product for the Treatment of Hepatic and Biliary Deficiencies and Their Manifestations. Olivier Gaudin, Paris, France.
Filed July 11, 1949, Serial No. 581,765. Published Sept. 29, 1953. Class 18.

584,471. Gasoline. Richfield Oil Corporation, Los Angeles, Calif.
Filed July 13, 1949, Serial No. 581,900. Published Oct. 13, 1953. Class 15.

584,472. Liquid Light Refractory Frost Coating. Claremont Pigment Dispersion Corporation, Brooklyn, N. Y.
Filed Mar. 9, 1950, Serial No. 593,650. Published Oct. 27, 1953. Class 6.

584,473. Boys' Coats. Rutgers Coat Co., Inc., New Brunswick, N. J.
Filed Mar. 16, 1950, Serial No. 594,066. Published Oct. 13, 1953. Class 39.

584,474. Fluid Regulating, Relief, Safety, Check, Control, and Needle Valves, and Metallic Hose Fittings. C. A. Norgren Co., Denver, Colo.
Filed Apr. 24, 1950, Serial No. 596,235. Published Oct. 20, 1953. Class 13.

584,475. Hats for Men, Women, and Children. Theo Rossi di Montelera, Turin, Italy.
Priority under Sec. 44(d). Italian Registration No. 96,845, filed Nov. 25, 1949.
Filed May 22, 1950, Serial No. 597,876. Published Sept. 1, 1953. Class 39.

584,476. Leather Loose Leaf Binders, Removable Ring Binders, and Loose Leaf Books. Digby Products Ltd., White Plains, N. Y.
Filed June 30, 1950, Serial No. 600,037. Published Oct. 6, 1953. Class 37.

584,477. Gas Fired Boilers, Conversion Burners, and Unit Heaters. Hook & Ackerman, Inc., Philadelphia, Pa.
Filed Aug. 16, 1950, Serial No. 602,262. Published Sept. 15, 1953. Class 34.

584,478. Rear View Mirrors for Vehicles. Polacoat Incorporated, Cincinnati, Ohio.
Filed Nov. 13, 1950, Serial No. 606,322. Published Oct. 27, 1953. Class 19.

584,479. Elastic Thread. The Firestone Tire & Rubber Company, Akron, Ohio.
Filed Dec. 22, 1950, Serial No. 607,986. Published Oct. 20, 1953. Class 43.

584,480. Striking Tool Handles. Holthouse & Hartup, Inc., Waynesboro, Tenn.
Filed Dec. 22, 1950, Serial No. 608,004. Published Sept. 15, 1953. Class 23.

584,481. Billfolds, Wallets. I. Smallman & Sons, Paterson, N. J., and New York, N. Y.
Filed Dec. 22, 1950, Serial No. 608,022. Published Nov. 6, 1951. Class 3.

584,482. Aluminum, Antimony, Arsenic, Babbitt, Etc. Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y.
Filed Jan. 3, 1951, Serial No. 608,297. Published Oct. 27, 1953. Class 14.

584,483. Trousers and Jackets More Particularly Suited for Men's Wear. Day's Tailor-D Clothing, Inc., Tacoma, Wash.
Filed Jan. 8, 1951, Serial No. 608,495. Published Sept. 8, 1953. Class 39.

584,484. Boys' Garments—Namely, Outer Shorts, Suits, Bib-Pants, Jackets, and Slacks. Lee-Wald Garment Company, Kansas City, Mo.
Filed Feb. 7, 1951, Serial No. 609,730. Published Oct. 20, 1953. Class 39.

584,485. Medicine, Produced and Sold in Both Elixir and Tablet Form, Which Medicine Is Used as an Antispasmodic and Sedative. Ethcraft Chemical Company, Jacksonville, Fla.
Filed Feb. 19, 1951, Serial No. 610,264. Published Sept. 29, 1953. Class 18.

584,486. Multiple Vitamin Preparation. Bernard Pharmacal Co., Inc., New York, N. Y.
Filed Feb. 28, 1951, Serial No. 610,612. Published Oct. 6, 1953. Class 18.

584,487. Penicillin Compounds To Combat All Penicillin Sensitive Organisms by Means of Repository Action, and Particularly Streptococci, Staphylococci and Pneumococci, and in the Treatment of Gonorrhea, Syphilis, and Meningitis. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed Mar. 13, 1951, Serial No. 611,218. Published Oct. 20, 1953. Class 18.

584,488. Various Radioactive Pharmaceuticals for Diagnostic and Therapeutic Use. Abbott Laboratories, North Chicago, Ill.
Filed Mar. 15, 1951, Serial No. 611,332. Published Oct. 20, 1953. Class 18.

584,489. Unpopped Popcorn, Oil To Be Used in Popping Corn, Salt and Artificial-Butter-Flavored Salt. Blevins Popcorn Company, Inc., doing business as Blevins Popcorn Company, Nashville, Tenn.
Filed Apr. 2, 1951, Serial No. 612,114. Published Oct. 6, 1953. Class 46.

584,490. (1) Oil, Gas, and Coal Burners; (2) Oil, Gas, and Coal Boiler-Burner Units, Etc. Massachusetts Heating Corporation, Cambridge, Mass.
Filed Apr. 4, 1951, Serial No. 612,211. Published Sept. 1, 1953. Class 34.

584,491. Lubricating Grease Containing Molybdenum. The American Lubricants Co., Dayton, Ohio.
Filed June 8, 1951, Serial No. 614,923. Published Oct. 6, 1953. Class 15.

584,492. Underwear and Sleeping Garments, the Latter Consisting of Shirt and Pants, for Men, Women, Boys, and Girls. Walter W. Moyer Company, Ephrata, Pa.
Filed July 13, 1951, Serial No. 616,436. Published Sept. 16, 1952. Class 39.

584,493. Unmachined Rough Malleable Castings. Albion Malleable Iron Company, Albion, Mich.
Filed July 23, 1951, Serial No. 616,804. Published Oct 27, 1953. Class 14.

584,494. Dry-Cleaning Machines. J. E. Martin Equipment Corporation, Buffalo, N. Y., now by change of name Martin Equipment Corporation, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio.
Filed July 28, 1951, Serial No. 617,090. Published Oct. 6, 1953. Class 24.

584,495. Gall Bladder Stimulant Used in X-Ray Technology by Hospital Clinical Personnel and the Like In the Detection of Diseases. Lafayette Pharmacal Inc., Lafayette, Ind.
Filed Aug. 24, 1951, Serial No. 618,047. Published Sept. 29, 1953. Class 18.

584,496. Hard Resinous Plastic Sheets Sold in Stock Sizes To Be Cut to Desired Shape and Size for Construction Purposes. Pacific Plastics Company, Renton, Wash.
Filed Aug. 25, 1951, Serial No. 618,097. Published Oct. 27, 1953. Class 12.

584,497. Single-Stranded Wire. The California Wire Cloth Corporation, Oakland, Calif., assignor to The Colorado Fuel and Iron Corporation, Denver, Colo., a corporation of Colorado.
Filed Sept. 6, 1951, Serial No. 618,443. Published Oct. 6, 1953. Class 14.

584,498. Automatic or Continuous Milking Machines and Parts Thereof. V. J. Reeve & Son, Tracy, Calif.
Filed Sept. 18, 1951, Serial No. 618,940. Published Sept. 8, 1953. Class 23.

584,499. Preformed Sewer Pipe Joints Made of a Waterproof and Sealing Compound. James C. Johnston, Fort Lauderdale, Fla.
Filed Sept. 22, 1951, Serial No. 619,139. Published Oct. 27, 1953. Class 12.

584,500. Storage Battery. Life-Time Battery Corporation of America, New Braunfels, Tex.
Filed Sept. 26, 1951, Serial No. 619,250. Published July 22, 1952. Class 21.

584,501. Watches. Hamilton Watch Company, Lancaster, Pa.
Filed Oct. 19, 1951, Serial No. 620,210. Published Aug. 18, 1953. Class 27.

584,502. Decorative Lighting Outfits for Indoor and Outdoor Use on Christmas Trees, in Showrooms, Etc. Raylite Electric Corp., New York, N. Y.
Filed Oct. 20, 1951, Serial No. 620,273. Published Apr. 21, 1953. Class 21.

584,503. Spark Plugs for Internal Combustion Engines. Circofire Spark Plug Company, Hamtramick, Mich.
Filed Oct. 29, 1951, Serial No. 620,591. Published Oct. 6, 1953. Class 21.

584,504. Impression Compound. The S. S. White Dental Manufacturing Company, Philadelphia, Pa.
Filed Oct. 29, 1951, Serial No. 620,635. Published Oct. 27, 1953. Class 44.

584,505. Coal, Wood, Gas, and Oil Cooking Ranges, Space Heaters, Floor Furnaces, and Water Heaters. Wrought Iron Range Company, St. Louis, Mo.
Filed Oct. 29, 1951, Serial No. 620,646. Published Sept. 1, 1953. Class 34.

584,506. Coal, Wood, Gas, and Oil Cooking Ranges, Space Heaters, Floor Furnaces, and Water Heaters. Wrought Iron Range Company, St. Louis, Mo.
Filed Oct. 29, 1951, Serial No. 620,651. Published Sept. 1, 1953. Class 34.

584,507. Socks for Men. Dwight S. Williams Company, Inc., New York, N. Y.
Filed Nov. 19, 1951, Serial No. 621,434. Published June 17, 1952. Class 39.

584,508. Dashboard Trays and Decorative Devices for Motor Vehicles—Namely, Stars, V's, Rockets, and Jet-Lined "Portholes." Seymour Kulwin, doing business as Jeffrey-Allan Industries, Chicago, Ill.
Filed Dec. 27, 1951, Serial No. 622,899. Published Oct. 27, 1953. Class 19.

584,509. Vitamin Preparation. Barnes-Hind Laboratories, San Francisco, Calif.
Filed Jan. 12, 1952, Serial No. 623,497. Published Sept. 29, 1953. Class 18.

584,510. Preparation for Treatment of Head Colds, Chest Colds, Asthmatic Conditions, Muscular Aches and Sore Throat, Neuritis, and Other Ills. Ralph J. Sykes, doing business as Sykes Chemical Co., Greensboro, N. C.
Filed Jan. 29, 1952, Serial No. 624,247. Published Sept. 29, 1953. Class 18.

584,511. Children's Clothing—Namely, Pajamas, Gowns, Robes, Slips, and Panties. James F. Wilson, doing business as Wilson Manufacturing Co., Grand Prairie, Tex.
Filed Feb. 4, 1952, Serial No. 624,514. Published Dec. 23, 1952. Class 39.

584,512. Detergents for Use in Mechanical Dish Washing. Klenzade Products, Incorporated, Beloit, Wis.
Filed Feb. 5, 1952, Serial No. 624,550. Published Oct. 27, 1953. Class 52.

584,513. Medicinal Chewing Gum for the Purpose of Relieving Hunger in the Interval Between Regular Meals and Without Supplying Adipose Elements to the Body of the User. Afco Sales Corporation, Jersey City, N. J.
Filed Feb. 13, 1952, Serial No. 624,870. Published Sept. 29, 1953. Class 18.

584,514. Venetian Blind Spray Cleaning Unit Comprising Pump System, Heater, Tank, and Control Valves. Leo C. Robinson, Indianapolis, Ind.
Original filed, act of 1946, Supplemental Register, Feb. 21, 1952; amended to application, Principal Register, Mar. 9, 1953, Serial No. 625,369. Published Sept. 15, 1953. Class 23.

584,515. Fresh Citrus Fruits. Sunkist Growers, Inc., Los Angeles, Calif.
Filed Mar. 5, 1952, Serial No. 626,008. Published Sept. 2, 1952. Class 46.

584,516. Mineral Oil for Medicinal Use. Royalty Development Corp., Milwaukee, Wis.
Filed Mar. 27, 1952, Serial No. 627,149. Published Sept. 29, 1953. Class 18.

584,517. Mineral Feed Supplement for Livestock and Poultry. Farmcraft Feeds, Inc., Des Moines, Iowa.
Filed Apr. 11, 1952, Serial No. 627,933. Published Sept. 29, 1953. Class 18.

584,518. Electrical Apparatus—Namely, Heating Pads for General Use, Etc. Eagle Electric Manufacturing Co., Inc., Long Island City, N. Y.
Filed Apr. 18, 1952, Serial No. 628,262. Published Apr. 28, 1953. Class 21.

584,519. Artificial Fishing Lure. Bass River Tackle Testers, Bass River, Mass.
Filed Apr. 26, 1952, Serial No. 628,739. Published Oct. 27, 1953. Class 22.

584,520. Power Operated, Pneumatic Spraying Apparatus for Trees, Plants, and Bushes. Elgin Sweeper Company, Elgin, Ill.
Filed Apr. 26, 1952, Serial No. 628,748. Published Mar 24, 1953. Class 23.

584,521. Pharmaceutical Preparation—Namely, Sodium Salt of Para-Aminosalicylic Acid, Etc. Van Slyke & Company, Inc., San Francisco, Calif.
Filed Apr. 30, 1952, Serial No. 628,971. Published Sept. 29, 1953. Class 18.

584,522. Men's Hosiery. Bear Brand Hosiery Co., Chicago, Ill.
Filed May 3, 1952, Serial No. 629,146. Published Oct. 13, 1953. Class 39.

584,523. Salve Against Athlete's Foot. William S. S. Horton, Lynbrook, N. Y.
Filed May 6, 1952, Serial No. 629,244. Published Oct. 20, 1953. Class 18.

584,524. Nozzles for Spraying Liquids. Spraying Systems Co., Bellwood, Ill.
Filed May 8, 1952, Serial No. 629,397. Published Oct. 27, 1953. Class 13.

584,525. Receptacles Adapted To Be Attached Beneath the Dashboard of an Automobile and To Swing Out To Provide a Desk, Table or Holder for Use by the Occupants of the Automobile. Robray Mfg. Co., Chicago, Ill.
Filed May 10, 1952, Serial No. 629,517. Published Oct. 20, 1953. Class 19.

584,526. Spur and Helical Gears, Shafts, Hubs, Flanges and Associated Parts—Namely, Springs, Etc. Dittmer Gear and Manufacturing Corp., Lockport, N. Y.
Filed May 14, 1952, Serial No. 629,656. Published Sept. 15, 1953. Class 23.

584,527. Knitted and Woven Fabrics Made of Wool, Silk, Cotton, Synthetic Fibers, or Any Combination Thereof, Sold in the Piece. Continental Mills, Inc., Philadelphia, Pa.
Filed May 23, 1952, Serial No. 630,124. Published Oct. 13, 1953. Class 42.

584,528. Scouring Pads Consisting of a Mass of Synthetic Resin Monofilaments. Bolta-Saran, Inc., Lawrence, Mass.
Filed June 3, 1952, Serial No. 630,661. Published Oct. 27, 1953. Class 4.

584,529. Fresh Frozen Flounder and Haddock Fillets. D. F. O K. Lynfrost A/S, Esbjerg, Denmark.
Filed June 12, 1952, Serial No. 631,094. Published Oct. 6, 1953. Class 46.

584,530. Automobiles and Trucks. Empresa Nacional de Autocamiones S. A., Madrid, Spain.
Filed June 14, 1952, Serial No. 631,206. Published Oct. 20, 1953. Class 19.

584,531. Men's, Ladies', and Children's Hats. Texas Harvest Hat Company, Laredo, Tex.
Filed June 19, 1952, Serial No. 631,447. Published Sept. 8, 1953. Class 39.

584,532. Men's, Ladies', and Children's Hats. Texas Harvest Hat Company, Laredo, Tex.
Filed June 19, 1952, Serial No. 631,448. Published Sept. 8, 1953. Class 39.

584,533. Tool Joint Compound—Namely, a Mixture of Powdered Lead, Powdered Graphite, Lubricating Oil, and Tacky Additive Used as Lubricant on the Threaded Ends of Joints of Drill Pipe Used in the Drilling of Oil Wells. Chiksan Company, Houston, Tex.
Filed June 20, 1952, Serial No. 631,468. Published Oct. 13, 1953. Class 15.

584,534. Dolls. Nancy Ann Storybook Dolls, Inc., San Francisco, Calif.
Filed June 28, 1952, Serial No. 631,940. Published Oct. 20, 1953. Class 22.

584,535. Sink Strainers. All-Power Manufacturing Co., Montebello, Calif.
Filed June 30, 1952, Serial No. 631,967. Published Oct. 27, 1953. Class 13.

584,536. Bare and Coated Welding Rods. American Brake Shoe Company, New York, N. Y.
Filed June 30, 1952, Serial No. 631,971. Published Oct. 20, 1953. Class 14.

584,537. Supplies for Pets—Namely, Bird Cages, Dog Feeding Dishes, Bird Cage Stands, and Parakeet Toys. Bernard Edward Company, Chicago, Ill.
Filed June 30, 1952, Serial No. 631,982. Published Oct. 13, 1953. Class 3.

584,538. Powered Roof Ventilators. Penn Ventilator Company, Philadelphia, Pa.
Filed July 9, 1952, Serial No. 632,322. Published Sept. 1, 1953. Class 34.

584,539. Sewing Machines. Mima Sewing Machine Mfg. Co., Ltd., Fukushima-Ku, Osaka, Japan.
Filed Apr. 26, 1952, Serial No. 632,644. Published Sept. 15, 1953. Class 23.

584,540. Air Conditioners Employing Mechanical Refrigeration Mechanism. Sears, Roebuck and Co., Chicago, Ill.
Filed July 18, 1952, Serial No. 632,750. Published Sept. 15, 1953. Class 34.

584,541. Packaged Rice for Human Consumption and Rice Bran Oil Meal Used for Poultry and Cattle Feed. Rice Growers Association of California, Sacramento, Calif.
Filed July 28, 1952, Serial No. 633,169. Published Oct. 6, 1953. Class 46.

584,542. Mischmetal Alloy in Ingot, Pellet, and Rod Form. Cerium Metals Corporation, New York, N. Y.
Filed July 31, 1952, Serial No. 633,299. Published Oct. 20, 1953. Class 14.

584,543. Narrow Elastic Webbing. United Elastic Corporation, Easthampton, Mass.
Filed Aug. 1, 1952, Serial No. 633,396. Published Oct. 20, 1953. Class 42.

584,544. Fresh Vegetables. J. S. Danenberg, doing business as Danny Danenberg, El Centro, Calif.
Filed Aug. 11, 1952, Serial No. 633,715. Published Oct. 6, 1953. Class 46.

584,545. Temperature and Humidity-Controlled Cabinets in Which Different Atmospheric Conditions Can Be Reproduced. American Instrument Company, Inc., Silver Spring, Md.
Filed Aug. 13, 1952, Serial No. 633,826. Published Oct. 13, 1953. Class 34.

584,546. Expanded Metal. Athos Steel Service, Philadelphia, Pa.
Filed Aug. 11, 1952, Serial No. 633,904. Published Oct. 20, 1953. Class 14.

584,547. Multiple Vitamin Capsules. Battle Creek Dietetic Co., Battle Creek, Mich.
Filed Aug. 15, 1952, Serial No. 633,958. Published Sept. 29, 1953. Class 18.

584,548. Fortified Multiple Vitamins and Minerals. Battle Creek Dietetic Co., Battle Creek, Mich.
Filed Aug. 15, 1952, Serial No. 633,959. Published Sept. 29, 1953. Class 18.

584,549. Correspondence Envelopes. Dokeris and Argyris, Corona, N. Y.
Filed Aug. 18, 1952, Serial No. 634,076. Published Oct. 6, 1953. Class 37.

584,550. Bread. The W. E. Long Co., Chicago, Ill.
Filed Aug. 19, 1952, Serial No. 634,148. Published Oct. 6, 1953. Class 46.

584,551. Bread. The W. E. Long Co., Chicago, Ill.
Filed Aug. 19, 1952, Serial No. 634,149. Published Oct. 6, 1953. Class 46.

584,552. Articles Made of Natural Cork, of Cork Particles, and of Cork Composition—Namely, Cork Insulation, Cork Pipe Covering, and Cork Tile. Mundet Cork Corporation, North Bergen, N. J.
Filed Aug. 20, 1952, Serial No. 634,210. Published Oct. 27, 1953. Class 12.

584,553. Oil or Gas Burning Air Conditioning Systems and Parts Thereof—Namely, Air-Conducting Boots, Plenums, and Ducts, Air Cooling Units, and Air-Distributing Baseboard Grilles. York-Shipley, Inc., York, Pa.
Filed Aug. 26, 1952, Serial No. 634,505. Published Sept. 15, 1953. Class 34.

584,554. Women's Hosiery. Airmaid Hosiery Mills, Dallas, Tex.
Filed Aug. 27, 1952, Serial No. 634,512. Published Oct. 13, 1953. Class 39.

584,555. Textile Fabric Composed of Wool and Synthetic Fiber Sold in the Piece for Making Into Garments. American Woolen Company, New York, N. Y.
Filed Aug. 28, 1952, Serial No. 634,566. Published Oct. 13, 1953. Class 42.

584,556. Wild Blackberry Jelly, Marmalade, Peach Butter, Plum Butter, Grape Butter, Damson Butter, Grape Jelly, Apple Butter, and Crab Apple Jelly. Ellen B. Geld, Lucas, Ohio, assignor to Louis Bromfield, Lucas, Ohio.
Filed Sept. 10, 1952, Serial No. 635,086. Published Oct. 6, 1953. Class 46.

584,557. Men's, Women's, and Children's Hosiery, Knitted Underwear, Knitted T Shirts, Sweat Shirts, and Girls' Midriffs. May Hosiery Mills, Nashville, Tenn.
Filed Sept. 10, 1952, Serial No. 635,092. Published Oct. 20, 1953. Class 39.

584,558. Sweet Pickled Pimentos. Mother's Food Products, Inc., Newark, N. J.
Filed Sept. 12, 1952, Serial No. 635,191. Published Oct. 6, 1953. Class 46.

584,559. Lettuce. Cris-Krisp Company, Oswego, N. Y.
Filed Sept. 18, 1952, Serial No. 635,408. Published Oct. 13, 1953. Class 46.

584,560. Floor Wax Soap for Cleaning and Polishing Floors and Scouring Cleansers. Industrial Soap Company, St. Louis, Mo.
Filed Sept. 18, 1952, Serial No. 635,416. Published Oct. 27, 1953. Class 4.

584,561. Lubricating Oils and Greases. Red Giant Oil Company, Council Bluffs, Iowa.
Filed Sept. 23, 1952, Serial No. 635,662. Published Oct. 13, 1953. Class 15.

584,562. Drip Coffee Makers Made of Base Metal. Leyse Aluminum Company, Kewaunee, Wis.
Filed Sept. 29, 1952, Serial No. 635,921. Published Apr. 7, 1953. Class 13.

584,563. Fire Hose Nozzles and Hose Line Couplings. Akron Brass Mfg. Company, Inc., Wooster, Ohio.
Filed Sept. 30, 1952, Serial No. 635,945. Published Oct. 20, 1953. Class 13.

584,564. Board Games Played With Movable Game Pieces. Wales Game Systems, Inc., Buffalo, N. Y.
Filed Sept. 30, 1952, Serial No. 635,983. Published Oct. 27, 1953. Class 22.

584,565. Board Games Played With Movable Game Pieces. Wales Game Systems, Inc., Buffalo, N. Y.
Filed Sept. 30, 1952, Serial No. 635,985. Published Oct. 27, 1953. Class 22.

584,566. Board Games Played With Movable Playing Pieces. Wales Game Systems, Inc., Buffalo, N. Y.
Filed Sept. 30, 1952, Serial No. 635,987. Published Oct. 27, 1953. Class 22.

584,567. Animal Equipment—Namely, Cages, Feed Trays, Feeding Dishes, Dusting Pans, Carrying Cages, Cage Covers, Rest Boards, Cage Floor Screens, Dropping Pans, Nest Boxes, and Cage Pedestals. Hiawatha Equipment Company, Manistique, Mich.
Filed Oct. 3, 1952, Serial No. 636,129. Published Oct. 13, 1953. Class 3.

584,568. Men's, Women's, and Children's Visors Per Se for Use on Hats and Caps. Frielich Brothers Corporation, New York, N. Y.
Filed Oct. 7, 1952, Serial No. 636,279. Published Sept. 22, 1953. Class 39.

584,569. Men's, Women's, and Children's Visors Per Se for Use on Hats and Caps. Frielich Brothers Corporation, New York, N. Y.
Filed Oct. 7, 1952, Serial No. 636,281. Published Sept. 22, 1953. Class 39.

584,570. Local and Regional Anesthetic. Winthrop-Stearns Inc., New York, N. Y.
Filed Oct. 7, 1952, Serial No. 636,321. Published Sept. 29, 1953. Class 18.

584,571. Stapling Machines, Binding Machines Using Metal Staples, and Tacking Machines Using Metal Staples. Acme Staple Company, Camden, N. J.
Filed Oct. 10, 1952, Serial No. 636,450. Published Sept. 1, 1953. Class 23.

584,572. Staples for Use in Stapling Machines, Tagging Machines, Binding Machines, Stitching Machines, and Tacking Machines. Acme Staple Company, Camden, N. J.
Filed Oct. 10, 1952, Serial No. 636,451. Published Oct. 27, 1953. Class 13.

584,573. Staples for Use in Stapling Machines, Tagging Machines, Binding Machines, Stitching Machines, and Tacking Machines. Acme Staple Company, Camden, N. J.
Filed Oct. 10, 1952, Serial No. 636,453. Published Oct. 27, 1953. Class 13.

584,574. Umbrellas. Irving D. Rich, doing business as The Personal Pencil Company, New York, N. Y.
Filed Oct. 21, 1952, Serial No. 636,942. Published Oct. 6, 1953. Class 41.

584,575. Gas Valves for Gas Stove and Gas Range Burners. Harper-Wyman Company, Chicago, Ill.
Filed Oct. 22, 1952, Serial No. 636,980. Published Sept. 15, 1953. Class 34.

584,576. Medicinal Preparation of Vitamin-Mineral Supplements Used for Prophylactic or Therapeutic Treatment of Vitamin and Mineral Deficiencies in the Diet. Eli Lilly and Company, Indianapolis, Ind.
Filed Oct. 23, 1952, Serial No. 637,060. Published Oct. 20, 1953. Class 18.

584,577. Print Cloth of Cotton. Wm. Simpson, Sons & Co., Inc., Philadelphia, Pa.
Filed Oct. 29, 1952, Serial No. 637,336. Published Oct. 13, 1953. Class 42.

584,578. Pastry Frames, Spatulas, Juicers, Saw Setters, Saw Sharpeners and Gummers, Lawn Mowers, Files, Saws, Lathes, Jointer Planers, Drill Presses, and Sanding Machines. Foley Manufacturing Company, Minneapolis, Minn.
Filed Oct. 30, 1952, Serial No. 637,367. Published Sept. 15, 1953. Class 23.

584,579. Glue in Cartridge Form With a Ball-Pointed Dispenser Therefor. Glu-Pen Corporation, Wilmington, Del., and New York, N. Y.
Filed Oct. 30, 1952, Serial No. 637,371. Published Oct. 27, 1953. Class 5.

584,580. Cranberry Jam and Jelly and Cranberry Syrup for Food Purposes. Guy C. Myers, doing business as Cranguyma Farms Products, Long Beach, Wash.
Filed Nov. 4, 1952, Serial No. 637,603. Published Oct. 6, 1953. Class 46.

584,581. Candy. L. S. Heath & Sons, Inc., Robinson, Ill.
Filed Nov. 7, 1952, Serial No. 637,773. Published Oct. 13, 1953. Class 46.

584,582. Children's Hosiery: Wee-Sox Hosiery Mills, Incorporated, Randleman, N. C.
Filed Nov. 7, 1952, Serial No. 637,806. Published Oct. 27, 1953. Class 39.

584,583. Spring Motors Used in Magnetic Sound Recording Apparatus. Amplifier Corporation of America, New York, N. Y.
Filed Nov. 8, 1952, Serial No. 637,812. Published Sept. 1, 1953. Class 23.

584,584. Water-Repellent Impregnating Agent for Textiles. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed Nov. 8, 1952, Serial No. 637,819. Published Oct. 27, 1953. Class 6.

584,585. Textile Fabrics in the Piece Made of Wool, Silk, Cotton, Rayon, Linen, and Nylon. Manufactures de Senones (Vosges) Société à Responsabilité Limitée, Paris, France.
Priority under Sec. 44(d). French Registration No. 511,741, filed June 27, 1952.
Filed Nov. 8, 1952, Serial No. 637,834. Published Oct. 13, 1953. Class 42.

584,586. Sewing Machines. Mima Sewing Machine Mfg. Co., Ltd., Fukushima-Ku, Osaka, Japan.
Filed Apr. 26, 1952, Serial No. 637,845. Published Sept. 15, 1953. Class 23.

584,587. Equipment for Raising Animals, Excluding Fowl—Namely, Feeder Boxes, Feeder Box Guards, Nest Boxes, Hutch Card Holders, Hutches, and Salt Holders. Totem Farms, Edmonds, Wash.
Filed Nov. 10, 1952, Serial No. 637,893. Published Oct. 13, 1953. Class 3.

584,588. Induction Furnaces for Melting and Casting Metals. Ajax Engineering Corporation, Trenton, N. J.
Filed Nov. 13, 1952, Serial No. 637,979. Published Oct. 6, 1953. Class 21.

584,589. Farm Barn Hardware—Namely, Curb Clamps, Alignment Devices for Aligning Cattle in Stalls, Etc. Starline Inc., Harvard, Ill.
Filed Oct. 29, 1952, Serial No. 638,033. Published Oct. 13, 1953. Class 13.

584,590. Pharmaceutical Products for Treating Coughs, Etc. Ilon Chemische Industrie G. m. b. H., Freiburg-Littenweiler (Breisgau), Germany.
Filed Sept. 15, 1952, Serial No. 638,118. Published Sept. 29, 1953. Class 18.

584,591. Men's, Ladies', and Children's Hats. Texas Harvest Hat Company, Laredo, Tex.
Filed Nov. 19, 1952, Serial No. 638,329. Published Sept. 8, 1953. Class 39.

584,592. Hosiery for Men, Women, Boys, and Girls. J. W. Landenberger & Co. Inc., Philadelphia, Pa., assignor to Aberfoyle Manufacturing Company, Philadelphia, Pa.
Filed Nov. 21, 1952, Serial No. 638,424. Published Oct. 13, 1953. Class 39.

584,593. Passenger Safety Belts for Use in Automobiles. Air Associates, Inc., Teterboro, N. J.
Filed Nov. 22, 1952, Serial No. 638,462. Published Oct. 20, 1953. Class 19.

584,594. Power Operated Industrial Lift Trucks. Clark Equipment Company, Buchanan, Mich.
Filed Nov. 28, 1952, Serial No. 638,695. Published Sept. 1, 1953. Class 23.

584,595. Hosiery for Women and Girls. Morton's, Washington, D. C.
Filed Nov. 28, 1952, Serial No. 638,734. Published Oct. 20, 1953. Class 39.

584,596. Textile Fabrics in the Piece of Cotton and/or Synthetic Fibers. United States Rubber Company, New York, N. Y.
Filed Dec. 2, 1952, Serial No. 638,884. Published Oct. 13, 1953. Class 42.

584,597. Chemical Preparations for the Treatment of Textile Articles, Etc. Societe pour le Traitement et l'Amelioration des Tissus, Paris, France.
Filed Dec. 4, 1952, Serial No. 638,980. Published Oct. 27, 1953. Class 6.

584,598. Canned Fruits and Canned Vegetables. Winn & Lovett Grocery Company, Jacksonville, Fla.
Filed Dec. 5, 1952, Serial No. 639,093. Published Oct. 6, 1953. Class 46.

584,599. Men's, Women's, and Children's Hosiery. Jerks Socks, Inc., Cincinnati, Ohio.
Filed Dec. 6, 1952, Serial No. 639,117. Published June 2, 1953. Class 39.

584,600. Pneumatic Sprayers for Atomizing and Spraying Paint. John J. Sedlacsik, trading as Scientific Electric, Garfield, N. J.
Filed Dec. 6, 1952, Serial No. 639,145. Published Sept. 8, 1953. Class 23.

584,601. Perfume. Holiday, Inc., New York, N. Y.
Filed Dec. 11, 1952, Serial No. 639,329. Published Oct. 27, 1953. Class 51.

584,602. Occlusal Plane Recorders, Consisting of the Combination of a Resilient Plate and Mechanical Means, Etc. James S. Miller, Trenton, N. J.
Filed Dec. 11, 1952, Serial No. 639,335. Published Oct. 27, 1953. Class 44.

584,603. Physicians' and Surgeons' Instruments—Namely, Transilluminators and Retractors, Etc. Electro Surgical Instrument Co., Rochester, N. Y.
Filed Dec. 15, 1952, Serial No. 639,467. Published Oct. 27, 1953. Class 44.

584,604. Sanitary Goods—Namely, Sanitary Pants, Perfume Atomizers, Sanitary Belts, Sanitary Napkins, and Manicure Sets Including Tweezers, Scissors, Nail Files, Cuticle Removers, and Orange Sticks. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,524. Published Oct. 27, 1953. Class 44.

584,605. Electric Lighting Fixtures and Parts Thereof. Moe Light, Inc., Fort Atkinson, Wis.
Filed Dec. 18, 1952, Serial No. 639,702. Published Sept. 1, 1953. Class 21.

584,606. Men's Suits, Sport Coats, Overcoats, Topcoats, Jackets, and Slacks. Style Art Clothes, Inc., New York, N. Y.
Filed Dec. 20, 1952, Serial No. 639,853. Published Sept. 1, 1953. Class 39.

584,607. Women's Hosiery. Airmaid Hosiery Mills, Dallas, Tex.
Filed Dec. 24, 1952, Serial No. 639,976. Published Oct. 13, 1953. Class 39.

584,608. Household and Garden Gloves Made From Vinyl Impregnated and Vinyl Coated Cotton Fabric. Brookville Glove Company, Brookville, Pa.
Filed Dec. 26, 1952, Serial No. 640,034. Published Aug. 18, 1953. Class 39.

584,609. Hair Rinse. Beauty Counselors, Inc., Grosse Pointe, Mich.
Filed Jan. 5, 1953, Serial No. 640,321. Published Oct. 27, 1953. Class 51.

584,610. Door Knobs, Door Knob Dummy Trim, Door-Knob Working Trim, Etc. Schlage Lock Company, San Francisco, Calif.
Filed Jan. 6, 1953, Serial No. 640,412. Published Oct. 20, 1953. Class 13.

584,611. Men's Hosiery and More Particularly Socks of Cotton, Wool, and Mixtures Therof, Wool and Wool Mixed Hunting Socks, Athletic Socks, and Slipper Socks. Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y.
Filed Jan. 7, 1953, Serial No. 640,425. Published Oct. 20, 1953. Class 39.

584,612. Men's Hosiery and More Particularly Socks of Cotton, Wool, and Mixtures Thereof: Wool and Wool Mixed Hunting Socks, and Athletic Socks. Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y.
Filed Jan. 7, 1953, Serial No. 640,426. Published Oct. 13, 1953. Class 39.

584,613. Derivative of Phenothiazine Used in Therapeutics, Etc. Societe des Usines Chimiques Rhone-Poulenc, also doing business as Societe Parisienne d'Expansion Chimique S. A., Paris, France.
Priority under Sec. 44(d). French Registration No. 421,706, filed July 29, 1952.
Filed Jan. 12, 1953, Serial No. 640,651. Published Oct. 20, 1953. Class 18.

584,614. Duct Outlet Fixtures. Pennant Corporation, Grand Rapids, Mich.
Filed Jan. 19, 1953, Serial No. 640,958. Published Sept. 15, 1953. Class 34.

584,615. Base for Ointments. Duke Laboratories, Inc., Stamford, Conn.
Filed Jan. 21, 1953, Serial No. 641,024. Published Oct. 20, 1953. Class 18.

584,616. Leather Key Cases, Coin Purses, Card Cases, Billfolds, and Wallets. Advertising Promotion Products, New York, N. Y.
Filed Jan. 22, 1953, Serial No. 641,115. Published Oct. 13, 1953. Class 3.

584,617. Fresh Fish—Namely, Fresh Haddock Fillets; for Salted Fish—Namely, Boneless Salt Codfish, Etc. Collins, Lee Company, Chelsea, Mass.
Filed Jan. 22, 1953, Serial No. 641,126. Published Oct. 6, 1953. Class 46.

584,618. Blower Wheels Formed From Molded Plastic for Use in Moving Air in Various Appliances Such as Hair Dryers. Master Appliance Mfg. Co., Racine, Wis.
Filed Jan. 26, 1953, Serial No. 641,314. Published Oct. 13, 1953. Class 34.

584,619. Metallic Welding Electrodes. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed Jan. 27, 1953, Serial No. 641,375. Published Oct. 20, 1953. Class 14.

584,620. Vehicle Body Textile Trimming Fabrics—Namely, Corduroy, Velours, Etc. Automotive Materials Corporation, Detroit, Mich.
Filed Jan. 28, 1953, Serial No. 641,424. Published Oct. 13, 1953. Class 42.

584,621. Hats, Caps, and Gloves Made of Leather, Fabric, and Combinations Thereof for Men, Women, and Children. John B. Stetson Company, Philadelphia, Pa.
Filed Jan. 28, 1953, Serial No. 641,476. Published Sept. 1, 1953. Class 39.

584,622. Fresh Cherries. Frank M. Nola, doing business as Peter Nola & Son, San Jose, Calif.
Filed Feb. 2, 1953, Serial No. 641,632. Published Oct. 6, 1953. Class 46.

584,623. Decongestant, Antihistaminic and Antiseptic Preparation for the Relief of Congestion in Common Cold, Sinusitis, Allergic Rhinitis (Hay Fever and Allied Allergic Conditions). Winthrop-Stearns Inc., New York, N. Y.
Filed Feb. 2, 1953, Serial No. 641,653. Published Oct. 6, 1953. Class 18.

584,624. Artificial Textile Fibres Constituted Wholly or in Part by Protein Substances. Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa, Societa per Azioni, Milan, Italy.
Filed Feb. 4, 1953, Serial No. 641,747. Published Oct. 13, 1953. Class 1.

584,625. Men's Hosiery. Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y.
Filed Feb. 11, 1953, Serial No. 642,061. Published Oct. 13, 1953. Class 39.

584,626. Chili Powder and Chili Pepper. Chili Products Corporation Ltd., Los Angeles, Calif.
Filed Feb. 13, 1953, Serial No. 642,197. Published Oct. 20, 1953. Class 46.

584,627. Antibiotics for Veterinary Use. Merck & Co., Inc., Rahway, N. J.
Filed Feb. 13, 1953, Serial No. 642,235. Published Oct. 6, 1953. Class 18.

584,628. Liquid Poultry Feed Fortifier and Conditioner Containing Vitamins and Minerals. West Coast Chemicals and Solvents Corporation, also doing business as Western Feed Supplement Co., Culver City, Calif.
Filed Feb. 13, 1953, Serial No. 642,247. Published Oct. 20, 1953. Class 18.

584,629. Football, Wrestling, and Basket Ball Pants; and Wrestling and Skating Tights. Sand Knitting Mills Co., Chicago, Ill., assignor to Sand Knitting Mills Corporation, Berlin, Wis., a corporation of Wisconsin.
Filed Feb. 16, 1953, Serial No. 642,308. Published Oct. 13, 1953. Class 39.

584,630. Aspirin Tablets Containing Saccharin. Maurice A. Hendler, doing business under the name Hendirin Company, Los Angeles, Calif.
Filed Feb. 20, 1953, Serial No. 642,551. Published Oct. 6, 1953. Class 18.

584,631. Men's and Boys' Clothing—Namely, Suits, Overcoats, and Topcoats. Michaels, Stern & Company, Incorporated, Rochester, N. Y.
Filed Feb. 20, 1953, Serial No. 642,564. Published Sept. 22, 1953. Class 39.

584,632. Hair Depilatory. Alexander Laughlin, Portland, Maine.
Filed Feb. 26, 1953, Serial No. 642,823. Published Oct. 27, 1953. Class 51.

584,633. Medicinal Preparations for Treatment of Acidity, Colds, Headache, Neuralgia, and Indigestion. Horlicks Limited, Slough, England.
Filed Mar. 4, 1953, Serial No. 643,102. Published Oct. 20, 1953. Class 18.

584,634. Candy. Robertson & Woodcock Limited, London, England.
Filed Mar. 4, 1953, Serial No. 643,116. Published Oct. 27, 1953. Class 46.

584,635. Children's Play Nurse Uniforms. The Kendall Company, Boston, Mass.
Filed Mar. 5, 1953, Serial No. 643,165. Published Oct. 13, 1953. Class 39.

584,636. Ferrous Metal, Oil Well Casing, and Oil Well Tubing With Upset Threaded Ends of Very High Tensile Strength Providing a Minimum Outside Diameter With a Maximum Inside Diameter. The National Supply Company, Pittsburgh, Pa.
Filed Mar. 10, 1953, Serial No. 643,432. Published Oct. 20, 1953. Class 13.

584,637. Pocketbooks. Morris Moskowitz Corp., New York, N. Y.
Filed Mar. 11, 1953, Serial No. 643,498. Published Oct. 20, 1953. Class 3.

584,638. Oil Heaters. Spiegel, Inc., Chicago, Ill.
Filed Mar. 12, 1953, Serial No. 643,562. Published Sept. 15, 1953. Class 34.

584,639. Metal Alloy Tubes and Metal Alloy Pipes. Union Carbide and Carbon Corporation, New York, N. Y.
Filed Mar. 13, 1953, Serial No. 643,621. Published Oct. 20, 1953. Class 13.

584,640. Ladies' Sweaters. Eastern Knitwear Co., Inc., New York, N. Y.
Filed Mar. 16, 1953, Serial No. 643,667. Published Sept. 22, 1953. Class 39.

584,641. Hot Air Furnaces and Burners Therefor. Peerless Furnace and Foundry, Inc., Indianapolis, Ind.
Filed Mar. 16, 1953, Serial No. 643,707. Published Sept. 15, 1953. Class 34.

584,642. Blankets Made of Cotton, Wool, or Synthetic Fibers or Combinations Thereof. Bencon Manufacturing Company, Swannanoa, N. C.
Filed Mar. 17, 1953, Serial No. 643,754. Published Oct. 13, 1953. Class 42.

584,643. Dog Collars, Leads and Harnesses; Key Cases and Key Holders. J. Narby, Brooklyn, N. Y.
Filed Mar. 17, 1953, Serial No. 643,781. Published Oct. 20, 1953. Class 3.

584,644. Fire Hydrants. Darling Valve & Manufacturing Company, Williamsport, Pa.
Filed Mar. 18, 1953, Serial No. 643,820. Published Oct. 27, 1953. Class 13.

584,645. Hats for Women. Hat Corporation of America, Norwalk, Conn.
Filed Mar. 19, 1953, Serial No. 643,903. Published Sept. 1, 1953. Class 39.

584,646. Pumps Comprising Centrifugal, Turbine, and Rotary or Impeller Pumps and Parts Thereof. Byron Jackson Co., Los Angeles, Calif.
Filed Mar. 20, 1953, Serial No. 643,961. Published Sept. 1, 1953. Class 23.

584,647. Shawls or Stoles and the Same Secured to or Wrapped Around a Carrying Device, Such as a Parasol Handle or Stick. Maison Duffée Inc., New York, N. Y.
Filed Mar. 20, 1953, Serial No. 643,968. Published Sept. 22, 1953. Class 39.

584,648. Boring Machines, i. e., Machines for Boring a Plurality of Holes in Predetermined Locations. Libra-scope, Incorporated, Glendale, Calif.
Filed Mar. 23, 1953, Serial No. 644,040. Published Sept. 1, 1953. Class 23.

584,649. Piece Goods Made of Synthetic Fibers. Mooresville Mills, Inc., Mooresville, N. C.
Filed Mar. 23, 1953, Serial No. 644,050. Published Oct. 20, 1953. Class 42.

584,650. Metal Alloys Particularly Adapted for Forming Seals Between Metals and Insulators Such as Glass. Vacuum Metals Corporation, Cambridge, Mass.
Filed Mar. 24, 1953, Serial No. 644,146. Published Oct. 20, 1953. Class 14.

584,651. Metal Forms for Guiding the Construction of Internal Details of Fireplaces and To Provide Heating Warm Air Circulating Chambers. Bennett-Ireland, Inc., Norwich, N. Y.
Filed Mar. 25, 1953, Serial No. 644,159. Published Sept. 29, 1953. Class 34.

584,652. Sedative Preparation. Smith, Kline & French Laboratories, Philadelphia, Pa.
Filed Mar. 25, 1953, Serial No. 644,197. Published Sept. 29, 1953. Class 18.

584,653. Sodium Polyanhydromannuronic Acid Sulfate for Anticoagulant Use. American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa.
Filed Mar. 27, 1953, Serial No. 644,273. Published Oct. 6, 1953. Class 18.

584,654. Chemical Preparation for Control of Chronic Respiratory Disease in Chickens. Midvale Chemical Company, Lodi, N. J.
Filed Mar. 27, 1953, Serial No. 644,330. Published Oct. 6, 1953. Class 18.

584,655. Antipyretic and Mild Analgesic for Infants and Children. E. S. Miller Laboratories, Inc., Los Angeles, Calif.
Filed Mar. 27, 1953, Serial No. 644,332. Published Sept. 29, 1953. Class 18.

584,656. Misses' Rain Coats and Capes. Fitzgibbons Co., Framingham, Mass.
Filed Mar. 30, 1953, Serial No. 644,400. Published Sept. 22, 1953. Class 39.

584,657. Medicated Jelly for Treatment and Prevention of Infections. Foster-Milburn Co., Buffalo, N. Y.
Filed Mar. 30, 1953, Serial No. 644,407. Published Sept. 29, 1953. Class 18.

584,658. Milling Machines. Perrish Steel Products, Inc., Los Angeles, Calif.
Filed Mar. 30, 1953, Serial No. 644,449. Published Sept. 8, 1953. Class 23.

584,659. Metal Combination Storing, Freezing, and Cooking Containers. Reish Products, Inc., South Bend, Ind.
Filed Mar. 30, 1953, Serial No. 644,453. Published Oct. 27, 1953. Class 13.

584,660. Somnifacient Product. Schenley Laboratories, Inc., New York, N. Y.
Filed Mar. 30, 1953, Serial No. 644,459. Published Oct. 6, 1953. Class 18.

584,661. Medicinal Preparation Indicated for Treatment of Colds and Headache Due to Common Colds. Y-Z Laboratories, Wilmington, N. C.
Filed Mar. 30, 1953, Serial No. 644,481. Published Sept. 29, 1953. Class 18.

584,662. Dressed Poultry. Jacques Makowsky, Pomfret Center, Conn.
Filed Mar. 31, 1953, Serial No. 644,507. Published Oct. 6, 1953. Class 46.

584,663. Natural or Synthetic Latex Compound Containing Granular Rubber or Rubberlike Particles. General Latex and Chemical Corporation, Cambridge, Mass.
Filed Apr. 1, 1953, Serial No. 644,550. Published Oct. 13, 1953. Class 1.

584,664. Frozen Fresh Fish—Namely, Haddock, Cod, Whiting, Sole, Ocean Perch, Ocean Catfish; Frozen Cooked Fish—Namely, Haddock, Ocean Perch, Cod; Frozen Fresh and Cooked Scallops, Frozen Fresh Shrimp, Fresh Oysters. The Kroger Co., Cincinnati, Ohio.
Filed Apr. 2, 1953, Serial No. 644,620. Published Oct. 20, 1953. Class 46.

584,665. Antacid Preparation in Dosage Form. American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa.
Filed Apr. 3, 1953, Serial No. 644,660. Published Oct. 6, 1953. Class 18.

584,666. Combinations of Antibiotics and Hormonal Substances for Medicinal Use. Merck & Co., Inc., Rahway, N. J.
Filed Apr. 3, 1953, Serial No. 644,680. Published Oct. 6, 1953. Class 18.

584,667. Combinations of Antibiotics and Hormonal Substances for Medicinal Use. Merck & Co., Inc., Rahway, N. J.
Filed Apr. 3, 1953, Serial No. 644,681. Published Oct. 6, 1953. Class 18.

584,668. Combinations of Antibiotics and Hormonal Substances for Medicinal Use. Merck & Co., Inc., Rahway, N. J.
Filed Apr. 3, 1953, Serial No. 644,683. Published Oct. 6, 1953. Class 18.

584,669. Chemotherapeutic Preparation for the Treatment of Tuberculosis. Winthrop-Stearns Inc., New York, N. Y.
Filed Apr. 3, 1953, Serial No. 644,703. Published Oct. 13, 1953. Class 18.

584,670. Tablets for the Relief of Hypertension. Irwin, Neisler & Company, Decatur, Ill.
Filed Apr. 6, 1953, Serial No. 644,757. Published Oct. 13, 1953. Class 18.

584,671. Tablets for the Treatment of Hypertension. Irwin, Neisler & Company, Decatur, Ill.
Filed Apr. 6, 1953, Serial No. 644,758. Published Oct. 6, 1953. Class 18.

584,672. Men's Topcoats. Merit Clothing Company, Mayfield Ky.
Filed Apr. 6, 1953, Serial No. 644,770. Published Sept. 22, 1953. Class 39.

584,673. Men's Suits and Sports Coats. Lebow Bros., Inc., Baltimore, Md.
Filed Apr. 7, 1953, Serial No. 644,850. Published Sept. 22, 1953. Class 39.

584,674. Men's and Boys' Sport Shirts, Sport Jackets, and Sport Slacks. Bedford Shirt Corp., New York, N. Y.
Filed Apr. 9, 1953, Serial No. 644,958. Published Sept. 22, 1953. Class 39.

584,675. Adrenocorticotropic Hormone Preparation. George A. Breon & Company, New York, N. Y.
Filed Apr. 10, 1953, Serial No. 645,030. Published Oct. 20, 1953. Class 18.

584,676. Wallets, Billfolds, and Traveling Cases. Manhattan Novelty Corporation, New York, N. Y.
Filed Apr. 10, 1953, Serial No. 645,047. Published Oct. 13, 1953. Class 3.

584,677. Hats and Caps for Men, Women, and Children. John B. Stetson Company, Philadelphia, Pa.
Filed Apr. 13, 1953, Serial No. 645,198. Published Sept. 22, 1953. Class 39.

584,678. Chemical Preparation for Use in Cleaning Coffee Urns. Service Products, Incorporated, Greenville, Pa.
Filed Apr. 14, 1953, Serial No. 645,217. Published Oct. 27, 1953. Class 52.

584,679. Antiseptic Agent for Use in Detergent Preparations. Sterling Drug Inc., New York, N. Y.
Filed Apr. 14, 1953, Serial No. 645,269. Published Oct. 27, 1953. Class 52.

584,680. Petroleum Base Lubricant, Surface Conditioner and Coating Oil Used in the Manufacture of Steel. The Brooks Oil Company, Cleveland, Ohio.
Filed Apr. 16, 1953, Serial No. 645,388. Published Oct. 13, 1953. Class 15.

584,681. Medicinal Preparation in Tablet Form for Relief of Pain Caused by Headaches, Minor Neuralgia, Tooth Extractions, and the Like. Sleep-Eze Co., Inc., Long Beach, Calif.
Filed Apr. 16, 1953, Serial No. 645,439. Published Oct. 20, 1953. Class 18.

584,682. Analgesic Anti-Pyretic and Anti-Spasmodic Preparation. E. S. Miller Laboratories, Inc., Los Angeles, Calif.
Filed Apr. 20, 1953, Serial No. 645,582. Published Oct. 20, 1953. Class 18.

584,683. Women's Hosiery and Stockings, and for Opera Hose and Stockings and Opera Tights. Triumph Hosiery Mills, Inc., New York, N. Y.
Filed Apr. 20, 1953, Serial No. 645,607. Published Oct. 13, 1953. Class 39.

584,684. Medicinal Preparation in Tablet Form for Treatment of Gout and Rheumatic Conditions. Chicago Pharmacal Company, Chicago, Ill.
Filed Apr. 22, 1953, Serial No. 645,696. Published Oct. 20, 1953. Class 18.

584,685. Medicinal Preparations for External Application to the Skin. Fred S. Malcolm, doing business under the name and style of Bryn Mawr Laboratories, Bryn Mawr, Pa.
Filed Apr. 22, 1953, Serial No. 645,720. Published Oct. 20, 1953. Class 18.

584,686. Cheese. N. Dorman & Co., Inc. (N. Y.), New York, N. Y.
Filed Apr. 23, 1953, Serial No. 645,786. Published Oct. 6, 1953. Class 46.

584,687. Men's Topcoats, Overcoats, Sport Coats, Suits, Work and Armed Service Uniforms, and Women's Coats. Malcom Kenneth Co., Boston, Mass.
Filed Apr. 23, 1953, Serial No. 645,809. Published Oct. 13, 1953. Class 39.

584,688. Children's Dresses. Rootie Kazootie, Inc., New York, N. Y.
Filed Apr. 23, 1953, Serial No. 645,834. Published Oct. 13, 1953. Class 39.

584,689. Cast Iron Soil and Drainage Pipe Fittings. Universal Cast Iron Mfg. Co., South Gate, Calif.
Filed Apr. 23, 1953, Serial No. 645,849. Published Oct. 20, 1953. Class 13.

584,690. Aluminum Alloys. Fromson Orban Company, Inc., New York, N. Y.
Filed Apr. 27, 1953, Serial No. 645,975. Published Oct. 20, 1953. Class 14.

584,691. Door Hinges. No-Mortise Hinge Corp., Bound Brook, N. J.
Filed Apr. 27, 1953, Serial No. 646,006. Published Oct. 20, 1953. Class 13.

584,692. Automobile Seat Covers, Automobile Arm Rest Covers, and Baby Seats for Automobiles. Western Auto Supply Company, Kansas City, Mo.
Filed Apr. 27, 1953, Serial No. 646,030. Published Oct. 20, 1953. Class 19.

584,693. Ladies' and Misses' Dresses, Skirts, Coats, Dress and Jacket Ensembles, Suits, Blouses, Slacks, Coveralls and Jumpers. David Crystal, Inc., New York, N. Y.
Filed May 6, 1953, Serial No. 646,532. Published Oct. 20, 1953. Class 39.

584,694. Wire Chinchilla Cages. Jess & C. A. Cutler, Inc., Columbus, Ga.
Filed May 6, 1953, Serial No. 646,536. Published Oct. 27, 1953. Class 3.

584,695. Barrettes and Hair Combs. H. Goodman & Sons, Inc., Jersey City, N. J., and New York, N. Y.
Filed May 12, 1953, Serial No. 646,863. Published Oct. 20, 1953. Class 40.

584,696. Soup Mixes. Thomas J. Lipton, Inc., Hoboken, N. J.
Filed May 15, 1953, Serial No. 647,082. Published Oct. 6, 1953. Class 46.

584,697. Ladies' and Misses' Skirts. Summit Sportwear Co., Boston, Mass.
Filed May 15, 1953, Serial No. 647,111. Published Oct. 20, 1953. Class 39.

584,698. Synthetic Yarn. Majestic Rayon Corporation, New York, N. Y.
Filed May 19, 1953, Serial No. 647,303. Published Oct. 20, 1953. Class 43.

584,699. Knitted Fabrics in the Piece Made of Cotton, Synthetic Fibres and Combinations Thereof. Barbet Mills, Inc., Gastonia, N. C.
Filed May 21, 1953, Serial No. 647,389. Published Oct. 13, 1953. Class 42.

584,700. Piece Goods of Silk, Rayon, Cotton, Synthetic Fibers, and Mixtures Thereof. Oberman Fabrics, Inc., New York, N. Y.
Filed May 22, 1953, Serial No. 647,518. Published Oct. 13, 1953. Class 42.

584,701. Yarns of Synthetic Fibers, Cotton Fibers, Animal Fibers, and Mixtures Thereof. Collins & Aikman Corporation, Philadelphia, Pa.
Filed May 25, 1953, Serial No. 647,601. Published Oct. 20, 1953. Class 43.

584,702. Bowling Pins. Vulcan Corporation, Portsmouth, Ohio.
Filed May 25, 1953, Serial No. 647,670. Published Oct. 27, 1953. Class 22.

584,703. Skin Therapy Machines. Elysee Cosmetic Manufacturing Co., San Francisco, Calif.
Filed June 3, 1953, Serial No. 648,162. Published Oct. 27, 1953. Class 44.

584,704. Artificial Teeth. The Dentists' Supply Company of New York, York, Pa.
Filed June 4, 1953, Serial No. 648,237. Published Oct. 27, 1953. Class 44.

584,705. Clinical Thermometer. Faichney Instrument Corporation, Watertown, N. Y.
Filed June 4, 1953, Serial No. 648,240. Published Oct. 27, 1953. Class 44.

584,706. Prepared Meals Consisting of Fried Chicken, Soup, Salad, Mashed Potatoes, Biscuits, and Dessert. Clarence A. Beatty, doing business under the name The Chicken Pickers, San Francisco, Calif.
Filed June 15, 1953, Serial No. 648,720. Published Oct. 13, 1953. Class 46.

584,707. Pneumatic Rubber Tires. Seiberling Rubber Company, Barberton, Ohio.
Filed June 25, 1953, Serial No. 649,392. Published Oct. 27, 1953. Class 35.

584,708. Dolls. G., H. & E. Freydberg, Inc., New York, N. Y.
Filed July 23, 1953, Serial No. 650,700. Published Oct. 20, 1953. Class 22.

584,709. Toy Suction Cleaners. The Hoover Company, North Canton, Ohio.
Filed July 23, 1953, Serial No. 650,709. Published Oct. 27, 1953. Class 22.

584,710. Bicycles. Flandria Cycle Corporation, New York, N. Y.
Filed July 30, 1953, Serial No. 651,099. Published Oct. 27, 1953. Class 19.

584,711. Systems Consisting of Wire, Junction Blocks, Sockets, Terminals, Switches, and Power Cords Assembled Into and Sold as Complete Harnesses or Groups of Sub-Assemblies. United Manufacturing and Service Co., Milwaukee, Wis.
Filed Sept. 27, 1951, Serial No. 619,319. Published June 3, 1952. Class 21.

Service Marks

584,712. Bookkeeping and Accounting Services and Tax Service in Connection With Aviation Business Covering the Preparation of the Following Returns: (a) Income Tax, Etc. Downs, Mohl & Co. (Not Inc.), Chicago, Ill.
Filed Dec. 30, 1947, Serial No. 545,729. Published Oct. 20, 1953. Class 101.

584,713. Chemically Impregnating Forest Products for Preservation and Fire Resistance. American Lumber & Treating Co., Chicago, Ill.
Filed Sept. 5, 1950, Serial No. 603,143. Published Oct. 20, 1953. Class 106.

584,714. Leasing of Equipment To Be Used for Precision Cutting of Hard Materials, Etc. Cavitron Corporation, New York, N. Y.
Filed Oct. 9, 1951, Serial No. 619,738. Published Oct. 20, 1953. Class 103.

584,715. Ocean and Inland Marine Insurance Agency and Brokerage Services. American International Underwriters Corporation, New York, N. Y., assignee of American International Marine Agency of New York, Inc.
Filed June 3, 1952, Serial No. 630,659. Published Oct. 20, 1953. Class 102.

584,716. Accounting and Auditing Services. Frederick F. Robinson, Danbury, Conn.
Filed Oct. 1, 1952, Serial No. 636,034. Published Oct. 6, 1953. Class 101.

584,717. Restaurant Services. John S. Grassfield, doing business as Grassfield Jefferson Cafeteria, Bloomington, Ill.
Filed Jan. 15, 1953, Serial No. 640,792. Published Oct. 20, 1953. Class 100.

584,718. Broking of Real Estate and Businesses. The Locaters, Incorporated, Minneapolis, Minn.
Filed Feb. 2, 1953, Serial No. 641,624. Published Oct. 6, 1953. Class 102.

584,719. Architectural Services Relating to Building. George Leonard Ely, St. Petersburg, Fla.
Filed Feb. 9, 1953, Serial No. 641,919. Published Oct. 20, 1953. Class 100.

584,720. Services to Persons Establishing and Maintaining Frozen Custard Stores and Stands, Etc. Roly-Poly Corporation, Lima, Ohio.
Filed Feb. 26, 1953, Serial No. 642,840. Published Oct. 20, 1953. Class 100.

584,721. Constructing and Repairing of Chemical Processing Plants; Airfields; Mining and Geological Installations, Etc. Henry J. Kaiser Company, Oakland, Calif.
Filed June 1, 1953, Serial No. 648,025. Published Oct. 20, 1953. Class 103.

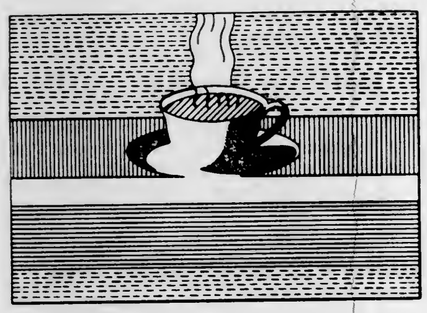
Collective Mark

584,722. Establishment and Maintenance of Membership in an International Technical Society Having Scientific, Literary and Educational Objects, Etc. The Institute of Radio Engineers, Inc., New York, N. Y.
Filed July 12, 1952, Serial No. 632,479. Published Oct. 6, 1953. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

584,723. (Class 46. Foods and Ingredients of Foods.) Bensdorp Inc., Boston, Mass., assignor to Bensdorp, N. V., Bussum, Holland, a corporation of Holland. Original filed, act of 1946, Principal Register, Jan. 18, 1949; amended to application, Supplemental Register, Aug. 28, 1952, Serial No. 572,396.



The representation of hot chocolate is disclaimed apart from the mark. The drawing is lined for gray, red, blue, and brown.

For Preparation of Cocoa, Chocolate, Sugar, and Skim Milk Powder for Making Instant Chocolate.

Claims use since Aug. 16, 1948.

584,724. (Class 33. Glassware.) Motor Products Corporation, Detroit, Mich., and North Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 30, 1951; amended to application, Supplemental Register, Sept. 24, 1952, Serial No. 613,341.

Handy-Jug

For Glass Bottle With Plastic Handle for Use in Refrigeration.

Claims use since Feb. 2, 1951.

584,725. (Class 4. Abrasives and Polishing Materials.) Macklanburg-Duncan Company, Oklahoma City, Okla. Original filed, act of 1946, Principal Register, Aug. 25, 1951; amended to application, Supplemental Register, Aug. 4, 1952, Serial No. 618,091.

Nu-Way

For Combination Cleaning, Polishing and Coating Wax.

Claims use since Aug. 1, 1951.

584,726. (Class 46. Foods and Ingredients of Foods.) Megs Macaroni Company, Harrisburg, Pa. Filed Jan. 7, 1952, Serial No. 623,631.



The words "Egg Noodles" are not claimed. Applicant claims ownership of Registration No. 556,670.

For Alimentary Pastes—Namely, Noodles.

Claims use since June 6, 1950.

584,727. (Class 29. Brooms, Brushes, and Dusters.) King Paint Roller, Inc., Detroit, Mich. Original filed, act of 1946, Principal Register, Jan. 18, 1952; amended to application, Supplemental Register, June 24, 1953, Serial No. 623,769.

LOAD-A-ROLLER

For Device Made of Wire and Cloth and Intended To Be Hooked Inside a Can of Paint and Adapted To Carry Paint To Be Picked Up by a Paint Applying Roller.

Claims use since Jan. 2, 1952.

584,728. (Class 16. Protective and Decorative Coatings.) Roberts Paint Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 7, 1952; amended to application, Supplemental Register, Aug. 18, 1953, Serial No. 624,659.

Skrub-it

For Ready Mixed Paints and Paint Enamels.

Claims use since August 1951.

584,729. (Class 40. Fancy Goods, Furnishings, and Notions.) Parfait Promotional Packaging Company, New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 11, 1952; amended to application, Supplemental Register, Apr. 14, 1953, Serial No. 626,261.

STIK-TITE

For Pre-Tied Ribbon Bows for Package Decoration.

Claims use since Feb. 6, 1952.

584,730. (Class 19. Vehicles.) Thayer, Inc., Gardner, Mass. Filed Mar. 24, 1952, Serial No. 626,965.

BUILDER OF BETTER THINGS FOR BABIES

For Infant's Carriages, Strollers, and Coaches.

Claims use since December 1950.

584,731. (Class 12. Construction Materials.) Nuside, Inc., Warren, Ohio. Original filed, act of 1946, Principal Register, Apr. 11, 1952; amended to application, Supplemental Register, Mar. 2, 1953, Serial No. 627,958.

NUside

For Metal Siding.

Claims use since Jan. 10, 1951.

584,732. (Class 40. Fancy Goods, Furnishings, and Notions.) The Maclean Company, Newark, N. J. Original filed, act of 1946, Principal Register, Apr. 16, 1952; amended to application, Supplemental Register, Sept. 28, 1953, Serial No. 628,158.



No rights to the registration of the words "Collar Stays" or the representation of a collar are claimed apart from the mark as shown. The stippling on the drawing is solely to provide background contrast for the representation of a collar.

For Collar Stays.

Claims use since Dec. 10, 1951.

584,733. (Class 6. Chemicals and Chemical Compositions.) The Davison Chemical Corporation, Baltimore, Md. Original filed, act of 1946, Principal Register, May 8, 1952; amended to application, Supplemental Register, Oct. 15, 1953, Serial No. 629,360.

Dri-Pax

For Packaged Silica Gel Adsorbent Material, Employed Particularly as a Desiccant for the Interior of Pharmaceutical Containers or the Like.

Claims use since Apr. 28, 1952.

584,734. (Class 18. Medicines and Pharmaceutical Preparations.) Irving Ehrlich, Brooklyn, N. Y. Original filed, act of 1946, Principal Register, May 29, 1952; amended to application, Supplemental Register, Oct. 8, 1953, Serial No. 630,481.

GOLDEN

COUGH TABS

The word "Cough" is disclaimed apart from the mark as shown.

For Cough Drops.

Claims use since Jan. 10, 1949.

584,735. (Class 22. Games, Toys, and Sporting Goods.) Ivy Laverne Shinn, doing business under the name of Jimmy Weldon Enterprises, Chickasha, Okla. Original filed, act of 1946, Principal Register, June 3, 1952; amended to application, Supplemental Register, Aug. 3, 1953, Serial No. 630,685.

Webster Webfoot

For Doll, Simulating the Fanciful Figure of a Duck.

Claims use since Oct. 2, 1950.

584,736. (Class 49. Distilled Alcoholic Liquors.) A. & A. Crawford Limited, Leith, Scotland. Original filed, act of 1946, Principal Register, June 5, 1952; amended to application, Supplemental Register, Dec. 18, 1952, Serial No. 630,764.



The exclusive use of all of the wording, with the exception of "Crawford's," the facsimile signature "A. W. Crawford," and the design feature, is disclaimed. The name "A W Crawford Ltd" is in the handwriting of David Ireland, who was a partner at one time of the firm A. & A. Crawford, a predecessor of applicant. Applicant claims ownership of Registration No. 307,429.

For Scotch Whisky.

Claims use since July 5, 1947, in Great Britain and since Dec. 15, 1948, in commerce between Great Britain and the United States.

584,737. (Class 32. Furniture and Upholstery.) Finer Chrome Products Co. Inc., New York, N. Y. Original filed, act of 1946, Principal Register, July 3, 1952; amended to application, Supplemental Register, Apr. 28, 1953, Serial No. 632,117.

Slenda-leg

For Furniture—Namely, Dinette Sets and Chairs and Tables of the Type Used in Dinette Sets.
Claims use since Feb. 1, 1952.

584,738. (Class 18. Medicines and Pharmaceutical Preparations.) American Scientific Laboratories, Inc., Madison, Wis. Original filed, act of 1946, Principal Register, Aug. 11, 1952; amended to application, Supplemental Register, Sept. 30, 1953, Serial No. 633,701.

D-HORN-R

For Product for Removing Horns From Calves and Kids.
Claims use since July 31, 1948.

584,739. (Class 28. Jewelry and Precious-Metal Ware.) B. D'Ella & Son, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 16, 1952, amended to application, Supplemental Register, May 29, 1953, Serial No. 635,289.

de La Mer

For Pearls.
Claims use since 1941.

584,740. (Class 18. Medicines and Pharmaceutical Preparations.) C. D. McKinney, Georgetown, S. C. Original filed, act of 1946, Principal Register, Sept. 19, 1952; amended to application, Supplemental Register, Sept. 23, 1953, Serial No. 635,486.

McKINNEY'S MIXTURE

For Laxative.
Claims use since 1913.

584,741. (Class 16. Protective and Decorative Coatings.) The Foy Paint Company, Inc., doing business as The R. F. Johnston Paint Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Oct. 1, 1952; amended to application, Supplemental Register, Sept. 8, 1953, Serial No. 636,009.

SoFlat

For Interior Flat Wall Paint.
Claims use since Aug. 29, 1952.

584,742. (Class 28. Jewelry and Precious-Metal Ware.) Hamilton's Inc., Columbia, S. C. Original filed, act of 1946, Principal Register, Oct. 16, 1952; amended to application, Supplemental Register, Feb. 17, 1953, Serial No. 636,705.

registered HAMILTON'S INC. JEWELERS diamond rings

For Finger Rings.
Claims use since June 1, 1951.

584,743. (Class 52. Detergents and Soaps.) House of Huston, Inc., Coral Gables, Fla. Original filed, act of 1946, Principal Register, Oct. 27, 1952; amended to application, Supplemental Register, May 8, 1953, Serial No. 637,252.

BEAUTY BATH

For Medicated Dog Shampoo, Containing Deodorizing, Germicidal, Fungicidal, and Insecticidal Ingredients.
Claims use since Dec. 27, 1950.

584,744. (Class 32. Furniture and Upholstery.) Douglas Furniture Corporation, Chicago, Ill. Original filed, act of 1946, Principal Register, Feb. 25, 1953; amended to application, Supplemental Register, Oct. 12, 1953, Serial No. 642,737.

burl

The shading shown on the drawing is for shading purposes only.
For Kitchen and Dinette Tables and Chairs.
Claims use since Oct. 6, 1952.

584,745. (Class 49. Distilled Alcoholic Liquors.) Carrington and Company, Limited, Calgary, Alberta, Canada. Filed Apr. 24, 1953, Serial No. 645,867.
For Whiskey.

Carrington's

Claims use since Nov. 20, 1951, and since Nov. 20, 1951, in commerce between foreign nations and the United States.

584,746. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Leeds Ltd. Coats, Inc., New York, N. Y. Filed May 27, 1953, Serial No. 647,782.

LEEDS

Applicant claims ownership of Registration No. 347,183.
For Piece Goods Made of Wool, Cotton, Rayon, Silk, Synthetic Fibres and Combinations of the Same.
Claims use since May 1, 1936.

Service Mark

584,747. (Class 107. Education and Entertainment.) The Moody Bible Institute of Chicago, Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 23, 1953; amended to application, Supplemental Register, July 7, 1953, Serial No. 641,198.

SERMONS from SCIENCE

For Providing Religious Educational Services—Namely, Correlating the Teachings of Science and the Bible, Etc.
Claims use since Jan. 15, 1939.

TRADE-MARK REGISTRATIONS RENEWED

41,974. KARDOMAH. Registered Feb. 2, 1904. The Liverpool China & India Tea Company, Limited. Renewed Feb. 2, 1954, to Kardomah Limited, Liverpool, England, a British company. Tea. Class 46.

93,046. MINTO-PAYES. Registered Aug. 12, 1913. Tailby-Nason Company, South Berwick, Maine, and Boston, Mass. Re-renewed Aug. 12, 1953, to Tailby-Nason Company, Cambridge, Mass., a corporation of Maine. Digestive Tablets. Class 18.

93,771. "PETROLASTIC" WITHIN CIRCLE DESIGN. Registered Oct. 14, 1913. Standard Oil Company, Richmond, Calif. Re-renewed Oct. 14, 1953, to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware. Petroleum Asphalt Produced by Treating Crude Oil. Class 12.

93,940. SO EASY. Registered Oct. 21, 1913. Valier & Spies Milling Co., St. Louis, Mo. Re-renewed Oct. 21, 1953, to Flour Mills of America, Inc., Kansas City, Mo., a corporation of Delaware. Wheat-Flour. Class 46.

94,007. "SCOUT" AND DESIGN. Registered Oct. 28, 1913. John F. Lalla Company, Chicago, Ill., a corporation of Illinois. Re-renewed Oct. 28, 1953. Macaroni, Spaghetti, Noodles, Sardines in Oil, Etc. Class 46.

94,301. "NUFASHOND" AND DESIGN. Registered Nov. 25, 1913. The Narrow Fabric Co., Wyomissing, Pa. Re-renewed Nov. 25, 1953, to The Narrow Fabric Company, West Reading, Pa., a corporation of Pennsylvania. Garment-Lacers and Shoe-Lacers. Class 40.

95,164. SMITH & WESSON. Registered Feb. 3, 1914. Smith & Wesson. Re-renewed Feb. 3, 1954, to Smith and Wesson, Inc., Springfield, Mass., a corporation of Massachusetts. Revolvers. Class 9.

95,405. REPRESENTATION OF DIAMOND DESIGN. Registered Feb. 17, 1914. George W. Davis. Re-renewed Feb. 17, 1954, to Allene S. D. Johnson, Manorville, N. Y. Cranberries. Class 46.

305,764. "MT. TACOMA" ETC. AND DESIGN. Registered Aug. 22, 1933. Tacoma Brewing Co., San Francisco, Calif. Renewed Aug. 22, 1953, to Sicks' Seattle Brewing & Malting Co., Seattle, Wash., a corporation of Washington. Malt Beverages With Not More Than the Legal Alcoholic Content. Class 48.

306,313. NOBLIS. Registered Sept. 12, 1933. Albert Carson, doing business as Noblis Mills. Renewed Sept. 12, 1953, to Noblis Corporation, New York, N. Y., a corporation of New York. Hosiery and Underwear for Men, Women and Children. Class 39.

306,966. COPOSIL. Registered Oct. 10, 1933. California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Renewed Oct. 10, 1953, to California Spray-Chemical Corporation, Richmond, Calif., a corporation of Delaware. Fungicides. Class 6.

306,967. DELMO. Registered Oct. 10, 1933. California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Renewed Oct. 10, 1953, to California Spray-Chemical Corporation, Richmond, Calif., a corporation of Delaware. Insecticidal, Germicidal, and Fungicidal Sprays. Class 6.

307,082. CAFEX. Registered Oct. 17, 1933. Hartford Products Corporation. Renewed Oct. 17, 1953, to The Hartford Products Corporation, Hartford, Conn., a corporation of Delaware. Coffee Makers. Class 13.

307,135. IMCO SPECIAL. Registered Oct. 17, 1933. International Milling Company, Minneapolis, Minn., a corporation of Delaware. Renewed Oct. 17, 1953. Wheat Flour. Class 46.

307,415. APOLLO. Registered Oct. 24, 1933. Accles & Pollock Limited, Oldbury, near Birmingham, England, a company organized under the laws of the Kingdom of Great Britain. Renewed Oct. 24, 1953. Golf Clubs and Irons, Golf Balls, Bags, Tees, Etc. Class 22.

307,432. BUNNIE LAINE. Registered Oct. 24, 1933. Marshall Field & Company, Chicago, Ill., a corporation of Illinois. Renewed Oct. 24, 1953. Women's and Children's Dresses, Suits, Jackets, Coats, and Pajamas, and Lounging Robes. Class 39.

307,541. SILEX. Registered Oct. 31, 1933. The Silex Company, Hartford, Conn., a corporation of Connecticut. Renewed Oct. 31, 1953. Electric Coffee Makers. Class 21.

307,888. "BIG 7" AND DESIGN. Registered Nov. 7, 1933. The Kansas Flour Mills Corporation. Renewed Nov. 7, 1953, to Flour Mills of America, Inc., Kansas City, Mo., a corporation of Delaware. Wheat Flour. Class 46.

308,010. REZISTOR. Registered Nov. 14, 1933. The Henry G. Thompson & Son Company, New Haven, Conn., a corporation of Connecticut. Renewed Nov. 14, 1953. Hack Saw Blades and Band Saw Blades. Class 23.

308,056. LORD JEFF SPORTSWEAR. Registered Nov. 21, 1933. Lord Jeff Knitting Company, Boston, Mass. Renewed Nov. 21, 1953, to Lord Jeff Knitting Company, Incorporated, Brooklyn, N. Y., a corporation of New York. Men's, Women's, and Children's Wearing Apparel—Namely, Coats, Suits, Dresses, Etc. Class 39.

308,163. "BRISTOL" PYRAMID. Registered Nov. 21, 1933. The Horton Manufacturing Company, Bristol, Conn. Renewed Nov. 21, 1953, to Union Hardware Company, Torrington, Conn., a corporation of Connecticut. Golf Irons. Class 22.

308,237. "ATLAS MILLS" ETC. AND DESIGN. Registered Nov. 28, 1933. Atlas Mills, Inc. Renewed Nov. 28, 1953, to Atlas Fabrics Corporation, New York, N. Y., a corporation of New York. Textile Fabrics—Namely, Piece Goods of Silk and Rayon and Mixtures Thereof. Class 42.

308,603. NINE BROTHERS. Registered Dec. 12, 1933. Paul P. Schoenburg, Los Angeles, Calif. Renewed Dec. 12, 1953, to Paul P. Schoenburg, Salinas, Calif. Fresh Vegetables. Class 46.

308,636. RHYTHM. Registered Dec. 12, 1933. The Patricia Petticoat Co. Inc. Renewed Dec. 12, 1953, to Semon Wolf, New York, N. Y. Ladies' Silk or Rayon Slips, Nightgowns, Pajamas, Chemises and Petticoats. Class 39.

308,780. "OLD THOMPSON" AND DESIGN. Registered Dec. 19, 1933. Glenmore Distilleries Co., Owensboro, Ky. Renewed Dec. 19, 1953, to Glenmore Distilleries Company, Louisville, Ky., a corporation of Delaware. Whiskey. Class 49.

308,986. "KINGSBURY PALE" ETC. AND DESIGN LINED FOR BROWN. Registered Dec. 26, 1933. Kingsbury Breweries Company, Manitowoc, Wis., a corporation of Wisconsin. Renewed Dec. 26, 1953. Beer of Legal Alcoholic Content. Class 48.

308,987. "KINGSBURY PALE" ETC. AND DESIGN. Registered Dec. 26, 1933. Kingsbury Breweries Company, Manitowoc, Wis., a corporation of Wisconsin. Renewed Dec. 26, 1953. Beer of Legal Alcoholic Content. Class 48.

309,011. "MONKEY GLAND" AND DESIGN. Registered Dec. 26, 1933. John F. Howarth, Inc., Long Beach, N. Y. Renewed Dec. 26, 1953, to John F. Howarth, Jamaica, N. Y. Automatic Valve for Cooling and Purifying Lubricants, Saving Gasoline, Etc. Class 23.

309,202. IRGATAN. Registered Jan. 9, 1934. Geigy Company, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 9, 1954. Tanning Materials and Chemical Products Suitable for Tanning Purposes. Class 6.

309,307. "KINGSBURY PALE" AND DESIGN LINED FOR GOLD. Registered Jan. 9, 1934. Kingsbury Breweries Company, Manitowoc, Wis., a corporation of Wisconsin. Renewed Jan. 9, 1954. Beer of Legal Alcoholic Content. Class 48.

309,309. "REGATTA PORT" ETC. Registered Jan. 16, 1934. Valente, Costa & Companhia, Limitada, Villa Nova de Gaya, Portugal, a society organized under the laws of Portugal. Renewed Jan. 16, 1954. Port Wine. Class 47.

309,518. ICY-GRIP. Registered Jan. 16, 1934. Windsor-Lloyd Products, Inc., Wilmington, Del. Renewed Jan. 16, 1954 to Windsor-Lloyd Products, Inc., Philadelphia, Pa., a corporation of Delaware. Tire Chains. Class 13.

309,527. WIDMERHEIMER. Registered Jan. 16, 1934. Widmer's Wine Cellars. Renewed Jan. 16, 1954, to Widmer's Wine Cellars, Inc., Naples, N. Y., a corporation of New York. Wine. Class 47.

309,770. TEXRAY. Registered Jan. 30, 1934. Freydberg Brothers, Incorporated, New York, N. Y. Renewed Jan. 30, 1954, to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts. Ribbon Composed of Cotton and Cellulose Composition Material for Tying Packages and Other Uses. Class 7.

310,104. CONDENSOL. Registered Feb. 13, 1934. New York & New Jersey Lubricant Company, New York, N. Y., a corporation of New York. Renewed Feb. 13, 1954. Lubricating Oils, Lubricating Oil Compositions and Lubricating Greases. Class 15.

310,769. "BOOSTER" AND DESIGN. Registered Mar. 6, 1934. Windsor-Lloyd Products, Inc., doing business as Booster Chemical Engineering Co., Wilmington, Del. Renewed Mar. 6, 1954, to Windsor-Lloyd Products, Inc., Philadelphia, Pa., a corporation of Delaware. Polishing Wax. Class 4.

310,925. "TIP-TOP." Registered Mar. 13, 1934. The American Medicinal Spirits Company, Louisville, Ky. Renewed Mar. 13, 1954, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Whiskey. Class 49.

310,932. "OLD KENTUCKY COLONEL" AND DESIGN. Registered Mar. 13, 1934. The American Medicinal Spirits Company, Louisville, Ky. Renewed Mar. 13, 1954, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Whiskey. Class 49.

310,937. ATHERTON. Registered Mar. 13, 1934. The American Medicinal Spirits Company, Louisville, Ky. Renewed Mar. 13, 1954, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Whiskey. Class 49.

310,980. GILBEY'S. Registered Mar. 13, 1934. W. & A. Gilbey, Limited, London, England. Renewed Mar. 13, 1954, to W. & A. Gilbey, Ltd., New York, N. Y., a corporation of Delaware. Whisky, Gins, Cocktails and Liqueurs. Class 49.

311,519. "PINAUD" ETC. AND DESIGN LINED FOR RED AND BLACK. Registered Mar. 27, 1934. Pinaud, Incorporated. Renewed Mar. 27, 1954, to Ed. Pinaud, Inc., New York, N. Y., a corporation of New York. Liquid for Use on the Hair. Class 51.

311,538. REPRESENTATION OF CIRCLE DESIGN. Registered Mar. 27, 1934. Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana. Renewed Mar. 27, 1954. Hypnotic Medicinal Tablets. Class 18.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

158,192. ELEKTRA. Registered Aug. 29, 1922. Renewed Aug. 29, 1942. A. Bourjois & Co., Inc., New York, N. Y. Rouge, Rouge Powder, Etc. Class 51 (formerly Class 6). New certificate under section 7(c) issued Jan. 12, 1954, to Barbara Gould, Inc., New York, N. Y., a corporation of New York.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 309,148. Registered Jan. 2, 1934. Carter Coal Company, Washington, D. C. Republished by Olga Coal Company, Youngstown, Ohio, a corporation of West Virginia.

OLGA

For Coal.
Claims use since July 28, 1933.

CLASS 2

RECEPTACLES

Reg. No. 92,935. Registered Aug. 12, 1913. American Can Company, New York, N. Y., a corporation of New Jersey. Republished by registrant.

CANCO

For Friction-Top Cans, Coffee-Cans, Spice-Cans, Baking-Powder Cans, Varnish-Cans, Squeeze-Top Cans, Oil-Cans, Syrup-Cans, Olive-Oil Cans, Cracker-Cans, Paint-Cans, Pails, Butchers' Supply-Pails, Five-Gallon Cans, Wire-Top Cans, Open-Top Cans, Square Cans.
Claims use since July 1, 1912.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Reg. No. 302,130. Registered Mar. 28, 1933. National Milling and Chemical Company, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

NAMICO

For Soap Compound, Soap for Laundry Use, Soap for Textile Trade, and an Abrasive and Scouring Detergent.
Claims use since Sept. 1, 1932.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 242,506. Registered May 29, 1928. The Radium Emanation Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

PLATRADON

For Radium, Including Radium Emanation.
Claims use since Feb. 1, 1926.

Reg. No. 305,724. Registered Aug. 22, 1933. Bayer Semesan Company, Inc., Wilmington, Del. Republished by E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware.

SHIRLAN

For General Horticultural Disinfectant.
Claims use since Feb. 8, 1933.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 444,782. Registered July 14, 1953. Atlas Overhead Door Company, Quakertown, Pa., a partnership. Republished by registrant.

ATLAS
STRENGTH
DEPENDABILITY

The words "Strength" and "Dependability" are disclaimed apart from the mark as shown.
For Doors of the Overhead Type, Either Manually or Automatically Operated.
Claims use since Jan. 17, 1946.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 244,863. Registered July 31, 1928. The Carpenter Steel Company, Reading Pa., a corporation of New Jersey. Republished by registrant.

GOLD STAR

For Tool Steels in Bars, Billets, and Shapes.
Claims use since Mar. 10, 1928.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 350,961. Registered Oct. 12, 1937. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

NYSORBO

For Rubbing Liniment and Counter Irritant.
Claims use since about June 1, 1936.

Reg. No. 364,430. Registered Jan. 31, 1939. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

NY-BISMA

For Medicinal Preparation for Oral Use in the Treatment of Certain Gastric Intestinal Disturbances.
Claims use since about Aug. 2, 1938.

Reg. No. 369,805. Registered Aug. 1, 1939. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

NYCARBO

For Ointment Used as an Astringent, and as a Soothing, Protective, and Antiseptic Agent.
Claims use since Mar. 24, 1939.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 303,953. Registered June 13, 1933. The Rola Company, Cleveland, Ohio. Republished by The Rola Company Inc., Cleveland, Ohio, a corporation of Ohio.

Rola

For Radio Receiving Sets and Parts Thereof, Loud Speaker Diaphragms, Transformers, Loud Speaker Parts Consisting of Shells, Voice Coils, Housings, Plates, Cores, Field Coils, Transformer Coils, and Amplifiers.
Claims use since about January 1926.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 93,103. Registered Aug. 19, 1913. Mailometer Company, Detroit, Mich. Republished by Pitney-Bowes, Inc., Stamford, Conn., a corporation of Delaware.

MAIL-OM-ETER

For Combined Sealing and Stamping Machines and Sealing Machines.
Claims use since about June 8, 1909.

Reg. No. 307,989. Registered Nov. 14, 1933. American Can Company, New York, N. Y., a corporation of New Jersey. Republished by registrant.

CANCO

For Can Openers, Bottle Openers, Combined Can Opening and Dispensing Devices Made of Metal or Other Suitable Material for Opening Sheet Metal or Fibre Containers, or Containers of Other Suitable Material for Dispensing Their Contents.
Claims use since Dec. 16, 1932.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 93,432. Registered Sept. 16, 1913. Elgin National Watch Company, Elgin and Chicago, Ill., a corporation of Illinois. Republished by registrant, present address Elgin, Ill.

NATIONAL WATCH CO.

For Watch Movements.
Claims use since April 1867.

CLASS 37

PAPER AND STATIONERY

Reg. No. 363,142. Registered Dec. 13, 1938. The Sorg Paper Company, Middletown, Ohio, a corporation of Ohio. Republished by registrant.

EQUATOR

For Printing Paper and Writing Paper.
Claims use since November 1911.

Reg. No. 389,246. Registered July 29, 1941. The Sorg Paper Co., Middletown, Ohio, a corporation of Ohio. Republished by registrant.

SORG PAPERS SINCE 1852 - TESTED BY TIME

The words "Since 1852 Tested by Time" and "Papers" are disclaimed apart from the mark as shown.
For Toilet Tissue, Wrapping Paper, Printing Paper, Tagboard, Book Paper, Cover Paper, Postal Card Stock, Writing Paper, Creped Paper, Wood Pulp Board, Bristol Board, Processing Papers, Drawing Paper, and Waxing Paper.
Claims use since Dec. 19, 1940.

Reg. No. 442,694. Registered May 10, 1949. The Sorg Paper Company, Middletown, Ohio, a corporation of Ohio. Republished by registrant.

MERIDIAN

For Writing Paper, Printing Paper, Offset Paper, Bristol of High Strength, and Also for Said Paper of Somewhat Lighter Weights But Having Higher Strength Characteristics for General Strong Utility.
Claims use since 1924.

Reg. No. 442,715. Registered May 17, 1949. The Sorg Paper Company, Middletown, Ohio, a corporation of Ohio. Republished by registrant.

SOREX

For Printing Paper, Writing Paper, Tag Paper, Bristol, Cover Paper of High Strength, and Also for Said Papers of Somewhat Lighter Weights but Having Higher Strength Characteristics for General Strong Utility.
Claims use since 1933.

Reg. No. 444,157. Registered Aug. 15, 1950. The Sorg Paper Company, Middletown, Ohio, a corporation of Ohio. Republished by registrant.

WHITE ROCK

For Writing Paper, Bond Paper, and Ledger Paper.
Claims use since 1917.

CLASS 39

CLOTHING

Reg. No. 303,794. Registered June 6, 1933. The Moran Shoe Company, Inc., Carlyle, Ill. Republished by Moran Shoe Company, Carlyle, Ill., a corporation of Illinois.

TINY STEP

For Shoes Made of Leather and Fabric.
Claims use since Dec. 12, 1932.

Reg. No. 305,669. Registered Aug. 22, 1933. The Moran Shoe Company, Inc., Carlyle, Ill. Republished by Moran Shoe Company, Carlyle, Ill., a corporation of Illinois.

WEE WALKER

For Shoes Made of Leather and Fabric.
Claims use since Dec. 12, 1932.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Reg. No. 364,784. Registered Feb. 14, 1939. Cool Maid Candy Company, Salt Lake City, Utah. Republished by J. Fish Smith, doing business as Fruzola Company, Salt Lake City, Utah.

FRUZOLA

For Powder for Making Nonalcoholic Maltless Soft Drinks.
Claims use since July 14, 1938.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 122,730. Registered Sept. 10, 1918. Wm. J. Moxley, Inc., Chicago, Ill. Republished by The Capital City Products Company, Columbus, Ohio, a corporation of Delaware.

ALCO

For Butterin or Margarin Composed of Vegetable Oils and for Oleomargarin.
Claims use since Jan. 15, 1918.

Reg. No. 256,758. Registered May 21, 1929. Pillsbury Flour Mills Company, Minneapolis, Minn. Republished by Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware.

PURE BRED

For Wheat Flour.
Claims use since Dec. 26, 1928.

Reg. No. 340,519. Registered Nov. 10, 1936. Tennant & Hoyt Company, Lake City, Minn., a corporation of Delaware. Republished by registrant.



"Golden Loaf"

For Wheat Flour.
Claims use since Mar. 1, 1934.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 304,152. Registered June 20, 1933. Maison Jeurelle, Inc., Chicago, Ill. Republished by Seventeen, Rye, N. Y., a partnership.

Secret de Jeurelle

For Perfume.
Claims use since Jan. 20, 1933.

Reg. No. 346,598. Registered June 1, 1937. W. F. Straub & Company, Chicago, Ill. Republished by Clark-Millner Sales Company, Chicago, Ill., a corporation of Illinois.

Hide-it

For Toilet Preparation for Hiding Skin Blemishes.
Claims use since July 17, 1935.

Reg. No. 423,233. Registered Aug. 27, 1946. The J. R. Watkins Company, Winona, Minn., a corporation of Delaware. Republished by registrant.

Mary King

For Deodorant Powder, Dusting Powder, Face Powder, Talcum Powder, Sachets—Namely, Perfumed Powder, Rouge, Lipstick, Face Creams, Hand Cream, Powder Base Make-Up, Perfume, Cologne, Hand Lotion, Skin Lotions, Skin Freshener or Astringent, Hair Shampoo, Bath Salts, and Toilet Water.
Claims use since Jan. 25, 1929.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 302,130. Registered Mar. 28, 1933. (Classified in Class 4.) National Milling and Chemical Company, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.
See this number in Class 4 for goods and mark.
Claims use since Sept. 1, 1932.

Reg. No. 423,233. Registered Aug. 27, 1946. (Classified in Class 51.) The J. R. Watkins Company, Winona, Minn., a corporation of Delaware. Republished by registrant.
See this number in Class 51 for goods and mark.
Claims use since Jan. 25, 1929.

REISSUES

JANUARY 12, 1954

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,766

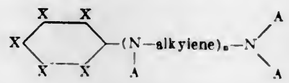
METAL ION CHELATING COMPOUNDS CONSISTING OF MONOPHENYL POLYALKYLENE POLYAMINO POLYCARBOXYLIC ACIDS AND SALTS

Frederick C. Bersworth, Verona, N. J.

No Drawing. Original No. 2,624,756, dated January 6, 1953, Serial No. 193,541, November 1, 1950. Application for reissue August 17, 1953, Serial No. 374,836

6 Claims. (Cl. 260—518)

1. A compound conforming to the formula:



wherein alkylene is one of the group consisting of

$$-CH_2\cdot CH_2-,\quad -CH_2\cdot CH_2\cdot CH_2-,\quad -CH(CH_3)\cdot CH_2-$$

n is a member of the group consisting of 1 to 5; A is one of the group consisting of $-CH_2\cdot COOH$ and $-CH_2\cdot CH_2\cdot COOH$ *and their alkali metal, ammonium and amine salts*; and X is one of the group consisting of hydrogen, hydroxyl, halogen, alkyl and alkoxyl with from one to three of the X groups being halogen.

23,767

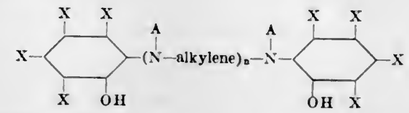
HYDROXY-AROMATIC ALKYLENE DI-IMINO DI-ACETIC ACIDS AND SALTS

Frederick C. Bersworth, Verona, N. J.

No Drawing. Original No. 2,624,760, dated January 6, 1953, Serial No. 193,542, November 1, 1950. Application for reissue August 17, 1953, Serial No. 374,837

6 Claims. (Cl. 260—519)

1. The compounds conforming to the following formula:



wherein alkylene is one of the group consisting of $-CH_2.CH_2-$; $-CH_2.CH_2CH_2-$, and

$$-CH(CH_3CH_2-$$

A is one of the group consisting of $-CH_2.COOH$ and $-CH_2.CH_2.COOH$; n is a positive integer selected from the group consisting of 1 to 5; and X is a member of the group consisting of H, halogen, lower alkyl and alkoxyl, *and the alkali metal, ammonium and amine salts thereof.*

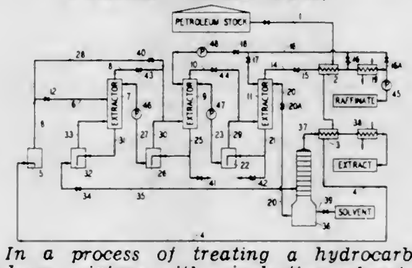
23,768

SELECTIVE SOLVENT EXTRACTION OF PETROLEUM

John Q. Cope, El Cerrito, and William H. Claussen, Berkeley, Calif., assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Original No. 2,215,915, dated September 24, 1940, Serial No. 159,522, August 17, 1937. Application for reissue April 9, 1953, Serial No. 347,860

8 Claims. (Cl. 196—14.41)



6. In a process of treating a hydrocarbon petroleum mixture with a selective solvent to selectively extract carbocyclic non-paraffinic aromatic hydrocarbons therefrom, the steps which comprise passing into an extraction zone at an intermediate point thereof a normally liquid hydrocarbon petroleum fraction containing a mixture of carbocyclic and paraffinic hydrocarbons including aromatic hydrocarbons in which the least volatile paraffinic hydrocarbon normally boils from approximately 20° to 60° F. above the normal boiling point of the most volatile carbocyclic non-paraffinic aromatic hydrocarbon in said mixture whereby an extract free from these higher boiling compounds can be produced, passing a liquid phase selective solvent downwardly through said extraction zone, intimately contacting said hydrocarbon petroleum fraction in vapor phase with said liquid phase selective solvent, separating a vapor phase hydrocarbon raffinate from said liquid phase selective solvent as a top product from said zone, maintaining said selective solvent at said point of separation above the initial boiling point but no more than approximately 20° F. above the dew point of said hydrocarbon fraction under the conditions of extraction, passing the liquid phase selective solvent containing carbocyclic non-paraffinic aromatic hydrocarbons from said extraction zone to an independent distillation zone, condensing said vapor phase hydrocarbon raffinate, and returning to the upper portion of said extraction zone approximately two-thirds of said condensed raffinate.

23,769

METHOD AND MEANS FOR CORRELATING NUCLEAR PROPERTIES OF ATOMS AND MAGNETIC FIELDS

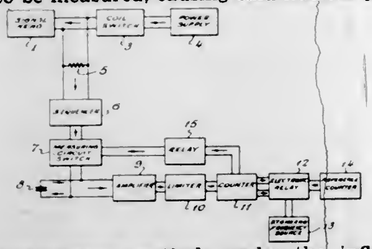
Russell H. Varian, Cupertino, Calif., assignor to Varian Associates, San Carlos, Calif.

Original No. 2,561,490, dated July 24, 1951, Serial No. 55,667, October 21, 1948. Application for reissue July 11, 1952, Serial No. 298,476

19 Claims. (Cl. 324—35)

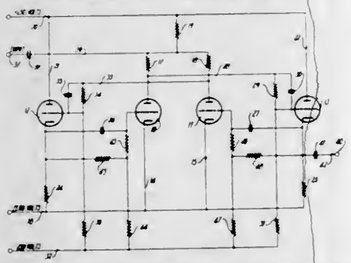
1. The method of measuring magnetic fields which comprises the steps of applying a polariz-

ing magnetic field to the nuclei of a sample of matter at an angle with respect to the magnetic field to be measured, causing said nuclear polar-



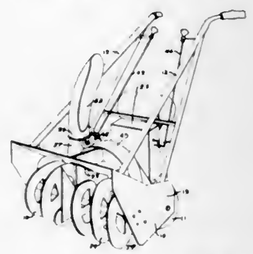
ization to precess entirely under the influence of said field to be measured, and measuring said precession frequency.

23,770
ELECTRONIC TRIGGER
Carl A. Bergfors, Roslyn Heights, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original No. 2,506,439, dated May 2, 1950, Serial No. 67,885, December 29, 1948. Application for reissue April 28, 1951, Serial No. 223,472
8 Claims. (Cl. 250—27)



1. A trigger circuit including first and second trigger tubes alternately conductive and non-conductive and vice versa to represent two stable conditions; plate resistors in the plate circuit of said tubes; a connection from said plate circuit to a source of pulses for effecting a change in the stable condition of said trigger; third and fourth vacuum tubes each having their plates connected directly to a voltage source and their cathodes connected to another voltage source through a resistor in the cathode circuit of each; a resistor and capacitor in parallel between the plate of said first tube and the control grid of said third tube for rendering said third tube conductive when said first tube is non-conductive and rendering said third tube non-conductive when said first tube is conductive; a connection from the cathode of said third tube to the control grid of said second tube for rendering said second tube conductive and non-conductive, respectively, as a result of the conduction and non-conduction of said third tube, said connection including a resistor and capacitor in parallel; a resistor and capacitor in parallel between the plate of said second tube and the control grid of said fourth tube for rendering said fourth tube conductive when said second tube is non-conductive and rendering said fourth tube non-conductive when said second tube is conductive, and a connection from the cathode of said fourth tube to the control grid of said first tube for rendering said first tube conductive and non-conductive, respectively, as a result of the conduction and non-conduction of said fourth tube, said connection including a resistor and capacitor in parallel.

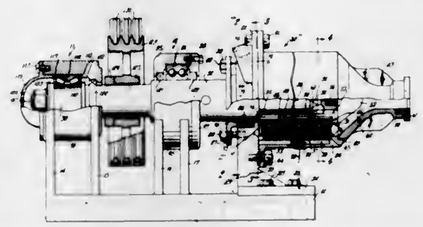
23,771
SNOWPLOW
Isak Vanvick, Minneapolis, Minn., assignor, by mesne assignments, to Merry Manufacturing Company, Inc., a corporation of Washington
Original No. 2,587,415, dated February 26, 1952, Serial No. 6,219, February 4, 1948. Application for reissue September 18, 1953, Serial No. 381,151
1 Claim. (Cl. 37—43)



4. In a rotary self-propelled snow-plow, a frame having a steering handle extending rearwardly therefrom, a power source carried by said frame, a pair of axially aligned helical feed screws of opposite pitch journal-mounted on a forward portion of said frame and having a common rotary axis horizontal and transverse of said frame, said frame being formed rearwardly of said feed screws to provide an annular chamber with a discharge outlet and an open front, said feed screws being arranged to feed snow centrally and direct it rearwardly to said chamber as the feed screws are rotated downwardly at a forward portion thereof, said feed screws giving ground support for at least part of the weight of the snow-plow so as to have sufficient traction to propel the snow-plow forwardly as said feed screws are rotated as aforesaid, a rotary snow transporting element journal-mounted in said chamber for cooperation therewith and for rotation in a direction for discharging the snow fed to the chamber through said outlet, the rotary axis of said element lying substantially in a vertical plane perpendicular to the common rotary axis of the feed screws at a point substantially midway between said feed screws, said chamber having a majority of its open front disposed between the ground and a horizontal plane tangent to the upper edges of the feed screws, said frame having side walls extending rearwardly of said feed screws to help direct the rearwardly fed snow to said chamber, and means interconnecting said power source with said feed screws and snow transporting element to cause the same to rotate as aforesaid in response to the operation of said power source.

23,772
FOAMING APPARATUS
George A. Spencer, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Original No. 2,581,918, dated January 8, 1952, Serial No. 142,275, February 3, 1950. Application for reissue January 6, 1953, Serial No. 329,942
9 Claims. (Cl. 259—9)

9. An apparatus for continuous production of foamed liquid-air mixtures which comprises a central shaft with journal support extending cantilever fashion, a housing secured in surrounding relation to the extension of said shaft and having an exit passage axially aligned with said shaft, a series of spaced stator plates interiorly of said housing having fingers arranged radially of said shaft, a series of spaced rotor plates secured to said shaft and having fingers disposed radially of said shaft and extending into the spaces between pairs of said stator plates, at least one charging opening communicating with



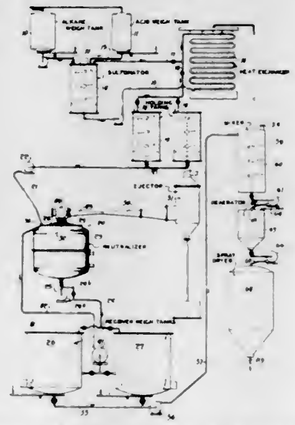
the interior of said housing, a generally conical head on the terminus of the said extension of said shaft, and the said exit passage on said housing having a converging form, defining, with said head, an annular converging passage leading to a final tubular passage.

23,773
AIR-CURRENT DEFLECTOR
Walter H. Bohnenblust, Kansas City, Mo., assignor to Peters & Russell, Inc., Springfield, Ohio, a corporation of Ohio
Original No. 2,561,778, dated July 24, 1951, Serial No. 31,511, June 7, 1948. Application for reissue May 16, 1952, Serial No. 288,290
9 Claims. (Cl. 296—44)



1. An air current deflector of the character described for use on a vertically pivoted vehicle ventilator, comprising a curved wing having a substantially planar edge portion, a bracket having a substantially planar body portion and transversely extending legs secured in spaced apart parallel relation to the planar portion of said wing whereby to provide an air passageway between said bracket body and said wing, and [a] U-shaped clamping means [formed integral with] *on* said bracket to engage the edge portion of said vehicle ventilator and to support the planar portion of said wing at a substantially right angle to said vehicle ventilator.

23,774
VACUUM NEUTRALIZATION OF DETERGENTS
Alan C. Stoneman, San Marino, Calif., assignor to Purex Corporation, Ltd., South Gate, Calif., a corporation of California
Original No. 2,613,218, dated October 7, 1952, Serial No. 167,642, June 12, 1950. Application for reissue July 17, 1953, Serial No. 368,850
13 Claims. (Cl. 252—138)



9. The method of producing a detergent product from a base stock of the class consisting of sulfonated and sulfated organic compounds having an aliphatic radical containing between about 8 to 18 carbon atoms and the alkali metal salts of which have detergent properties, that includes converting said stock to an aqueous slurry of a water dispersable alkali metal salt of the stock by discharging a mixture of said stock and an aqueous solution of an alkali metal hydroxide in finely divided form openly and through an extended path within the atmosphere of a zone maintained at an absolute pressure between about 9 to 88 mm. of mercury and at a temperature between about 50° F. to 120° F., limiting dehydration of the mixture to produce a flowable slurry, mixing solid additives with the slurry, deaerating the resulting mixture at subatmospheric pressure, and spray drying the deaerated mixture.

PLANT PATENTS

GRANTED JANUARY 12, 1954

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,240
ROSE PLANT
Conrad C. O'Neal, near North Canton, Ohio, assignor to Edith C. Bosley, Mentor, Ohio
Application October 31, 1952, Serial No. 318,133
1 Claim. (Cl. 47—61)

The new and distinct variety of climbing rose plant, substantially as herein shown and described, characterized particularly by its new combination of vigorous growth with red new foliage; profuse and continuous everblooming habit; and perfection of bloom having excellent high-centered form, distinct fragrance, long-lasting qualities, and distinct bi-coloring in tones of pink.

1,241
ROSE PLANT
Herbert C. Swim, Ontario, Calif., assignor, by mesne assignments, to Arp Nursery Company, Tyler, Tex., a partnership consisting of Clark Kidd, Letcher A. Dean, and Letcher B. Dean, all of Tyler, Tex.
Application December 29, 1952, Serial No. 328,542
1 Claim. (Cl. 47—61)

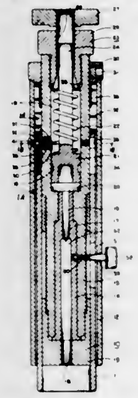
A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized particularly as to novelty by its bushy, compact, much-branched and slightly spreading habit of growth, by the long-pointed and slightly urn-shaped form of its buds, by the double petalage and superior petal substance of its flowers, by the rich yellow color of its buds and flowers, and by the prolonged retention of the coloring, with attending long life of the flowers in respect to both their color and form.

PATENTS

GRANTED JANUARY 12, 1954

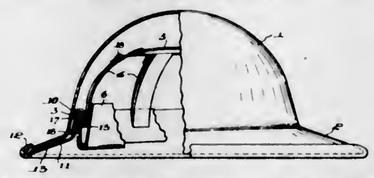
GENERAL AND MECHANICAL

2,665,421
PROJECTILE LAUNCHING DEVICE
Stanley A. Temple, Rocky River, Ohio
Application February 11, 1950, Serial No. 143,690
8 Claims. (Cl. 1—44.5)



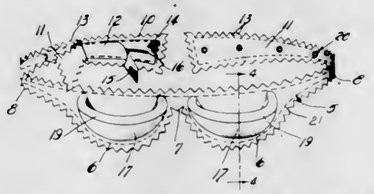
1. A projectile launching device comprising, a gun barrel, a sleeve mounted on said gun barrel for relative telescoping movement between extended and contracted relative positions, said gun barrel having a bore with a combustion chamber portion to hold a firable combustion-actuated projectile, spring urged firing pin means including a firing pin point extendable into said combustion chamber portion, first lock means to hold said firing pin means inactive against the urge of the spring, control means for said first lock means operable by relative movement of said sleeve and said gun barrel from said extended to said contracted relative positions to release said first lock means, and second lock means manually operated to hold said firing pin means inactive against the urge of the spring to prevent unintentional activation of the firing pin means by the control means.

2,665,422
ANNULAR SUPPORT FOR RIGID PROTECTIVE HATS
Daniel A. Green and George H. Delke, Jr., Pittsburgh, Pa., assignors to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 25, 1951, Serial No. 207,776
4 Claims. (Cl. 2—3)



1. A support for a rigid protective hat that has a crown surrounded by a brim, said support being a relatively stiff resilient annular member having an upper portion adapted to extend a short way up into a hat crown adjacent to but spaced from its inner surface and having a flange surrounding the lower end of said portion to extend out along the underside of the hat brim, the flange being provided with a plurality of circumferentially spaced ribs extending substantially radially across it for engagement with the underside of the brim, the outer edge of said flange being provided with an upwardly and inwardly extending marginal portion to form a channel for receiving the edge of the brim to connect said support to the hat, and said upper portion being formed to support a hat lining within the crown, said member being formed of a material capable of being stretched radially to permit the hat brim to be inserted in said channel.

2,665,423
EYE SHIELD
Harriette B. Weber, Saginaw, Mich.
Application June 2, 1951, Serial No. 229,613
4 Claims. (Cl. 2—15)

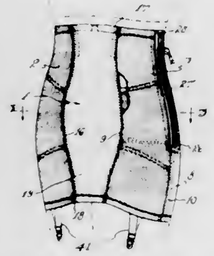


1. In an eye shield, a pair of flexible fabric members shaped to provide a mask having eye covering portions, a flexible band mounted between said flexible fabric members formed of a pair of adhesive strips with their adhesive faces in facial contact, a flexible retaining member mounted between said adhesive strips and shaped to embrace the face, temple and rear portions of the wearer's head, and a pair of arcuately curved light obstructing substantially semi-elliptic strips each secured along one entire edge thereof to the inner face of said mask to engage the face of the wearer beneath the lower eyelid, the elliptic edges of said arcuate light obstructing strips forming curved face engaging portions conforming to the irregularities of the contiguous facial surfaces.

2,665,424
FOUNDATION GARMENT
Gaylord A. Barcley, St. Petersburg, Fla.
Application June 4, 1952, Serial No. 291,674
4 Claims. (Cl. 2—29)

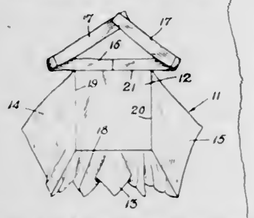
1. A woman's girdle comprising a body-encircling member adapted to extend from a point at or above the waistline of the wearer to a point at or below the buttocks and including a front section, a back section and two side sections each including a panel of non-elastic material, each of said front and back sections having a central longitudinal panel of non-elastic material and a

panel of elastic material at each side of and connected to said central longitudinal panel extending from the top edge to the bottom edge of the garment, said elastic material having a horizontal or girthwise stretch, each elastic panel including an outer piece and an inner reinforcement piece, each of said inner pieces consisting of one piece of elastic material underlying the corresponding outer piece on the inside of the girdle and being



shorter from top to bottom than the outer piece of elastic material so as to extend from a point at approximately the waistline to a point at approximately the hipline of the wearer of the garment whereby said inner elastic reinforcement pieces are shaped and located to provide control of the abdomen and hips of the wearer in addition to the control afforded by said outer pieces and said non-elastic panels of the front, back and side sections.

2,665,425
APRON
Agnes E. Cody, Chicago, Ill.
Application October 17, 1952, Serial No. 315,389
2 Claims. (Cl. 2—48)



1. In a method of making an apron, the steps of providing a first piece, a second piece and a third piece formed with a central circular aperture, said pieces being of similar rectangular shape and size, having said first piece uncut and unruffled to serve as a main section, cutting the second piece diagonally to provide two side sections, securing an edge of the side sections to opposed side edges of the main section, cutting the third piece diagonally from a corner thereof to its circular aperture to provide a ruffle section, securing the edge of the circular aperture of the ruffle section to the bottom edge of the main section to thereby form a ruffling, and securing the diagonal edges of the diagonal cut of said ruffle section to the adjacent edges of said side sections.

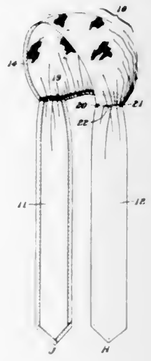
2,665,426
PROTECTIVE GARMENT
Ruth G. Schmidt, Pittsburgh, Pa.
Application June 3, 1950, Serial No. 166,019
1 Claim. (Cl. 2—49)

A protective garment for handling infants comprising an integral shoulder and back portion with separate front panel portions extending from opposite sides of the back portion to cover the upper chest portion of the wearer and tailored to conform to the neck and shoulders of the wearer, the back portion extending a substantial distance from the neck opening down the back entirely across the back and shoulders and beyond the shoulders to cover the upper arm



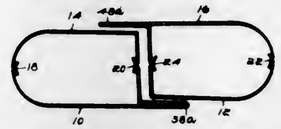
portions of the wearer, the said front panel portions having a single fastening means at the bottom thereof on the adjacent inner edges thereof and being connecterd across the back of the garment by an elastic waist band attached to the outer edges of the front panel portions and adapted to lie below the lower edge of the shoulder and back portion.

2,665,427
TURBAN
Julianne R. Street, Charlestown Township, Chester County, and Janet M. Woolston, Strafford, Pa.
Application August 17, 1951, Serial No. 242,226
1 Claim. (Cl. 2—198)



A turban comprising a blank of pliant textile fabric fashioned to the form of a cap to completely cover the hair of the wearer, said blank having a straight frontal edge of a length to extend over the crown of the head down to the hair line at opposite sides of the face, relatively short and substantially straight side edge portions, and a convexly rounded hemmed bottom edge; a strip of elastic secured under tension within the hem of said bottom edge whereby said hem is yieldingly contracted and adapted to lie beneath the hair line at the nape of the wearer's neck; and two streamers each having one end connected respectively to the substantially straight short side edge portions of the blank, the connected end of one of the streamers being attached at two spaced apart points to provide a slit between the streamer and the adjacent side edge portion of the blank, through which slit the other streamer is adapted to be passed before the two streamers are brought up at opposite sides of the wearer's head and tied together over the brow of the head.

2,665,428
BIFURCATED SKIRT
Raymond F. Bowley, Boston, Mass.
Application July 28, 1950, Serial No. 176,287
4 Claims. (Cl. 2—212)



1. In a garment providing the fit and general appearance of a skirt and the freedom of slacks, in combination, right and left members each having waist, body and leg portions, said members being secured to each other to form depending legs and a straight front-to-back crotch at the median line of the garment, one of said members having a wide vertical pleat in the front extending vertically from the waist portion to the bottom of the garment and laterally from adjacent the median line of the garment toward the other member and overlapping to a substantial extent the other member so as to conceal the space between the leg portions from the front, and the other member having a wide vertical pleat in the back extending vertically from the waist portion to the bottom of the garment and laterally from adjacent the median line of the garment toward the first member and overlapping to a substantial extent the first member so as to conceal the space between the leg portions from the back, said pleats providing enlargements of the respective leg portions.

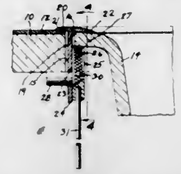
2,665,429
DETACHABLE SHOULDER PAD
Murriel V. Jurich, Alhambra, Calif.
Application October 20, 1951, Serial No. 252,332
6 Claims. (Cl. 2—268)



1. In a detachable shoulder pad, the combination which comprises two projections on that portion of the pad which is adjacent the neck of the wearer and disposed one above the other with the padding of the main body of the shoulder pad extending into the upper projection, additional padding being located in the lower projection, a pair of tapes secured to the adjoining surfaces of the two projections, means secured to the two tapes for fastening the tapes together with a shoulder strap passing between them, and means secured to the lower tape and located between the fastening means and the main body of the pad for engaging the shoulder strap and securing the pad to the strap in response to the pressure of the strap.

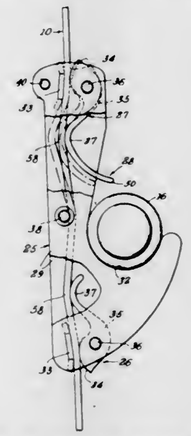
2,665,430
SEALING RIM FOR KITCHEN SINKS
Budd H. Ross, Tillamook, and Alfred C. Jensen, Portland, Oreg.
Application February 6, 1952, Serial No. 270,156
5 Claims. (Cl. 4—187)

1. A rim for sealing kitchen sinks comprising a rectangular band of T-shaped cross section having a vertical tongue adapted to be inserted into the space between a kitchen sink and the opening provided therefor, the lower portion of



said tongue having a hole therein, an eccentric clamping disk having a shaft extending loosely through said hole and means for rotating said disk.

2,665,431
ADJUSTABLE SUPPORT DEVICE FOR LITTERS AND THE LIKE
Edwin C. Elsner, Glendale, Calif.
Application April 13, 1951, Serial No. 220,855
12 Claims. (Cl. 5—9)

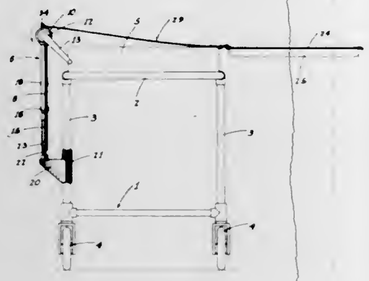


12. A device of the character described, comprising a frame having spaced side plates between which a longitudinal support strap is adapted to pass, transverse, longitudinally spaced fixed members extending between said side plates on one side of the strap, a pivoted lever opposite each member on the opposite side of the strap and provided with a strap-gripping portion, said strap-gripping portions being oppositely directed so that one grips the strap against its transverse member to hold the frame against movement in one longitudinal direction along the strap and the other grips the strap against its transverse member to hold the frame against movement in the other longitudinal direction, and means on the frame to releasably engage an element to support the same from the frame.

2,665,432
PATIENT TRANSFERRING DEVICE
Arnold A. Butler, French Camp, Calif., assignor of two per cent to Florence A. Raymond and two per cent to Margaret Hill, both of Tracy, Calif.
Application February 5, 1949, Serial No. 74,805
4 Claims. (Cl. 5—81)

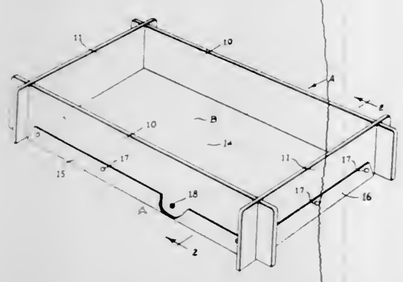
1. Apparatus for transferring a person from a first bed like support to a second bed like support when the two are disposed in side by side

relation, such apparatus comprising a flexible transfer sheet adapted to overlie and rest on the first support beneath such person, a frame, means for attaching said frame to the second support on the side thereof remote from the first support, a roller supported in the frame to lie longi-



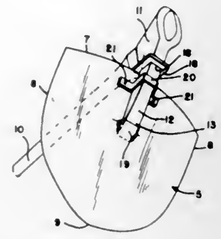
tudinally of the second support, means to rotate the roller, a flexible pull unit mounted in winding relation on the roller and adapted to overlie the second support, and means for quickly detachably connecting the outer edge of the pull unit to one edge of the transfer sheet.

2,665,433
INFANT'S CRIB
Alvin L. Weidt, Minneapolis, Minn.
Application May 5, 1951, Serial No. 224,697
2 Claims. (Cl. 5—99)



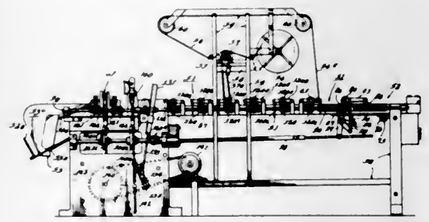
2. In an infant's knockdown crib, two pairs of panels, each panel having a connecting element at each end portion thereof, the connecting elements of one pair of panels coacting with the connecting elements of the other pair of panels connecting the panels together in the form of an enclosure, said connecting elements enabling said panels to be disconnected from each other upon relative edgewise movement between said pairs of panels, a bottom member of flexible material for the enclosure formed by said panels, said bottom member underlying the lower edges of the panels and having marginal flaps upturned against the outer faces of said panels, connections attaching said flaps to said panels at said outer faces thereof thereby joining the bottom member thereto, said bottom member coacting with the panels and alone holding them against relative edgewise disconnecting movement, the connections connecting the flaps to at least one pair of the panels being detachable connections enabling the bottom member to be disjoined therefrom thereby to free the two pairs of panels for relative disconnecting movement therebetween.

2,665,434
MEANS FOR MOUNTING BLADES ON HAND IMPLEMENTS
George L. Saunders, Kennewick, Wash.
Application August 28, 1950, Serial No. 181,772
1 Claim. (Cl. 7—1)



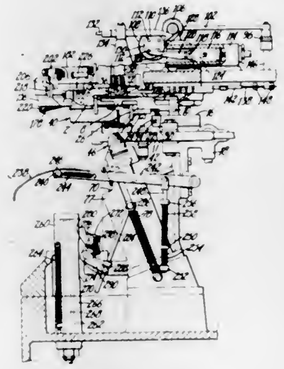
Means for mounting a spaced body to a tool having a bit comprising a socket pressed rearwardly from said body and adapted to receive the free end of said bit, a retaining band secured to the back of said body in vertical spaced relation to said socket and adapted to encircle said bit, a flat depressible spring lip on the body at its upper edge midway the length thereof and extending rearwardly at an upward incline above said retaining band, and an opening in said lip and shaped to conform to the transverse cross section of said bit and of a slightly larger dimension than said bit, whereby the upward tension of said lip is adapted to bind said bit in said opening and preclude accidental upward movement of the bit out of the socket and retaining band.

2,665,435
END SHEET MACHINE
William B. Hildmann, Chicago, Ill., assignor to Brock & Rankin, Inc., Chicago, Ill., a corporation of Illinois
Original application August 17, 1946, Serial No. 691,219, now Patent No. 2,524,259, dated October 3, 1950. Divided and this application July 1, 1950, Serial No. 171,663
24 Claims. (Cl. 11—1)



1. An end sheet machine comprising a bed for traveling folded forms with a medial tape-receiving surface and having an infeed end and a discharge end, means moving forms along said bed from the infeed to the discharge end, means applying a hinge tape to the medial tape surface of the forms during travel between said ends, means medially slitting the applied tape and tape surface, means registering the starting position of forms from said infeed end, and cutting means adjacent the discharge end of the machine and operating automatically upon forms approaching said end to cut the same into a plurality of separate end sheet assemblies.

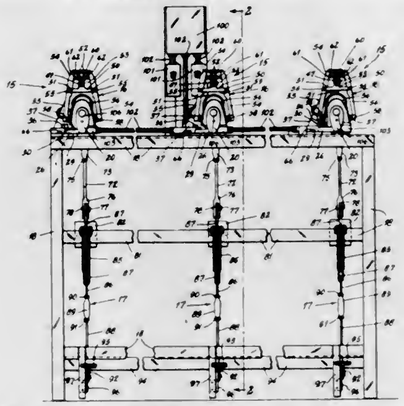
2,665,436
LASTING MACHINE
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 4, 1951, Serial No. 249,702
31 Claims. (Cl. 12—10.1)



7. In a lasting machine, means for wiping the marginal portion of the upper of a shoe on a last inwardly over the bottom of the last at the opposite sides of the ball portion of the shoe, said wiping means comprising at each side of the shoe beyond its toe portion a pair of wipers arranged to extend continuously each beyond the other along the side of the shoe, the wipers extending nearest to the toe end of the shoe being movable in directions lengthwise of the shoe relatively to the other wipers while maintaining continuity with said other wipers, a member arranged to be engaged by the toe end face of each shoe and to be moved in a direction lengthwise of the shoe by movement of the shoe in that direction as the shoe is presented to the machine, and connections between said member and said movable wipers for adjustably moving them in that direction relatively to the other wipers by the movement of said member.

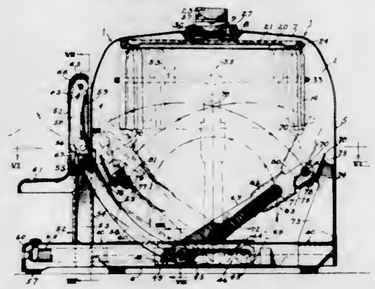
31. In a lasting machine, wipers for wiping the marginal portion of the upper of a shoe on a last inwardly over an insole on the last at the opposite sides of the forepart of the shoe respectively in the course of a cycle of power operations of the machine, grippers for gripping the marginal portion of the upper at the opposite sides of the shoe respectively and for pulling the upper before it is acted upon by the wipers, said grippers being mounted for movements to different positions for operating on right and left shoes respectively, means for thus shifting the grippers in one cycle of operations of the machine to positions for operating on a right shoe and in the next cycle to positions for operating on a left shoe, a toe rest arranged to engage each shoe on the top of the forepart to support the shoe against the pressure applied thereto by the wipers, said toe rest being mounted for movements in directions widthwise of the shoe to different positions for right and left shoes respectively, and a connection between the toe rest and the means for thus shifting the grippers for moving the toe rest to the positions for right and left shoes simultaneously with the shifting of the grippers to the positions appropriate for such shoes.

2,665,437
MACHINE FOR FORMING SHOE QUARTERS
Anton E. Diessel, Fenton, Mo., assignor to International Shoe Company, St. Louis, Mo., a corporation of Missouri
Application December 4, 1950, Serial No. 198,961
5 Claims. (Cl. 12—51)



1. In a machine for shaping one-piece rear shoe quarters, a forming device comprising, in combination, a heated stationary form to receive a rear shoe quarter, a flexible form to cooperate with said stationary form to effect a permanent change in the shape of a rear shoe quarter mounted therebetween, said flexible form being of non-metallic construction, and manually operable reciprocable means connected to opposite ends of said flexible form for imparting a wrapping motion thereto only when a central portion thereof is restrained from translatory movement.

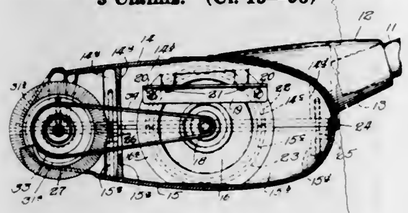
2,665,438
BEATING DEVICE FOR CLEANING DUST MOPS
Bert T. Insley, San Francisco, Calif., assignor, by mesne assignments, to The Edwin Corporation, a corporation of California
Application May 15, 1950, Serial No. 161,963
12 Claims. (Cl. 15—91)



1. A dust mop cleaner for a dust mop head having a main body of fibrous material secured to a holder therefor, said cleaner comprising a support for said mop head adapted to hold said holder with said body suspended therefrom, a beater element supported below said support for generally oscillatory movement in a vertical plane across the space adapted to be occupied by said body when said holder is held by said support, a spring connected at one of its ends to said element for so moving the latter upon tensioning of said spring to a predetermined de-

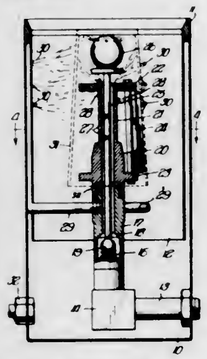
gree and a spring tensioning member connected with the other end of said spring and actuatable by an operator for moving said element for so tensioning said spring.

2,665,439
MOTOR-DRIVEN POLISHER HAVING UPPER AND LOWER CASING SECTIONS
Philip J. More, Chicago, Ill., assignor to Birtman Electric Company, a corporation of Illinois
Application June 22, 1948, Serial No. 34,516
3 Claims. (Cl. 15—98)



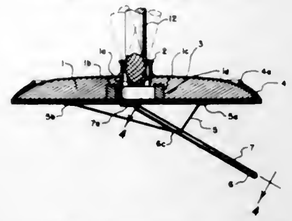
1. A motor-driven polisher comprising a substantially integral upper casing section, a motor fixed to this upper section, a motor driven rotatable polisher member fixed to the upper casing section and bearing the full weight of the polisher, a handle rigidly attached to the upper casing section so that the handle, upper casing section and polisher member form a rigid unit, and a lower casing section removably attached to the upper casing section and enclosing the motor and a part of the polisher member for exposure of these elements on removal of the lower casing section.

2,665,440
TUMBLER RINSER
Stephen S. Starcevich, East Chicago, Ind.
Application December 21, 1948, Serial No. 66,545
2 Claims. (Cl. 15—101)



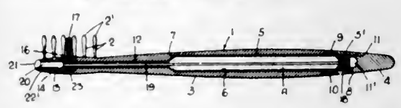
1. In a tumbler rinser, a container having a water inlet opening, a perforated valve casing connected with said inlet extending axially within said container, a spring biased valve within said casing spaced discs supported by said valve casing, a plurality of squeegees supported by said discs about said casing, a reciprocable hollow valve plunger within said casing contacting said valve and a hollow spray head on the upper end of said valve plunger, whereby upon depressing said plunger by an inverted tumbler thereupon, the valve is opened allowing water to pass through said casing and against the inner walls of said tumbler and upon rotation of said tumbler said walls will be cleansed by said squeegees.

2,665,441
MOPHEAD HAVING DUAL WORKING SURFACES
Wong Bing Goon, San Diego, Calif.
Application December 4, 1950, Serial No. 199,068
9 Claims. (Cl. 15—118)



1. In a mop of the class described, a mop head having yarn extending from the lower side thereof, an arm pivoted near the middle of said mop head at the lower side thereof to swing about a horizontal axis, having yarn on the opposite sides thereof, and pivotal into contiguous relationship with the lower side of said mop head at either side of the middle of said mop head.

2,665,442
TOOTHBRUSH WITH REFILLABLE DENTIFRICE DISPENSER
William Martino, Westbury, N. Y.
Application April 16, 1949, Serial No. 87,970
6 Claims. (Cl. 15—137)

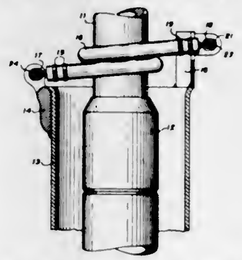


1. A tooth brush dentifrice container unit comprising a main body member having an elongated chamber therein adapted to receive a dentifrice cartridge container having a piston therein, manually operated means passing through the brush end of the unit into said cartridge container and operatively engaged with said piston, a communicating passage from said cartridge to the brush end of the unit and a sealing valve slidably mounted on said manually operated means, said valve in one position closing said passage and in another position opening said passage.

2,665,443
ASTATIC BRUSH FOR GROOMING THE HAIR
Simon A. Simon, Longmeadow, and Arthur H. Drelich, Springfield, Mass., assignors, by mesne assignments, to Chicopee Manufacturing Corporation, Chicopee Falls, Mass., a corporation of Massachusetts
No Drawing. Application June 4, 1949, Serial No. 97,302
4 Claims. (Cl. 15—159)

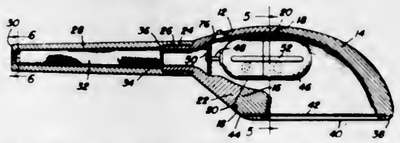
1. A hair brush comprising in combination plastic bristles which have been covered with a dilute dispersion of a compound selected from the group consisting of long chain fatty acid partial esters and poly-oxy-alkylene ethers of long chain fatty acid partial esters of a compound selected from the group consisting of aliphatic polyhydroxy alcohols having from two to six carbon atoms and from two to six hydroxyl groups, monomeric cyclic ethers of aliphatic polyhydroxy alcohols having from two to six carbon atoms and from two to six hydroxyl groups, and polymeric ethers having at least two hydroxyl groups which are condensation products of aliphatic poly-hydroxy alcohols having from two to six carbon atoms and from two to six hydroxyl groups in a volatile carrier and dried.

2,665,444
DEVICE FOR WIPING PIPE
Norman A. Nelson, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application September 8, 1950, Serial No. 183,699
16 Claims. (Cl. 15—210)



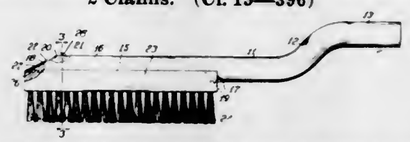
1. Apparatus for wiping pipe and other cylindrical surfaces which comprises, in combination, a deformable longitudinal member defining a cylindrical surface adapted to embrace rotatably the periphery of pipe and other cylindrical surfaces, swivels attached to first and second ends of said member and first and second fixed supporting means for said swivels, said first supporting means being spaced above and a distance apart from the second supporting means, said swivels being movably attached to said supporting means, and said supporting means being adapted to maintain said member in operative relationship to the periphery of pipe and other cylindrical surfaces when said member is wrapped therearound and to allow only limited vertical movement of said member with respect to said supporting means.

2,665,445
VACUUM CLEANER, INCLUDING SECTIONAL HOUSING AND FASTENING MEANS THEREFOR
Edmund C. Foerstel and Rayner L. Kelsey, Los Angeles, Calif.
Application April 13, 1949, Serial No. 87,312
2 Claims. (Cl. 15—344)



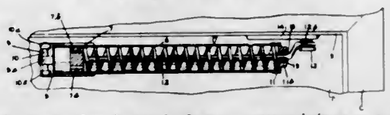
1. A clothes cleaner comprising a housing including a pair of hollow open ended sections having interfitting engagement, a hollow handle detachably secured to one of said sections, a collecting bag received in said handle, a motor mounted in the housing, means securing the motor to each of said sections and retaining the sections assembled, and an impeller blade rotated by the motor for sucking air into the housing and toward the handle, said means including a plurality of ribs fixed to said motor, grooves provided in the inner wall of said sections receiving said ribs and fasteners securing each of said sections to said motor.

2,665,446
DUSTING TOOL
Marvin H. Gregory, Roanoke, Va.
Application February 3, 1950, Serial No. 142,301
2 Claims. (Cl. 15—396)



1. A dusting tool including an elongated tubular member formed from a continuous length of metal tubing of circular cross section and uniform diameter, one end portion of said tubing forming a handle portion, the tubing being cut away at its under side forwardly of said handle portion to provide a longitudinal recess extending to the forward end thereof with a transversely extending shoulder portion at the inner end of said recess, the forward end portion of said recessed part of the length of tubing being slit laterally at opposite sides to provide a partially severed intermediate portion, said intermediate partly severed portion being flattened and reduced in width along its side edges, and the flattened intermediate portion then being bent downwardly against the adjacent end faces of the side wall portions along said slits and secured thereto along its side edges to close the outer end of said forward recessed portion of the tubing, a dusting unit comprising an elongated head of general rectangular form and a dusting element secured thereon, the head of the dusting unit fitting into said recess with its upper side fitting against the bottom faces of the forward side wall portions and lower end of said flattened intermediate downwardly bent portion, and with one end fitting against the transverse shoulder portion at the inner end of said recess, and means securing the head of the dusting unit to said elongated member.

2,665,447
DOOR CHECK AND CLOSER
Tyler K. Lovejoy, Hastings, Minn., assignor to Lovejoy Products, Inc., Hastings, Minn., a corporation of Minnesota
Application February 13, 1950, Serial No. 143,963
3 Claims. (Cl. 16—52)



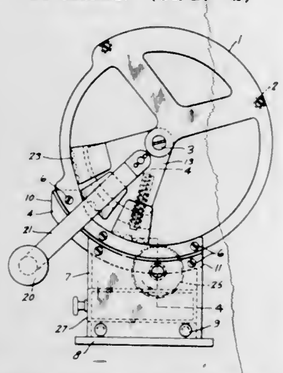
1. A door check and closer comprising a cylinder adapted for application to a swinging door and a doorway in horizontal position, means connected with one end of said cylinder for attachment of said cylinder to permit swinging movement thereof on a vertical axis, a piston slidably mounted in said cylinder and having sealed contact with the inner peripheral wall thereof, an actuating coil spring interposed between said piston and one end of said cylinder, and a piston rod connected with said piston and extending through one end of said cylinder and having at its outer end means for connection to provide for swinging of said cylinder and rod on a vertical axis and for preventing circumferential oscillation of said piston relative to said cylinder during swinging of the latter, said piston having an hydraulic port therethrough adjacent the bottom of said cylinder and having a substantially smaller, constantly open air port therethrough adjacent the top of the said cylinder.

2,665,448
SELF-LOCKING HINGE
Michael J. De Leonardis, Valley Stream, N. Y.
Application August 25, 1949, Serial No. 112,365
2 Claims. (Cl. 16—138)



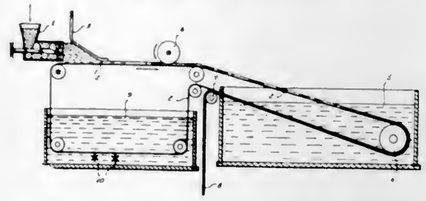
1. A self-locking hinge comprising, a pair of hinge leaves rotatably mounted on a pintle, each of said leaves having a central elevated portion, said portion being slotted with a pair of longitudinally extending slots, spaced apart and defining between them a center strip forming part of said elevated portion, and a locking strap comprising spaced parallel side portions and a web portion, said side portions having end extensions extending beyond the respective extremities of said web portion, said end extensions being spaced apart to bridge said strips and to project into said slots respectively, leaf spring members mounted on the under side of each of said hinge members, each having a recess at one end, and means for mounting said spring members on said leaves respectively overlying the said strip portions of said leaves respectively, and each fixed at one end adjacent said pintle leaving the recessed end free, and pin means mounted between the extensions of the side portions of said locking strap at either end and disposed between the center strip of each leaf and the said spring member overlying it, whereby, when the leaves are bent at a predetermined angle the said pin means are engaged in the recesses of said spring members respectively.

2,665,449
SHRIMP DEVEINER
Frank L. Schneider and Virgil Fancher, Dayton, Ohio
Application May 31, 1951, Serial No. 229,138
14 Claims. (Cl. 17—2)



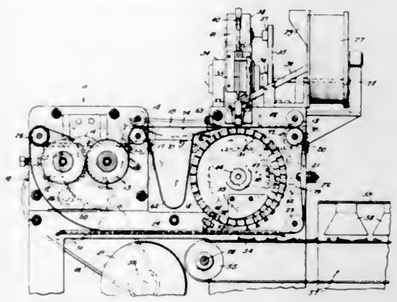
1. A shrimp deveiner including a channeled shrimp receiving track having an open shrimp loading end and an open shrimp discharging end, means for moving a shrimp along said track comprising a plurality of blocks movable along and resiliently urged against said track, a plurality of grooves in the face of said blocks so as to form a shrimp receiving pocket in conjunction with said track, deveining means, the edge thereof projecting into said track in the path of the moving shrimp and means for lifting said blocks from said track at the shrimp loading end thereof.

2,665,450
METHOD AND APPARATUS FOR CONTINUOUS PRODUCTION OF ABSORBING MATERIAL
Curt Axel John Lindquist, Norrkoping, Sweden, assignor, by mesne assignments, to Aktiebolaget Celloplast, Norrkoping, Sweden
Application March 27, 1950, Serial No. 152,092
Claims priority, application Sweden December 12, 1949
9 Claims. (Cl. 18—15)



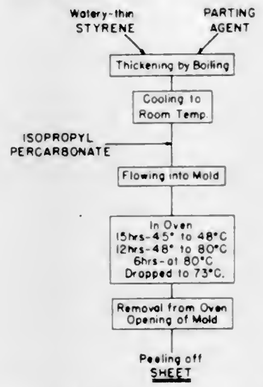
5. An apparatus for producing a continuous sheet of absorbing material comprising a driven endless belt, means for guiding the belt through a coagulating bath, means for guiding the belt through a cooling bath, means to deposit a continuous stream of viscose on the belt, means for spreading the deposited material located adjacent the material depositing means and disposed over and spaced from the belt by the thickness of the web to be formed, and means for reciprocating said spreading means in a direction transverse to the movement of the belt.

2,665,451
APPARATUS AND METHOD FOR MANUFACTURE OF COMPOSITE ARTICLES
Arthur A. Johnson, Bridgeport, Conn., assignor to The Gora-Lee Corporation, Stratford, Conn., a corporation of Connecticut
Application June 17, 1948, Serial No. 33,591
18 Claims. (Cl. 18—21)



10. A machine for making a composite article having a part formed of a relatively rigid member and another part formed from moldable material comprising in combination, a plurality of molding dies, means for successively locating said dies at a molding station, means for positioning moldable stock adjacent the die at said station, mechanism for driving said rigid member through said stock and into the adjacent die and thereby blank out a part of said stock and apply it to said rigid member and mold it in place to form a composite article in said die, and means for ejecting the composite article from the said die.

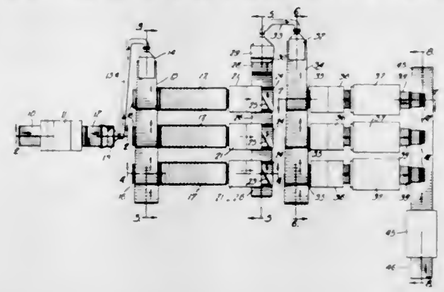
2,665,452
METHOD OF PRODUCING TRANSPARENT POLYSTYRENE SHEETS
John O. Beattie, Stamford, Conn., assignor to Cast Optics Corporation, Riverside, Conn., a corporation of New York
Application August 1, 1951, Serial No. 239,792
3 Claims. (Cl. 18—58)



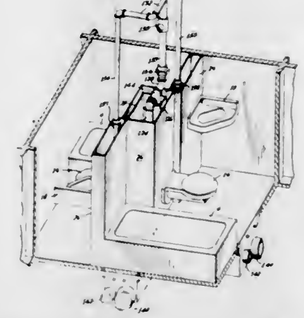
1. The process of producing craze and bubble free molded transparent sheets of polymerized styrene comprising the steps of adding a parting agent to styrene of watery thin consistency, thickening the mixture by boiling at a temperature of about 146° C. for a period of about 10 minutes, allowing the mixture to cool to room temperature, carrying out the heat polymerization of the thickened mixture by admixing therewith isopropyl percarbonate in the amount of from .125% to .5% by weight of the thickened mixture, placing the mixture in a sheet forming mold, curing the mixture in the mold by subjecting the mold to low, intermediate, and high temperature stages for preselected periods of time, where in the low temperature stage the mold is maintained at a temperature not exceeding 55° C. and not less than 35° C. depending on the thickness of the mixture in the mold, for 15 hours, where in the intermediate stage this mold is heated from the temperature of the first stage to a temperature of 80° C. over a period of 12 hours, and where in the high stage the mold is maintained at a temperature of 80° C. for about 6 hours, thereafter reducing the temperature of the mixture within the mold to an annealing temperature of 73° C. and maintaining said temperature for about 30 minutes and removing the mixture from the mold at a temperature of from 71° C. to 73° C.

2,665,453
FIBER BLENDING APPARATUS
John H. Senior, Germantown, and Harmon B. Riehl, Norristown, Pa., assignors to Proctor & Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application May 26, 1950, Serial No. 164,502
17 Claims. (Cl. 19—146)

1. In fibre blending apparatus, a plurality of automatic weighing devices operable to receive fibres and discharge the same in lots of predetermined uniform weight, a plurality of storage and distributing devices corresponding in number to said weighing devices operable to receive fibres and deliver the same at a continuous uniform rate to said weighing devices, a plurality of feed conveyors arranged with one conveyor associated with each distributing device and selectively operable at will to feed fibres to said distributing devices, a single conveyor extending in common to said weighing devices, and an intermediate conveyor interposed between each weighing device and the single conveyor operable to receive and form into mats the fibres discharged from said weighing feeds and including cooperating means to deposit said mats in respectively superimposed relation upon said single conveyor to provide multi-layer mat of the fibres.



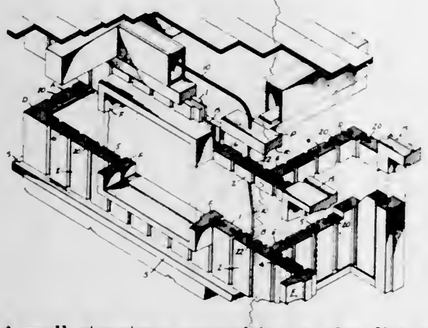
2,665,454
BATHROOM UNIT
Boris A. Krenov, Seattle, Wash.
Application March 28, 1950, Serial No. 152,363
2 Claims. (Cl. 20—1.11)



1. A prefabricated bath room unit comprising a frame having a central portion and side portions extending outwardly from the central portion in opposite directions, the central portion being substantially thicker than the side portions and the side portions being out of alignment with the another, a pair of flush tanks in the central portion, connections extending from the respective flush tanks to opposite sides of the central portion for connection with toilet bowls on opposite sides of said central portion, pipes in each of said side sections having connections extending to opposite sides thereof for connection to toilet basins and bath tubs, respectively, at opposite sides of said side sections, other pipes connected to said flush tanks and the pipes having connections for the toilet basins and bath tubs adapted to be connected to a source

of water supply, a soil pipe in said central section, and connections extending from said soil pipe for connection to bath tubs, toilet basins and toilet bowls at opposite sides of said unit.

2,665,455
STRUCTURAL UNIT AND STRUCTURE
Henry W. Salo, Seattle, Wash.
Application January 9, 1951, Serial No. 205,157
15 Claims. (Cl. 20—4)



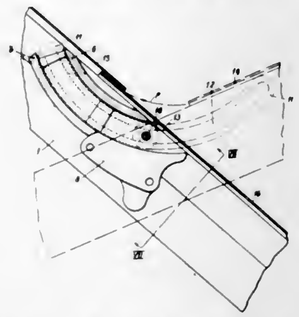
1. A wall structure comprising a plurality of like elongated wooden structural units disposed in parallel, adjoining relationship to define a wall, the majority of said units being generally of H-shape in cross section, to define a cavity entering from one edge, and a groove entering from its opposite edge, separated by a portion connecting the two opposite surface portions, said units being assembled successively with the groove of one opposite the cavitied edge of the adjoining unit, two junction elements projecting from the cavitied edge of the one unit into the groove of the adjoining unit, each with its outwardly directed face seating against one of the inwardly directed faces of such groove, the junction elements being of such thickness relative to the width of the groove as to leave a space between the inwardly directed faces of the junction elements and continuous with the cavity, and a filler of fluent granular material received within such space and bearing against such inwardly directed faces of said junction elements, and the granules of such filler having sufficient unit mass to urge said junction elements mutually outwardly against the inwardly directed faces of the groove wherein they are received, to maintain thereat a tight seal.

2,665,456
REFRIGERATOR DOOR
Evans T. Morton, Chicago, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application May 12, 1950, Serial No. 161,663
1 Claim. (Cl. 20—35)



In a refrigerator door having an outer shell and an inner panel, said shell having marginal portions provided with a stiffening flange extending towards the inner panel and having a free side edge, said inner panel having marginal portions provided with a stiffening flange extending inwardly of the door in spaced relation to the free side edge of the stiffening flange of said shell at an abrupt angle thereto, and a breaker strip formed as a unit of elastic material and comprising an elongated outer side portion constituting a cushion member and having an inner surface bearing against the outer surface of the stiffening flange of the shell, a flat strip integral with the said side portion and projecting laterally therefrom substantially in horizontal alignment therewith for extending across the space between said flanges and with its outer side edge portion bearing against the outer surface of the inner panel beyond the stiffening flange of the panel and constituting an outer gripping jaw, a rib extending along the rear surface of said strip at the junction of the inner side edge thereof with the said cushion member and carrying a flange spaced rearwardly from the inner surface of the cushion member and together therewith defining a channel into which the free side edge portion of the stiffening flange of said shell fits, and a hollow panel-engaging member back of said strip extending the full length thereof and including a rear wall having an inner side edge integral with said rib and along its outer side edge being formed with a lip constituting a jaw for engaging across the rear edge of the stiffening flange of said inner panel, and an outer side wall for the hollow panel-engaging member integral with the strip and extending rearwardly from the said strip and integrally united with the rear wall adjacent said lip, said outer side wall being spaced from the rib a distance greater than the width of the space between the stiffening flanges of the shell and the inner panel, the outer side wall and the rear wall of the panel-engaging member being flexed away from the stiffening flange of the panel in the direction of the stiffening flange of the shell and placing the said side wall and the said rear wall under tension and exerting gripping action upon the said flanges when the breaker strip is between the said flanges.

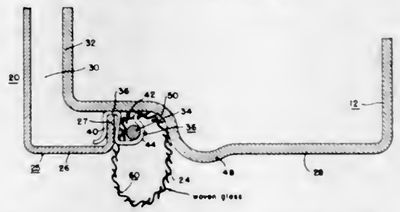
2,665,457
TILTING WINDOW AND MOUNTING THEREFOR
Villum Benedikt Kann Rasmussen, Copenhagen, Denmark
Application July 14, 1947, Serial No. 760,859
In Denmark May 22, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires May 22, 1965
3 Claims. (Cl. 20—42)



1. A mounting for windows of the kind comprising a frame and a sash tiltable relative to said frame about a central horizontal axis, said mounting comprising two main parts arranged to be secured to the sash and the frame respectively, one of said parts having a circular-arc-shaped channel open at one end and having a radius which exceeds the width of the mounting

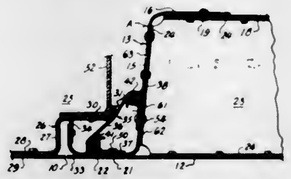
perpendicularly to said axis, and the other of said parts having a rib corresponding in shape to said channel, said rib having a groove situated concentrically within the rib and engaging a stop member carried by the other mounting part and placed near the open end of the channel thereof.

2,665,458
RANGE APPARATUS
Charles A. Wilcox, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 10, 1951, Serial No. 236,025
3 Claims. (Cl. 20—69)



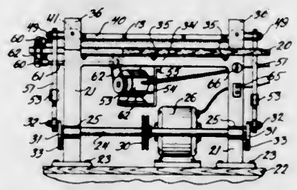
1. An oven construction including a front panel, an oven liner disposed in said panel, said oven liner having an opening, an outwardly disposed peripheral flange surrounding said opening, said flange having a rearwardly extending peripheral portion in abutment with said panel, a door adapted to close said opening, a flexible tubular gasket surrounding said flange, said gasket being compressible by said door to seal said opening, a wire frame extending longitudinally within said gasket and supporting the same, and a plurality of clips disposed in spaced relation with each other, each of said clips having a first bent portion extending into said gasket and gripping said frame and a second bent portion engaging said flange and being held between said panel and said flange, said gasket and said frame being thereby securely fastened to said flange.

2,665,459
CLOSURE SEAL
Webster R. Lee, La Mesa, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application March 20, 1952, Serial No. 277,695
9 Claims. (Cl. 20—69)



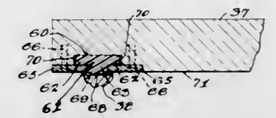
1. A sealing arrangement for a door and an associated structure having a door opening comprising: a frame supported on said structure in surrounding relationship to said door opening having a projecting portion, a flexible, resilient diaphragm, means for supporting said diaphragm at its longitudinal edges upon said door for engagement by said frame projecting portion on closure of the door to effect a continuous seal about the door, said supporting means comprising a pair of peripheral fixtures mounted on said door angularly relative to one another, said fixtures each defining an outwardly opening channel, and a pair of attachment inserts for enwrapment by the longitudinal edges of said diaphragm each adapted to fit within a channel in a fixture to hold said diaphragm in a state of initial tension.

2,665,460
EXPANDED WOOD VENEER
Joseph R. Francek, Fox River Grove, Ill., assignor to Edmund J. Sheehan, Chicago, Ill.
Application August 18, 1943, Serial No. 499,079
3 Claims. (Cl. 20—89)



1. An article of manufacture comprising a sheet of thin wood veneer and a sleazy backing adhered thereto, said article being characterized by a series of piercings made through the backing and sheet of veneer from the back face according to a predetermined pattern by which the wood fibers of the veneer have been spread transversely of the grain uniformly throughout its width.

2,665,461
BLOW PLATE SEAL FOR CORE BLOWING MACHINES
Joseph Rodgers, Flint, Mich., assignor, by mesne assignments, to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania
Application July 30, 1949, Serial No. 107,690
2 Claims. (Cl. 22—10)

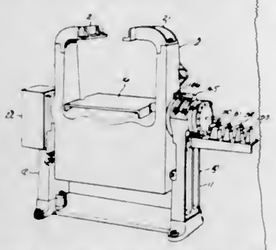


1. In combination, a blow plate adapted for cooperation with a core box for molding cores having a recess formed therein, a sealing means disposed in said recess, said sealing means being of a T-shaped cross section, means engageable with the arms of the T-shaped sealing means for retaining same in the recess, said means defining a T-shaped recess, the body portion of the T-shaped sealing means projecting beyond the surface of the blow plate, said arms of said T-shaped sealing means being in width less than the width of said recess to provide clearance when the body portion is distorted upon engagement with the core box.

2,665,462
ROLL-OVER FOUNDRY MACHINE
Lester C. Young, Cleveland, Ohio, assignor to Spo, Inc., a corporation of Ohio
Application July 19, 1949, Serial No. 105,555
4 Claims. (Cl. 22—32)

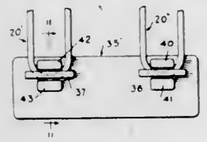
3. In a roll-over machine having a base member and a work unit bearinged on said base member for rotational and swinging movement, the provision of power controls for initiating and stopping movement of the work unit comprising, rotation starter means drivingly interconnecting said base member and work unit, said rotation starter means having a limited power period suffi-

cient only to start rotation of said work unit whereafter the work unit is released to rotate freely by gravity, a power transmission line connected to supply power to said rotation starter means, control means in said power transmission line having a first position to momentarily direct power to said rotation starter means, and a sec-



ond position to release said rotation starter means from all driving and retarding forces in order that the work unit may rotate freely by gravity, and brake means separate from said rotation starter means to arrest rotational and swinging movement of said work unit at any selected position.

2,665,463
GANG PAPER CLIP
John J. Aurynger, Baker, Calif.
Application January 11, 1952, Serial No. 266,064
3 Claims. (Cl. 24—66)



1. A paper clip assembly comprising a backing member of substantially rigid sheet material having at least one straight edge, and a wire paper clip having a butt end and paper-engaging jaw formations extending from said butt end secured at its butt end to said backing member at one side of the latter with its jaw formations extending outwardly of the straight edge of said backing member, said backing member having at least one band struck out therefrom and extending longitudinally thereof substantially parallel to said straight edge, said band having a length substantially equal to the width of an associated paper clip and said paper clip having its butt end inserted under said band and against the adjacent face of said backing member and said backing member having a U-shaped depression of substantially semicircular cross-sectional shape therein extending under said band and receiving the butt end portion of said paper clip.

2,665,464
INVISIBLE SHIRT HOLDER
Henry MacMillan Rodney, Spokane, Wash.
Application February 4, 1952, Serial No. 269,753
3 Claims. (Cl. 24—86)

1. A shirt holder designed to be invisible when in use, comprising an upstanding head having a hook adapted to be hooked over the securing threads of a shirt button beneath the buttoning band, an arm depending from the head and longitudinally curved to dispose its lower end in a vertical plane outwardly spaced from the vertical plane of said head, a bar carried by the lower end of said arm and disposed at an acute angle thereto, said arm depending from said hook at an angle for disposing the bar in front of the buttoning band, said bar being curved longitudinally to substantially conform to the curvature of the abdomen of a human body, longitudinally extending rods imbedded in said bar, one rod being



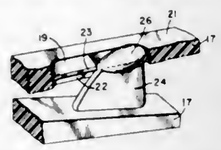
shorter than the other rod and secured to each other in parallel relation, forwardly extending barbs on the ends of the rods and protruding from the bar in spaced relation, each said barb having rearwardly angled faces on its forward end and defining a transversely disposed vertical ridge, and upper and lower points at the ends of the ridge, for catching the trouser fabric and preventing movement relative to the shirt.

2,665,465
CUFF LINK
Karl Albrecht, Maplewood, N. J., assignor to Forstner Chain Corporation, a corporation of New Jersey
Application October 14, 1950, Serial No. 190,219
1 Claim. (Cl. 24—97)



A cuff link construction comprising a center post having spaced parallel sides, an ornamental head secured to one end of said post, a pivot rod of square cross-section secured to the other end of said post and extending between the post sides, a hollow movable head pivotally mounted on said rod for turning movement between the post sides, the sides of said rod being angularly disposed with respect to the post, a U-shaped spring in each end of the movable head having its ends directed inwardly and bent to normally contact the contiguous angularly positioned rod sides, and closure elements closing the movable head ends and engaging the U-shaped springs, whereby the springs selectively retain the movable head in alignment with the post and at right angles thereto.

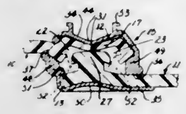
2,665,466
HINGED MEMBER RESTRAINING MEANS
Clarence A. Morgan, Albany, Calif.
Original application July 5, 1949, Serial No. 103,011, now Patent No. 2,590,881, dated April 1, 1952. Divided and this application January 20, 1951, Serial No. 206,995
2 Claims. (Cl. 24—137)



2. In a clothes-pin, a pair of opposed elongated body members arranged to be held for movement

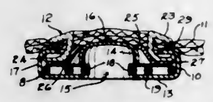
toward and from each other, one of said members having an opening elongated longitudinally of the member and provided adjacent one end with a shoulder at a side and base of the opening whereby the width of the opening adjacent such end will be less than the width of the opening adjacent the other end, a wing on the other body member having a shank portion insertable through and engaging in the opening at the portion of narrower width and having a head insertable through the opening portion of greater width and positioned in overlying relation to the shoulder, said shank portion and head movable axially through said opening as said body members are moved to and from each other, the head engaging said shoulder to limit the movement of the body members away from each other, and means pivotally connecting the body members and retaining the wing member in predetermined relation in the opening independent of engagement of the wing member with the sides of the opening or with the shoulder.

2,665,467
FASTENING DEVICE
George P. Bosomworth, Akron, and Stanley M. Clark, Parma, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application September 5, 1951, Serial No. 245,133
12 Claims. (Cl. 24—201)



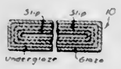
1. A fastener of the type described comprising a pair of longitudinal strips adapted to have their marginal portions overlap in face-to-face contact, one of said portions having a continuous longitudinally extending groove, T-shaped in section, and the other of said portions having a continuous longitudinal rib projecting from said portion and having a T-shaped section adapted to fit snugly within said groove in interlocking engagement therewith and a slide member engaging said portions and adapted to slide along the exterior walls only of said portions whereby to bend said grooved portion into open position and to bring said rib progressively into interlocking engagement therewith as the slide member is moved in one direction and to separate the interlocked portions as the slide members move in the opposite direction.

2,665,468
SPRING WIRE SNAP FASTENER SOCKET
Paul E. Fenton, Middlebury, and Michael J. Carpinella, Waterbury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application December 1, 1951, Serial No. 259,452
3 Claims. (Cl. 24—218)



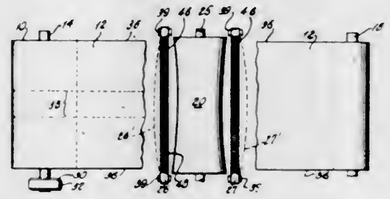
1. A snap fastener socket comprising a socket housing having an annular base with a central tubular upward projection surrounding a stud receiving opening, a peripheral wall projecting upwardly from said base, said tubular projection having transverse slots provided therein adjacent said base, a wire spring member fitted within said socket upon said base and confined by said peripheral wall, said spring member having a pair of yieldingly connected arms positioned in said slots and extending across said opening for snap locking engagement with a stud member, and a ring-like deflector member including an annular rim portion overlying portions of said spring, said deflector member also having an upwardly directed central camming portion which tapers inwardly, the inner edge of said deflector member overlying and bearing against said tubular projection to support said deflector member to prevent the rim of the same from jamming against the resilient parts of said spring, the upper portion of said peripheral wall being turned inwardly over the rim of said deflector member to provide a prong receiving chamber between the same and said deflector member.

2,665,469
METHOD OF MAKING DECORATIVE CERAMIC ARTICLES
Jean de Hymel, Pasadena, Calif.
Application August 15, 1949, Serial No. 110,421
2 Claims. (Cl. 25—156)



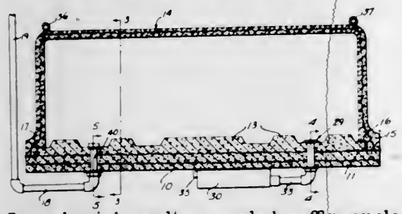
1. A process for producing a pottery article including the steps of: depositing a coating of gum arabic upon a botanical specimen; depositing a coating of slip upon said coating of gum arabic; and firing said coated specimen to produce a bisque replica thereof.

2,665,470
APPARATUS FOR STRAIGHTENING FABRIC
James A. Stapleton, Cornelia, Ga., assignor, by mesne assignments, to Chicopee Manufacturing Corporation, Chicopee Falls, Mass., a corporation of Massachusetts
Application April 25, 1950, Serial No. 157,936
7 Claims. (Cl. 26—51.3)



2. Apparatus for straightening bowed weft strands in fabric having warp strands and weft strands, comprising in combination means for moving the fabric in the direction of its length, a concave roller having a straight line axis of symmetry, means for supporting the roller for rotation about its axis, means for continuously applying tension to the fabric in the direction of its length, and a flexible rod supported at its ends in a position parallel to the axis for guiding the fabric about a substantial circumferential portion of the surface of the roller as the fabric is moved in the direction of its length.

2,665,471
BURIAL VAULT
Don U. Gould, Hawthorne, N. Y.
Application February 20, 1948, Serial No. 9,829
2 Claims. (Cl. 27—35)



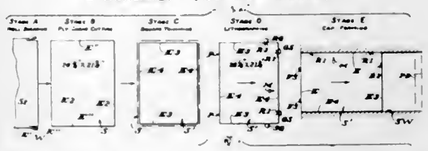
1. In a burial vault, a sealed coffin enclosure having a bottom wall provided with spaced raised portions upon which a coffin is adapted to rest, the spaces between said raised portions defining passages communicating with the interior of the enclosure, a vertically disposed inlet pipe positioned between adjacent raised portions and extending through and carried by said bottom wall and having the upper end in communication with the passage defined by the adjacent raised portions and having the lower end exteriorly of said bottom wall, an upstanding conduit exteriorly of said enclosure and having the lower end connected to the lower end of said inlet pipe and having the upper end adapted to be connected to a source of preservative gas under pressure, a spring biased check valve in said inlet pipe for the admission of a preservative gas from said conduit into said inlet pipe, a vertically disposed outlet pipe positioned between other of adjacent raised portions and extending through and carried by said bottom wall and having the upper end in communication with the passage defined by the other of adjacent raised portions and having the lower end exteriorly of said bottom wall, a spring biased check valve in said outlet pipe for the discharge of gas from the interior of said enclosure, and a discharge pipe exteriorly of said bottom wall and having one end connected to the lower end of said outlet pipe.

2,665,472
CUTTER HEAD
Paul Aschwanden and Karl Burri, Zurich, Switzerland, assignors to Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, Zurich-Oerlikon, Switzerland
Application July 3, 1951, Serial No. 234,926
Claims priority, application Switzerland July 6, 1950
6 Claims. (Cl. 29—105)



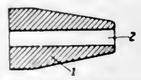
1. A cutter head for cutting spiral bevel gears and the like according to a continuous dividing method with the speeds of rotation of the rotating work piece and of the rotating cutter having a definite relation to each other, comprising an annular member, cutter blades on said member, said cutter blades having curved lateral faces and being shaped like teeth of curved tooth bevel gears, said curved cutter blades being arranged side by side along said annular member and forming curved gaps between opposite lateral faces of adjacent blades corresponding to the tooth gaps of a curved tooth bevel gear wheel, and the top faces of said tooth-shaped annularly arranged blades being situated on a common cone surface.

2,665,473
METHOD OF HANDLING SHEETS AND FORMING DECORATED CAPS
Eibe A. Wilckens, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Original application May 4, 1945, Serial No. 591,975, now Patent No. 2,514,819, dated July 11, 1950. Divided and this application May 15, 1950, Serial No. 162,085
4 Claims. (Cl. 29—148.2)



1. The method of forming articles from a sheet, comprising providing two parallel edges on the sheet by roll-shearing, providing two additional edges substantially normal to said parellel edges, without additional trimming of the sheet registering one of said parallel edges and a point on one of said additional edges with respect to the feed mechanism of a design producing apparatus, feeding the sheet perpendicularly to the registered edge while performing the design producing operation of said apparatus, turning the sheet over and in that position again registering the same edge and point with respect to the feed mechanism of apparatus for performing another design producing operation requiring predetermined orientation with the design produced by the first operation, feeding the sheet perpendicularly to the registered edge and performing the second operation in said required orientation.

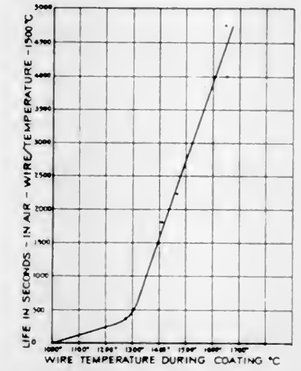
2,665,474
HIGHLY REFRACTORY MOLYBDENUM ALLOYS
Edward A. Beidler, Columbus, and Ivor E. Campbell, Gahanna, Ohio, assignors, by mesne assignments, to Fansteel Metallurgical Corporation, North Chicago, Ill., a corporation of New York
Application March 18, 1950, Serial No. 150,541
8 Claims. (Cl. 29—195)



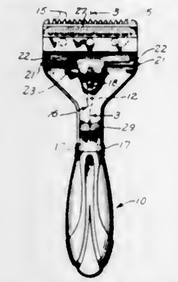
1. As an article of manufacture, a dense body of high strength and high resistance to oxidation, to erosion of gases, to thermal shock and to deformation at temperatures above about 1200° C., consisting of a substantially non-porous cast body of a molybdenum-silicon alloy, the alloy containing from about 22.5% to about 47% silicon.

2,665,475
HIGHLY REFRACTORY BODY
Ivor E. Campbell, Gahanna, and Bruce W. Gonser and Carroll F. Powell, Columbus, Ohio, assignors, by mesne assignments, to Fansteel Metallurgical Corporation, North Chicago, Ill., a corporation of New York
Application March 18, 1950, Serial No. 150,398
1 Claim. (Cl. 29—198)

As an article of manufacture, a refractory metal body comprising a molybdenum base having an exterior layer composed predominantly of an intermetallic compound of molybdenum and silicon consisting of about 37% silicon and the balance molybdenum, the body being characterized by having a high resistance to oxidation at temperatures above about 1000° C.



2,665,476
HAIR TRIMMER DEVICE
Leo W. Leonard, Santa Barbara, Calif.
Application May 18, 1951, Serial No. 226,996
2 Claims. (Cl. 30—30)



1. In a manually operable hair-trimming and cutting instrument, a handle, a shank extending from said handle and provided with a slot, a head arranged on the end of said shank and provided with a plurality of spaced teeth defining a comb, a body member slidably connected to said shank and provided with arcuate flanges slidably embracing said shank, a transverse lip arranged on the upper end of said body member, a pair of trunnions projecting from opposite ends of said lip, a plate having a tongue arranged contiguous to said body member, a pair of spaced parallel ears secured to said plate and pivotally connected to said trunnions, a securing element projecting through said tongue, body member and slot, an arcuate support member carried by said plate, and a plurality of spaced parallel pins extending from said support member for engagement with a razor blade.

2,665,477
SAFETY RAZOR
Glenn T. Randol, Mountain Lake Park, Md.
Application June 24, 1950, Serial No. 170,145
9 Claims. (Cl. 30—51)

1. In a razor, a fixed blade clamping element having spaced lugs, a movable blade clamping element having forwardly located camming surfaces projecting therefrom toward said fixed clamping element and a rearwardly projecting actuating arm, a razor blade interposed between said elements and having one edge confined by the lugs of said fixed clamping element and shoulders spaced from said one edge for receiving thereagainst the camming surfaces of said movable element, and resilient spring means biasing said clamping elements toward one another and into contact with said blade, said spring means providing a fulcrum about which said actuating arm is operable to oppose the biasing force of said spring means.

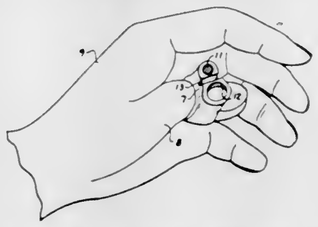


2,665,478
KNEE BAYONET
Albert Clemens, Louisville, Ky.
Application April 28, 1952, Serial No. 284,750
10 Claims. (Cl. 30—297)



1. A knee bayonet comprising a shin guard plate, means for securing the guard plate to the leg of a wearer, a bayonet, means supporting said bayonet on said guard plate for movement between an inoperative position extending downwardly along the guard plate and an operative position projecting above the guard plate, and latch means opposing inadvertent movement of said bayonet from said operative position.

2,665,479
RING TRAY FOR DENTAL USE
James Lee Weldon, West Branch, Mich.
Application October 22, 1952, Serial No. 316,237
1 Claim. (Cl. 32—1)



A device of the character described, comprising a unitary member of non-corrosive material, the lower portion of said member terminating in

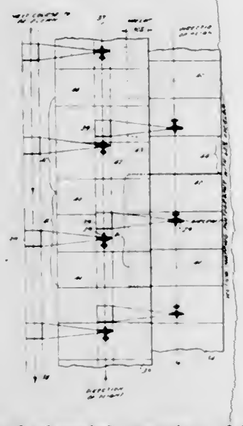
a pair of flexible elements forming a split ring, said member being provided with a comparatively thick body portion, there being a pair of wells formed in the upper face of said body portion, and a transverse groove in said body portion intermediate said wells.

2,665,480
ORTHODONTIC DEVICE
Joseph E. Johnson, Louisville, Ky., assignor to Baker & Co., Inc., Newark, N. J., a corporation of New Jersey
Application October 10, 1950, Serial No. 189,425
1 Claim. (Cl. 32—14)



An orthodontic lock for arch bows comprising a pair of substantially tubular cylindrical members spaced in parallel of each other and integrally formed as convolute ends of a single metallic sheet, said sheet being secured to a tooth band, said tubular members being spaced from each other a distance less than the width of an arch bow employed, whereby said arch bow is insertable edgewise between the said tubular members, a resilient locking member consisting of a wire formed in a substantially rectangular shape having one side thereof rotatably anchored within one of said tubular members, another side of said substantially rectangular member being abuttable against a longitudinal abutment edge of the other tubular member, said abuttable side being movable over said abutment edge to snap said locking member in locking position.

2,665,481
METHOD OF AERIAL MAPPING
James E. Henry, Dayton, Ohio
Application March 2, 1951, Serial No. 213,660
5 Claims. (Cl. 33—1)
(Granted under Title 35, U. S. Code (1952), sec. 266)



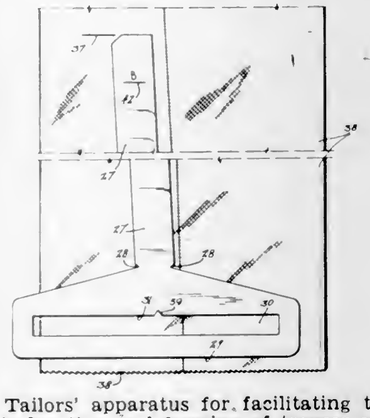
2. A method of aerial mapping of terrain from an aircraft comprising flying a course above an initial line of said terrain, simultaneously photographing the terrain successively along said course from a vertically stationed mapping camera in the aircraft and the terrain adjacent thereto in the direction of the terrain to be mapped from an obliquely directed sighting camera, developing the successive latent photographic images obtained from the sighting camera while proceeding on course, establishing a center line on the images so developed to provide a line of flight to follow as the aircraft completes the initial course, and turning the aircraft to follow the line of flight so determined and repeating the photographing proceeding along such succeeding line of flight.

2,665,482
PROTRACTOR
Albert J. Rupp, South Egg Harbor, N. J.
Application July 2, 1952, Serial No. 296,845
1 Claim. (Cl. 33—1)



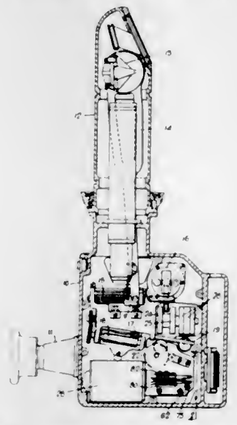
In a foldable protractor, to be supported on the stop of strings, for laying out lines, a long arm, a short arm, pivotally mounted thereon; a semi-circular indicator, graduated in degrees, secured to the short arm and bent downwardly to contact with the long arm; a marker on the long arm to indicate the angle between the two said arms; the outer ends of each of the arms bent downwardly and then outwardly to form identical arcuate guides, the said guides adapted to rest on the top of strings; and the short arm adapted to be moved to a pre-determined position on one of said strings.

2,665,483
MARKER FOR TROUSER CUFFS
Joseph Sabatini, Flushing, N. Y.
Application November 29, 1950, Serial No. 198,191
2 Claims. (Cl. 33—2)



1. Tailors' apparatus for facilitating the accurate locating and forming of trouser cuffs on the bottom of trouser legs having suitably located chalk marks thereon, comprising an inverted substantially T-shaped template including an upright and cross-bar having notches at the juncture of the upright and cross bar thereof and a longitudinal slot in the cross bar, the edge of said slot adjacent said notches being located half way between said notches and the far edge of the cross bar, said notches and said edges acting as guides in marking the trousers for the cuff folds, said upright from said notches to the end edge thereof being of a length to locate the cuffs the desired distance above the floor, the other edge of said slot rather than the far edge of the cross bar being used as a guide for marking a fold line for imitation cuffs, the end edge of the template upright being aligned with said chalk mark to locate the cuff folds accurately.

2,665,484
SEXTANT AND OTHER ANGLE MEASURING INSTRUMENTS
Philip Francis Everitt, Seven Kings, and John Keeble, Ilford, England, assignors, by mesne assignments, to Kelvin & Hughes Limited, Glasgow, Scotland, a British company
Application October 4, 1949, Serial No. 119,492
Claims priority, application Great Britain October 5, 1948
4 Claims. (Cl. 33—70)



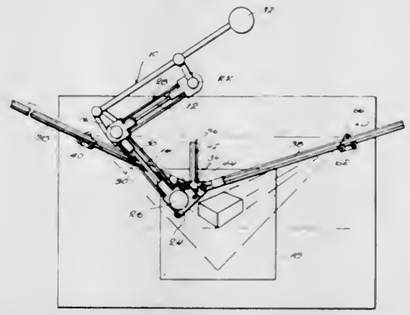
1. An angle measuring instrument having a casing, optical sighting means in the casing, sight angle varying means in the casing, a first motor in the casing for actuating the angle varying means in the forward and reverse directions, dial indicating elements, integrating means, a second motor for driving the integrating means, said integrating means comprising a variable input means connected to said angle varying means and an output connected to feed a resultant movement to at least one of said elements, first limit switch means operated by said angle varying means for switching off the first motor at opposite limits of movement of the angle varying means, second limit switch means for switching off the second motor at opposite limits of drive of the integrating means, cams driven by the second motor for operating said second limit switch means, lighting means in the casing, a plurality of control switches in the casing for controlling the lighting means and the second motor, a reversing gear through which the second motor drives the integrating means, a reversing element for reversing said gear, a rotary cam in the casing for actuating said reversing element, a rocking shaft carrying said cam and extending to a position outside the casing, a control lever outside the casing and connected to said rocking shaft, the lever being manually movable in one direction, spring means for effecting return movement of the lever in the opposite direction, a plurality of cams on said shaft positioned for operating said control switches, whereby a succession of movements of the shaft effects a required sequence of operations of the said switches including actuating the switches for switching the second motor off and on and switching the lighting means off and on and moving the reversing gear from forward drive to reverse drive and from reverse drive to forward drive.

2,665,485
MECHANIC HAND LEVEL
Walter C. Lewis, Dallas, Tex.
Application September 10, 1951, Serial No. 245,847
3 Claims. (Cl. 33—70)



1. A level comprising an elongated frame having a vertically positioned web with flanges on the sides and ends, with a cylindrical opening in the web and with aligned openings in the flanges on the ends of the web, a circular member having radially disposed graduations thereon journalled in the cylindrical opening of the web and a diagonally disposed mirror mounted on the flange on the lower side of the web and positioned to reflect graduations of the circular member through one of the openings in the flanges at the ends of the frame.

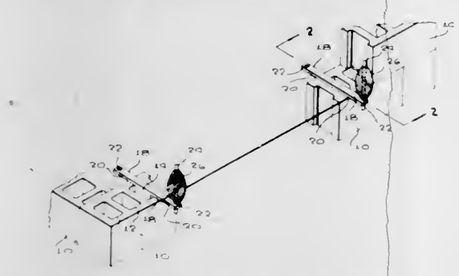
2,665,486
PERSPECTIVE DRAFTING MACHINE
Richard W. Barker, Jeffersonville, and Clifford L. Ash, Sellasburg, Ind.
Application April 17, 1951, Serial No. 221,492
5 Claims. (Cl. 33—77)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A drafting machine comprising parallel mechanism adapted to be anchored adjacent one end thereof for movement over a predetermined drafting area, adapter means including a straight edge, pintles operatively to connect said adapter means to said parallel mechanism at spaced points so as to generate forces when the parallel mechanism is moved over the drafting area effective to maintain the said straight edge in a position to form a guide for drawing vertical

lines on said drafting area, a pair of elongated straight edges each pivotally connected by said pintles to said adapter means and adapted to extend laterally respectively in opposite directions therefrom, and a pair of cradles to control the angularity of the elongated straight edges, said cradles being rockable upon fixed axes coinciding substantially with the vanishing points respectively on opposite sides of the drafting area so as to constrain said elongated straight edges to lie upon the diagonals of a perspective view in said drafting area when the said straight edges are in cooperative relation with the cradles irrespective of the position to which the adapter means is moved.

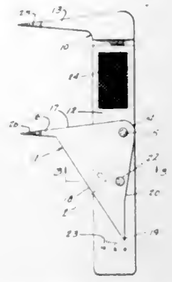
2,665,487
GAUGE LINE HOLDER
Angelo J. Mastrella, Rochester, N. Y.
Application July 11, 1952, Serial No. 298,237
3 Claims. (Cl. 33—85)



1. A gage line holder for use in laying building blocks, comprising a single piece of material shaped to include a weighted body intermediate its ends with said body proportioned to extend downwardly within the opening of a building block, said holder including flat, coplanar wings extending laterally in opposite directions from the upper end of the body, the weight of said body being adapted to exert a downward pull on said wings tending to engage the undersides thereof frictionally with the upper surface of said block in planes common to that of the upper surface of the block, each of said wings having in its underside a plurality of transverse line-receiving grooves grouped side by side within an area spaced inwardly both from said body and from the free end of the wing, for alignment of a selected groove with an adjacent side edge of said block, the free ends of said wings being apertured to receive the spindles of spools on which a gage line is wound.

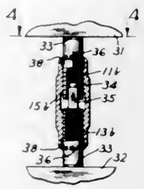
2,665,488
MANDIBLE POSITIONING GAUGE
Hyman S. Tobey, Plainfield, N. J.
Application August 5, 1952, Serial No. 302,672
4 Claims. (Cl. 33—148)

1. A gauge for use in fitting dentures comprising a first flat body of elongated rectangular shape having a first jaw extending substantially perpendicularly therefrom at one end thereof and tapering in a direction away from the body, a second flat body of substantially triangular shape disposed against one side of said first body and having an outwardly tapering second jaw projecting from one corner thereof, pivot means pivotally connecting said second body adjacent a second corner thereof to said first body intermediate the length of the latter in a manner such that said second jaw is spaced from and opposed to said first jaw and said second body extends from said pivot means in a direction away from said first jaw, and a scale of lineal measurement on said first body adjacent



the third corner of said triangular second body indicating differences in the distance between the distal ends of said first and second jaws, said jaws having roughened surfaces at their distal ends to retain a liquid dye thereon.

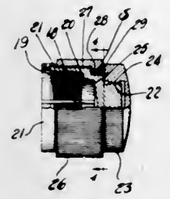
2,665,489
ADJUSTING DEVICE
Hal M. Cunningham, Branford, Conn., assignor, by decree of distribution, to Helen M. Cunningham and Jeanne L. Cunningham
Application October 22, 1949, Serial No. 123,005
2 Claims. (Cl. 33—164)



1. In an adjusting device, a sleeve having open ends threaded internally, a spindle having a threaded end receivable in one end of said sleeve, another spindle having a threaded end receivable in the other end of said sleeve, the threads on one spindle being of different pitch than the threads on the other spindle but of the same hand; the spindle ends within said sleeve being in opposed relation, one of said opposing spindle ends having a cross-slot therein, the other of said spindle ends having a tongue spaced inwardly from said sleeve and extensible into the cross-slot of the first mentioned spindle end to prevent relative rotative movement of said spindles, and comparable indicia on one of said spindles and the adjacent end of said sleeve to indicate the amount of movement of said spindle when the sleeve is rotated thereon.

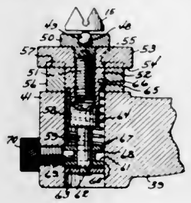
2,665,490
MICROMETER GAUGE
Charles Zelnick, Saginaw, Mich., assignor to The Lufkin Rule Company, Saginaw, Mich.
Application January 19, 1953, Serial No. 331,891
3 Claims. (Cl. 33—164)

1. In a micrometer gauge, the combination with the measuring spindle and the split end sleeve therefor, of an annular clamping member for clamping the split end of the actuating sleeve on the measuring spindle, said clamping member having a grooved end spanning its end wall, a serrated actuating collar disposed on said clamping member overlying said end wall, a spring pawl seated in said groove and having a leg extending peripherally between said collar and said end wall in the direction in which said collar is to be rotated to feed said spindle to the work, the



free end of said leg being in engagement with said serrated collar to maintain said collar and clamping member in rotative, frictional engagement in the absence of counteractive, endwise pressure on the spindle opposing the rotation of said spindle sleeve and clamping member.

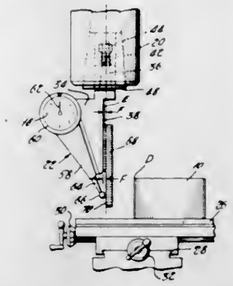
2,665,491
MICROMETER THREAD GAUGE
Frank W. Henslee, Pilot Rock, Oreg.
Application April 14, 1950, Serial No. 155,962
2 Claims. (Cl. 33—167)



2. In a micrometer, an arm provided with an opening, a base mounted on said arm and provided with an opening registering with the opening in said arm, a head having a stem extending into said openings, a cylindrical section of reduced diameter extending inwardly from said stem, a pin extending from said cylindrical section, a collar mounted in the opening in said arm for receiving said pin, a coil spring circumposed on said cylindrical section and pin, there being notches in said collar and in said stem for reeciving the ends of said coil spring, a screw arranged in threaded engagement with said head and stem, said screw being provided with a socket, a ball movably mounted in said socket, a thread gauging jaw connected to said ball, said collar having a groove therein, a thumb screw arranged in engagement with said arm and including a pin for projecting into the groove in said collar.

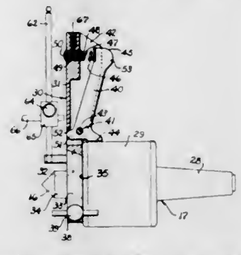
2,665,492
EDGE ALIGNING OR LOCATING DEVICE AND METHOD
Leopold Freimark, New York, N. Y.
Application May 6, 1950, Serial No. 160,447
2 Claims. (Cl. 33—172)

1. A device for locating a piece of material relative to a machine spindle comprising a body member having a flat gauging surface, means on said body member for rotatably holding it in said spindle for rotation about the spindle axis, with said flat gauging surface parallel to the center line of said spindle, indicating means carried by the body member including an actuating lever positioned to intersect both a plane coincident with said gauging surface and the center line of



said spindle, and gauging means for determining the indicator reading with the end of the actuating lever touching the center line of the spindle.

2,665,493
TAIL STOCK INDICATOR HOLDER
Donald G. Keener, Agnew, Calif.
Application February 16, 1951, Serial No. 211,411
7 Claims. (Cl. 33—172)

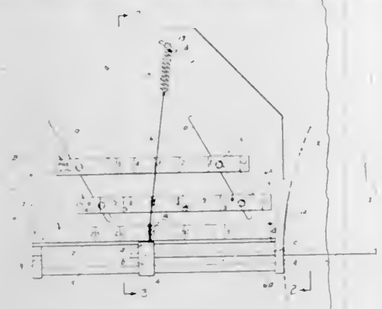


1. A centering device for truing up a work piece mounted between the chuck and the tail stock center pin of a lathe; said device comprising an arm constructed and arranged for coaxial journal mounting on the lathe center pin to leave the point of the latter exposed, said arm extending radially from the center pin axis, means on said arm for securing an indicator thereto with a feeler button engaging said work piece, and manually releasable braking means on said arm for engaging a fixed part of said center pin, said braking means comprising a spring urged presser foot pivotally mounted on said arm, and means for biasing said presser foot into pressing engagement with said center pin.

2,665,494
CARBON INDICATOR FOR FILM PROJECTORS
Carl Mingione, Detroit, Mich.
Application November 13, 1952, Serial No. 320,309
2 Claims. (Cl. 33—172)

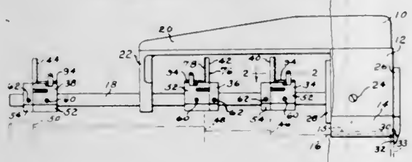
1. A carbon indicator for moving picture projector machines provided with film reel and drum casing, and used therewith, comprising a flat rectangular base plate designed for fixedly mounting on the projector film reel drum at right angles to the axis thereof, parallel slide members rigidly mounted along one base plate side, an indicator slide block slidably mounted on said base plate slides, movable in both directions, an indicator rod fixedly mounted on said slide block and projected within the film roll drum chamber engageable with the reel film surface, a series of "time" and "carbon" tabulating scale members

mounted on said base plate, each parallel with the slide members, each scale being designed with different scale indicator graduations thereon, and a spring adjustable indicator arm pivotally mounted on the opposite base plate side and op-



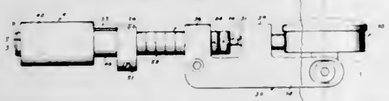
eratively connected to said slide block, said indicator arm being positioned to move over all scale members in common for indicating the readable graduations on the respective scales corresponding to the reel film.

2,665,495
GAUGE
Lambert R. Pistoles, Wilmington, Del.
Application December 13, 1950, Serial No. 200,572
11 Claims. (Cl. 33—174)



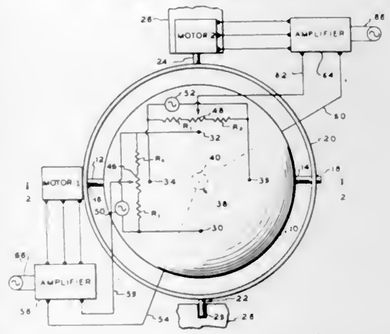
1. In a gage of the type described, in combination, a support rod, means for supporting said rod in parallel relation and in fixed axial relation to a turned object having a transverse shoulder axially along its length, a pair of blocks mounted on said rod, said blocks each having an aperture through which said rod extends, and means for frictionally securing said blocks in position upon said rod, one of said blocks having a plane surface at right angles to the axis of said aperture and adapted to face the adjoining block, and the other of said blocks having an adjacent parallel face having a transverse groove therein, a gaging blade having parallel edges slidably disposed in said groove, and with one of said edges in sliding engagement with said plane surface, and means mounted in said last-named block for slidably moving said blade in said groove to project an end of said blade beyond said block toward said object.

2,665,496
INTERNAL COMPARATIVE GAUGE
Robert J. Wynne, Oakland, Calif.
Application July 25, 1949, Serial No. 106,597
7 Claims. (Cl. 33—178)



6. An instrument for comparing the inner diameter of a bore with a standard bore, comprising a tube having openings circumferentially formed thereon, pressure members inside of said tube adapted to move radially through said openings, a dial adapted to register the radial movements of said pressure members, means operatively connecting said pressure members with said dial, a ring gauge having an accurate bore adapted to cooperate with said pressure members to indicate an initial position on said dial, and means retaining said ring gauge for movement relative to said tube, said ring gauge being normally over said pressure members and adapted to be moved away when said instrument is inserted in a bore to be measured, whereby with one insertion of the instrument a bore to be measured may be compared with an accurate standard.

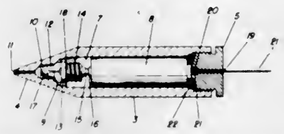
2,665,497
POSITIONAL REFERENCE DEVICE
Maurice E. Bates, North Amherst, Mass.
Application October 22, 1951, Serial No. 252,486
2 Claims. (Cl. 33—206)



1. A positional reference device comprising a hollow member having a spherically shaped upper surface and filled with a conducting liquid, means mounting said spherical member for rotation about two coplanar horizontal axes, motor means for rotating said spherical member about each of said axes, control means for said motor means comprising four electrodes symmetrically positioned at angular separations of 90° in the spherically shaped upper surface of said hollow member outside the plane of said axes, a pair of said electrodes being positioned in a plane perpendicular to each of said axes, a spherical electrode of slightly less density than the conducting liquid whereby the effect of acceleration and deceleration of the hollow member will not move the spherical electrode substantially out of its normal position supported within said hollow member by a flexible conductor attached to the bottom of the hollow member, the length of said flexible conductor being so selected that said spherical floating electrode is spaced a substantial distance from the inner spherical surface of said hollow member to remove said electrode from the influence of any local disturbances caused by the layer of fluid next to the wall of the hollow member, circuit elements connecting each of said pairs of electrodes and said internal electrode member to a power control device actuating the motor means rotating the hollow member about the axis perpendicular to the plane in which said pair of electrodes lies to provide a balanced circuit when the internal electrode is symmetrically positioned with respect to said pair of electrodes and to actuate said power control device when the circuit is unbalanced on displacement of the internal electrode from such

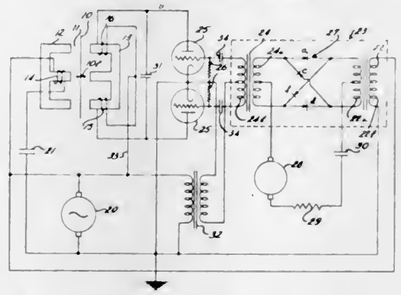
position of symmetry to rotate said hollow member in a direction to restore the internal electrode to such position of symmetry.

2,665,498
ELECTRO PLUMB BOB
Edward C. Mitchell, San Diego, Calif.
Application June 24, 1950, Serial No. 170,126
5 Claims. (Cl. 33—216)



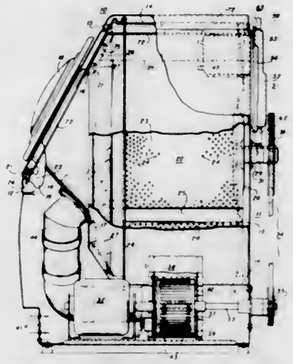
1. An electric plumb-bob, comprising an upright symmetrically formed curvilinear casing of electric conducting material with tip closed at the bottom except for a narrow aperture of uniform diameter extending downwardly from the hollow of said casing; an electric lamp seated within said casing and positioned to cast downwardly a beam of light through said aperture to form a pin point illuminated spot upon the surface below; a dry cell electric battery located within said casing and adapted to be electrically connected to energize said lamp; and a cap plug of electric conducting material threaded to engage with the top of said casing and positioned resiliently to make contact with the upper contact of said battery and to serve as a switch for opening and closing the circuit thereof through said lamp; the said cap having a central aperture extending therethrough and merging into a socket adapted to receive the knotted end of the plumb line, and to lodge the same therein.

2,665,499
PENDULUM AND ACCELERATION COMPENSATION APPARATUS
Raymond T. Cloud, Houston, Tex., assignor to North American Geophysical Co., Houston, Tex., a corporation of Texas
Application April 3, 1948, Serial No. 18,775
10 Claims. (Cl. 33—220)



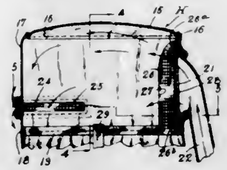
10. A pendulum compensating arrangement for use in a ground vehicle altimeter, comprising, a disk type pendulum pivotally supported for pendulus movement about an axis above its center of gravity and having at least a portion thereof made of electrically conductive material, electrical circuit means including electrical excitation poles adjacent said pendulum to flow flux into the electrically conductive portions of the pendulum for inducing a compensatory torque directly in the pendulum itself, and control means for said circuit means regulating the excitation of said poles to change the flux flow in response to variations in transitory vehicle acceleration for continuously inducing a compensatory torque directly in the pendulum itself equal and opposite to any vehicle acceleration induced torque acting on said pendulum.

2,665,500
DRIER APPARATUS
Edgar L. Zehrbach, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 6, 1949, Serial No. 131,447
4 Claims. (Cl. 34—82)



1. In a drier for fabrics, the combination of a casing structure having a drying chamber formed therein and provided with an access opening in a wall thereof, a door carried by the casing structure and closing said access opening, said door being movable to an open position, means for conveying air to the drying chamber for the abstraction of water from fabrics contained therein, means defining a passage in the casing for the discharge of air and suspended lint from the drying chamber, a lint trap, means arranged on the exterior of the casing for supporting the lint trap and providing for movement thereof between an active position and a warning position, means for moving the lint trap to its warning position and means for energizing said trap moving means in response to movement of said door to its open position.

2,665,501
HAIR DRIER
Alfred L. Jones, Fresno, Calif.
Application May 17, 1951, Serial No. 226,889
1 Claim. (Cl. 34—82)



A hair drier, including: a hood having an annular portion extendable around the head of the user, and provided with an elastic band on its lower edge for holding the hood on the head; an air inlet opening in the rear of said portion; a conduit connected to said portion at said opening for supplying air under pressure to the rear of the hood; an air outlet opening in and extending across the front of said portion; a screen se-

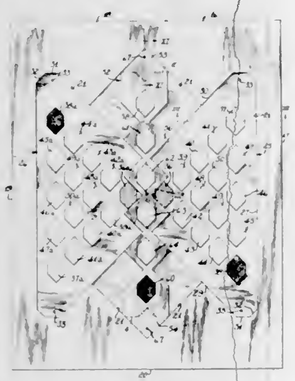
cured to the inner side of said portion to coact therewith to form a pocket spanning the air inlet opening, and having an entrance end facing said band; and an air filter of sheet material extendable into and removable from the pocket through the entrance end thereof.

2,665,502
INSULATED POLE
Ralph C. Parkes, Glenside, Pa.
Application October 9, 1950, Serial No. 189,113
5 Claims. (Cl. 34—240)



1. A pole including a central, cylindrical core, spaced portions of said core being of a smaller cross section than the remainder of said core, split spring rings freely rotatable on said spaced portions, the inside diameter of said rings, when uncompressed, being smaller than the diameter of adjacent portions of said core and the outside diameter of said rings, when compressed, being larger than the diameter of said adjacent portions of said core, and a pipe carried by said rings.

2,665,503
COLOR HARMONY SELECTION SYSTEM
Edith Jean Blanc Miller, Chicago, Ill., assignor to Desarco Corporation, Chicago, Ill., a corporation of Illinois
Application July 5, 1951, Serial No. 235,327
9 Claims. (Cl. 35—28.3)



1. A color harmony selection system comprising a mounting board, a pair of color selecting media held in fixed position on said mounting board, each of said color selecting media consisting of a polygonal-shaped member having a plurality of colored members detachably secured thereto, said members being arranged in the form of a triangle with a colored member containing a selected pure color at one vertex of the triangle, a colored member containing a light tint of the same color at another vertex, and a colored member representing a dark shade of the same color at the third vertex of the triangle, and colored members disposed between the vertices, the colored members disposed between the vertices varying progressively in shades of the selected color between any two of the vertices.

2,665,504
FLEXIBLE WELT SHOE WITH STAGGERED LOCK-STITCHING
Roland G. McConnell, Portland, Maine, assignor to Sebago-Moc Shoe Company, Westbrook, Maine, a corporation of Maine
Application September 8, 1952, Serial No. 308,319
1 Claim. (Cl. 36—17)



A welt shoe comprising a thin flexible insole, an upper having its lasting margin secured in flat condition to the outer face of an insole, a welt overlapping the margin of the upper, two lines of lock-stitches arranged in contiguous parallel relation with adjacent stitches longitudinally staggered and all stitches passing through the welt, the margin of the upper and the insole, thus providing a double lock-stitch bond between the welt and upper, and an outsole stitched to the welt.

2,665,505
FOOT SUPPORT AND METHOD OF MAKING
Julius Baer, Beverly Hills, Calif.
Application October 22, 1951, Serial No. 252,464
7 Claims. (Cl. 36—71)

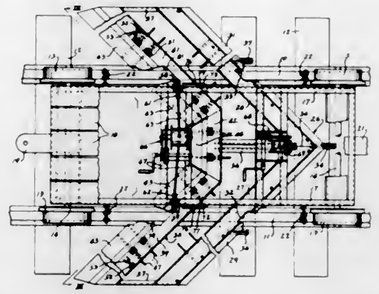


7. A method of making a foot support from superimposed flat layers having a pressure-sensitive adhesive coating therebetween, each of said layers including registering sole portions and registering lateral tab portions integral with the respective sole portions, including the steps of: bending said tab portions upwardly relative to the sole portions and simultaneously producing slippage between the tab portions; and applying pressure to said layers to cause said adhesive coating therebetween to firmly secure said layers together.

2,665,506
BALLAST PLOW AND DISTRIBUTOR
Royce Kershaw, Montgomery, Ala.
Application January 17, 1951, Serial No. 206,321
3 Claims. (Cl. 37—104)

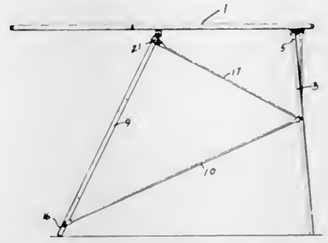
1. In railroad ballast working apparatus the combination with a vehicle adapted to travel along the rails of the track, of a truncated V-shaped plow-like ballast distributor having a pair of plate-like plow wing sections extending

outwardly substantially to the ends of the cross ties and forming acute angles with the longitudinal center line of the railroad track, a medial plate-like section between the rails of the track and disposed substantially normal to the longitudinal center line of the track to which the inner ends of the wings are connected, at least one



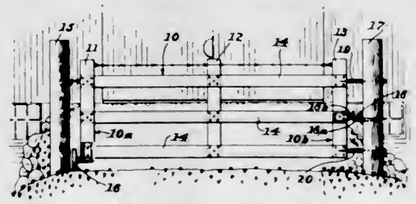
ballast engaging blade pivotally connected adjacent the lower edge of each of the plate-like sections, means mounting the distributor on the vehicle, and stop means on the apparatus limiting pivotal movement of the blades in response to movement of the vehicle in a direction to engage the working sides of the blades with the ballast.

2,665,507
IRONING BOARD SUPPORTING STRUCTURE
Charles T. Gilbert, Saginaw, Mich., assignor to Saginaw Manufacturing Company, Saginaw, Mich., a corporation of Michigan
Application May 24, 1951, Serial No. 228,080
5 Claims. (Cl. 38—117)



1. In collapsible structure for supporting a panel in substantially horizontal position, having a pair of legs pivotally affixed near the rearward corners of said panel, a leg pivotally affixed at a point intermediate the ends of said panel and of substantially greater length than said first two named legs, a pair of brace members pivotally affixed intermediate the ends of said rearward legs and pivotally affixed at their forward ends near the forward extremities of said forward leg, a pair of control members pivotally affixed intermediate the ends of said rearward legs and extending toward said forward leg, slider means affixed to the forward end of said control members and slidably engaging said forward leg, all of said members being so proportioned and their points of fastening to said panel being so spaced with respect to the lengths of said members that when the free ends of said leg members define a plane substantially parallel to said panel said control members will be substantially perpendicular with respect to said forward leg; the improvement in said slider and forward leg construction comprising: said forward leg having a substantially U-shaped cross-section and positioned to open toward said other two legs; said slider encircling said forward leg and having those walls thereof which face said forward leg contoured substantially similarly thereto, and comprising a clamping loop portion encircling said forward leg having tab portions extending rearwardly from said loop, said tabs being spaced apart from each other in generally parallel relationship to each other and pivotally affixed, offset from the geometric center of said tabs, to the forward ends of said control members; said loop being larger in a direction parallel to the flanges of said U-shaped forward leg than the corresponding dimension of said U-shaped forward leg and extensions of said forward ends of the control members bearing against the said tabs of said loop in the manner of a clamp.

2,665,508
FARM GATE
Swan Swanson, Lansing, Mich., assignor to J. Robert F. Swanson, Birmingham, Mich.
Original application June 10, 1944, Serial No. 539,717. Divided and this application August 5, 1947, Serial No. 766,284
7 Claims. (Cl. 39—96)



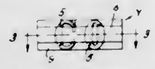
1. A swinging farm gate comprising a frame comprising a plurality of vertical members and a plurality of horizontal members, all of said members being made of the same material, said frame having a swinging end and an end hinged to a post, hinge means connecting said hinged end to said post, said means being adapted to support the weight of said hinged end and yieldingly to urge the corners of said frame toward said post.

2,665,509
TICKET STRIP
Carl A. Flood, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts
Application August 3, 1950, Serial No. 177,426
19 Claims. (Cl. 40—2)



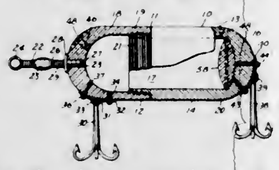
1. A ticket comprising a piece ribbon of sheet material and covering sheet material overlying the piece ribbon and fast thereto, the juxtaposed faces of the two layers of sheet material being unattached throughout portions of the opposed areas of the layers to receive the ends of a thread attaching the ticket to an article and one unattached portion being coated with thermoplastic adhesive so that said ends may be sealed in the ticket by the application of heat and pressure, and the unattached portion of one layer of the ticket having an edge overlying an uncut area of the other layer inside the periphery of the other layer to facilitate the insertion of a thread end between the two layers.

2,665,510
PREASSEMBLED MARKER AND METHOD OF PREASSEMBLING THE SAME
Burritt B. Mitchell, Niagara Falls, N. Y., assignor to Chisholm-Ryder Co., Inc., Niagara Falls, N. Y., a corporation of New York
Application May 15, 1951, Serial No. 226,486
2 Claims. (Cl. 40—125)



1. The method of preassembling markers in predetermined spaced relation to one another, which comprises arranging said markers in separate piles of identical markers with one pile in said predetermined spaced relation to the other pile and with the uppermost markers of said piles at substantially the same elevation, drawing an adhesive strip over said piles out of contact therewith and a predetermined distance therebeyond, adhering said adhesive strip to said uppermost markers of said piles, cutting said adhesive strip a predetermined distance from its leading end and on the side thereof trailing said markers, cutting a backing strip to a predetermined length at least equal to the length of said adhesive strip, and applying said adhesive strip, with said uppermost markers adhered thereto, to said backing strip.

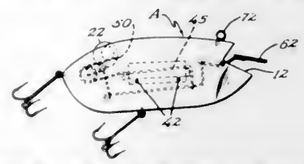
2,665,511
FISHING LURE
Leon L. Bradberry, Berkeley, Calif.
Application May 1, 1951, Serial No. 224,044
1 Claim. (Cl. 43—41)



A fishing plug lure comprising an elongated hollow body formed of transparent thermoplastic material including a forward body portion separably joined to a rearward body portion whereby fish attractive inserts may be disposed within the single cavity formed in said body, said body having substantially hemispherical rounded end portions, a double convex lens disposed within the hollow cavity substantially immediately adjacent said end portions of said body and in axial alignment therewith, said body further being provided with closable ports for allowing entry and circulation of water entirely through said cavity, swivel means attached to the nose of said forward body portion for attaching a fishing line thereto, means for attaching fish hooks associated with said forward and rearward body portions, and fish hooks attached by said means.

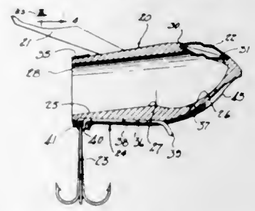
2,665,512
FISH LURE
John J. Sullivan, Lester H. Martell, and Ward H. Ingersoll, St. Paul, Minn.
Application May 21, 1951, Serial No. 227,488
13 Claims. (Cl. 43—42.03)

1. A lure including a lure body, movable means on said body for guiding said lure body upwardly or downwardly as it is drawn longitudinally through the water, resilient means biasing said movable means into either of two extreme positions, and means sensitive to variations in water pressure for actuating said resilient means to thereby cause said resilient means to urge said



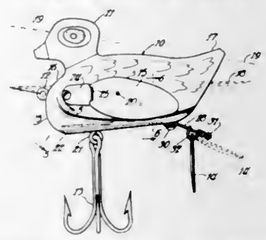
movable means from one extreme position to the other.

2,665,513
ARTIFICIAL FISH LURE
Louie W. Shahan, Selma, Ala.
Application October 14, 1948, Serial No. 54,429
6 Claims. (Cl. 43—42.06)



1. A fish lure comprising a bulbular buoyant body having interiorly thereof a relatively large chamber open at one end and closed at the opposite end permitting water to enter and recede from the chamber through the open end thereof, said body being tapered in each direction from the central regions thereof to define a tail end and a head end, said head end having a concaved portion formed to define a flanged throat at the underside side of the body and extending rearwardly to substantially the central regions of the body, said body when at rest assuming an angular position in the water permitting water to enter the open end to partially fill the chamber and the crowning area of the head being normally disposed above the water line; and a fish hook support comprising a circular member surrounding the periphery of the body adjacent the rear end portions thereof and having a leg extending forwardly at the underside of the body with a hook eye disposed at the terminal point of said circular member and said leg and including a fish line eye disposed at the forward end of the leg adjacent the central regions of the underside of the body.

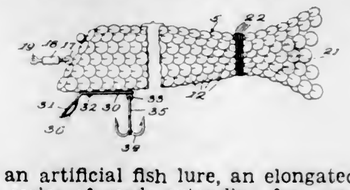
2,665,514
FISH LURE
William M. James, Chicago, Ill.
Application November 14, 1949, Serial No. 126,999
1 Claim. (Cl. 43—42.13)



A fish lure comprising an object having a body portion and a head portion substantially having

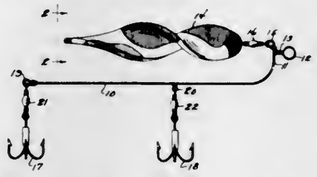
the characteristics of the shape of a duck, said head portion having a neck merging with the body portion, the body portion having an upper surface the rear portion of which curves upwardly and forms a tail end in a plane of substantial lateral extent so as to provide an appreciable water striking surface, the front of the body having substantially midway of the height thereof a securing means for a fishing line and having upwardly and inwardly and downwardly and inwardly inclined surfaces extending from the level of the securing means, a hook secured to the bottom surface of the body in a plane forward of the transverse plane having the center of gravity therein, whereby the object when in water will normally lie in a slight forwardly and downwardly tilted position, securing means on the sides of the body in advance of the center of gravity of the body, and wings pivotally mounted on said securing means and normally extending rearwardly therefrom, said wings being substantially in contact with the side walls of the body, the major portion of the securing means and a substantial portion of the wings cooperating with the hook to cause normal tilting of the body in a forward and downward direction, so that a pull on said fishing line causes a downward movement of the object relative to the surface of the water.

2,665,515
FISH LURE
Alfio A. Frantello, Wadsworth, N. Y.
Application July 17, 1950, Serial No. 174,228
4 Claims. (Cl. 43—42.33)



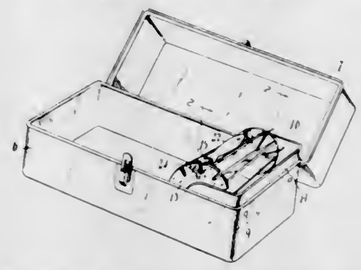
1. In an artificial fish lure, an elongated plug body, a series of cords extending from one end to the other of the plug in substantially spaced parallelism, a plurality of thin light reflecting units having central openings through which said cords pass, the said units being disposed with their lateral and longitudinal edges in overlapping relationship with the edges of adjacent units, and a coating of transparent waterproofing material covering said units and cords adhering the same together in said overlapped relationship and to said plug body.

2,665,516
SPIRAL FISH LURE
Michael W. Race, Mansfield, Ohio
Application April 10, 1951, Serial No. 220,205
3 Claims. (Cl. 43—42.51)



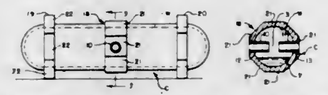
1. In a fish lure, the combination which comprises an L-shaped wire supporting frame having a long leg and a short arm with eyes on the ends of the leg and arm and with a line attaching eye extended from the arm, said leg having an eye intermediate of the length thereof, gang hooks depending from the long leg of the frame, and a freely movable spiral spinning element extended from the short arm of the frame.

2,665,517
HOLDING DEVICE FOR FISH LURES
Henry Archer, Toronto, Ontario, Canada
Application September 6, 1951, Serial No. 245,295
2 Claims. (Cl. 43—54.5)



2. A holder for fish lures and the like comprising a rotatably mounted carrier, said carrier having a plurality of longitudinally extending pockets in its periphery, and means for releasably retaining a lure in each of said pockets, said means including a pair of spaced end members, one of greater diameter than the other, and longitudinal partitions connecting said end members, the larger end member having a radially directed slot between each pair of partitions, and a movable lure supporting member adjacent the smaller end member opposite each slot and extending beyond the periphery of the smaller end member.

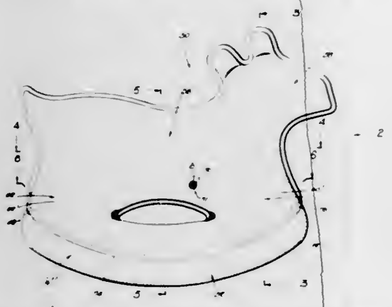
2,665,518
SAFETY POISON-FEEDING DEVICE FOR ANTS AND THE LIKE
Alex Weil, New York, N. Y.
Application March 5, 1947, Serial No. 732,392
7 Claims. (Cl. 43—121)



1. A poison feeder for ants or the like comprising an elongated tube-like container having closed ends and having externally thereof and spaced from each other in the direction of the axis of said container two projecting flange-like means presenting companion non-circular contact faces for non-rolling engagement with a surface on which the feeder is placed, said tube-like container having a portion intermediate of said two spaced flange-like means that has two openings therein on opposite sides of the axis of said tube-like container and two tubes, one for each opening, extending towards said axis and toward each other, said tubes terminating with their inner ends substantially juxtaposed and separated from each other by a distance so proportioned in relation to the length and cross sectional area of the tube that the inner end of one tube cannot be by-passed by a relatively thin instrument inserted angularly through the other tube, said container adapted to hold therein a quantity of poison lure of a depth not exceeding the distance from the inner end of a tube to the inner wall of said container and said tubes providing unobstructed entry and exit for ants or the like, said intermediate portion of said

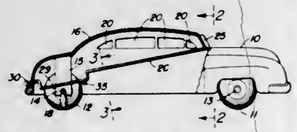
container being of an expanse transversely of said axis less than the expanse of said two spaced flange-like means, whereby, should the feeder be positioned with one of said openings lowermost, said flange-like means holds said lowermost opening away from the supporting surface and free from obstruction thereby.

2,665,519
INFLATABLE ANIMAL TOY
Alexander Burkes, New York, N. Y., assignor to Plastic Innovations, Inc., New York, N. Y., a corporation of New York
Application August 18, 1950, Serial No. 180,121
2 Claims. (Cl. 46—87)



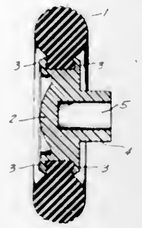
1. An air-inflatable toy horse of the roly-poly type, comprising a hollow flexible air-impervious casing shaped to form the body, head, fore and hind legs and opposite rockers of a rocking horse, said legs and rockers being of such large tubular form that they safely withstand, in the inflated condition of said toy horse, collapse under the weight of a youngster riding the toy horse, and weights secured in the bottoms of said rockers, respectively, said weights extending longitudinally of said rockers, respectively, for substantially the full longitudinal extent of the rockers and urging said toy horse into erect disposition on any firm support, said casing being in the inflated condition of said toy horse so large that the latter has sufficient buoyancy in water to carry the weight of a youngster thereon without sinking.

2,665,520
TOY AUTOMOBILE WITH WINDSHIELD WIPER
Valentine Staccone and Frank Amico, Rochester, N. Y.
Application May 9, 1950, Serial No. 160,916
2 Claims. (Cl. 46—204)



1. In a toy automobile, the combination with a body, a simulated windshield on the body, an axle journaled in the body transversely thereof, and a pair of wheels secured to the outer ends of said axle, said axle having a parallel, offset portion between its ends forming a crank, of a rigid, one-piece wire rod extending longitudinally of the body and journaled adjacent its ends in the body and having an arm integral therewith at one end thereof which is movable across said windshield and which simulates a wiper, said rod having a parallel offset portion between its ends, which is adapted to be engaged by the offset portion of said axle, as the axle rotates, and means for limiting movement of the offset portion of the rod downwardly under force of gravity.

2,665,521
WHEEL FOR MODELS AND TOYS
William E. Ford, Milwaukee, Wis., assignor to Product Miniature Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 20, 1948, Serial No. 52,361
3 Claims. (Cl. 46—221)



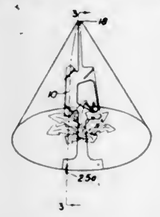
1. A wheel mountable for rotation upon a single axis and comprising a tire of semi-resilient elastomeric molded material, and a central wheel body of hard injection molded thermo-plastic material having a central hub axially thereof for rotatably mounting the same, said tire constituting one part of the mold for said wheel body whereby the latter is formed in intimate outward pressure engagement with said tire and maintains the tire in tension to effect a grip of the tire upon the wheel body.

2,665,522
TOY VEHICLE
Samuel Junod, Geneva, Switzerland
Application November 27, 1951, Serial No. 258,346
Claims priority, application Switzerland April 30, 1951
3 Claims. (Cl. 46—221)



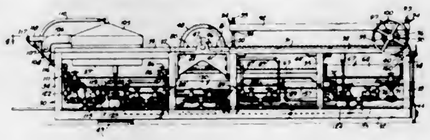
1. In a toy vehicle entirely made of a folded cardboard sheet, comprising a vehicle body having a flat bottom, the provision of a plurality of bearing flaps arranged in pairs downwardly extending from corresponding cut out parts of said bottom, said bearing flaps including a main portion provided with a circular perforation, as well as end portions folded back and contacting said bottom for stiffening purposes, the circular perforations of each pair of said flaps having a common centre line, hollow prismatic axles rotatably carried in said circular perforations, disc shaped wheels provided with a central, polygonal opening through which the end portions of said prismatic axles are frictionally engaged, wheel-holding members fastened to said axles, a lug and slot connection between each wheel-holding member and the corresponding wheel, for holding said wheel at right angles to the prismatic axle thereof.

2,665,523
PROTECTIVE HOT CAP FOR PLANTS
Dale G. Hardman, Provo, Utah
Application April 18, 1950, Serial No. 156,591
7 Claims. (Cl. 47—28)



3. A protective hot cap for plants, comprising a substantially semi-circular blank of sheet material having its diametrical margin cut to define a pair of end tabs, a pair of lower vent-forming indentations, a pair of upper vent-forming indentations, and a pair of fastening formations interposed between the said lower and upper vent-forming indentations within respective opposite halves of said diametrical margin, one of said pair of fastening formations being a tongue having insert tabs at opposite ends thereof, and the other of said pair of fastening formations being two sets of insert slots for said tab portions of the tongue, the first of said insert slots lying proximate the free edge of said diametrical margin of the blank, and the second set of insert slots being spaced inwardly of the blank therefrom by a distance substantially commensurate with the depths of said vent-forming indentations.

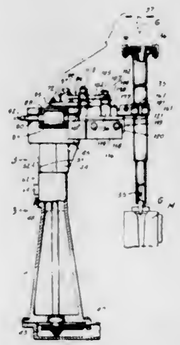
2,665,524
PROCESS AND APPARATUS FOR MAKING GLASS ARTICLES
Ralph Brown, Fall Brook, Calif., assignor to Glass Labeling & Decorating Company, Los Angeles, Calif., a corporation of California
Application March 3, 1950, Serial No. 147,535
26 Claims. (Cl. 49—1)



1. A method of producing a box-like glass article, including the steps of: rolling molten glass upon a supporting surface to provide a glass sheet; transferring said sheet in an inverted position to a surface having a mold cavity to lie across said cavity with such cavity below the inverted sheet; shielding the upper side of the inverted sheet and positively applying a pressure differential to the sides of said sheet for deforming the same downward into said cavity to assume the contour thereof; and thickening the rolled molten glass sheet in zones corresponding with the corners of the box-like article to be produced to provide substantially uniform thickness of the molded article throughout its sides and corners.

3. Apparatus for producing box-like articles, including: a supporting table to receive molten glass; means for rolling said molten glass on said supporting table to form a sheet; groove means disposed to provide extra glass thickness in the glass sheet in regions corresponding with the corners between adjacent walls of the glass article being formed; means mounting said supporting table to swing into an inverted position; a mold member having a mold cavity for contact with the rolled glass sheet with the mouth of said cavity directed toward said sheet and said sheet overlying said cavity upon inversion of said sheet and supporting table; and means for applying a pressure differential to the opposite sides of said sheet to cause said sheet to assume the contour of said mold cavity.

2,665,525
GUIDE TUBE OPERATING MEANS FOR GLASS FEEDERS
Harold A. Youkers, Anderson, Ind., and Walter V. Vierling, Knox, Pa., assignors of one-half to Henry C. Daubenspeck, Massillon, Ohio, and one-half to Samuel E. Winder, West Medway, Mass.
Application August 5, 1950, Serial No. 177,856
24 Claims. (Cl. 49—14)

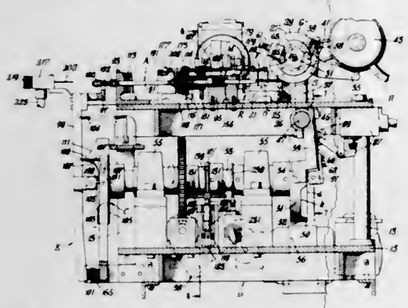


2. In a guide tube operating machine for imparting back and forth movements to a guide tube for delivering charges to molds, a support, guide tube engaging means on the support, locking means releasably maintaining the guide tube engaging means in operating connection with the guide tube, and means for moving the guide tube engaging means to effect movements of the guide tube with movements of the engaging means, said locking means including resilient yieldable means having sufficient strength to maintain said operating connection during normal operations of the guide tube engaging means, but yieldable to free said connection when abnormal forces are applied to the guide tube.

8. In a guide tube operating machine for imparting back and forth movements to a guide tube for delivering charges to molds, a base, a head, guide tube moving means mounted for movement on the head, a driving shaft on the base, a driven shaft on the head and connected with the guide tube moving means to move the same in a predetermined cycle, and adjusting means operable during movemen of the driving shaft for adjusting the driven shaft about its own axis relatively to any particular angular position of rotation of the driven shaft with respect to its own axis.

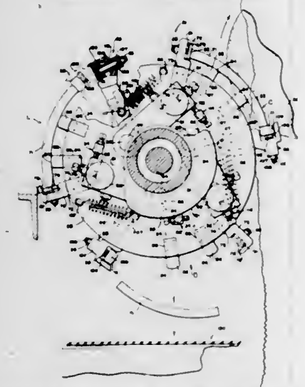
15. In a guide tube moving means for displacing a guide tube for directing glass charges into a moving mold; movable means engageable with a guide tube for displacing it, and yieldable supporting means for holding the movable means in operating position, said yieldable supporting means including a shearable element adapted to shear under abnormal forces tending to displace the yieldable supporting means.

2,665,526
AUTOMATIC GRINDING MACHINE
John F. Pelton, Kenmore, N. Y., assignor to Union Carbide and Carbon Corporation, a corporation of New York
Application June 25, 1951, Serial No. 233,375
21 Claims. (Cl. 51—103)



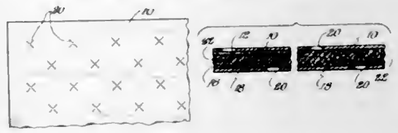
21. A grinding machine comprising, in combination, a support for a blank to be ground; a pair of driven rolls rotatable on longitudinally extending axes, said rolls having opposed peripheral surfaces passing close together and forming a throat for receiving a blank to be rotated; driving means for rotating said driven rolls around said longitudinally extending axes; a grinding wheel rotatable on an axis transverse to and spaced transversely from said first-named axes, said grinding wheel having the peripheral surface thereof passing through said throat in position to grind such blank while such blank is rotated by said rolls.

2,665,527
BRAKE BLOCK CUTTER
John Noall, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application June 9, 1952, Serial No. 292,501
2 Claims. (Cl. 51—108)



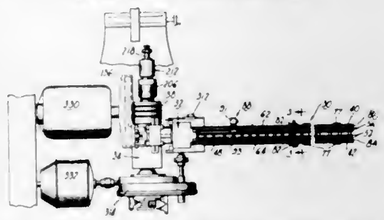
1. A cutting machine for sub-dividing a cylindrically curved longitudinal blank into a plurality of blocks, comprising a rotary gang-saw having spaced cutting discs, a rotatable drum having a cylindrical supporting surface adapted to receive and support said blank with the curved surface of said blank substantially co-axial with the axis of rotation of said drum, a plurality of sets of jaws adapted to receive successive blanks and clamp them in place on said drum while said blanks are being cut transversely by said discs and to release said cut blocks after said cutting operation, each set of jaws comprising a bar extending longitudinally of said drum and fixed thereto and having a radially extending surface providing a seat for one edge of said blank, a second bar extending parallel to said first bar and having a radially extending surface adapted to provide a seat for the other edge of said blank, means responsive to rotation of said drum to move said second bar toward said first bar to clamp said blank therebetween during the cutting operation and to release said blank after the cutting operation, said bars and the surface of said drum being grooved to provide clearance for said cutting discs whereby said blank may be completely severed into said plurality of blocks while being firmly clamped.

2,665,528
DISPOSABLE CLEANSING TISSUE
George L. Sternfield and Myron W. Block, Chicago, Ill.
Application January 27, 1950, Serial No. 140,879
2 Claims. (Cl. 51—185)



1. A non-woven abrasive cleansing tissue comprising a lower filamentous porous backing having high wet strength, an adhesive abrasive cleansing mixture adherent to said backing, said mixture comprising a synthetic resinous binder having a granular abrasive material and a synthetic detergent embedded therein, an upper filamentous porous backing having high wet strength overlaying said mixture and adherent thereto, whereby upon repeated wettings said mixture will slowly disintegrate and be gradually released through said backings.

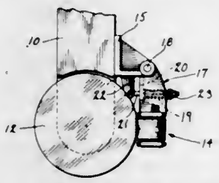
2,665,529
GRINDING MACHINE
Antonin Kasak and Alfred Wesstrom, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 13, 1949, Serial No. 121,112
30 Claims. (Cl. 51—215)



1. In a brake shoe grinding machine, a rotatable shoe clamping drum comprising a cylindrical member having a cavity formed in each end and a pair of axially spaced annular recesses formed in its outer peripheral central portion, a pair of semicircular brake shoe locating segments circumferentially arranged on said cylindrical member in a plane perpendicular to the axis thereof and intermediate said recesses, three adjustable circumferentially spaced brake shoe locating points carried on the outer periphery of each locating segment, said locating points being spaced to engage the ends and center portion of

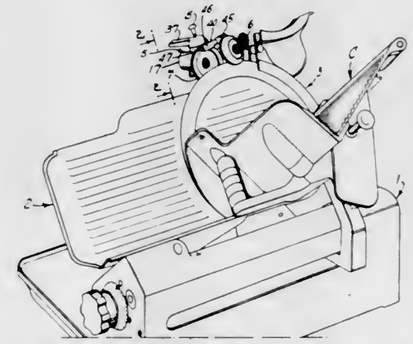
the lateral edge of a brake shoe rim and axially adjustable to compensate for rim manufacturing tolerances, a brake shoe stop plate mounted between each pair of adjacent ends of said locating segments to project slightly beyond the peripheries thereof, a brake shoe locating pin carried in each end of each locating segment adapted to engage a corresponding end of a brake shoe web positioned upon a locating segment, a pair of axially movable semicircular jaw members circumferentially arranged in each recess, each jaw member being in circumferential and axial alignment with a corresponding locating segment, a brake shoe-rim-edge-engaging ledge carried on the outer periphery of each jaw member and adapted to clamp a brake shoe rim between said three locating points and said ledge, an axially extending force transmitting plunger for each of said jaw members reciprocably carried in said cylindrical member with one end of each plunger being connected to the central portion of the corresponding jaw member and the other end thereof projecting away from said jaw member into the adjacent cavity, each jaw member being capable of limited wobbling movement with respect to its plunger, a force generating toggle for each of said plungers connected between the cavity end of the plunger and the wall of the corresponding cavity whereby forceful movement may be imparted to said plunger, an axially extending main force transmitting rod reciprocably carried inside said cylindrical member, each end of said rod terminating in a respective cavity, said rod being operatively connected to one toggle in each cavity, a link member in each cavity connected between the toggles therein adapted to cause actuation of one toggle by release of the other, and a double acting fluid pressure power cylinder operatively connected to one end of said rod, said power cylinder being operable in one direction to close one axially aligned set of jaw members upon the respective locating segment and to open the diametrically opposite set, and operable in the opposite direction to open the closed set and close the open set.

2,665,530
MAINTENANCE DEVICE
James F. Deffenbaugh, Warren, Ohio, assignor to The Federal Machine and Welder Co., Warren, Ohio, a corporation of Ohio
Application September 14, 1951, Serial No. 246,665
3 Claims. (Cl. 51—241)



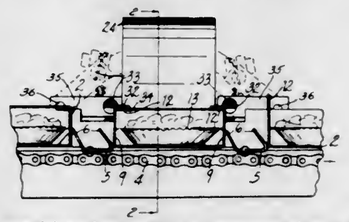
1. In a seam welder having an arm and a seam welding wheel rotatably carried by said arm, the combination of a device for trimming the periphery of said welding wheel comprising a frame including a pair of spaced-apart plates and at least two belt wheels rotatably carried by shafts extending between said plates and over which an endless abrasive belt is trained, said frame being carried by said arm for shifting movement toward and away from said welding wheel and so disposed relative to said welding wheel that said belt is adapted to abrade cross-wise of the peripheral surface of said welding wheel, each of said plates having a slideway formed thereon and said slideways being in corresponding relation, a slide moveably carried in each of said slideways and supporting therebetween one of said shafts whereby the tension of said belt may be adjusted, and a follow block carried by said frame and having a surface backing up a reach of said belt, said follow block being resiliently pressed in a direction toward said welding wheel to urge said belt reach against the periphery of said welding wheel when said frame is shifted to cooperation with said welding wheel, said block surface being contoured complementarily to the desired contour of said welding wheel for the purpose of maintaining such desired contour.

2,665,531
CLEANING DEVICE FOR SLICING MACHINE SHARPENERS
Peter M. Sivertsen, Greenwich, Conn.
Application January 29, 1953, Serial No. 333,858
7 Claims. (Cl. 51—262)



2. A wiper device for the sharpener of the rotary knife of a slicing machine in which the sharpener has a frame and two grinding wheels rotatably mounted thereon, and operatively mounted on the frame to be yieldably pressed against the opposite faces of the knife adjacent its cutting edge to rotate with the same, in which the wiper device is characterized by a bracket mounted on the frame, arms extending from said bracket, and wiper pads mounted on said arms and spaced from one another, the bracket being disposed adjacent the grinding wheel and the arm being movable relative to the bracket to enable said wiper pads to be pressed into engagement with the grinding faces of the two grinding wheels.

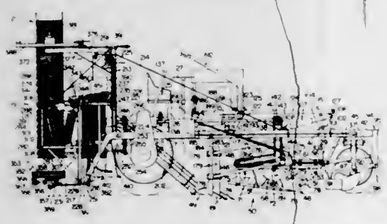
2,665,532
CARTON CLOSING MACHINE
Wayne A. Wood, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.
Application September 14, 1950, Serial No. 184,769
7 Claims. (Cl. 53—147)



1. In combination with a conveyor for advancing generally rectangular cartons in step by step

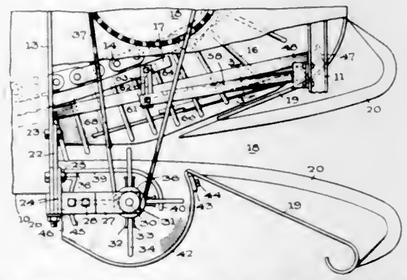
fashion, said cartons being open and having flaps hingedly connected to the end walls thereof and projecting thereabove, means for closing said end flaps at one position on said conveyor comprising, longitudinally spaced supports projecting above said conveyor and located alongside thereof, levers pivotally supported on said supports and swingable about axes transverse to said conveyor, springs connected to the swinging ends of said levers and biasing said levers inwardly and downwardly relative to a carton positioned therebetween, transversely extending pins rotatably mounted on the swinging ends of said levers and projecting transversely over said conveyor and cartons thereon, flap closing blades secured to said pins over said conveyor and having inwardly and downwardly turned fingers on their inner edges, cranks secured to said pins at an inwardly rotated angle from the blades thereon and relative to a carton therebetween, actuating links pivotally connected to the swinging ends of said cranks, cam and lever mechanism driven in timed relationship with said conveyor and connected to said links to reciprocate the same to oscillate said levers and cranks about their pivots, clamps angularly adjustably secured to said pins, stop portions on said levers engageable with said clamps to limit upward and outward rotation of said pins and cranks with respect to said levers and a carton positioned between said levers to resist and overcome the action of said springs tending to swing said pins and levers inwardly, said supports being spaced longitudinally along said conveyor a greater distance than the length of said cartons whereby said pins are positioned adjacent to the upper end edges of a carton on the conveyor when said levers are in their downwardly rotated positions, and adjustable stop means positioned to engage and limit the downward movement of said levers and pins.

2,665,533
BEET HARVESTER
Virgil F. Bozeman, Sr., Moline, Claude W. Walz and Robert D. Griff, Rock Island, and Howard F. Clausen, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Original application October 7, 1944, Serial No. 557,696. Divided and this application January 5, 1949, Serial No. 69,338
3 Claims. (Cl. 55—106)



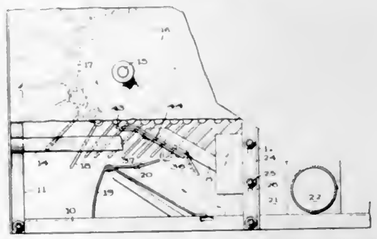
1. A beet harvester comprising a mobile frame, a topping frame, a plurality of arm means mounted in parallel relation on said mobile frame, depending arm means fixed to said mobile frame, a rear pair of links connecting the rear end of said topping frame with the lower portion of said arm means, forward link means disposed generally parallel with said rear pair of links and connecting the forward end of said topping frame with said mobile frame, a pair of vertically spaced bail members disposed in parallelism and connected swingably with said depending arm means, crop engaging lifting means carried by said bails and raised and lowered with the latter, an arm means swingably mounted on said mobile frame in parallelism with said plurality of arm means and connected with said bail members for raising and lowering said lifting means with said conveyor frame.

2,665,534
ADJUSTABLE COTTON PLANT GUIDE
John D. Rust, Pine Bluff, Ark.
Application December 10, 1952, Serial No. 325,089
6 Claims. (Cl. 56—36)



1. A cotton plant guiding device for use with a cotton picking unit having a plurality of rotatably driven cotton picking spindles, said device including an adjustable support adapted to be mounted on said unit, a plurality of arms secured to said support in vertically spaced relation and in a plane normal to said support, a member having a serrated surface affixed to an end of each of said arms and a lever secured to said support for adjusting same and moving said members into position for guiding the cotton plants, the serrated surfaces of said members engaging the cotton plants to fluff the cotton.

2,665,535
COTTON STRIPPING COMB
John D. Rust, Pine Bluff, Ark.
Application March 14, 1952, Serial No. 276,495
3 Claims. (Cl. 56—41)



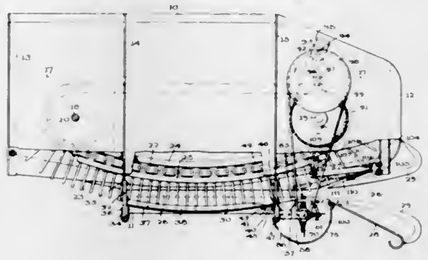
1. In a cotton picking unit wherein stripping means is provided through which cotton picking spindles are drawn to free the cotton from the spindles, the improvement which includes a support, a plurality of superposed ribs secured to said support, said ribs being formed with a reduced end portion adjacent said support and defining with respect to the subjacent rib an air vent opening, said ribs having an edge arranged in spaced relation with a subjacent rib and defining a spindle passage terminating in said air vent opening, a cotton deflector member secured to each rib adjacent said reduced end portion, a stripping bar holder secured to each rib in spaced parallel relation therewith, a pair of stripping bars positioned between each of said ribs and holders, said stripping bars having an end thereof disposed in abutting engagement with said cotton deflector member to prevent said stripping bars from moving in one direction along said ribs, and resilient means positioned between the bars of each pair of stripping bars for continuously urging said bars in yielding contact with the spindles.

2,665,536
SPINDLE DRIVE FOR COTTON-PICKING MACHINES
John D. Rust, Pine Bluff, Ark.
Application October 5, 1951, Serial No. 249,857
23 Claims. (Cl. 56—42)



1. In a cotton picking unit having a plurality of picking spindles, a driving unit for said spindles including a support, a pair of thin flexible plates, said plates being connected together at one end with said end connected to said support, drive rails secured to said plates for rotating said spindles, spring arms positioned between said plates, a spring retaining member, one end of said spring arms being mounted in said retaining member, the other end of said spring arms slidably engaging said plates for urging said drive rails into engagement with the spindles.

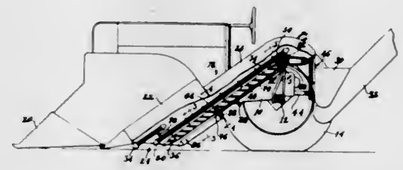
2,665,537
ROTARY COTTON FLUFFER
John D. Rust, Pine Bluff, Ark.
Application April 27, 1953, Serial No. 351,229
6 Claims. (Cl. 56—42)



1. A cotton picking unit having a stalk crowder mounted thereon, a vertically extending curved shaped member secured to one end of said crowder, a plurality of vertically spaced members secured to said curved shaped member and arranged to project therefrom in a common vertical plane, said vertically spaced members having a web like portion with an edge curved to conform with said curved shaped member, said vertically spaced members constituting guides for the cotton plants.

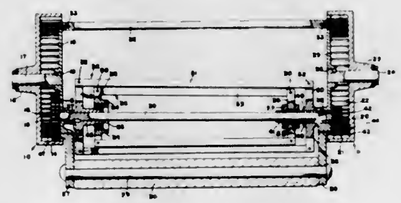
2,665,538
CORN HARVESTER
Norman F. Andrews, Ankeny, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application November 6, 1950, Serial No. 194,356
16 Claims. (Cl. 56—111)

1. In a corn harvester having fore and aft extending supporting structure and power-input means rotatable at a constant speed: snapping and husking mechanism, comprising a pair of parallel snapping rolls arranged for rotation at a fore part of the supporting structure and inclined upwardly and rearwardly from substantially transversely alined front ends to substantially transversely alined rear ends; a pair of upwardly and rearwardly inclined husking rolls respectively coaxial with the snapping rolls and having front ends respectively proximate to and rear ends respectively remote from the rear ends of the snapping rolls; means for journaling the two pairs of rolls to provide for rotation of the husking rolls relative to the snapping rolls; a rotatable driving member coaxial with one roll of one pair of rolls and having opposite end portions; means at one end portion of the driving



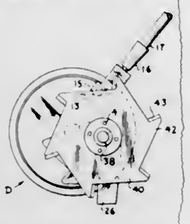
member for connection to the input means to effect rotation of the driving member at a predetermined constant speed; means at the other end portion of the driving member for direct connection to an end of one roll of one pair to drive said one roll at the speed of the driving member; an elongated drive element extending from the driven end of said one roll lengthwise as respects the rolls to a remote end of a roll in the other pair of rolls; a driving connection between the drive element and said driven end of said one roll; a second driving connection between the drive element and said remote end of said roll of the other pair of rolls; and speed-proportioning means in one of said drive connections for causing driving of said roll of the other pair of rolls at a speed different from the speed of the driving member.

2,665,539
ROTATING REEL TYPE LAWN MOWER
Harry P. Cawood, Topeka, Kans.
Application July 19, 1952, Serial No. 299,885
4 Claims. (Cl. 56—249)



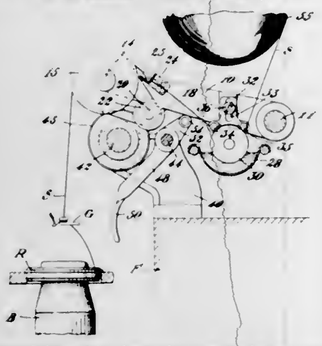
1. In a lawn mower, a pair of vertically disposed ground engaging drive wheels, a pair of longitudinally tapered cutting reels mounted on concentric axes between said pair of wheels, said reels being tapered in the same direction, gear means between said wheels and reels for rotating one reel relative to the other reel, and means for longitudinally adjusting one reel with respect to the other for altering the clearance between the cutting blades of one reel and the cutting blades of the other wheel.

2,665,540
LAWN EDGE TRIMMER
Andrew T. Dudley, Port Arthur, Tex.
Application May 31, 1950, Serial No. 165,341
1 Claim. (Cl. 56—256)



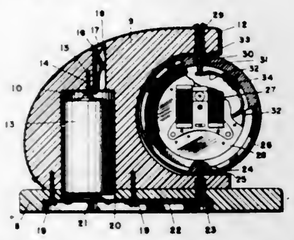
In a lawn trimmer including a frame, a drive wheel rotatably mounted on said frame, a drive shaft journalled in said frame, and gear mechanism operatively connecting said drive wheel to said drive shaft and including a one-way clutch, the improvement consisting of: a fixed cutter on said frame having three cutting elements with cutting edges angularly offset with respect to radii of said drive shaft and with the lowermost cutting element longer than the other two and extending below the lowermost periphery of said drive wheel, and a cutting wheel carried by said drive shaft and having six cutting elements the cutting edges of which are in alignment with radii of said wheel and which have a radial extent greater than the two shorter elements of said fixed cutter, the cutting elements of said fixed cutter being spaced apart so that only one of them is in effective engagement with the cutting element of the cutting wheel at any one time, each of the cutting elements on the cutting wheel having an extent whereby it also extends below the lowermost periphery of said drive wheel when it engages said lowermost fixed cutter.

2,665,541
MACHINE FOR MAKING CORD FROM TWISTED WEB MATERIAL
Gustaf E. Nordstrom, Gardner, Mass., assignor to American Fibre Corporation, Gardner, Mass., a corporation of Massachusetts
Application June 7, 1951, Serial No. 230,330
9 Claims. (Cl. 57—32)



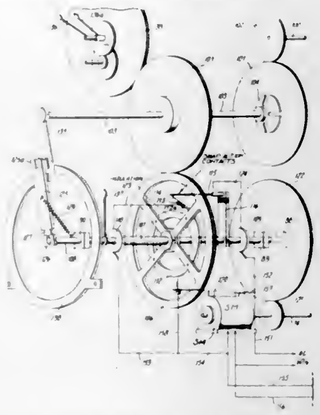
6. A machine for forming a twisted cord from a continuous length of strip material comprising a twisting frame having a yarn guide and spindle, an arm pivotally mounted on said frame, a die mounted on said arm between its pivotal connection and free end through which the strip material is drawn and crushed, a first roll mounted on said arm and having a plurality of peripheral grooves, said first roll being arranged to receive crushed strip material from the delivery end of said die, a second roll mounted on said arm in spaced relation to said first roll, said second roll having at least one peripheral groove in approximate alignment with the grooves of said first roll so that crushed strip material may pass from the peripheral groove of said first roll to that of the second roll, back to the second groove of the first roll and thereafter to said yarn guide, and means for driving one of said rolls.

2,665,542
DESK CLOCK
Charles W. Sheldon, Lancaster County, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
Application April 26, 1952, Serial No. 284,550
4 Claims. (Cl. 58—23)



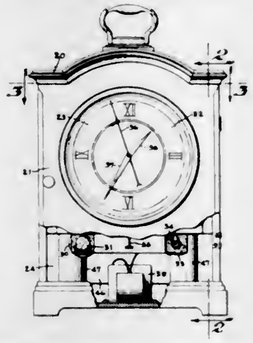
1. A desk clock, comprising a base, a vertical upright secured to said base, said vertical upright having a substantially semicircular cut at one end and formed with a cylindrical well adjacent the other end, a battery housed in said well, pins carried by said vertical upright, an electrically conducting clock casing pivotally mounted on said pins in said semicircular opening, electrical connectors between said battery and said pins, one of said pins being grounded to said casing, insulating means insulating the other of said pins from said casing, and a clock movement carried within said casing and connected to said pins.

2,665,543
ELECTROMECHANICAL CLOCK
Oscar H. Dicke, New Bremen, Ohio
Application June 29, 1949, Serial No. 101,932
10 Claims. (Cl. 58—34)



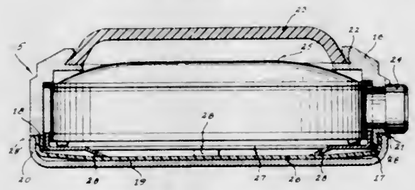
10. Time manifesting apparatus comprising, mechanical time measuring apparatus, a friction slip clutch, clock hands driven by said mechanical time measuring apparatus through the medium of said slip clutch, electrical time measuring apparatus including a synchronous motor, a source of alternating current of regulated frequency, contacts controlled respectively by said mechanical time measuring apparatus and said electrical time measuring apparatus and closed only when said mechanical time measuring apparatus and said electrical time measuring apparatus manifest the same time for initially energizing said synchronous motor from said source, holding contacts for maintaining a holding circuit for said motor closed until an alternating current cessation occurs, means controlled in accordance with the difference of the time integration measured by said mechanical and said electrical time measuring apparatuses for adjusting the rate of operation of said mechanical time measuring apparatus and acting relatively slowly so as to cause it to correctly manifest the passing of time as determined by the average frequency of said source applied to said synchronous motor, and means controlled by said electrical time measuring apparatus for periodically setting said clock hands as permitted by said slip clutch.

2,665,544
HOUR CHIMING CLOCK
Harry C. Rowe, Chicago, Ill., and Elmer H. Bladh, Cincinnati, Ohio, assignors to Nutone, Inc., Cincinnati, Ohio, a corporation of New York
Application March 7, 1950, Serial No. 148,168
7 Claims. (Cl. 58—38)



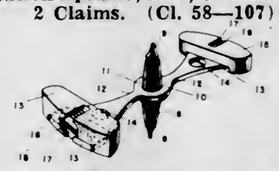
1. In a time indicating clock movement, an electrical apparatus driven by the clock movement to strike the hours and sound a chime sequence comprising, an hour counting switch driven by the clock movement consisting of a gear having two electrical conducting areas on one of its surfaces, a group of twelve contact fingers adapted to establish electrical contact in common with said electrical conducting surfaces whereby the fingers are interconnected with one another in increasing numbers corresponding to the hours, a plurality of electrically operated chimes, a power circuit having one side connected to said chimes in common, a chime energizing switch having a plurality of striking contacts arranged to be interconnected by the contact fingers of the hour counting switch, one of said contacts being connected to the opposite side of one of the said chimes to strike the hours, a rotary contactor in the energizing switch connected to the opposite side of the power circuit and adapted to engage the striking contacts to energize the said chime in accordance with the number of contacts interconnected by the hour counting switch and thereby to strike the hour, an electric motor connected to the rotary contactor for rotating the same with respect to the striking and chiming contacts, a cycle control switch consisting of a gear meshing with the clock movement and adapted to make one revolution each hour, the gear having a pair of contacts cooperating with a pair of stationary contactors, said contactors connected to the said electric motor and arranged to energize the motor at hour and half hour intervals, a plurality of chiming contacts in the said chime energizing switch connected individually to the opposite side of said electrically operated chime units to complete the circuit therethrough, the said rotary contactor being adapted to engage sequentially the chime contacts to energize the chimes individually prior to engagement with the striking contacts whereby a chime sequence is sounded in advance of the hour strokes.

2,665,545
WATERPROOF SNAPBACK WATCHCASE
Hyman Dinstman, New York, N. Y., assignor to I. D. Watch Case Co., Inc., New York, N. Y.
Application April 27, 1953, Serial No. 351,425
6 Claims. (Cl. 58—90)



1. A waterproof watch case comprising an annular body having an integral bezel at its upper edge and a back receiving lower edge portion, said body having on its outer side a ledge portion overhanging the back receiving lower edge portion, a back with an annular upturned flange frictionally seating on the back receiving lower edge portion of the body, a resilient sheet gasket extending across the body and frictionally secured between the annular flange of the back and the back receiving lower edge portion of the body to seal the back to the body, said gasket extending beneath the ledge portion of the body, said upturned flange on the back having an upper knife edge to bear against the gasket and the ledge portion of the body to sever the gasket at said knife edge.

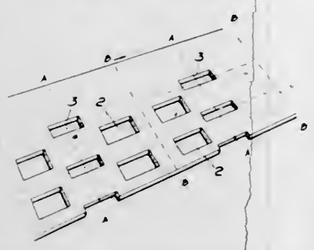
2,665,546
BALANCE BAR FOR WATCHES
Egbert Van Haaften, Lancaster Township, Lancaster County, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
Application April 29, 1952, Serial No. 284,854
2 Claims. (Cl. 58—107)



1. A balance assembly for watches, comprising a balance staff, a cross arm centrally secured to said balance staff, a pair of weights on opposite ends of the balance arm, means carried centrally of said weights and in line with said balance arm for poising said balance when the

arm is in a horizontal position, said balance arm being substantially reduced in width at points on opposite sides and adjacent the staff to permit the arm to be bent at an angle to its longitudinal axis to permit poising of the balance assembly when the arm is in a vertical position.

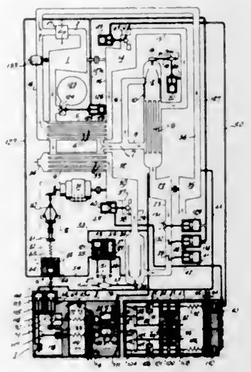
2,665,547
METHOD OF PRODUCING CHAIN-LINKS
Gustav B. Söderlund, Stockholm, Sweden
Application April 24, 1950, Serial No. 157,644
1 Claim. (Cl. 59—8)



In the method of manufacturing chain links of the kind having tongue and pin portions with essentially cylindrical contact surfaces, the steps consisting in rolling a metal strip to preferably rectangular cross-section so that the direction in which stresses will appear in the finished links coincide with the direction of rolling, punching a plurality of rows of spaced holes transversely and longitudinally of the strip and simultaneously punching a plurality of rows of spaced smaller holes transversely and longitudinally of the strip with one row of small holes transversely positioned between pairs of transverse rows of the larger holes and with one row of small holes longitudinally positioned between adjacent longitudinal rows of the larger holes, said smaller holes being offset from the larger holes in longitudinal and transverse directions, cutting the strip transversely centrally through the small holes to provide blocks containing a plurality of link blanks side by side and end to end with each having tongue and pin portions, reheating and press forging said blocks in order to shape a tongue and a pin portion at each blank, annealing and hardening the blocks and machining them to provide accurate contact surfaces at the tongue and pin portions and finally dividing the blocks into individual links along longitudinal lines passing centrally through said small holes and along transverse lines passing centrally between each of the rows of said pairs of rows.

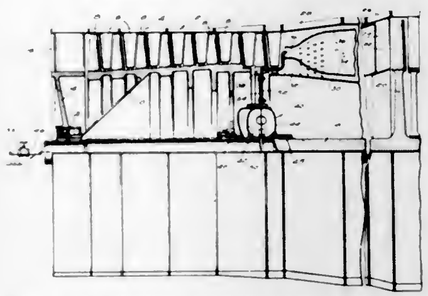
2,665,548
APPARATUS FOR CONTROLLING THE POWER OUTPUT OF GAS TURBINE PLANTS
Walter Traupel, Winterthur, Switzerland, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland, a corporation of Switzerland
Application June 24, 1950, Serial No. 170,148
Claims priority, application Switzerland June 30, 1949
14 Claims. (Cl. 60—39.15)

5. Apparatus for controlling the power output of a gas turbine plant, comprising a compressor for compressing the working medium of the plant, a first multi-stage gas turbine driving said compressor, a heater connected for medium flow with said compressor and heating the compressed medium, heat supply control means for said heater, a second multi-stage gas turbine mechanically independent of said first turbine and connected for medium flow with said heater for producing outside power by expanding the compressed and heated medium, a control impulse producer connected with said second turbine for producing control impulses in dependence on the load on said second turbine, a first control means connected with said producer for actuation by impulses produced thereby and connected with said heat supply control means for controlling the heat supply to said heater in



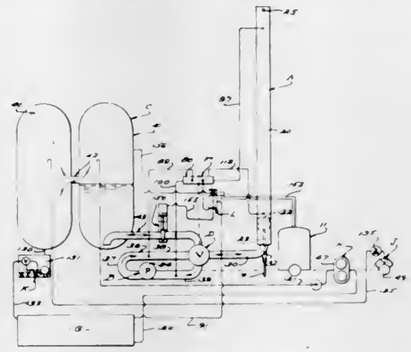
dependence on the pulses produced by said producer, a by-pass on at least one of said turbines for by-passing working medium around at least the first turbine stage, a medium flow control device in said by-pass, a second control means connected with and actuated by said producer and connected with said flow control device for controlling it in dependence on the pulses produced by said producer, and an impulse retarding device interposed between said producer and said second control means for delaying control of said flow control means relative to the control of said heat supply means.

2,665,549
COMPRESSOR DRIVE AND FUEL SUPPLY FOR GAS TURBINE POWER PLANTS
Philip P. Newcomb, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application November 2, 1949, Serial No. 125,064
9 Claims. (Cl. 60—39.28)



1. In a gas turbine power plant, a multistage compressor with the stages arranged in two independently rotating groups, a fluid coupling connecting one of said groups to the adjacent group, a turbine connected to said adjacent group for driving it, a combustion chamber through which gas from the compressor is delivered to the turbine, means for supplying fuel to said power plant, and a connection for directing the supplied fuel through said coupling as the coupling fluid to said combustion chamber.

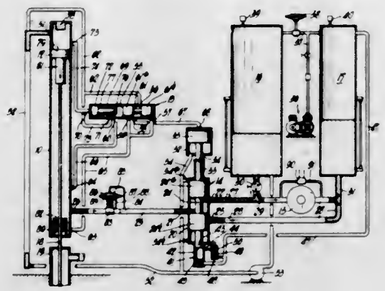
2,665,550
FLUID PRESSURE ACTUATED PUMPING UNIT
Herbert Harvey, Los Angeles, Calif., assignor, by mesne assignments, to United States Steel Corporation, a corporation of New Jersey
Application February 25, 1949, Serial No. 78,294
10 Claims. (Cl. 60—51)



1. A pumping unit comprising a main cylinder, a ram reciprocable in said cylinder, a motivating pump having an intake and a discharge, an accumulator tank adapted to contain hydraulic fluid and compressed air, a four-way main valve, piping connecting said main valve with said pump intake and discharge, with said tank and with said cylinder, said main valve having a position in which it establishes communication between the piping connected with said pump intake and said tank and between that connected with said pump discharge and said cylinder for an upstroke of said ram and a second position in which it establishes communication the opposite way for a downstroke, means for operating said main valve at the ends of the strokes to reverse the ram, a normally open shut-off valve in the piping connected with said tank, means for automatically closing said shut-off valve whenever said ram moves at a speed below a predetermined minimum and thereby preventing loss of compressed air and hydraulic fluid from said tank, and means for stopping said pump when said shut-off valve closes.

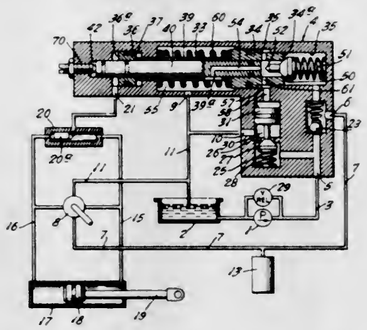
2,665,551
HYDRAULIC PUMPING UNIT
Roy L. Chenault, Seneca, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application December 20, 1950, Serial No. 201,786
6 Claims. (Cl. 60—51)

1. A hydraulic pumping unit comprising a lifting cylinder, a ram mounted for up and down movement in said cylinder and adapted to be connected to a sucker rod string, a positive displacement motivating pump having an inlet and a discharge, a main valve, piping connecting said inlet and discharge with said main valve and said main valve with the lower portion of said cylinder and adapted to contain hydraulic fluid, a pilot valve for shifting said main valve and thus alternately establishing communication between said pump discharge and said cylinder for admitting hydraulic fluid to the latter for raising said ram, and establishing communication between said cylinder and said pump inlet for allowing said ram to descend gravitationally at a faster rate than said pump raises it, a first counterbalance tank connected to said piping between said main valve and said pump inlet, a second counterbalance tank of smaller volume than said first tank connected to said piping between said pump discharge and said main valve, the volumes of said tanks being in substantially the same ratio



as the speed of the ram on its descent and its ascent said tanks being adapted to contain hydraulic fluid and compressed air, said first tank receiving hydraulic fluid from said cylinder and cushioning said ram as it descends and supercharging said pump as it raises the ram, said second tank receiving fluid from said pump and storing its energy as the ram descends and assisting said pump in raising the ram, and means controlling the rate at which fluid can flow into said first tank for controlling the rate of descent of said ram.

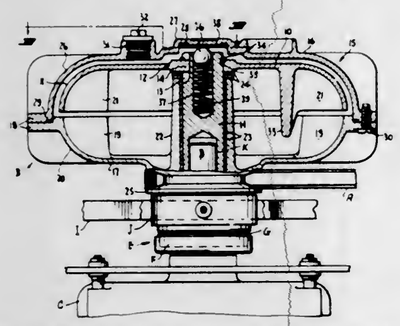
2,665,552
LOAD RESPONSIVE PRESSURE REGULATING VALVE
Clinton E. Deardorff, San Fernando, Calif., assignor to Bendix Aviation Corporation, North Hollywood, Calif., a corporation of Delaware
Application December 29, 1952, Serial No. 328,447
6 Claims. (Cl. 60—52)



1. In a hydraulic system, a pump line and a pump for delivering fluid thereto, a pressure line and a check valve for delivering fluid from the pump line to the pressure line, a load device and a load line connected thereto, a return line for returning fluid to said pump, a selector valve for selectively connecting said load line to said pressure line or to said return line, and an unloading valve comprising: a casing defining a pump pas-

sage connected to said pump line, a pressure passage connected to said pressure line, a return passage connected to said return line, and a load passage connected to said load line; piston means reciprocable in said casing and having a first face exposed to said pressure passage and urged in one direction by pressure therein; spring means urging said piston means in the other direction; means controlled by said piston means for connecting said pump passage to said return passage and thereby unloading said pump in response to predetermined movement of said piston means in said one direction by pressure acting on said first face against the force of said spring means; said piston means having a second face opposed to said first face and exposed to said load passage whereby the force of said spring means is supplemented by a force proportional to the pressure in said load line.

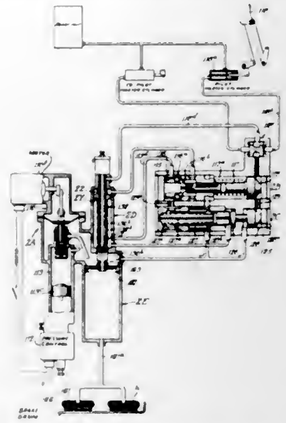
2,665,553
ROTARY, TURBINE-TYPE HYDRAULIC COUPLING
Willis R. Foster and Harry K. Wethe, Webster City, Iowa, assignors to Solar Corporation, Milwaukee, Wis., a corporation of Delaware
Application June 7, 1952, Serial No. 292,336
3 Claims. (Cl. 60—54)



1. In a fluid drive coupling for mounting on a rotating drive shaft, an impeller secured on the shaft, a fluid containing housing enclosing the impeller and rotatable with reference to said shaft and having limited end play with reference to the shaft and impeller, said drive shaft having an axial bore with an end opening toward the adjacent center of the housing, a ball in the open end of the bore and a spring in the bore biasing the ball toward the center of the housing, and a thrust disk between the ball and the housing whereby the spring bias on the ball will take up end play between the impeller and housing.

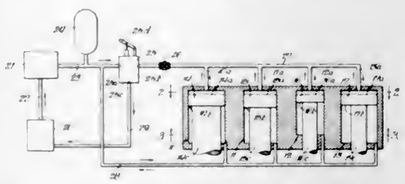
2,665,554
HYDRAULIC POWER CONTROL SYSTEM
Edward A. Rockwell, Shaker Heights, Ohio, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Original application May 6, 1944, Serial No. 534,503, now Patent No. 2,443,642, dated June 22, 1948. Divided and this application June 19, 1948, Serial No. 34,113
22 Claims. (Cl. 60—54.5)

6. A motor unit including reciprocable pressure-fluid responsive motive means having opposed differential pressure responsive areas, an enclosing housing including a cylinder for reception of said motive means, a manually operable control valve means including alternately closed inlet and exhaust valves, said means being reactive coordinately to the extent of the operation thereof by the fluid pressure delivered, constructed to deliver pressure fluid concurrently to both of said



differential areas and to control the release of said pressure from the lesser one of said differential areas, and pressure responsive means connected to said delivery of pressure to automatically operate said valve means.

2,665,555
HYDRAULIC MECHANISM
Gunnar R. C. Martinsson, Chicago, Ill.
Application July 15, 1949, Serial No. 104,851
3 Claims. (Cl. 60—97)



1. In hydraulic mechanism, a plurality of pistons and cylinders, each piston having forward and reverse faces of different areas, the ratio of said areas for each piston being different from said ratio for each of the other pistons, means for constantly supplying liquid under a uniform pressure to the reverse faces of said pistons, and means for intermittently supplying liquid to the forward faces of said pistons and building up the pressure thereof to equal said uniform pressure.

2,665,556
INSULATED BAYONET TUBE VAPORIZER
Philip S. Otten, New Rochelle, N. Y., assignor to The Griscom Russell Company, New York, N. Y., a corporation of Delaware
Application February 3, 1951, Serial No. 209,227
1 Claim. (Cl. 62—1)

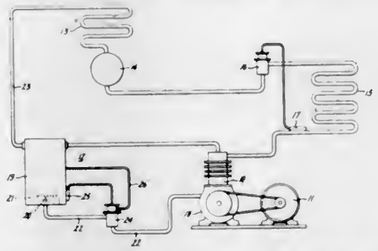
In a liquefied gas vaporizer, a heat exchange element consisting of an outer tube closed at the end, an inner tube projecting into said outer tube through its open end, said inner tube consisting of inner and outer tube sections and a separator between said tube sections comprising a wire of a diameter equal to the space between

said tube sections, said wire being wound helically around the inner tube section, and a closure



for the space between the tube section at one end.

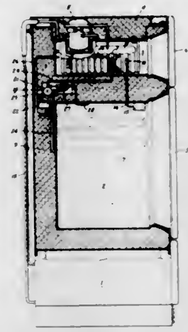
2,665,557
LUBRICANT SEPARATING SYSTEM FOR REFRIGERATING MACHINES
Wayne E. Dodson, Caldwell, N. J., assignor to General Electric Company, a corporation of New York
Application February 3, 1951, Serial No. 209,273
7 Claims. (Cl. 62—3)



1. A refrigerating system comprising a compressor and a condenser and an evaporator connected in a closed refrigerant circuit, a sump for said compressor arranged to hold a body of lubricating oil, means including a chamber in said circuit between the discharge side of said compressor and said condenser for separating oil from the compressed refrigerant flowing to said condenser, a conduit between said chamber and said sump for returning oil to said sump, means for minimizing the flow of gas through said conduit to said sump, a valve in said conduit for controlling the flow of liquid therethrough, and means responsive to a predetermined low temperature of the liquid on the inlet side of said valve for preventing the flow of liquid from said chamber through said conduit.

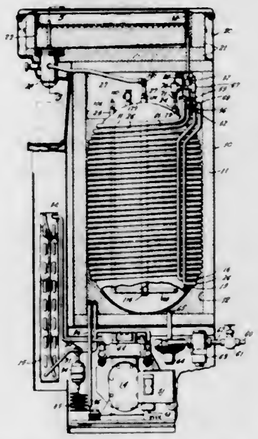
2,665,558
TWO-TEMPERATURE REFRIGERATION SYSTEM
Marcus E. Fiene, deceased, late of Scotia, N. Y., by Clara E. Fiene, administratrix, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application August 23, 1946, Serial No. 692,438
15 Claims. (Cl. 62—3)

1. Refrigerating apparatus comprising a primary evaporator, a secondary refrigerating system including an evaporating portion and a condensing portion, said condensing portion being in heat exchange relation with said primary evaporator, means providing a control chamber in said secondary refrigerating system between said condensing portion and said evaporating portion, a condensate reservoir in communica-



tion with said secondary refrigerating system, and a movable baffle in said control chamber for selectively directing condensate from said condensing portion to said evaporating portion or to said condensate reservoir.

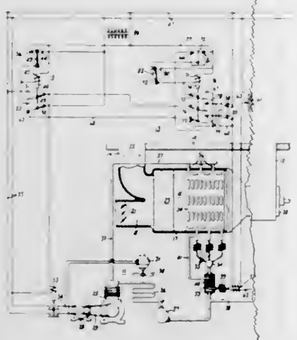
2,665,559
LIQUID TREATING APPARATUS
Fred H. Dexter, Monrovia, Calif.
Application July 14, 1950, Serial No. 173,727
7 Claims. (Cl. 62—4)



7. A carbonated drink dispenser comprising an insulated housing, a tank in said housing for containing carbonated water under pressure, restricted means for supplying pre-cooled water at a regulated pressure into said tank, said water supply means comprising a loop of conduit spirally wound in intimate contact with the surface of said tank, a pressure responsive flow control valve and a restricting nozzle disposed inside said tank, means for pre-cooling said water and refrigerating the contents of said tank, said last named means comprising a refrigerating system having an expansion coil in intimate contact with said tank and alternately wound between the spiral loops of the water system and including a pressure responsive switch for actuating said refrigerating system, temperature responsive bulb means responsive to both ends of each of the water loop and expansion coil loop for con-

trolling the water flow control valve and the pressure responsive switch, means for carbonating the water in said tank comprising a source of carbon dioxide under pressure, and a conduit adapted to communicate said carbon dioxide to the bottom of said tank and terminating in a horizontal loop having a plurality of discharge ports therein, and carbonated water discharge means comprising a conduit extending adjacent the bottom of said tank and communicating with a discharge valve, said last mentioned conduit having a capillary tube communicating between the interior of said last mentioned conduit and the upper region of said tank interior, whereby excess gases may be purged upon opening said valve, and a check valve adjacent the bottom of said conduit whereby water can not run back into said tank upon closing said valve.

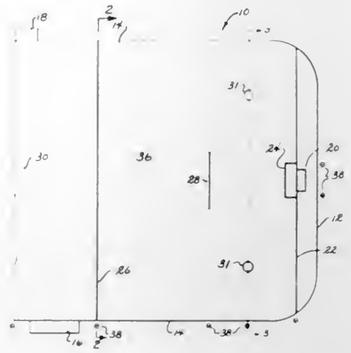
2,665,560
FLUID COOLING SYSTEM
Albert B. Hubbard, Caldwell, N. J., assignor to General Electric Company, a corporation of New York
Application September 8, 1951, Serial No. 245,711
5 Claims. (Cl. 62—4)



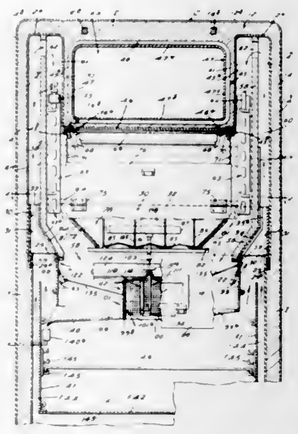
1. A fluid cooling system comprising a refrigerating machine having a compressor and a condenser and an evaporator connected in a closed refrigerant circuit, means for circulating fluid to be cooled over said evaporator, a first restrictor tube for determining the rate of flow of liquid refrigerant from said condenser to said evaporator, and means arranged to control the temperature of the liquid refrigerant flowing to said tube from said condenser for varying the refrigerating capacity of said evaporator, said last-mentioned means comprising a by-pass around said tube between said condenser and said evaporator and including a second restrictor tube and a liquid refrigerant expanding portion, said expanding portion being arranged in heat exchange with the liquid refrigerant flowing to said first tube, said control means further including means for adjusting the rate of flow of refrigerant through said by-pass.

2,665,561
ICE-SKATING RINK
Reuben J. Yocum, Omaha, Nebr.
Application July 11, 1949, Serial No. 104,018
13 Claims. (Cl. 62—12)

1. An ice skating rink comprising, a skating surface, refrigerating means for said skating surface, a source of light adjacent the boundary of said surface and strips of light conducting material positioned beneath and extending transversely of said skating surface to convey light from said source to selected areas of said rink.

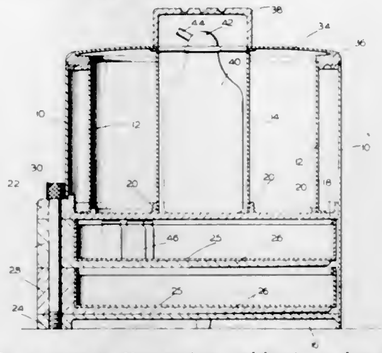


2,665,562
REFRIGERATOR CONSTRUCTION HAVING AIR AND WATER VAPOR CIRCULATING MEANS
Arthur J. Pedigo, Richmond, Va.
Application May 28, 1951, Serial No. 228,680
17 Claims. (Cl. 62—43)



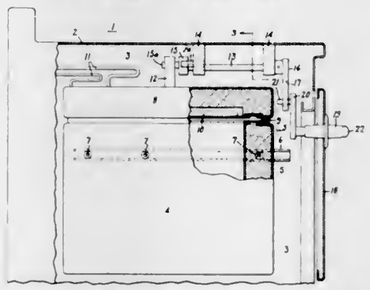
1. In a refrigerator construction of the character described, a cabinet, means therein providing an ice compartment, said compartment having foraminous side walls spaced from side walls of the cabinet, a chamber unit below said compartment, said unit having a bottom and side walls, the chamber unit side walls being directed upwardly in a plane passing between the foraminous walls and the cabinet side walls, a baffle wall extending from each of the unit side walls to the top of the cabinet providing inner and outer flues, said inner and outer flues being in communication at the top of the cabinet, a freezing coil in each of the inner flues, means for establishing air communication between the chamber unit and the outer flues, an electrically operated water spray means within the chamber unit, and means for operating said air communication establishing means simultaneously with the operation of the water spray means.

2,665,563
REFRIGERATED CREAM DISPENSING CABINET
Ronald W. Walker, Amarillo, Tex.
Application April 19, 1948, Serial No. 21,956
2 Claims. (Cl. 62—77)



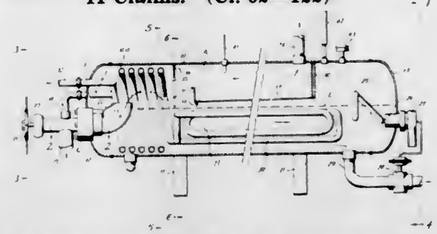
1. In a cream dispensing cabinet an insulated jacket, a refrigerant containing chamber, a container chamber partially surrounded by the said refrigerant containing chamber, a plurality of hingedly supported circular trays below the said refrigerant and container chambers, and a cover mounted above said chambers, a second cover hinged to the first mentioned cover and positioned above and adapted to close the said container chamber.

2,665,564
UNDER COUNTER REFRIGERATOR
Alfred G. Janos and Julius B. Horvay, Erie, Pa., assignors to General Electric Company, a corporation of New York
Application August 31, 1951, Serial No. 244,572
7 Claims. (Cl. 62—89)



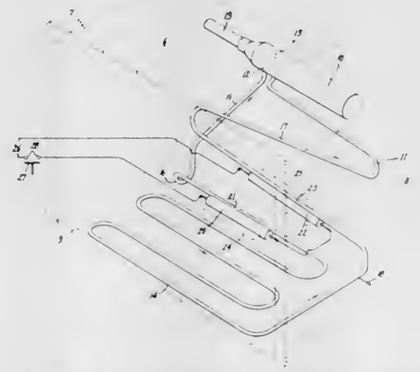
5. A cabinet for refrigerators and the like comprising an outer wall defining an inner space, at least one drawer movably mounted within said inner space and adapted to be moved between a first position within said inner space and a second position projecting from said inner space, said drawer including heat insulating side and bottom walls defining a storage compartment, a heat insulating lid normally maintained in sealing engagement with said drawer when said drawer is in said first position, a cooling element mounted in said lid for extracting heat from said drawer, and means for moving said lid out of sealing engagement with said drawer to afford movement of said drawer from said first position to said second position, said means including a rotatable operating shaft, an operating lever movable with said drawer, and a disengageable mechanical linkage between said operating shaft and said operating lever.

2,665,565
SEPARATOR
Asbury S. Parks, Houston, Tex.
Application July 2, 1951, Serial No. 234,791
11 Claims. (Cl. 62—122)



1. A separator including, a horizontal vessel having means for creating a cold zone in its upper portion and also having means for creating a warm zone in its lower portion, a well stream inlet at one end of the vessel, a gas outlet at the opposite end of the vessel and extending from the cold zone whereby the well stream is caused to travel longitudinally of the vessel, means in advance of the inlet through which the well stream is directed for cooling the well stream to condense liquids and form hydrates which upon flowing longitudinally through the vessel precipitate downwardly into the warm zone, and means maintaining a predetermined liquid level in the warm zone, said well stream inlet having a deflector means associated therewith which is disposed at least partially within the liquid in the warm zone to prevent the accumulation of hydrates at said inlet.

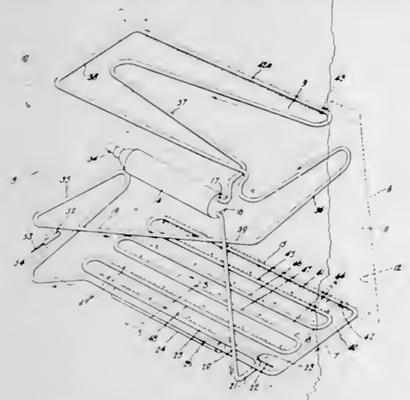
2,665,566
EVAPORATOR DEFROSTING ARRANGEMENT
Charles S. Grimshaw, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application December 12, 1951, Serial No. 261,165
13 Claims. (Cl. 62—126)



1. A flooded evaporator comprising a header and a single continuous length of tubing connected at both ends to said header and providing a series circuit for refrigerant, said tubing including a first portion and a second portion in series circuit with said first portion, one end of said tubing being connected to said header below the level of liquid refrigerant therein for supplying liquid refrigerant to said first portion, the other end of said tubing being connected to said header

above the level of liquid refrigerant therein for conducting vaporized refrigerant from said second portion to said header, and means for supplying heat to said evaporator at two sections of said tubing spaced along the series circuit thereof for defrosting said evaporator, heat supplied to at least one of said sections being also effective for inducing circulation of refrigerant through said continuous tubing.

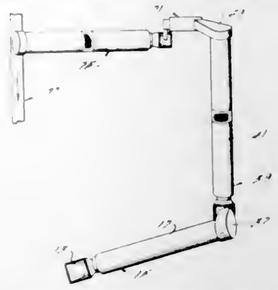
2,665,567
EVAPORATOR DEFROSTING ARRANGEMENT
Ralph E. King and Harley H. Bixler, Erie, Pa., assignors to General Electric Company, a corporation of New York
Application December 12, 1951, Serial No. 261,174
16 Claims. (Cl. 62—126)



1. A flooded recirculating evaporator comprising a header and continuous tubing connected at both ends to said header, said tubing including a first portion and a second portion in series with said first portion, one end of said tubing being connected to said header below the level of liquid refrigerant therein for supplying liquid refrigerant to said first portion, the other end of said tubing being connected to said header above the level of liquid refrigerant therein for conducting vaporized refrigerant from said second portion to said header, and a single heater disposed in heat exchange relationship with a section of said first portion of said tubing near the beginning thereof, said heater being further disposed in heat exchange relationship with a second section of said tubing near the beginning of said second portion of said tubing, whereby vaporization of liquid refrigerant and defrosting of said evaporator is effected.

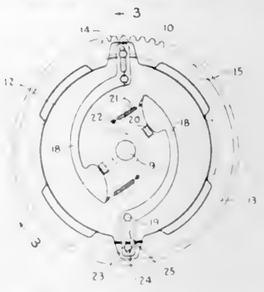
2,665,568
METHOD OF AND APPARATUS FOR COOLING AND DRYING RUBBER
Robert R. Meyer and Harold E. Lietaert, Monroe, Mich., assignors to Monroe Auto Equipment Company, Monroe, Mich., a corporation
Application October 7, 1949, Serial No. 120,192
3 Claims. (Cl. 62—178)

3. The method of handling, cooling and drying hot articles of the type that tend to adhere together when hot, including the steps of partially cooling the articles in a liquid solution so as to coat said articles with at least a film of liquid, of removing excess liquid by simultaneously rotatably tumbling said articles to partially cool the same, and conveying the articles along a desired path of travel, removing the excess liquid from contact with the articles, and of circulating gas cooler than the articles over and around the said articles during said tumbling and conveying operation and after the excess liquid has



been removed from said articles and said articles are partially cool so as to evaporate the remaining liquid from the articles and simultaneously cool and dry the same to a point where they will not tend to readily adhere together.

2,665,569
ADJUSTABLE GEAR
Arthur Ens, Hepburn, Saskatchewan, Canada
Application March 27, 1952, Serial No. 278,821
4 Claims. (Cl. 64—25)

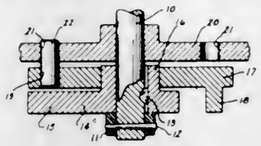


1. An automatic, speed-responsive, shaft-advancing gear comprising the combination with a rotatable shaft of a disk secured thereon, an interiorly channelled gear ring concentric with and straddling said disk and rotatable with respect thereto, and normally spring-retracted centrifugal governor-type arms each pivoted intermediate its ends on said disk near the periphery thereof and having one end with an elongated slot therein extending radially beyond the circumference of the disk and connected with said gear ring by a bolt passing through said slot; whereby on the hinging of said centrifugal governor-type arms in response to the speed of rotation of said shaft said gear ring is caused to move rotarily with respect to said shaft carried disk.

2,665,570
CONVEYER DRIVE SHEAR PIN ASSEMBLY
Gordon A. Ream, Dearborn, Mich.
Application November 8, 1951, Serial No. 255,492
3 Claims. (Cl. 64—28)

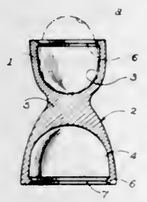
1. A device of the character described comprising a shaft, a circular driving element keyed to said shaft and having inwardly extending hub portion surrounding said shaft, a circular carrier plate revolubly mounted upon said hub, a sprocket mounted upon said shaft inwardly of

said plate, a radially extending lug affixed to said driving element, an outwardly extending lug affixed to said plate adjacent the periphery thereof, said lugs adapted to engage and drive



with a lost motion of slightly less than one complete revolution of said driving element, and a shear pin interconnecting said sprocket and said plate.

2,665,571
EGG HOLDER
Harold Nelson Lochead, Ottawa, Ontario, Canada
Application August 3, 1950, Serial No. 177,382
1 Claim. (Cl. 65—22)



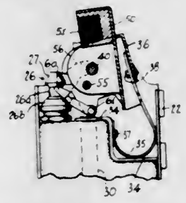
As an article of manufacture, a double-ended egg holder capable of securely retaining any standard commercial size of egg comprising a body of generally elongated form, circular in cross-section and of varying diameter, being narrowed and solid at the waist and composed of heat-insulating stretchable rubber-like material with a smooth outer surface; a deep egg-receiving pocket in each end; and an unbroken and continuous interior marginal flange tapered on both upper and lower sides to a sharp and especially soft resilient inner edge in the mouth of each pocket whereby the inserting and removing of an egg is facilitated; one of said pockets being smaller than the other and stretchable to a size at least equal to the normal, unstretched size of the larger one, the normal unstretched size of said smaller pocket being substantially equal to more than the larger lower half of a standard "pullet" egg and the larger of said pockets being stretchable to the size of more than the lower larger half of a standard "extra large" egg, whereby the flanged edge of either pocket may firmly yet gently and securely grip an inserted egg at a point above the maximum diameter of the egg's larger end.

2,665,572
PYROPHORIC LIGHTER
Milton M. Spitalny, Maplewood, N. J.
Application November 6, 1950, Serial No. 194,241
1 Claim. (Cl. 67—7.1)



A pyrophoric lighter of the character described, having a casing, a snuffing bar mounted for pivotal movement about a fixed pivot, a thumb-piece which is mounted for slidable movement on a substantially straight line toward and away from said fixed pivot, said snuffing bar being pivotally connected to said thumb-piece along an axial line which is parallel to and spaced from said fixed pivot, said thumb-piece being provided with an arcuate slot which accommodates said fixed pivot and which allows the thumb-piece to be moved toward and away from said fixed pivot, whereby the snuffing bar is caused to swing in one direction upon said fixed pivot when the thumb-piece is moved toward said fixed pivot and whereby the snuffing bar is caused to swing in the opposite direction upon said fixed pivot when the thumb-piece is moved away from said fixed pivot, a sparking wheel rotatably mounted on said fixed pivot, ratchet teeth on one side of said sparking wheel, and a pawl connected to said snuffing bar, said pawl being positioned for engagement with said ratchet teeth to cause said sparking wheel to turn in one direction when the snuffing bar swings in one direction on said fixed pivot, said pawl being adapted to slip across said ratchet teeth when the snuffing bar swings in the opposite direction on said fixed pivot, said casing having a well extending vertically downwardly therein from the top of said casing, said well having a front wall, a rear wall and a bottom wall, and an open top, said thumb-piece having two side walls, a top wall and a rear wall, and overlying the top opening of the well to constitute a cover therefor, a first pin extending rearwardly from said front wall near the top thereof, and a second pin extending forwardly from the rear wall of said thumb-piece near the bottom thereof, a U-shaped leaf spring having its bight lying in said well against the bottom thereof, said leaf spring having a hole punched near the end of each arm, said first pin extending through the hole in one of the arms to anchor the U-shaped spring in the well and said second pin extending into the hole of the other end of the leaf spring to maintain the thumb-piece and the case in assembled relation.

2,665,573
LIGHTER USING GASEOUS FUEL
Milton M. Spitalny, Maplewood, N. J.
Application November 6, 1950, Serial No. 194,242
1 Claim. (Cl. 67—7.1)



In a cigarette and cigar lighter of the character described, a casing, a fuel tank in said casing, a valve on said fuel tank near the front thereof, said valve having a nozzle which lifts to open the valve and lowers to close the valve, a lifting arm which engages the nozzle and a thumb-piece which is pivotally connected to said lifting arm, said thumb-piece being movably mounted in said casing for forward movement relative to said valve, a conical shoulder on the valve below the valve nozzle on which the lifting arm rides and which cams the lifting arm upwardly, when the thumb-piece pushes it forwardly, to open the valve by raising the valve nozzle, a spring-urged flint

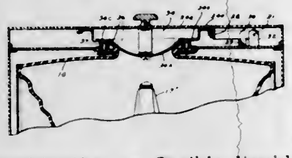
situated in the casing adjacent the valve nozzle, a sparking wheel rotatably mounted in said casing in abrasive engagement with said flint, and a pawl and ratchet mechanism between the thumb-piece and said sparking wheel to cause said sparking wheel to turn against the flint when the thumb-piece is moved forwardly.

2,665,574

COVER SEAL FOR WASHING MACHINES

Henry J. Rand, Bratenahl, Ohio, assignor to H. J. Rand Washing Machine Corp., New York, N. Y., a corporation of Delaware

Application January 31, 1948, Serial No. 5,623
10 Claims. (Cl. 68—21)



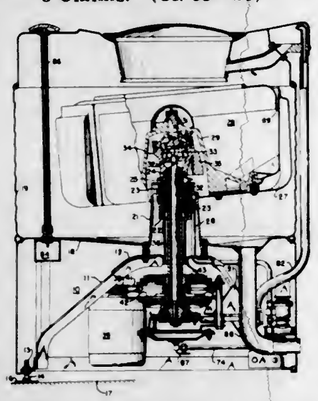
5. In combination, a flexible liquid and air-tight bag within which laundry is processed, there being an opening through the top of said bag through which laundry may pass, a cover for said opening, means for creating a partial vacuum within the bag to collapse said bag upon the laundry, said cover having a bottom contact surface of greater diameter than said opening, sealing means between the top of said bag and said surface comprising a flexible sealing member extending around the perimeter of said opening, said sealing member including a free and unrestricted edge, said edge being deformable and disposed in a direction angularly with respect to the horizontal and extending between said surface and said bag, said sealing means including said edge contacting said surface in sealing relationship responsive to a partial vacuum within the bag.

2,665,575

DRIVE MECHANISM FOR WASHING MACHINES AND THE LIKE

Gerald I. Cockerill, Cleveland Heights, and William F. Sindelar, Cleveland, Ohio, assignors to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application December 8, 1948, Serial No. 64,108
8 Claims. (Cl. 68—23)



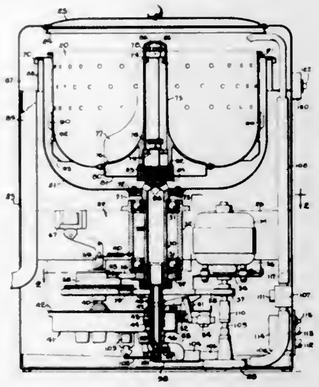
1. In a washing machine of the spin-drier type, a supporting frame, a drive mechanism comprising a pair of coaxial shafts rotatable in the same direction, a driven pulley mounted coaxially of the shafts and freely rotatable relative thereto, a pair of clutch elements mounted coaxially of the shafts with each fixed to a different shaft and engageable with the pulley, non-rotatable brake means mounted on the frame, means for selectively engaging one clutch element with the pulley and the other clutch element with the brake means whereby either shaft may be rotated while the other shaft is braked against rotation, a clothes container, a stub shaft connected to the clothes container, a universal joint connecting the stub shaft to one of said coaxial shafts, and a bearing engaging the stub shaft and mounted in the other coaxial shaft with the bearing axis at a slight fixed angle to the axis of said other shaft whereby when the said one shaft is held against rotation and the said other shaft is rotated the stub shaft axis will be caused to travel in a conical path thereby imparting a wobbling action to the container.

2,665,576

DOMESTIC LAUNDERING MACHINE

Berthold R. Thiele, Ripon, Wis., assignor to Speed Queen Corporation, Ripon, Wis., a corporation of Delaware

Application March 24, 1949, Serial No. 83,252
10 Claims. (Cl. 68—23)



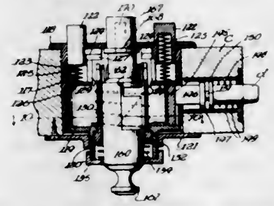
1. In a laundering machine of the class described, the combination of a tub-shaped outer receptacle having the open end thereof facing upwardly, mounting means rotatably supporting said receptacle for rotation about a substantially vertical axis, rotary driving means interconnected with said receptacle, a tub-shaped inner receptacle rotatably nested within said outer receptacle in generally coaxial relation thereto, a hollow first pedestal extending upwardly from the bottom of said inner receptacle in generally coaxial relation to said outer receptacle, a second pedestal secured to the bottom of said first receptacle and extending upwardly through said first pedestal, said inner receptacle being shiftable under the influence of gravity between a raised position and a lowered position, lifting means associated with said inner receptacle for shifting the latter to said raised position as an incident to the filling of said outer receptacle with fluid, first clutching means on said second pedestal, and second coacting clutching means on said first pedestal axially positioned thereon to clear said first clutching means when said inner receptacle is in lowered position and to have clutching engagement with said first clutching means when said inner receptacle is in raised position.

2,665,577

STEP-BY-STEP OPERATED COMBINATION LOCK

Albert Sanowskis, Chicago, Ill.

Application March 26, 1948, Serial No. 17,230
5 Claims. (Cl. 70—133)



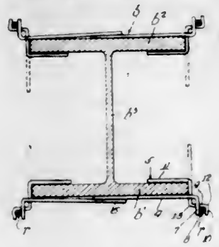
3. A combination lock comprising: an enclosing case, a series of selectively operable keys, each including a stem axially slidable in the case and a wedge element projecting transversly from the stem, the case being provided with slots through which the wedge elements extend with ends projecting from the slots in the case, a releasable locking element, and a rack for controlling the release of the locking element, means for shifting the rack step-by-step and releasing the locking element by the operation of the keys in a predetermined sequence and provided with slots and teeth between the slots engageable by the transversely projecting ends of the wedge elements on the stems.

2,665,578

WIRE CLIP FOR HOLDING IN PLACE FURRING SUPPORTING RODS

Bror Hillberg, Chicago, Ill., assignor to Superior Concrete Accessories, Inc., Chicago, Ill., a corporation of Illinois

Application February 5, 1951, Serial No. 209,419
2 Claims. (Cl. 72—109)



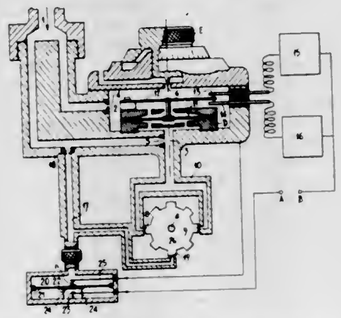
1. As a new article of manufacture, a unitary clip adapted to be applied to one of the flanges of an I-beam or like structural element and further adapted with spaced apart similar clips to hold outwards of, and in parallel relation with, the outer corners of the one flange of the I-beam a pair of spaced apart furring supporting rods, said clip comprising an elongated main member formed of wire, adapted to fit against, and extend transversely across, the outer surface of said one flange and having the ends thereof projecting beyond the side edges of said one flange, said ends of the main member being bent outwards at right angles and forming the inner side pieces for a pair of outwardly facing rod-receiving sockets, said clip also comprising a pair of separately formed Z-shaped end members formed of wire, located adjacent the ends of the main member and consisting of intermediate parts, outwardly extending end parts and inwardly extending end parts, the intermediate parts of the end members extending in substantially parallel relation with the portions of the main member that are immediately inwards of the outwardly bent ends of said main member, said intermediate parts of the end members having their central portions extending across, and welded to, the inner portions of the outwardly bent ends of the main member, and also having their outer end portions arranged to form the intermediate pieces for the rod-receiving sockets, the outwardly extending end parts of the end members extending outwards from, and being connected by right angle bends to, the outer extremities of said intermediate parts and forming the outer side pieces for said sockets, the inwardly extending end parts of the end members being connected by right angle bends to the inner extremities of the intermediate parts of the end members, said inwardly extending end parts having the inner extremities thereof extending across, and welded to, the portions of the main member that are directly inwards of said outwardly bent ends, and also having the remaining portions thereof free and adapted to fit against, and be bent around, the side edges and inner surfaces of said one flange in order to hold the clip in place.

2,665,579

PNEUMATIC CALIBRATING APPARATUS

André Louis Aimé Fortier, Clamart, France, assignor to Etavex, S. A., Geneva, Switzerland, a corporation of Switzerland

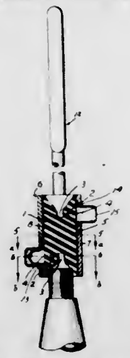
Application February 14, 1950, Serial No. 144,077
Claims priority, application Switzerland February 22, 1949
2 Claims. (Cl. 73—37.5)



1. Pneumatic measuring apparatus for comparing the dimensions of an object against a fixed standard, comprising a body member, means providing two primary pneumatic ducts in said member; means for connecting said ducts to a common source of compressed air; one of said ducts, regarded as the measuring duct, being provided with at least one fixed outlet orifice adjacent to which the object to be measured is normally placed; the other duct, regarded as the adjusting duct, having an adjustable outlet orifice; each of said ducts being provided with a calibrated inlet orifice; a pneumatic differential pressure indicating device having a pair of chambers separated by a flexible pressure sensitive diaphragm; each chamber being pneumatically connected to one of the ducts at a point between the inlet orifice and the outlet orifice of the duct; said pressure indicating device including an electrical signaling circuit containing an electrical switch operated to its open and closed positions by the movement of said diaphragm; means providing a third pneumatic duct, regarded as a control duct, connected to said common source of compressed air and having a

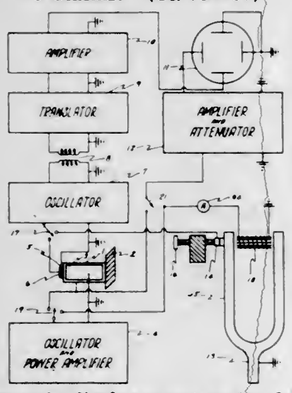
fixed outlet orifice for disposition adjacent the object to be measured; whereby pressure variations in the control and measuring ducts will occur simultaneously; said electrical signaling system including an electrical control switch having movable electrical contact elements; means pneumatically connected to said control duct and responsive to pneumatic pressure changes therein for moving said elements in and out of contact relation.

2,665,580
VALVE LEAK DETECTOR
Dwight Clawson, Clatskanie, Oreg.
Application October 30, 1952, Serial No. 317,720
5 Claims. (Cl. 73—48)



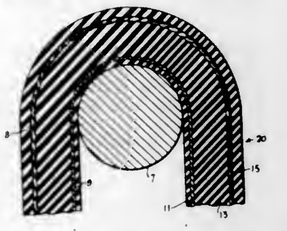
1. A valve leak detector, comprising an elongated rubber body portion formed on one end with an angular shaped duct terminating at one end in an air inlet at the end of the resilient body portion to fit over a valve stem, and terminating at its opposite end at the side of the resilient body portion to provide an air exit, a thin sheet of rubber extending over the exit end of the duct at the outer surface of the resilient body portion, and a clamp over the resilient body portion and the thin rubber sheet the clamp having an opening in alignment with the air exit, and a handle extending from the clamp, whereby when the detector is fitted over a valve stem and air is leaking from the valve, the escaping air will blow the thin rubber through the opening in the clamp and form a blister.

2,665,581
DYNAMIC DISPLACEMENT METER
Clare H. Kean, Houston, Tex.
Application January 13, 1944, Serial No. 518,157
9 Claims. (Cl. 73—67)



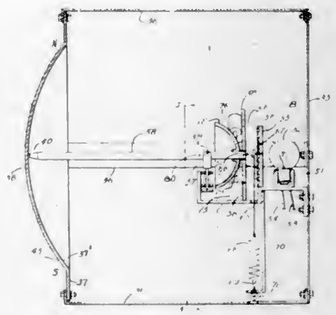
1. A dynamic displacement meter for measuring displacements of a body vibrating in response to the application of electrical force thereto comprising: a frequency-modulated oscillator; a condenser connected in the frequency determining circuit of said oscillator; one plate of said condenser being fixed and the other plate being fixedly mounted on said body; a set of plates pressing against said body, means to apply vibration force to said plates, and means for indicating the variations in frequency of said oscillator when said other plate and said body vibrate.

2,665,582
METHOD OF TESTING CORD FABRIC
Robert R. Armstrong, Akron, and Burton M. Wolf, Wadsworth, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application January 21, 1950, Serial No. 139,938
4 Claims. (Cl. 73—159)



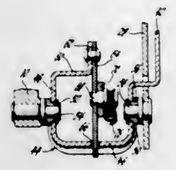
1. The method of testing tire cord fabric which comprises embedding a layer of cord elements of said fabric free of axial tension and a layer of inextensible parallel wires in spaced planes in an elongated body of rubber-like material to form a test sample, repetitiously passing a reach of said sample into and out of an arcuate path with the wire layer outermost while maintaining the radial inner surface of the arcuate portion of the test sample at a fixed radius, whereby the cord test elements are maintained under compression in said arcuate path free of longitudinal tension in the remainder of said sample beyond said arcuate path.

2,665,583
WIND SPEED AND DIRECTION INDICATOR
Philip G. Anjanos, Beloit, Wis.
Application July 12, 1951, Serial No. 236,430
3 Claims. (Cl. 73—189)



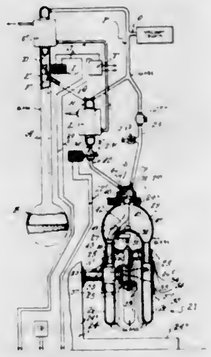
1. In a wind speed and direction indicator of the character described comprising in combination, separate transmitting and receiving units, said transmitting unit having a horizontally positioned plate with current resisting characteristics and having a concave surface on its upper side, a pendulum universally pivoted a distance above said concave surface and on the horizontal center thereof, said pendulum having means to yieldingly hold it in a vertical position, a brush on the lower end of said pendulum adapted to yieldingly contact said concave surface, said pendulum being extended a distance above said universal pivot and having mounted on its upper end a wind engaging means whereby the position of the brush on said concave surface will correspond to the velocity and direction of the wind, said receiving unit having a translucent plate with a circular concave surface on one side, an arm universally pivoted near one end and on a radius with said translucent plate and at the center of the curvature thereof with means to yieldingly hold the arm in a central position relative to the concave translucent surface, one end of said arm being adjacent said translucent concave surface and having means for spot lighting the concave surface, a bell shaped iron member secured to said rod adjacent said universal pivot, a number of coils having cores which are equally spaced around and adjacent the outer surface of said bell shaped iron member, wires leading from one side of said coils to an equal number of circumferentially spaced connections near the periphery of said plate concave surface, a single wire electrical connection between said pendulum and the other side of said coils having a connection to a source of electric supply, a number of concentrically arranged spaced lines on the convex side of said translucent member and concentric with its convex surface, letters positioned on the periphery of said convex surface, said transmitting and receiving units being positioned whereby by viewing the convex side of the translucent member said spot light will indicate the direction and velocity of the wind.

2,665,584
PRESSURE GAUGE
Elbridge F. Bacon, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 24, 1949, Serial No. 117,665
2 Claims. (Cl. 73—411)



1. In a pressure gauge having a Bourdon tube, a substantially U-shaped pointer frame pivotally mounted in the gauge by axially aligned pivots in the legs of said frame, a lever arm adjustably carried by said pointer frame and extending between and substantially parallel to the legs of said frame, a pivot on said lever arm, a link between said Bourdon tube and said lever arm pivot, and a guide slot in the base of said pointer frame receiving the free end of said lever arm to limit relative movement between said lever arm and said pointer frame during adjustment of said lever arm to vary the axis of the lever arm pivot relative to the pivot axis of the pointer frame.

2,665,585
AUTOMATIC SAMPLE CUTTER
Thaddeus R. Marcell and Carter E. Porter, Cranford, and John H. Staib, Scotch Plains, N. J.
Application November 16, 1951, Serial No. 256,662
9 Claims. (Cl. 73—422)

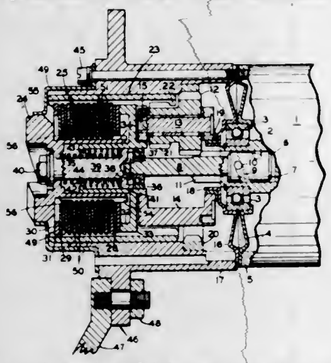


1. In a sample cutter of the class described, a sealing envelope of non-magnetic material having communication with a vacuum line, plural sample receivers arranged in a horizontal row with upwardly open mouths, receiver holder means to support each sample receiver in communication with the interior of said envelope and in sealed relation to the outside atmosphere, a filling conduit member enclosed entirely within said envelope and having an intake mouth and a discharge spout, means also entirely enclosed within said envelope for movably mounting said filling conduit member in a manner to cause the spout thereof to travel along a path overlying the row of receiver mouths, a drainage duct penetrating said envelope in hermetically sealed joint therewith and having its inner end in registration with the intake mouth of the filling conduit member to deliver sequential cuts of material into the same, and means to operate the filling conduit member in its path of movement from one receiver to another in succession in such a manner that the vacuum condition within the envelope is preserved throughout the receiver filling operation, said operating means comprising a propelling member movable outside the envelope in a path parallel to the row of sample receivers, and mutually attracting magnetic means affixed to the filling conduit member and the propelling member respectively in such proximity to the intervening envelope wall that movement of the propelling member will produce concurrent movement of the filling conduit member in a manner to cause its discharge spout to follow the row of sample receivers.

2,665,586
ENGINE STARTER APPARATUS
Samuel Gilbert, Cedar Grove, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application April 30, 1952, Serial No. 285,227
4 Claims. (Cl. 74—7)

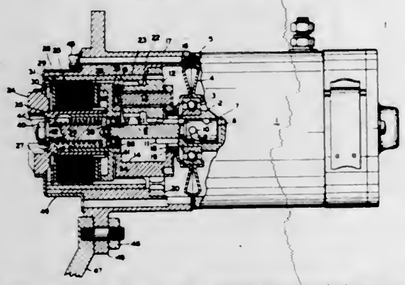
1. A splined clutch pack for connecting a starter jaw member for rotation with and axial movement relative to a barrel member, comprising a plurality of discs having internal splines adapted to be slidably splined to said jaw member, a plurality of discs having external splines adapted to be splined to said barrel, and a plurality of centering discs having internal splines

adapted to be slidably splined to said jaw member and positioned within said external splined



discs and being of a thickness less than said external splined discs.

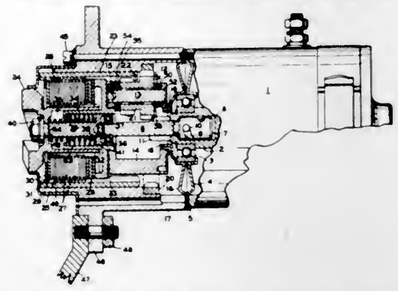
2,665,587
STARTER FOR INTERNAL-COMBUSTION ENGINES
Henry Troeger, Ramsey, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application April 27, 1951, Serial No. 223,305
3 Claims. (Cl. 74—9)



1. An engine starter comprising driving means, a pinion shaft, means including a cam connection for connecting said shaft for rotation with and axial movement relative to said driving means, a rotatable barrel member, reduction gearing interconnecting said barrel member and said pinion shaft, a starter jaw member, a splined clutch pack for connecting said starter jaw for rotation with and axial movement relative to said barrel member, and means responsive to axial movement of said shaft for urging said starter jaw to an extended position.

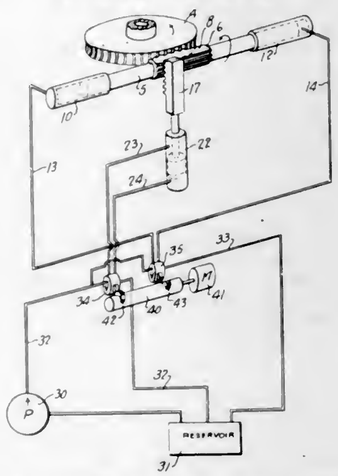
2,665,588
STARTER JAW ADVANCING MECHANISM
Samuel Gilbert, Cedar Grove, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application February 23, 1952, Serial No. 273,021
4 Claims. (Cl. 74—9)

1. An engine starter comprising driving means, a pinion shaft, means including a cam connection for connecting said shaft for rotation with and axial movement relative to said driving means, a rotatable barrel member, reduction gearing interconnecting said barrel member and said pinion shaft, a starter jaw member, a splined clutch pack for connecting said starter jaw for rotation with and axial movement relative to said barrel member, means responsive to axial movement of said shaft for urging said starter jaw to an extened position, and means including a spring



washer for restraining said reduction gearing from rotation to cause said axial movement.

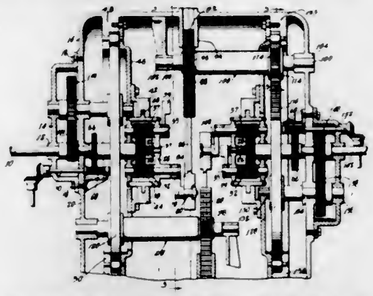
2,665,589
INDEXING MECHANISM
John J. Rusher, Royal Oak, Mich., assignor to Champion Spark Plug Company, Toledo, Ohio, a corporation of Delaware
Application May 15, 1951, Serial No. 226,370
8 Claims. (Cl. 74—88)



1. In an indexing mechanism, an indexing pinion, a longitudinally reciprocable rack-bar, a member carried by said bar for movement therewith and for transverse shifting movements relative thereto, said member having one set of rack teeth for meshing engagement with said pinion and a second set of rack teeth transverse to the first set, a second rack-bar in mesh with said second set of rack-bar teeth, and means operable to reciprocate said second rack-bar in predetermined timed relation to the strokes of said first rack-bar to move said first teeth out of meshing register with said pinion when the first rack-bar is in one position of its movement and into register with the pinion when said first rack-bar is in another position of its movement.

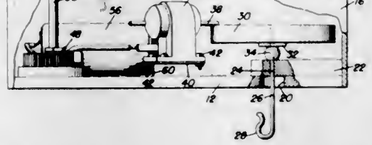
2,665,590
TRANSMISSION
Karl F. Weber, Los Angeles, Calif.
Application March 16, 1951, Serial No. 215,989
5 Claims. (Cl. 74—121)

1. A device of the class described comprising: a drive shaft, a plate, a crank operably connecting said plate to said drive shaft, means for pivoting said crank to position the axis of said plate with respect to the axis of said drive shaft, means for converting rotational motion of said plate to lineal oscillatory motion, means for converting said lineal oscillatory motion to rotary motion, a second plate, a driven shaft, a crank connecting said second plate to said driven shaft, means



for pivoting said last mentioned crank to position the axis of said second plate with respect to the axis of said driven shaft, means for converting rotational motion of said second plate to lineal oscillatory motion, means for converting said lineal oscillatory motion to rotary motion, and means for imparting said rotary motion to said drive shaft.

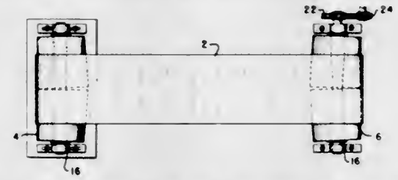
2,665,591
DEVICE FOR SPINNING FISH DECOYS
William C. Casselman, Erskine, Minn.
Application June 19, 1950, Serial No. 168,903
4 Claims. (Cl. 74—209)



1. A device for spinning a fish decoy comprising a base, a shaft extending through the base for rotation about a vertical axis, said shaft having means at its lower end for supporting a fish decoy, a friction wheel on said shaft, an electric motor having frictional driving engagement with the wheel, and electric battery and an electrical circuit connecting said battery to the motor, a thrust bearing for said shaft between the base and the wheel, and means for controlling the electrical energy supplied to the motor from the battery.

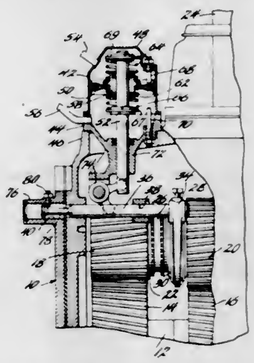
2,665,592
APPARATUS FOR AUTOMATICALLY CENTERING MOVING ENDLESS BELTS
Edwin T. Lorig, Ross Township, Allegheny County, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application April 12, 1950, Serial No. 155,408
3 Claims. (Cl. 74—241)

1. Apparatus for automatically centering a moving endless belt comprising a pair of rotatable pulleys around which the belt passes, at least one of said pulleys being a transversely split automatic centering roll in which each increment of surface area of the roll in contact with the belt will converge toward the center of the roll, and in which means are provided to positively



cause both parts of the roll to rotate at the same angular velocity.

2,665,593
POWER TRANSMITTING MECHANISM
Ivor H. Williams, Birmingham, and Ralph K. Super, Detroit, Mich., assignors, by mesne assignments, to Rockwell Spring and Axle Company, Coraopolis, Pa., a corporation of Pennsylvania
Application September 3, 1943, Serial No. 501,172
8 Claims. (Cl. 74—364)

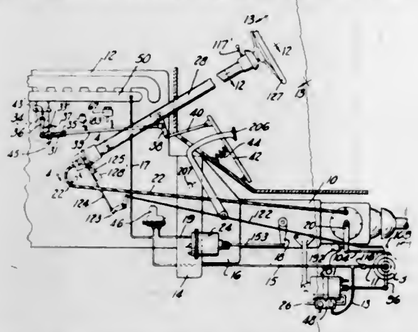


1. Fluid actuated gear shift mechanism comprising a movable fluid pressure responsive element, a reciprocable control member, cooperating stop means and means providing resilient actuating connections between said element and said member for effecting sequential two stage movement of said member upon movement of said element in either direction, further stop means in said mechanism limiting the overall range of travel of said member and means for adjusting said further stop means for accurately determining the limit positions of said reciprocable control member.

2,665,594
TRANSMISSION OPERATING MECHANISM
Harold W. Price, Pasadena, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application February 10, 1945, Serial No. 577,201, now Patent No. 2,601,629, dated June 24, 1952. Divided and this application September 24, 1951, Serial No. 247,994
7 Claims. (Cl. 74—472)

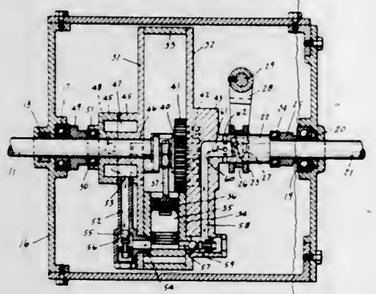
1. In an automotive vehicle provided with a power plant comprising an internal combustion engine, an accelerator, an ignition system including an ignition switch, a four-speeds forward and reverse transmission and a fluid coupling constituting a part of the means interconnecting the transmission and engine and operative to effect a smooth start of the vehicle from rest and to

facilitate a start of the vehicle from rest when the transmission is in gear, means for operating said transmission and for controlling the operation of the ignition system to facilitate a certain operation of the transmission operating means, said means comprising two double-acting motors serving when cooperating with each other to es-



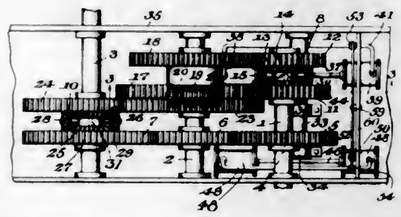
tablish the transmission in its four settings, one of said motors serving in part to control the operation of the ignition system, and means for controlling the operation of said motors comprising a manually operable selector switch mechanism, and a vehicle speed responsive governor operated switch mechanism.

2,665,595
HYDRAULIC TRANSMISSION
Charles R. Moon, Muncie, Ind.
Application December 9, 1949, Serial No. 132,085
1 Claim. (Cl. 74—752)



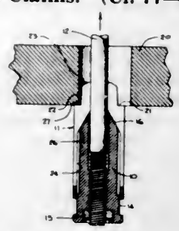
In a power transmission for inclusion between a load shaft and a variable speed prime mover having a drive shaft, a combination of a speed responsive unit continuously operable by the prime mover and at a speed proportional to the speed thereof, a casing forming a liquid reservoir, a driven drum rotatably mounted in said casing and connected with said load shaft, a plurality of cylinder members mounted within said drum and angularly disposed relative to the axis of said drum with the heads thereof extending toward the periphery of said drum, a piston member in each cylinder, gear means connected with said drive shaft, gears rotatably mounted within said drum in mesh with said gear means and connected to said piston members for causing relative reciprocation of said pistons within said cylinders, an intake manifold disposed on and coaxially of said drive shaft and having a fluid passage for receiving fluid from said reservoir, check controlled intakes fixed to said drum and connecting said intake manifold with said cylinder members, a discharge manifold disposed on and co-axially of said load shaft and including ports through said load shaft opening into said reservoir, check controlled discharge passages connecting said cylinder members with said discharge manifold and a collar slidable on said load shaft connected to said speed responsive unit and common to all of said discharge ports for simultaneously controlling the effective discharges from said ports and responsive to and in accordance with operation of said speed unit.

2,665,596
SHIFTLESS TRANSMISSION
Harold E. Varble, Avenal, Calif.
Application July 13, 1951, Serial No. 236,523
9 Claims. (Cl. 74—756)



1. Power transmission mechanism comprising a drive shaft, an intermediate shaft and a driven shaft, a primary gear train composed of a plurality of gears in mesh with each other and including a gear fixedly mounted on said drive shaft and gears freely mounted on each of the said other shafts, whereby all of the gears of said primary gear train are continuously driven by said drive shaft, a secondary gear train composed of a plurality of gears on said drive shaft and on said intermediate shaft and at least one gear on said driven shaft, said secondary gear train including a differential means fixed on said drive shaft drivingly connected to the gears on said shaft of said secondary gear train and also including a second differential means on said intermediate shaft drivingly connected to the gears on said shaft, a third differential means fixed on said driven shaft drivingly connected to the gears on said driven shaft of both said primary and secondary gear trains, means for selectively controlling the gears of the secondary train on said drive shaft whereby either forward or reverse rotation is imparted to said driven shaft.

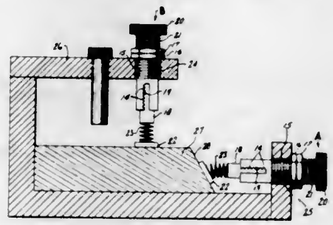
2,665,597
EXPANSIBLE ANCHOR
James L. Hill, Wichita, Kans., assignor to Boeing Airplane Company, Wichita, Kans., a corporation of Delaware
Application March 8, 1951, Serial No. 214,448
3 Claims. (Cl. 77—2)



1. A normally contracted expansible anchor for a draw bar adapted to be passed axially through a hole in a work piece and to expand and anchor

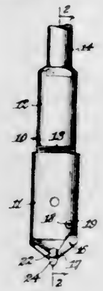
therein in response to draw bar thrust applied in a withdrawing direction, said anchor comprising: a generally cylindrical sleeve expander rigidly secured concentrically on the draw bar; an external annular shoulder near the outer end of said expander facing the direction of draw bar pull; an external frusto-conical camming surface at the inner end of the expander, also facing the direction of draw bar pull; an external cylindrical surface intermediate the ends of the expander; a generally cylindrical sleeve having its outer end slidably and concentrically seated on and encompassing the said cylindrical surface of said expander for movement axially with relation thereto; an external annular shoulder near the inner end of said sleeve facing said inner end and in the direction of draw bar pull; a plurality of circumferentially spaced longitudinally disposed slots in said sleeve extending from its inner end to a point near its outer end, dividing the slotted portion of the sleeve into a plurality of radially flexible fingers, the free ends of which project in the direction of draw bar pull; and an internal frusto-conical camming surface within the sleeve near its inner end for cooperation with the similar camming surface at the inner end of the expander to force the inner ends of said fingers radially outward in response to movement of the expander with relation to the sleeve in the direction of draw bar pull.

2,665,598
QUICK ACTION CLAMP
Raymond W. Hardy, Chula Vista, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California
Application January 11, 1952, Serial No. 265,996
4 Claims. (Cl. 77—62)



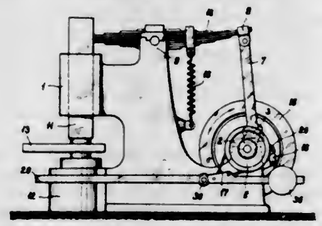
1. A device adapted to clamp a workpiece in a fixture having an aperture through a portion thereof comprising, in combination: a main body member slidable within said aperture and having an opening extending axially therethrough; said body member having a slot extending longitudinally thereof and terminating in said opening; one marginal wall of said slot being provided with a series of spaced apart holding teeth; means for securing said body member at any desired location in said aperture; a bolt extending through and slidable within the said opening, said bolt having a pin passing through said slot and adapted to engage any of said teeth; a pressure foot adapted to engage the workpiece; and a compression spring having one end connected to the end of said bolt adjacent to the workpiece and its other end connected to said pressure foot, said spring supporting the entire weight of said pressure foot, whereby movement of said bolt toward the workpiece causes said spring to advance the pressure foot against the workpiece and compress the spring and the rotation of the bolt causes said pin to engage one of said teeth and lock the bolt in workpiece-holding position.

2,665,599
POWER-DRIVEN TOOL
Michael Roman, New York, N. Y.
Application June 27, 1952, Serial No. 295,855
4 Claims. (Cl. 77—73.5)



1. A rotary cutting tool comprising a rotatable housing comprising a lower section and an upper section detachably connected with the lower section, said lower section having a central transverse kerf opening through the bottom surface thereof, a cutting blade extending into said kerf, means carried by said lower housing section which secure said blade in the desired cutting position, pilots disposed in a recess in the lower housing section for up and down movement with respect thereto, the lower ends of the pilots projecting exteriorly of said bottom surface, upper and lower tappets arranged for axial movement in the upper housing section, the lower tappet contacting the upper ends of said pilots, a helical compression spring arranged within the upper housing section and interposed between said tappets, cooperative means on the pilots and lower housing section limiting the downward movement of the pilots, and adjustable means on the upper housing section which bears on the upper tappet for the purpose of varying the tension of the spring.

2,665,600
SPRING HAMMER
Ignaz Pirkner, Graz-Andritz, Austria, assignor of one-half to Maschinenfabrik Andritz Aktiengesellschaft, Graz-Andritz, Austria, a firm of Austria
Application July 7, 1949, Serial No. 103,495
Claims priority, application Austria July 10, 1948
14 Claims. (Cl. 78—32)



1. A spring hammer including a frame, a laminated spring swingably mounted on said frame, a hammer head attached to one end of said laminated spring, a connecting rod attached to the opposite end of said spring, a crank shaft rotatably journalled in said frame and including a crank portion operably connected to said connecting rod, driving means for rotating said shaft including a fly wheel adapted for continuous rotation, clutch means for detachably coupling the crank shaft to said fly wheel, said flywheel having such mass characteristics as sufficient to impart

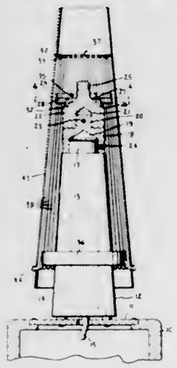
a sudden and powerful stroke to the hammer head when the clutch means is engaged, brake means for stopping the rotation of the crank shaft and thereby stopping the hammer when said clutch means is disengaged and resilient compensating means counter-acting the weight of the hammer head.

2,665,601

DEVICE FOR STRETCHING AND SHAPING SPECTACLE FRAMES

William B. Heath, New Bedford, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application June 30, 1949, Serial No. 102,203
14 Claims. (Cl. 81—3.5)



1. In a device for stretching and shaping the rims of spectacle frames or the like made of heat softenable material, the combination of an upright, holding means carried by said upright, a pattern having a predetermined peripheral contour shape carried by said holding means, a substantially conical sheath supporting unit positioned over said upright and comprising a plurality of longitudinally disposed rods joined at one end and adapted to be adjustably spaced with respect to one another and having their opposed ends in substantially fixed spaced relation, said unit fitting over said pattern with the rods engaging the peripheral edge thereof and defining a surface in the general area of engagement therewith corresponding substantially to the contour shape of the pattern, a substantially conical rim carrying sheath fitted intimately over said supporting unit and assuming substantially the shape thereof as determined by said pattern, said sheath in the general area of engagement with said pattern assuming a surface shape corresponding substantially to the contour shape of the pattern, and heating means connected to said upright and serving to heat the material of the rim carried by said sheath, whereby said rim may be moved along the surface of the sheath in the general area of engagement with said pattern and will be stretched and shaped to the form determined by the pattern.

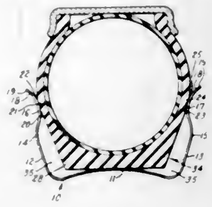
2,665,602

TIRE CHAIN APPLYING CLAMP

Moss A. Kent, White Plains, N. Y.

Application December 6, 1949, Serial No. 131,388
1 Claim. (Cl. 81—15.8)

An anti-skid chain applying tool comprising a single length of spring stock bent into a generally U-shape and including a transverse connecting portion for engaging the tire tread and side arms extending upwardly from the respective ends of said connecting portion, each of said side arms including a lower tire side clearance portion, which in the normal untensioned condition of said tool extends at an inward angle from said transverse portion, and an upper tire side engaging portion arcuately curved along its length with its convex face inwardly disposed whereby when said side arms are forced outwardly to varying degrees through engagement of said tool with tires of varying sizes the crest points at which said arcuate tire side engaging portions engage the tire sides vary longitudinally along said tire side engaging portions, said ar-



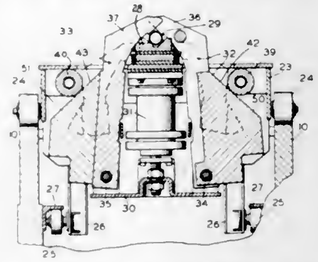
cuate portions each having at its free terminal end a chain connecting hook means, which in the engaged position of said tool on a tire is spaced outwardly from the tire side by the outward curving of said arcuate portion above the tire engaging crest point, and said arcuate portions each having in longitudinally spaced relation a plurality of inwardly directed sharp pointed tire side embedding prongs whereby at least one of said prongs is in an optimum location to substantially coincide with a crest point in engagement with a tire side and has substantially maximum tire side penetration under pressure of the tensioned side arm as the latter is spread outwardly by the tire engaged by said tool.

2,665,603

TESTING MACHINE CLAMPING DEVICE

Leo Hoffman, New York, N. Y., assignor to Hydropress, Incorporated, New York, N. Y., a corporation of Delaware

Application January 20, 1950, Serial No. 139,708
9 Claims. (Cl. 81—17.2)



1. In a clamping mechanism for pipe testing and the like, the combination comprising a frame means, an article receiving saddle on said frame means, a reciprocable means, a pair of clamping arms pivotally mounted on said reciprocable means and movable into and out of clamping relationship relative to each other, cam means on said frame means coacting with said clamping arms for movement thereof, said cam means being related to said clamping arms so that as said arms move upwardly, the clamping arms move above a plane of access to the saddle and then the clamping arms move inwardly into clamping relationship relative to each other as the upward

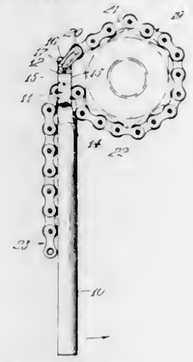
movement of the arms continues, and motor means mounted on said frame, said motor means being located under said saddle and between said clamping arms and being connected with said reciprocable means.

2,665,604

ADJUSTABLE LOOP CHAIN LINK WRENCH

Alexander Melvin Robertson, London, England

Application January 15, 1952, Serial No. 266,480
Claims priority, application Great Britain January 18, 1951
4 Claims. (Cl. 81—66)



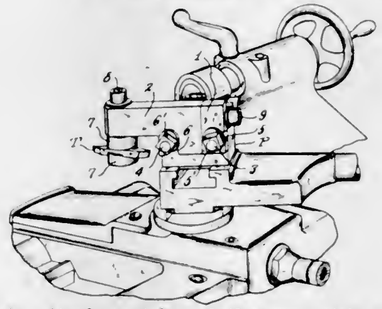
1. A chain wrench comprising a substantially straight handle, a chain having links, means fixing one end of the chain to one end of the handle, the handle having a hole located adjacent to the fixed end of the chain and extending through the handle in a direction transverse thereto, the size of the hole being such as to permit the loose end portion of the chain being freely slidable with small clearance through the hole in both directions for contraction or expansion of a loop formed by the chain between the fixed end and the hole, each chain link exceeding in length the thickness of the handle portion through which said hole extends whereby with the chain loop contracted around an object it is locked against expansion by reason of the engagement of a link of the chain with two opposite walls of said hole and caused to grip an object when the handle is moved toward the chain loop about the point at which the handle joins the fixed end of the chain.

2,665,605

TOOL ADAPTER FOR LATHES

Ernest P. Pierce, South Gate, Calif.

Application February 27, 1950, Serial No. 146,563
3 Claims. (Cl. 82—36)



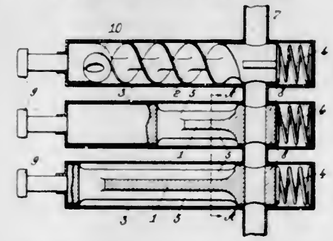
1. An attachment for a lathe, comprising a tool post with means for mounting the same so as to occupy vertical position upon the cross-slide of the lathe, a tool holder consisting of relatively adjustable forwardly and rearwardly laterally arranged abutting portions, the forward one of said portions having a recess transversely of the bottom thereof, the rearward one of said portions having a recess transversely of the rear side thereof, bolts extending laterally from said tool post and through said recesses respectively and each having a nut for releasable holding engagement of said portion with said tool post, and means for removably mounting a tool upon the forward end of said tool holder.

2,665,606

VALVE OR PISTON MECHANISM FOR BRASS BAND INSTRUMENTS

Curt Wohlrab, Jr., Heidelberg, Germany, assignor to Musik-Haus "Wohlrab" G. m. b. H., Heidelberg, Germany

Application March 23, 1950, Serial No. 151,410
4 Claims. (Cl. 84—392)



1. A musical instrument comprising a tube, said tube having a main wind passage, at least one branch for said main wind passage, said branch comprising a housing transversely disposed in said tube, a piston slidably disposed in said housing, said piston having formed therein a transverse wind passage adjacent one end, said transverse wind passage being adapted to be aligned with said main wind passage in one position of said piston, said piston further having formed therein a longitudinal wind passage, said longitudinal wind passage extending from points adjacent said transverse passage on opposite sides of said piston toward the end thereof most remote from said transverse passage, said piston further having formed therethrough a connecting passage for said longitudinally passages, said connecting passage being adjacent the end of the piston most remote from said transverse passage, said longitudinal passage further interconnecting said main passage when said transverse passage is moved out of alignment with said main passage.

2,665,607

CLOUD-DATA RECORDER

Clinton A. Blakeslee, Middlebury, and Abraham Walter Jacobson, New Haven, Conn., assignors to The Bristol Company, Waterbury, Conn., a corporation of Connecticut

Application July 21, 1945, Serial No. 606,440
11 Claims. (Cl. 88—14)

11. In a distance-measuring system including a transmitter and a receiver relatively and cyclically angularly movable with respect to each other for producing a signal representative of the distance of an object, the strength of said signal being dependent upon the character of said object and other factors, the combination of a recorder provided with means for driving a record sheet in a predetermined direction, a stylus, structure supporting said stylus for movement

between predetermined limits of said sheet, means for cyclically driving said stylus between said limits in timed relation with said relative movement between said transmitter and said receiver so that the position of said stylus is at all times related to the angular position between said transmitter and said receiver, said structure including a movable support for said stylus, and means responsive to the occurrence of said signal and to its magnitude for actuating said support to move said stylus to mark said record sheet, said mark having a position between said limits indicative of said angle and a length indicative of the magnitude of said signal.

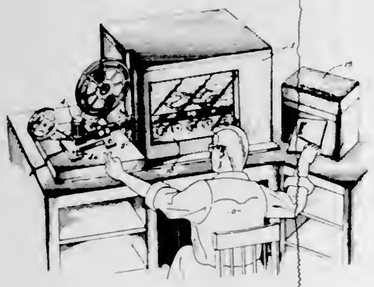


2,665,608

FILM VIEWER

Walter M. Clark, North Redondo, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application September 28, 1951, Serial No. 248,809
1 Claim. (Cl. 88—24)



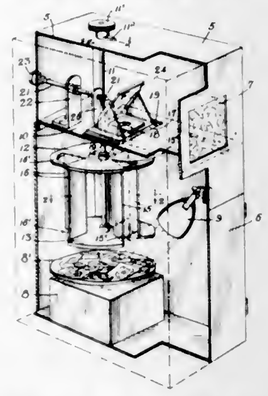
A film viewing device comprising; a rectangular cabinet; a front panel of said cabinet having a large generally rectangular opening; a main translucent viewing screen framed in said panel opening, said front panel being further equipped with supporting means for holding an additional screen having fixed images thereon in close contact with said main viewing screen; means defining an opening on one side of said cabinet substantially at a front edge thereof, and a vertically extending recessed channel on said one side, said channel having solid sides and bottom thereof except for said opening which is provided through said channel, whereby outside light is hindered from shining directly on the rear of said screens; means for mounting a picture film projector outside said cabinet at said one side to project a light beam through said opening across the back of said main screen toward the opposite side of said cabinet; a first mirror positioned to intercept said beam at said opposite side and out of the line of sight of an observer of said screens, and at an angle to said beam to reflect said beam rearwardly in said cabinet; and a second mirror at the rear of the interior of said cabinet and positioned to reflect light of said beam from said first mirror onto the back of said main screen to form a projected image thereon when said projector is operating, said mirrors being mounted on ball and socket brackets for easy adjustment in two planes, whereby said images on said additional screen and said projected image become combined into a single simultaneously viewed composite image.

2,665,609

PROJECTING KALEIDOSCOPIC MECHANISM FOR CREATING AND PROJECTING DESIGNS

Olive J. Gilluly, Los Angeles, Calif.

Application October 1, 1951, Serial No. 249,186
2 Claims. (Cl. 88—24)



1. In a machine for creating and projecting original designs: a housing, a support in said housing to receive separate design-producing articles thereupon, means for directing a spot light upon said articles to illuminate them, a carrier supported above said articles, said carrier having mounted therein between its top and bottom a plurality of pairs of angularly related mirrors, the angles of the different pairs being different, and each pair forming an open-way longitudinally between its mirrors, said carrier being open above and below the spaces between the mirrors of each pair, a lens above said carrier, an inclined reflecting surface supported above and movable with said lens to receive projections therefrom, and to reflect them horizontally, a screen on to which said designs are reflected, said carrier being movable to selectively position said pairs of angle mirrors and the open-way therebetween in alinement with said lens.

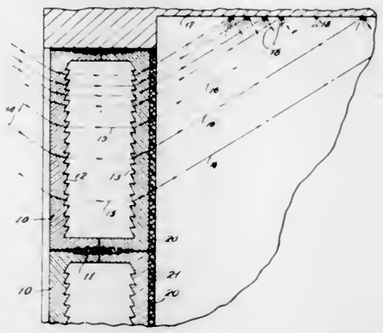
2,665,610

LIGHT DIRECTING GLASS BLOCK

Ward Harrison, Shaker Heights, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware

Application November 10, 1949, Serial No. 126,591
3 Claims. (Cl. 88—60)

1. A building wall for transmitting downwardly directed natural light into a room upwardly for indirect lighting from the ceiling of the room and having low brightness in generally horizontal directions when viewed from the interior of the room, the wall comprising, in combination, two light controlling components, one in the form of prismatic glass blocks having light redirecting means which act on downwardly sloping incident light from the exterior to transmit it inwardly through the blocks and redirect the dominant transmitted light upwardly toward the ceiling at angles substantially above the horizontal and emit a minor portion of the transmitted light in regions near the horizontal, the second component being in the form of relatively thin louvered plates mounted on the inner faces



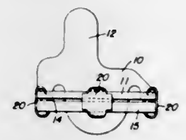
of the blocks and including louvers which extend horizontally along the inner faces of the blocks, slope upwardly therefrom, are spaced from one another for the transmission of upwardly proceeding light and act on the lower angled light from the blocks falling thereon to obscure the block surface in generally horizontal directions.

2,665,611

MIRROR SUPPORTING MOUNT AND SECURING MEANS

Clarence E. Smith, Rochester, N. Y., assignor to Graflex, Inc., Rochester, N. Y., a corporation of Delaware

Application December 21, 1950, Serial No. 201,945
3 Claims. (Cl. 88—96)



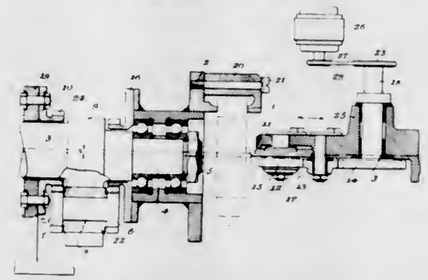
1. In combination, a mirror, and a support therefor, said support having three spaced bosses integral therewith and projecting from one face thereof, said bosses having front seating faces lying in a common plane to provide a three-point bearing against which the adjacent face of the mirror is adapted to seat, said support having three recesses formed in its opposite face in line with said bosses, and three removable spring clips, each adapted to extend over adjacent edges of the mirror and support and each having its opposite ends bearing respectively against the distal faces of the mirror and support, the end of each spring clip which engages against the support seating in one of said recesses of the support and the opposite end of each spring clip engaging the mirror at a point in line with a boss and recess, whereby each spring clip applies pressure resiliently on the mirror in line with a boss and the three spring clips together hold the mirror resiliently on the support.

2,665,612

DEVICE FOR PRODUCING INTERNALLY TOOTHED RING GEARS AND THE LIKE

Otto Nübling, Berlin-Frohnau, Germany, assignor to Theodor Klatte, Bremen-Huchting, Germany

Application April 26, 1951, Serial No. 223,059
4 Claims. (Cl. 90—3)



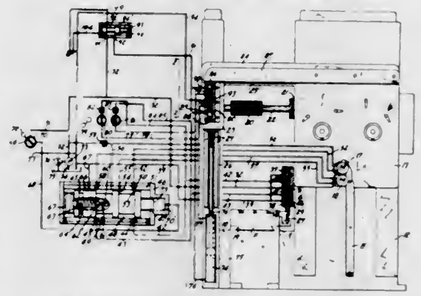
1. A device for the cutting of internal teeth in gear rings of gear pumps adapted for coaction with a gear wheel supported eccentrically thereto comprising a first shaft rotatably mounted, a second shaft eccentrically mounted on an end of said first shaft, a work piece holding chuck rotatably journalled on said eccentric shaft, said eccentric shaft being displaced in crank fashion on said first shaft to the extent of the eccentricity between the gear ring and gear wheel of the gear pump, a bearing fixed on the periphery of said first shaft of said device in eccentric relation thereto, planetary gears comprising axially spaced planetary wheels on a common shaft rotatably journalled in said bearing and rotatable with said shaft of said device, a sun wheel fixed to the frame of said device and concentric with said first shaft of said device, said sun wheel being in operative connection with one said planetary wheel for rotation thereof and the other said axially spaced planetary wheel upon rotation of said shaft of said device, said planetary gears coacting with said chuck for superimposing a speed of rotation upon the machine rotation by rotating said chuck around said eccentric shaft.

2,665,613

OVERARM DEFLECTION COMPENSATOR

Herman Horlacher, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio

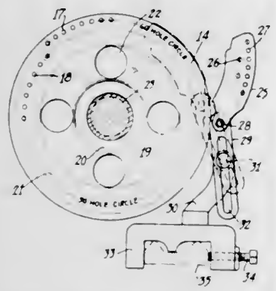
Application October 13, 1951, Serial No. 251,239
9 Claims. (Cl. 90—20.5)



1. In a pendant for a machine tool overarm supported at one end in a fixed part of the machine, a housing having bearing means for rotatably supporting the outboard end of a cutter

arbor also supported at one end in a fixed part of the machine, means attaching the housing to the outboard end of the overarm whereby the overarm will support the free end of the cutter arbor against deflective movement under cutting loads, auxiliary means including a control member slidably mounted for relative movement in the housing, a rigid member mounted on the machine in engagement with said control member for holding it against movement with said housing, and power operable means effective in response to relative movement between the housing and control member for applying an auxiliary force to said overarm opposing a deflective force thereon.

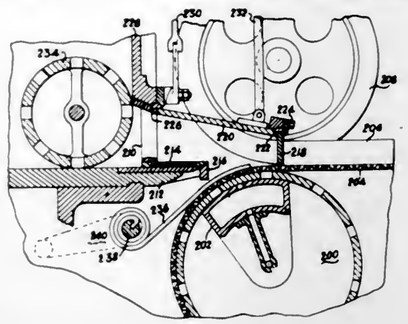
2,665,614
WORK DIVIDING ATTACHMENT
Frank A. Reip, Brooklyn, N. Y.
Application November 25, 1949, Serial No. 129,339
3 Claims. (Cl. 90—57)



1. The combination with a machine tool having a work rotating member and a stationary portion; of dividing means for limiting the rotary movement of the work in predetermined increments comprising a ring mounted for rotatable movement with the work, and having on one face thereof a plurality of rows of holes the holes of each row being spaced different distances apart, a vernier member having a row of holes to match each of the rows of holes on the ring and the holes of each row in said vernier member being spaced apart different distances a pin for sequentially aligning the holes matching rows in the vernier and ring to rotate the work different increments of rotary movement, a base for supporting the vernier and means for adjustably mounting the vernier on said base for movement toward and away from said ring.

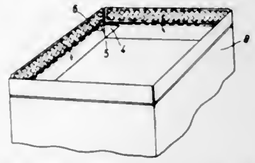
2,665,615
APPARATUS FOR MANUFACTURE OF PAPER
Nicholas J. Niks, Munising, Mich.
Application January 12, 1949, Serial No. 70,510
3 Claims. (Cl. 92—44)

1. The combination with a paper making machine, a hollow foraminous breast roll, a wire conveyor belt passing around said roll, means for applying a layer of paper stock to said belt on said roll comprising a head box having an opening against the belt and terminating in a slice where the belt leaves the head box opening, said slice being located where the belt leaves the roll, means within said roll for supplying fluid to said stock under pressure through said roll substantially simultaneously with delivery of the stock onto the belt on the roll and throughout the application of stock to said belt on said roll and prior to the stock passing said slice, and an apron within said head box opening having its end parallel with said slice and spaced therefrom and movable over the surface of said belt to mask off



a portion of the belt from the influence of the fluid supply means.

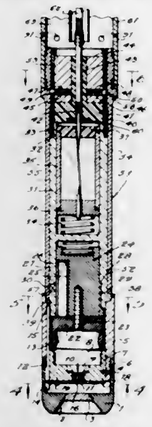
2,665,616
METHOD OF MANUFACTURING BOXES
Theodor Jungmayr, Stuttgart, Germany
Application May 10, 1952, Serial No. 287,165
1 Claim. (Cl. 93—55.1)



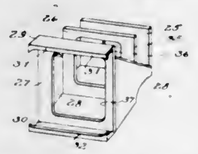
A method of producing boxes from a casing blank and a closure blank, the closure blank having foldable borders and being formed with corner cut-outs, and having a foil of foldable material attached thereto, said foil having extending portions projecting beyond the corner cut-outs and covering the same, comprising; upturning the borders of the closure blank to form a tray with said extending foil portions forming projecting corner tips while dividing said extending foil portions to project inwardly of the tray and between the edges of the cut-outs of the closure blank to form inwardly projecting tips; holding the projecting corner tips against adjacent upturned borders of the closure blank; inserting the thus produced and erected closure into one end of the casing blank; folding edge portions of the casing blank about the borders of the end closure and over the folded corner tips; and joining the edge portions of the casing blank to the borders.

2,665,617
CAMERA FOR TAKING PHOTOGRAPHS OF BODY CAVITIES
Ernest J. Marcouiller, New York, N. Y.
Application September 7, 1950, Serial No. 183,608
5 Claims. (Cl. 95—11)

1. Apparatus for photographing body cavities, comprising in combination, elongated support means having an end portion adapted to be located within a body cavity; an end camera located at the extremity of said end portion of said support means; a side camera mounted within said elongated support means next to said end camera; shutter means movably mounted on said elongated support means and being operatively connected to said cameras for simultaneously exposing film in the same, said shutter means comprising a first tubular shutter member located about said side camera and being mounted for movement on said elongated support means between one position where film in said side camera is covered and another position where film in said side camera is exposed, a second shutter member located in said end camera for movement between one position where film in said end camera is covered and another position where film in said end camera is exposed, spring means operatively connected only to said second shutter member for urging the same toward the other position thereof and an elongated slidably mounted member separate from and located between said first and second shutter members and engaging the same for moving said second shutter member against the action of said spring means into said one position thereof when said first shutter member is moved into said one position thereof; and operating means mounted on said elongated support means and being connected to said first shutter member for moving the latter from said one position to said other position thereof.

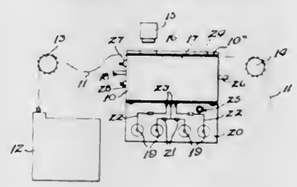


2,665,618
LIGHT BAFFLE STRUCTURE FOR PHOTOGRAPHIC CAMERAS
Reinhold Heidecke, Braunschweig, Germany, assignor to Franke & Heidecke, Fabrik Photographischer Präzisions - Apparate, Braunschweig, Germany, a firm of Germany
Application October 24, 1950, Serial No. 191,794
Claims priority, application Germany October 27, 1949
1 Claim. (Cl. 95—11)



The combination with a camera of the type having a rigid body including rigid walls forming an exposure chamber and rigid walls forming a reflex focusing chamber in the body above the exposure chamber, said exposure chamber being capable of being opened at its back end, of a unitary one-piece rigid baffle wall structure insertable into said exposure chamber from the rear when its back end is opened, said baffle wall structure having two lateral walls extending in a general fore and aft direction and lying closely adjacent the inner surfaces of the rigid side walls of said exposure chamber, and a series of light-baffle partitions integrally connected to and supported from said lateral walls and extending substantially perpendicular to the optical axis of the exposure chamber, each baffle partition having approximately centrally therein a light-transmitting aperture, the apertures being of progressively increasing size from the front partition to the rear partition, said baffle wall structure terminating at its rear end in a rearwardly extending bottom flange and a rearwardly extending top flange spaced from and approximately parallel to each other, and film guide flanges integral with said top and bottom flanges at the rear edge thereof and having flat rear faces lying substantially in a common plane perpendicular to said optical axis of the exposure chamber to serve as a guide for positioning photographic film.

2,665,619
APPARATUS FOR PROCESSING PHOTOGRAPHIC FILM
Clifton M. Tuttle and Fordyce M. Brown, Haleslte, N. Y., assignors to Kenyon Instrument Company, Inc., Huntington, N. Y.
Application September 9, 1949, Serial No. 114,701
7 Claims. (Cl. 95—14)

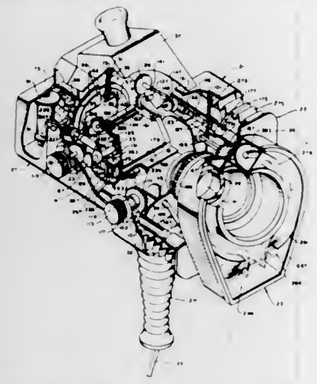


1. Apparatus for rapid processing of photographic film, which comprises a processing head having opposing surfaces defining a path for movement of the film along the head, one of the surfaces having a fluid-conducting port and a separate light-conducting port spaced along said path and opening into the path on the emulsion side of the film, and the other surface having two light-conducting apertures opening into said path on the base side of the film and on opposite sides of the fluid-conducting port, one of said apertures being located in advance of the fluid-conducting port, reckoned in the direction of the film movement along the path, and forming an exposure station for the film, and the other aperture being aligned with said light-conducting port and forming therewith an image projecting station, the head also containing a fluid supply passage leading to said fluid-conducting port, and valve means mounted within the head and in said supply passage for controlling the flow of a processing fluid to said fluid conducting port.

2,665,620
ROLL-FILM CAMERA INCORPORATING A ROTATABLE BACK
Rollin W. King, Berkeley, and Emmanuel Berlant, Culver City, Calif., assignors, by mesne assignments, to Graflex, Inc., Rochester, N. Y., a corporation of Delaware
Original application September 12, 1945, Serial No. 615,906, now Patent No. 2,550,698, dated May 1, 1951. Divided and this application July 12, 1950, Serial No. 173,396
27 Claims. (Cl. 95—31)

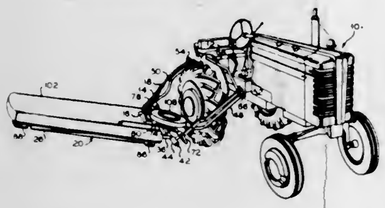
1. A reflex roll film camera having an operating handle upon the camera body for manual

manipulation, a rotatable back, rotatable film holding means mounted in said rotatable back, film advancing means mounted partly in said camera body and partly in said rotatable back, and operatively connected to said film holding means to rotate the same to advance the film, movement-transmitting means operatively connecting said handle with the film advancing means, so that by movement of said handle the film advancing means operates to advance the film, gear means consisting of at least two nor-



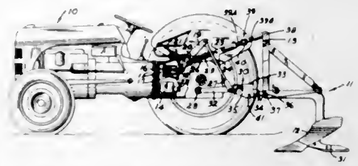
mally directly inter-engaging motion-transmitting members that are disengageable from each other and constituting a part of the said motion-transmitting means operatively connecting said handle and said film advancing means, whereby movement of the operating handle advances the film advancing means, and means whereby such normally inter-engaging movement transmitting members of the gear means may be disengaged from each other prior to rotating the back and re-engaged after rotation.

2,665,621
CULTIVATOR ATTACHMENT
Alexander Smith and Burton Durant Baggs, Jr., Sanford, Fla.
Application April 13, 1951, Serial No. 220,812
7 Claims. (Cl. 97—40)



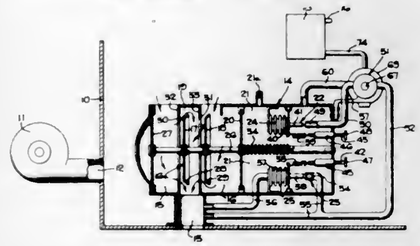
6. A cultivator attachment for tractors comprising a shaft adapted to be rotatably mounted on a tractor longitudinally thereof and having an operating lever secured to one end thereof, an outwardly extending arm rotatably mounted on each of the opposite ends of said shaft, an implement frame pivotally mounted on the outer ends of said arms, a second shaft rotatably mounted on said arms in spaced relation from the outer ends thereof, an auxiliary wheel mounted on said second shaft for rotation about an axis transverse thereto, an operating arm on one end of said second shaft, a link pivotally connected at one end to said operating lever and at its opposite end to said operating arm, and another arm rigidly secured to said second shaft and having its outer end pivotally and slidably connected to said framework.

2,665,622
TRACTOR BORNE AGRICULTURAL IMPLEMENT AND HITCH THEREFOR
Ernest V. Bunting, Dearborn, Mich., assignor to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware
Application June 5, 1946, Serial No. 674,597
10 Claims. (Cl. 97—46.07)



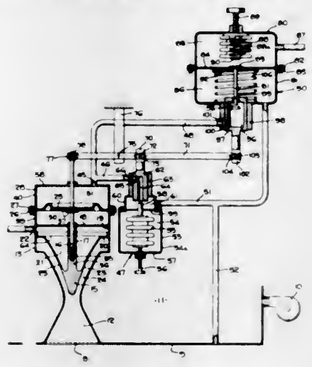
1. For a tractor having a draft link trailingly pivoted on its rear end portion and an automatic draft control for effecting raising and lowering of said link in proportion to the stress applied to a stress responsive element of such control, the combination of an implement having a generally horizontally projecting ground penetrating portion and a rearwardly located surface for supporting the same in the ground, means including a compression link pivotally connected to the upper portion of said implement for applying stress to said control element in accordance with the ground reaction on said implement, and means including a lower tension link pivotally connected to said implement and also adapted for pivotal connection to said draft link for effecting a fore and aft rocking of said implement by jackknifing of said draft link and tension link toward and from each other as an incident to raising and lowering of said draft link.

2,665,623
ISOBARIC OVERRIDE CONTROL
James M. Kemper, Hollywood, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application May 23, 1950, Serial No. 163,768
20 Claims. (Cl. 98—1.5)



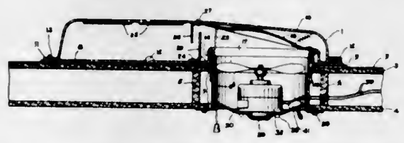
1. In mechanism for controlling pressure within an enclosure: walls defining a control pressure chamber; a movable pressure sensitive control element subjected on one side to enclosure pressure and on the other side to control chamber pressure; pressure control means for said control chamber, including pressure responsive means having one side subjected to control chamber pressure and adapted to control the pressure in said chamber; and rate of pressure change control means, including a pressure responsive element, said rate of pressure change control means being arranged in series with the first mentioned pressure responsive means.

2,665,624
DIFFERENTIAL AND RATIO CONTROL
Robert A. Arthur, Los Angeles, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application June 17, 1950, Serial No. 168,726
5 Claims. (Cl. 98—1.5)



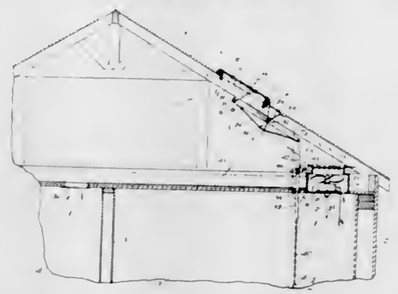
1. In mechanism for controlling the pressure in an enclosure: means for controlling the flow of fluid relative to said enclosure, including a movable pressure sensitive element subjected on one side to enclosure pressure; walls defining a control pressure chamber, the other side of said pressure sensitive element being subjected to the pressure in said chamber; means for controlling the pressure in said chamber including a pair of cooperable valve members controlling the flow of fluid relative to said chamber; an absolute pressure responsive device controlling one of said valve members, said absolute pressure responsive device being exposed to enclosure pressure; means connecting said pressure sensitive element and the other valve member; a differential and ratio control mechanism including a movable wall member exposed on one side to atmospheric pressure and on the opposite side to enclosure pressure; a pair of valve members cooperable with each other for controlling the flow of fluid relative to said control chamber, one of said valve members being connected with the movable wall and the other of said valve members being connected with the connecting means; and an absolute pressure responsive device responsive to enclosure pressure and mechanically cooperable with the movable wall only when the pressure in the enclosure drops below a predetermined value.

2,665,625
VENTILATOR ASSEMBLY
Walter J. Woodhams, Marshall, Mich., assignor to Woodlin Metal Products Company, Marshall, Mich.
Application April 10, 1950, Serial No. 155,018
8 Claims. (Cl. 98—19)



1. A ventilator assembly, which comprises a roof plate having an opening therethrough at one end, a watertight upturned flange circumscribing said opening, a damper for closing said opening and covering said flange, a hinge for said damper, means including a holding mechanism for holding said damper in various positions as well as opening and closing same, an upwardly extending cover member for said roof plate, said cover member being in the form of an open bottom hood with side panels, and a substantially flat top panel, inturned louvers in said substantially flat top panel of said cover member, all of said louvers extending inwardly from said substantially flat top panel so as to be substantially equally efficient under front, rear, or sidewise wind direction and being located at one end of same so as to leave an unperforated portion of the top panel of said cover member completely covering and elevated above said upturned flange opening through said roof plate, said hinge for said damper being at the edge of same remote from said louvers to facilitate air flow when said damper is in open position, drain members for draining out any liquid passing through said louvers into the space between said roof plate and said cover member, a downwardly extending sleeve tightly fitting said upturned flange circumscribing said opening through the roof plate, a ceiling plate, a second sleeve mounted on said ceiling plate and telescopically fitting said first sleeve to form a relatively tight but free rotary and endwise adjustable fit therewith, means for anchoring said sleeves in fixed position relative to each other, and at least one baffle member within the space between said roof plate and cover member, said baffle being mounted between all of said louvers on one side and said upturned flange on the other to block direct passage of liquid, such as rain, through said louvers and into the top of said flanged opening while leaving a suitable passageway for gaseous fluid flow in series through said dampered opening and louvers of said assembly when said damper is open.

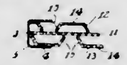
2,665,626
BUILDING VENTILATOR
Alexander H. Jones, Jackson, Miss.
Application June 30, 1950, Serial No. 171,392
2 Claims. (Cl. 98—43)



1. Ventilating apparatus for a building having a ceiling provided with a ventilating opening therein and a roof provided with a ventilating opening therein spaced from said ceiling opening comprising a housing mounted on said ceiling and disposed within said ceiling opening, damper means movably mounted in said housing to open and close said ceiling opening, a power operated blower in said housing for forcing air through said ceiling opening, a cover for the opening in said roof, a bracket secured to said roof adjacent the opening therein, a lever pivotally mounted intermediate its length on said bracket, means pivotally connecting one end of said lever to said cover, flexible means connected between said

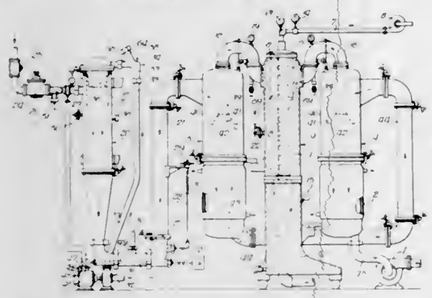
cover and said roof maintaining the cover substantially parallel to the roof and over the roof opening when the cover is raised, a bar pivotally connected at one end to said lever at the end of said lever remote from said cover, a rocker pivotally mounted on said ceiling adjacent the ceiling opening, means connecting said rocker to said damper, means pivotally connecting said bar to said rocker to enable said bar to move said lever and said rocker simultaneously, and a flexible strand connected at one end to said bar at the end of said bar remote from said lever and depending from said bar below said ceiling to provide means for manually moving said bar.

2,665,627
VENTILATOR
Raymond H. Fager, North Wales, Pa.; Clara V. Fager, administratrix of said Raymond H. Fager, deceased, assignor to Clara V. Fager
Application September 12, 1949, Serial No. 115,174
5 Claims. (Cl. 98—99.8)



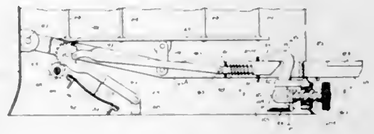
1. The combination of a window frame having a vertical groove between laterally spaced side walls, with a ventilator comprising a frame, a gravity-actuated plate having a diagonally arranged slot, and fastening means extending through said slot and slidably connecting said plate to said frame and cooperating with the opposite sides of said slot, to cause said plate when gravitating towards a lower position to jam said ventilator frame between the side walls of said groove.

2,665,628
APPARATUS FOR TREATING LIQUIDS
Arthur H. Boileau and Charles J. Rayman, Cedar Rapids, Iowa, and Francis S. Board, Chicago, Ill., assignors to Cherry-Burrell Corporation, Wilmington, Del., a corporation
Application October 22, 1948, Serial No. 56,022
3 Claims. (Cl. 99—252)



3. In a device of the class described, the combination of an initial processing chamber, a subsequent processing chamber, a connecting duct interposed therebetween and communicating with said chambers, an external product supply duct communicating with the initial processing chamber at a place remote from said connecting duct, a processing medium duct communicating with said initial chamber adjacent to the product supply duct whereby suitable processing medium may be introduced into said chamber concurrently with the product to be processed and in proximity therewith, a product withdrawal duct communicating with said subsequent processing chamber at a place remote from said connecting duct, and an exhausting duct, communicating with said subsequent processing chamber for removing processing medium therefrom, said external product supply duct being provided with pressure operated valve means whereby product is admitted to said initial chamber at a predetermined pressure, said external product supply duct being connected with a source of product under pressure and having a cooperating pressure-operated valve through which product is introduced to said initial chamber, said valve being adapted to withhold product from said chamber when the product pressure is below a predetermined level and said valve having air bleeding means to insure removal of air from the product before supplying said product to said initial chamber.

2,665,629
AUTOMATIC TOASTER WITH THERMOSTATIC DELAY MEANS
Frederick E. Hummel, Chicago, Ill.
Application April 27, 1948, Serial No. 23,543
5 Claims. (Cl. 99—335)

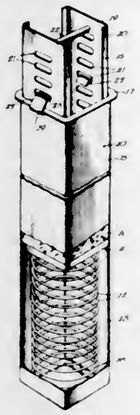


1. In combination, a toaster housing, vertically reciprocable bread-supporting means in said housing, a lever pivotally mounted in said housing, a link having one end secured to said bread-supporting means and its other end secured to said lever, a latch bar carried by said lever and movable lengthwise thereof, a latch member latchingly engageable with said latch bar for holding said lever in a given position, a driving gear, means for continuously rotating said driving gear, a driven gear, thermo-responsive means operative to effect intermeshing of said gears when the ambient temperature is above a predetermined value, and means interconnecting said driven gear with said latch bar and operative to retract said latch bar in response to rotation of said driven gear.

2,665,630
CONTAINER
Norman J. Allbright, Chicago, Ill., assignor to The Allbright-Nell Company, Chicago, Ill., a corporation of Illinois
Application November 21, 1950, Serial No. 196,925
3 Claims. (Cl. 99—351)

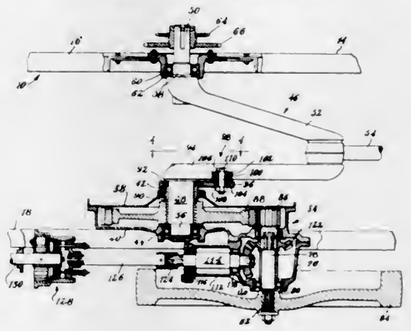
1. As a new article of manufacture, a container designed to retain and mold a piece of meat or the like during processing thereof and comprising a tubular open ended body adapted to extend vertically and have the piece of meat introduced into it through its upper end and provided at its upper end with a continuous integral outwardly extending right angle flange, a bottom member shaped conformably to, and mounted for vertical sliding movement in, the interior of the lower end of the body, adapted to underlie and support the piece of meat, and provided with spring means for urging it upwards, a vertically elongated U-shaped cover member shaped conformably to the interior of the upper end of the body, consisting of a bottom piece and laterally spaced upwardly extending side pieces, adapted after insertion of the piece of meat into the body to be inserted into

the upper end of said body and then slid downwards into an operative position wherein it engages the upper end of the piece of meat in such manner that said piece of meat is compressed endwise between the bottom piece and the bottom member, and having in its side pieces vertically extending series of spaced apart slots, and a pair of separately formed independent C-shaped clips operative releasably to secure the cover member



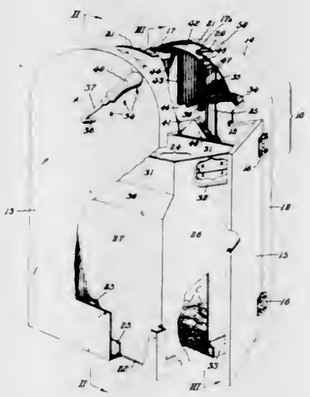
in its operative position, associated with the side pieces, respectively, and adapted in connection with use thereof and after sliding of the cover member into its said operative position to have their lower ends hooked around opposed portions of the outwardly extending flange and the upper ends thereof manipulated into hooked relation with the adjacent slots in said side pieces of the cover member.

2,665,631
CROP-HANDLING MACHINE AND DRIVE MECHANISM THEREFOR
Talbert W. Paul, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application July 7, 1951, Serial No. 235,662
3 Claims. (Cl. 100—179)



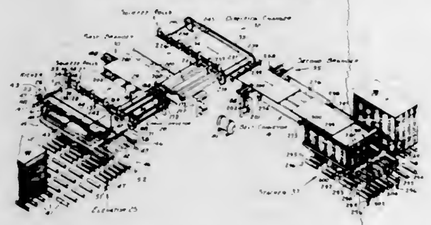
1. A baler, comprising: an elongated bale case structure including parallel side elements spaced apart transversely relative to the length of said structure; a plunger reciprocable lengthwise of said structure and between said side elements; a drive housing carried by said structure alongside one of said side elements and including an inner wall having an opening on a first axis transverse to said structure and facing inwardly and an outer wall facing outwardly and having an opening on a second axis spaced from and parallel to the first axis; a crank shaft between said side elements and rotatable on said first axis, and having a first shaft portion entering the housing through the opening in the inner wall, a coaxial second shaft portion proximate to the other of said side elements, and a radial crank throw connected to the plunger; sleeve means concentric with and rotatably surrounding the first shaft portion and extending through said inner wall opening and having an external end exposed inwardly of said inner wall and an enclosed end within the housing; a drive shaft journaled in the housing on said second axis and projecting outwardly through the opening in the outer wall of the housing; a flywheel outside the outer wall of the housing and fixed to said drive shaft; drive means within the housing and interconnecting said drive shaft and the inner end of the sleeve means; and overload-releasable drive means external to the housing inwardly of the inner wall and connecting the sleeve means and the crankshaft.

2,665,632
ARTICLE CRUSHING APPARATUS
Samuel Kawa, Philadelphia, Pa.
Application November 16, 1951, Serial No. 256,732
3 Claims. (Cl. 100—233)



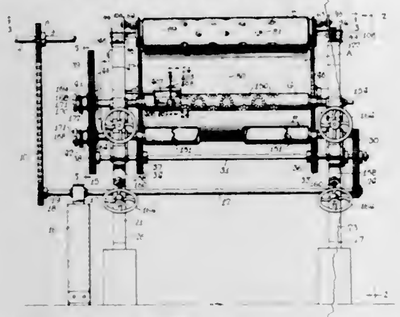
1. Article crushing apparatus comprising crusher plates one movable toward and away from the other, pendulum means fixed to the movable crusher plate, said pendulum means having a normally vertical rest position, manually operable means for separating said crusher plates to admit the article therebetween, said crusher plates having retainer portions which retain the article between them when they are thus separated, said manually operable means also swinging said pendulum means away from the vertical whereby the pendulum means has capacity upon release of said manually operable means to move the movable crusher plate under gravity action toward the other crusher plate to crush the article therebetween, and resilient means operable when the crusher plates come together to cause the movable crusher plate to rebound away from said other crusher plate after crushing the article, whereby free space is provided between the retainer portions of said crusher plates immediately below the crushed article through which the crushed article may fall.

2,665,633
PANEL BRANDER
Dale L. Schubert, Tacoma, Wash., assignor to Plywood Research Foundation, Tacoma, Wash., a corporation of Washington
Application November 21, 1947, Serial No. 787,395
1 Claim. (Cl. 101—11)



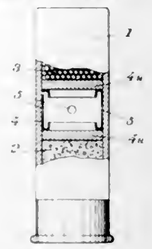
A device for branding plywood panels of different dimensions comprising spaced apart rotatable brander head means; horizontally adjustable brander head supporting means supporting both said brander head means for relative movement toward and away from each other to thereby accommodate panels of different dimensions, as width, in their direction of travel between said brander head means; transfer means for conveying said panels past, between and in side edge contact with both said brander head means; second spaced apart rotatable brander head means; second horizontally adjustable brander head supporting means supporting both said second brander head means for relative movement toward and away from each other to thereby accommodate panels of different dimensions, as length, in their direction of travel between said second brander head means; and second transfer means for changing the direction of travel of said panels and conveying said panels past, between and in end edge contact with both said second brander head means.

2,665,634
STENCIL PRINTING APPARATUS
Samuel M. Schwartz and Daniel Gross, Paterson, N. J., assignors to Velveray Corporation, New York, N. Y., a corporation of New York
Application March 10, 1947, Serial No. 733,565
5 Claims. (Cl. 101—120)



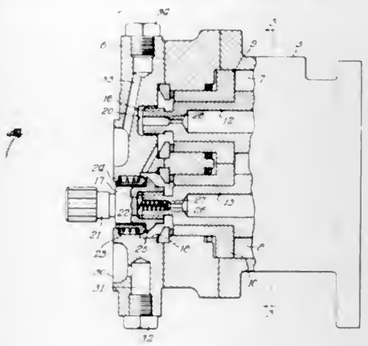
5. In a textile flock printing machine, a rotating hollow cylinder having ring gears mounted on the outside ends thereof, said cylinder having extending longitudinally therethrough at the lower part thereof two blades converging at the interior surface of the cylinder to form a pool of adhesive, rollers pressing down on the upper part of said cylinder, arms carrying said rollers pivotally mounted on said machine, said blades having extensions beyond said cylinder, arms cooperating with said blades to hold said blades down against the interior face of said cylinder, adjustable means to regulate the pressure of said blades against said cylinder, said cylinder having end extensions beyond said ring gears, rollers riding on the peripheries and ends of said extensions to hold said cylinder in correct positions, and a weighting member to weight said last mentioned rollers.

2,665,635
WAD
Maurice Edmond Morel, Sceaux, France, assignor to Societe Francaise des Munitions de Chasse, de Tir et de Guerre, S. A., Issy-les-Moulineaux, France, a society of France
Application June 28, 1950, Serial No. 170,724
Claims priority, application France June 30, 1949
2 Claims. (Cl. 102—95)



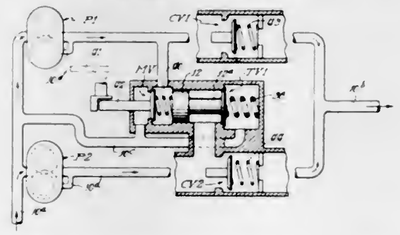
1. A cartridge wad including a cylindrical deformable side wall and substantially flat front and rear end walls limiting between them an air chamber, said side wall being provided with at least one hole connecting said air chamber with the outside of said side wall.

2,665,636
REVERSIBLE GEAR PUMP
John A. Lauck, Shaker Heights, and James A. Compton, South Euclid, Ohio, assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application November 19, 1949, Serial No. 128,442
7 Claims. (Cl. 103—3)



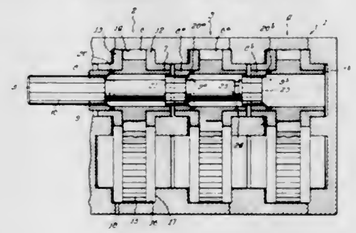
1. In a gear pump, a pump housing containing a pair of adjoining, substantially cylindrical chambers, said housing having a pair of ports formed therein on opposite sides thereof and communicating with said chambers, a pair of intermeshing pumping gears in said chambers, bearing bushing and end plate defining means associated with said pumping gears and supported in said housing, a shaft drivably associated with each of said pumping gears and rotatably supported in the associated bushings, a coupling termination formed on each of said shafts and extending beyond one end of said housing, said terminations being each located at the same end of the housing, a coupling and mounting plate defining means supported on said end of said housing and having a recess formed therein to receive either one of said coupling terminations and a bore to receive the other of said terminations, coupling means rotatably supported in said bore and engageable in coupling relation with the one of said coupling terminations located in said bore, and seal defining means interposed in sealing relation between said coupling means and said mounting plate bore for substantially preventing escape of fluid past said coupling means.

2,665,637
PUMPING SYSTEM
John Alfred Lauck, South Euclid, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application May 7, 1947, Serial No. 746,584
6 Claims. (Cl. 103—4)



1. An intermeshing gear type pump assembly for transferring low viscosity liquid fuel including means defining an inclosing housing having a main inlet thereto and a main outlet therefrom, a first intermeshing gear unit within said housing normally functioning as a primary liquid pump, a second intermeshing gear unit within said housing normally functioning as a continuously rotating emergency stand-by liquid pump, each of said gear pumps being of the pressure loaded type comprising means defining end plates or bushings held in pumping seal engagement with the gear side faces by a small differential pressure generated by the particular gear unit, and passage defining means for applying to the back face of the bushings discharge pressure developed by said pump, control valve means operable to cause the delivery of liquid under pressure from both pumps to said main outlet from said assembly upon the initial operation thereof, said control valve means including a first check valve interposed between the discharge side of said primary pump and the outlet from said assembly, a second check valve interposed between the discharge side of said constantly rotating emergency pump and the outlet from said assembly, a transfer valve effective when operated to place the discharge side of said emergency pump in communication with the inlet side of said primary pump, motive means for operating said transfer valve, said motive means comprising a piston connected with said transfer valve and responsive to the occurrence of a predetermined value of pressure in communication with the discharge side of said primary pump effective to open said transfer valve and place the discharge side of said stand-by pump in communication with the inlet side of said primary pump, whereupon said second check valve is closed and communication is shut off between the discharge side of said primary pump and said emergency pump, said primary pump then functioning to deliver pressure to the main outlet of said assembly, said piston motive means being further operative in response to a predetermined drop in the pressure in communication with the discharge side of said primary pump to cause said transfer valve to close and said stand-by pump to deliver liquid under pressure through said second check valve to the main outlet of said assembly, said pressure delivered by said emergency pump being further effective to cause the closing of said first check valve to prevent the flow of liquid to said primary pump for said emergency pump.

2,665,638
GEAR PUMP
John A. Lauck, Shaker Heights, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application October 21, 1949, Serial No. 122,786
8 Claims. (Cl. 103—4)

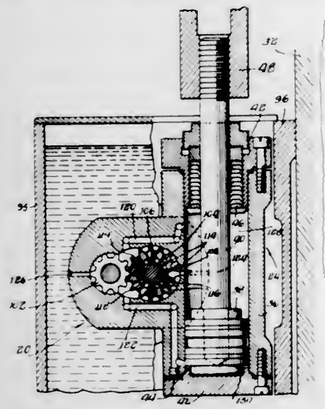


1. A driving mechanism including an elongated quill shaft, a plurality of rotatable elements mounted on said quill shaft in axially spaced relation, each of said rotatable elements having a journal member associated therewith and fixed thereto, each of said journal members having an internally splined portion, a plurality of peripherally splined portions formed on said quill shaft and located so as to be engaged by the splined portions of said journal members to form driving connections therewith, and each of said journal members having a shear section formed therein and located between the driving connection and the rotatable element whereby upon occurrence of a predetermined excessive torque on a particular rotatable element, the shear section of its associated journal member will shear, thereby separating the splined portion of said journal member from the rotatable element.

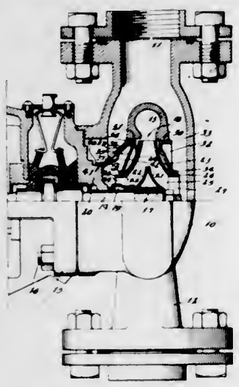
2,665,639
PUMP STRUCTURE
Ernest J. Svenson, Rockford, Ill., assignor to Odin Corporation, Chicago, Ill., a corporation of Illinois
Original application May 3, 1939, Serial No. 271,444. Divided and this application November 7, 1946, Serial No. 708,340
7 Claims. (Cl. 103—42)

1. A reversible pump for pumping fluid to and from a source of variable capacity, said pump comprising a casing, a plurality of cooperating and relatively rotating fluid pressure generating members therein, inlet and exhaust passageways in the casing communicating with said members, auxiliary passage means providing a fluid path communicating through the casing with the path of rotation of at least one of said members in the pressure zone thereof, a fluid reservoir communi-

cating with said auxiliary passage means, and means subjecting said auxiliary passage means to variations in fluid pressure in the path of rotation of the member with which the passage means communicates whereby to modify the fluid volumes exhausted from and delivered to said source by said members.

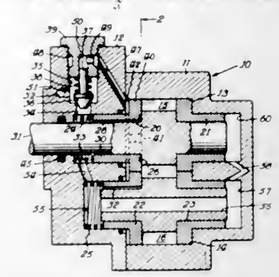


2,665,640
CENTRIFUGAL PUMP
Harold A. Lockhart, Des Plaines, Ill., assignor to Bell & Gossett Company, Morton Grove, Ill., a corporation of Illinois
Application January 5, 1950, Serial No. 136,879
8 Claims. (Cl. 103—104)



5. A centrifugal pump comprising a casing having a side opening and a volute chamber provided with an axial bore and including an annular opening connecting the chamber and bore, a member closing the side opening and having an annular shoulder, a shaft journaled in the member in coaxial relation to the bore, an impeller including peripheral outlets keyed to the shaft and having an outer shroud ring whose radially inward portion is spaced from the shaft to define the eye of the pump, the peripheral outlets of the impeller being operably related to the annular opening, a closure ring spaced from and generally conforming to the shape of the shroud ring to define therewith a shallow, annular channel whose outer end communicates with the annular opening, the closure ring having an annular outer flange fitting the bore to provide a rim seal for the impeller and the radially inward portion of the closure ring encircling the inward portion of the shroud ring in spaced relation thereto, and a perforated, annular carrier supported on the shoulder and having support relation to the outer flange of the closure ring, the peripheral diameter of the outer flange being not less than that of the impeller.

2,665,641
PUMP, PRESSURE LOADED, WITH DIFFERENTIAL VALVE
John Alfred Lauck, Shaker Heights, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application June 18, 1949, Serial No. 99,946
10 Claims. (Cl. 103—126)

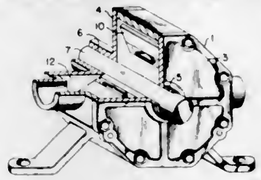


1. In a liquid pressure-generating pump of the type including a housing containing intermeshing gears, a pressure loadable bushing, a radially extending inner flange portion on said bushing having a first terminal area engageable with a gear side face in pumping seal relation, a second rear surface area on said bushing responsive to liquid pressure for urging said flange in the direction of said gear side face, an outwardly extending tubular portion on said bushing having a smaller diameter than that of said radial flange portion and terminating in a third pressure responsive surface area of said bushing, said third area being also effective in response to liquid pressure to urge said flange in pumping seal direction with said gear side face, means defining a restricted flow path for directing pressure liquid generated by said gears into fluid pressure communication with said second and with said third pressure responsive areas, and means responsive to the value of the pressure acting on said second and third pressure responsive surface areas effective to restrict the value of the pressure acting on said third pressure responsive surface area to a selected, predetermined level below that of the pressure in communication with said second surface area of said flange.

2,665,642
ROTARY PUMP
Harold E. De Ment, Decatur, and Herschel L. Wisnasky, Forsyth, Ill., assignors to Tryco Manufacturing Co., Inc., Decatur, Ill., a corporation of Illinois
Application September 22, 1951, Serial No. 247,786
1 Claim. (Cl. 103—135)

A rotary pump comprising a housing shaped to define a horizontal central cylinder, a shaft bearing axially eccentric at each end thereof, and a pumping blade supporting shaft operable to rotate eccentrically in said bearings to produce a pumping action, a rotary blade support housing, fixed on said shaft and provided with blade slots disposed in angular position with said shaft,

pump blades slidably housed in said angular slots, each respectively, for an outward urge by centrifugal force when said pump is running and a spring housed under said blades each respectively, said spring provided with a central body dip and the bottom center of each of said angular slots pocketed, to hold said spring dip in center, and an intake and opposed outlet pipe connection with said housing, said spring provided with bottom terminal coils and outwardly urging cross fingers each also provided with terminal coils to make the spring longer lasting for wear.



2,665,643
WELL PUMP FILTER ATTACHMENT
Haskell M. Greene, Whittier, Calif.
Application January 24, 1951, Serial No. 207,627
12 Claims. (Cl. 103—203)



1. A well pump filter device comprising a body adapted to be positioned in a well with a pump and containing a vertically extending chamber through which fluid taken from the well by the pump is passed, a mobile mass of interengaging filter particles in said chamber, means directing well fluid through said mass of particles in the chamber and causing agitation of the particles by the fluid flow, and a fluid outlet tube projecting downwardly into said chamber and through which the fluid is discharged therefrom, said outlet tube terminating downwardly at a location above the bottom of the particle mass in its condition of repose.

2,665,644
WELL PUMP FILTER
Norman C. Wells, Long Beach, Calif., assignor to Agate Corporation, Los Angeles, Calif., a corporation of California
Application January 25, 1952, Serial No. 268,258
9 Claims. (Cl. 103—203)

1. A well fluid separator comprising a body containing a chamber and adapted to be carried beneath a well pump, means forming an inlet admitting liquid and gaseous well fluid into said chamber, means within the body acting to separate gases from the well liquid, said chamber having an upper gas outlet means and spaced therebelow a liquid outlet communicable with the pump, the chamber being formed to maintain an enclosed and extended gas column above the surface of the liquid going to the outlet, and valve means imposing predetermined back pressure on the gas escape through said gas outlet means, said predetermined back pressure being sufficiently great to assure the maintenance of said gas column in the chamber, and being sufficiently small to maintain the liquid level in the chamber above said liquid outlet to thus assure the maintenance of a liquid seal at and against gas escape through said liquid outlet.



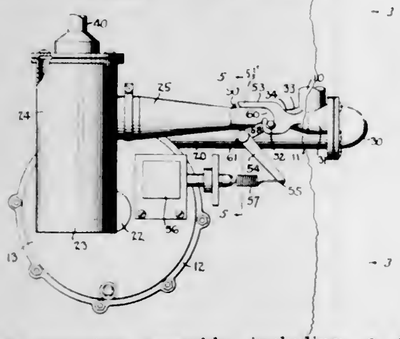
2,665,645
WELL PUMP GAS AND SAND CONTROL FILTER
Norman C. Wells, Long Beach, Calif., assignor to Agate Corporation, Los Angeles, Calif., a corporation of California
Application January 25, 1952, Serial No. 268,259
17 Claims. (Cl. 103—203)



1. A well pump filter device comprising a tubular body containing a vertically extending chamber and adapted to be carried beneath a well pump, means forming an inlet admitting well fluid into the chamber, filter means in the path of fluid flow through the chamber, said filter means comprising a mobile and vertically dis-

placeable mass of interengaging filter particles, and a liquid outlet tube extending downwardly within the chamber at a location horizontally offset from the center thereof and containing a liquid outlet passage leading upwardly from the chamber to the pump.

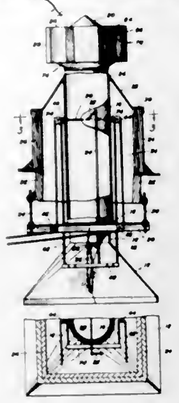
2,665,646
PUMPING SYSTEM CONTROL FOR WASHING MACHINES
William R. Garrett, Walter E. Liljestrand, and Henry B. Young, Houston, Tex., assignors to Mission Manufacturing Company, Houston, Tex., a corporation of Texas
Application May 1, 1950, Serial No. 159,198
3 Claims. (Cl. 103—262)



1. A pumping assembly including, a fluid pump, a discharge conduit extending from the pump outlet, a return line extending from the outer end of the conduit back to the pump inlet, a flexible tubular section connected in and forming part of the discharge conduit and having a portion thereof reduced to provide a Venturi throat within the conduit, a jet nozzle mounted in the conduit between the Venturi throat and the pump outlet whereby fluid discharging from the nozzle is directed through the Venturi throat, a fluid line extending from the discharge conduit at a point adjacent the jet nozzle, a fixed anvil member secured to the exterior of the conduit and overlying a portion of the exterior surface of the flexible section, a depending bracket on said anvil member having a socket therein, and a bell crank lever having the extremity of one arm pivotally engaged within the socket of the bracket whereby said arm may undergo a swinging movement, and a pressure applying member secured to the bell crank lever and underlying that portion of the flexible section which is reduced and located diametrically opposite the anvil member, swinging of the bell crank lever resulting in applying a pressure to the tubular section to collapse the same and close the bore thereof.

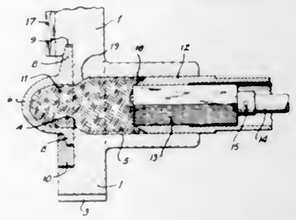
2,665,647
SMOKE JACK FOR DIESEL LOCOMOTIVES
Harold Knutson and Harold G. Knutson, Chicago, Ill.
Application November 12, 1949, Serial No. 126,854
3 Claims. (Cl. 104—52)

1. In a smoke jack, a movable stack section having a downwardly flaring hood at the bottom thereof, a fixed stack section in which the upper end of the movable stack is slidable, a damper in the fixed stack section, a crank arm for the damper extending to the outside of the fixed stack, a rod connected at its upper end to the outer end of the crank arm, the lower end of the rod extending downwardly in the path of the movable hood but spaced from the hood in its lowered position so that the hood must be raised a predetermined amount before the end



of the arm is engaged, and means to raise and lower the hood thereby engaging the rod to close the damper when the movable hood is raised a predetermined amount.

2,665,648
PRODUCTION OF PLASTIC MASSES
Clarence W. Vogt, Norwalk, Conn.
Application May 16, 1949, Serial No. 93,599
6 Claims. (Cl. 107—15)

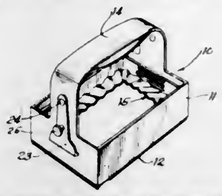


1. In apparatus for forming masses of plastic material, a molding cavity, a member defining a forming aperture at the opening to said molding cavity, said forming aperture having a smaller cross sectional area than the cross sectional area of said cavity, a first piston member in said molding cavity and mounted for sliding movement therein, said first piston member being formed with a bore having a shape and area equal to that of the forming aperture, a second piston member mounted for sliding movement within the bore of said first piston member and extensible through said forming aperture, and means for actuating said piston members simultaneously and independently.

2,665,649
DEVICE FOR CUTTING AND FORMING MEAT PATTIES AND THE LIKE
Dominec J. Cesare, Chicago, Ill.
Application March 20, 1952, Serial No. 277,615
3 Claims. (Cl. 107—47)

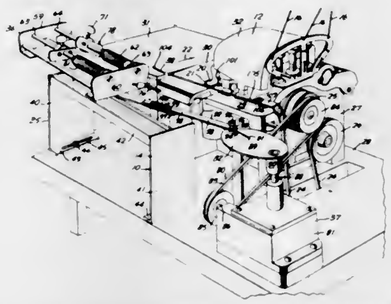
1. A patty-making implement of the class described comprising a cutting member having a vertically disposed wall, the lower edge of the wall having a sharpened edge for severing the dough, a die guided by and positioned within said wall for vertical adjustment with respect to said edge,

said die having an inwardly extending working face also inclined upwardly toward the vertical axis of the die for compressing and sealing the cut edges of the dough, and means for adjustably setting the position of said face relatively to said edge comprising at least a pair of latches secured to opposite points of said member, each



latch having a horizontally disposed elongated lip and a plurality of sets of parallelly disposed elongated apertures at correspondingly opposite points of said die, said latches being arranged for movement to engage and disengage said lips with respect to said apertures to secure said die and member in a predetermined adjusted relation.

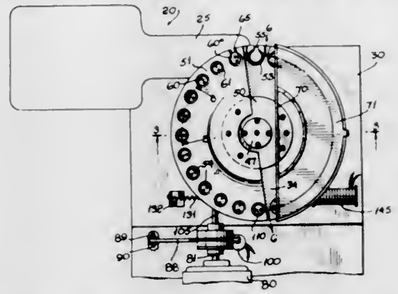
2,665,650
SCALLOPING DEVICE
Edward Lepow, Far Rockaway, N. Y., assignor to Home Curtain Corp., Far Rockaway, N. Y., a corporation of New York
Application March 11, 1949, Serial No. 80,935
3 Claims. (Cl. 112—102)



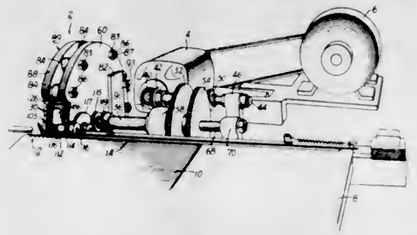
1. A fabric reciprocating means adapted to direct a fabric to a sewing machine particularly adapted to cooperate with said reciprocating means to effect a scalloped edge thereon comprising: a carriage element and a reciprocator element; said reciprocator element including a power take off driven in predetermined synchronism with said sewing machine, a speed reducer, a crank and a connecting bar; said carriage element including reciprocating means accommodating a strip of material upon an edge of which the scalloping is formed; said connecting bar being connected at one end thereof to said crank and at the other end thereof to said reciprocating means; whereby movement of said power take off is transmitted to result in the lateral displacement of said strip with respect to the principal axis of said strip by said reciprocating means.

2,665,651
BUTTON FEEDING MECHANISM FOR BUTTON SEWING MACHINES
Leo Eagle, Jackson Heights, N. Y.
Application October 6, 1952, Serial No. 313,343
9 Claims. (Cl. 112—113)

1. A button feeding mechanism for use with a button sewing machine comprising a feed disk having a uniformly spaced series of button receiving openings formed adjacent the edge of the disk, means to rotate said disk intermittently so as to advance each button receiving opening to the sewing site of said sewing machine, means to orient each button disposed in said openings before it arrives at said sewing site, said last-named means comprising a post having a plurality of pins formed at one end thereof, said pins being adapted to enter the buttonholes of each button for urging the button into a predetermined position in respect to the orientation of its buttonholes, means to rotate said post for first bringing the pins thereof into alignment with and enter the buttonholes and then to rotate the button into said predetermined position, and means to actuate said disk vertically for bringing the properly oriented button to a piece of fabric on which the button is to be sewn, said means to rotate said post being operative on a button preceding the one being sewn and during the time that it is sewn.

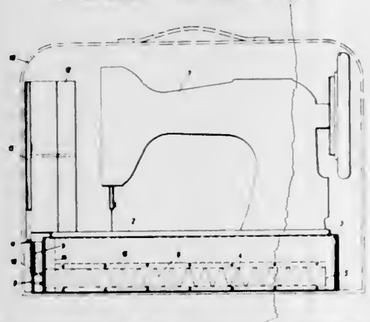


2,665,652
LACING APPARATUS
James C. Macy, Westfield, and James J. Kusiv, Newark, N. J., assignors, by mesne assignments, to Universal Winding Company, Providence, R. I., a corporation of Massachusetts
Application May 9, 1950, Serial No. 160,918
18 Claims. (Cl. 112—172)



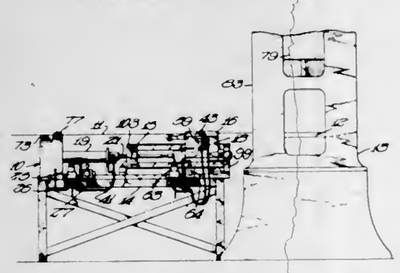
1. In apparatus of the class described for forming a lacing or the like into loops on a work piece, the combination of, a needle which extends arcuately and is adapted to pass through the work piece with the lacing or the like attached to its trailing end, a needle drum means by which said needle is carried and which is adapted to impart positive movement to the needle, drum means having a leading edge portion disposed adjacent the trailing end of said needle and a trailing edge portion at the opposite end thereof and a cylinder-like lacing supporting surface portion between said end portions upon which the lacing is wound and then rotates with the needle, and loop stripping means adjacent said trailing edge portion to strip an individual turn of the lacing from said drum means.

2,665,653
PORTABLE SEWING MACHINE
Heinrich Theenhaüsen, Bielefeld, Germany, assignor to Anker-Werke A. G., Bielefeld, Germany, a corporation of Germany
Application August 10, 1950, Serial No. 178,585
Claims priority, application Germany January 16, 1950
6 Claims. (Cl. 112—260)



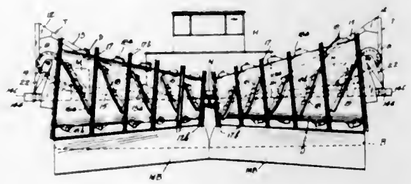
1. A portable sewing machine, comprising a box-like base structure, a frame-shaped drawer structure having a front plate and having two mutually spaced and parallel slide bars firmly secured to said front plate and in sliding engagement with said base structure, an accessory container hinged to said front plate and having a hinge axis perpendicular to the sliding direction of said drawer structure so as to be tiltable between a vertical inactive position and a horizontal active position, said accessory container having a side wall in touch with the top surface of said base structure when said drawer structure is moved into said base structure and said container in its vertical position, whereby said container can drop into the frame space of said drawer structure to the horizontal container position when said drawer structure is pulled out of said base structure.

2,665,654
FEED MECHANISM AND CONTROL FOR CONTINUOUS STOCK MATERIAL
George Albert Lyon, Detroit, Mich.
Application October 26, 1949, Serial No. 123,730
5 Claims. (Cl. 113—38)



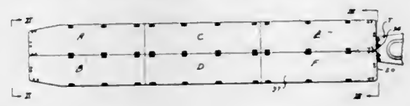
1. In a feeding mechanism and in combination with a press having a vertically movable cushion and head, supporting structure means carried by said supporting structure for feeding stock to the press comprising a table and gripping means thereon for gripping the stock, means for moving the gripping means and table toward and from the press, two fluid valves controlling movement of the gripping means and table toward and from the press, a third fluid valve controlling engagement of said gripping means with the stock, a separate solenoid operatively connected with each of said valves, to operate the same, and control means for said solenoids and valves energizing said solenoids in a predetermined sequence by operation of said press and feeding mechanism comprising two spaced switches on the press, each being connected with one of said solenoids to effect the sequential energization thereof, and the operation of said two fluid valves, a third switch on said supporting structure and connected with the solenoid for operating said third fluid valve, a cam movable with the cushion and head of the press to engage said first two switches in a predetermined sequence and energize the associated solenoids at predetermined points in the cycle of operation of said press, another switch on said press closed upon extreme retractable movement of the cushion and head and controlling energization of the working cycle of said press, a switch operating member on said table for operating said third switch and energizing the solenoid associated therewith at the end of the return stroke of said table to effect gripping of the stock, and a further switch on said supporting structure closed by a switch actuator on said table upon movement of said gripping means to an extreme advance position, said further switch having its contacts connected in series with the contacts of said last mentioned switch on the press for energizing the working cycle of the press upon movement of the gripping means to the extreme end of the feeding stroke thereof.

2,665,655
MACHINE FOR DISINTEGRATING AND REMOVING ICE TO FORM NAVIGATION CHANNELS
George R. Brown and Kenneth R. Larson, St. Paul, Minn.
Application July 12, 1950, Serial No. 173,452
5 Claims. (Cl. 114—42)



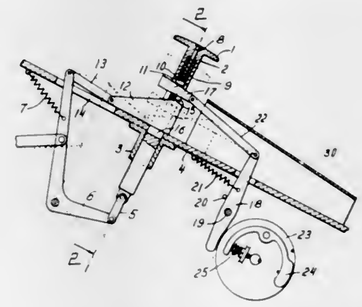
1. In apparatus for disintegrating and removing ice from a body of water to form a navigation channel, a pair of large power driven rotary drums disposed in end to end relation, structure for mounting said drums on the forward end of a boat or propelled floating medium, said drums being disposed transversely of the longitudinal center line of the boat and tapering substantially from their outer ends to the central portion of said structure, the undersides of said drums being disposed below the bottom of the maximum ice formation, mechanism disposed upon the peripheries of said drums for cutting and disintegrating a stratum of ice and for conveying the disintegrated ice to submerge the pieces thereof beneath said drums and to simultaneously by screw-conveyor action convey said pieces laterally to the sides of the boat on which said drums are mounted and mechanism disposed rearwardly of said drums and below the axis thereof for cooperating in said conveying action and for discharging the pieces of ice forcibly below the solid stratum at the sides of the boat during travel.

2,665,656
INTEGRATED BARGE TOW AND BARGES FOR USE AS COMPONENT VESSELS THEREOF
Boyce Williamson, Birmingham, Ala., assignor to The Ingalls Shipbuilding Corporation, a corporation of Delaware
Application June 22, 1951, Serial No. 232,992
8 Claims. (Cl. 114—235)



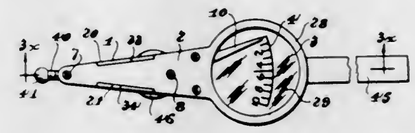
1. In an integrated tow embodying at least four barges each having a substantially rectangular mid-ships section formed of side and bottom plates and disposed two abreast and in tandem, inboard bow corners for the lead barges comprising upwardly sloping bottom plates, substantially vertical inboard bow side plates joining the upwardly sloping bottom plates and disposed substantially parallel to the side plates of the mid-ships section, outboard bow corners for the lead barges comprising upwardly sloping bottom plates, inwardly directed bow side plates joined along their aft ends to the outboard side plates of the mid-ships section and adjacent their lower edges of the adjacent bottom bow plates, sterns for each trailing barge embodying upwardly directed stern bottom plates, and inwardly directed stern side plates joined to the adjacent side plates of the mid-ships section and to the stern bottom plates.

2,665,657
SPEED CONTROLLED WARNING SIGNAL
David Dasso, Lima, Peru
Application November 28, 1949, Serial No. 129,800
9 Claims. (Cl. 116—57)



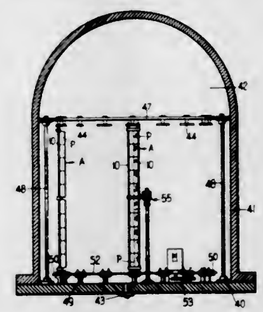
1. In a speed-responsive signal for automobiles and the like, the combination of a speed-controlling member adapted to be engaged and shifted by the driver to control the speed of the vehicle, a signal member associated with said speed-controlling member and at speeds less than a predetermined speed lying wholly back of the surface of said speed-controlling device at the location engaged by the operator, a speed-responsive device, means for operating said device at speeds proportional to the speed of the vehicle, connections between said signal member and said speed-responsive device for projecting said signal member beyond said surface when the vehicle exceeds said predetermined speed.

2,665,658
SURFACE TEST INDICATOR
Gerald C. Welch, Rochester, N. Y.
Application October 5, 1949, Serial No. 119,626
7 Claims. (Cl. 116—129)



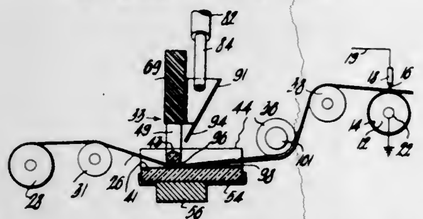
1. A housing for an indicator having a tapered web at one end of the housing, an upwardly extending flange on each side of the web, a tongue projecting upwardly from each of said flanges, a circular flange forming a rim at the other end of the housing, a cover plate for said housing having a tapered plate at one end thereof, a recess on each edge of said tapered plate adapted to receive and engage with the tongue on the flanges of said housing, and a circular rim at the other end of the cover plate integral therewith and lying in the plane of said plate and adapted to engage on the circular rim of the housing.

2,665,659
APPARATUS FOR COATING BY THERMAL VAPORIZATION
James C. Ogle, Jr., Tarentum, Pa., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Continuation of application Serial No. 85,124, April 2, 1949. This application April 24, 1952, Serial No. 284,160
10 Claims. (Cl. 118—49)



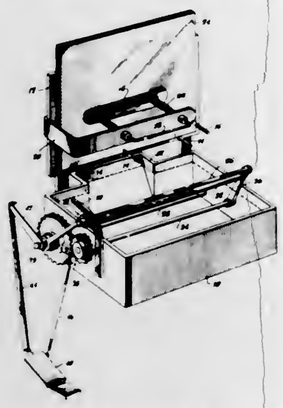
1. In combination with a vacuum chamber having a supporting surface and a housing fitting upon said surface, said chamber including thermal evaporating means, of means located within the chamber and carried by the supporting surface thereof for removably supporting a plurality of article-carrying portable racks in predetermined spaced relationship within the chamber, said rack supporting means comprising rotatable socketed support means for releasably receiving and supporting one end portion of said portable racks, said rack supporting means also including rotatively mounted support means engageable with the other end portion of the portable racks for supporting the same for rotative movement within the chamber, said rotatively mounted support means being positioned in alignment respectively with the rotatable socketed support means, and means associated with said rotatively mounted support means for causing rotative movement thereof.

2,665,660
DEVICE FOR APPLYING LIQUID TO SHEETS OR WEBS
Roger G. Olden, Princeton, N. J., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application June 29, 1950, Serial No. 171,195
4 Claims. (Cl. 118—122)



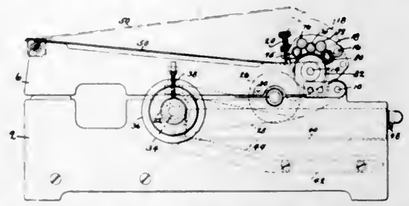
4. Web moistening apparatus which comprises: a liquid impervious plate member; a liquid impervious rod member conforming to said plate along a line and spaced from said plate a distance such as to accommodate a web substantially tightly; means for depositing a liquid on said web adjacent said line of contact, and means for passing said web between said rod and plate such that said web and said rod define a capillary space, said web being adapted to define a smaller angle with respect to said plate at one side of said line than on the other side of said line.

2,665,661
PASTE APPLICATOR FOR PAPER BAG SLEEVES
Robert F. Searle, Mobile, Ala., assignor to Arkell and Smiths, a corporation of New York
Application August 18, 1950, Serial No. 180,133
4 Claims. (Cl. 118—243)



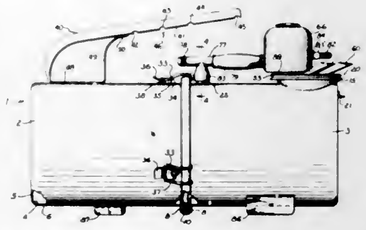
4. A machine for applying adhesive to a sheet of material for forming a sleeve in the valve of a multiwall paper bag comprising a trough to hold adhesive for application to said material, a plate mounted on one side of said trough, means for holding a sheet of sleeve forming material against said plate, a rod pivotally mounted on the trough, means positioned in said trough for supplying a continuous line of adhesive along substantially the entire length of the rod but only on a minor portion of the surface of said rod and on the side removed from said plate, means for swinging said rod between said adhesive supplying means and sleeve-forming material and for positively forcing said rod against the said adhesive supplying means and material on the plate, and means for rolling said rod over as it moves from the adhesive supplying means to bring the side of the rod which has the adhesive into contact with the material so as to stamp a continuous line of freshly transferred adhesive across the material.

2,665,662
COATING MACHINE FOR SHEET MATERIAL
Robert L. Richmond, Bronxville, and Louis A. Roth, New Hyde Park, N. Y., assignors to Potdevin Machine Company, Brooklyn, N. Y., a corporation of New York
Application January 13, 1951, Serial No. 205,844
7 Claims. (Cl. 118—246)



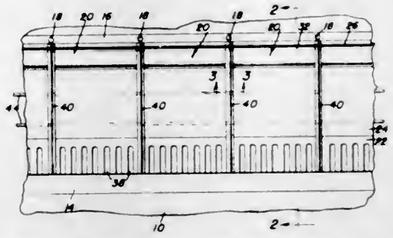
1. A coating machine comprising, in combination, a pair of opposed side frames; a pair of arms pivotally mounted at their rear ends on said frames; a tank roller removably journalled in said arms intermediate the ends of the arms, the outer ends of each arm being forked; a cam at the outer end of each arm straddled by the forked end of the arms whereby abnormal raising of the roller is prevented; means for independently adjusting the said arms relatively to their respective cams and means for rotating said cams simultaneously thereby to effect a bodily raising or lowering of the tank roller.

2,665,663
SUSPENDED MILKER
Emanuel Rawson, Chicago, Ill., assignor, by mesne assignments, to Package Machinery Company, a corporation of Massachusetts
Application January 11, 1949, Serial No. 70,300
8 Claims. (Cl. 119—14.4)



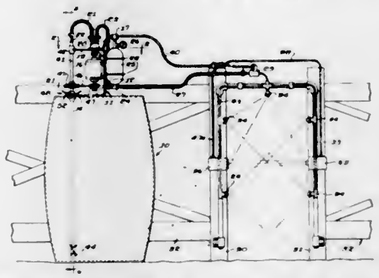
1. A milk receptacle comprising a cylindrical body open at one end and having a pour-out opening in the cylinder shaped portion of the body, a cover for said opening, said cover having milk line nipples extending therefrom, a milking pulsator having means for connection to teat cups, means for releasably mounting said pulsator on the cover, a vacuum line receiving conduit operatively connected to the pulsator, a pair of cooperating plug-in type vacuum type connector parts mounted one on the vacuum line conduit of the pulsator and one on the cylindrical body adjacent to the open end thereof, said connector parts being separable from one another by removal of the pulsator from the cover, and a check valve mounted on that connector part which is mounted on the cylindrical body and remaining with that last mentioned connector part upon separation of the two connector parts.

2,665,664
PAD FOR ANIMAL STALLS
Leonard L. Benjamin, Cuba, N. Y., assignor of one-third to Donald D. Benjamin, Cuba, and one-third to Wesley W. Rasey, Olean, N. Y.
Application September 26, 1952, Serial No. 311,628
1 Claim. (Cl. 119—28)



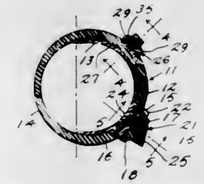
An animal barn comprising: a concrete floor having a gutter therein, an integral stanchion rail rising from the floor in spaced parallelism with the gutter and having sockets therein, a series of elongated resilient pads on the floor extending between the gutter and the stanchion rail, depending anchoring lips on one end of the pads engaged in the gutter, upstanding flanges on the other ends of said pads abutting the stanchion rail, detents on said flanges engaged in the sockets, horizontal metallic bars mounted on the floor between the pads and rising thereabove, metallic rods passing transversely through the pads and the bars, and partition members mounted on the upper portions of the bars and overlying the longitudinal marginal portions of the pads and defining stalls.

2,665,665
AUTOMATIC LIVESTOCK SPRAYER
Grover Jones, Arkansas City, Ark.
Application January 2, 1953, Serial No. 329,283
3 Claims. (Cl. 119—159)



1. In combination, a container adapted to hold a quantity of liquid disinfectant for livestock, there being an opening in the top of said container, a bung arranged in engagement with said opening and provided with divergent wings, a bushing positioned in said bung, cooperating means on said bushing and bung, a U-shaped bracket arranged on the top of said container and including a vertically disposed web and a pair of spaced parallel horizontally disposed arms, a motor connected to said web and adapted to be connected to a source of electrical energy, a pump operated by said motor and arranged thereabove, a bearing connected to the upper of said arms, a hollow vertically disposed tube extending into said container, a hose connecting the upper end of said tube to said pump, a hollow shaft rotatably mounted in said bearing and positioned on said tube, belt and pulley means connecting said motor to said shaft, a gate including spaced parallel vertically disposed beams, conduits connected to said beams and arranged contiguous thereto, a hose connecting said pump to said conduits, a solenoid valve connected to said conduits, a storage tank arranged in communication with said conduits and connected to said web, a pressure switch operated by the pressure in said storage tank for causing actuation of said motor and pump, an electric lamp connected to one of said beams, and a photoelectric cell arranged in opposed relation with respect to said lamp and mounted on the other of said beams.

2,665,666
FINGER MOUNTED ERASER
Glenn E. Hooper, Springfield, Mo.
Application March 3, 1952, Serial No. 274,547
6 Claims. (Cl. 120—37)

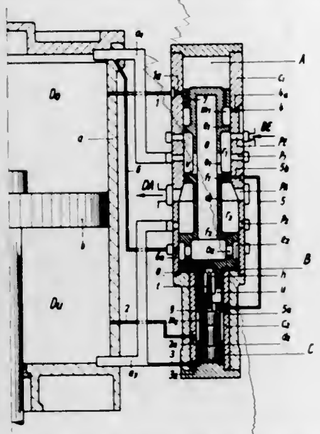


1. A finger mounted eraser comprising a flexible finger engaging stall, an eraser element, and connecting means demountably connecting the eraser element to the finger stall for supporting the eraser element on the outer side of the finger stall, said finger stall including a hard rubber portion to which the connecting means is secured and an elastic portion adapted to grip the finger for maintaining the finger stall thereon.

2,665,667
RODLESS SLIDE VALVE REGULATING DEVICE
Fritz Tolkien, Hannover, Germany
Application April 14, 1950, Serial No. 155,869
17 Claims. (Cl. 121—108)

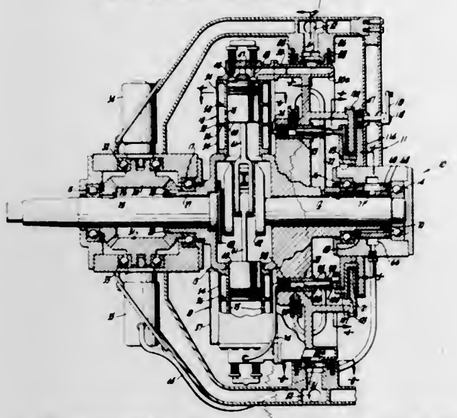
1. A rodless slide valve regulating device for controlling the admission and exhaust of motive fluid to and from the cylinder of a double acting piston engine comprising a valve chest having a fresh motive fluid inlet in its wall and a first main actuating chamber, a differential piston mounted so as to be slidable in opposite directions in said valve chest and constituting a main slide valve, an auxiliary slide valve mounted in said valve chest and slidable therein independently of said main slide valve, a lost motion coupling operatively connecting said main and auxiliary slide valves, means for operating said main and auxiliary slide valves for effecting the regulated admission of motive fluid to the working cylinder and the exhaust therefrom to atmosphere, said means including a chamber confined between said main slide valve and the inner wall of said valve chest, borings in the wall of said valve chest permanently communicating with the fresh motive fluid inlet and adapted to be uncovered during reverse opera-

tion of said main slide valve to bring said chamber into communication with said motive fluid inlet, and borings in the head of said slide valve connecting said chamber with said first main



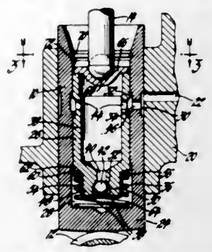
actuating chamber, whereby after partial reversal of said main slide valve in one direction said main actuating chamber is connected through said borings and said chamber directly to said motive fluid inlet.

2,665,668
ENGINE
Patrick C. Ward, San Francisco, Calif.
Application March 22, 1949, Serial No. 82,841
3 Claims. (Cl. 123—44)



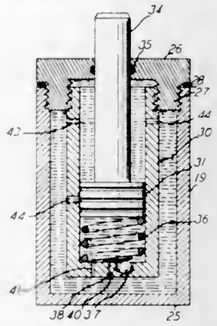
1. A compression ignition engine comprising a frame, a crankshaft rotatable therein, a plurality of cylinders disposed radially of said crankshaft and rotatable relatively thereto and to said frame about the axis of said crankshaft, a piston reciprocable in each said cylinder and having a driving connection with said crankshaft, fuel feed means for each cylinder including a fuel injection pump having a cylinder and a piston reciprocable therein, means for actuating said piston comprising a plurality of cams fixed with respect to said frame, and means for varying the stroke of said piston to throttle said engine, said means comprising a rotatable member, means for rotating the same, and a member shiftable by rotation of said rotatable member and thereby determining the stroke of said piston.

2,665,669
HYDRAULIC LASH ADJUSTER
Lockwood B. Ellis, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 11, 1948, Serial No. 32,404
12 Claims. (Cl. 123—90)



11. In a hydraulic tappet, a cylinder mounted for rotation and reciprocation and provided interiorly thereof with an abutment facing one end of the cylinder, a coil spring disposed within the cylinder and resting on said abutment, a piston slidably fitting said cylinder and terminating at its inner end within said spring, a cup resting on said spring and frictionally coupled thereby for rotation with said cylinder, said piston end bottoming in said cup and having a valve seat spaced from the bottom of the cup, a check valve having a predetermined freedom of movement between said seat and the bottom of said cup, and a member engaging the other end of the piston and restraining its rotation whereby wear of said cup bottom resulting from its rotation on said first named end of the piston tends to compensate for wear of said check valve and seat.

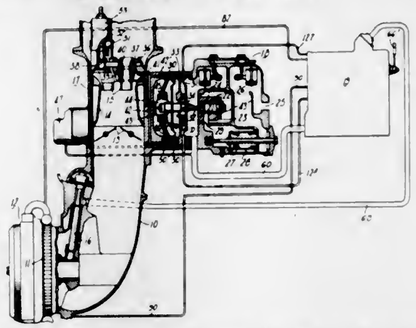
2,665,670
HYDRAULIC VALVE LIFTER
Harold E. Adkins, Albuquerque, N. Mex.
Application October 2, 1950, Serial No. 187,880
2 Claims. (Cl. 123—90)



1. A zero lash self-adjusting hydraulic tappet comprising a first elongated cylindrical barrel closed at the bottom, a second cylindrical barrel of similar shape to the first barrel of less length and smaller diameter to provide a fluid chamber therebetween, said first barrel being internally threaded at the top thereof and said second barrel being externally threaded at the top thereof, a circular cover member having a depending annular portion having an external thread and an internal thread to mate with the first cylinder internal thread and the second cylinder internal thread respectively to thereby support the first and second barrels in a unitary

rigid fluid tight assembly, a piston slidably supported in a substantially fluid tight fit in said second barrel, a stem affixed to said piston and projecting out of the said cover member, means for resiliently urging said piston away from the bottom of the second barrel, a ball check valve in the bottom of the second barrel communicating inwardly into the second barrel from the first barrel, a small bleeder aperture through the bottom of the second barrel, fluid substantially filling the space between the first and second barrels and fluid filling the space between the piston and the bottom of the second barrel and between the piston and the top of the second barrel, and a fluid passage penetrating the lateral wall of the second barrel near the top thereof, whereby said tappet is automatically self-adjusting to zero lash in a valve lifter train and said bleeder aperture compensates for valve stem length lengthening in operation.

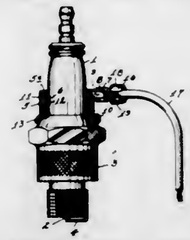
2,665,671
CHARGE FORMING DEVICE OR CARBURETOR
Arthur J. Volz and Henry G. Tarter, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 31, 1948, Serial No. 18,188
15 Claims. (Cl. 123—119)



1. In a fuel metering device for an engine having an intake manifold, fuel metering means adapted to maintain a predetermined normal ratio of fuel-to-air, independently operable valves arranged in parallel and adapted to meter supplementary fuel to the normal supply under high charge pressure and temperature conditions, an element responsive to changes in manifold pressure for controlling one of said valves and another element responsive to changes in manifold temperature for controlling the other of said valves.

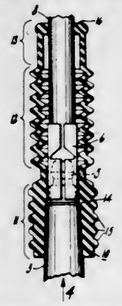
2,665,672
HEATER FOR SPARK PLUGS
Leo C. Coughlin, Toronto, Ontario, Canada
Application April 2, 1952, Serial No. 280,079
8 Claims. (Cl. 123—169)

1. In combination, a spark plug including a metal shell and an insulator mounted in said shell and projecting upwardly therefrom, a collar encircling said insulator above and insulated from said shell, said collar having laterally turned endwise extensions providing aligned lugs, clamping means embracing said lugs for securing said collar on said insulator, said collar having a heat resisting liner, a heating element carried by said collar within said liner and extending lengthwise of said collar in contact with the exterior surface of said insulator, said heating element having one end in contact with one of said lugs, the other end of said heating element being grounded to said metal shell, and a



supply wire leading from a source of electric energy to said heating element.

2,665,673
SPARK PLUG BOOT
Robert C. Woofter, Cortland, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 30, 1952, Serial No. 317,658
5 Claims. (Cl. 123—169)

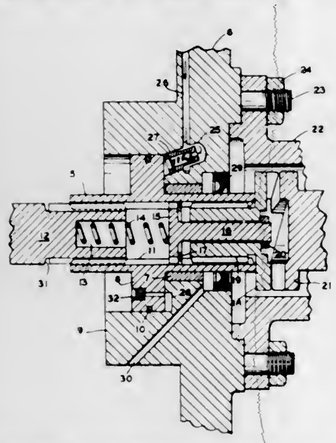


4. The combination with a spark plug having means for securing the plug in the cylinder block of an engine, an insulator element supported thereby and having a connector terminal mounted thereon, and an electrical conductor having a terminal on one end adapted to engage said first-mentioned terminal, of a protecting shield adapted to prevent access of dirt and moisture comprising a casing of insulating material surrounding said terminals and having a part engaging said insulator element with a wall thickness of at least substantially double the wall thickness of the remainder of the casing, said thick walled portion of the casing having external circumferential ribs formed thereon, said casing having another part surrounding and spaced from said terminal elements and adjacent said thick walled portion, said last-named part being corrugated and freely flexible to permit universal bending of said last-named part of the casing, and a third part of the casing surrounding the conductor and spaced therefrom throughout most of its length, said last-named part having an internally extending flange adapted to engage the outer surface of said conductor.

2,665,674
JAW MESHING DEVICE
Charles S. Metsger, Saddle River Township, Bergen County, and Samuel Gilbert, Cedar Grove, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application November 24, 1950, Serial No. 197,456
3 Claims. (Cl. 123—179)

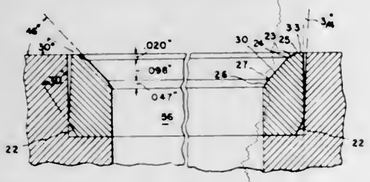
1. In engine starting apparatus, the combination comprising a housing having an axially ex-

tending circumferential flange, a cylindrical member mounted for axial and rotary movement in said housing concentric with said circumferential flange, a radially extending flange on said cylindrical member, said radially extending flange adapted to coact with said circumferential flange to form a piston and cylinder, an engine shaft, means for slidably connecting said cylindrical member to said engine shaft for ro-



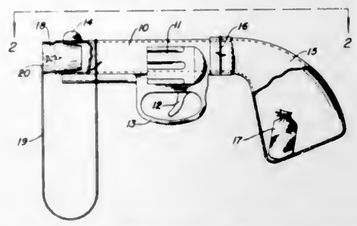
tation with and axial movement relative thereto, an engine jaw secured to said cylindrical member for rotation and axial movement therewith, a starter jaw adapted to be engaged by said engine jaw, spring means for normally biasing said jaws into engagement, and means for supplying fluid pressure to said piston and cylinder upon the engine starting to actuate said piston to overcome said spring bias and move said engine jaw out of engagement.

2,665,675
VALVE SEAT INSERT
Richard H. Sheppard, Hanover, Pa.
Application March 31, 1952, Serial No. 279,592
8 Claims. (Cl. 123—188)



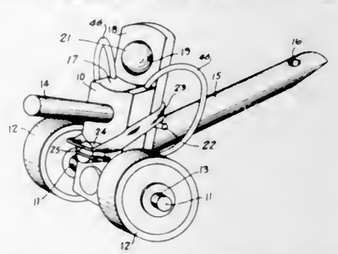
7. The combination with an engine block having a passageway therein to be closed by a valve and having an insert receiving recess coaxial with the passageway, of a valve seat insert firmly anchored at the base of the recess and loosely fitting the recess at the valve seat end to form with the surface of the recess an annular gap of not less than two and one-half thousandths of an inch measured radially at the top, said gap narrowing down toward the solidly anchored bottom end, said insert being of a material having a hardness greater than that of the body of the block, and which will not lose its temper at any normal operating temperature, whereby a distorted valve by reason of the flexibility of the end of the insert having the valve seat, may seat snugly to form a seal on the insert even though the metal of the block is itself distorted.

2,665,676
COMBINED SMOKE SIMULATING AND POPGUN
Edward L. Mobley, Jr., Akron, Ohio, assignor to The Sun Rubber Company, Barberton, Ohio, a corporation of Ohio
Application October 28, 1950, Serial No. 192,745
2 Claims. (Cl. 124—11)



1. A toy gun comprising a tubular barrel, a dischargeable plug inserted in the forward end of said barrel, a rubber-like hollow handgrip secured to the rear end of said barrel so as to form a chamber co-extensive with the length of said barrel and said handgrip, and a compressible bag of relatively coarse mesh containing powdery material carried in said handgrip, said plug and a portion of said powdery material being simultaneously dischargeable from said barrel by compressed air in said chamber produced by compressing said handgrip and said bag.

2,665,677
TOY GUN
Paul Whitlock, Lebanon, Ohio
Application September 22, 1948, Serial No. 50,459
2 Claims. (Cl. 124—17)



1. A toy gun, including a body presenting an upstanding block portion and a substantially right angle extension projecting rearwardly therefrom, a projectile rest on the top of said block portion, a bearing surface interconnecting said body portions merging at its opposite ends with the top of said extension and the base of said block portion, a simulated gun barrel projecting from the front of said block portion below said projectile rest, resilient arms supported by said block portion and extending alongside said projectile rest to yieldingly hold a projectile therebetween, a hammer member loosely resting on said interconnecting bearing surface and extending above the plane of said projectile rest, and resilient means urging said hammer member against the rear of said block portion, said hammer member being retractable rearwardly about the pivot point represented by the intersection of said bearing surface and the base of said block portion for release into striking engagement with the rear of said block portion, the impact of said engagement permitting a slight overtravel of said hammer member pivotally about the upper end of said block portion.

2,665,678
COMPOSITE ARCHERY BOW
Frederick B. Bear, Grayling, Mich., assignor to Bear Archery Company, Grayling, Mich., a corporation of Michigan
Application April 21, 1950, Serial No. 157,213
10 Claims. (Cl. 124—23)



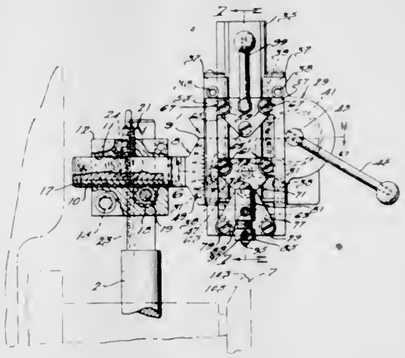
1. An archery bow comprising a riser having dips which meet the back of the riser substantially asymptotically at the ends of the riser, limbs which are wider than thick, each limb comprising a tension element on the back side, a compression element on the face side, an intermediate core element intermediate the compression and core elements, said compression element terminating substantially at the inner end of the dip, said elements being interconnected throughout their interfaces with adhesive, the outer surfaces of the tension and compression elements being approximately parallel at any cross-section throughout substantially the active length of the limb, the tension element comprising a thin layer of resilient material having a modulus of elasticity substantially higher than wood, the core member comprising wood, and the compression element comprising a thin ribbon of resilient material having an elastic yield factor which approximates that of the tension element.

2,665,679
ARCHER'S BOW
Walter L. Gaskell, Ypsilanti, Mich.
Application November 12, 1949, Serial No. 126,826
6 Claims. (Cl. 124—24)



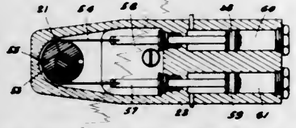
6. In an archer's bow, a handle portion, an arrow rest portion adjacent the handle portion and adapted to support an arrow along a predetermined axis, substantially straight limbs located on opposite transverse sides of said portions, said limbs extending outwardly in opposite longitudinal directions from said portions and being provided with bow string receiving tips aligned with each other in the plane of said axis.

2,665,680
RADIUS DRESSER
Harry H. Gotberg, Detroit, Mich., assignor to Colonial Broach Company, Warren Township, Mich., a corporation of Delaware
Application December 30, 1950, Serial No. 203,667
9 Claims. (Cl. 125—11)



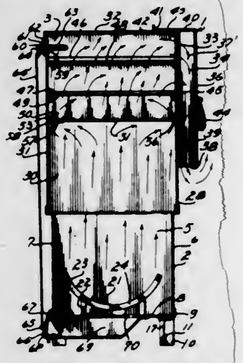
1. A device for dressing the radiused peripheral edge and adjacent flat surface of a grinding wheel, including supporting structure adapted to be mounted adjacent to the grinding wheel, elongate guides carried by said supporting structure, a movable element mounted in said guides on said supporting structure for rectilinear movement in a predetermined direction parallel to the flat surface of the grinding wheel, a pair of parallel spaced links adjacent said element on the side away from said supporting structure, three transversely extending members spaced from each other in the direction of the length of said links, means pivotally connecting each of said members with each of said links, means pivotally connecting two of said members to said movable element, means carried by said third member for carrying and supporting a tool for dressing said grinding wheel, and handle means connected with one of said two members for rotating said members and links on the movable element, whereby a parallelogram linkage arrangement is provided, which, when said handle is actuated, will move said third member and a dressing tool when the latter is connected therewith, so that said dressing tool will travel on a predetermined radius to dress said radiused peripheral edge of the grinding wheel, and whereby said element may thereafter be actuated to cause the tool to dress the flat surface of said grinding wheel, said third member being disposed adjacent one end of said element so that said element will be out of interfering relationship with respect to a grinding wheel being dressed.

2,665,681
TRUING MECHANISM
Frederick S. Haas, Orgonia, and Winthrop Trible, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application February 10, 1951, Serial No. 210,302
5 Claims. (Cl. 125—11)



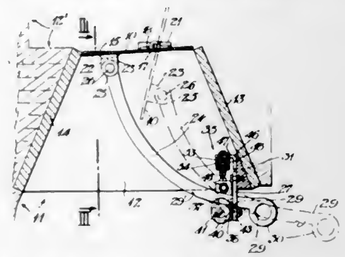
1. In a grinding machine having a support, a grinding wheel spindle housing mounted on said support, and a spindle journaled in said housing adapted to receive interchangeable grinding wheels of different profiles, the combination of separate mechanisms mounted on the housing for truing the respective wheels including separate power operable means connected to each mechanism, a common actuating and control mechanism for said power operable means including a common reversing mechanism therefor, electrically operable means connected to said reversing mechanism including a control relay, separate trip operable means operatively associated with each truing mechanism, and selector means for selectively coupling the power operable means of one truing mechanism to said reversing mechanism and simultaneously coupling the trip operable means associated with said one truing mechanism to said control relay.

2,665,682
KNOCKDOWN BARBECUE OVEN
James Lester Eastep, Kansas City, Mo.
Application December 2, 1949, Serial No. 130,699
2 Claims. (Cl. 126—9)



1. A portable barbecue oven comprising, a housing including a fire pot section having an open top and an oven section having an open bottom removably mounted on the fire pot section and in communication therewith, said oven section having an opening in one side adjacent the upper end thereof providing access to said oven section, racks mounted in the upper portion of the oven section for supporting food to be cooked in position for access through said opening, a baffle in the oven section below the racks and having portions spaced from the sides thereof for passage of heat and smoke from the fire pot section into the oven section above the baffle, a cover having top, side and front walls, means removably mounting the cover on the oven section of the housing with the top and side walls engaged with the oven section above and at the sides of said opening, said side and front walls of the cover extending substantially below said opening with the front wall spaced from the oven section and forming a downwardly opening passage therebetween, said passage being open to the atmosphere at the lower end thereof and having communication adjacent the upper end with said opening in the oven section, and means at the lower end of the cover restricting the downwardly opening passage whereby heat and smoke from the fire pot section will pass upwardly in the oven section around the baffle to cook the food supported on the racks and then outwardly through said opening in the oven section and downwardly through the passage and restricted lower end thereof which retards escape of smoke from the oven section and effects a back pressure therein and aids in retaining moisture in the food being cooked.

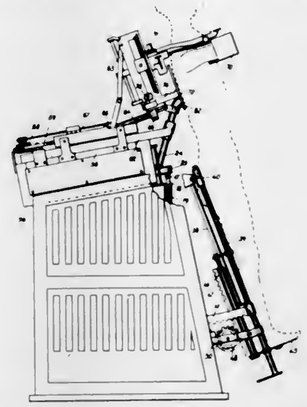
2,665,683
THERMALLY CONTROLLED FIREPLACE DAMPER
Walter B. Snook, Palo Alto, Calif., assignor to W. B. Snook Mfg. Co., Inc., Palo Alto, Calif., a corporation of California
Application October 5, 1948, Serial No. 52,849
6 Claims. (Cl. 126—288)



1. A fireplace structure of the character described comprising a fire box, a flue therefor, a damper in said flue directly above said fire box, means mounting the damper in the flue for swinging between an open position and a closed position and being biased so as normally to swing to open position, a lever secured to said damper for swinging said damper to either position, nonfusible type of thermo-responsive means operable by a relatively slight increase in temperature caused by igniting a fire in said fire box, and latch means for latching said lever when the damper is in closed position operatively connected to said thermo-responsive means for immediately unlatching said lever and opening said damper when a fire has been started in said fire box.

2,665,684
AUTOMATICALLY WORKING ELECTRO-MECHANICAL APPARATUS FOR THE REDUCTION OF VERTEBRAL LUXATIONS AND SUBLUXATIONS
Miguel Llongueras Torras, Barcelona, Spain
Application October 11, 1950, Serial No. 189,644
Claims priority, application Spain June 19, 1950
4 Claims. (Cl. 128—69)

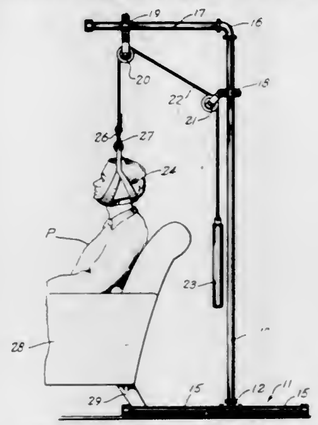
1. An automatically operating electromechanical apparatus for the reduction of vertebral luxations and subluxations comprising a lower element, a general supporting back for a patient at the front side of the apparatus, said supporting back being connected to said lower element in an inclinable relationship, a rest longitudinally slidable on said back, an upper element longitudinally displaceable with respect to said lower element, elastic means biasing the upper element to its forward position and respectively to the lower element, a traction and release device for driving the upper element backwards and to release the same to allow the return thereof to said forward position, an upper ensemble operatively connected to said upper element for combined lateral and longitudinal reciprocating movements to rotate the ends thereof about an upright axis, and for oscillation about a longitudinal axis and for elevation, said upper ensemble including a luxation reducing appliance comprising a reducing head which protrudes from the front side of the apparatus, a supporting frame, a box vertically slideable thereon and adapted to support a



patient standing on said rest and leaning against said back by clamping of the patient's arms in cross position and a longitudinally slidable support for the patient's back, the apparatus further comprising setting means for adjusting the back inclination, rest height and back support position to place the patient under treatment in an initial position with his affected vertebra leaning against said reducing head, operating means to rotate said upper ensemble and automatic control devices for allowing said rotation only at given positions of the upper element with respect to the lower element, so that upon rotation of that upper ensemble the patient's shoulders are rotated about an upright axis, while the patient's feet are standing on said rest, lifting means for said upper ensemble and reducing head, and drive and control means to operate the above elements in a given sequence.

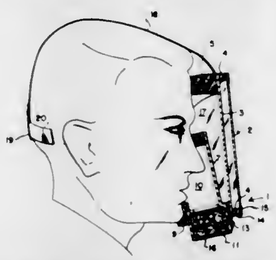
2,665,685
TRACTION DEVICE
Manuel Kaufman, Fresno, Calif.
Application July 30, 1952, Serial No. 301,708
1 Claim. (Cl. 128—75)

A traction device comprising a horizontally disposed base, a vertically disposed standard extending upwardly from said base, said base including a crosspiece embodying a pair of sections arranged in end to end relation with respect to each other, means connecting the ends of said sections together and to the lower end of said standard, a pair of spaced parallel legs extending transversely with respect to the outer ends of said crosspiece and connected thereto, said legs and crosspiece lying in the same plane, supporting means mounted on the upper end of said standard, a horizontally disposed arm extending forwardly from said last named means and interposed between said pair of legs and arranged thereabove, a first and second bracket detachably connected to said arm and standard, first and second pulleys supported by said brackets, said first pulley being arranged above and between said pair of legs, said second pulley being arranged below said first pulley, said pulleys, arm and standard being arranged in the same plane,



a cable trained over said pulleys, a vertically shiftable weight connected to one end of said cable and arranged contiguous to said standard, a horizontally disposed bar connected to the other end of said cable and provided with hooks on its ends, and a head engaging sling arranged in engagement with said hooks, the space between said legs adapted to receive a chair for supporting the person being treated whereby the person's head is directly below said first pulley.

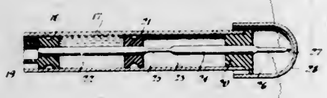
2,665,686
FACE MASK
Edwin E. Wood, Malden, and William A. Hafferty, Charlestown, Mass.
Application March 17, 1952, Serial No. 277,030
9 Claims. (Cl. 128—141)



1. A face mask comprising a transparent flexible plastic wall structure shaped to fit to the contour of an individual's face with spaced inner and outer walls having a peripheral spacing flange sealing the space between the walls, a soft flexible yielding flange sealed around the periphery of the face mask and adapted to be compressed by the periphery of said walls and said spacing flange against the face of the individual for spacing the wall structure of the mask away from the face of the individual and sealing the chamber formed between the face of the individual and the wall structure, a separate nose and mouth cover having a continuous sealing flange lying against the

face and forming a second chamber around the nose and mouth with portions bordering said first chamber and means having an outlet air passage through the bottom of said second chamber.

2,665,687
SYRINGE ASSEMBLY
Frank E. Brown, Burbank, Calif., assignor to Frederick M. Turnbull, Los Angeles, Calif.
Application August 2, 1950, Serial No. 177,239
16 Claims. (Cl. 128—218)



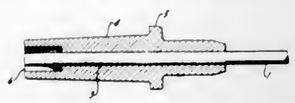
1. In a syringe assembly a tubular member, a pair of stoppers mounted thereby and spaced from each other, said stoppers being formed with openings, a rod extending through said openings to obstruct a flow of fluid through the same, said rod being formed with a pair of spaced portions each providing a by-pass disposable adjacent said stoppers and said rod being shiftable with respect to said stoppers to dispose said portions in the zones of the latter whereby fluid may by-pass said stoppers.

2,665,688
STERILESS SYRINGE AND AN ADAPTABLE NEEDLE
Mildred T. Hyslop, Del Rio, Tex.
Application August 9, 1951, Serial No. 240,995
5 Claims. (Cl. 128—218)



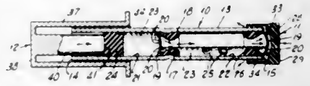
1. A syringe having a cylindrical casing with a base providing a closure in one end and with a longitudinally disposed slot in one side and extended into the base, said base having a laterally positioned socket with tapering side and end surfaces therein and said socket positioned in the side of the base opposite to that in which the slot is positioned, and a needle holder having tapering side and end surfaces and having a needle receiving opening therethrough removably mounted in the socket of the base and positioned whereby a needle held therein is inserted in the casing with a lateral movement and whereby with the holder secured in the socket the needle is positioned on the center line of the casing and is extended through the slot in the base thereof.

2,665,689
NEEDLE ASSEMBLY AND METHOD OF PRODUCING SAID ASSEMBLY
William F. Butler, Oakland, Calif., assignor to Cutter Laboratories, Berkeley, Calif., a corporation of California
Application July 3, 1951, Serial No. 235,051
1 Claim. (Cl. 128—221)



A needle assembly comprising: a stainless steel cannula having a sandblasted outer surface portion; and a plastic hub molded around said cannula about said sandblasted outer surface portion, said hub being formed with a radially extending flange intermediate its ends.

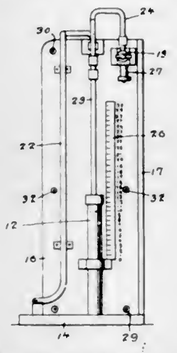
2,665,690
PLURAL-COMPARTMENT ADMIXING CONTAINER OR VIAL
Marshall L. Lockhart, Rutherford, N. J., assignor, by direct and mesne assignments, to The Compule Corporation, Rutherford, N. J., a corporation of New Jersey
Application September 29, 1950, Serial No. 187,501
11 Claims. (Cl. 128—272)



1. A vial for storage of a liquid and another material segregated in separate chambers having a valved intercommunicating passage to permit admixture comprising, in combination, a substantially tubular body, transversely-extending partition means mounted within said body between opposite ends thereof to define from each other a liquid storage chamber and a mixing chamber for storing the other material, self-closing valve means in said partition means openable by a differential in fluid pressure on opposite sides thereof developed by elevated fluid pressure applied from the liquid chamber side of the latter, said valve means being automatically closed by substantial balance of pressures on both sides thereof, means closing off the mixing chamber end of said tubular body while permitting access to mixture contents for withdrawal thereof, and piston plug means closing off the liquid storage chamber end of said tubular body and being adapted to be slid forward in that chamber toward said partition means to expel liquid through the latter into said mixing chamber.

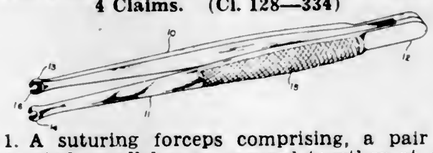
9. A thrust cap for removable sliding mount on the end of a tubular container structure comprising a head of elastic material having a transversely-extending outer face for manual engagement to apply biasing force inwardly and axially thereof, and circumambiently arranged integral means extending from the inner side of said head substantially normal thereto to provide therewith a receiving socket for telescopic sliding reception of an end of such container, the inner surfaces of the bottom of the socket being provided with venting ways leading from the vicinity of the center thereof laterally at least to said circumambiently-arranged means and communicating with the atmosphere externally of said means.

2,665,691
SURGICAL APPARATUS FOR MEASURING AND REGULATING VACUUM PRESSURES
John Ognanovich, Fort Snelling, Minn.
Application December 12, 1951, Serial No. 261,266
1 Claim. (Cl. 128—278)



In a surgical apparatus for measuring and regulating vacuum pressures, a housing including a horizontally disposed base for supporting a pump, a pair of spaced parallel side walls extending upwardly from said base and secured thereto, one of said side walls adapted to have a vertically disposed manometer connected thereto, a horizontally disposed shelf arranged above said base for supporting a container, and a vertically disposed back wall projecting upwardly from said base and connected to said side walls, a tube extending from the container and including a vertically disposed portion, a needle valve connected to the vertically disposed portion of said tube, and a filter connected to the lower end of said vertically disposed portion.

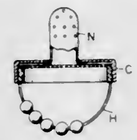
2,665,692
SUTURING FORCEPS
Francis A. L'Esperance, Northampton, Mass.
Application December 10, 1951, Serial No. 260,819
4 Claims. (Cl. 128—334)



1. A suturing forceps comprising, a pair of elongated parallel arms secured together at one end thereof, each of said arms being formed at the opposite end with generally annular jaws having an opening lying along the longitudinal axis of said arms, said jaws being formed with a plurality of matching serrations on mutually directed faces and extending thereacross.

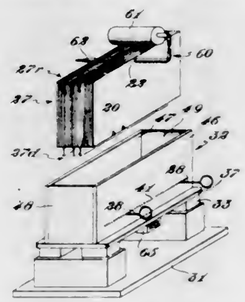
2,665,693
INFANT TEETHING AND FEEDING DEVICE
Pasquo P. Pecora, West Hazleton, Pa., assignor to Pecora's Farm Dairy, West Hazleton, Pa., a partnership
Application August 9, 1952, Serial No. 303,508
2 Claims. (Cl. 128—360)

1. In an infant teething and feeding device, a rubber nipple having a main body portion, a closed end, and an open end with a flange extending outwardly from the main body portion at said open end; said main body portion and closed end being formed with apertures through which food is adapted to be extruded; a disc-like plate having a downwardly depending peripheral skirt and being provided with a central opening adapted to receive said nipple with the flange thereof lying adjacent to the underside of said plate; the said skirt being provided with threads on the inside surface thereof; a second disc-like plate having a downwardly depending peripheral skirt with threads on the outside surface thereof;



the said plates lying in a substantially adjacent relationship with the nipple flange therebetween in clamped fashion, and their respective skirts in threaded engagement; a bail carried by one of said skirts providing a convenient gripping means; and an amusement device mounted on said bail to entice the infant into using said nipple.

2,665,694
CARD SELECTING DEVICE
Calvin N. Mooers and Charlotte Davis Mooers, Cambridge, Mass., assignors, by mesne assignments, to Calvin N. Mooers, Cambridge, Mass.
Application January 3, 1949, Serial No. 68,964
5 Claims. (Cl. 129—16.1)

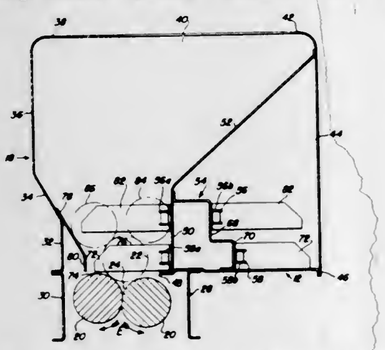


5. A notched card sorting device comprising a receptacle, a base, a resilient support of said receptacle upon said base, a selector bar within said receptacle, means for positioning said bar transversely of said receptacle, and vibratory means for imparting to said receptacle a motion in a plane perpendicular to said bar and having components essentially only in the vertical and horizontal directions of said plane.

2,665,695
EAR-HANDLING MEANS FOR CORNHUSKING MECHANISMS
Wayne E. Slavens, Des Moines, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application June 21, 1950, Serial No. 169,350
13 Claims. (Cl. 130—5)

2. Corn-husking mechanism, comprising: a pair of cooperative husking rolls arranged to receive ears of corn lengthwise in the bite thereof; means movable over and through a path substantially coextensive with the length of the rolls to advance ears therealong, said means including pocket-forming elements providing a plurality of upwardly opening pockets also opening downwardly to the bite of the rolls, each pocket being

of such width, depth and length as to contain at least one ear lengthwise thereof and supported in the bite of the rolls, said pockets being alined lengthwise of the rolls so that at least certain of the ears contained thereby lie in a single row along the bite of the rolls; leveling means for handling a second quantity of ears superimposed directly on the first row, said leveling means including pocket-forming elements providing a plurality of pockets arranged lengthwise over the advancing means opening upwardly and also



opening downwardly to the pockets in the ear-advancing means, certain of said pockets in the leveling means being of such width, length and depth to contain at least one ear lengthwise thereof and resting directly on the first row of ears, and means for confining the second quantity of ears against lateral escape from the pockets of said leveling means; and means for moving the ear-advancing means lengthwise of and relative to both the rolls and the leveling means.

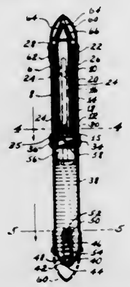
2,665,696

COMBINATION LIPSTICK APPLICATOR AND SHARPENER

Anthonie Elizabeth Weis, South Nyack, N. Y.

Application November 22, 1950, Serial No. 197,076

4 Claims. (Cl. 132—79)



1. A combination lipstick applicator and sharpener comprising a tubular receptacle, a lipstick in said receptacle and axially movable therein, said lipstick being normally tapered at its outer end, a closure cap and lipstick sharpener unit having at one end a cylindrical skirt adapted for slidable and rotatable mounting on the end of said receptacle, said unit being also provided with radially and inwardly projecting ridges formed integrally with and wholly inside the wall of said unit, the inner edges of said ridges being angularly arranged around the axis of said wall and also longitudinally tapered to conform to the normal tapered surface of said lipstick.

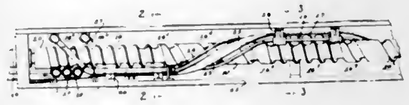
2,665,697

ARTICLE SPRAYING MEANS AND SCREW-TYPE ARTICLE-CONVEYING MECHANISM

John Hohl, Toledo, and Alois F. Trendel, Huron, Ohio, assignors to Owens-Illinois Glass Company, a corporation of Ohio

Original application July 16, 1949, Serial No. 105,126, now Patent No. 2,604,200, dated July 22, 1952. Divided and this application July 9, 1952, Serial No. 297,818

3 Claims. (Cl. 134—65)



1. The combination of a screw-type conveyor having a helical channel formed in its surface and extending along the conveyor, said channel including a portion having a relatively low pitch, an accelerating portion forming a continuation of the low-pitch portion and of gradually increasing pitch throughout its length, and a high-pitch portion forming a continuation of said accelerating portion, the width of the channel along the high-pitch portion being less than that along the low-pitch portion, stationary guide rails extending in a straight line along the low-pitch portion of the channel and having curved portions extending spirally along the conveyor within the range of the high-pitch channel portion, said spiral portion of the guide rails being positioned and shaped to guide hollow articles closed at one end as they advance along the high-pitch portion of the channel and revolve them about the axis of the conveyor from an upright to an inverted position, and means for introducing a cleansing liquid into the said articles while in upright position, said liquid being forceably ejected from the said articles during their inverting movement while traveling along the high-speed portion of the guide rails.

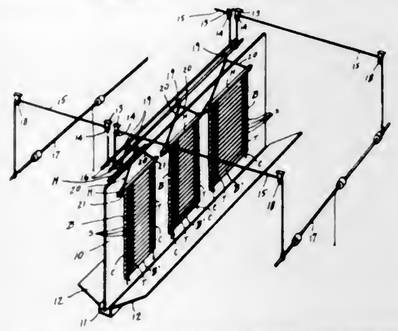
2,665,698

VENETIAN BLIND CLEANING APPARATUS

Leo C. Robinson, Indianapolis, Ind.

Application February 23, 1949, Serial No. 77,878

1 Claim. (Cl. 134—88)



A Venetian blind cleaning apparatus comprising a back stop, a drain disposed therebeneath, a Venetian blind support suspended in overhead relation in close proximity to said back stop and vertically adjustable for disposing the lower end of an extended Venetian blind above the drain, said support comprising a substantially horizontal elongated member disposed in a plane parallel to said back stop, a plurality of blind connecting

means slidably carried by said member, each of said connecting means including a pair of equal length suspension elements terminating in a loop, said loops being adapted for operative association with the ends of the headboard of a Venetian blind, and a high pressure spray discharge means adapted to discharge in close proximity to the blind a cleansing solution spray upon the blind at a pressure of not less than 150 p. s. i.

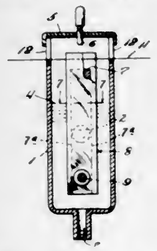
2,665,699

STRAND TREATING APPARATUS

Pyam L. Pendleton, Cranston, R. I., assignor of one-half to Benjamin R. Sturges, Providence, R. I.

Application January 20, 1950, Serial No. 139,749

8 Claims. (Cl. 134—122)



1. In apparatus for use in a fluid processing operation, means for producing a field of rapidly reciprocating fluid particles in a desired processing area, which comprises an elongated vibratable member shaped to form a fluid channel having walls on at least three sides, all of said walls extending at least the greater part of the length of said member, and a pair of said walls being in spaced parallel relation to each other and extending the full length of the same, vibrating driving mechanism connected in driving relation to said vibratable member, and means for supplying fluid to said channel, the point of connection of said vibratable member to said driving mechanism being spaced from one end of the former, such end remaining free to vibrate, and the frequency and mode of vibration of said mechanism being such as to vibrate said vibratable member at a natural frequency thereof in a direction generally normal to the planes of said pair of opposite walls, whereby said fluid will be dispersed into a field of particles rapidly reciprocating between said pair of walls and tending to travel in the direction of said free end independently of any capillary action, at least a portion of said channel constituting said processing area.

2,665,700

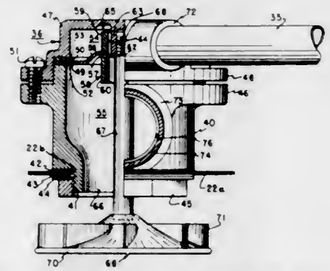
LIQUID INLET AND ANTIBACK-SIPHONING FIXTURE

Frank D. Low, La Grange Park, Ill., assignor to General Electric Company, a corporation of New York

Application April 21, 1950, Serial No. 157,362

7 Claims. (Cl. 134—182)

1. In combination with a liquid receiving vat or the like provided with wall structure having an opening therein disposed above the normal liquid level in said vat, a liquid supply fixture comprising a hollow casing secured in liquid-tight relation with said wall structure about said opening, a partition arranged in said casing and defining first and second chambers therein, said casing having a first hole therein communicating with said second chamber and through said opening with the interior of said vat, said partition having a second hole therein communicating between said first and second chambers, said first and second holes being substantially aligned with respect to each other, a shaft carried by said casing and projecting through said first and second chambers and through said second and first holes and through said opening into said vat, an inlet conduit communicating with said first chamber for normally supplying liquid under gauge pressure thereinto, a substantially cylindrical nozzle arranged in said second hole and supported by said partition and surrounding said shaft for projecting liquid from said first chamber in a defined stream along said shaft through said second chamber and said first hole and said opening into the interior of said vat, said casing having a vent passage therein communicating be-



tween said second chamber and the atmosphere in order to supply air into said inlet conduit in the event of the abnormal condition of a subatmospheric pressure therein so as positively to prevent back-siphoning of liquid from the interior of said vat into said inlet conduit, said nozzle projecting the liquid stream along said shaft through said second chamber in spaced relation with respect to the inner end of said vent passage in order to prevent the escape of liquid from said second chamber into said vent passage, and a member carried by the inner end of said shaft and arranged within said vat and positioned in the path of the liquid stream for deflecting the liquid from the liquid stream and for spreading the liquid through the interior of said vat.

2,665,701

CRUTCH

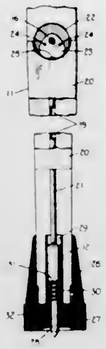
Charles K. Thackeray, Stamford, Conn., assignor to Rehabilitation Center for the Physically Handicapped, Incorporated, Stamford, Conn., a corporation of Connecticut

Application January 22, 1949, Serial No. 72,163

3 Claims. (Cl. 135—53)

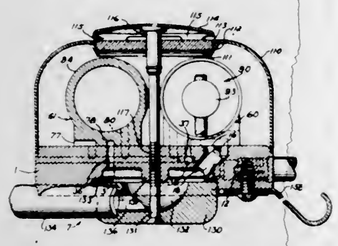
3. In a crutch of the class described, a pair of bowed legs joined at their lower ends to form a foot, a covering strip applied to the outer surface of one of said legs, said strip and said one of said legs having internal cooperating surfaces forming therebetween an internal bore, a relatively thin flexing rod in said bore and per se incapable of accepting the linear compressive force required for supporting the weight of a person thereon, said bore being of such size as to confine said thin rod for movement axially of its length within said bore in the path determined by said bore and to hold the rod against flexing relatively to said bore upon the application of linear compressive force against said rod, said rod thereby becoming effective to accept linear compressive force, a prong in said foot for applying linear compressive force against the said rod when said prong extends beyond said

foot, and means for moving said rod linearly in said groove to effect movement of said prong



relatively to said foot from a position inwardly of said foot to a position outwardly of said foot.

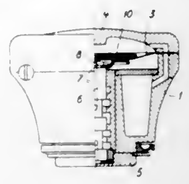
2,665,702
PULSATOR
Emanuel Rawson, Chicago, Ill., assignor, by mesne assignments, to Package Machinery Company, a corporation of Massachusetts
Application August 23, 1949, Serial No. 111,935
18 Claims. (Cl. 137—103)



1. A vacuum type milking pulsator comprising a pulsator block, a fitting on the underside of the block, means securing the fitting to the block, the fitting and the block together having a chamber between them, a pipe secured to the fitting and opening into the chamber for extending vacuum connections thereto, air passageways extending from the chamber to the top of the block, a pulsation valve and a timing valve resting on the block and movable across different ones of the air passageways at the top of the block, and two separately movable pneumatic mechanisms for moving the respective valves and means forming operating air passageways extending from each valve to the pneumatic mechanism that operates the other valve so that each valve controls the pneumatic mechanism that operates the other valve.

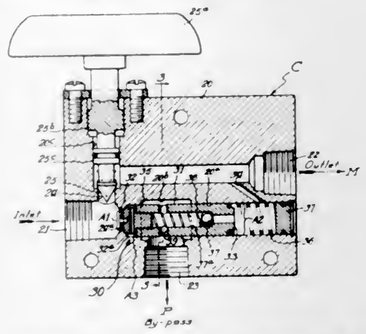
8. A machine comprising a base structure, a mechanism on the base structure including means for controlling the flow of atmospheric air through the base structure, a cover over the mechanism and resting on the base structure, said cover having an opening at the top, an air filter disk closing said opening, a filter cap overlying the filter disk, there being means spacing the cap from the disk to permit the entrance of atmospheric air between the two, and a cover screw extending through the filter disk and connected at one end to the base and at its other end pressing the cap towards the disk and the disk towards the cover.

2,665,703
PNEUMATIC PULSATOR
Sven Johan Erling, Nockeby, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application May 18, 1950, Serial No. 162,798
3 Claims. (Cl. 137—103)



1. In a pneumatic pulsator having a pulsator housing, a rotatable valve piston reciprocable in the housing, and a diaphragm in the housing located at one end of the piston for controlling the reciprocation thereof, the improvement which comprises bayonet plug and socket members, one secured to the piston and the other secured to the diaphragm, said members being interengageable by rotation of the piston to a locking position, with the plug member in the socket member, to form a bayonet catch releasably connecting the piston and the diaphragm, the housing having an opening located near the end of the piston remote from the diaphragm and through which the piston is removable independently of the diaphragm upon rotating the piston from said locking position to disengage said bayonet catch, said plug member having a groove, and a resilient pin mounted in the socket member and located to be received by said groove in the locking position of the piston and thereby hold the piston against rotation from said position.

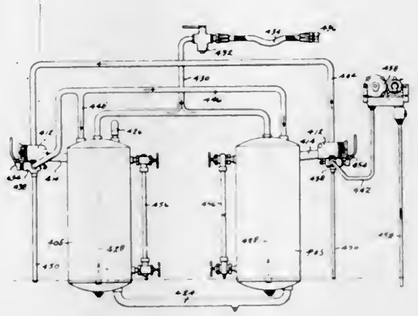
2,665,704
CONSTANT SPEED FLOW CONTROL VALVE
John A. Kanuch, Cleveland, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 26, 1948, Serial No. 17,177
7 Claims. (Cl. 137—110)



1. A working pressure liquid control valve effective to maintain a substantially constant driven motor speed from a substantially constant working liquid pressure source irrespective of variations in the load on the motor comprising, means defining a first orifice arranged to receive working pressure liquid and a second orifice arranged to direct working pressure liquid

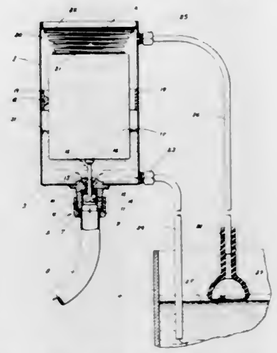
therefrom, a first throttling valve cooperating with said first orifice for regulating the rate of flow therethrough, manually adjustable means for determining the position of said first throttling valve, a third orifice for diverting varying portions of the total flow of pressure liquid from passing through said first orifice, a second throttling valve for regulating the liquid flow through said third orifice, said second throttling valve including a first pressure responsive surface in communication with the pressure liquid delivered to said first throttling valve tending to open said second throttling valve, a second pressure responsive surface in communication with the pressure liquid delivered through said first orifice beyond said first throttling valve tending to move said second throttling valve in a closing direction, said second pressure responsive surface having a larger area than said first pressure responsive surface, and a third pressure responsive surface in communication with said first pressure responsive surface upon partial opening of said second throttling valve and prior to the diversion of portions of the total flow through said third orifice to accelerate the opening action of said valve.

2,665,705
LOCOMOTIVE FRESH WATER SYSTEM
Robert Walsh, New York, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Original application September 2, 1949, Serial No. 113,727. Divided and this application December 29, 1950, Serial No. 203,490
3 Claims. (Cl. 137—208)



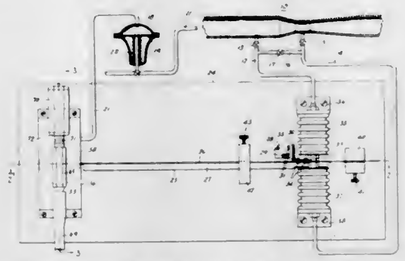
1. In a fresh water supply system for a railway train, a pair of water storage tanks mounted in a locomotive, water outlet pipes extending into the tanks and leading from the bottom central interior zone thereof, a train water supply line to which said outlet pipes are connected, a constantly open water level equalizer pipe extending only between and below the bottoms of said tanks with its ends connected thereto, a water inlet connected with the upper portion of each tank, an air pressure inlet pipe connected with the tops of the tanks, two-way valves in series in the air pressure inlet pipe located one adjacent each tank, an air exhaust pipe open to the atmosphere connected with each of said two-way valves, and an air pressure supply pipe connected with one of said two-way valves, said valves each being operable to control the flow of air either to the tanks or from the tanks through the exhaust pipes to the atmosphere.

2,665,706
WATER FLOW REGULATOR
Joseph R. Hansen, Kingsburg, Calif.
Application January 7, 1952, Serial No. 265,250
6 Claims. (Cl. 137—393)



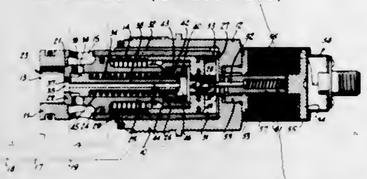
1. A water flow regulator, adapted to recurringly replenish water in a trough up to a given level, comprising an enclosed tank adapted to be mounted adjacent the trough extending above said level, a water feed conduit communicating between a lower portion of the tank and the trough, a separate breather pipe communicating between an upper portion of the tank and a point in the trough closely adjacent but below said level, said breather pipe opening downwardly at its lower end, a water supply pipe, a valve unit connected between the water supply pipe and the tank, and a float in the tank connected in operative relation to the valve to close the same upon the float being raised in the tank by water therein; the valve unit allowing a greater water input into the tank than the capacity of the feed pipe.

2,665,707
FLUID PRESSURE CONTROL APPARATUS
Emory Frank Stover, Wynnewood, Pa.
Application March 13, 1951, Serial No. 215,204
7 Claims. (Cl. 137—486)



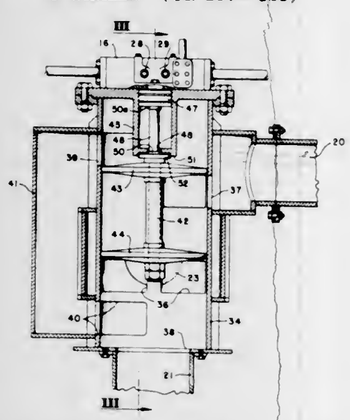
1. In control apparatus, a control member movable in a predetermined plane path responsive to force changes of a variable condition, a fluid pressure operated motor having a portion movable in a predetermined timed cycle for moving an end extension of said member in another path normal to said first mentioned path, a pilot valve, an actuator for said pilot valve with which said movable portion is engageable, said actuator having a plurality of facing stepped surfaces for engagement by said member at different positions in said other path, and means adjustably mounted with respect to said control member for applying on said control member a force in opposition to the forces applied by the variable condition.

2,665,708
PRESSURE FLUID OPERATED BY-PASS AND RELIEF VALVE
Edwin I. Ghormley, Dayton, Ohio, assignor to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application October 19, 1949, Serial No. 122,313
12 Claims. (Cl. 137—493)



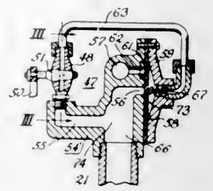
1. A pressure fluid operated valve, comprising a body presenting a longitudinal bore, a coaxial port at one end of said bore and a lateral port opening into said bore adjacent said one end thereof, a hollow piston valve slidable in said bore and arranged to seat in said coaxial port to close communication thereof with said lateral port, means for applying an unbalanced fluid pressure to said piston valve in a manner to seat said valve selectively operable means for unbalancing the fluid pressures acting on said piston valve in a manner to unseat said valve, and pressure relief means received in said hollow piston valve for establishing communication between said ports through said piston valve in response to the attainment of a predetermined pressure differential therebetween independently of said selectively operable means.

2,665,709
VALVE OPERATING MECHANISM
Herbert Harvey, Los Angeles, Calif., assignor to United States Steel Corporation, a corporation of New Jersey
Original application February 25, 1949, Serial No. 78,294. Divided and this application November 28, 1951, Serial No. 258,709
5 Claims. (Cl. 137—625)



1. The combination with a four-way slide valve which includes a cylindrical body having ports in its walls, a slide reciprocable in said body and having two positions providing different communication among said ports, and means furnishing free communication between the opposite end portions of said body, said end portions being adapted to be subjected to a positive pressure in both positions of said slide, of an operating mechanism comprising a cylinder housed within one end portion of said body and fixed to the end wall thereof, a piston reciprocable in said cylinder, a piston rod attached to said piston and to said slide, said cylinder having an inner end wall which has a passage larger than the cross section of said piston rod and through which said piston rod extends, said passage furnishing free communication for subjecting the inner face of said piston to the pressure within the end portions of said body, and means for applying pressure to and relieving said cylinder on the other side of said piston.

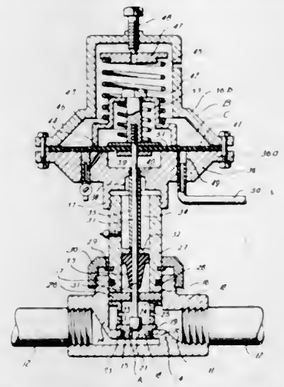
2,665,710
WATER SERVICE DEVICE
James W. McGarry, Cincinnati, and Benjamin W. Wickemeier, Hamilton County, Ohio, assignors to Railroad Products Company, Cincinnati, Ohio, a corporation of Ohio
Application March 9, 1949, Serial No. 80,392
1 Claim. (Cl. 137—652)



A valve assembly which comprises a metal valve body having an inlet, a control port and an outlet port communicating with said inlet, said valve body having a flat face surrounding said outlet port, a discharge opening in said face spaced from the outlet port, the discharge opening being countersunk, a hollow annular member of rubber-like material in said countersink and having its outer end flush with the flat face of the valve body, a diaphragm housing attached to the valve body and overlying the discharge opening and the outlet port, a diaphragm in the housing disposed to simultaneously cover and uncover said outlet port and said discharge opening, a three-way valve cock having an inlet port connected to the control port of the valve body, an outlet port connected to the diaphragm housing, and a drain port, a plug in said cock movable to a valve open position in which the outlet port of the cock communicates with the drain port and to a valve closed position in which the inlet and outlet ports of the cock are in communication, and a spring in said housing urging the diaphragm into engagement with said flat face, whereby, when fluid under pressure is supplied to the inlet of the valve body and said plug is moved to valve open position, the pressure deflects the diaphragm off the outlet port of the main valve body and fluid flows therethrough to the discharge opening and when said plug is moved to valve closed position, the forces of fluid pressure and said spring act on said diaphragm to deflect it toward the valve body, whereby the diaphragm seats on the annular member and closes the discharge opening.

2,665,711
FLUID MOTOR VALVE
Asbury S. Parks, Houston, Tex.
Application November 30, 1951, Serial No. 259,224
12 Claims. (Cl. 137—688)

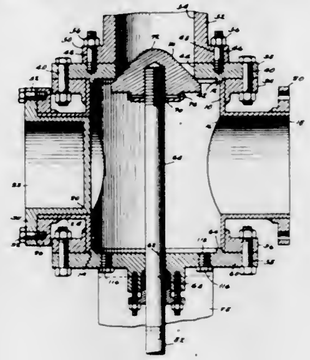
1. A motor valve device including, a valve housing having a valve seat support provided with an opening therein, said housing also having an access opening in alignment with the opening in the valve seat support, an annular valve seat member insertable through the access opening and having a sliding fit mounting within the opening in the valve seat support, a retaining assembly also insertable through the access opening and having its inner end engageable with the valve seat member to maintain said member in position within the opening in the valve seat support, said assembly including a tubular body extending outwardly from the ac-

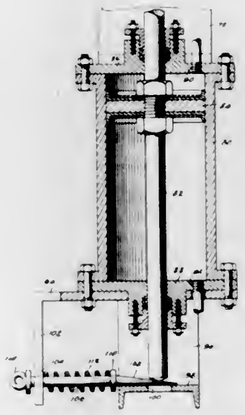


cess opening, means engageable with the body and attached to the valve housing for securing the retaining assembly within the housing, a valve element movable with respect to the valve seat, a valve stem on the valve element extending axially through the retaining assembly with its outer end projecting beyond the body, a casing secured directly to the outer end of the tubular body of the retaining assembly, and a pressure responsive element within said casing and having the projecting end of the valve stem secured thereto.

2,665,712
FLUID PRESSURE ACTUATED VALVE WITH STOP MEANS
Leo Pratt, Georgetown, S. C.
Application July 5, 1951, Serial No. 235,139
1 Claim. (Cl. 137—689)

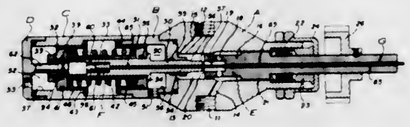
Means for blowing a pressure vessel such as a digester comprising, a valve seat having an axial outlet opening extending therethrough, an elongated tubular valve body connected to the valve seat, said valve body having a fluid pressure inlet opening through the side thereof, a head closing the end of the tubular body remote from the valve seat, said head having an opening extending therethrough which aligns axially with the opening in the valve seat, a rod extending through the opening in the head, a valve head on the rod within the tubular body for cooperating with the seat in closing the opening therethrough, a cylinder carried by the head, a piston working within the cylinder, an elongated piston rod connected to the piston and extending through opposite ends of the cylinder, means connecting one end of the piston rod to the rod carrying the valve head, a support carried by the cylinder and having an opening extending therethrough in alignment with the piston rod, a bolt carried by the support and movable across the opening therein for engaging and holding the valve head against the valve seat, an outstanding flange carried by the bolt intermediate the ends thereof, a longitudinally inclined surface carried by the bolt for engaging the piston rod, and spring means encircling the bolt and engaging the flange with one end and the support with the opposite end, for advancing the bolt toward





the piston rod and the inclined surface into engagement with said piston rod when the valve head engages the valve seat.

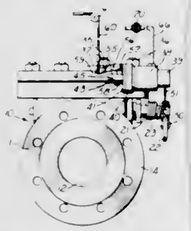
2,665,713
CONTROL VALVE
Robert R. Crookston and Arthur L. Seljos, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application January 9, 1952, Serial No. 265,557
3 Claims. (Cl. 137—689)



3. A valve control mechanism comprising, in combination, a housing having a central fluid passage extending longitudinally through a portion of said housing with a first end communicating with an inlet port and a second end communicating with an outlet port, the housing having a hollow cylinder portion separable from and co-axial with said central passage with a first inlet at a first end and a second inlet at the second end of said hollow cylinder, a first member having a first end extending outside said housing

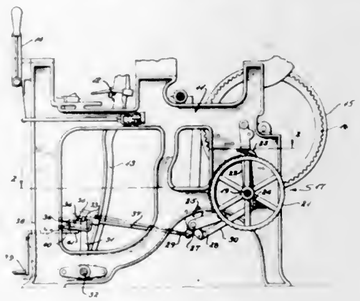
through a packed opening and a second end extending into the central fluid passage and terminating in an annular valve seat surrounding a central bore in said member, the central passage connecting said inlet with said bore through radial ports opening from said bore, a sealing member mounted on the second end of said member at a point between said valve seat and said ports and making a fluid-tight seal with the walls of said central passage, said first member being adjustably secured to said housing by screw threads for longitudinal movement of the valve seat in said central passage, a piston assembly arranged for slidable movement longitudinally in the hollow cylinder portion in the housing and sealed from said central passage, a first end of the piston assembly including an axially projecting second member with a projecting end having a first annular valve seat surface and a second smaller diameter valve surface in the central fluid passage coaxial with and facing the annular valve seat of the first member, the second member being adapted to be moved in a first direction to cause the second valve surface to enter the central bore of the first member until the first annular valve seat surface seals with the valve seat of the first member, and centering means mounted in said housing cooperating with said piston to bias it in a position with a second valve surface of the second member outside the central bore of the first member.

2,665,714
VALVE
Dolphice H. Greenwood, Pasadena, Calif.
Application January 18, 1949, Serial No. 71,422
2 Claims. (Cl. 137—699)



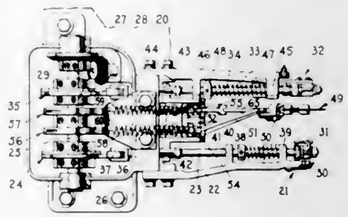
1. In a control device for controlling the actuation of an automatic, quick-closing valve having a movable valve element and operating means for moving the valve element to a closed position, the combination of: an arm operatively connected to the valve element; link means connected to said arm; movable detent means engageable with said link means to retain said arm in a position to maintain the valve element in an open position, said detent means being retractable to disengage said link means; spring means for biasing said detent means into an engagement with said link means; hydraulic control means for retracting said detent means out of engagement with said link means against the action of said spring means so as to disengage said detent means from said link means and thus permit movement of the valve element to its closed position, said hydraulic control means including a cylinder having a piston reciprocable therein and including means for admitting an operating fluid into such cylinder on one side of said piston, said detent means being rigidly connected to said piston and projecting through one end of said cylinder into engagement with said link means when said piston is adjacent said one end of said cylinder, said piston having a rod which extends through the opposite end of said cylinder; and manually operable means connected to said rod for moving said rod, said piston and said detent means simultaneously to retract said detent means out of engagement with said link means manually.

2,665,715
SET MARK ELIMINATOR
Charles R. Beall and Luther B. Reynolds, La Grange, Ga., assignors to West Point Manufacturing Company, West Point, Ga., a corporation of Alabama
Application March 4, 1949, Serial No. 79,644
1 Claim. (Cl. 139—111)



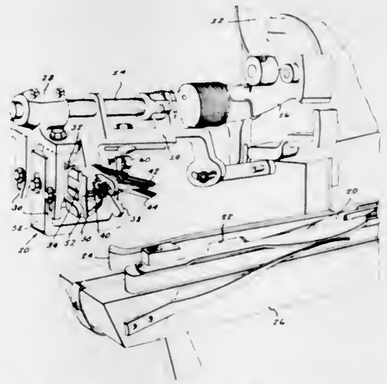
In combination with a loom, a warp beam, a ratchet wheel and actuating pawl for rotating said warp beam to let off the warp, a reciprocating pawl carrier driving said actuating pawl, a rocker arm fixed to the lay rock shaft of said loom, a pin extending from the outer end of said rocker arm, a mechanical linkage between said pin and said pawl carrier to actuate said pawl carrier by means of said pin, said linkage comprising a drive slot enclosing said pin, and mechanical means for temporarily disengaging said pin from said drive slot while said loom is operating.

2,665,716
METHOD AND MECHANISM FOR FILLING CONTROL IN SHUTTLELESS LOOMS
Walter J. Budzyna, East Douglas, Mass., and Maurice R. Flamand, Central Falls, R. I., assignors to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application January 25, 1951, Serial No. 207,712
7 Claims. (Cl. 139—127)



1. A method of controlling filling inserted by an inserting member from an outside source of supply while weaving fabric in which the fabric filling structure comprises connected picks each of which has a cut end and is disposed in a separate warp shed, which comprises the steps of guiding the filling between the supply and a point adjacent the selvage of the fabric being woven at which a cut end of the filling is held, and engaging that filling between the point at which it is guided and that at which the end is held, and deflecting a length thereof across the pathway of an inserting member, and, during that period of time only for which the filling is being engaged by the member for the first of a connected pair of picks, retaining the length of filling at the point where it was deflected and then releasing it as soon as it has been positively taken by the inserting member, and at the insertion of the second of a connected pair of picks, retaining the filling at the selvage of the fabric and again engaging it between the point at which it is guided and the selvage and deflecting a second length thereof across the pathway of the inserting member, and, during a period of time for which the pick is being drawn from the supply and inserted for a substantial distance into the shed, retaining the filling from the selvage to the original point of deflection and thence to the inserting member, and releasing that retained filling so that the loop thereof is taken into the shed after which the filling from the supply is severed and held.

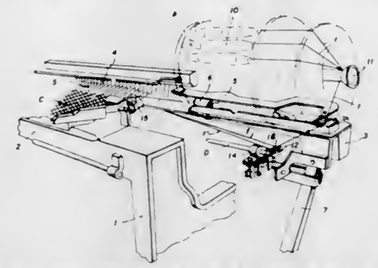
2,665,717
FILLING END PARTING MECHANISM FOR LOOMS
John E. Smith, Greenville, S. C.
Application October 2, 1952, Serial No. 312,780
8 Claims. (Cl. 139—263)



1. A filling end parting mechanism for replenishing looms, said mechanism comprising a filling end parter, a carrier pivotally supporting said parter, and cam means for pivoting said parter to an elevated position with respect to said carrier when retracted while allowing said parter to be lowered to a normal operative position upon movement to part an outgoing filling end at the time of transfer.

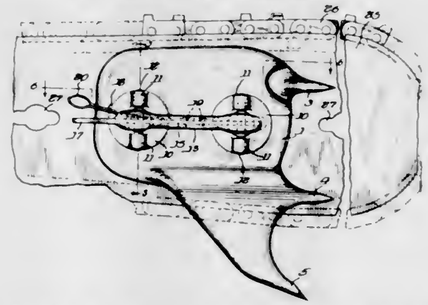
2,665,718
WEFT THREAD CUTTER AND GUARD
Ralph L. Tice, Columbus, Ga.
Application August 1, 1951, Serial No. 239,755
8 Claims. (Cl. 139—264)

1. In an automatic filling replenishing loom of the class in which parting and clamping blades are movable rearwardly into the shuttle box to part and withdraw therefrom the outgoing filling end at the time of a replenishing operation, said parting and clamping blades normally being disposed in a forwardly retracted position, the combination with said parting and clamping blades of a thread guard fixedly supported on said loom, said guard comprising a guard element and an overhanging stop portion, said guard element being disposed rearwardly of said blades in the forwardly retracted position there-



of and sloping rearwardly and downwardly, and said overhanging stop portion projecting rearwardly from said guard element at the upper extremity of the latter.

2,665,719
ANCHORING DEVICE FOR PORTABLE CHAIN SAWING MACHINE BLADES
Matt Pennanen, Herman, Mich.
Application December 28, 1951, Serial No. 263,750
5 Claims. (Cl. 143—32)

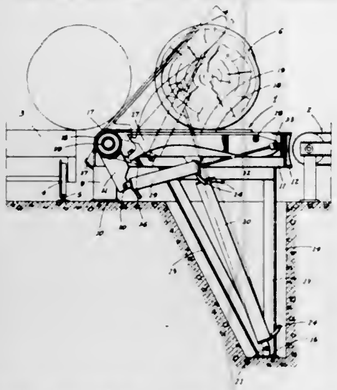


1. A sawing machine blade anchoring device, comprising a body having a plurality of relatively vertically spaced spurs on and extending from one end thereof, a plurality of spaced and headed pins rotatably mounted on and longitudinally of the body and extending outwardly from one side thereof, gears mounted on portions of said pins enmeshed and adjacent one side of said body, and manually operable means connected to one of said rotatable pins whereby to facilitate rotation of the same.

2,665,720
SAWMILL LOG LOADER AND TURNER
Albert H. Tangemann, Gilroy, Calif., assignor to Be-Ge Manufacturing Co., Gilroy, Calif., a corporation of California
Application May 21, 1951, Serial No. 227,369
3 Claims. (Cl. 143—95)

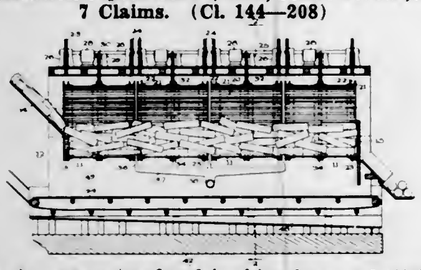
3. A log loader and turner comprising, in connection with a log deck, a shaft mounted along the front edge of the deck, loader arms fixed on and spaced along the shaft for upward swinging movement from deck level, a nigger arm lying alongside one loader arm, means pivoting the nigger arm adjacent one end on said one loader arm adjacent its outer end, the nigger arm being normally disposed below the log engaging face of said loader arm and extending from its pivot toward the shaft end of said loader arm, a

log engaging element on the free end of the nigger arm, and means to swing the nigger arm about its pivot upwardly from said load engaging face of the loader arm; said last named means



comprising a bracket fixed on and projecting from the shaft in normally depending relation thereto, and a hydraulic cylinder unit connected between the bracket and the nigger arm at the end thereof opposite its free end.

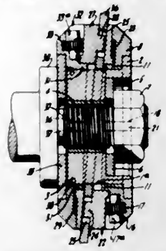
2,665,721
BARK-REMOVING DRUM COMBINED WITH HYDRAULIC JET
Thomas N. Busch, Mobile, Ala.
Application September 26, 1952, Serial No. 311,630
7 Claims. (Cl. 144—208)



1. An apparatus for debarking logs and sticks, comprising a series of drums, open at each end, arranged in end to end spaced relation, and each drum having a quantity of short logs and sticks therein which are of less length than the length of a drum, means for supporting said drums, means for rotating said drums to progressively feed the logs and sticks from one drum to another and causing said logs and sticks to have a tumbling and rubbing action within said drums, and means for injecting water under high pressure into the space between said adjoining drums and against the logs and sticks as they travel from one drum to another.

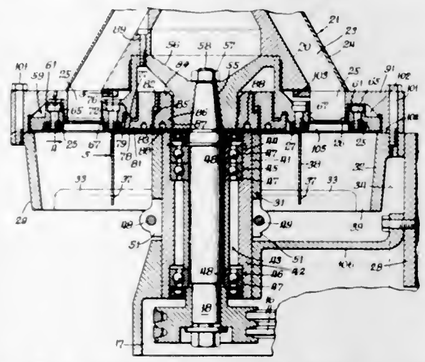
6. The method of debarking a mass of barked logs and sticks as they progress through a plurality of drums rotating at different speeds, consisting in progressively feeding and rotating a mass of logs and sticks to create a tumbling and scuffing action therebetween to remove the bark therefrom, and subjecting the logs and sticks on the bottom of the progressing mass and against the gravitational force of the mass of logs and sticks to the action of high pressure jets of water as the mass of logs and sticks passes from one rotating drum into an adjoining drum rotating at a speed different from that of said one drum.

2,665,722
DADO SAW ASSEMBLY
John W. Edgemond, Jr., Los Altos, Calif., assignor to Magna Engineering Corporation, San Francisco, Calif., a corporation of California
Application February 19, 1951, Serial No. 211,647
4 Claims. (Cl. 144—238)



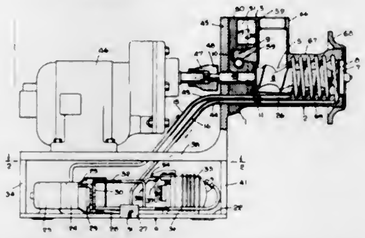
1. A dado saw mounting assembly comprising: a cylindrical hub having a crowned saw mount portion intermediate its ends; a pair of outer axially spaced wedge-shaped rings journaled on said hub, one on either side of said crowned saw mount portion, the outer face of each of said outer rings being normal to the axis of its bore and the inner face of each of said outer rings being inclined with respect to said axis, each of said outer rings being provided on its inner inclined face with an annular channel the bottom of which lies in a plane normal to the axis of its bore and concentric therewith; and an inner wedge-shaped ring journaled in the annular channel of each of said outer wedge-shaped rings, in face to face engagement therewith, said assembly being arranged to receive a circular saw blade on said crowned saw mount portion between said inner rings.

2,665,723
MACHINE FOR SLICING CORN KERNELS
Joe R. Urschel and Gerald W. Urschel, Valparaiso, Ind.
Application February 3, 1953, Serial No. 334,892
18 Claims. (Cl. 146—124)



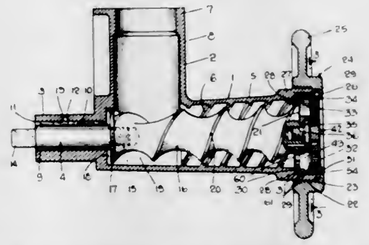
1. In a machine for slicing small sliceable products, a stationary structure comprising a circle of passages which communicate through such structure axially of such circle, each passage having a product-receiving end and a product-discharge end, said structure also comprising partition walls arranged alternately with said passages to separate each from the ones adjacent thereto, means providing shearing edges respectively on said partitions adjacent the discharge ends of said passages, a product-feeding cone disposed with its principal axis coaxial with said circle, the base of said cone being disposed contiguously with said structure on the side thereof common to the receiving ends of said passages and the small diameter end portion of the cone projecting upwardly from the structure, the base of said cone having a diameter substantially equal to that of the area embraced by said circle of passages, a hopper having a product-holding portion above the cone, a lower conical portion embracing the cone and spaced radially outwardly therefrom to cooperate with the cone in forming a downwardly flared annular feeding passage for directing the products from the upper part of the hopper downwardly into the circularly arranged passages, a cutting wheel rotatable coaxially with said circle of passages upon the opposite side of the passage-containing structure from said cone, said wheel comprising knives disposed substantially in horizontal planes and extending radially to sweep in registry with the product-discharge ends of said passages attendant to rotation of the wheel, said knives having cutting edges which successively approach the cutting edges on said partitions attendant to rotation of the wheel to cooperate therewith in scissorlike fashion for slicing products fed downwardly through the passages.

2,665,724
REFRIGERATED MEAT CHOPPER
Arnold W. Lundell, Byram, Conn., assignor to Globe Slicing Machine Co., Inc., Stamford, Conn., a corporation of New York
Application October 20, 1950, Serial No. 191,618
1 Claim. (Cl. 146—182)



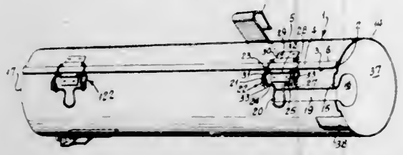
A commodity chopper operatively connected to a refrigerating system having feed and return conduits and a pump for circulating a heat transferring medium by means of said conduits to and from the commodity chopper, the commodity chopper being characterized by a cutter and advancing screw having a shaft, a stationary casing section, a removable casing section chambered to form a funnel and main passage for said cutter and advancing screw, there being a channel formed in the wall of said removable section surrounding said main passage, said casing sections having opposing accurately planed contact faces, feed and return ends for the channel in said removable section terminating in the contact face of said removable section, annular recesses surrounding said ends, compressible washers disposed in said annular recesses, the feed and return conduits of the refrigerating system having portions extending through said stationary section and protruding from the contact face of said stationary section in position to register with the feed and return ends, respectively, of the channel in said removable section, the protruding portions of the feed and return conduits being tapered, but otherwise snugly conforming to the inner contour of the said feed and return ends to afford a snug fit with one another, a projection on said stationary section extending from its contact face and snugly conforming to the interior of the rear end of the main passage in said removable section, and clamping means for clamping said casing sections with their contact faces in intimate engagement with one another to seal off against leakage not only the rear end of the main passage in said removable casing, but also the connections between the protruding portions of the feed and return conduits and the feed and return ends of the channel, said projection cooperating with the protruding portions of said feed and return conduits being parallel to one another and cooperating with one another to serve as indexes for accurately positioning the removable casing section relative to said stationary casing section when said clamping means are operated to draw the contact faces into intimate engagement with one another.

2,665,725
FOOD CHOPPER
Arnold W. Lundell, Byram, Conn., assignor to Globe Slicing Machine Co., Inc., Stamford, Conn., a corporation of New York
Application April 10, 1953, Serial No. 347,903
5 Claims. (Cl. 146—189)



1. In a food chopper, the combination of a tubular casing having an inner face with an outlet at one end and an inlet at the other end, at least one helical rib extending radially and inwardly from said face, there being a narrow annular recess in said face adjacent to said outlet, a hard metal ring seated in said annular recess and having a plurality of teeth terminating at their inner radially extending ends in substantial alinement with said rib, there being a smooth narrow annular recess in said ring extending axially outward from said teeth and forming a cylindrical bearing face, the axial outer faces of said teeth forming a radially extending shoulder, a worm rotatably mounted in said casing for advancing the food to be cut in an axially outward direction toward said teeth and said outlet, a narrow cutter mounted on the discharge end of the worm to rotate with the same and having at least three radially extending arms having their outer peripheries cooperating with said cylindrical bearing face to take up the radial thrust of said worm, said cutter having axial inner and outer cutting edges and said inner cutting edges being in operative engagement with the outer faces of said teeth, and a circular disk having an annular series of small holes disposed about a circular imperforate area, the outer periphery of said disk conforming to said smooth annular recess and anchored in the same with the axial outer cutting edges of said cutter in operative engagement with the axial inner face of said disk and the worm extending into the area between said cutting teeth whereby residual meat left in the meat chopper is reduced to a small amount.

2,665,726
GUIDE FOR SLICING MACHINES
Arnold W. Lundell, Byram, Conn., assignor to Globe Slicing Machine Co., Inc., Stamford, Conn., a corporation of New York
Application November 6, 1952, Serial No. 319,008
5 Claims. (Cl. 146—217)



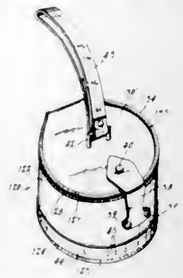
1. In a guide for feeding a loaf of chopped food by gravity to the knife of a slicing machine in which the commodity chute has wings extending upwardly from a platform—the combination of a flexible shield, arcuate in form with its longitudinally extending edges spaced from, and adjacent to, one another in open position and overlapping in closed position to conform substantially to a cylinder, devices on the outer face of said shield connecting the shield to the edges of the wings of the chute with the lower open end resting on the platform of the chute, interlocking latches on the outer face of, and adjacent to, the longitudinally extending edges of the shield operable in one position to secure the shield in closed position and in another position to maintain the shield in open position, and an abutment secured to said latches, said abutment extending across the lower end of the shield in the path of movement of the loaf being fed down the guide when the shield is in closed position and swung clear of the lower end of the shield when the shield is in open position.

2,665,727
WICKER GOLF BAG
Marcia Fite, Poughkeepsie, N. Y.
Application September 25, 1950, Serial No. 186,570
1 Claim. (Cl. 150—1.5)



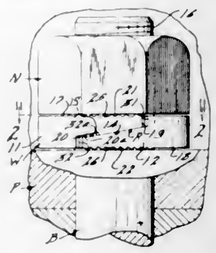
A golf bag formed entirely of woven wicker constructed in basket weave and including a mouth, a rigid elongated tubular body and having an outwardly flaring base at its lower end, all of interwoven wicker elements, the length of said body being substantially greater than one-half the length of the golf clubs to be contained therein, said body containing a plurality of longitudinal U-shaped stays of sufficient strength to render the body non-collapsible, a number of additional longitudinal stays in the base having portions bent inwardly at right angles at the bottom of the base portion of said body to form bottom stays, the said number of said side and bottom stays being sufficient to form a self-supporting rigid bag, said body being of uniform diameter for a major portion of its length from its mouth downward, and the base portion thereof being flared outwardly to an increased diameter at the junction of the body with the bottom, whereby the bag is capable of standing upright on its base.

2,665,728
LADY'S HANDBAG OR THE LIKE
Sidney Hyman, New York, N. Y.
Application January 28, 1952, Serial No. 268,509
2 Claims. (Cl. 150—28)



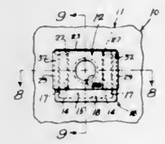
1. A lady's handbag or the like, comprising a perimetral shell open at its top and bottom, a bottom wall closing the open bottom of said shell, a closure flap including an integral depending tail extended over the outer face of the perimetral shell and hinged to said shell for closing the open top thereof, means releasably retaining said closure flap in its closed position, and a carrying handle attached to the outer face of said closure flap, said perimetral shell having a groove in its inner face adjacent its bottom edge into which the peripheral edges of said bottom wall are engaged, said perimetral shell having an outer sheet of material, a strip of binding material secured to the bottom edge of said outer sheet of material, an inner sheet of material positioned against the inner face of said outer sheet of material, means securing together the top edges of said inner and outer sheets of material, said inner sheet of material being spaced from the adjacent edge of said strip of material by a distance equal to the thickness of the material of said bottom wall providing said groove in which the peripheral edges of said bottom wall are snugly fitted.

2,665,729
SPLIT LOCK WASHER HAVING MOVEMENT LIMITING MEANS
Sydney L. Terry, St. Clair Shores, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 15, 1950, Serial No. 168,281
5 Claims. (Cl. 151—36)



1. A lockwasher comprising a substantially flat unitary split ring of flexible material having overlapping end portions formed with inwardly disposed, circumferentially extending ramp faces slidably engageable along an inclined plane extending transversely of the axis of the ring, said end portions each having outwardly disposed faces formed with friction grip means adapted to be frictionally engaged with the surfaces of elements placed adjacent thereto, said overlapping end portions including interengageable tooth and slot means to limit the relative circumferential movement of the overlapped end portions in a ring contracting direction to provide a means for controlling the magnitude of the locking action of the lockwasher, the coefficient of friction of said friction grip means on the outwardly disposed faces of said overlapped end portions being greater than the coefficient of friction between the inwardly disposed, slidably engageable ramp faces of said overlapped end portions.

2,665,730
INTERLOCKING SHEET METAL AND ATTACHMENT NUT CONSTRUCTION
John T. Trumble, Detroit, Mich.
Application February 25, 1950, Serial No. 146,205
1 Claim. (Cl. 151—41.7)



In an interlocking fastener, a sheet metal member having a rectangular opening provided with upstruck side flanges formed with inturned guide projections, a bridge flange upstruck from said opening connecting the side flanges at one end thereof, said bridge flange being provided with an inturned guide projection connecting said first mentioned guide projections, the opposite ends of the upstruck side flanges and inturned guide projections terminating a slight distance from the edge of said rectangular opening to provide a restricted entrance slot beneath the end of each inturned guide projection and the edge of said opening, and a threaded fastener conforming in shape to said rectangular opening having inwardly directed slots along the full length of a pair of opposite side edges thereof for receiving said guide projections, said slots being cut to form inner and outer sets of opposed flanges, the inwardly directed slots being of a thickness slightly greater than the thickness of said inturned guide projections and the inner flanges of said fastener being slightly thicker than the distance between the internal guide projections and said sheet metal member, so that the fastener can be seated by forcing the inner flanges through said entrance slots which causes the end portions of the guide projections to be yieldingly moved away from said sheet metal member until the threaded member is fully seated and locked in position when the ends of the inturned guide projections have returned to their normal restricting position.

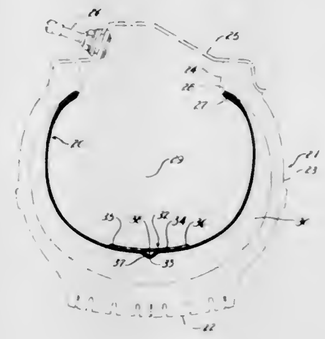
2,665,731
TUBELESS TIRE
Raymond J. Slezak, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application December 6, 1951, Serial No. 260,196
4 Claims. (Cl. 152—341)

1. For use in a tire of the tubeless type, a safety diaphragm having a recessed crown defined by a pair of circumferential annular shoulders, dividing the interior of the tire into an inner chamber and an outer chamber, a valve comprising a flat, elastic strip extending transversely of the diaphragm and secured at its ends to points on either side respectively of one of said shoulders, said strip normally spanning said shoulder in a position overlying an aperture in



said shoulder and spaced a substantial distance from said aperture when the air pressures in said chambers are substantially equal, said strip being adapted to lie closely adjacent said aperture to cut off communication between said chambers when the air pressure in said outer chamber is sharply reduced permitting outward distension of said diaphragm crown.

2,665,732
VALVE FOR TUBELESS TIRE DIAPHRAGMS
Raymond J. Slezak, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application November 27, 1951, Serial No. 258,333
9 Claims. (Cl. 152—342)



1. In a tire in which the interior of the tire is divided into two chambers by a flexible partition, a valve construction comprising a partition element having an aperture and a flat strip element spanning said aperture and secured at its ends to said partition element at two spaced points, the lengths of said partition element and said strip element between said points normally differing substantially whereby one of said elements has a bulge of substantial size formed therein.

2,665,733

CELLULOSE FIBER TIRE CASING PROTECTED AGAINST HEAT AGING

Howard M. Buckwalter, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application September 20, 1949, Serial No. 116,857
5 Claims. (Cl. 152—359)



CELLULOSE TIRE CORDS CONTAINING MELAMINE AS SUCH TO PREVENT HEAT DETERIORATION

3. A vulcanized rubber article reinforced with cellulose fibers containing from 0.1% to 4.0% of melamine on the weight of the fiber as such.

2,665,734

PROTECTION OF CELLULOSE FIBER AGAINST HEAT AGING AND TIRE CASING CONTAINING SUCH FIBER

Howard M. Buckwalter, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application February 27, 1951, Serial No. 213,040
7 Claims. (Cl. 152—359)



CELLULOSE TIRE CORDS CONTAINING DICYANDIAMIDE AS SUCH TO PREVENT HEAT DETERIORATION

4. The method of improving the resistance of cellulose fibers to the deteriorating effects of heat aging which comprises incorporating cyanamide in the cellulose fiber in amount of from 0.1 to 10.0% by weight, subjecting the cyanamide to a temperature sufficiently elevated to convert it to dicyandiamide and preserving the dicyandiamide as such in the fibers whereby the said dicyandiamide is available as such during subsequent exposure of the thus treated fibers to heat aging and the fibers are thereby substantially preserved against permanent, irreversible loss of their original strength level after exposure to temperatures above 125° C. but below the ignition temperature of the fibers.

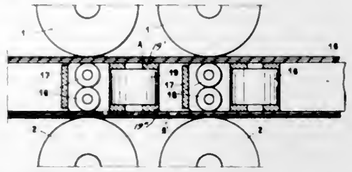
2,665,735

PRODUCTION OF A CONTINUOUS MONOLITHIC HOLLOW MEMBER FROM HEAT WELDABLE MATERIAL

Giuseppe Steffenino, Turin, Italy

Application August 4, 1948, Serial No. 42,424
Claims priority, application Italy August 8, 1947
6 Claims. (Cl. 154—1.6)

1. A continuous method for manufacturing hollow panels from heat weldable resinous sheet material comprising the steps of continuously moving at least two ribbons of said material in vertically spaced relationship through laminating cylinders, simultaneously inserting a plurality of spaced, longitudinal, vertically disposed ribs of the same material between said ribbons in the direction of their travel and simultaneously bonding the ribs to the ribbons by heat and pressure to form a monolithic hollow unit of spaced apart facings and spaced strengthening ribs integrally united thereto.



4. Apparatus for the continuous production of hollow panels from resin impregnated fibrous material including at least one pair of laminating cylinders spaced apart and parallel to one another, a plurality of box frames supported between the cylinders, said frames being arranged in series in spaced relation with respect to the longitudinal axes of the cylinders and said frames further having transverse dimensions substantially less than the longitudinal dimensions of the cylinders, each frame including parallel side walls and upper and lower transverse webs, a pair of counterpressure rolls journalled in the side walls of each frame, contacting one another and disposed in the space between and respectively spaced from the laminating cylinders, said rolls having their axes lying in a plane passing through the axes of the cylinders, the vertical dimensions of the frame and the combined diameters of the counterpressure rolls being such as to provide parallel spaces between the counterpressure rolls and each cylinder of the pair of cylinders for the passage of vertically spaced ribbons of said material, the opposite side walls of the frame having openings therein, guiding rolls rotatably supported in the upper and lower transverse webs of each frame with their axes at right angles to the axes of the counterpressure rolls and said guiding rolls having their peripheries projecting through the openings in the opposite side walls of the frame so that the guide rolls in adjacent frames are spaced from one another, the spacing between the adjacent frames and thus between adjacent guide rolls of respectively adjacent frames permitting insertion and movement of longitudinally extending vertically disposed strengthening ribs of said material, and heating means for applying heat to the cylinders so that the ribbons and ribs are simultaneously bonded together in passage through the apparatus.

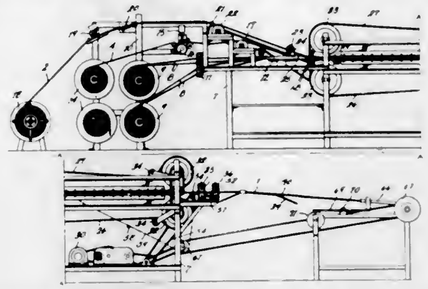
2,665,736

MACHINE FOR MANUFACTURING METAL REINFORCED BINDING TAPE

Barney Boersma and John Stanley Robinson, Grand Rapids, Mich., assignors to Sackner Products, Inc., a corporation of Michigan

Application April 22, 1949, Serial No. 89,058
18 Claims. (Cl. 154—1.6)

18. In a machine for manufacturing binding tape, means for guiding a metal strand and a padding strip into superimposed relation, means disposed at one side of the padding strip for severing the same transversely thereof, said severing means being disposed to sever the padding strip without severing the metal strand, said guiding means including means disposed to guide said metal strand onto the side of the padding strip opposite from said severing means to facilitate severing said padding strip by said severing means without severing said metal strand, means for feeding said metal strand and padding strip to said severing means, and means for operating said severing means in timed relation to said feeding means.

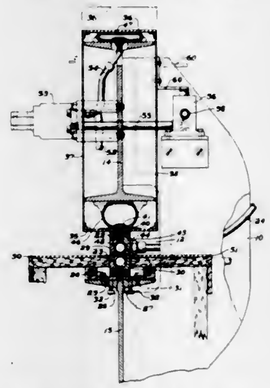


2,665,737

APPARATUS FOR SEAMING PLASTIC SHEET MATERIAL

Victor H. Hasselquist, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application August 26, 1949, Serial No. 112,585
5 Claims. (Cl. 154—42)



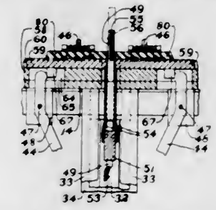
1. A press comprising a die-supporting frame member, a reaction-resisting frame member comprising an elongate beam, said frame members being supported one from the other in fixed spaced-apart relation one to another, a movable die-supporting member mounted for movement toward and from said die-supporting frame member and having an elongate passage surrounding said beam and defined by spaced-apart walls extending along opposite faces of said beam and spaced therefrom in the direction of movement of said movable member, one of said walls extending along a space between said frame members, an elongate inflatable container extending along and between said extending wall of said movable member and said beam, a second inflatable container extending along and between the opposite wall of the movable member and said beam, means for inflating and deflating said second inflatable container alternately for moving said movable die-supporting member toward and from said die-supporting frame member, and means for inflating said first container when the movable member is in a predetermined position relative to the beam to urge the movable member toward the die-supporting frame member.

2,665,738

HEAT-SEALING APPARATUS FOR JOINING THERMOPLASTIC MEMBERS

Norman H. Caskin, Marietta, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application May 15, 1950, Serial No. 162,054
14 Claims. (Cl. 154—42)



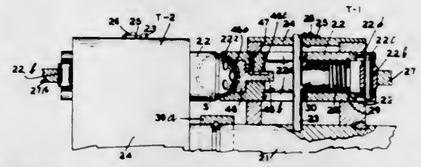
1. Apparatus for heat-sealing thermoplastic members which comprises a radiant heating element, means for supporting and maintaining said members in opposed spaced-apart relationship with said heating element interposed therebetween in spaced relation thereto until the opposing surfaces of said members have been softened, mechanical means for rapidly removing said heating element from between said members, and mechanical means for advancing said members together after removal of said heating element and for pressing the opposing softened surfaces of said members together in intimate face-to-face contact, the first said mechanical means including means for activating the second said mechanical means as said heating element is removed from between said members.

2,665,739

MACHINE FOR MANUFACTURING HOLLOW BODIES FROM THERMOPLASTIC SHELL MEMBERS

Clinton V. Carlson and Wayne E. Schober, Minneapolis, Minn., assignors to Cosom Industries, Inc., Minneapolis, Minn., a corporation of Minnesota

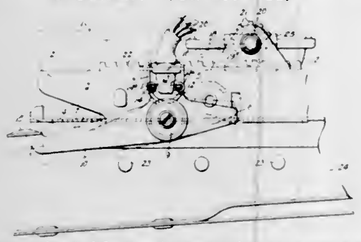
Application February 26, 1951, Serial No. 212,814
12 Claims. (Cl. 154—42)



1. Apparatus for manufacturing thin hollow bodies from a pair of thermoplastic shell members which have complementary edges adapted to be brought into registration, having in combination a mounting, at least a pair of cooperating shell holding members supported on said mounting and connected thereto for movement together and apart, said shell holding members having means for precisely retaining shells of predetermined shape with open ends thereof in opposed relation for registration, mechanism for moving said shell holding members together and apart under control, a heating plate supported

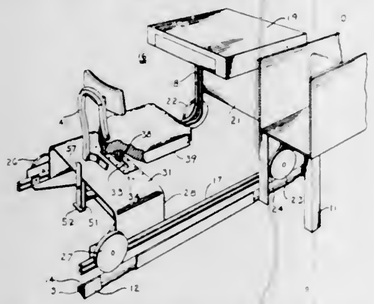
upon said mounting and connected for relative movement transversely to the movements of said shell holding members apart and together and positioned to be interposed between the opposed edges of shells in said holding members when said members are spaced apart.

2,665,740
MOTOR VEHICLE SEAT
Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application February 7, 1948, Serial No. 6,880
3 Claims. (Cl. 155—14)



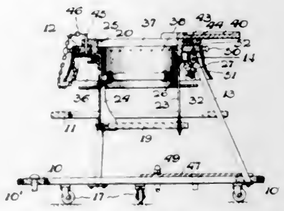
1. An adjustable seat comprising a supporting structure spaced side rails, a seat structure movable fore and aft on the rails, motion directing means for securing translatory motion of the seat structure and including a transverse shaft journaled on one structure and having its opposite ends geared to the companion structure to equalize the motion of the seat at its opposite sides with respect to said supporting structure, a fluid motor having a piston fixed to said shaft and operating in a chamber, and a control for the motor including means at one side for locking the two structures together when the motor is inoperative and acting through the motion equalizing power shaft to hold the structure at the opposite side in its adjusted position.

2,665,741
EXPOSED FILING AND RECORD KEEPING EQUIPMENT
Norman J. Spindler and Carl O. Peterson, Jamestown, N. Y., assignors to Watson Manufacturing Company, Inc., Jamestown, N. Y., a corporation of New York
Application August 16, 1951, Serial No. 242,136
5 Claims. (Cl. 155—14)



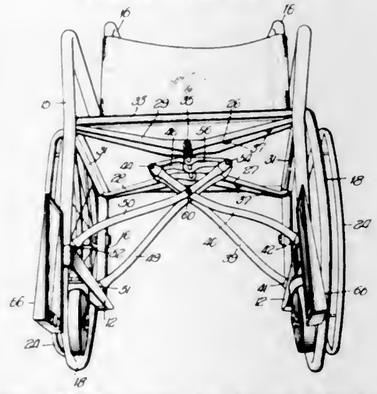
1. In a file clerk conveyance for use with elongated filing equipment having a wheel mounted carriage, means constraining movement of said carriage to the direction of the length of the equipment with which it is associated; a seat carrying pedestal on said carriage, the top wall of said pedestal having a slot extending transversely to the direction of movement of said carriage, a bar mounted for slidable movement located beneath said slot, a sleeve carried by said bar projecting through said slot and above said pedestal, a seat supporting post projecting into said sleeve, an index plate carried by said bar, and manually controlled means engageable with said plate at selective points whereby to secure said bar in any slidable position.

2,665,742
COMBINATION BABY WALKER AND HIGH CHAIR
Charles Starysky, Sheridan, Mont.
Application November 10, 1950, Serial No. 195,018
3 Claims. (Cl. 155—24)



1. A device for children, comprising a pyramidal frame formed of vertically spaced apart rings, said rings including a large size base ring, a middle size middle ring and small size top ring, angular vertically extending brace bars connecting the rings together, an arm rest ring concentrically supported within said top ring, a bearing flange carried by the arm rest ring, a seat rigidly suspended from said flange, angular vertically adjustable bearing brackets secured to the inner top sides of each of said brace bars, a bearing mounted in each of said brackets supporting the arm rest ring by engagement with the underside of said bearing flange, a guard member secured to the seat mounting below the bearing brackets, a protective tubular lining secured to the inner bore of the arm rest ring extending toward the said seat, an adjustable elastic body strap for centering an undersize child in the center of the arm rest, and caster supporting means for said pyramidal frame with respect to the floor or the like.

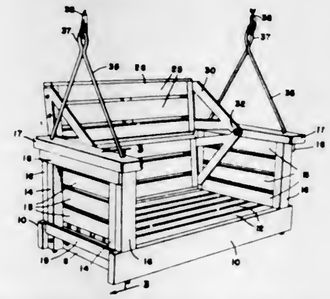
2,665,743
FOLDING WHEEL CHAIR
Dale L. Cosper, South Bend, Ind., assignor to Versal Inc., South Bend, Ind., a corporation of Indiana
Application September 30, 1950, Serial No. 187,814
7 Claims. (Cl. 155—30)



1. In a wheel chair, a pair of side frames, wheels connected to the side frames, a seat, seat

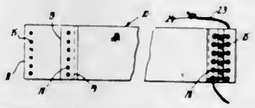
support members pivotally connected to each of the side frames, said members being pivotally connected to each other adjacent the center line of the chair, the pivotal connection of the seat support members comprising a pivot pin extending along the center line of the chair, brace members pivotally connected to lower portions of the side frames and extending diagonally upward below the seat, and link members connecting the upper ends of the brace members to the pivot pin.

2,665,744
CONVERTIBLE SWING AND ROCKING CRIB
George H. Hodgson, Tampa, Fla., assignor to E. L. Dawson, Rattlesnake, Fla.
Application March 2, 1950, Serial No. 147,237
5 Claims. (Cl. 155—44)



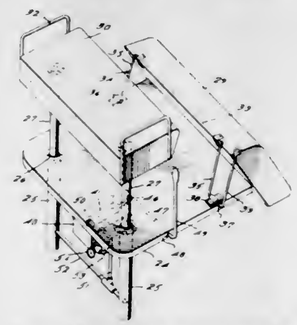
1. In an article of furniture, a bottom construction including longitudinally extending spaced side rails, upstanding end frames fixed on the ends of the bottom construction and including flat arm rests, ground engaging members having upstanding standards, means slidably mounting said standards in the end frames, releasable locking means retaining said standards in position in the end frames, a pair of side frames, each frame having parallel longitudinal rails connected by end bars, triangular brackets fixed at their major ends to the end bars and having offset minor ends, the brackets extending inwardly of the end frames and the bracket on the end of one frame overlapping at its minor end the bracket on the adjoining end of the other frame, pivot pins disposed through the overlapping minor ends of the brackets and secured in the arm rests, said side frames seating at one of their rails on the side rails of the bottom construction and extending upwardly and outwardly therefrom.

2,665,745
COVER HAVING MEANS FOR REMOVABLY ATTACHING SAME
Salvatore A. Lo Vico, Astoria, N. Y.
Application June 15, 1948, Serial No. 33,206
2 Claims. (Cl. 155—119)



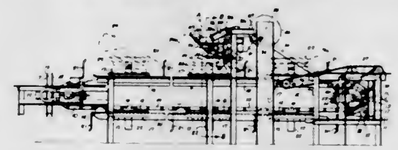
1. An article of manufacture comprising, in combination, a strip of flexible material folded at one end to provide a first two-ply flap, means securing the plies of said flap together at the inner end thereof, said strip being folded a second time to provide a second two-ply flap projecting from said inner end of said first flap and independently movable with respect to said first flap, a first row of grommets at the outer extremity of said first flap and extending through the two plies thereof, a second row of grommets interposed between said securing means and the outer edge of said second flap and extending through the two plies of the latter, and flexible means removably threaded through said grommets and forming said flaps into a tube, said first flap having a length substantially exceeding the length of said second flap.

2,665,746
CHILD'S AUXILIARY SEAT FOR BARBER CHAIRS
Rob R. Darter, Sikeston, Mo.
Application June 4, 1951, Serial No. 229,831
4 Claims. (Cl. 155—132)



1. In a chair of the character set forth a seat comprising a base, a cushion unit thereon comprising a forward portion and a rear portion, the rear portion constituting an auxiliary seat, means for elevating the rear portion from the base, and pivoted means coupling the forward portion to the base and adapted when actuated in one direction to move said forward portion forwardly and downwardly from the base, so that it will be free of contact with the feet of a child occupying the auxiliary seat.

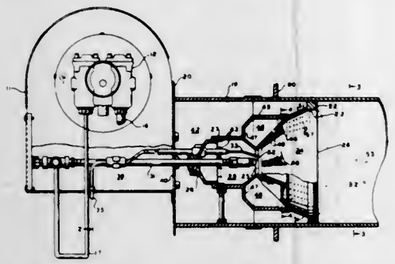
2,665,747
AUTOMATICALLY ADJUSTABLE TIRE MOUNTING MACHINE AND CONVEYER
Homer S. Harrison, Detroit, Mich., assignor to Allied Steel and Conveyors, Inc., Detroit, Mich., a corporation of Michigan
Application May 25, 1949, Serial No. 95,330
18 Claims. (Cl. 157—1.1)



1. A tire mounting machine comprising a conveyor adapted to carry wheels having tires partially inserted between the rims of the wheel, and a mounting head in the path of said conveyor adapted to force the rest of the tire between the rims into mounted position as said wheel passes under said mounting head, characterized by said mounting head being movable, mechanism responsive to individual wheel width for determining the operating location of said

mounting head relative to said conveyor in a manner adapted to accommodate wheels of different width, and mechanism for holding said mounting head at its proper location for any wheel width passing thereunder against tire mounting reaction forces.

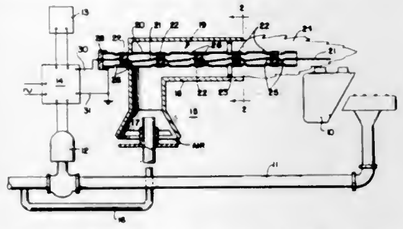
2,665,748
FUEL BURNER
Frank H. Cornelius, Shade Gap, Pa.
Application May 27, 1949, Serial No. 95,789
5 Claims. (Cl. 158—76)



1. Apparatus for burning fuel oil comprising an elongated blast tube, means including a combustion head extending across the tube to prevent the flow of air therebetween past the combustion head which includes a wall defining an internal frusto-conical combustion zone having an inlet opening at the smaller end and an outlet opening at the larger end, wall means in the tube defining with the combustion head and the tube a main plenum on the upstream side of the combustion head, a fan for supplying air to the main plenum, an atomizing nozzle centrally located in the inlet opening for spraying a stream of fuel into the combustion zone, primary wall means defining a primary air plenum at the upstream side of the inlet opening, primary air passages in and extending through the primary wall means and communicating with primary and main plenums whereby air flows from the main plenum through the primary plenum and then through the inlet opening about the nozzle into the combustion zone, and secondary wall means defining a scavenging air plenum about a portion of the combustion head adjacent the inlet, passages in and extending through the secondary wall means in direct communication with the main plenum, a plurality of banks of scavenging air ports arranged about the periphery of the combustion zone, a passage in the combustion head and extending from each port through the combustion head wall and terminating in an inlet port in direct communication with the scavenging plenum, the passages of each bank being tangent to the periphery of the combustion zone.

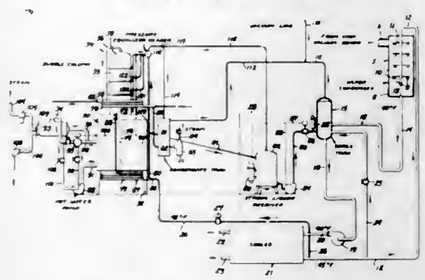
2,665,749
BURNER AND COAXIAL FLAME ROD ASSEMBLY
William H. Ebeltoft, San Francisco, Calif., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 10, 1949, Serial No. 126,592
3 Claims. (Cl. 158—123)

1. A fuel burner assembly comprising a main burner and a pilot burner, means mounting said pilot burner in igniting relation to said main burner, a conduit for feeding fuel to said main burner, a conduit for feeding fuel to said pilot burner, said pilot burner supporting a pilot flame when fuel is supplied thereto and having an end portion adapted to direct the pilot flame into the combustion area of said main burner to thereby ignite said main burner when fuel issues therefrom, a bendable flame rod assembly, means mounting said flame rod assembly within said pilot burner, said flame rod assembly extending through said pilot burner and conforming to the shape thereof, said flame rod assembly extending beyond said end portion into the combustion area of said main burner, said flame rod assembly comprising a hollow cylindrical member of heat resistant metal extending into the combustion area of said main burner, a plurality of spaced insulating members therein, and a rod of heat resistant metal centrally mounted within said



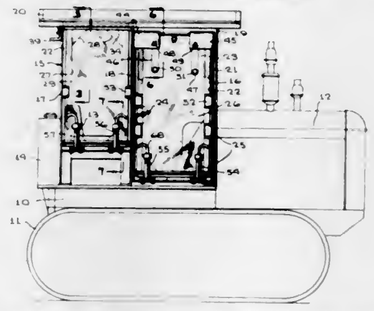
hollow cylindrical member by said plurality of spaced insulators and extending beyond the end of said hollow member into the combustion area of said main burner, the space between said rod and said hollow member forming a flame gap adapted to be bridged by a pilot flame only if of sufficient magnitude to extend into the combustion area of said main burner, detecting means including a pair of terminals, said detecting means indicating the presence of a burner flame when a predetermined electrical circuit has been completed between said pair of terminals, and means connecting said hollow cylindrical member to one of said pair of terminals and said rod to the other of said terminals to complete said circuit only when a flame of sufficient magnitude to ignite said main burner is present at said pilot burner.

2,665,750
VACUUM CONCENTRATOR
Walter Kals, New York, N. Y., assignor to Niagara Blower Company, New York, N. Y., a corporation of New York
Application April 3, 1948, Serial No. 18,765
7 Claims. (Cl. 159—23)



1. A concentrator for maintaining the strength of an antifreeze component of liquid serving an apparatus maintained at low absolute pressure, comprising an enclosed concentrating tank, a conduit conducting said liquid from said apparatus to said concentrating tank, said conduit being formed to provide a U-shaped liquid leg providing a liquid seal between said apparatus and said concentrating tank, means applying heat to the liquid in said concentrating tank to evaporate the same, a conduit returning the concentrated liquid from said concentrating tank to said apparatus, an ejector withdrawing the waste vapor generated in said concentrating tank and a vacuum line having an open end immersed in the body of liquid contained in said concentrating tank and maintained at a higher absolute pressure than said apparatus.

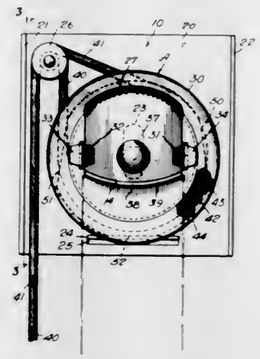
2,665,751
TRACTOR CAB WITH CLOSURE CURTAINS
Morris D. Parkinson, Rexburg, Idaho
Application November 23, 1951, Serial No. 257,873
2 Claims. (Cl. 160—23)



2. In a vehicle door or window structure, a frame having opposed side members and transverse members extending between the side members and spaced from each other therealong, a curtain roller rotatably mounted on the frame and extending along one of the transverse members, a flexible curtain having one end secured to the roller and a free end, the roller being rotatable to roll the curtain thereon, said roller being positioned outwardly of one side of said frame, and a curtain receptacle fixed on said frame and extending along said one transverse member and projecting from said one side of the frame and normally enclosing the curtain roller with the curtain rolled thereon, a stiffening rod fixed on the said free end of the curtain, and releasable retaining means mounted on the other transverse member of said frame, said retaining means comprising finger means engageable with said stiffening rod in an unrolled position of the curtain and serving to releasably hold the curtain in unrolled position along the said one side of the frame.

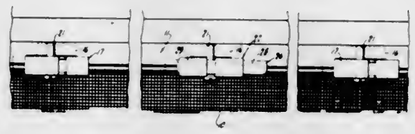
2,665,752
VENETIAN BLIND CONSTRUCTION
Harry S. Rosenbaum, Baltimore, Md., assignor to The Eastern Venetian Blind Company, Baltimore, Md., a corporation of Maryland
Application July 27, 1951, Serial No. 238,803
10 Claims. (Cl. 160—175)

1. In a Venetian blind tilt assembly, a plate having a vertically disposed slot formed therein, a horizontal shelf formed integral with said plate, a cord receiving pulley secured to said plate, a wheel disposed on said shelf, a pin secured to said wheel and extending through said slot for securing said wheel to said plate for vertical movement therewith, said wheel having a rear flange and a front flange, said rear flange being formed with flat portions equally spaced therearound, a tilting slat secured to said front flange, said flat portions formed on said rear flange defining different angular positions of said tilting slat, and an operating cord engaging said pulley and secured to said front flange, said operating cord rotating and



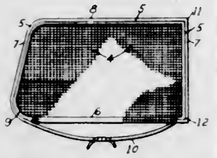
lifting said wheel so that the desired flat portion of said rear flange engages said shelf, said tilting slat rotating with said wheel to effect a desired angular position.

2,665,753
SCREEN HOLDING STRIP SECURING MEANS
Albert Lang, Oakland, Calif.
Application April 17, 1950, Serial No. 156,353
2 Claims. (Cl. 160—327)



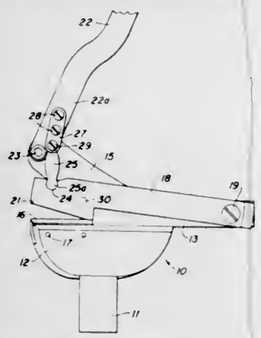
1. A top screen edge holding assembly, adapted to be mounted on the upper end of a window frame, comprising a headed retainer adapted to be secured to the upper end of the window frame and extend downwardly from the downwardly facing surface of said upper end, a top holding strip supporting member slidably but non-tiltably mounted on the headed retainer and having a dimension in the direction of the length of the retainer less than the distance from the headed end of the retainer to the downwardly facing surface of the upper end of the window frame so as to be spaced from said surface, a top screen edge holding strip having its lower margin reversely bent for holding the upper end of a frameless window screen and having its upper portion formed with a flat face for sealing engagement with the outer face of the upper end of the window frame, said supporting member being connected to the top holding strip for holding it in a position for sealing engagement of said flat face with the mentioned outer face of the window frame, whereby the tension of the screen will pull the supporting member down against the head of the retainer and away from the downwardly facing surface of the window frame, but said supporting member will be prevented from tilting by its non-tiltable engagement with the retainer, said supporting member having an L-shaped slot formed therein to permit lateral removal thereof from the retainer.

2,665,754
SCREEN ON AUTOMOBILE AND TRUCK WINDOWS
Richard H. Claussen, Gary, and Robert J. Claussen, Hammond, Ind.
Application August 1, 1951, Serial No. 239,672
4 Claims. (Cl. 160—354)



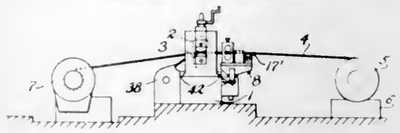
1. A flexible auto window screen which comprises an area of flexible screen material to cover a window opening in a motor vehicle, an elastic edging secured to the top and end edges of said screen, an extension of said edging continuing slightly inwardly from the lower end of one end edge portion, a binding edge along the bottom of said screen, and a draw string connecting said extensions.

2,665,755
COMPOUND LEVERAGE METAL-CUTTING SHEARS
Robert H. McCoy, Salt Lake City, Utah
Application February 14, 1950, Serial No. 144,111
2 Claims. (Cl. 164—46)



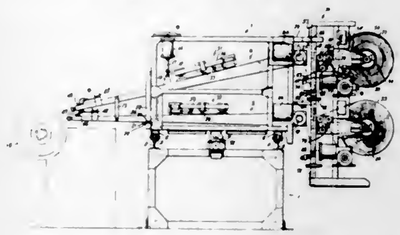
1. Metal-cutting shears, comprising a normally stationary jaw structure; a blade carried by the forward portion of said jaw structure in fixed relationship thereto, said jaw structure having a laterally offset mounting portion disposed rearwardly of the blade; a mounting arm fixed to said offset mounting portion and extending forwardly therefrom to a location spaced above and at substantially the forward end of the blade; an elongate movable jaw pivoted at one end to said offset mounting portion and extending forwardly substantially coextensively with the blade and the forward extension of said mounting arm and disposed within said laterally offset mounting portion of the stationary jaw structure; a blade carried by the forward portion of said movable jaw in cutting relationship with the first-named blade; an elongate operating handle having one of its ends pivoted to the forward end of said mounting arm above the forward end of said movable jaw, and extending rearwardly therefrom; a pair of transverse, substantially cylindrically-formed, open-ended grooves recessed into opposing faces of the said operating handle and the said movable jaw, respectively, and extending from side-to-side thereof, said grooves being disposed substantially the same distance rearwardly of but closely adjacent the pivotal connection of the operating handle to the mounting arm; a strut interposed between said operating handle and said movable jaw, as a power-transmitting, articulative link, said strut having opposite ends substantially cylindrically formed and articulatively inset into said grooves of the operating handle and the movable jaw, respectively; and means for holding said strut in operative position.

2,665,756
ENTRY TABLE FOR SLITTING MILLS
Ralph W. Hall, Cincinnati, Ohio, assignor to The Randall Company, Cincinnati, Ohio, a corporation of Ohio
Application January 4, 1951, Serial No. 204,431
2 Claims. (Cl. 164—61)



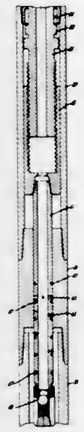
1. A slitting mill comprising a frame carrying cutter arbors, an entry table adapted to provide free access to the cutter arbors of the mill, said table comprising an entry frame at the entrance side of the mill in front of said cutter arbors and independent of said arbor carrying frame and having pinch rolls journaled thereon substantially parallel with and at substantially the same elevation as the cutter arbors, a vertical bearing at one side of the entry frame, and a vertically extending trunnion carried at one end of the entry table and rotatable in said bearing for supporting said table cantilever fashion whereby the table may be swung in a horizontal plane from working position at the entrance to the mill to a position at one side of the mill and substantially parallel to the line of feed to the mill.

2,665,757
AUTOMATIC MEASURING AND CUTTING PLY FEEDER
Horace D. Stevens and Herbert H. Waters, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application January 7, 1949, Serial No. 69,704
1 Claim. (Cl. 164—75)



In a machine for cutting sheet material on the bias, in combination, a fixed tray, means for delivering sheet material along the tray, a knife carriage supported on the tray and having a knife arranged for movement angularly to the longitudinal extent of the tray, a pair of limit switches engageable by the sheet material to stop the sheet delivering means and said switches located at different distances from said knife carriage, and means to render said switches operative alternately.

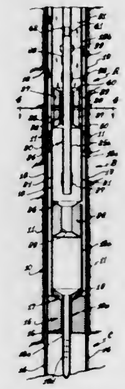
2,665,758
ADJUSTABLE FLOW BEAN
Mordica O. Johnston, Glendale, and Harry C. Skipper, Montrose, Calif., assignors, by mesne assignments, to Johnston Testers, Inc., Houston, Tex., a corperation of Delaware
Application September 11, 1951, Serial No. 246,086
3 Claims. (Cl. 166—1)



1. A device of the class described, comprising an upper tubular mandrel formed at its upper end for securement to the lower end of a drill string or the like to be rotatable therewith, a housing telescopically and rotatably receiving the upper mandrel and connected at its lower end to a packer assembly adapted to be set in a well bore or casing, a nut threadedly engaging the upper mandrel and slidably but non-rotatably engaging the housing, adapted upon rotation of the upper mandrel to be forced downwardly, a lower tubular mandrel carried by the nut and slidably received by a small bore formed in the housing, said lower mandrel having a plurality of vertically spaced passages formed in the walls thereof and normally closed by the walls of the small bore, said passages progressively increasing in size from the lowermost to the uppermost thereof, said housing having an enlarged bore therein into which the lower mandrel is adapted to be progressively projected to progressively expose the passages from the lowermost to the uppermost as the drill string is rotated, and means for releasably locking the upper mandrel and housing against relative rotation, including a key on the upper mandrel engaging a keyway formed on the housing and movable out of alignment with the keyway upon downward movement of the upper mandrel relative to the housing.

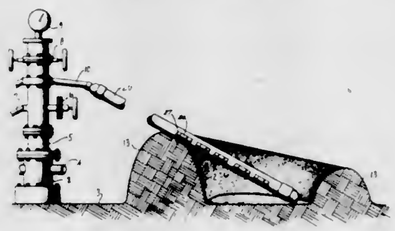
2,665,759
METHOD AND APPARATUS FOR COMPLETING MULTIPLE PRODUCTION ZONE WELL BORES
Roscoe O. Childers, Oklahoma City, Okla., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application December 27, 1948, Serial No. 67,346
14 Claims. (Cl. 166—2)

1. In apparatus of the character described: an outer casing string having upper, intermediate and lower longitudinally spaced openings; an intermediate casing string within said outer string having upper and lower longitudinally spaced openings communicating with said intermediate and lower openings, respectively, of said outer string; a first plug means between the intermediate and lower openings of said outer string and between the upper and lower openings of said intermediate string for bridging the annular space between said outer and intermediate casing strings; a second plug means between said upper and intermediate openings of said outer string and located above the upper opening of said intermediate string for bridging the annular space between said outer and intermediate casing strings above said upper opening of said intermediate string; said intermediate casing string



having a port above said second plug means; a third plug means in said intermediate casing string between the upper and lower openings of said intermediate string, said third plug means having a passage therethrough; and a longitudinally movable tubular string within said intermediate string adapted to close said port and to engage said third plug means in leakproof relation when said port is closed to prevent flow of fluid through the passage of the third plug means and around the exterior of the tubular string, said tubular string having a lower opening communicating with the lower opening of said intermediate casing string.

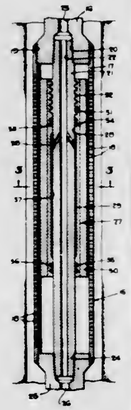
2,665,760
PRESSURE DISSIPATING MANIFOLD FOR BRINGING IN WELLS
James F. Hulsey, Hamlin, Tex.
Application May 31, 1950, Serial No. 165,348
1 Claim. (Cl. 166—2)



A device for dissipating the well pressure and fluids at the time of completing the well for production comprising a conduit connected to the well, a manifold pipe of larger diameter than said conduit, a plurality of outlet nipples extending laterally in spaced relation along said manifold, the size of said nipples being such that the total

discharge area substantially exceeds the cross sectional area of said conduit and also of said manifold so that the pressure at each nipple is reduced to avoid spraying the fluid discharge, and a cross head on each nipple to discharge longitudinally of said manifold so that the discharge of two adjacent cross heads intersect and dampen the spray effect each of the other.

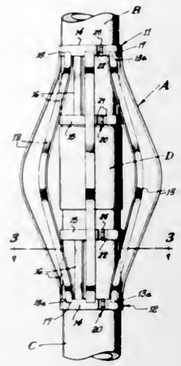
2,665,761
BACK SCUTTLING VALVE
Frank E. O'Neill, Los Angeles, and Mordica O. Johnston, Glendale, Calif., assignors, by mesne assignments, to Johnston Testers, Inc., Houston, Tex., a corporation of Delaware
Application December 12, 1949, Serial No. 132,482
5 Claims. (Cl. 166—4)



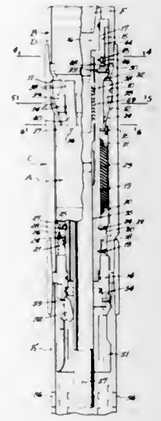
1. A back scuttling valve comprising a tubular valve housing having a port formed therein for admitting fluid to within the housing, a tubular sub connected to each end of the housing for connection to opposed sections of drill pipe or the like, a tubular mandrel disposed within the housing and connected at its opposite ends to the subs and having the interior thereof communicating with the interiors of the subs, said mandrel having a port formed therein, a sleeve slidably mounted on and threadedly engaging the mandrel and covering the port in the mandrel when in its initial position and adapted to be submerged in the fluid admitted by the port in the housing, and means on the sleeve resisting rotary movement of the sleeve relative to the fluid in which it is submerged operable upon rotation of the drill string to retard rotary movement of the sleeve and thereby cause threading of the sleeve along the mandrel to uncover the port in the mandrel.

2,665,762
CASING CENTERING DEVICE
William S. Althouse, Jr., Arcadia, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application August 28, 1951, Serial No. 243,975
3 Claims. (Cl. 166—4)

1. In centering devices adapted to be mounted on well conduits: longitudinally spaced supporting members; preformed circumferentially spaced, outwardly bowed springs extending between and carried by said supporting members: each spring including a central outwardly convex curved portion and outwardly concave end portions; each spring also having an intermediate straight portion of extended length extending between said central portion and each end portion.

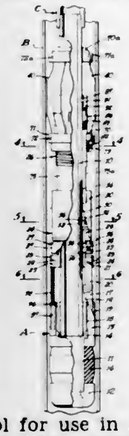


2,665,763
WELL PACKER APPARATUS
Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application April 23, 1948, Serial No. 22,887
17 Claims. (Cl. 166—12)



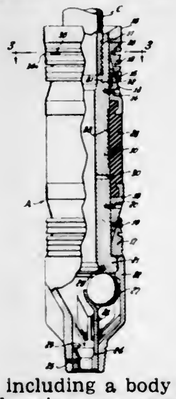
1. In a well tool: a body adapted for lowering in a well conduit on a running-in string; tubular means slidable on said body; an outwardly expansible leaf spring on said tubular means engageable with a shoulder in said conduit for preventing movement of said tubular means in one direction; slip means on said body engaged and movable by said body in said one longitudinal direction toward said tubular means and into engagement with said conduit for preventing movement of said body in the opposite longitudinal direction; and means securing said body against longitudinal movement with respect to said leaf spring and slip means when said leaf spring and slip means are both engaged with said conduit to prevent longitudinal movement of said tubular means in one direction and said body in the opposite longitudinal direction.

2,665,764
RETRIEVABLE SUBSURFACE WELL TOOL
Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Los Angeles, Calif., a corporation of California
Application January 6, 1950, Serial No. 137,164
18 Claims. (Cl. 166—12)



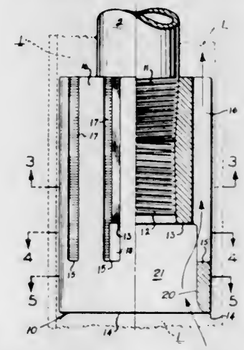
1. In a well tool for use in a well conduit: a first member adapted for connection to a tubular string; a second member telescopically arranged with respect to said first member; means for transmitting the turning effort of said first member to said second member; conduit engageable means cooperable with said second member for resisting movement of said second member in said well conduit; means comprising a threaded connection between said conduit engageable means and second member for moving at least part of said conduit engageable means longitudinally of said members upon rotation of said first member and second member; friction brake means between said second member and conduit engageable means for resisting movement of said second member relative to said conduit engageable means, said friction brake means comprising a brake ring engaging a thread of said threaded connection.

2,665,765
SEGMENTAL SLIP SUBSURFACE WELL TOOL
Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application April 3, 1950, Serial No. 153,540
7 Claims. (Cl. 166—12)



1. A well tool, including a body adapted to be lowered in a well casing on a running-in string, means for anchoring said body to the well casing comprising a set of segmental slips having a circumferential groove therein, individual elements in said groove separate from each other for maintaining said slips in transverse alignment with respect to each other, each element extending from one segmental slip to an adjacent segmental slip and being at least as wide as the distance between the opposed side walls of the groove so as to be held in position by simultaneously frictionally engaging both of the opposed side walls of said groove.

2,665,766
PIPE CLEANING TOOL
Varney S. Harlin, Oklahoma City, Okla.
Application October 3, 1949, Serial No. 119,342
3 Claims. (Cl. 166—18)

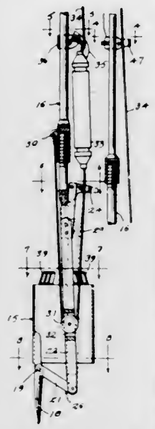


1. A deposit removing tool for use in well casing, and adapted to be run on a string of production tubing ahead of a well packer to form a continuation of the production channel of the string, including: an elongated tubular body which is open at both ends; a central core section of the body internally threaded to receive the adjacent ends of tubing string sections above and below the same; a lower depending annular skirt section of greater internal diameter than the external diameter of the core section; a circular cutting edge on the lower end of said skirt section; openings in the wall of said skirt section below said core section, and around the lower section of tubing, said openings providing a path for paraffin scraped from the well casing; and circumferentially spaced vertical slots in the exterior surface of said body and in communication with said wall openings to form a continuation of said path for paraffin.

2,665,767
DEVICE FOR REMOVING QUICKSAND, SILT, OR THE LIKE FROM WELLS
James M. Green, Hayti, S. Dak.
Application March 10, 1952, Serial No. 275,826
4 Claims. (Cl. 166—19)

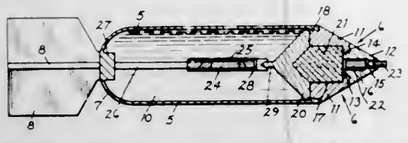
1. A device for removing sand, silt or the like from wells, comprising a bucket formed of a cylindrical member, a closure hingedly carried by the lower end of said member, a stem fixed to and extending upwardly from said member, cooperative latch means carried by said stem and said closure for holding the closure in vertical open position, a flexible suspension member secured at one end to said stem and extending upwardly therefrom and movably connected with said latch means, and a weight carried by said flexible member relaxing of said flexible member permitting

said weight to gravitate downwardly and move said first-named latch means to released position



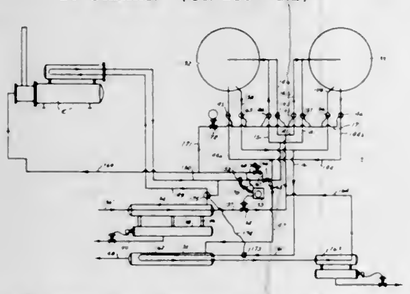
whereby upward pull of said flexible member will pull said closure to closed position.

2,665,768
FIRE EXTINGUISHING BOMB
Lee I. Talbot, Livermore, Calif.
Application September 14, 1951, Serial No. 246,544
6 Claims. (Cl. 169—36)



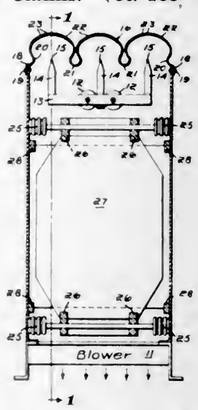
1. A fire extinguishing bomb comprising a frangible shell, water within the shell, a driving head within the shell adjacent one end thereof, a detonating mechanism and explosive secured to the mentioned end of the shell, a second explosive mounted within the shell, and a firing pin for said latter explosive carried by the driving head.

2,665,769
METHOD AND APPARATUS FOR REMOVING CONDENSIBLE FLUIDS FROM GASEOUS STREAMS
Jay P. Walker and Clarence O. Glasgow, Tulsa, Okla., assignors to National Tank Company, Tulsa, Okla., a corporation of Nevada
Application April 12, 1948, Serial No. 20,446
10 Claims. (Cl. 183—4.1)



1. The method of removing condensible fluids from gaseous streams of varying volume of flow which includes passing the major portion of the gaseous stream through a first sorptive zone in a continuous fashion, drawing off a minor portion of the gaseous stream of substantially constant volume prior to the introduction of the latter into the sorptive zone, reducing the pressure of the major portion of the gaseous stream subsequent to the drawing off of the minor portion of the gaseous stream, heating the minor portion of the gaseous stream, continuously measuring the rate of flow of the minor portion and continuously regulating the reduction in pressure of the major portion of the gaseous stream in accordance with the rate of flow of the minor portion thereof, passing the heated minor portion of the gaseous stream through a second sorptive zone, cooling the minor portion of the stream by passing the same in heat exchange relationship with the major portion of the stream, then removing condensible fluids from the cooled minor portion of the gaseous stream subsequent to its passage through the second sorptive zone, and then conducting the minor portion of the gaseous stream into the major portion of said stream subsequent to the pressure reduction of the latter.

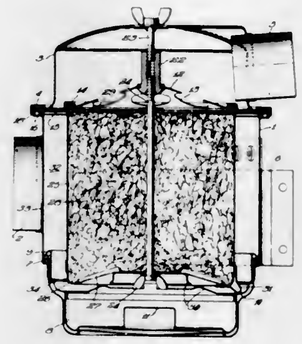
2,665,770
ELECTROSTATIC PRECIPITATOR
Earl L. Richardson, Hyde Park, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 30, 1951, Serial No. 253,830
12 Claims. (Cl. 183—7)



1. An ionizer for an electrostatic precipitator comprising spaced-apart walls forming a gas passage having a gas inlet, a pair of spaced-apart ionizer wires insulatedly supported from said walls, and a combined perforated baffle and non-discharging ionizer electrode sheet-like member extending across said inlet and secured to said walls, said member having a metallic surface facing said wires and having portions extending across the space between said wires and having other portions extending alongside said wires.

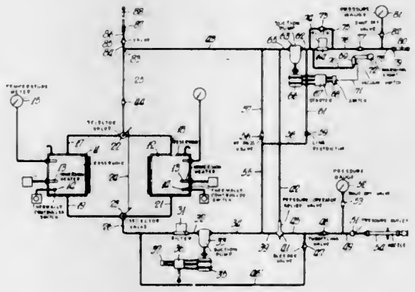
2,665,771
UNDERWATER AIR CLEANER
Joseph B. Sebok, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application February 18, 1952, Serial No. 272,154
7 Claims. (Cl. 183—15)

1. In an air cleaner, a casing having an open upper mouth end, a removable cover therefor, an apertured retaining plate, cooperative interlocking means on said plate and the mouth of said casing, a filter unit depending from said plate inside said casing, said casing having a closed bottom, an annular gasket in said casing adja-



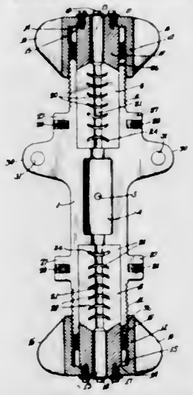
cent said bottom, a cleansing liquid cup in said casing having a margin for engagement with said gasket, and projecting feet on said filter unit to contact said cup and force the same into sealing relationship with said gasket.

2,665,772
SERVICING EQUIPMENT FOR LUBRICATING SYSTEMS
Edward M. Greer, West Hempstead, and Carl Robert Wetterau, Huntington, N. Y., assignors to Greer Hydraulics, Inc., Brooklyn, N. Y., a corporation of New York
Application June 4, 1951, Serial No. 229,801
10 Claims. (Cl. 184—1.5)



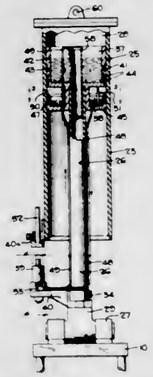
1. Equipment of the character described comprising a pair of reservoirs, each having an inlet and an outlet, a pump, a selector valve to connect either one or the other of said outlets to the input of said pump, a discharge line connected to the output of said pump, a control valve in said discharge line, a second pump, an intake line connected to the input of said second pump, a return line connected to the output of said second pump, a second selector valve to connect said return line to either one or the other of said inlets of said reservoirs, whereby liquid may be forced into the associated reservoir, a by-pass line connected at one end to said discharge line between the output of said first pump and the control valve in said discharge line and connected at its other end to the return line between the output of said second pump and said second selector valve, and a valve in said by-pass line.

2,665,773
LINE LUBRICATOR
Dean W. Osmun, Houston, Tex.
Application April 13, 1950, Serial No. 155,668
4 Claims. (Cl. 184—15)



1. A line lubricating device comprising separable sections adapted to be closed about a line and forming when closed a body having an axial, line-receiving passageway and a lubricant chamber mediate the ends of the passageway, resilient packing members in the sections surrounding said line beyond each end of said chamber, each of said members having a plurality of wiping portions adapted to engage said line in lubricant sealing relation, means carried by the sections and engageable with said packing members between said wiping portions for retaining said members in the sections and adjustable means on said body for compressing said packing members to tighten said portions on said line, each of said adjustable means having an axial, line-receiving opening therethrough and a slot through which the line may enter the opening.

2,665,774
PISTON LUBRICATING MEANS
Edgar W. Patterson, Downey, Calif.
Application June 27, 1949, Serial No. 101,619
8 Claims. (Cl. 184—18)



1. In an air balance for a well pumping unit having a base and a walking beam mounted thereon for vertical movement and from which a sucker rod is suspended in the well, the combination of: a cylinder, one end of which is closed and the other end of which is open, said cylinder having means for pivotally connecting

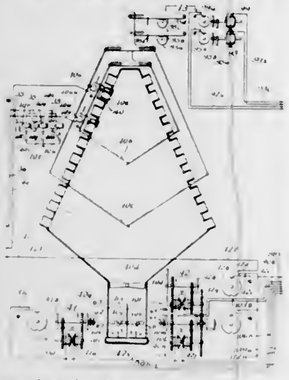
its closed end to said beam, with its other end opening downwardly; a piston slideable in said cylinder and forming a reservoir for oil, there being passage means for oil to flow from said reservoir to the meeting faces of said piston and said cylinder to lubricate said faces; a piston rod united with said piston, said rod extending downwardly out of said cylinder and having means for pivotally mounting said rod on said base; means for admitting air under high pressure to the interior of said cylinder above said piston, oil in said reservoir being subjected to the pressure of said air; an oil collector carried on said rod below said piston and fitting said cylinder walls closely to scrape from the latter oil escaping downward past said piston when said cylinder reciprocates with respect to said piston and said collector; a pump mounted on a lower portion of said piston rod; an actuator carried by said cylinder and engaging said pump to actuate the same; a suction line connecting said oil collector with the suction side of said pump, and a discharge line leading from the discharge side of said pump and opening into said oil reservoir, whereby actuation of said pump will withdraw oil from said oil collector and discharge the same into said oil reservoir.

2,665,775

MECHANIZED MERCHANDISING SYSTEM

Clyde Smith, Hopkinsville, Ky.

Application March 25, 1950, Serial No. 151,845
36 Claims. (Cl. 186—1)



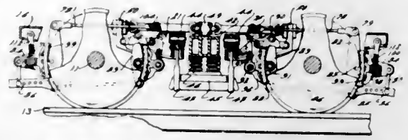
1. In a mechanized merchandising system, the combination with means for stocking items of merchandise at an elevation relative to a conveyor for gravitation onto the latter, and electromagnetic release means operable to free said items for movement one at a time onto said conveyor of the following, namely: selective release-operating means comprising a plurality of motor-feeds for cards each perforated to correspond to a stocked item, operator-initiated means for actuating said feeds selectively to effect feeding said cards one at a time sequentially into a sensing position, plural perforation-sensing means for each feeding means and circuit apparatus actuated thereby automatically operable to close a selecting circuit to a corresponding release means when said cards are in sensing position, means defining a plurality of channels on said conveyor, motor-driven selector baffle means operable to direct released goods to any of said channels, and selecting circuits actuated under control of said release operating means for determining the sequential order of operation of said selector baffle means, whereby the released goods are directed to certain conveyor channels in a certain order.

2,665,776

BRAKE RIGGING SUSPENSION

Robert N. Janeway and William Van Der Sluys, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application November 13, 1948, Serial No. 59,864
3 Claims. (Cl. 188—56)



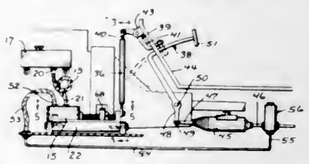
1. In a pedestalless type railway car truck comprising a pair of transversely spaced, longitudinally extending, side frames each having a pair of transversely extending, axle receiving openings therein, said openings having wheel axle bearing units mounted therein, one opening being located adjacent each end of each side frame, axles extending between and supporting the bearings at corresponding ends of the side frames so as to provide a solid mounting of the side frames on the axles, wheel mounted on each end of each axle, relatively stiff resilient members mounted on each side frame adjacent each end axle receiving opening, a relatively soft resilient member supported by each pair of relatively stiff resilient members and located at a point substantially midway between said relatively stiff resilient members, a frame member extending between and floatingly mounted on said relatively soft resilient members and being free of association with the wheel axles and side frames except through the relatively soft frame supporting resilient elements, and clasp type brake shoes positioned adjacent each side of each wheel adapted to be clampingly engaged with the rolling surface thereof, the brake shoe on one side of each wheel being suspended by a pivotally mounted rigid link from said frame member and the brake shoe on the opposite side of each wheel being suspended by a pivotally mounted rigid link from one of said side frames.

2,665,777

AUXILIARY HYDRAULIC BRAKE SYSTEM

Steve Joanis, Windsor, Ontario, Canada

Application April 28, 1950, Serial No. 158,739
3 Claims. (Cl. 188—152)



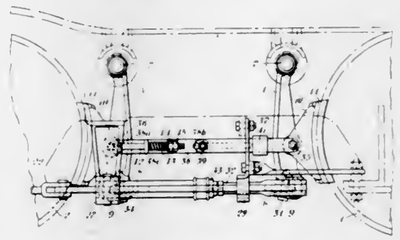
1. In a hydraulic brake system for motor vehicles, a main hydraulic brake system, an auxiliary hydraulic brake system, an auxiliary hydraulic pump having a shaft, an emergency fluid tank connected to said auxiliary hydraulic pump, a motor, a fly wheel connected to said motor, foot brake, a pedal connected to said foot brake, a master cylinder connected to the main fluid line of the main hydraulic brake system, a check valve connected to the main fluid line and to the rear of said master cylinder, an auxiliary fluid line connected to said auxiliary hydraulic pump and leading therefrom to and connecting with said check valve, said check valve being adapted to contain the emergency fluid within said auxiliary fluid line during normal operation of said master cylinder and to permit entry of the emergency fluid into the valve to be directed therethrough and into the main fluid line for distribution to and operation of the hydraulic brake cylinders of the hydraulic brake system, a drive wheel fixedly mounted to the shaft of said auxiliary hydraulic pump, operating mechanism comprising a connecting rod and pivotal lever having connection with said auxiliary pump, the pivotal lever of said operating mechanism adapted to be actuated by the pedal of the foot brake of said vehicle when the same fully depresses due to breakdown in said master cylinder rendering the main hydraulic brake system inoperative, said operating mechanism being adapted to move said auxiliary pump to bring said drive wheel on the shaft thereof into engagement with the rotating flywheel of the motor, the said drive wheel being thus driven by the flywheel to rotate the pump shaft, said auxiliary pump thus being adapted to pump emergency fluid from said emergency tank through said auxiliary fluid line to the main fluid line clear of the inoperative master cylinder.

2,665,778

BRAKE MECHANISM

Emil G. Mueller, Churchill Borough, Pa., assignor to The American Brake Company, Swissvale, Pa., a corporation of Missouri

Application April 21, 1948, Serial No. 22,282
2 Claims. (Cl. 188—197)



2. Brake mechanism for a vehicle having at least two wheels on each side thereof, comprising a brake shoe for each of said wheels, a brake hanger for each of said brake shoes, said brake hangers being located on adjacent sides of said two wheels, a brake head for supporting each brake shoe, a brake head pin for connecting each brake head to its associated hanger, and means interconnecting said brake head pins and wholly supported thereby between the brake hangers, said means including a slotted connection with one of said pins and resilient means connected with the brake head pin of the slotted connection and the interconnecting means for biasing said hangers toward each other in a brake releasing direction.

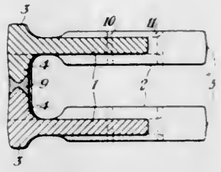
2,665,779

FORGED AND WELDED BRAKE HEAD

Charles G. Smith, Wilkinsburg, and Daniel A. Best, East McKeesport, Pa., assignors to The American Brake Company, Swissvale, Pa., a corporation of Missouri

Application June 29, 1949, Serial No. 101,998
5 Claims. (Cl. 188—236)

1. As a new article of manufacture, a brake head comprising two similar forged parts, each part including a web, a boss formed on the web adjacent one edge, and spaced parallel laterally extending flanges formed on the web adjacent the opposite edge, said flanged edge having bearing surfaces, the flanges of said two parts having facing edges and being welded together along their facing edges to form a box section.

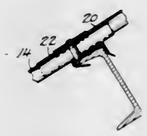


2,665,780

FASTENING MEANS FOR CORRUGATED SHEET MATERIAL

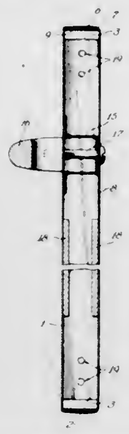
Andrew B. Hammitt, Trenton, and Herbert L. Birum, Jr., Titusville, N. J.

Application January 27, 1951, Serial No. 208,124
2 Claims. (Cl. 189—35)



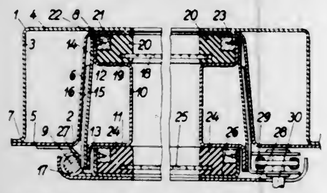
1. A building construction embodying a structural framework element with a flange thereon presenting an outer sheet supporting surface, corrugated sheet material engaging said surface and secured in place on the framework element by preformed fastening means made of resilient material and having a clip portion and a stud portion, said clip portion having a bearing part extending across the sheet supporting surface of said flange between adjacent corrugations of the sheet material and provided at one end with a hook-shaped part embracing the free edge of said flange, the opposite end of the bearing part constituting a retaining part and extending substantially at right angles to the bearing part, said retaining part having an inwardly projecting detent thereon engaging the side of the framework element opposite said free edge of the flange, the extremity of the retaining part being inclined outward below said detent and presenting a surface for camming the retaining part outward on application of the fastening means to the framework by pivotal movement about the free edge of the flange from an unsprung initial position of application to a stressed and sprung applied position wherein the retaining part is located adjacent said opposite side of the framework element and the detent is urged forceably inward toward said opposite side of the framework element and serves to retain the fastening means in place by the inherent resiliency of the material of which said fastening means is made, said stud portion projecting upward from said bearing part and having a rivet member thereon extending through the sheet material, the inner end of said stud portion bearing against said sheet supporting surface of the framework element and the outer end of the rivet member being turned over securing the sheet material to said fastening means.

2,665,781
METALLIC DOOR CONSTRUCTION
Stewart S. Battles and Louis H. Moos, Galesburg, Ill., assignors, by mesne assignments, to Admiral Corporation, Chicago, Ill., a corporation
Application January 12, 1949, Serial No. 70,583
2 Claims. (Cl. 189—46)



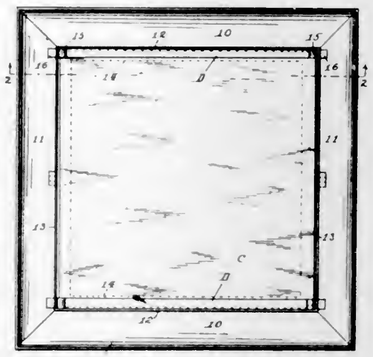
1. A fabricated door comprising front and rear members having flanges formed along the edges, said flanges on the rear door extending at an angle normal to the plane of the panel and being planar in formation, the flanges for the front panel extending rearwardly therefrom adapted to telescope over said flanges on the rear panel and being at an angle to the front panel of greater than 90 degrees to a point beyond the midsection in the direction of thickness of the door and inclining at an obtuse angle from the front portion to provide a free edge for engagement with the flange on the rear panel adjacent the panel.

2,665,782
CLOSURE CONSTRUCTION FOR WALL OPENINGS
Arnold Löbl, Vienna, Austria
Application June 25, 1951, Serial No. 233,333
Claims priority, application Austria June 28, 1950
3 Claims. (Cl. 189—65)



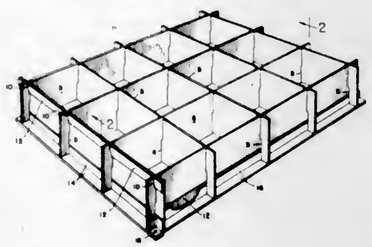
1. A closure construction for a wall opening comprising an outer frame, a casement frame of box section mounted in said outer frame and having an outer end wall and an inner end wall, said outer frame having a flange adjacent to and spaced from said outer end wall, resilient sealing strips provided between said outer end wall and said flange and adapted to seal said outer end wall against said flange, a panel held in said casement frame by said sealing strips between said outer end wall and said flange, an inner frame mounted in said outer frame adjacent to and spaced from said inner end wall, resilient sealing strips provided between said inner end wall and said inner frame and adapted to seal said inner end wall against said inner frame, and a panel held in said inner frame by said sealing strips between said inner end wall and said inner frame.

2,665,783
MEANS FOR SECURING LIGHT TRANSMITTING PANES IN WINDOW FRAMES
Ralph Pryne, Pomona, Calif.
Application August 26, 1950, Serial No. 181,658
1 Claim. (Cl. 189—78)



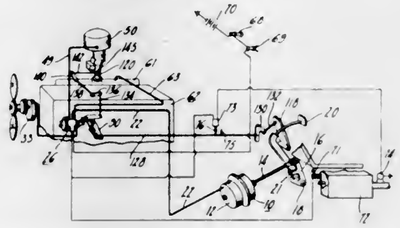
In a window frame having a pair of outstanding side portions provided with a pair of opposed openings, ledges integral with said sides and extending inwardly thereof below said openings, a light-transmitting pane supported in said frame on said ledges between said sides with its edge portions below said openings, a spring clip engaged lengthwise across the back of said pane and having its end portions engaged through said openings, said clip having spring-stop, inverted-U-shaped loops adjacent its opposite ends normally engaging said sides under spring pressure and preventing lengthwise looseness of the clip between the sides of said frame and with the area adjacent the inwardly disposed top of the U pressing against the pane.

2,665,784
LIGHTING LOUVER
Kenneth B. Lacy, Highland Park, Ill., assignor to Lighting Products, Inc., Highland Park, Ill., a corporation of Illinois
Application April 20, 1949, Serial No. 88,595
5 Claims. (Cl. 189—82)



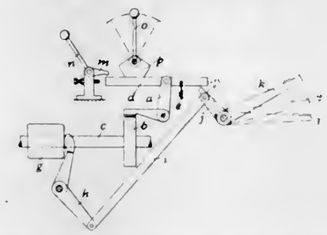
1. A lighting fixture louver, comprising a plurality of flexible flat strips each having spaced slots cut from one edge thereof and the strips reversely assembled in two series with the strips of one series being angularly disposed with respect to those of the other and with body portions of strips of each series fitting in the slots of the strips of the other series and forming a rectangular cellular structure having intersecting side edges, locking means engaging the sides of the outermost strips and interlocked with the ends of all strips and holding all strips against disengagement, and angular supporting means engaged in the outer slots of the strips in two adjacent edges of the structure holding the strips in rectangular assembled position.

2,665,785
CLUTCH CONTROL MECHANISM
Edwin E. Prather, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 24, 1949, Serial No. 101,027
7 Claims. (Cl. 192—.07)



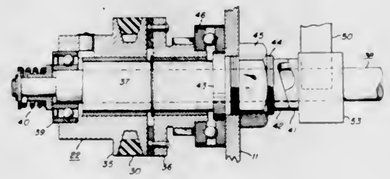
1. Clutch control mechanism adapted to be included in the drive system of an automotive vehicle comprising an accelerator and an internal combustion engine, said clutch control mechanism including a pressure differential operated motor, valve mechanism, including a pressure balanced three-way valve, for controlling the operation of the motor; means, including means operative in accordance with the position of the accelerator, for controlling the operation of the valve mechanism and to effect a normal clutch disengaging and engaging operation of the motor; and means including a pressure differential operated motor, operative in accordance with the speed of the engine, for overruling the operation of the aforementioned valve controlling means, said overruling means coming into operation with an abnormal operation of the engine of the vehicle.

2,665,786
MEANS FOR EFFECTING GEAR-CHANGE OPERATIONS IN VARIABLE SPEED POWER TRANSMISSION MECHANISMS
John Frederick Alcock, Leeds, England
Application January 22, 1951, Serial No. 207,144
Claims priority, application Great Britain February 17, 1950
4 Claims. (Cl. 192—.09)



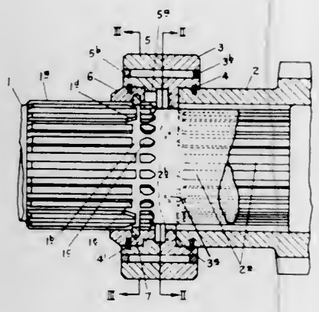
1. Means for effecting gear-change operations in a variable speed power transmission mechanism of the kind specified, comprising the combination of a lever adapted to actuate a braking means associated with the input shaft of the mechanism, a trip bar pivotally mounted on the said lever, a pedal, a lever operable by the said pedal for cooperating with the trip bar, power-control means operable by the pedal, and a cam operable by a gear-change lever and a lever operable by a throttle lever, for moving the trip bar away from the said lever operable by the pedal.

2,665,787
CLUTCH AND BRAKE FOR PAPER SEPARATOR DRIVE MECHANISMS
Thomas A. Ribich, Cleveland, Ohio, assignor, by mesne assignments, to Weldon Tool Company
Application December 9, 1950, Serial No. 199,982
2 Claims. (Cl. 192—12)



1. In a paper separator device, the provision of an improved paper feed drive and start-stop mechanism therefore, comprising, a driven shaft, a separate control shaft mounted for longitudinal reciprocation and rotation about the longitudinal axis thereof between a brake producing position and a drive producing position, brake means operable upon said driven shaft, a radially extending cam carried by said control shaft, a cam follower contactable by said radially extending cam, actuation means interconnecting said cam follower and brake means, said cam and cam follower thereby applying said brake when the control shaft is moved to said brake producing position and releasing said shaft in said drive producing position, and clutch drive means for said driven shaft including a tubular sleeve bearing supporting said control shaft, a driven clutch member and a drive clutch member rotatably mounted on the outer surface of said sleeve bearing, drive transfer means interconnecting said driven clutch member and said driven shaft, prime mover drive means rotatably driving said drive clutch member, stationary cam means, cam follower means carried by said control shaft, said stationary cam means and cam follower means cooperating to produce an endwise shifting of said control shaft as the control shaft is rotated from said brake producing position to the drive producing position wherein the clutch members are engaged, spring cushioned thrust bearing means interconnecting said control shaft and said drive clutch member, said spring cushion being put under compression by said control shaft only when the control shaft is in the drive producing position, the angular position of the said radially extending cam with respect to the said stationary cam means being selectable to provide a selected change relationship between braking and drive conditions, including a time delay, overlap, or instantaneous shift.

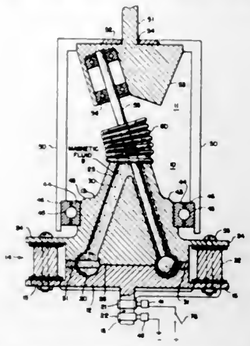
2,665,788
SPLINED CLUTCH
John Oliver Philip Hughes, Rugby, England, assignor to The English Electric Company Limited, London, England, a British company
Application October 9, 1951, Serial No. 250,507
Claims priority, application Great Britain October 13, 1950
10 Claims. (Cl. 192—12)



1. A clutch comprising in combination: two co-axial main splined members slidable in and out of one another, a first auxiliary member coupled with limited rotational freedom to one of the said main splined members, a series of magnets having alternating N- and S-poles arranged on the said first auxiliary member at half the pitch of the splining of the said main splined members, a second auxiliary member coupled for rotation with the said second main splined member, a series of magnets having alternating N- and S-poles arranged at the same pitch and opposite those of the said first auxiliary member, the said main splined members having splines chamfered at the ends facing one another prior to engagement thereof, and the said first auxiliary member having radial inward projections chamfered towards the ends of the splines of the said second main splined members and guiding the same into engageable position with the ends of the said first main splined members, the torque turning the said first auxiliary member into the said guiding position being derived from the magnetic attraction and repulsion of the said two sets of magnets, and the torque for turning the said main splined members into engageable position being derived from the axial force shifting the same into engagement owing to wedge action of the said inward projections and chambered splines.

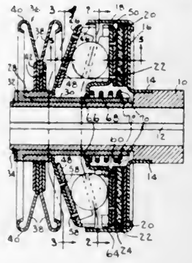
2,665,789
MAGNETIC CLUTCH
Ward H. Ingersoll, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 18, 1950, Serial No. 201,453
11 Claims. (Cl. 192—21.5)

1. In a clutch, a driven member, a driving member, a bellows member attached to said driving member, said driving member having a conoidal annular opening therein, means journaling said driven member on said driving member, a shaft mounted intermediate its extremities on said driving member through said bellows member and journaled at one extremity on said driven member, said shaft at its opposite extremity being positioned in said conoidal opening of said driving member, and means included



in said driving member for selectively rigidly connecting said shaft and said driving member.

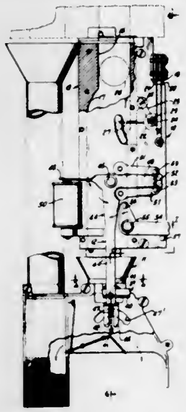
2,665,790
CENTRIFUGALLY ENGAGED CLUTCH
Lester W. Birbaum, Oconomowoc, Wis., assignor to La Belle Industries, Inc., Oconomowoc, Wis., a corporation of Wisconsin
Application May 5, 1950, Serial No. 160,308
3 Claims. (Cl. 192—105)



1. A speed responsive clutch comprising, a journal adapted to engage a shaft, a clutch housing fixed on said journal, a bearing on said journal, a frusto-conical drive plate mounted on said bearing for rotation with respect to said journal, a driven plate between said drive plate and said housing, a plurality of balls between said plates, means on each plate for engaging said balls to transmit motion from the drive plate to the driven plate and to restrict movement of the balls to a substantially radial path relative to said plates as the balls move outwardly under influence of centrifugal force, a friction disc between said driven plate and the housing to drive the housing when the driven plate is forced against the disc as the balls move outwardly, and spring means acting on said driven plate to oppose the action of centrifugal force.

2,665,791
COMBINATION COIN CONTROL
Mario Caruso, Maplewood, N. J., assignor to C-Eight Laboratories, Newark, N. J.
Original application December 26, 1946, Serial No. 718,529. Divided and this application December 10, 1947, Serial No. 790,844
2 Claims. (Cl. 194—9)

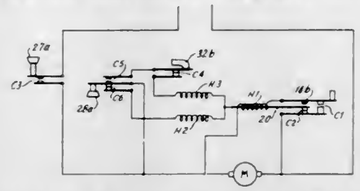
1. A combination coin retainer and coin release mechanism, a coin-defining unit comprising a plurality of coin-operated switches, said mechanism having an operating structure comprising a solenoid, a substantially T-shaped lever formation pivotally supported from the body of said coin-defining unit and including a relatively long depending lever portion with a bifurcated end and two side lever arms extending from the pivotal point of the long lever portion, one of the lever arms constituting the armature for said solenoid and being adapted, when attracted by the energized solenoid, to swing the lever formation in one direction, the other lever arm constituting balancing means for the lever formation, and a pair of pivoted auxiliary balancing arms connected at their free ends by a tension spring and engaging the movable end of said other lever arm so that said long lever portion is normally kept in a vertical position; and a coin counter actuated by said coin-defining unit and comprising a dielectric rotary disc movable in two direc-



tions, a spring biasing the disc to turn in one direction, a dielectric pin passing through the disc and extending beyond both faces thereof, one end of the pin being engageable by manually or automatically operable re-setting means for the disc, adapted, when actuated, to re-set the disc by turning it in opposite direction, that is, against the tension of the spring, a normally open switch engageable by the other end of the pin, said switch being electrically connected with said solenoid for energizing the latter when closed manually, thereby causing the long depending lever portion to swing in that one direction; a bell crank adapted, when operated, to engage said long lever portion and to swing the latter in opposite direction, and a power driven mechanism for automatically actuating and releasing said bell crank and said re-setting means for the coin counter.

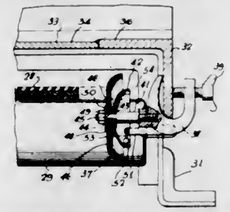
2,665,792
TYPEWRITING MACHINE HAVING AUTOMATIC CUTOFF SWITCH
Karl R. Stauss, Poughkeepsie, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application October 27, 1950, Serial No. 192,402
11 Claims. (Cl. 197—17)

1. In combination with a power operated office machine having a driving motor and a control circuit for such motor, a main switch for controlling said motor circuit, a second switch, manual means to close said switches, means to hold said switches in closed condition, thermal means tending when heated to release the holding means, heating means for said thermal means, a cut-off control circuit including said heating means and second switch and a thermally released switch, and means responsive to use of



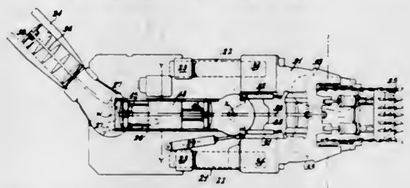
said machine for periodically energizing said thermally released switch to maintain said cut-off control circuit open.

2,665,793
CONVEYER MISALIGNMENT SIGNAL
James W. Hardy, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 18, 1950, Serial No. 145,031
5 Claims. (Cl. 198—40)



5. In a belt conveyor having upper and lower reaches of an endless belt supported on rollers carried by a frame, said lower reach normally moving in a preselected position spaced laterally from the sides of the frame, means for providing a signal indicating misalignment of the lower reach of said belt comprising belt engaging means mounted to contact said lower reach upon misalignment thereof and to be rotated upon such misalignment, a bell and a striker therefor arranged for relative rotation with respect to each other upon rotation of said belt engaging means to give an audible signal indicating misalignment of said lower reach.

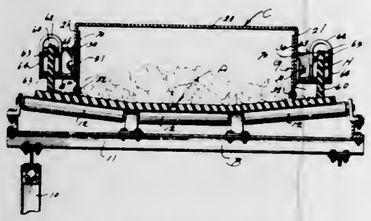
2,665,794
MINING AND LOADING MACHINE
Joseph J. Slomer, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 12, 1951, Serial No. 231,070
6 Claims. (Cl. 198—109)



1. In a mining and loading machine, the combination of a portable main frame, an auxiliary frame carried by said main frame and mounted for back and forth reciprocable movement and for horizontal swinging movement with respect thereto, an endless conveyor member trained about direction-changing elements carried re-

spectively by said main and auxiliary frames, means for maintaining a predetermined tension in said conveyor member throughout the range of movements of said auxiliary frame including means between said direction-changing elements for training said conveyor member in the shape of a loop and having fluid-operable motor means associated therewith and effective to expand said loop responsive to fluid under pressure, fluid pressure operable means for adjustably moving said auxiliary frame, main valve means for controlling operation of said fluid pressure operable means, pump means connected to draw fluid from a tank and supply fluid to said main control valve means, conduit means connecting said pump means with said main control valve means for effecting actuation of the individual adjusting functions of the auxiliary frame upon operation of said valve means, a by-pass conduit connecting said motor means with the output side of said pump means on the inlet side of said main control valve means, pressure reducing means in said by-pass conduit for diverting a substantially constant pressure to said motor means to tension said conveyor member, return conduit means connecting said by-pass conduit with said tank and having a fluid relief valve set to relieve fluid pressure and return fluid to said tank at a predetermined pressure above the output setting of said pressure reducing means, and a back pressure unit in said main conduit unit set to create a predetermined back-pressure in said by-pass conduit greater than the output setting of said pressure reducing means.

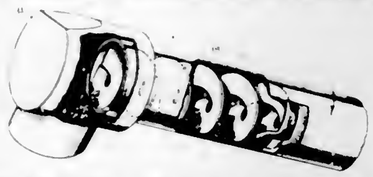
2,665,795
SKIRT PLATE AND SKIRT SEAL CONSTRUCTION FOR CONVEYER BELTS
Fred H. Holwick, Meredosia, Ill.
Application December 21, 1951, Serial No. 262,721
7 Claims. (Cl. 198—204)



1. Skirt sealing means for conveyor belts comprising in combination with a movable conveyor belt, a sealing plate of material of rubber like nature, and means supporting said seal for vertical movement with respect to the belt in freely resting relation solely by gravity over and upon the belt at a side marginal portion thereof whereby upon the application of a lifting force upon the skirt caused by the wedging of particles being carried by the belt between the belt and lower edge of the skirt, said skirt will be vertically lifted to permit the particles to be released.

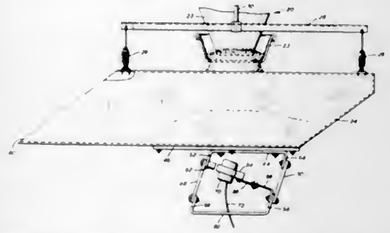
2,665,796
COAL FEED TUBE
William S. Anderson, Williamsport, Pa., assignor of one-half to James E. Axeman, Williamsport, Pa.
Application November 19, 1949, Serial No. 128,300
3 Claims. (Cl. 198—215)

3. A feed tube for feeding upward on an incline particles of hard material, such as coal and the like, comprising in combination, an outer relatively thick-walled metal tube rotatably mounted at an incline in bearing supports, an inner smooth relatively thin-walled metal liner tube mounted therein and spaced therefrom, a relatively thin layer of insulating material between said metal tubes, and an integrally continuous spirally wound helicoidal sheet metal screw feed fin secured only at its ends within said liner tube and tightly held therein along its length by the resilience of reexpansion,



the feed fin having such radial width as to leave a central axial opening therein such that particles can fall back over the fins and strike the surface of the inner tube, said inner and outer tubes having thicknesses and periods of vibration sufficiently different to minimize the transmission of sounds past the outer tube to the surrounding medium, the lower end of the feed tube assembly being positioned in a coal bin and the upper end being positioned in an enclosed delivery header of a furnace.

2,665,797
APPARATUS FOR ADVANCING MATERIAL
Harry R. Leypoldt and Adam T. Stoddart, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 23, 1949, Serial No. 89,338
5 Claims. (Cl. 198—220)

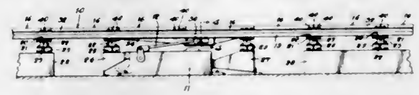


1. A transfer device, which consists of a pan, a generally U-shaped frame secured rigidly to the base of the pan with the arms thereof projecting away from the pan, a pair of leaf springs secured to the arms of the frame, a second generally U-shaped frame connected to the leaf springs, an armature connected to one of the U-shaped frames, an electromagnet connected to the other U-shaped frame, and means for supplying a pulsating current to the electromagnet to vibrate the pan, the weight of the pan being greater than the combined weight of said other elements.

2,665,798
TROUGH
Loy D. Hagenbook, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 5, 1950, Serial No. 199,327
5 Claims. (Cl. 198—220)

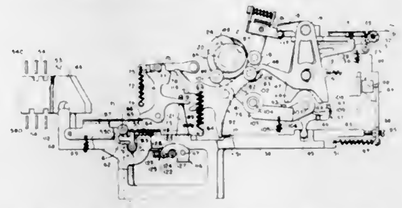
1. In a trough structure, an elongated substantially rigid supporting frame, and a plurality of

pan sections mounted in load-carrying sequence along said frame, means for positively anchoring a relatively limited area of each of said pan sections in substantially rigid relation to said frame,



with the remaining area of such pan section free for longitudinal expansion or contraction relative to said frame, and with a relatively free end of such pan section in lapped relation to an adjoining pan section.

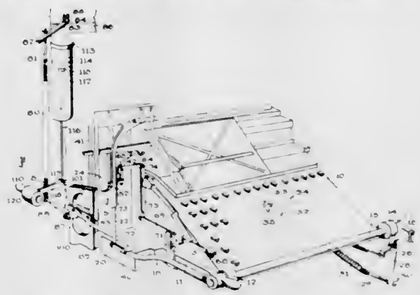
2,665,799
DELAY MECHANISM FOR TAPE CONTROLLED APPARATUS
Carl W. Swan, Skokie, Ill., assignor, by mesne assignments, to Teletypesetter Corporation, Chicago, Ill., a corporation of Delaware
Application September 12, 1950, Serial No. 184,409
11 Claims. (Cl. 199—18)



1. In a tape controlled selector mechanism, means for sensing code indicia in a tape, transfer means, a plurality of settable members set by said transfer means according to the operation of said tape sensing means, a special settable member, cyclically operable cam means, cam follower means comprising a blockable portion and a setting portion, means effective under certain operating conditions to cooperate with said blockable portion to block said cam follower means, cam means carried by said plurality of of settable members to normally control said blocking means, and yieldable cam means pivotally carried by said special settable member in a manner to be yieldable only upon one direction of movement of said special settable member, said yieldable cam means effective in the other direction of movement of said special settable member to operate said blocking means to block said cam follower means to prevent the premature reoperation of said special settable member by said setting portion, whereby the setting of said special settable member in one manner by said cam follower means is facilitated by said blocking means, and in the reverse manner by said transfer means under the control of said blocking means.

2,665,800
ATTACHMENT FOR PRINTING SLUG CASTING MACHINES
Virgil A. Johnston, Fulton, Mo.
Application March 10, 1947, Serial No. 733,659
2 Claims. (Cl. 199—31)

1. A key and lever assembly for mounting on a side frame of a printing slug casting keyboard comprising in combination, a metal strip, a key secured to one end thereof, a pivot at the opposite end of said strip and a support and clamp element pivotally supporting said strip intermediate its ends and comprising a metal strap having a U-bend at its lower end to embrace said frame, a clamp screw to engage said frame to position said element thereon, a pivot for said key strip near the upper end of said strap, a stop element, means for adjusting said element ver-



tically on said strap, said element including a laterally offset flange overhanging said strip to limit movement of the key in one direction, a link secured to the end of said strip by said pivot and means associating said link and a locking means on said casting machine for releasing the same when the key is depressed.

2,665,801
COMBINED PHOTOGRAPH CAMERA CARRYING CASE AND FLASHBULB HOLDER
Meyer Berkman, New York, N. Y.
Application November 13, 1950, Serial No. 195,232
1 Claim. (Cl. 206—16)

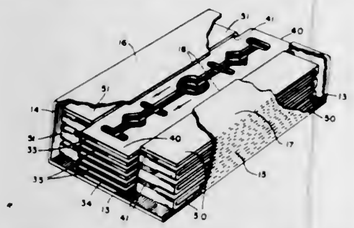


A camera equipment carrying case of the character described, including a main box-like receptacle having a plurality of pockets for receiving articles and a box-like cover receptacle hinged to the main receptacle, flexible bulb carrying means mounted within the cover receptacle for resiliently carrying flashbulbs in spaced relation from the contents of the main receptacle, said bulb carrying means comprising an elongated molded rectangular open sided rubber frame having bottom, side, end walls and a rectangular brim at the open side, said brim being affixed to the inner side of the top wall of the cover receptacle, the bottom wall of the frame having two adjoining rows of holes in spaced parallel relation to one another and extending longitudinally of the frame, and a rib element of rigid material secured within the frame intermediately of the two rows of holes and in contact with the bottom wall and the ends of the frame whereby the frame is prevented from collapsing, said bottom wall being resilient and the holes being adapted to engage and hold the stems of flashbulbs inserted therein.

2,665,802
DISPENSER FOR SAFETY RAZOR BLADES
Zemach Auerbach, New York, N. Y.
Application March 6, 1951, Serial No. 214,160
4 Claims. (Cl. 206—16)

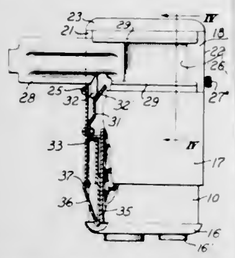
1. A razor blade dispenser comprising in combination, a casing open at its respective ends and having the top thereof formed with a finger re-

ceiving opening, a plurality of pairs of opposed blade-receiving pockets arranged longitudinally and in superposed relation in said casing, each pair of opposed pockets being open at one end and closed at its opposite end, the closed ends of one pair of pockets underlying the open ends of the next superposed pair of pockets, and a stack of double-edged blades arranged longitudinally in superposed relation in said casing with



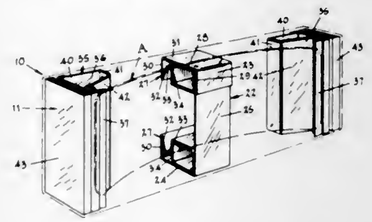
each blade having its opposed sharpened edges disposed within one of a pair of said opposed pockets so that the blades may be dispensed one at a time alternatively from the opposite open ends of the casing when the finger is pressed against the uppermost blade of the stack and the uppermost blade is moved longitudinally in the direction of the open end of the pair of opposed pockets containing the uppermost blade.

2,665,803
COMBINED CAP AND ASH RECEIVER FOR LIGHTERS
Willard E. Jaap, Cincinnati, Ohio
Application October 3, 1951, Serial No. 249,545
5 Claims. (Cl. 206—38)



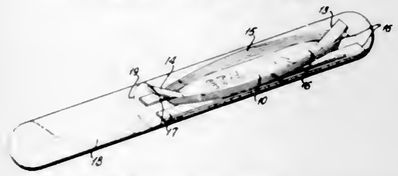
1. A combined lighter, cap and ash receiver which comprises an elongated fuel case, a flame-producing device mounted at one end of the said case, a sleeve mounted on said case to slide between a normal position in which one end of the sleeve is substantially in alignment with the end of the case on which the flame-producing device is mounted, and an elevated position in which said end of the sleeve surrounds the free end of the flame-producing device, a box-shaped receiver having a top panel, side walls, and an open mouth, one side edge of said open mouth being hinged to an edge of said end of the sleeve, said receiver being of substantially the same cross section as the sleeve and swinging between a closed position in which the side walls of the receiver are in alignment with the sides of the sleeve and an open position in which the receiver is angularly disposed to the sleeve, there being a peripheral shoulder inside the mouth of the receiver, a lid hinged inside the receiver along one of the side walls and immediately inside the shoulder, said lid swinging between an ash-receiving position in which the lid engages the shoulder and closes the mouth and a cap-forming position in which the lid is flat against said one of the side walls, there being an opening in said one of the side walls, the lid covering and closing said opening when in cap-forming position, the flame-producing device engaging the lid to hold the lid in cap-forming position when the receiver is closed and the sleeve is in normal position, and means for closing said opening when the lid is in ash-receiving position.

2,665,804
SHIPPING CONTAINER FOR GLASS SHEETS
Melvin C. Koester, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application December 7, 1951, Serial No. 260,499
8 Claims. (Cl. 206—62)



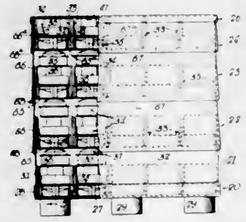
1. In a container for shipping curved sheets of glass or other frangible material, a substantially rectangular carton having top and bottom and side and end walls, a curved glass sheet arranged within said carton, resilient filler members having springable portions engaging opposite ends of the sheet throughout substantially the entire length thereof and maintaining said ends in spaced floatable relation with respect to the side and end walls of said carton, and resilient spacer members arranged between the top, bottom and side walls of the carton in engagement with the side edges of the glass sheet, each of said members contacting both of the side walls of the carton and spacing said sheet edges from said side walls in floatable relation therewith.

2,665,805
SUTURE PACKAGE
Robert John Schaefer, Chatham, N. J., assignor to Ethicon, Inc., a corporation of New Jersey
Application April 1, 1949, Serial No. 84,981
1 Claim. (Cl. 206—63.3)



In a suture package comprising a suture tube of small diameter as compared to its length and a reel with suture wound thereon enclosed in the tube, a suture reel including a relatively thin rectangular strip of flat stock of rigidity commensurate with vulcanized fiber, with tabs located one near each end and protruding from one side of the strip and supporting, entirely on one side of the strip, a suture wound around the tabs in a series of substantially flat elongated loops whose major axes extend lengthwise of the strip and whose minor axes extend widthwise of the strip and which engage the tabs over a substantial portion of their outer opposed surfaces, the lateral opposed portions of the loops being disposed sufficiently near each other so as to enable the reel with suture thereon readily to be inserted in the tube and such that shrinkage forces generated in such portions of the loops as a result of sterilization act substantially longitudinally of the strip and on the tabs in a manner tending to bend the tabs toward each other, and said tabs being yieldably adjustable toward each other to accommodate such shrinkage in the suture loops and being of a size such that when the reel is packaged in the suture tube and sterilization has been accomplished, the free ends of the tabs and the lateral edges of the thin strip of flat stock conjointly engage the inner wall of the tube to prevent buckling of the flat reel stock under the action of the shrinkage forces and to restrain longitudinal movement of the reel in the tube.

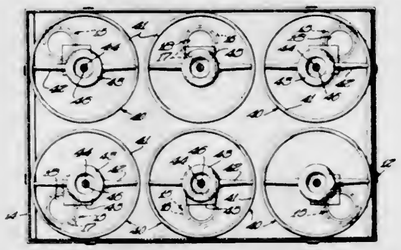
2,665,806
PALLETIZED SHIPPING STRUCTURE
Larry J. Budd, Chicago, Ill., assignor to Pallet Devices, Inc., Des Plaines, Ill., a corporation of Illinois
Application August 3, 1949, Serial No. 108,409
2 Claims. (Cl. 206—65)



1. In combination, a pallet having an upper supporting surface, a plurality of pallet supporting legs depending therefrom, a plurality of stacked, partially telescoped open-top trays supported on said pallet supporting surface, and a plurality of dividers positioned in each of said trays, said dividers extending transversely across the entire width of said trays and longitudinally abutting one another for retaining a plurality of separate articles therein, said dividers each comprising a one-piece blank of fibrous sheet material folded to define a pair of spaced laterally extending surfaces provided with offset apertures, each of the apertures of each one of said surfaces being adapted to receive one end of one group of said articles with one of said groups of articles being interposed between the surfaces and the other of said groups of articles projecting upwardly within the tray for abutment with the under surface of the bottom of that tray positioned immediately thereabove.

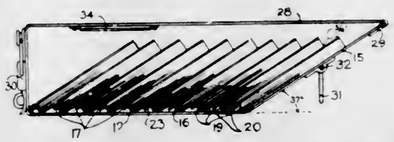
2,665,807
LOAD SUPPORTING PALLETIZED CONTAINER
Larry J. Budd, Chicago, Ill., assignor to Pallet Devices Incorporated, Des Plaines, Ill., a corporation of Illinois
Application April 18, 1950, Serial No. 156,572
1 Claim. (Cl. 206—65)

In a palletized shipping structure including a container for articles disposed in a plurality of vertically extending stacks, a plane pallet floor of sheet material incapable of bearing said stacks of articles alone and disposed under the bottom of said container, a depending leg associated with each of said stacks and secured to said pallet floor, said legs being spaced apart distances sufficient for entry of a loading fork therebetween with at least some of said legs disposed out of vertical alignment with the centers of gravity of the associated stacks, and a separate rigid rectangular load-supporting member for each associated stack disposed on the container bottom, each member having a corner



portion thereof over a portion of each of the last-mentioned legs and a diagonally opposite corner portion thereof under the center of gravity of the associated stack of articles and arranged for receiving the entire load of said associated stack of articles and transmitting said load directly to the associated leg with a maximum effective area thereof in contact with the portion of the container bottom intermediate the legs and the centers of gravity of the associated stack.

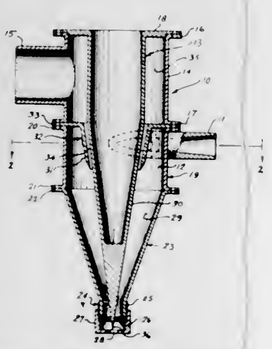
2,665,808
INVENTORY AND STORAGE BOX FOR AMUSEMENT TICKETS
David S. McAlister, Charleston, S. C.
Application September 25, 1953, Serial No. 382,383
4 Claims. (Cl. 206—73)



1. An amusement ticket inventory and storage case comprising a box having parallel side walls, a bottom wall, and end walls, the front end wall and side walls being perpendicular to said bottom wall, the rear end wall being inclined upwardly and rearwardly from said bottom wall whereby the top of said case is substantially longer than the bottom thereof, a plurality of right angular channels extending transversely across the bottom of said box, a first wall of each of said channels being disposed in a plane perpendicular to the plane of said rear end wall, and providing a support for the unexposed ends of tickets stored in said box, a second wall of each of said channels being disposed in a plane parallel to the plane of said rear end wall, the length of said second wall corresponding to the length of the portion of the ticket stored in said box which is to be exposed, a single independent transverse partition removably pivoted on the ridge of each of said channels, each of said partitions being of like dimensions and having a plane front surface, the rear surface of each of said partitions carrying only a plurality of laterally spaced, parallel subdividers extending at right angles therefrom, the width of said sub-

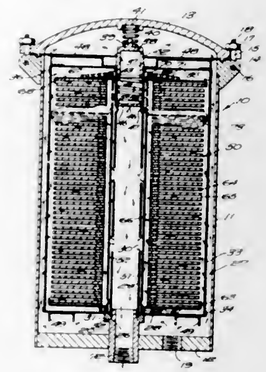
dividers corresponding to the length of said first walls of said channels, and extending toward said inclined rear end wall, the subdividers on the rearmost of said partitions engaging the inclined rear wall of said box and supporting such partition in parallel relation to said inclined rear wall, the subdividers on each succeeding forwardly positioned partition engaging the plane front surface of the adjacent partition to the rear thereof and supporting all said partitions in parallel relation to each other and to said inclined end wall, to thereby provide a plurality of inclined ticket receiving cells formed between adjacent partitions and between said rearmost partition and said inclined rear end wall, said first walls of said channels forming the bottom walls of said cells, the plane front surfaces of said partitions forming continuations of and cooperating with said second walls of said channels to provide continuous supporting surfaces for the reverse sides of tickets stored in said cells.

2,665,809
VORTEX CONCENTRATOR
Gilbert G. Chisholm, Lucan, Ontario, Canada, assignor to Ferros Metals Research Company Limited, Toronto, Ontario, Canada
Application February 9, 1950, Serial No. 143,223
1 Claim. (Cl. 209—211)



The combination in a concentrator of the cyclone type having separate tailings and concentrate discharge openings, of: a vertically disposed vortex controlling cone converging downwardly to a point; a truncated cone component, the side walls of which are disposed in spaced apart relation to said vortex controlling cone, being coaxial therewith and converging toward the point of said vortex controlling cone; an axially adjustable nozzle on the lower terminus of said truncated cone component having a port adapted to be pierced by said vortex controlling cone, thereby constituting the concentrate discharge opening of said concentrator of adjustable sectional area; a substantially cylindrical casing component at the upper end of said truncated cone component having a tailings discharge opening located at the upper end thereof; an inlet port in said casing including a nozzle designed to direct the pulp into said casing tangentially and disposed in said casing between the concentrate discharge opening and the truncated cone component; and a plup dividing skirt surrounding a portion of said vortex controlling cone being in spaced relation thereto and including a flange of annular form extending to the walls of said cylindric casing between the inlet port and the tailings discharge opening of the latter whereby heavier fractions of pulp injected into said concentrator through the inlet port thereof rise through the space between said skirt and said vortex controlling cone in a manner controllable by adjustment of said nozzle of said tailings discharge opening with respect to said vortex controlling cone.

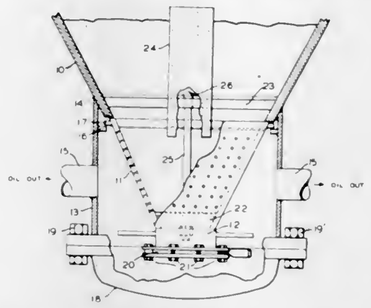
2,665,810
FLOW CONTROL FILTER ELEMENT
John E. Whipple, Rumford, R. I., assignor to Fram Corporation, a corporation of Rhode Island
Application December 12, 1951, Serial No. 261,251
2 Claims. (Cl. 210—165)



1. A filter element comprising a tubular axially rigid core, a stack of members formed of shrinkable cellulose material about said core for radial filtration but spaced therefrom sufficiently to provide axial flow therealong, end plates at the ends of said stack to prevent axial flow along the core, resilient means to urge one of said plates relatively toward the other and slide a plate along its core as axial shrinkage of the stack of members occurs, said core being provided with openings spaced axially along the core which are progressively uncovered by sliding of an end plate along the core for bypassing liquid being filtered, said core being perforated in the zone where continually covered by the members for passage of liquid therethrough.

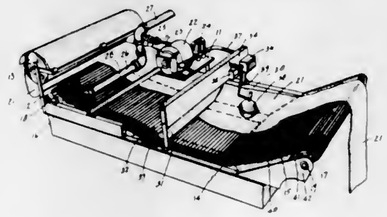
2,665,811
PERCOLATION FILTER
Robert E. Turkleson and Billy J. Showalter, Beaumont, Tex., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application September 23, 1950, Serial No. 186,328
3 Claims. (Cl. 210—171)

1. An improved conical bottom filter for filtration of a liquid through an adsorbent bed comprising in combination a perforated, conical-shaped filtering element, a rigid vertical shaft affixed to the lower portion of said element and extending up into the interior thereof, a screen construction mounted on said shaft and positioned along the axis of said conical bottom filter, said screen construction comprising a perforated, hollow body confined wholly within the conical bottom of the filter and having perforations of a size sufficient to permit the flow of liquid through said body while restraining the passage of adsorbent therethrough, whereby a void is created in the body of the adsorbent contained in the conical bottom of said filter through which liquid may readily pass, thereby serving to



increase the filtration rate of said liquid through said adsorbent bed.

2,665,812
LIQUID FILTER DEVICE
Victor S. Crane, Lebanon, Ind., assignor to Delpark Corporation, Lebanon, Ind., a corporation
Application October 19, 1950, Serial No. 191,025
3 Claims. (Cl. 210—196)

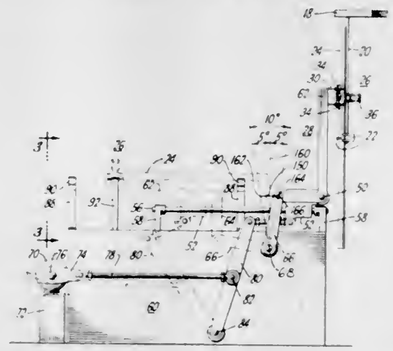


1. A liquid filter including a tank having a sump for receiving filtered liquid, an endless perforate conveyor carried by said tank to extend over said sump, a supporting roller mounted at each end of said tank about which said conveyor is looped to sag into said tank, a driving mechanism connected with one of said rollers for progressively moving said conveyor from the liquid receiving end to the discharge end thereof, a filter media supported and carried by the upper lap of said conveyor from the liquid receiving end thereof to the discharge end, a liquid discharge head extending over said receiving end, lifting aprons extending along the side walls of said tank engaging and raising the side edges of the upper lap of said conveyor and media to retain the liquid therein, a downwardly sloping elongated apron on said tank supporting the liquid receiving section of the upper lap of said conveyor and directing it downwardly at an angle and terminating in a drop off portion to cause a gradual flow of liquid while permitting filtering thereof, a substantially level conveyor support on said tank leading from said drop off portion to provide an elongated depressed filtering pocket section, a movable baffle carried by said tank adjacent said drop off portion across and within said pocket section, a liquid level control member extending into said pocket section operatively connected with said driving mechanism to actuate it upon a predetermined level of filtering material accumulating in said pocket section for causing said conveyor to move said media forwardly therefrom, and an upwardly sloping elongated apron on said tank leading upwardly from said pocket section supporting the discharge section of the upper lap of said conveyor and media to effect liquid drainage back to said pocket section.

2,665,813
HIGH FLOW RATE MINERAL FILTER AID
Armand R. Bollaert, Arcadia, and Ernest L. Neu, Hermosa Beach, Calif., assignors to Great Lakes Carbon Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application May 9, 1949, Serial No. 92,243
5 Claims. (Cl. 210—203)

1. A filter aid composed of broken and unbroken particles of vesiculated perlitic mineral of which not less than 10 per cent nor more than 35 per cent by weight are unbroken particles and retained on a #50 U. S. series screen and not less than 10 per cent nor more than 25 per cent are broken particles which will pass a #325 U. S. series screen, the intermediate fraction of said filter aid consisting of particles of substantially evenly graduated sizes.

2,665,814
ARTICLE TRANSFER APPARATUS
Joseph H. Brooks, West Peabody, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application June 23, 1951, Serial No. 233,198
5 Claims. (Cl. 214—3.1)

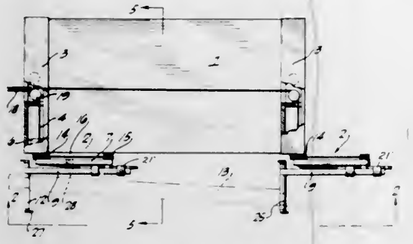


1. An apparatus for transferring a workpiece from a pick-up to a delivery station comprising: a crosshead; a bell-crank lever fulcrumed on said crosshead; a grapple mounted on one of the arms of said bell-crank lever for grasping the workpiece; a link having one end on a fixed support and having its other end connected to the free end of the other arm of said bell-crank lever; and means for reciprocating said crosshead to thereby rotate said bell-crank lever to move said grapple to and from the pick-up and delivery stations.

2,665,815
PIPE LOADING DEVICE FOR TRUCKS AND THE LIKE
Clayton G. Blight, Long Beach, Calif.
Application May 6, 1950, Serial No. 160,520
8 Claims. (Cl. 214—77)

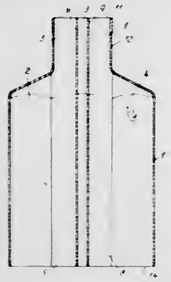
1. A pipe loading device for trucks, comprising a channel fixedly mounted on the truck, a mounting arm pivotally mounted on said channel, a bolster pivotally mounted on said mounting arm, an operating arm pivotally mounted in said bol-

ster, a lifting arm pivotally mounted on said operating arm, and a finger mounted on the



swinging end of said lifting arm, and means to exert a lifting force on said lifting arm.

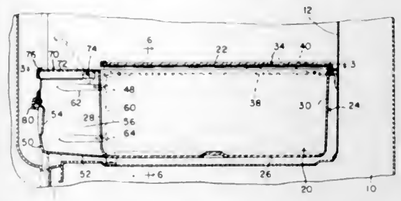
2,665,816
MULTIPLE COMPARTMENTED BOTTLE
Otto Anft, Berlin-Lichterfelde-Ost, Germany
Application July 13, 1950, Serial No. 173,507
Claims priority, application Switzerland March 21, 1950
3 Claims. (Cl. 220—20)



3. A multiple compartment bottle comprising an elongated intermediate compartment and two elongated end compartments disposed side-by-side in line and separated by partition walls which bulge toward the medial section of the intermediate compartment, the lateral wall portions of each compartment being curved to provide a plurality of vertical grooves where the curved lateral wall portions meet, and a common neck for all of the compartments having a breadth substantially equal to the maximum breadth of the intermediate compartment and extending over the intermediate compartment and the pockets in the end compartments formed by the bulging portions of the partition walls.

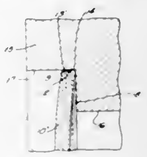
2,665,817
CRISPER PAN STRUCTURE
Harland W. Whitmore, Kenosha, Wis., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application October 23, 1950, Serial No. 191,614
5 Claims. (Cl. 220—20)

1. A crisper pan assembly comprising an open topped main pan including a front wall, an auxiliary pan having bottom, front and side walls and being open at its top and rear, fastening means securing the rear edges of the side walls of said auxiliary pan to the front of said main pan so that the front wall of said main pan constitutes a rear wall for said auxiliary pan, the upper rear corner portions of the side walls of said auxiliary pan being laterally displaceable when said auxiliary pan is separated from said main pan, a cover for said auxiliary pan, and hinge means comprising hinge parts on the upper rear corner portions of the side walls of said auxiliary pan and adjacent the rear corners of said cover, said hinge parts including laterally overlapping portions en-



gageable and disengageable by lateral displacement of the upper rear corner portions of the side walls of said auxiliary pan when said auxiliary pan is separated from said main pan, said fastening means including connecting members located adjacent the top rear corners of said side walls to prevent lateral displacement of said overlapping hinge portions.

2,665,818
EXPANSION CLOSURE PLUG
Walter F. Borges and Vernon W. Goss, Milwaukee, Wis., assignors to Wrought Washer Mfg. Co., a corporation of Wisconsin
Application September 20, 1951, Serial No. 247,464
8 Claims. (Cl. 220—24.5)

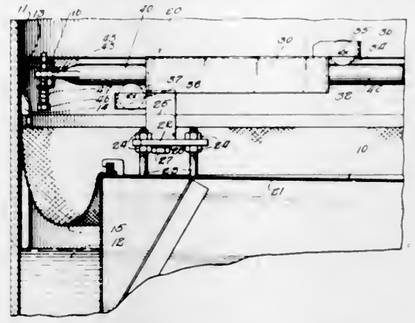


2. A closure for a cylindrical opening, comprising: a concavo-convex disc of material which is deformable under substantial pressure; a pair of spaced radially outwardly directed annular beads formed on the peripheral edge of said disc, there being an annular groove between said beads, the outer diameters of said beads being substantially equal to the diameter of the opening to be closed; and an annular ring of normally solid flowable sealing material encircling said disc and normally confined between said beads and substantially filling said annular groove to a point where it is flush with the outer diameters of said beads.

2,665,819
SEAL HANGER
Frederick D. Moyer and Jack L. Scholbe, Chicago, Ill., assignors to Chicago Bridge & Iron Company, a corporation of Illinois
Application February 2, 1950, Serial No. 142,020
2 Claims. (Cl. 220—26)

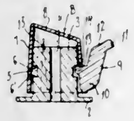
1. A seal hanger for a floating roof tank comprising, an upwardly flat base adapted to be attached to the roof, a support mounted on the base for rotational movement about a substantially vertical axis, an elongated channel member having an open bottom and mounted on the support, said support having a U-shape with the base of the U riding on the flat base and the upper ends of the U welded to said channel member, a seal

support telescoped into said channel member and spring means within the channel member urging



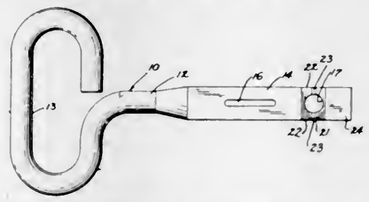
the seal support outwardly from the channel member.

2,665,820
CONTAINER CLOSURE
Jack W. Soffer, St. Louis, Mo., assignor to Development Research, Inc., St. Louis, Mo., a corporation of Missouri
Application August 10, 1950, Serial No. 178,605
4 Claims. (Cl. 220—27)



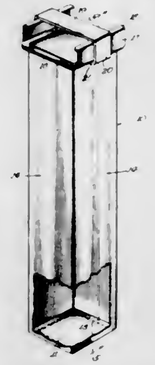
1. A container closure comprising a cylindrical body section open at its lower end and having a top wall, an ear integrally formed with said closure and having a base portion, the inwardly presented surface of said base portion being continuous with the inner surface of the body section, a tooth projecting inwardly from the inwardly presented surface of said base portion, a stem projecting upwardly from said base portion in outwardly spaced relation to the body section, the said base portion, tooth, and tab being heavily constructed to form a lever bearing at said base portion fulcrum-wise inward against the container at a point below said tooth, and a thinned frangible area in said body section demarking said lever and adapted for facile fracturing outward of the upper edge of said tooth.

2,665,821
CAN OPENING KEY
William I. Colvin, Saratoga, Calif., assignor to Pacific Can Company, San Francisco, Calif., a corporation of Nevada
Application November 20, 1950, Serial No. 196,621
2 Claims. (Cl. 220—52)



1. In a can opening key of the type adapted to be welded to a portion of a can and subsequently severed therefrom immediately prior to usage, said key having a handle and a shank, the improvement comprising an elongated, flattened tail portion on the end of said shank remote from said handle, said tail portion being apertured for reception of a tear strip tongue and also separately centrally apertured between the tear strip aperture and the end of said tail portion at a location spaced inwardly from the extremity of said tail, said tail portion being depressed in a pair of transverse bights at either side of said last-mentioned aperture between said last-mentioned aperture and the side edges of said shank, and a pair of welding protuberances depending from the bottom surface of said tail portion and formed by depressing said bights.

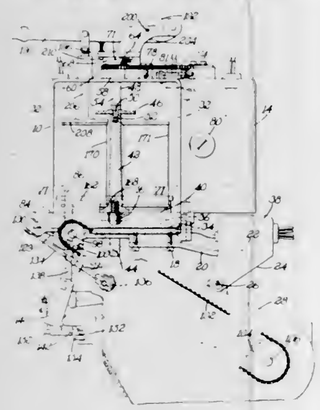
2,665,822
CONTAINER WITH REMOVABLE COVER AND COVER CLAMPING MEANS FOR SECURING THE COVER IN PLACE
Louis L. Crawford, Western Springs, Ill., assignor to The Allbright-Nell Company, Chicago, Ill., a corporation of Illinois
Application November 9, 1950, Serial No. 194,898
3 Claims. (Cl. 220—55)



1. As a new article of manufacture, a container designed to retain a food product in connection with processing thereof and comprising a tubular body adapted to extend vertically and provided at the upper end thereof with a continuous outwardly extending rectangular flange, a cover shaped conformably to and adapted to have its marginal portion rest on said flange and embodying on opposite sides of its marginal portion two full length parallel upwardly extending side members having the upper margins thereof lying in a plane which is inclined at a comparatively small acute angle with respect to the plane of said marginal portion of the cover, and an inverted U-shaped cover clamping member consisting of a crosspiece and two depending side pieces at the ends of the crosspiece, shaped to extend across and straddle the cover side members, adapted when the cover is in its operative position to be slid laterally into straddled relation with said cover side members, provided on the lower ends of its side pieces with flat inwardly extending hooks for gripping the bottom faces of the flange portions under the side members of the cover and holding the U-shaped member in connected relation with the upper end of the container body, and having its crosspiece inclined in the same manner as the upper margins of the cover side members in order that when the U-shaped member is properly slid into place the ends of said crosspiece engage

the upper margins of the cover side members with a wedging action and thus clamp the cover in place.

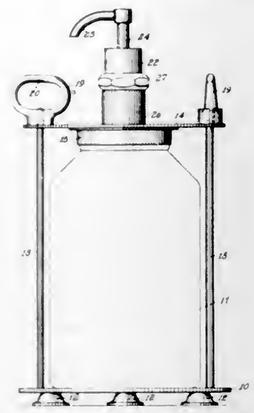
2,665,823
CEMENT HANDLING MEANS FOR THERMOPLASTIC ADHESIVES
Joseph Fossa, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 19, 1951, Serial No. 262,367
7 Claims. (Cl. 222—83.5)



1. In a cement handling means for thermoplastic adhesive, a heated casing having a door, a table for separate containers of adhesive rotatably mounted in said casing to carry a container from a loading position to a delivery position, said table having arcuate openings, an ejector stud beneath the table projecting through an opening, and connection between said door and the table to rotate the latter when the door is moved, said connection including a ratchet and pawl, the rotation of the table being effective to cause the stud to eject an empty container.

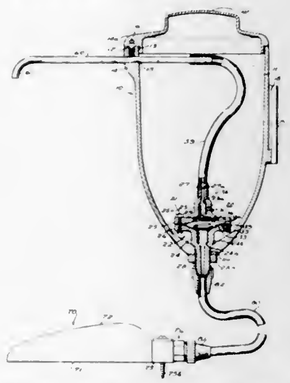
2,665,824
COMBINED HOLDER AND DISPENSER MEANS FOR CONTAINERS FOR SEMIFLUIDS AND FLUIDS
Marie Helen Anderson, Brooklyn, N. Y.
Application January 27, 1950, Serial No. 140,845
2 Claims. (Cl. 222—183)

1. A container rack of the nature set forth, comprising a circular base plate; a pair of posts rigidly secured thereto at diametrically opposite points substantially at its circumference and extending upwardly from its upper surface, the posts being threaded at their respective free ends and affording shoulders thereat, said posts serving as means to receive and to seat between them on the base a container; a perforated circular lid member for the container having arcuate slots inwardly directed in the plane of said lid member from its periphery, open in opposite directions and adapted to fit over the respective threaded ends of the posts for effecting engagement of the lid with the container; a pair of internally threaded wing nuts adapted to screw upon the respective threaded post ends to afford with the slots a twist lock for the lid member to clamp the same to the corresponding shoulders of said posts; a pump-retaining cylindrical sleeve fixed to the lid member coaxially with its perforation and projecting upwardly from its upper surface; and a pump unit including means to hold said unit removably to the upper end of the sleeve, said pump unit being provided also with a tube extending through the bottom of



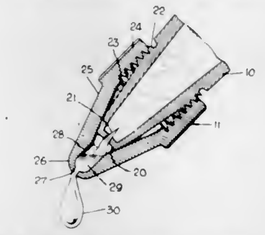
the sleeve to extend through the lid member perforation into the bottom of the container for dispensing through said tube the contents thereof above said lid member.

2,665,825
PRESSURE-OPERABLE LIQUID DISPENSING APPARATUS
Edward J. Poitras, Holliston, and John F. Taplin, West Newton, Mass.
Application March 25, 1950, Serial No. 151,888
3 Claims. (Cl. 222—209)



1. A "metered shot" liquid dispenser for detergent and other fluids comprising a liquid reservoir of cup form closed at the bottom save for a relatively small valve-mounting and pressure-admitting aperture and having a top closure, the reservoir having a dispensing conduit from the interior to an external discharge point, and a hydraulic, aspirating and shot-measuring pump unit bodily removably installed at the bottom aperture of the reservoir, said pump unit comprising a body having oppositely disposed upper and lower sections with lateral coupling flanges and defining between them a shot-measuring and ejection cavity and holding between them a cavity-dividing fluid-sealing diaphragm, the lower body section having a shoulder for seating on the reservoir bottom wall around the aperture therein and having a reduced neck demountably secured in outwardly projecting position at the aperture and adapted for connection with an hydraulic pressure-supplying conduit, spring means in said cavity above and normally depressing the diaphragm, the upper body section having an outlet bore extending from the cavity and connected with the dispensing conduit, an inlet passage in the pump body communicating between the reservoir and the cavity portion which is above the diaphragm, and oppositely operating inlet and outlet valves in said inlet passage and outlet bore respectively operable upon pressure application on the diaphragm to close off the cavity from the reservoir and to pass a measured shot of liquid to the dispensing conduit, the outlet valve being operable immediately on release of such pressure to effect a drip-retaining inspiration at the discharge end of the dispensing conduit.

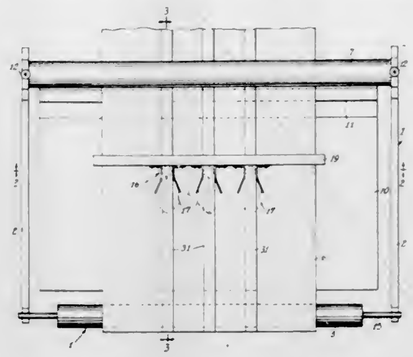
2,665,826
ADJUSTABLE SPOUT AND CAP DEVICE FOR THE SEALING AND DROPWISE DISPENSING OF FLUIDS
Richard W. Mahoney, Elizabeth, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
Application September 13, 1949, Serial No. 115,349
6 Claims. (Cl. 222—422)



1. A fluid dispenser comprising a tubular spout tip of resilient material and a cap member having a threaded engagement with said spout tip to provide longitudinal movement of the cap on said spout tip in the rotary movement thereof, said cap having a restricted fluid receiving chamber extending beyond the innermost point of longitudinal movement of said spout tip, the free end of said cap having a restricted discharge opening registering with said fluid receiving chamber, and cooperating means on said spout tip and on the inner surface of said cap between said chamber and the threaded portion of said cap for regulating the flow of fluid from said spout tip to said chamber.

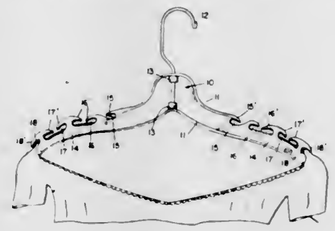
2,665,827
PLAITING MACHINE
Sam Michlin, Brooklyn, N. Y.
Application August 20, 1949, Serial No. 111,508
4 Claims. (Cl. 223—28)

1. A plaiting apparatus for tucked material, each tuck having an attached-together portion, comprising a plait former including a passage therethrough defined by entrance and exit ends, the entrance end of the passage expanded to receive a tuck in expanded form, the exit end of the passage shaped to conform to the cross-sectional outline of the finished plait, the plait former passage having a longitudinally extending section of reduced diameter to guide the attached-together portion of the tuck, and a spherical member of a size to be received in the tuck for the expansion thereof, the entrance end smaller than the spherical member, the spherical member when positioned in the tuck held against the entrance end of the passage in



the plait former by movement of the material through the plait former.

2,665,828
HANGER FOR DRESSES AND OTHER GARMENTS
Dorothy Jacob, Brooklyn, N. Y.
Application May 23, 1952, Serial No. 289,634
3 Claims. (Cl. 223—92)

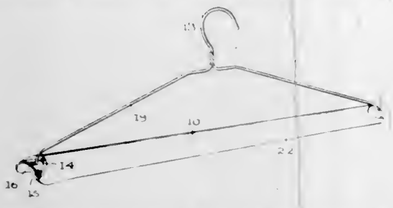


1. A garment hanger adapted to receive and hold all types of women's garments without damage thereto which comprises a plastic body portion with a pair of oppositely extending plastic arms unitary with the body portion, each of the plastic arms being provided along its upper edge with a series of cut-outs defined by arcuately-shaped, tapered extensions arranged in longitudinal alignment and having in-curved terminal portions close to but out of contact with adjacent portions of the hanger arms.

2,665,829
GARMENT HANGER GUARD
Hubert B. Tillery, Kansas City, Mo., assignor to Tillery Container Company, Kansas City, Mo., a partnership composed of Hubert B. Tillery and Luther D. Tillery
Application March 31, 1953, Serial No. 345,880
4 Claims. (Cl. 223—98)

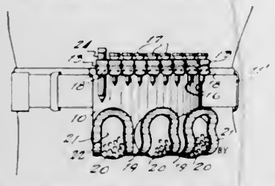
1. A garment hanger guard comprising a sheet of relatively stiff material curved transversely of its length, said curved sheet being provided at each end thereof with two arcuate shaped creases arranged transversely of said sheet and disposed in spaced relation to provide a segmental shoulder therebetween, said shoulder extending at an angle from the inner surface of said sheet, and a flap formed in said sheet at

each end thereof and defined by the material of said sheet within the curvature of one of said



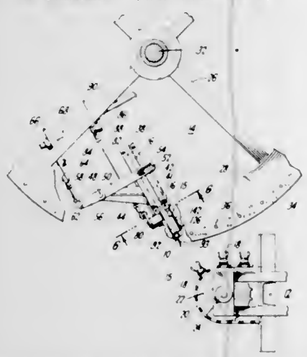
creases, said flap being flexibly connected to said sheet at the peripheral edge of said flap.

2,665,830
GOLFER'S ACCESSORY
Alvah W. Fowler, Fort Worth, Tex.
Application June 20, 1949, Serial No. 100,256
2 Claims. (Cl. 224—5)



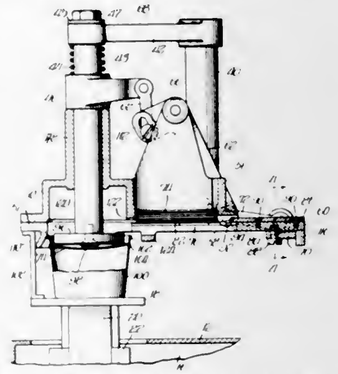
1. In a golfing accessory, the combination comprising a supporting plate having formed therewith a plurality of ball clips extending from the lower edge of said plate and turned upwardly and inwardly, the said clips being tensioned and having open slots in their outer faces, a series of integral tensioned clips formed along the upper edge of said plate opposite said ball clips and having depending flanges thereon, and means formed with said plate for attachment thereof to the belt of the wearer.

2,665,831
ARTICLE TRANSFER APPARATUS
Eric L. Midgley, Salem, and Charles A. Young, Gloucester, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application January 19, 1952, Serial No. 267,286
4 Claims. (Cl. 226—20.4)



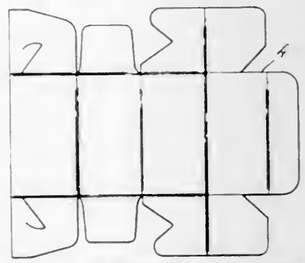
1. Apparatus for automatically transferring an elongated tubular lamp, having an exhaust tube extending axially from an end thereof, from a supply source to an exhaust machine having a head disposed at a lamp-receiving station thereon, said apparatus comprising: a transfer arm; a jaw mounted at an end of said transfer arm for gripping the lamp; means for reciprocating said arm in a horizontal plane between the lamp supply source and the lamp-receiving station on the exhaust machine to pick up a lamp from the supply source and carry it to a position beneath and in register with the head of the lamp exhaust machine at the lamp-receiving station; and means for raising the lamp at the lamp-receiving station on the exhaust machine to move the lamp exhaust tube into the head at the lamp-receiving station.

2,665,832
CAPPING MACHINE
Ralph B. Bagby, Evanston, Ill., assignor to Triangle Package Machinery Company, Chicago, Ill., a corporation of Illinois
Application November 20, 1948, Serial No. 61,254
4 Claims. (Cl. 226—92)



1. A container capper having a plunger, a support for said plunger, a cap supply tube slidably mounted on said plunger, a disc on said plunger, a rising table for moving a container toward said disc, a lifter extending upwardly from the table for sliding said cap supply tube upwardly when said container is moved toward said disc, and a slide for moving a cap from said cap supply tube to a position between said disc and said container when said rising table is moved to its lowered position.

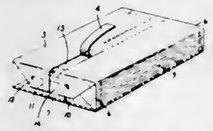
2,665,833
GREASE AND MOISTUREPROOF CARTON AND CONTAINER
Martin J. Galbraith, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.
Application April 15, 1949, Serial No. 87,805
4 Claims. (Cl. 229—3.1)



3. A grease and moistureproof packaging element for the packaging of greasy food and food

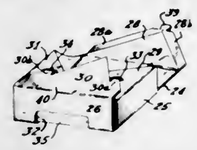
ingredients formed of an integral lined paperboard blank saturated with hydrogenated peanut oil, the liner containing titanium dioxide in such quantity as to prevent substantial discoloration of the liner by the saturation of the blank with the oil.

2,665,834
REINFORCED PACKAGE WRAPPER
Joseph Alfred Anglada, White Plains, N. Y., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application September 7, 1949, Serial No. 114,434
4 Claims. (Cl. 229—7)



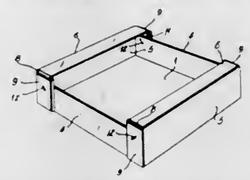
1. A container for packaged articles, such as paper napkins and the like, comprising a sheet of regenerated cellulose folded and sealed around a plurality of articles, an inner end flap formed by folds of said sheet, an outer end flap formed by folds of said sheet and sealed over the inner end flap to provide an end closure for the container, a reinforcing member secured to the inside of the sheet substantially at the bend line of the outer flap, and a tear tape positioned inside the sheet transversely of the reinforcing member and between the sheet and the reinforcing member, said reinforcing member being secured to the sheet on opposite sides of the tear tape whereby the reinforcing member remains intact at the bend line when the tape is removed to form an access opening in the sheet.

2,665,835
LINED BOX STRUCTURE
Robert M. Bergstein, Wyoming, Ohio
Application November 27, 1948, Serial No. 62,257
4 Claims. (Cl. 229—14)



1. In a machine lined paperboard box structure having enclosing body walls and incorporating a liner having the minimum rectangular area for completely internally lining the enclosing walls of said box structure, said box structure being formed from a paperboard blank cut and scored to provide a main panel, side and end wall panels articulated to said main panel, and flap members articulated to said side and end wall panels for forming the remaining wall of said box structure, a rectangular liner sheet overlying said bottom panel and said side and end wall panels, said rectangular liner sheet being diagonally disposed with respect to said main panel and having its edges coinciding with the outermost corners of said side and end wall panels, thereby providing triangular liner portions extending outwardly beyond said side and end wall panels and overlying said flap members, three of said flap members being triangular in outline and having their edges coinciding with the edges of the overlying corner portions of said liner sheet, the fourth of said closure flaps being larger than the overlying corner portion of said liner sheet and extending beyond the edges thereof, said triangular portions being marginally secured to said flap members, said first named three flap members being adapted to be folded into edge abutting relation in the erected box, whereby to bring edge portions of the corresponding liner corners into abutting relation, said fourth flap being foldable to overlie edge portions of said first named three flap members with the corner portion of the liner secured to said fourth flap member in edge abutting relation with adjacent edge portions of the liner corners secured to the opposed pair of said first named three flap members.

2,665,836
PRODUCE TRAY
Warren C. Rendall, Tampa, Fla., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland
Application January 10, 1951, Serial No. 205,345
2 Claims. (Cl. 229—32)

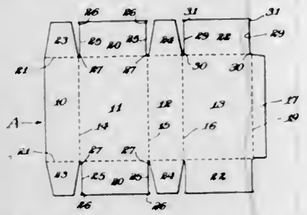


1. An open top rectangularly shaped tray comprising a bottom, a pair of opposed side walls and a pair of opposed end walls of greater height than said side walls, the upper edge of each of said end walls having a stacking flange integral and substantially co-extensive in length therewith folded inwardly at right angles thereto, said flange having end tabs depending therefrom, each end of said stacking flange being reinforced by a 3-ply rigid vertical load sustaining column extending from the bottom of said tray to the upper edge of said end wall, said column being formed by a flange connected to the end of said end wall folded inwardly at right angles thereto, said flange having an extension folded in spaced parallel relation to the inner face of said flange, said extension being positioned flatwise between the adjacent side wall and said end tab connected to said stacking flange, said end tab being interposed between said end wall flange and the folded extension thereof, all of said elements of said column extending to the bottom of said tray and being secured in flatwise contacting relation to said adjacent side wall.

2,665,837
CARTON
Reynolds Guyer, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application May 19, 1948, Serial No. 27,843
3 Claims. (Cl. 229—37)

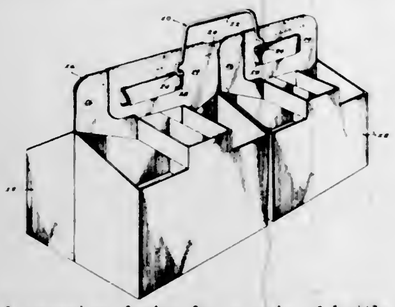
1. A carton including rectangularly arranged side walls and an end closure, the end closure including closing flaps issuing from each of the rectangularly arranged side walls, two of said closing flaps being of substantially the full dimensions of the end closure and being secured in surface contact, side edges upon said first named closing flaps extending adjacent to the lines of fold connecting the remaining two closing flaps with their respective side walls, said side edges being notched inwardly from the fold

lines connecting these first named flaps to their respective side walls to the free opposite edges of these first closing flaps, the ends of the notches being inclined to provide small pointed ears at each end thereof, the notched portions extending



in parallel relation, inwardly projecting beads extending along the fold lines connecting said remaining closing flaps to their respective end walls, said beads engaging in said notches, said remaining closing flaps overlying the first named closing flaps and being secured thereto.

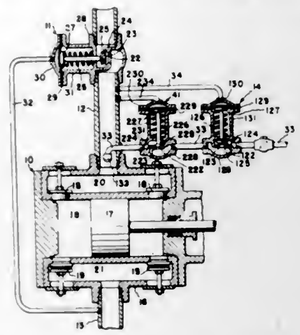
2,665,838
CARRYING DEVICE FOR BOTTLE CARRIERS
Homer W. Forrer, Atlanta, Ga., assignor to Atlanta Paper Company, a corporation of Georgia
Application May 15, 1950, Serial No. 162,002
3 Claims. (Cl. 229—52)



1. A carrying device for a pair of bottle carriers comprising in combination with two bottle carriers of the type including a handle portion having a hand-hold aperture therein and formed of a plurality of handle panels arranged in face to face relation and joined along a fold line at their top edges, a bar member inserted between the handle panels and above the hand-hold apertures of the handle portions of each of said bottle carriers, and a bail member having end portions engaging respectively the adjacent end portions of the hand-hold apertures of each of said bottle carriers and thereby retaining said carriers assembled on said bar member for carrying as a unit.

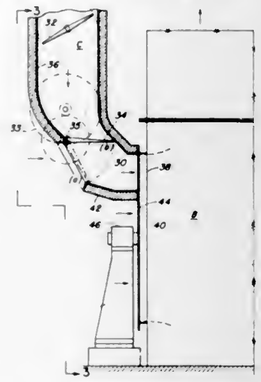
2,665,839
PRESSURE BOOSTER REGULATOR
Richard Ostwald, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application September 14, 1949, Serial No. 115,697
6 Claims. (Cl. 230—19)

1. A regulating device for a steam pressure booster having an inlet and an outlet, comprising a valve in said inlet for controlling the flow of steam through said inlet, means connected to said valve for actuating said valve in response to changes in pressure in the outlet, a conduit for supplying cooling water to steam in the inlet and connected to the inlet at a point downstream of the said valve, a valve in said conduit for controlling the rate of flow of cooling water through



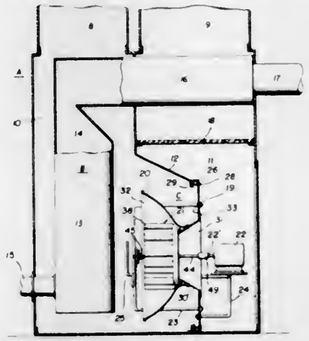
said conduit, and means operatively connected to the last valve responsive to variations in the rate of flow through said booster for actuating the last said valve.

2,665,840
FAN WITH ADJUSTABLE INLET FOR SECONDARY AIR
Elno M. Powell, Seven Bridges, N. Y., assignor to Combustion Engineering, Inc., New York, N. Y., a corporation of Delaware
Application September 1, 1949, Serial No. 113,587
1 Claim. (Cl. 230—114)



In a fan having a casing provided with an axial inlet of circular cross section through which primary air is drawn, an inlet box surrounding a selected portion of said axial inlet's area, said box having a bottom wall generally parallel to a transverse axis normal to the axis of rotation of said fan, two opposing side walls, and a roof wall generally conforming to the peripheral contour of said axial inlet; a fan journal bearing positioned adjacent said axial inlet but outside of said selected portion's inlet box; a duct cooperating with said inlet box walls for supplying secondary hot air into said selected inlet portion and including a duct wall forming a continuation of the bottom wall of said inlet box and interposed between the selected inlet portion and said journal bearing, whereby the bearing is shielded from and kept free of contact with said secondary air; said duct also including duct walls forming a continuation of the side walls and roof wall of said inlet box whereby hot secondary air delivered through said duct is confined to said selected portion inlet and prevented from spilling outside said fan casing and thereby constitute a hazard to operating personnel; said duct having a pivoted wall portion which is adjustable from one position in which substantially the entire area of said inlet including said selected portion is available for entrance of primary air and adjustable to another position in which said entire area of the inlet is available for entrance of primary air with the exception of said selected inlet portion through which secondary air from said duct then enters the fan, whereby substantially the total area of the fan's said axial inlet remains available for admission of air into the fan regardless of the position of said pivoted wall portion and the amount of secondary air being drawn through said duct.

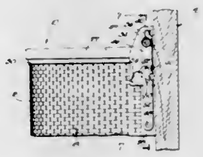
2,665,841
AIR CIRCULATOR
Rulo Wayne Smith, Auburn, Ind., assignor of one-half to J. Allen McMeen, Fort Wayne, Ind.
Application May 4, 1951, Serial No. 224,525
6 Claims. (Cl. 230—117)



1. A unitary air circulator including a motor and adapted to be mounted on a partition of an air conditioning apparatus comprising a base-plate, said base-plate being formed to include a central opening and a channel structure around its marginal edges for attachment of said base-plate to said partition, a cushion member supported on said channel structure for contacting said partition and preventing transmission of motor vibrations between said base-plate and said partition, a first bracket mounted on one side of said base-plate for supporting said motor coaxially of said opening, a second bracket mounted on the other side of said base-plate and including a bearing alined with the shaft of said motor, a blower including a supporting shaft mounted at one end in said bearing, a vibration absorbing coupling connected to the shaft of said motor and to the other end of said blower shaft for supporting and driving said blower shaft whereby motor vibration is not transmitted to said blower, and an air funnel mounted on said base-plate coaxially with said blower for defining an air path through said circulator.

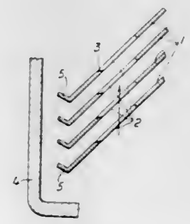
2,665,842
HAMPER
Herman Weintraub, Cedarhurst, and Carl Fuerst, Bronx, N. Y., assignors to Gleitsman's, Inc., Long Island City, N. Y., a corporation of New York
Application May 5, 1949, Serial No. 91,456
2 Claims. (Cl. 232—1)

1. A hamper for installation on any existing upright support such as a door, said hamper comprising an open-back and closed-bottom receptacle having remote from said bottom an opening other than said open back for the introduction into the hamper of the contents thereof, said receptacle being devoid of any cover provisions on the hamper for said open back, brackets on the opposite sides, respectively, and adjacent the top of said receptacle, said brackets being mountable on said upright support and having an elongated slot and a cam slot in spaced relation, said latter slot having downwardly directed inclined ends, pin means carried by said receptacle and positioned in said cam slot, mounting provisions carried by said receptacle and extending



through said elongated slots, said brackets floatingly hingedly carrying said receptacle for bodily movement in a plane parallel to said upright support and for swinging movement from a normal position in which its open back is closed by said upright support into a forward position in which its open-back is spaced from said upright support through the cooperative association of said mounting provisions and said elongated slots, said pin means being adapted to be received in one of said cam slot inclined ends for latching said receptacle in said normal position and said pin means being adapted to be received in the other one of said cam slot inclined ends for latching said receptacle in said forward position.

2,665,843
CENTRIFUGAL BOWL WITH CONICAL DISKS HAVING DISTRIBUTING HOLES
Per Hilding Staaff, Bromma, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application June 20, 1951, Serial No. 232,492
4 Claims. (Cl. 233—41)



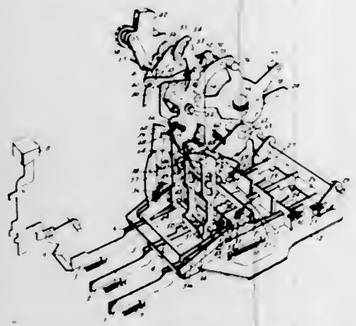
1. In a centrifugal separator bowl containing conical discs provided with distributing holes, for the separation of liquids containing sludge tending to clog the discs, the improvement which resides in at least some of the distributing holes, at the margins thereof where the sludge passes through the holes, being formed by chamfered edges of the discs, said chamfered edges forming sharp margins of the holes pointing generally radially of the rotation axis of the bowl and toward the opposite margins of the respective holes.

2,665,844

CALCULATING BUSINESS MACHINE

Karl Westinger, Ernst Altenburger, and Otto Hirt, Oberndorf (Neckar), Wurttemberg, Germany, assignors to Olympia Werke West G. m. b. H., Wilhelmshaven, Germany, a company of Germany

Application December 4, 1950, Serial No. 198,955
Claims priority, application Germany December 7, 1949
13 Claims. (Cl. 235—60.2)



1. A calculating machine comprising in combination, a register capable of occupying a first position and a second position corresponding to a positive and negative balance, respectively, of the items registered by it; an index slide, a totalling slide and a subtotalling slide, each being capable of occupying a plurality of positions, said totalling and subtotalling slides being each adapted to be shifted into one of its positions for carrying out totalling and subtotalling functions, respectively; means controlled by said register for limiting the shift of said totalling and subtotalling slides when said register is in its second position; a first preselecting slide arranged adjacent to said index slide and elastically coupled therewith; a second preselecting slide arranged adjacent to said totalling slide and elastically coupled therewith; a third preselecting slide arranged adjacent to said subtotalling slide and elastically coupled therewith; and means rigidly connected to said index slide and arranged to engage any of said totalling and subtotalling slides when the latter are shifted through a distance exceeding the shift of said index slide so as to impart to said index slide a shift equal to the shift of any of said totalling and subtotalling slides, whichever is the greater, thereby enabling a function of any of said slides to be preset by any of said preselecting slides while the preceding operation of said index slide, said totalling slide, and said subtotalling slide is still being performed, said preselecting slides being capable of shifting said totalling and subtotalling slides after the performance of the preceding function into that position which is determined by the shift-limiting means controlled by said register.

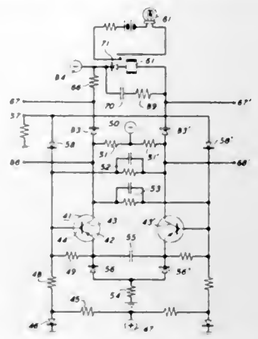
2,665,845

TRANSISTOR TRIGGER CIRCUIT FOR OPERATING RELAYS

Robert L. Trent, Far Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 8, 1952, Serial No. 313,762
10 Claims. (Cl. 235—92)

8. An n stage binary counter comprising n tandem connected trigger circuit, each of said trigger circuits comprising a pair of cross-connected transistor trigger circuits; said transistors each having an emitter electrode, a collector electrode and a base electrode, an emitter-base circuit and a collector-base circuit; a relay for each of said n trigger circuits each having a winding connected across the collector electrodes of its associated transistor trigger circuits; an asymmetrically conducting impedance element



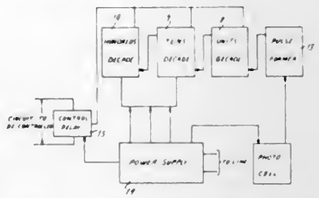
connected between each of said collectors and its associated relay winding; a current-responsive indicating circuit and means controlled by the operation of said relays for applying to said indicating circuit a current weighted in accordance with the binary significance of the trigger circuit controlling the application of said current to said indicating circuit.

2,665,846

ELECTRONIC COUNTING DEVICE

Philip Gilbert, Ferguson, Mo., assignor to Universal Match Corporation, St. Louis, Mo., a corporation of Delaware

Application March 12, 1951, Serial No. 215,175
19 Claims. (Cl. 235—132)



1. An electronic device including a plurality of decades each comprising a ring-of-five circuit, a scale-of-two circuit in each decade, a coincidence circuit in each decade having an output lead and a control element so arranged that the coincidence circuit will transmit electrical current to its output lead as long as the potential of the control element is in excess of a predetermined cut-off potential, an isolating network in each decade having opposite input leads and an output lead connected to the control element of the coincidence circuit, ten switches in each decade, each switch having two separate current paths therethrough respectively connected to the input leads of the isolating network, one of said paths in each switch being also connected to the scale-of-two circuit and the other path being connected to the ring-of-five circuit, said switches being interconnected so that only one of them can be "on" at one time whereby to cause the isolating network to impose upon the control element of the coincidence circuit a potential substantially below the cut-off potential thereof responsive to a predetermined count, and a relay having an

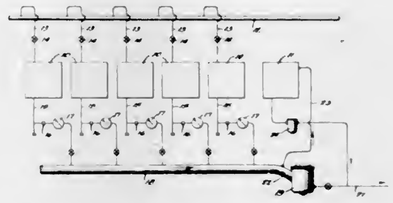
operating coil adapted upon being energized to hold the relay in a selected position, said operating coil being energized in common through all the output leads from the coincidence circuits of the decades so that when all said coincidence circuits are biased off coincidentally the relay will move out of said selected position.

2,665,847

STEAM FLOW CONTROL SYSTEM

Robert F. Schaub, Chicago, Ill., assignor to Fred H. Schaub Engineering Co., Inc., Chicago, Ill., an Illinois corporation

Application June 2, 1950, Serial No. 165,852
2 Claims. (Cl. 237—67)



1. A steam flow control system comprising a plurality of steam using units, a steam supply header, conduits connecting a majority of said units directly to the header, a relatively large substantially horizontal tubular return header extending adjacent to the units, conduits connecting said majority of the units to the return header and each including a flow control restriction, trap means connected to one end of the return header to prevent discharge of steam therefrom while permitting discharge of condensate, and a steam connection from upper part of the return header adjacent to the trap to the remainder of the units.

2,665,848

ROADBED SIMULATING ATTACHMENT FOR RAILROAD TRACKS

Raymond E. Smith, Hamden, and Maurice H. Romer, East Haven, Conn., assignors to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland

Application March 9, 1950, Serial No. 148,596
7 Claims. (Cl. 238—10)



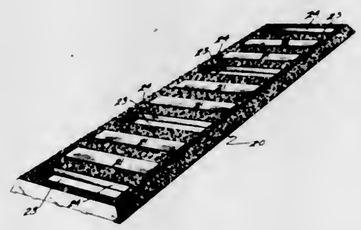
1. As an article of manufacture adapted for removable attachment to a skeleton section of toy track comprising laterally spaced apart toy track rails fixedly united by structural crossties underlying and spaced apart along the rails, an accessory mat comprising a slab-like body of flexible resilient material having an external configuration resembling in miniature the roadbed of a railroad track including in relief contour on the top surface of the mat a pseudo representation of the top portions of structural spaced apart crossties, said mat containing a plurality of separate spaced apart sockets formed by the material of said body below said top surface of the mat and located between said pseudo crossties, each of said sockets being separately expansible by distortion of said material and normally of shape and size to admit thereto and closely conform to the top portion of only a single one of the crossties.

2,665,849

PERFORATE ROADBED SIMULATING ATTACHMENT FOR TOY RAILROAD TRACKS

Raymond D. Smith, Easton, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland

Application July 13, 1950, Serial No. 173,559
3 Claims. (Cl. 238—10)



2. As an article of manufacture adapted for removable attachment to a skeleton section of toy track comprising laterally spaced apart track rails fixedly united by spaced apart underlying structural crossties, an accessory mat comprising a slab-like body of stretchable material having an external configuration resembling in miniature the road bed of a railroad track, said body containing a plurality of buttonhole forming perforations extending completely through its thickness and sufficiently smaller than said structural crossties to admit, contain and cling respectively to said crossties when the latter are buttoned into said apertures.

2,665,850

COMMINUTED PRODUCT AND METHOD OF GRINDING

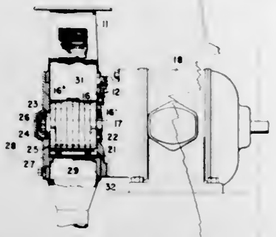
Sol B. Wiczer, Washington, D. C.

No Drawing. Application July 25, 1950, Serial No. 175,885
11 Claims. (Cl. 241—23)

1. Method of comminuting low thermoplastic solid bodies into finely divided free flowing particles comprising first rough crushing the solid with Dry Ice to form a coarse fragmentary mixture of thermo fusing solid and Dry Ice and then macerating the mixture while suspending the same in a gas.

11. A solid snowflake-like finely comminuted porous organic thermoplastic body formed by rough crushing a solid organic thermoplastic body with large fragments of Dry Ice and then macerating the coarse crushed mixture while suspending the same in a blast of gas.

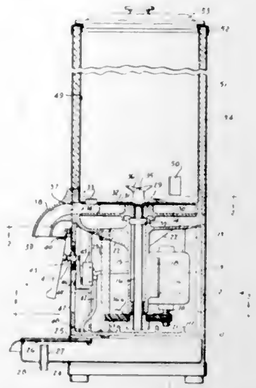
2,665,851
GARBAGE GRINDER
Robert W. Strehlow, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 29, 1950, Serial No. 164,923
1 Claim. (Cl. 241—73)



Apparatus for grinding garbage and the like, comprising a housing having two vertical opposed end walls; a grate extending between said walls to form a grinding chamber; a horizontal rotatable shaft extending through one of said walls and beyond the plane of the second of such walls; a cylindrical rotor element rigidly carried by said shaft within the grinding chamber and provided with peripheral teeth co-operable with said grate to disintegrate the garbage material, said rotor having vertical end faces having running clearance with the inward faces of said housing walls which clearances have radial straight-line communication with the grinding chamber at the periphery of the rotor whereby disintegrated particles of material finding their way into such clearance may be readily expelled therefrom into the chamber by centrifugal force imparted to such particles by the rotor, said second housing end wall having a recess therein concentric with and freely receiving the portion of the shaft extending beyond the plane of such wall, said recess having a diameter materially smaller than that of the rotor element; a washer mounted on the shaft abutting the rotor and disposed within said recess with running clearance between the outer periphery of the washer and the periphery of the recess, said recess providing substantial clearance around the shaft beyond the washer; and means fixedly securing the washer to the shaft for rotation therewith.

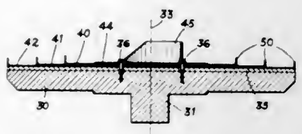
2,665,852
ICE CHIPPING MACHINE
John J. Shively, New York, N. Y.
Application June 17, 1950, Serial No. 168,727
5 Claims. (Cl. 241—92)

1. In an ice-chipping machine, in combination, means forming a working chamber including a hopper adapted to contain ice and a member supporting said hopper and comprising a bottom for said chamber, a rotary plate in said chamber and having a plurality of openings, a plurality of picks on said plate adjacent said openings, said picks being adapted to form chips from said ice and to deflect said chips through said openings, means forming an outlet passage from said chamber, a centrifugal ejector for said chips below said plate and picks and in cooperative alignment with said passage, said centrifugal ejector having a plurality of bottom air inlet openings circumferentially spaced from said first openings and in direct communication with the air above said bottom whereby said air may be ejected through said passage, means forming a second chamber below said supporting member, and a motor in said second chamber operatively connected to said rotary plate and said ejector.



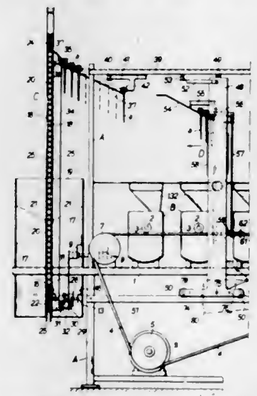
4. In an ice chipping device, in combination, a casing having a working chamber adapted to contain ice, means in said chamber to chip said ice, an outlet spout resiliently attached to said casing and forming an outlet for said chipped ice from said chamber, a centrifugal rotor cooperative with said chipping means and adapted to move said chipped ice from said chamber into said spout, and mechanical means operatively connecting said rotor and said spout to vibrate said spout.

2,665,853
TOOTHED CUTTING IMPELLER FOR PULPING SOLID MATERIALS IN LIQUID SUSPENSION
George B. Nicholson, Jr., Fulton, N. Y., assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application August 23, 1951, Serial No. 243,326
6 Claims. (Cl. 241—298)



1. An impeller adapted for use in disintegrating solid materials substantially without bruising thereof in apparatus of the character described including a chamber adapted to contain a quantity of relatively large particles of said materials in liquid suspension, comprising a plate adapted for rotation in said chamber about an axis substantially normal to said plate to subject said suspension to centrifugal force causing said suspension to circulate radially across the surface of said plate, means forming a plurality of relatively thin cutting blades adjacent the periphery of said plate and extending at substantial angles with respect to the plane of said plate, each said blade having a cutting leading edge thereon facing in said direction of movement to cross said radially circulating suspension at relatively large angles for effective shearing action on said particles therein, said blades being generally saw-toothed in shape and extending generally in line with the direction of movement thereof with said impeller to present minimum surface area to the radial flow of said suspension in use for avoiding bruising of said solid materials therein, and said blades being located adjacent the periphery of said plate to provide substantially maximum linear velocity therefor for a given angular velocity of said plate.

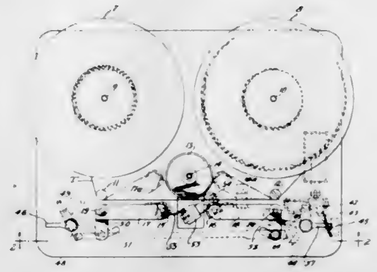
2,665,854
MULTIPLE IN-LINE SPOOLER
Walter Siegenthaler, Erlenbach, and Kaspar Laager, Kusnacht, Switzerland, assignors to Maschinenfabrik Scharer, Erlenbach, Switzerland
Application January 3, 1951, Serial No. 204,176
Claims priority, application Switzerland February 3, 1950
14 Claims. (Cl. 242—35.5)



1. In a winding frame having a plurality of winders arranged in line and involving automatic bobbin-changing means, the improvement defined by the provision of a bobbin dispenser structure movable by motor means to reciprocate continuously and uninterruptedly along the line of winders on a track fixed to said frame, a reciprocatable part mounted on each of said winders for presenting empty bobbins endwise to the winder and placing them thereon, a reciprocable dog associated with said part and operated thereby, control means mounted on said structure, the said dogs being consecutively operable to move from an inoperative to an operative position in accordance with the bobbin-changing operation in order to coact with said control means for the purpose of consecutively releasing from said structure an empty bobbin and moving the same to the respective winders, and to return to the inoperative position, the bobbin dispenser comprising a bobbin locking-and-releasing device for the empty bobbins, which device in both directions of reciprocation of the bobbin dispenser cooperates with said control means to be operated thereby for delivering empty bobbins to the winders.

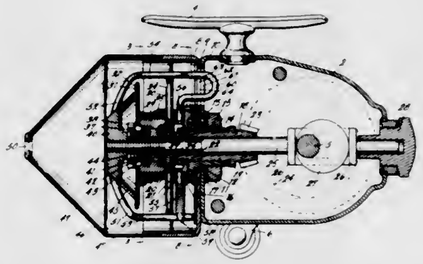
2,665,855
CONTROL MECHANISM FOR EQUIPMENT FOR HANDLING ELONGATED RECORDS
Burnham E. Stone, Philadelphia, Pa., assignor to The International Electronics Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 3, 1948, Serial No. 24,716
16 Claims. (Cl. 242—54)

1. In equipment having a pair of reels between which an elongated record is adapted to be fed, means for feeding a record from one reel to the other alternatively at a normal scanning speed and at a higher speed, a control for starting and stopping record feed, a control for changing the record feed speed between said normal scanning speed and said higher speed, and mechanism interlocking operation of said controls and providing against adjustment of the speed control



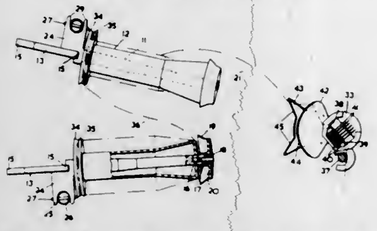
from the higher speed setting to the scanning speed setting when the start-stop control is in record-feed position.

2,665,856
SPINNING TYPE FISHING REEL
Henry G. Shakespeare and Gerald D. Harrington, Kalamazoo, Mich., assignors to Shakespeare Company, Kalamazoo, Mich.
Application February 3, 1950, Serial No. 142,143
18 Claims. (Cl. 242—84.4)



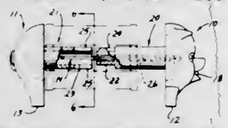
18. In a spinning type fishing reel, the combination of a support, a spool mounted on said support, a line pickup carrier rotatably mounted at the rear of the spool, a manually operated shaft operatively connected to said pickup carrier to rotate the same, a line pickup member, means for swingably mounting said pickup member on said carrier in forwardly projecting overhanging relation to said spool, said pickup member being swingable on said carrier between retracted and line winding positions, means for automatically returning said pickup member from line winding position to retracted position when the pickup carrier is rotated in reverse direction, and means for positively actuating said pickup member from retracted position to line winding position on the rotation of the pickup member carrier in line winding direction, said means for swingably mounting the pickup member on the carrier including a portion of the pickup member projecting radially inwardly therefrom and pivotally connected to the carrier rearwardly of the spool and radially inwardly of the periphery thereof, said means for retracting the pickup member including a spring coiled around the radially inwardly projecting portion of the pickup member and having its ends operatively associated with the carrier and the pickup member.

2,665,857
YARN-SUPPLY CREEL
Walter John Fisher and Thomas Eccles, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain
Application April 15, 1952, Serial No. 282,352
Claims priority, application Great Britain April 25, 1951
1 Claim. (Cl. 242—131)



A yarn-supply creel comprising a fixed framework, a plurality of fitments mounted on said framework in rows and columns and arranged in pairs of which each fitment is horizontally spaced from the other, a plurality of yarn-guide eyes, one common to each pair of fitments and mounted on said framework opposite the middle of said pair, a plurality of detachable package-carrying pegs adapted for mounting on said fitments so that the centre-lines of the pegs on each pair of fitments converge towards but intersect beyond their common yarn-guide eye and, between each pair of pegs and its yarn-guide eye, a generally horizontal guiding edge of a form adapted to guide a yarn through one of two points, one in alignment with each of said pegs, said edge being adapted to permit the lateral passage of a yarn from one of said points to the other.

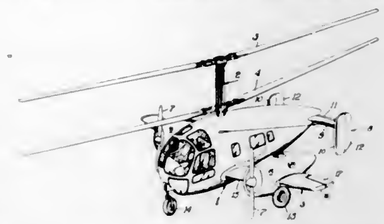
2,665,858
NOVELTY ANIMAL SPOOL SUPPORT
Marvin K. Barlow, Ridgefield, Conn.
Application August 29, 1950, Serial No. 182,073
1 Claim. (Cl. 242—139)



In a thread spool holder simulating the appearance of a four-legged animal, a section shaped to resemble the head and front legs of said animal, a second section shaped to resemble the tail and rear legs of said animal, said sections having cooperating elongated inwardly-extending interfitting tubular members which detachably and frictionally telescope with each other, said telescoping members enclosing a needle therewithin, and a thread-holding spool detachably mounted on said telescoping members and forming the central body portion of said animal, the legs of said sections serving to support said spool holder upon a flat surface.

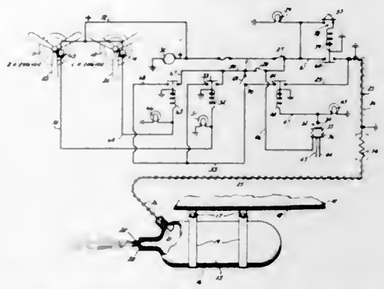
2,665,859
AIRCRAFT WITH ROTARY AND FIXED WINGS
Peter James Papadakos, Brookiyn, N. Y., assignor to Gyrodyne Company of America, Inc., New York, N. Y., a corporation of New York
Application December 19, 1950, Serial No. 201,628
5 Claims. (Cl. 244—7)

1. Aircraft comprising a fuselage, fixed wings projecting laterally from the fuselage, engines carried on said wings and spaced from the fuselage, propellers for forward propulsion associated respectively with and adapted to be driven by said engines, a rotor head surmounting the fuselage and comprising axially spaced, contrarotating coaxial rotors, coaxial shafts carrying said rotors and extending downwardly from the rotors, a central transmission connected to said rotor shafts for driving said rotor shafts at equal



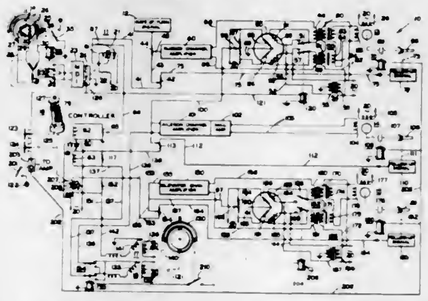
speed in opposite directions, a transmission unit disposed adjacent and connected to each engine and a torgue tube connecting each of said latter transmission units to the central transmission to provide driving connections between each engine and both rotors, said transmissions comprising means for selectively coupling each engine to both of said rotors and to the propeller associated with the engine.

2,665,860
AIRCRAFT CONTROL SYSTEM FOR OPERATING AUXILIARY POWER SOURCE AT TAKE-OFF
William H. Bancroft, Jr., Valley Center, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California
Application July 14, 1951, Serial No. 236,799
13 Claims. (Cl. 244—58)



2. Means mounted on an airplane having a right hand engine propelling unit and a left hand engine propelling unit adapted to propel the airplane along a runway at an accelerating speed, said means comprising: torque switches connected to the engines and having normally open electrical contacts when the engines are operating at or above a predetermined speed; a propellant oriented to generate a forward thrust sufficient to further accelerate the airplane and establish a desired rate of climb; first and second electrical relays having normally open contacts; a series circuit including a current generator, the contacts of said relays, and an igniting member constructed to fire said propellant; means electrically connected to said current generator and automatically responsive to a predetermined speed of the airplane to cause the operation of said first relay and the closing of the contacts thereof; and means electrically connected to said current generator and responsive to the closure of the torque switch of either engine due to the slowing down of an engine for causing the operation of said second relay, the closure of the contacts of said second relay causing the passage of current from said current generator through said igniting member and the firing of said propellant.

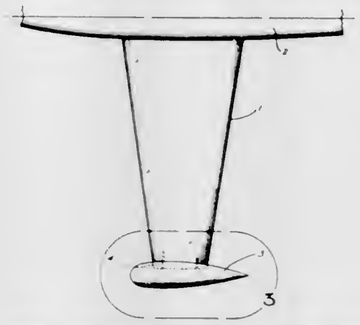
2,665,861
AUTOMATIC PILOT FOR MOBILE CRAFT
Alan M. MacCallum, Plainfield, and Corles M. Perkins, Sr., Rutherford, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application June 30, 1948, Serial No. 36,224
18 Claims. (Cl. 244—77)



1. An automatic pilot for aircraft having rudder, aileron, and elevator surfaces for controlling the heading and flight attitude of said craft, comprising a servomotor for moving each of said surfaces, course reference means on said craft for developing a signal in response to a departure of said craft from a predetermined course to energize the rudder servomotor, bank attitude reference means for developing a signal in response to a departure from level flight of the craft about the bank axis to energize said aileron servomotor, pitch attitude reference means for developing a signal in response to a departure of the craft from level flight about the pitch axis to energize the elevator servomotor, a follow back signal transmitter for each of said surfaces to develop a signal responsive to the position of the respective surfaces for modifying the respective control signals developed, means responsive to rudder forces developed by the rudder servomotor as a result of a bank attitude of the craft causing a change in craft course for developing a signal to trim the craft in bank to maintain the desired craft course, means responsive to a predetermined pitch attitude of the craft for developing a signal for maintaining the craft temporarily in the predetermined pitcl. attitude, to thereby avoid a sudden levelling-off of the craft and manually movable means for operating said rudder, aileron and elevator surfaces and operably associated with said rudder force responsive means, said manual means when moved making said rudder force responsive means ineffective.

2,665,862
TIP TANK WEDGE SUPPORT
Raymond E. Grill, Long Beach, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application August 3, 1948, Serial No. 42,299
12 Claims. (Cl. 244—135)

1. In an airplane, means for releasably supporting a mass in a centered position outwardly from a normally horizontal wing tip of said airplane, which comprises first support means permanently fixed within said wing tip and having exterior mass-contacting surfaces lying flush with the outer face of the skin of said wing tip, second support means permanently fixed to said mass and mating with said first support means in contact with said surfaces, both said support



means being positioned to carry substantially all of the vertical bending and compression loads imposed by said mass on said wing tip, a tension element connected at its inner end to said wing tip, said tension element arranged to extend horizontally through said mass, and adjustable fastening means carried by the outer end of said tension element.

2,665,863
PARACHUTE WITH DELAYED LANDING-SPEED
Adolf Muther, Zurich, Switzerland
Application August 3, 1949, Serial No. 108,251
Claims priority, application Switzerland August 9, 1948
4 Claims. (Cl. 244—150)



1. A parachute having means serving on one hand for accelerating the fall and on the other hand for automatically bringing about a smooth landing of the load, comprising a closure mechanism provided with a locking device, which mechanism is intended for bundling the guy ropes at a certain distance from the parachute rim so as to initially unfold the parachute in use only to a limited extent, said closure mechanism comprising two rotatably interconnected disks, one of the latter being circumferentially notched and the other being provided with catch lugs for securing the guy ropes in the said notches, each said disk comprising a portion of the locking device and being interconnected through a spring which is adapted to rotate the two disks relatively to each other upon releasing the locking device for the purpose of liberating the guy ropes, a pilot element of comparatively light weight and having a correspondingly thin pilot element line which connects the pilot element with the said locking device, and an arrangement for dis-

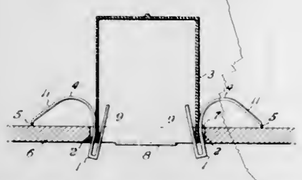
engaging the locking device when the pilot element hits the ground so that the said closure mechanism at a predetermined exact height above the ground may open for the purpose of a sudden additional unfolding of the parachute shortly before the landing.

2,665,864
PRELOADED RUBBER MOUNTING
Melvin Mooney, Mountain Lakes, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application June 26, 1948, Serial No. 35,457
1 Claim. (Cl. 248—10)



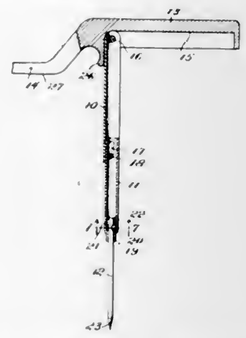
A pre-loaded rubber and metal shear-type mounting for resiliently supporting a definite service load with respect to a relatively fixed support, comprising a central flat metal plate, rectangular blocks of vulcanized rubber composition bonded to opposite faces of the metal plate, outer flat metal plates bonded to the outer face of each of said blocks of vulcanized rubber compound, said plates being adapted to be attached to a load and to a supporting member, said central plate being displaced with respect to said outer plates by an amount sufficient to place the said rubber blocks in a state of simple shearing deformation at least as great as the shearing deformation to which the rubber will be subjected under its normal service load, said plates having holes disposed in alignment when said plates are so displaced, and a retaining pin passing through said aligned holes in the plates to maintain the said blocks in said state of shearing deformation.

2,665,865
OUTLET BOX HOLDER
Audley P. Bell, Claysville, Pa.
Application June 18, 1951, Serial No. 232,159
1 Claim. (Cl. 248—27)



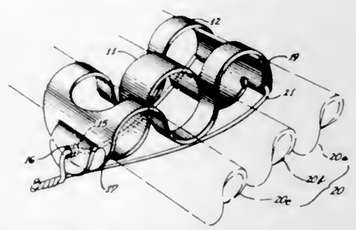
A holder for an electrical outlet box located within an opening of the plaster board facing of the wall of a room with its lateral flanges contacting the front side of the plaster board, said holder being formed of spring sheet metal into a bow the span of which is at least equal to its height, said bow having a middle gradually curved portion and oppositely inclined diverging legs, the free end of one leg of the bow being adapted to contact the adjacent back side of the plaster board, the other leg of the bow being provided with a reversely bent extension having an inclination similar to that of said other leg, said extension being spaced from the outer side of said other leg to provide a hook of which said other leg forms part for the reception of the free end portion of the adjacent side wall of said box, the opposite inner side wall faces of said hook being adapted to bear against the inner and outer faces of the adjacent side wall of said box in such manner that pressure exerted upon the hook at the front side of the plaster board will be transmitted through the bow to said free end to cause the holder to pivot upon said free end and bring said hook into tight embracing engagement with the adjacent side wall of said box.

2,665,866
COLLAPSIBLE FISHING ROD STAND
Robert G. Goldinger, Codell, Kans.
Application April 20, 1951, Serial No. 222,134
1 Claim. (Cl. 248—46)



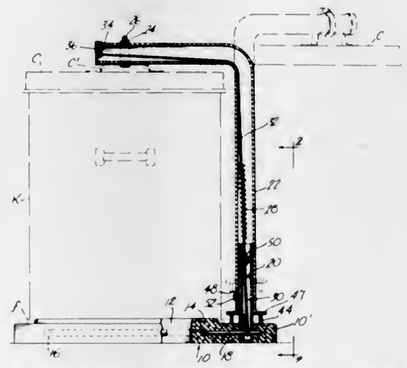
In a collapsible fishing rod stand, a first section having a U-shaped cross section, a tube provided with a pair of slots in its upper end, a pin extending through said slots and through said first section, the lower end of said tube being shaped to provide a nipple of reduced diameter, a bar projecting through said nipple and having a lower pointed end, a cylindrical lug extending from said bar, a retaining collar secured within said tube and spaced above said nipple, said collar being provided with a slot for receiving said lug.

2,665,867
LINE BINDER
John B. McDonald, Palos Verdes, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application January 20, 1951, Serial No. 206,994
1 Claim (Cl. 248—68)



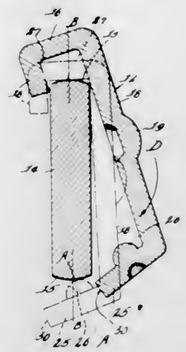
A device for binding together a plurality of parallel longitudinal members; comprising a unitary length of flexible metal strip having a lengthwise longitudinal strip cut away from the center thereof to define an intermediate wrapping element joined at one end only thereof to the remaining portion of said strip which forms an outer wrapping element extending completely around the edge of said intermediate wrapping element, a narrow slot transversely positioned in the end of said outer wrapping element adjacent the free end of said intermediate wrapping element, said slot being slightly longer than the width of said intermediate element, a first hole positioned outwardly of said slot, a second hole positioned in the free end of said intermediate strip and on center with said first hole, whereby when said intermediate and outer wrapping elements are alternately wrapped and woven around a plurality of parallel members and brought together at the end of said wrap, the end of said intermediate wrapping element can be passed through said transverse slot in said outer wrapping element and said holes aligned to receive a locking means.

2,665,868
GARBAGE CAN STAND
Peter A. Schmidt, Tacoma, Wash.
Application April 5, 1952, Serial No. 280,743
2 Claims. (Cl. 248—147)



1. A stand for a garbage can which has a separate downwardly flanged cover, comprising a pedestal adapted to locate and support such a can in fixed position, resting thereupon, an upright post anchored in and projecting upwardly from said pedestal, alongside the supported can, a movable cover support of inverted L-shape, the vertical leg whereof, at least, is hollow and fits rotatively about and is longitudinally slidable upon said post, the horizontal leg being at a level where it overlies the cover and is adapted for supporting connection thereto, a lever pivoted between its ends upon said pedestal, a pedal on one end thereof and its other end being bifurcated to straddle the post, and normally resting upon the pedestal, the lower end of the vertical leg of the cover support having an outstanding flange resting upon the bifurcated lever arm to be raised by the latter, when the pedal is depressed, from a lowered, can-covered limit position to an upper cover-lifted position, resilient means reacting between the post and said cover support to retain the latter normally in its lowered position, but yieldable under the influence of said pedal-actuated means, and cam means interengaged between said post and the vertical leg of said cover support, formed in a shape to constrain the latter, in moving upwardly, to substantially vertical movement until the cover is lifted clear of the can, and then to rotative movement with continued upward movement, to swing its horizontal arm and the cover aside, and said resilient means urging the horizontal arm and cover, in conjunction with said cam means, along a reverse path, to reseat the cover, upon release of said pedal-actuated means.

2,665,869
HANGER AND SPACER BRACKET
Martin L. Samuels, Chicago, Ill., assignor to Reflector Hardware Corporation, Chicago, Ill., a corporation of Illinois
Application March 12, 1948, Serial No. 14,402
3 Claims. (Cl. 248—214)

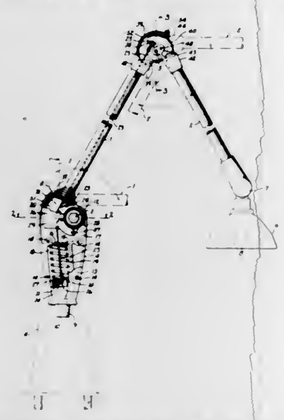


1. In combination with a bar which has top and bottom surfaces, the bottom surface being convex, a bracket having an upstanding relatively flat body portion, a hook including a first member extending rearwardly from the upper end of said body portion over the top surface of said bar and a second depending member extending downwardly behind said bar substantially parallel to said body portion, said hook pivotally supporting said bracket over the top surface of said bar, a substantially flat resilient member extending rearwardly from the lower end of said body portion, and embossed means formed on the upper surface of said flat member which solely engages said convex bottom surface of said bar to secure said bracket against sliding movement along said bar, said embossed means including a rounded portion which is in strong frictional relation with said convex surface and which slides on said convex surface in a direction transverse to the longitudinal direction of said bar as the lower end of said body portion of said bracket is pivoted toward and away from said bar.

2,665,870
ADJUSTABLE BRACKET STRUCTURE
Ferdinand A. de Wiess, New York, N. Y., assignor to Milton Fletcher, New York, N. Y.
Application May 27, 1950, Serial No. 164,717
5 Claims. (Cl. 248—280)

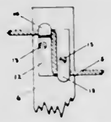
5. An adjustable bracket structure comprising a support, an arcuate cam means pivotally mounted on said support for limited angular displacement on a normally horizontal axis, said cam means having a curved rimmed portion in determined radially spaced relation to said horizontal axis; a cam actuating lever fixedly connected directly to said cam means adjacent one end of said rim portion and extending outwardly therefrom in a direction at right angles to said horizontal axis of the cam means; a load-supporting lever hinged to said cam actuating lever at its outward end for pivotal movement relative thereto on a hinge axis paralleling said horizontal axis of the cam means, said levers together forming a jointed bracket arm; and, elastic means for equilibrating said bracket arm on said cam axis comprising spring means carried by said support below said cam means, and a flexible link connected to said spring means in substantial axial alignment therewith traversing said cam

actuating lever in sliding engagement with the curved rim portion of said cam means for coupling said spring means to said load-supporting lever, said link being connected to said load-



supporting lever at a locus radially spaced from said hinge axis to constitute the lever a first class lever, and forming substantially a tangent between said locus and a point on said curved rim portion of said cam means.

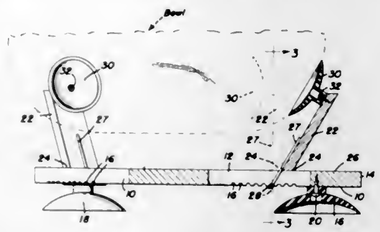
2,665,871
CLOTHES POLE
Amos R. Heath, Rochester, N. Y.
Application June 4, 1948, Serial No. 31,007
1 Claim. (Cl. 248—353)



A clothes pole having a substantially rectangular plate secured to one side thereof adjacent one end thereof, said plate having oppositely directed jaws offset from the plane of the plate, said jaws being located in diagonally opposite corners of the plate, one of said jaws extending in a direction toward the adjacent end of the pole and being formed along one side edge of the plate, and the other jaw being oppositely directed and formed along the other side edge of the plate, said jaws being laterally spaced whereby a clothesline may pass over one jaw, extend for a distance parallel with the longitudinal axis of the pole, and thence pass over the other jaw, said pole being pointed at its other end for projection into the ground whereby said pole may be held at a right angle to the ends of said clothesline extending away from the jaws by insertion into the ground.

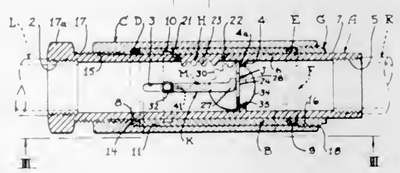
2,665,872
MIXING BOWL HOLDER
Louis I. De Witt, Bakersfield, Calif.
Application March 3, 1952, Serial No. 274,569
2 Claims. (Cl. 248—362)

1. In a structure of the class described, in combination, a base with at least one arm, a rubber suction cup attached to the underside portion of the outer end of said arm for temporarily attaching the same to a table or the like, said arm having a longitudinal centrally disposed slot and being provided on its under side with paired keeper notches, a bowl supporting arm having a mitered lower end engaged with the top of said one arm, a rubber suction cup attached to the upper end of said bowl holding arm, a T-shaped bracket



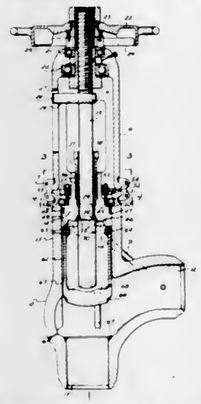
having a stem portion superimposed or secured to said holding arm and also having a cross-head, said stem portion extending slidably through the slot and said cross-head being arranged to selectively engage in said notches.

2,665,873
IN-LINE VALVE
William O. Backman, Sacramento, and Don M. Redmon, Concord, Calif.
Application January 7, 1952, Serial No. 265,295
9 Claims. (Cl. 251—11)



1. An in-line valve comprising a cylindrical valve housing adapted to be connected into a line through which material flows; said housing having longitudinally extending slots disposed diametrically opposite to each other; a valve body mounted within the housing and being movable from open to closed position and vice versa; means for moving the valve body and including axially aligned members that extend at right angles to the longitudinal axis of the housing; spring pressed caps slidably carried by the axially aligned members at their outer ends and being slidably received in the slots; an inner sleeve slidable along the valve housing and covering the slots; said sleeve having an inner annular groove designed to slidably receive the outer ends of the caps; an outer sleeve enclosing the inner sleeve and adjustably connected to the valve housing; means for connecting the two sleeves together so that a longitudinal movement of the outer one with respect to the valve housing will move the inner one in the same direction and cause its annular groove to move the caps in the slots and move the valve body opening and closing means in the desired direction.

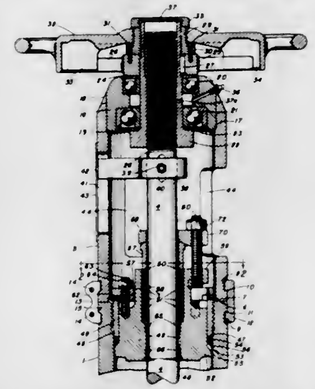
2,665,874
BONNET AND SEALING STRUCTURE FOR VALVES
David MacGregor, East Chicago, Ind., assignor to Edward Valves, Inc., East Chicago, Ind., a corporation of Indiana
Application November 3, 1950, Serial No. 193,969
6 Claims. (Cl. 251—49)



1. In a valve having a main body portion for the passage of fluid and a hollow extension above said main body portion for receiving a valve stem, said extension having an annular groove in its inner surface and an upwardly facing shoulder above said groove; an annular bonnet having an internal surface for guiding said stem and an external surface slidingly engaging said extension, said external surface terminating in an annular inclined shoulder, an annular sealing gasket telescoped around said bonnet above said inclined shoulder having a sloping surface inclined with respect to said inclined shoulder, the angle between said sloping surface and said extension being smaller than the angle between said inclined shoulder and said extension, a fixed segmental retainer ring for said gasket telescoped around said bonnet and extending into said groove in said extension, a second retainer ring telescoped around said bonnet and adapted to seat on said upwardly facing shoulder in spaced relation with said fixed retainer ring, and means connecting said second retainer ring and said bonnet for moving said bonnet upwardly to urge said inclined shoulder into forced engagement with said sloping surface whereby said gasket is forced into sealing engagement with said extension over an area of substantial width, said bonnet being upwardly movable independently of said fixed retainer ring under the influence of the pressure of said fluid to increase the area of sealing engagement between the gasket and the extension.

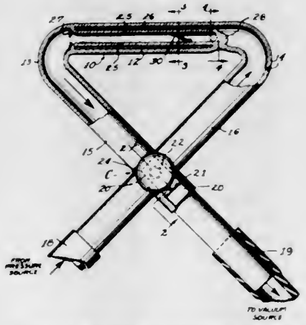
2,665,875
VALVE CONSTRUCTION
David MacGregor, Munster, Ind., assignor to Edward Valves Incorporated, East Chicago, Ind., a corporation of Indiana
Application April 15, 1946, Serial No. 662,341
3 Claims. (Cl. 251—49)

1. In a valve structure, a hollow valve body having a fluid passage and a hollow extension provided with a straight walled cylindrical bore for receiving a bonnet, means forming an internal annular downwardly facing shoulder within said bore, an annular gasket having an outer peripheral surface parallel to and received within said bore having one face seated against said shoulder and having its opposite face inclined away from said shoulder and outwardly toward said bore at an acute angle thereto, a bonnet slidably fitted in said bore and having a central aperture and a reduced portion within said gasket terminating at its lower end in an outwardly flaring upwardly facing wall adapted to be forced into annular contact with said inclined



face of said gasket, the angle between said bore and said inclined face of said gasket being smaller than the angle between said bore and the flaring wall of said bonnet, a pair of annular bearing means in said aperture for guiding a valve stem, said bearing means being spaced respectively, above and below said wall, sealing means within said aperture adapted to surround said valve stem, and means associated with said bonnet for compressing said sealing means.

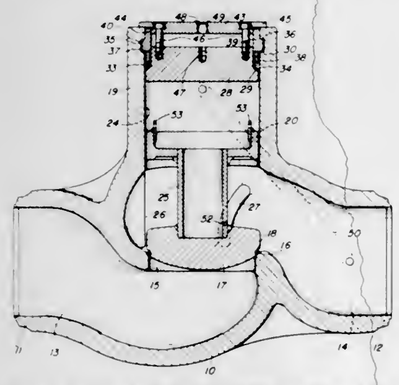
2,665,876
DEFORMABLE MICROLEAK VALVE
John J. Hopfield, Bethesda, Md.
Application June 28, 1951, Serial No. 234,083
9 Claims. (Cl. 251—115)



1. A microleak valve comprising an outer tube reversely bent at spaced intervals to provide a pair of integral angularly extending arms crossing one another with a normally constant clearance space therebetween, said arms being respectively communicably connected to separate sources of different gas pressures, an inner tube closed at one end and having a helical crack therein disposed within said outer tube intermediate said arms to provide an annular channel between the tubes, the open end of said inner tube being circumferentially secured to the inner wall of said outer tube sealing off said channel from communication with one of said arms,

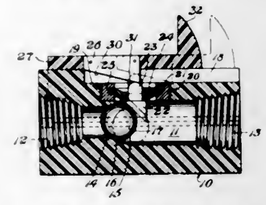
said crack when closed preventing communication between said arms and when open establishing communication therebetween, the closed end of said inner tube being locally secured to the inner wall of said outer tube to establish communication between said arms solely through said crack, and means for moving said arms towards one another to vary the width of said crack through the medium of opposed torque forces, thereby controlling gas leakage from one of said pressure sources to the other through said helical crack.

2,665,877
PRESSURE SEALED VALVE
David MacGregor, Munster, Ind., assignor to Edward Valves Incorporated, East Chicago, Ind., a corporation of Indiana
Application May 7, 1947, Serial No. 746,582
4 Claims. (Cl. 251—128)



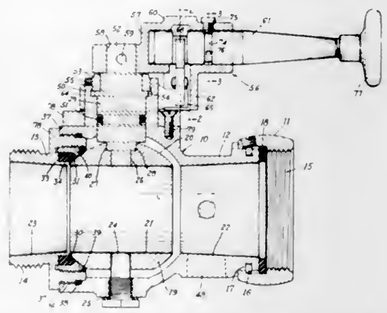
4. In a valve, a hollow body having an inlet passage and an outlet passage and an internal valve seat therebetween; a valve element including a disk adapted to be urged away from said seat by fluid flowing through said valve from said inlet passage toward said outlet passage and a guide piston rigid with said disk, said body being constructed to direct incoming fluid against the lower surface of said disk in all positions thereof; means forming a bore having a substantially cylindrical portion in said body above and coaxial with said seat for slidably receiving the guide piston during movement of said disk toward and away from said valve seat; means forming an annular downwardly facing shoulder within said bore; a closure member having an enlarged portion below said shoulder, slidably mounted in said substantially cylindrical portion of said bore and forming with said guide piston a substantially closed chamber in said bore; an annular sealing gasket between said shoulder and said enlarged portion; closure tightening means for urging said closure member towards said shoulder to compress and force said gasket outwardly against said bore with an initial sealing pressure; cooperating abutment means on said valve element and said closure member for limiting upward movement of valve element, said abutment means being operative to maintain said lower surface of said disk in the path of said incoming fluid in the full open position of said valve element whereby the incoming fluid exerts a sustained force on said disk which is transmitted through said abutment means to said closure member to further urge said closure member upwardly to thereby augment said initial sealing pressure; and a pressure equalizing conduit independent of said outlet passage connecting said chamber with the outlet passage in all positions of said valve element to vent said chamber, assist in moving said valve element to its full open sealing pressure augmenting position and stabilize the valve element in its full open position.

2,665,878
BALL VALVE
Max Grunt, Newark, N. J.
Application March 7, 1950, Serial No. 148,243
11 Claims. (Cl. 251—131)



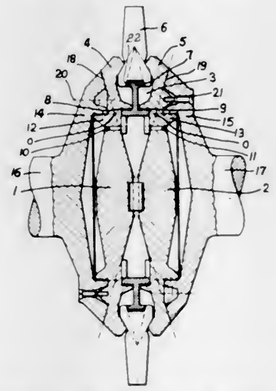
3. In a ball valve, a valve body having an axially extending passageway formed therein, said passageway intersecting an opening formed in said valve body perpendicular to said passageway, a valve seat located in said passageway adjacent the intersection of said passageway and said opening, a ball disposed in said passageway and adapted to engage said valve seat, a wedge extending through said opening and adapted to be reciprocated therein, said wedge having a sloping surface formed on the lowermost end thereof engaging said ball, and a semi-cylindrical jacket slidably mounted on said valve body and operatively engaging said wedge, said jacket being moved laterally to actuate said wedge for moving said ball into engagement with said valve seat.

2,665,879
CONTROL VALVE FOR FIRE HOSE LINES
Earl J. Housekeeper, Rutherford H. Hunter, and Carl J. Braun, Wooster, Ohio, assignors, by mesne assignments, to The Fyr-Fyter Company, Dayton, Ohio, a corporation of Ohio
Application November 13, 1951, Serial No. 256,095
5 Claims. (Cl. 251—163)



1. In a control valve having a housing and a tubular ball shut-off rotatably mounted between inlet and outlet ports in said housing, a sleeve portion projecting from one side of said housing, a valve stem journaled in said sleeve portion and operatively connected to said ball, a handle connected to said valve stem for rotating said ball shut-off, a split ring secured to said handle and fitting around said sleeve portion, said handle having an axially rotatable portion, and lever means operated by rotation of said handle portion for clamping said split ring on said sleeve portion at any position of said ball shut-off.

2,665,880
TURBINE ROTOR
Christian Schörner, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany, a corporation of Germany
Application July 17, 1951, Serial No. 237,230
Claims priority, application Germany January 20, 1951
4 Claims. (Cl. 253—39)



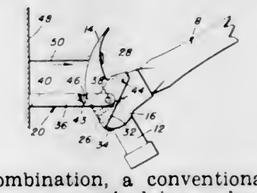
1. In a gas turbine having blades secured in an annular groove around the rim of a rotor and a rotor shaft, the combination which comprises a pair of cooperating carrier members for carrying said blades, means for securing said carrier members together gripping said blades therebetween, bearing surfaces on said carrier members adjacent the extremes thereof, supporting members on said rotor shaft, means for affixing said carrier members to said supporting members, bearing surfaces on said supporting members for cooperating engagement with said bearing surfaces on said carrier members supporting said carrier members against separation.

2,665,881
COOLED TURBINE BLADE
Robert H. Smith and Cornelius J. Van Haltern, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 15, 1948, Serial No. 33,108
1 Claim. (Cl. 253—39.15)



A turbine blade of the air cooled type having root and tip portions formed thereon, leading and trailing edges extending between said root and tip portions, said blade further including a body member having a hollow interior, and a stiff core within the hollow body member and bonded to the interior of such member for rigidifying same, said body member being formed with a reverse flare toward the tip portion so that the distance between said leading and trailing edges is a maximum at a point intermediate said tip and root portions, said core member being shaped to mate therewith whereby the core and body member are restrained from any relative radial movement due to centrifugal force, said hollow body member being formed of impervious metal and having a smooth finished exterior surface, said core being formed of a sintered metallic powder having a porous texture, said covering having openings therein at the root and tip portion and along the trailing edge to expose the pervious core, said pervious core having interstitial passages therein for the passage of cooling air therethrough, and said openings providing entrance and exit passages for said cooling air.

2,665,882
NAIL PULLING ATTACHMENT FOR HAMMERS
Melford B. Bornus, Montevideo, Minn.
Application April 21, 1952, Serial No. 283,348
2 Claims. (Cl. 254—26)

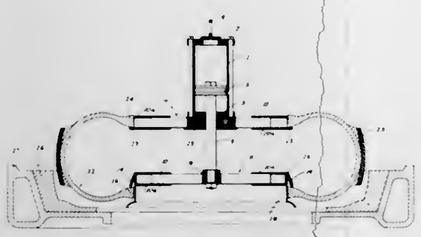


1. In combination, a conventional type carpenter's hammer embodying a head having a centrally arranged socket member and a handle having one end telescopically fitted and secured in the socket of said member, a one-piece substantially U-shaped cradling yoke, and an attaching bridle firmly and snugly encircling and harnessed on said socket member, said bridle comprising a one-piece substantially rectangular endless frame having a first transverse end member bridging the socket at the outer end of said socket member and formed with a laterally offset flange conformingly and retentively engaging a complemental portion of said head, having a second transverse end member at the opposite end bridging a complemental portion of said socket member, and having longitudinal side members embracing adjacent complemental side surfaces of said socket member, said first transverse end member having an opening in alignment with the adjacent end of said handle, a fastener passing through said opening and secured in the cooperating end portion of said handle, the arms of said cradling yoke straddling said longitudinal side members and being pivotally connected thereto.

2,665,883
TIRE MANIPULATING DEVICE
Edwin A. Glynn, Lodi, Calif., assignor to Super Mold Corporation of California, Lodi, Calif., a corporation of California
Application August 28, 1950, Serial No. 181,826
1 Claim. (Cl. 254—50.3)

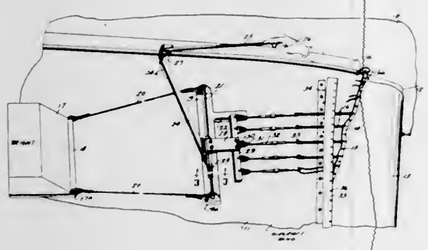
A device for spreading the beads of a horizontally disposed tire comprising upper and lower axially separable radial units adapted to aline

with the inner faces of the corresponding tire beads, power means connected to said units to cause relative separation thereof whereby to increase the spacing of the tire beads when engaged by the units, the upper unit including means to engage the upper bead in lifting relation; and the lower unit including a plurality of circum-



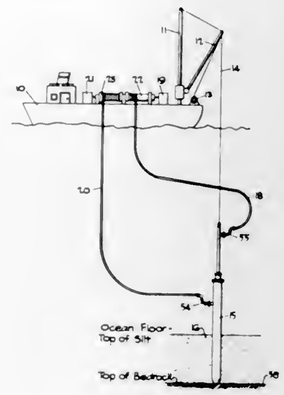
ferentially spaced radial arms adapted to terminate adjacent the base of the lower tire bead, and annular flanges depending from the upper edge of said arms to engage the upper surface of the lower tire bead; said annular flanges being spaced radially out from the outer end of said arms and forming downwardly opening notches therewith.

2,665,884
DEICER BOOT APPLYING TOOL
Raymond F. Martin, Fairborn, Ohio
Application June 15, 1951, Serial No. 231,888
4 Claims. (Cl. 254—77)
(Granted under Title 35, U. S. Code (1952), sec. 266)



4. A portable manually operable device for applying a de-icing boot to the leading edge of an airplane wing, comprising, anchoring means having a lower frictional surface for frictional supporting engagement with the upper surface of the wing to create resistance to drag between the anchoring means and the top surface of the wing, a lever arm pivotally and slidably connected to the anchoring means for swing movements toward and away from the leading edge of the wing and transverse sliding adjustment movements, means pivotally connected to said lever arm intermediate the pivotal and slidable connection aforesaid and its free end including a plurality of spaced connectors adapted to be connected to the upper edge of the de-icer boot at spaced points, and individual length adjusting means in each of said spaced connectors.

2,665,885
APPARATUS FOR OFFSHORE CORING
John R. Gignoux, San Gabriel, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application October 25, 1948, Serial No. 56,372
4 Claims. (Cl. 255—1.4)

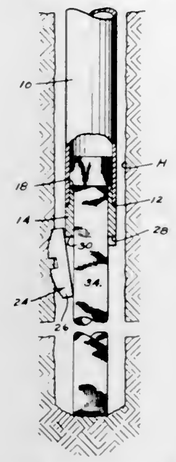


1. An apparatus adapted to be lowered below the surface of water to obtain cores from submerged formations, comprising in combination an outer elongated cylindrical housing member adapted to be lowered through the water and to be vertically positioned on the formation to be cored, said housing member having axially apertured closures at each end, an elongated inner member axially disposed within said housing member and in spaced relationship thereto to allow passage of fluid therebetween, said inner member comprising prime mover means adapted for limited axial movement within said housing member, a tubing member fixedly connected to said prime mover means to one side thereof, the outer end of said tubing member slidably extending through the upper apertured closure of said outer housing member, a core barrel fixedly connected to the prime mover means to the other side thereof, the outer end of said core barrel slidably extending through the lower apertured closure of said outer housing member, conduit means extending from above the surface in communication with said outer housing member for supplying a pressure fluid thereto, port means in the lower end of said housing member to permit said pressure fluid to jet therefrom, and flexible power transmission conduit means in communication between the surface and said tubing member for supplying motive power to said prime mover means.

2,665,886
METHOD AND APPARATUS FOR DRILLING WELLS
William H. Ellis, Lovelaceville, Ky.
Application September 20, 1950, Serial No. 185,819
4 Claims. (Cl. 255—1.8)

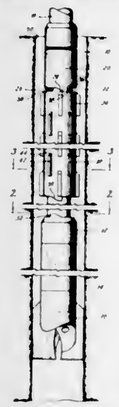
1. The herein described method of drilling a well which comprises advancing into the ground a well pipe carrying an elongate drill bit disposed across the advancing end of the pipe, effecting the shifting of one end of the bit downwardly away from the pipe while maintaining the other end against such downward shifting to effect the

swinging of the bit downwardly and laterally into the earth wall of the well hole, and then running



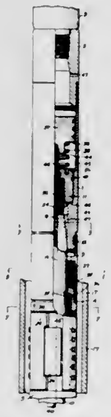
a strainer through and beyond the lower end of the well pipe past the bit.

2,665,887
COMBINATION JAR AND KEY SEAT REAMER
Leonard L. Shelton, Houston, Tex., assignor to Houston Oil Field Material Company, Inc., Houston, Tex., a corporation of Delaware
Application August 3, 1951, Serial No. 240,123
3 Claims. (Cl. 255—27)



1. A combination jar and key seat reamer for engaging and enlarging key seats formed in well bores by a string of pipe comprising, an elongate support, a sleeve member having reaming cutters on its outer surface, said sleeve member being rotatably and slidably mounted on said support, said sleeve member being of less length than that of said support, enlarged portions at each end of the support limiting upward and downward movement of said sleeve member, engageable clutch elements at one end of the sleeve and the enlarged portion adjacent thereto for transmitting rotation from said support to said sleeve upon engagement of such clutch elements, and cooperating rotary jar elements at the other end of said sleeve and the other of said enlarged portions, said rotary jar elements comprising engageable cam surfaces projecting from said other end of the sleeve and said other of said enlarged portions, respectively, so that while the sleeve member is lodged in the key seat relative longitudinal movement of the support and sleeve will engage said cam surfaces and relative rotation of the support and the sleeve member will cause the cam surfaces to ride over each other thereby percussively jarring said sleeve member.

2,665,888
DEVICE FOR UNSCREWING PIPE
Robbins M. Claypool and David M. Best, Houston, Tex., assignors to Houston Oil Field Material Company, Inc., Houston, Tex., a corporation of Delaware
Application May 10, 1948, Serial No. 26,094
16 Claims. (Cl. 255—35)

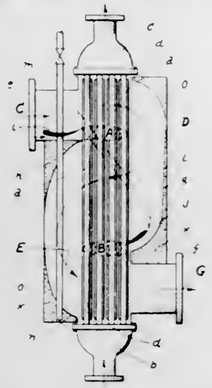


1. A pipe unscrewing device comprising, anchor means rotatable in one direction, a drive shaft extending through said anchor means, a sleeve member rotatably surrounding said drive shaft, a single set of planetary gears connecting the drive shaft to said sleeve member, said single set of planetary gears including a gear element connected to said anchor means, backup members carried by said anchor means, and means connected between said backup members and said drive shaft for moving the backup members to engage a wall of a well bore and thereby anchor said anchor means and said gear element against rotation for rotating said sleeve member reversely with respect to rotation of said drive shaft.

2,665,889
HEAT EXCHANGER
André Huet, Paris, France
Application April 14, 1948, Serial No. 21,025
1 Claim. (Cl. 257—224)

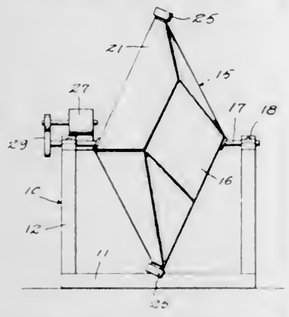
In heat exchange apparatus having a bundle of tubes through which one fluid flows arranged in a space traversed in several passes by another fluid which thus circulates over and amongst said tubes to effect transfer of heat, a casing surrounding said bundle of tubes having an inlet through which the external fluid enters the casing in a direction at right angles to the longitudinal axis of the tube bundle, and an outlet opening for the external fluid; a fluid diffusing device and a converging nozzle each effective to create on its downstream side, within the space occupied by the tube bundle, a fluid baffle which the main stream of the external fluid must circumvent in

traversing the tube bundle, the said diffusing device being located adjacent the said inlet for the external fluid and being fed by the incoming fluid and creating the baffle first encountered by the said main stream of the external fluid, the fluid composing such baffle having a lesser speed and



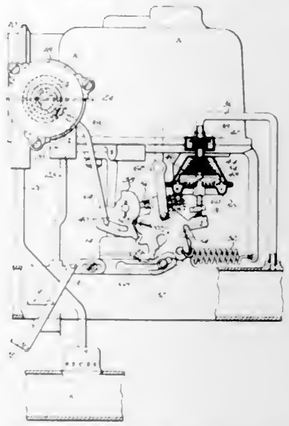
higher static pressure than the main stream of external fluid, and the said nozzle being positioned to create another baffle subsequently encountered by the main stream of external fluid; a duct for conveying external fluid from said inlet to said nozzle, said latter baffle having a higher speed than the main stream of external fluid.

2,665,890
POWDER MIXER
Arthur L. Hall, Memphis, Tenn.
Application January 25, 1952, Serial No. 268,250
1 Claim. (Cl. 259—89)



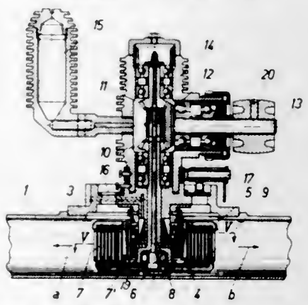
A dry powder mixer comprising a rotatably mounted hollow body which has a pair of opposed open ends, a tapered funnel-shaped member having inclined walls and extending from each end in communication therewith, the apex of one member being diagonally disposed with respect to the apex of the other member and the apex of one member being in alignment with one side of the body while the apex of the other member is in alignment with the opposite side of the body, the inclined walls of said members serving to shift powder transversely of the body from one apex to the other during rotation of the body, removable closures on the apex of each member, a shaft fixed to and extending through the body, said shaft extending through diagonally opposite corners of the body and having its longitudinal axis lying on a line oblique to a line joining the apices of the members, said body being disposed on an oblique angle to said shaft, opposed pairs of baffles in said body and extending axially between the open ends, and means rotatably supporting said shaft.

2,665,891
ANTISTALL DEVICE
Marion L. Smitley, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application December 30, 1950, Serial No. 203,690
8 Claims. (Cl. 261—52)



1. In a carburetor, choke and throttle valve, a throttle shaft, a manually operated first throttle lever freely rotatable thereon, a second throttle lever fixed to said shaft, a first idle stop carried by said second lever, a spring connecting the first throttle lever to the second throttle lever, an idle cam rotatably mounted on said carburetor and adapted to engage said first stop, an operative connection between said choke valve and said rotatably mounted idle cam so that as the choke is moved towards its open position the idle cam is moved to its slow idle position, a second idle stop also mounted on said second lever, an abutment for engaging said second stop, a dash pot engaging said abutment so as to delay the engagement of said idle cam by said first stop for a period of time determined by the relative stiffness of said spring and the resistance of said dash pot.

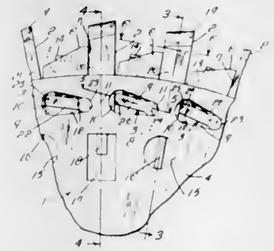
2,665,892
ROTARY MIXER TYPE CARBURETOR
Anton Rumpler, Vienna, Austria
Application June 15, 1951, Serial No. 231,689
5 Claims. (Cl. 261—89)



1. A carburetor for an internal-combustion engine, comprising two coaxial rotors arranged one above the other and mutually projecting one

into the other with concentric cutting elements, a fuel supply connection to the central part of the lower rotor, an air supply connection to the rotors, and means for turning one rotor in one sense and the other rotor in the opposite sense, the cutting elements of the lower rotor being arranged in several concentric rims the innermost of which has fine slots which are inclined in respect of the axis of rotation oppositely to the sense of rotation of said lower rotor, and said innermost rim having an upwardly widening conical internal surface, said cutting elements being adapted to cut through a fuel-air stream passing through the rotors.

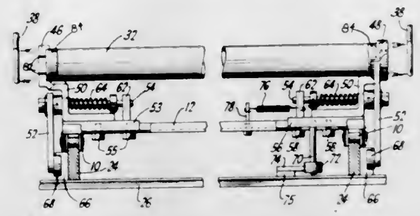
2,665,893
BIT SECURING DEVICE FOR ROTARY PAVEMENT CUTTERS OR THE LIKE
Charles F. Ball, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 10, 1949, Serial No. 115,000
4 Claims. (Cl. 262—33)



1. In combination, a rotary cutter wheel having a series of radially located sockets opening outwardly through the periphery thereof, transverse openings at the peripheral portion of the wheel between said sockets and opening into said sockets, cutters receivable in said sockets and having cutting portions projecting outwardly from the wheel periphery, a pivoted keeper arranged in each of said transverse openings and swingable inwardly into engagement with the front surfaces of said cutters for securing the latter in said sockets, and set screws threaded in the peripheral portion of the wheel outwardly of said openings and adjustable into engagement with the outer surfaces of said keepers for swinging the latter inwardly in the cutter securing position, each of said keepers having a bearing portion engaging one end wall of each transverse opening and having its bearing portion recessed to receive a cutter disposed in the next adjacent socket whereby said adjacent cutter serves to hold the keeper against endwise displacement from its opening in the event the set screw becomes loosened.

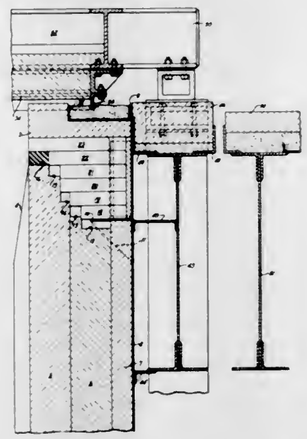
2,665,894
LAMP BASING MACHINE
Harold E. Baker, Danvers, and Joseph H. Brooks, West Peabody, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application June 16, 1951, Serial No. 231,964
2 Claims. (Cl. 263—8)

1. Apparatus for securing a base, having a thermo-setting cement disposed therein, to each end of an elongated tubular electric lamp simultaneously, said apparatus comprising: a conveyor; a bar mounted on said conveyor transversely thereof; a pair of separable heads mounted at the ends of said bar for receiving a base and supporting the lamp; means for reciprocably displacing said heads longitudinally with respect to one another to admit therebetween a lamp with a base positioned on each end thereof and to effect end-on engagement of the bases with said



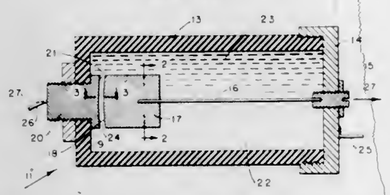
heads; means for opening and closing each of said heads for sequentially receiving, securing and freeing a lamp base; and heating means disposed adjacent to the path traversed by said heads on said conveyor for curing the thermo-setting cement disposed in the bases and thereby effecting attachment of the bases to the ends of the lamp.

2,665,895
SOAKING PIT CURB WALL WITH FIXED ELEVATION
Carl L. Herman, Canonsburg, Pa., assignor to Amsler Morton Corporation, Pittsburgh, Pa., a corporation of Delaware
Application April 30, 1953, Serial No. 352,229
11 Claims. (Cl. 263—46)



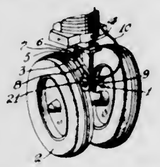
1. A furnace structure comprising a bottom, an annular wall forming furnace chamber with said bottom, a frame extending above and on the outer side of said annular wall, an annular curb supported by said frame to extend over the top of said annular wall and in spaced relation therewith to allow for sealed vertical expansion between the top of the annular wall and the annular curb, a roof supported independently of said annular curb and forming a closure for the top of said furnace chamber, and sealing means between said roof and annular curb to isolate said furnace chamber as an independent pressure chamber.

2,665,896
VARIABLE RESISTANCE ACCELERATION SENSITIVE DEVICE
Frank J. Kirby and Willis E. Vore, Inyokern, China Lake, Calif.
Application May 6, 1952, Serial No. 286,412
8 Claims. (Cl. 264—1)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Apparatus for measuring acceleration of a moving body in a direction transverse to its general direction of movement, comprising: an electrical resistance device carried by the body having a pair of electrodes adapted to move relatively in response to transverse acceleration of the body, said electrodes being disposed within an electrolyte, the electrical resistance between which, through the electrolyte, varies as the electrodes move relatively, and means for measuring variations in the resistance between the electrodes.

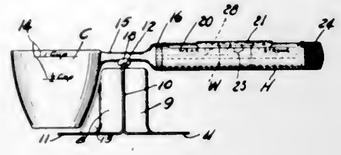
2,665,897
GEARLESS DRIVE FOR SPEED AND DISTANCE RECORDING INSTRUMENTS
Delbert Clark Mollenhour, Mentone, Ind., assignor to Frank Manufacturing Company, Inc., Mentone, Ind., a corporation of Indiana
Application March 19, 1951, Serial No. 216,408
2 Claims. (Cl. 264—2)



2. A drive means for recording speedometers comprising in combination a speedometer having a rotatable shaft, drive means for said speedometer, a flexible cable axially connected to said drive means comprising a cylindrical bearing and a co-axial housing therefor, an end of said cable being connected co-axial with and directly to an end of said bearing, a drive wheel co-axial with and mounted on the other end of said bearing, said drive wheel having a diameter inversely proportional in size to the rated R. P. M. of said shaft at a designated speed indication over a measured distance, said shaft having 1040 rated R. P. M. at 10 M. P. H. and the diameter of said drive wheel being 3.23 inches.

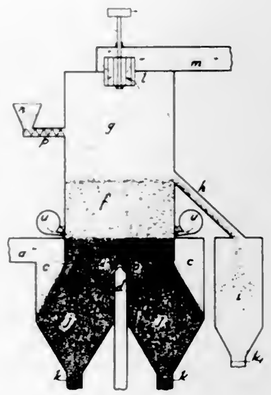
2,665,898
COFFEE WEIGHING DEVICE
Paul F. Campbell, Saginaw, Mich.
Application July 20, 1950, Serial No. 174,930
12 Claims. (Cl. 265—49)

1. A measuring device of the character described comprising, a supporting stand, a measuring cup including a stem and hollow handle tiltably mounted on said stand, said hollow handle having a scale calibrated thereon, a weight longitudinally adjustable in said handle, a second scale mounted on said handle and slidable longitudinally thereon with relation to said



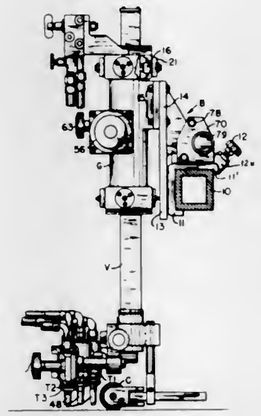
weight, and means on said stand for limiting the downward tilt of said measuring cup.

2,665,899
APPARATUS FOR THE ROASTING OF ORES OR THE LIKE
Adolphe Denis Henri Léon Fassotte, Neerpelt, Belgium, assignor to Compagnie des Metaux d'Overpelt-Lommel et de Corphalie S. A., Overpelt-lez-Neerpelt, Belgium
Application February 17, 1950, Serial No. 144,633
Claims priority, application Great Britain March 4, 1949
1 Claim. (Cl. 266—20)



An apparatus for the roasting of ore in a finely divided form held in suspension and partial suspension in a gas, having a reaction chamber for the ore, means for feeding ore into the reaction chamber, a lower chamber largely below and surrounding the lower part of the reaction chamber, larger than the reaction chamber and freely communicating with the reaction chamber, into which lower chamber nodules of ore can fall from the reaction chamber and accumulate, means for admitting into the reaction chamber air above the lower chamber substantially at the level of separation between the reaction chamber and the lower chamber, means for admitting air into the lower chamber and then into the reaction chamber, a central admission of air through the lower chamber, means for evacuating nodules of ore from the lower part of the lower chamber, means for evacuating coarse roasted ore from the reaction chamber at a level located between the feeding means for the ore and the upper part of the lower chamber, and means for evacuating fine roasted ore at the upper part of the reaction chamber.

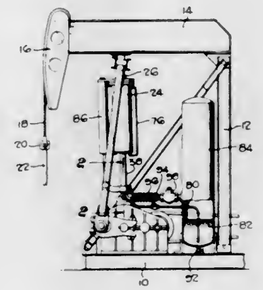
2,665,900
TORCH HOLDING ATTACHMENT FOR GAS CUTTING MACHINES
John H. W. Begerow, Wood-Ridge, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application December 15, 1949, Serial No. 133,067
11 Claims. (Cl. 266—23)



1. A torch holding attachment for gas cutting machines comprising a bracket adapted to be clamped to a part of the cutting machine, a guide box secured to said bracket and having an opening extending vertically through it, a vertical bar movable rectilinearly in and guided by said guide box, a horizontal guide bar carried by the lower end of the vertical bar, a plurality of torch holders each having a horizontal rod, a gas torch mounted in each holder and having a tip directed downwardly, slides mounted on the horizontal guide bar in which the torch holder rods are clamped so that each rod can be rotated about its longitudinal axis to vary the inclination of the corresponding torch and so that each rod is adjustable rectilinearly to adjust the corresponding torch forward or backward, said slides being relatively adjustable lengthwise of and on said horizontal guide bar to vary the lateral spacing between the torches, means for so adjusting the slides comprising manually operable threaded shafts carried by said horizontal guide bar each having threaded connection with one of said slides, means for adjusting each torch vertically in its torch holder, and a work contacting element adapted to ride on the surface of the work and operatively connected to the vertical bar to move it in the guide box in response to irregularities in the work surface to keep the torch tips spaced a constant distance from the surface of the work.

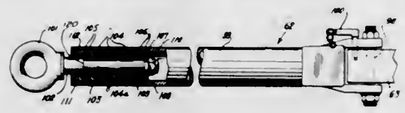
2,665,901
LUBRICATING SYSTEM FOR UNITS OPERATED BY COMPRESSED AIR
Edgar W. Patterson, Downey, Calif.
Application August 15, 1949, Serial No. 110,357
13 Claims. (Cl. 267—1)

1. In a unit operated by compressed air the combination of a cylinder, a piston reciprocally mounted in said cylinder, an oil reservoir in said piston spaced from the inner wall of said cylinder, an opening connecting said oil reservoir with the space above the top of said piston, there being a duct leading from said oil reservoir to the clearance space between said piston and the inner wall of said cylinder, a source of oil supply independent of said piston, an oil pump and supply lines from said source of supply through said



pump to the interior of said cylinder at a point above the top of said piston when it is in its highest position relative to said cylinder and a fluid drainage connection from said clearance space to said source of oil supply.

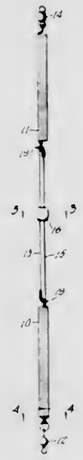
2,665,902
DRAUGHT BAR
Raymond W. Allen, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application June 20, 1946, Serial No. 678,106, now Patent No. 2,476,825, dated July 19, 1948, which is a division of application Serial No. 448,472, June 25, 1942, now Patent No. 2,415,024, dated January 28, 1947. Divided and this application December 14, 1948, Serial No. 65,101
2 Claims. (Cl. 267—69)



1. A rubber spring of the character described comprising a connector with a tubular bore in the outer end thereof, a lunette having a shaft with a cylindrical shank portion in journalled relation to the outer end of said connector and a reduced cylindrical portion concentrically disposed within the bore in spaced relation to the walls thereof, a series of collars of rubber-like material encircling said cylindrical portion in longitudinal slidable relation with said cylindrical portion and with the walls of said bore, said collars having radially inner and outer marginal portions engaging said cylindrical portion and connector, the radially inner and outer portions of the said collars being concave in cross section to permit rubber flow upon axial compression of the collars, a shoulder on said shaft adjacent said lunette, a rigid washer slidably mounted on said shaft intermediate said collars and said shoulder, said washer abutting said shoulder when said shank moves inwardly of the bore, a stop member disposed at the end of said bore away from said lunette, a rigid washer slidably mounted on said shaft intermediate said stop member and said collars, said last-men-

tioned washer abutting said stop member when said shank moves inwardly of said bore, whereby relative movement between the concentrically disposed portion of said shank and housing causes said collars to be axially compressed and the rubber to be progressively distorted into the concave portions thereof to be radially expanded into frictional contact with the surface of said bore and shank.

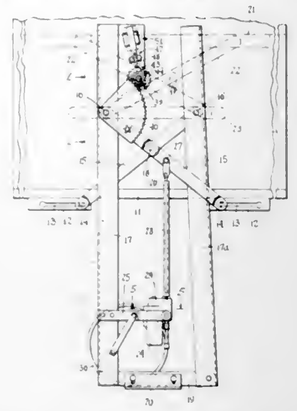
2,665,903
DEVICE FOR COMBINING THE SHOCK-ABSORBING AND LIMITING ACTION IN COUPLINGS
Carl D. Green, Brush Prairie, Wash.
Application August 28, 1951, Serial No. 244,053
3 Claims. (Cl. 267—73)



1. A pair of helical springs arranged in tandem and coupled in parallel, the adjacent ends of the two springs each having a link attached thereto and extending through the opposite spring to the end fastening thereof and a runner encircling both links through which they may slidably pass.

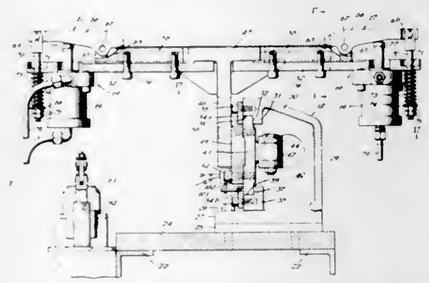
2,665,904
AUTOMATIC-MANUAL WINDOW OPERATOR
Herbert G. Lehmann, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application December 29, 1950, Serial No. 203,399
14 Claims. (Cl. 268—124)

2. The combination of a windowpane; means for mounting the windowpane on a support for movement between open and closed positions; means connected with said mounting means and windowpane and including a power unit, for actuating the windowpane, said means further including a friction drive which slips when overloaded, said drive enabling the windowpane to be moved while the power unit is at a standstill; a manually-operable member turnable with respect to said mounting means; and means for actuating the windowpane solely in response to turning movement of said member, said means being normally inoperative when turning force is removed from the manually-operable member



and enabling the windowpane to be actuated by said power means without causing movement of said member.

2,665,905
CONTINUOUS WEB FEEDING MECHANISM
George Albert Lyon, Detroit, Mich.
Application June 21, 1949, Serial No. 100,365
9 Claims. (Cl. 271—2.5)

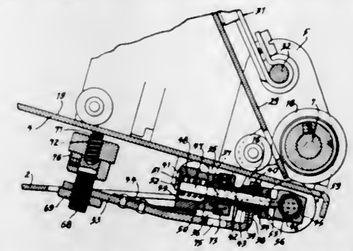


1. A feed mechanism for sheet stock comprising a support structure, a housing mounted longitudinally on said support structure having a pair of spaced guide grooves, a slide disposed in said guide grooves for movement relative to said housing, power means for reciprocation of said slide in said grooves, a table secured to said slide having a flat top portion for supporting the sheet stock, said top portion having laterally extending slots at the side margins thereof, removable inserts disposed in said slots, means for clamping the sheet material against said inserts, and power means for applying said clamping means.

2,665,906
AUTOMATIC SHEET FEEDING MECHANISM
Elmer L. Johnson, Chicago, Ill., assignor to Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application April 25, 1951, Serial No. 222,866
14 Claims. (Cl. 271—36)

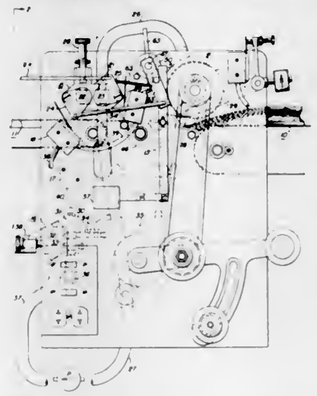
1. In an automatic sheet feeding mechanism, the combination of a rotatable driven friction feed roll means, a constantly rotatable friction retard roll means disposed similarly to and in opposing relation with said feed roll means for the sequential feeding of sheets therebetween, a first support member mounted for movement

corresponding with movement of said retard roll means toward and away from said feed roll means, a second support member carrying said retard roll means for rotation and pivotally mounted on said first support member on an axis transverse to the common axial plane of said feed and retard roll means and intermediate the



limits of contact of said retard roll means axially thereof with sheets fed between said feed and retard roll means, resilient means for yieldably urging said first support member in the direction to urge said retard roll means toward said feed roll means, and yieldable friction brake means for retarding rotation of said retard roll means.

2,665,907
AIR CONTROL MECHANISM FOR PNEUMATIC SHEET SEPARATORS
Thomas A. Ribich, Cleveland, Ohio, assignor, by mesne assignments, to Weldon Tool Company
Application September 6, 1950, Serial No. 183,401
3 Claims. (Cl. 271—57)



1. A paper-feeding machine having control mechanism to provide both automatic and manual means to stop the feeding operation of the machine without stopping the mechanical movement thereof comprising, bulk delivery means to hold a stack of paper, a rotatable suction wheel mounted with the periphery of the wheel a distance above the said stack of paper and out of contact therewith, an air nozzle directed toward the edge of the stack of paper, whereby an air blast delivered therethrough will lift paper from a stack and push it upwardly against said suction wheel, air pump means providing a flow of air to said air nozzle, first by pass valve means between said air pump means and said nozzle, said by-pass valve means having a first position directing air from said pump means to said nozzle and a second position directing air from said pump means to atmosphere to thereby inactivate said air nozzle, vacuum pump means drawing a low pressure upon said vacuum wheel, second by-pass valve means between said vacuum pump means and said vacuum wheel, said second by-pass valve having a first and second port openable to atmosphere for breaking the vacuum on the vacuum wheel, automatic detector means for determining the presence of more than one sheet of paper advanced together by the suction wheel, control means responsive to said detector means operating to open said first port of the second by-pass valve upon detection of excess feed to thereby break the vacuum on the vacuum wheel and prevent further feed, manual control means for the second port of the second by-pass valve to stop the feed at any desired time, lost motion means responsive to operation of both the control means and the manual control means, said lost motion means operating said first by-pass valve from said first position to said second position after a time lapse from the break of the vacuum, said lost motion means providing operation of said first by-pass valve from said second position to said first position without closing of said ports of the second by-pass valve means.

2,665,908
TABLE TENNIS BAT
Howard E. Gray, Toronto, Ontario, Canada
Application March 21, 1952, Serial No. 277,849
6 Claims. (Cl. 273—76)

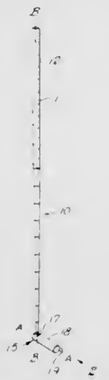


1. A game playing device for sliding movement on a game playing surface comprising a flat sheet having top, bottom and side edges, a rear face and a flat, forward, ball-engageable face, and a handle for manual reception rigidly fixed to said rear face, said handle having top and bottom faces and side hand-engaging surfaces each extending continuously between said top and bottom faces, said handle having an overall width which is but a minor portion of the overall width of said sheet and being located midway between said side edges of the sheet, said handle having an overall height which is but a minor portion of the overall height of said sheet, said bottom face of the handle being flat in transverse contour and having a surface portion adjacent said bottom edge of the sheet and lying in a plane unobstructed by said sheet for free sliding engagement with said game playing surface, said forward face of the sheet lying at an angle to said plane not greater than 90°.

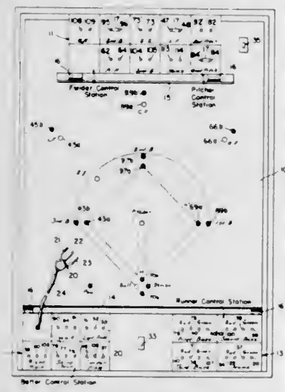
2,665,909
GOLF PUTTER
Page Leroy Wilson, Los Angeles, Calif.
Application February 27, 1951, Serial No. 212,960
1 Claim. (Cl. 273—80)

A golf putter for advancing a golf ball of a diameter of about 1.68 inches along a green in a straight line without side spin and with a forward roll imparted by prolonged contact with the putter during engagement between the ball and the green comprising: a relatively long metal handle having a longitudinal axis and a lower end; and a relatively short hollow metal head having a straight longitudinal axis, said head being secured to said lower end of said handle at a point spaced only slightly inwardly of said head

from one end of said head to leave a small portion of the head extending to one side of the lower end of the handle with a major portion of the head extending to the other side of such lower end of the handle, the longitudinal axis of said head being at an obtuse angle relative to the longitudinal axis of said handle and substantially intersecting same, said head having a smooth cylindrical surface free of surface irregularities and obstructions, said cylindrical surface comprising a ball-contacting surface and said cylindrical surface being concentric with said longitudinal axis of said head and of a radius between .5 inch and .75 inch whereby the line of centers joining the center of the golf ball and said longitudinal axis of said head will be substantially horizontal when said putter is swung with conventional clearance between the head and the green and whereby said line of centers will pass through the point of contact between said cylindrical surface and said ball at all times during the swing of the putter and while the ball is in contact therewith.

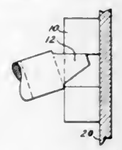


2,665,910
SIMULATED BASEBALL GAME
Harry P. Hutchins, Audubon, N. J.
Application November 13, 1950, Serial No. 195,235
11 Claims. (Cl. 273—88)



1. In a baseball game having the representation of a diamond field on a game board, the combination of individual signaling means suitably designated and located on said game board to represent at least right field, center field, and left field, means including a plurality of circuit-controlling electrical contacts at a fielder-control station respectively designated to represent said field positions through which electrical circuits may be selectively and partially completed by a fielder-player, means including a plurality of circuit-controlling electrical contacts disposed at a batter-control station designated to represent said field positions and through which electrical circuits may be selectively and partially completed by a batter-player, said electrical circuits extending directly between said contacts and said signaling means and when completed selectively controlling the energization of said signaling means, the partial completion of a circuit by each player through contacts of like field designations completing a circuit to one of said signaling means to indicate said batter-player has flied out, and the partial completion by each player of a circuit through said contacts corresponding respectively to different field positions completing an electrical circuit for energization of a different one of said signaling means to indicate a hit to the field position selected by the batter-player.

2,665,911
MAGNETIC DART
Sidney X. Shore, New York, N. Y.
Application June 5, 1947, Serial No. 752,712
14 Claims. (Cl. 273—95)



1. A dart having a magnet, a face of which constitutes the front end of the dart, and a rearwardly extending vane structure disposed wholly to the rear of said face and having a sliding lost-motion connection to said magnet and said magnet being of sufficient magnetic strength to support the entire dart when extending horizontally from a ferromagnetic target.

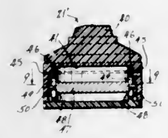
2,665,912
MAGNETIC GAME BOARD WITH MAGNETIZED SPHERICAL GAME PIECES
Mary P. Juran, Youngstown, Ohio
Application April 17, 1951, Serial No. 221,380
2 Claims. (Cl. 273—118)



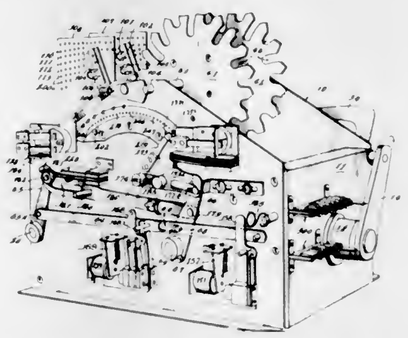
1. A game board and playing pieces therefor, the game board comprising a playing surface having scoring zones thereon and pieces of magnetic material in the scoring zones, the playing pieces comprising hollow spheres of non-magnetic material having smaller spheres of non-magnetic material therein, said smaller spheres having portions of magnetized material exposed on their surfaces.

2,665,913
MAGNETIC PLAYING PIECES
Ludvik Hlavac, Astoria, N. Y.
Application October 17, 1951, Serial No. 251,691
3 Claims. (Cl. 273—137)

1. A game piece for use with a game board having an embedded metallic member having magnetic properties comprising a body member of a non-magnetic material, said body member having a cavity extended in from its bottom face, and a bar magnet within said cavity to be attracted by the metallic member of the board and hold said body member in desired shifted positions on the board, a cup-shaped member extended into said cavity closing the open bottom thereof, said bar magnet being within said cup-shaped member, means rotatively retaining said cup-shaped member in position in said cavity, said cup-shaped member having aligned vertical slots in opposed walls thereof, pegs projected from said magnet through said slots restricting said magnet to vertical movement within said cup-shaped member, and threads formed on the walls of said body member defining said cavity and engaged by said pegs for causing said bar magnet to be moved vertically up and down as said cup-shaped member is rotated in one direction or the other relative to said body member.

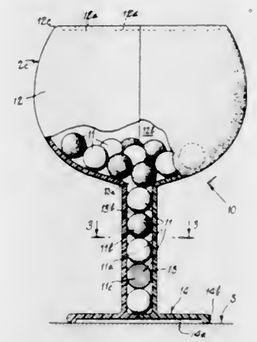


2,665,914
PERMUTATION AND COMBINATION CONTROL CIRCUIT
Frank G. Nicolaus, Chicago, Ill., assignor to Raymond T. Moloney, Chicago, Ill.
Application January 5, 1948, Serial No. 600
23 Claims. (Cl. 273—138)



1. A control circuit for a device of the class described including selectors movable various distances over selector contacts from a starting position and mechanism for moving said selectors, said circuit comprising: a series of totalizing contacts; connections between said selector contacts established through said selectors to predetermined totalizing contacts aforesaid which are dependent in total number upon the distances said selectors are moved and the predetermined arrangement of said selector contact connections aforesaid, and an impulse circuit completed through said totalizing contacts and selector contacts, together with a totalizer contactor and mechanism for moving same over said totalizing contacts and coacting with said first-mentioned mechanism for moving said selectors, to detect the number of impulses set up in said impulse circuit for each operation of said selectors.

2,665,915
GAMING DEVICE
William Steig, New York, N. Y.
Application March 15, 1951, Serial No. 215,721
2 Claims. (Cl. 273—144)



1. A portable hand inverting score making and indicating game device comprising a structure having a hollow bulbous portion being formed with a flat base to terminate one end thereof, an elongated transparent hand grip tubular neck portion of at least a length to receive the palm of the hand of a user extending from said flask portion formed to terminate at an end diametrically opposite to said base with a flat foot extending in spaced parallel alignment with respect to said base, said foot and base serving to selectively support said structure in relatively upright positions on substantially horizontal surfaces, and a plurality of scoring elements enclosed in said hollow structure movable from an accumulated group in said bulbous portion into said tubular neck portion for visibly indicating a score on inverting the device from a supporting position on the base to that on said foot, at least said bulbous portion being made opaque to conceal said accumulated group of balls therein, the bore of said tubular neck portion being sized with respect to said scoring elements to accommodate at least five of the latter for viewing therethrough and concealment by said palm of the user.

2,665,916
CARD HOLDER
Robert J. Lakatos, Detroit, Mich.
Application April 4, 1951, Serial No. 219,289
3 Claims. (Cl. 273—150)

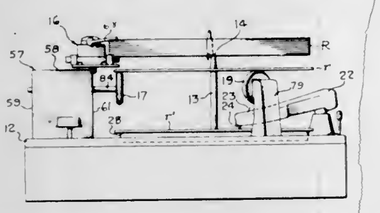
2. A card holder comprising a support member of substantially J-shaped cross-sectional configuration formed from a pair of connected front and rear support plates, each support plate being of substantially J-shaped cross sectional configuration and arranged in opposed relationship to the other plate with the bent ends of the plates engaged, resilient means connected between said support plates urging them together, said front support plate having the upper edge thereof spaced forwardly of and beneath the upper edge of the rear support plate, said rear support plate having a plurality of forwardly extending shelf portions along its lower end portion adapted to support the lower edges of the cards mounted on the holder, said front support plate having the upper portion thereof reversely bent upon itself to provide an integral, upwardly opening, U-shaped joint, and a card retaining assembly hav-

ing a base portion clampingly mounted in the U-shaped joint of the front support plate said base portion having a plurality of spaced, re-



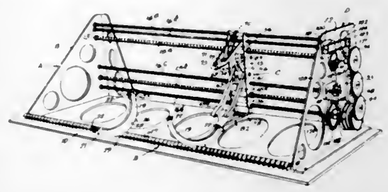
silient, finger elements projecting upwardly from said base portion towards the front side of said rear support plate.

2,665,917
PHONOGRAPH RECORD CHANGER
Elmer L. Hoffmann, Park Ridge, and Richard A. Nelson, Chicago, Ill., assignors to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application February 13, 1946, Serial No. 647,342
9 Claims. (Cl. 274—10)



1. An automatic record player comprising mechanism to support a record in first and second playing stations and record dispensing means for supplying records to either of the stations in addition to a single pickup means for alternately engaging a record in either of the stations, means connected to said pickup means to move it to engage the beginning of the sound groove of records of more than one size in either of said stations, the first of said stations including a plurality of removable rotary supports for supporting a record in one of said stations, radially extending guides for said supports, said supports being connected to the guides and limited by the guides in their course of movement by the guides, motive means to drive one of said supports, a rotary crank member, movable links to connect the supports to the crank member, spring means to rotate the crank member and extend the supports to record-sustaining position, cam means connected to the crank member to rotate the crank member against the force of said spring and remove the supports from record-sustaining position to effect the transfer of a record from the first to the second station and latch means adapted to retain the supports in inoperative position.

2,665,918
RECORD STORAGE AND PLAYER APPARATUS
William Jameson, Chicago, Ill.
Application July 26, 1946, Serial No. 686,351
6 Claims. (Cl. 274—10)



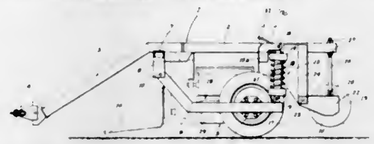
1. In record storage and player apparatus, a frame, a threaded shaft rotatably mounted therein, means for rotating said shaft, a plurality of cradles each adapted to receive a disk thereon, said disks having record grooves and each having a resilient tire about its periphery, a carriage mounted upon said threaded shaft, a drive wheel mounted upon said carriage, means for rotating said drive wheel, said drive wheel being adapted to receive the tire of a selected disk for rotating the same when the disk is tilted forwardly, means for selectively tilting a cradle and the disk carried thereby forwardly to bring the tire rim thereof into engagement with said drive wheel, and a stylus carried by said carriage and adapted to be brought into engagement with a groove in said disk.

2,665,919
PICKUP ARM FOR PHONOGRAPHS
Donald J. Baker, Los Angeles, Calif.
Application January 9, 1948, Serial No. 1,399
5 Claims. (Cl. 274—23)



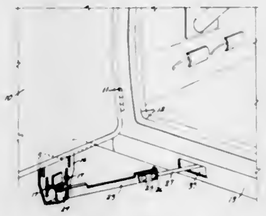
1. In a pickup arm for phonographs, the combination of a tubular arm supporting a pickup at one end and rigidly secured to a hollow casing at the other end, a pivot pin mounted for turning on a vertical axis, means mounting said casing on said pivot pin for swinging movement about said vertical axis and for pivotal movement about a horizontal axis, an arm rigidly secured to said pivot pin within said casing and extending rearwardly from said pin, a coiled spring located within said tubular arm between said casing and said pickup and having its forward end secured to said tubular arm, an idler pulley journalled in said casing, and a flexible connection extending from the rear end of said spring and passing over said pulley and being connected to said rearwardly extending arm for maintaining said spring under tension, said connection passing into said casing above said horizontal axis whereby the pull of said spring counterbalances part of the weight of said pickup arm.

2,665,920
VERTICALLY ADJUSTABLE FRAME FOR IMPLEMENT SUPPORTING CARTS
John A. White, Jr., Gilroy, Calif., assignor to Be-Ge Manufacturing Co., Gilroy, Calif., a corporation of California
Application October 10, 1949, Serial No. 120,445
2 Claims. (Cl. 280—44)



1. In an implement supporting cart having a frame, and wheels on opposite sides of the frame; mounting means for each wheel comprising a longitudinal draft beam on which the wheel is journaled, a pivotal connection between one end of the beam and the frame, vertically spaced and alined spring seats on the other end of the beam and the frame above, a normally loaded helical compression spring extending between and engaging said seats, a hydraulic cylinder inside the spring connected to one seat and extending toward the other seat, a plunger slidably projecting into the cylinder from and connected to said other seat, the cylinder and plunger constituting a normally inactive ram and a fluid feed conduit connected to the cylinder beyond the plunger so that the ram may be extended sufficiently to unload the spring; the spring seats being in the form of relatively deep cups so that the ends of the spring will remain confined therein when the ram is extended and the spring is unloaded.

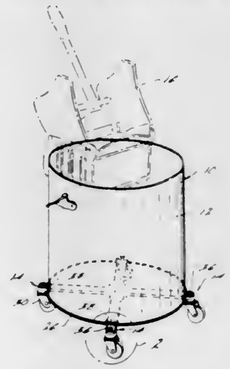
2,665,921
SHOE SCRAPER FOR AUTOMOTIVE VEHICLES
Charles H. Schetzer, Goodland, Kans.
Application October 24, 1952, Serial No. 316,628
7 Claims. (Cl. 280—164)



1. A boot and shoe scraper for an automotive vehicle comprising: a bracket member adapted to be secured to the bottom of a door of said vehicle; a supporting member adapted to be secured beneath the floor of said vehicle; and a scraper element hinged to said bracket member and slidably supported in said supporting member.

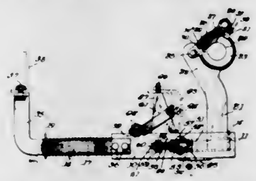
2,665,922
CLIP FOR ATTACHING PAILS TO SUPPORTING CHASSIS
Elmer H. Bard, Muskegon, Mich., assignor to Geerpres Wringer, Inc., Muskegon, Mich., a corporation of Michigan
Application June 18, 1949, Serial No. 99,940
1 Claim. (Cl. 280—179)

In combination, a caster mounted tank having a downwardly extending supporting flange defining, adjacent its lower limit, an externally disposed upwardly facing shoulder, a spider supporting said tank at a plurality of spaced points about said supporting flange and having a plurality of vertically extending apertures therethrough individual to and disposed outwardly of said points, a plurality of casters individual to said apertures supporting said spider and having stud portions extending upwardly through said apertures and receiving nuts on their upper ends, and a plurality of clips attaching said tank to said spider, each of said clips comprising a plate overlying a portion of the upper surface of said



spider and having a circular aperture receiving said stud portion therethrough, said plate having a pair of spaced legs at one end engaging said upper surface of said spider and an offset finger portion at the other end engaging said shoulder on said supporting flange of said tank so that upon tightening of said nut on said stud portion said tank will be firmly held against said spider, said stud portions of said casters and said nuts cooperating to mount said spider on said casters and to secure said clips in place to mount said tank on said spider.

2,665,923
RETRACTABLE TRAILER HITCH
Paul L. Perry, Philadelphia, Pa.
Application January 30, 1951, Serial No. 208,483
5 Claims. (Cl. 280—491)



4. A trailer hitch comprising a draw head having a longitudinal bore therein, means whereby the said draw head is connected to an automobile, a draw bar comprising a shaft portion and a bar portion extending at right angles to said shaft portion having a hitching head formed thereon, the shaft portion being longitudinally and rotatably movable in the bore in the draw head and having an end portion projecting forwardly from the said draw head and having spaced transverse openings therein, the draw head having a longitudinally extending slot therein for a portion of its length to receive the bar portion of the draw bar when in retracted position, the said draw head also having a recess therein in communication with the slot at one of its ends within which recess the bar portion

of the draw bar is rotatably mounted, a locking bolt extending transversely of the said draw head and adapted to selectively pass through one of the openings in the shaft portion of the draw bar whereby the draw bar is locked in operative or inoperative retracted position, and a spring on the projecting end of the shaft portion of the draw bar whereby the draw bar is drawn into retracted position.

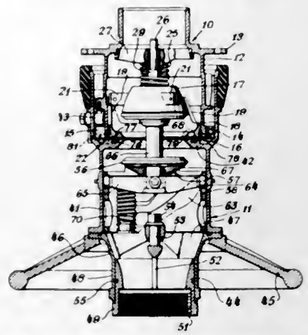
2,665,924
BOOKKEEPING DEVICE
Arthur J. Bickel, Chicago, Ill., assignor, by mesne assignments, to Speedograph, Inc., Chicago, Ill., a corporation of Illinois
Application June 16, 1951, Serial No. 231,957
7 Claims. (Cl. 282—29)



1. A bookkeeping device for holding a plurality of accounting forms in superimposed relation, comprising: means defining a form-receiving plane surface, a plurality of fingers extending over one side of said surface and pivoted about a common axis, alternate ones of said fingers being pivoted to clamp one of said forms to said surface and to provide an edge-guide for another of said forms, and the remaining of said fingers being pivotal to clamp said another and said one of said forms to said surface in superimposed relation, and a transversely movable member having means thereon cammingly engageable with said fingers to pivot the same into form-clamping positions.

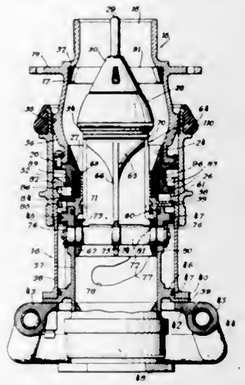
2,665,925
COUPLING DEVICE FOR PIPES OR CONDUITS
John Fraser, Surbiton, England, assignor to Avery-Hardoll Limited, Surbiton, England
Application July 28, 1950, Serial No. 176,498
Claims priority, application Great Britain August 2, 1949
8 Claims. (Cl. 284—18)

1. A coupling device comprising two tubular coupling members having mutually engaged mating ends, mutually co-operative lock means on said members interengaged by relative rotation of said coupling members to hold said ends in mating relation, a valve seat in the mating end of one coupling member, a valve axially movable in said one coupling member and biased to engage the said valve seat, guide means in said one coupling member holding said valve against rotary movement therein, an axially movable element in the other coupling member, co-operating axial thrust transmitting surfaces on said valve and axially movable element, means detachably coupling said valve and axially movable element against rotation relative to each other, cam means mounted in said other coupling member, means to hold said cam means against rotation



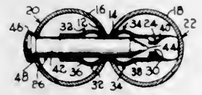
relative to said other coupling member, and follower means carried by said axially movable element, said follower means being moved axially by said cam means during relative rotation of the two coupling members to effect axial movement of the axially movable element to open the valve.

2,665,926
COUPLING DEVICE FOR PIPES OR CONDUITS
John Fraser, Tolworth, England, assignor to Avery-Hardoll Limited, Tolworth, England
Application March 6, 1951, Serial No. 214,100
7 Claims. (Cl. 284—18)



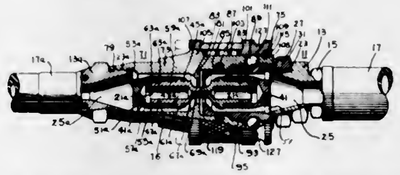
1. A coupling device comprising first and second tubular coupling members having mutually engaged mating ends, mutually co-operative lock means on said members interengaged by relative rotation of said coupling members to hold said ends in mating relation, a valve seat in the mating end of the first coupling member, a valve axially movable in said first coupling member, spring means biassing said valve to engage the said ends in mating relation, a valve seat in the of the second coupling member, a valve axially movable and rotatable in said second coupling member, a ring mounted for rotation in said second coupling member, first interengaging means coupling said ring and the valve in the second coupling member against rotation relative to each other, second interengaging means detachably coupling said ring and said first coupling member against rotation relative to each other, cam and follower mechanism comprising a cam element and a follower element one of which elements is fixed in the second coupling member and the other of which is carried by the valve in said second coupling member, and co-operating axial thrust transmitting surfaces on said two valves, whereby relative rotation of the first and second coupling members causes rotation of the second coupling member relative to the valve in that coupling member to produce relative rotation of the cam and follower elements, and thereby move the valve in the second coupling member axially, the axial movement of the said last mentioned valve being transmitted through the thrust transmitting surfaces to the valve in the first coupling member.

2,665,927
JOINT FOR COLATERAL SUPERIMPOSED TUBULAR MEMBERS
Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 20, 1950, Serial No. 169,239
1 Claim. (Cl. 285—21)



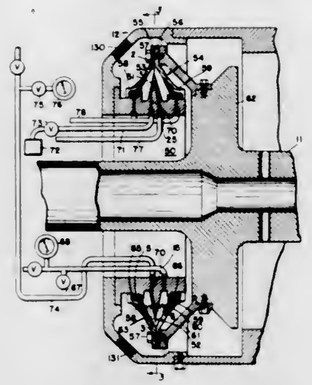
A tubing assembly, comprising a pair of colateral superimposed tubular members, said tubular members having adjacent aligned openings in adjacent wall portions, one of said tubular members having an outer opening in the wall portion directly opposite the aligned openings, and a fastener assembly retaining the tubes in superimposed relation, said fastener assembly comprising an elongated longitudinally split cylinder formed of resilient sheet metal disposed in the aligned openings, said cylinder having spaced outwardly projecting shoulder portions disposed thereon on opposite sides of the adjacent wall portions which bear against the edges of the aligned openings in said wall portions, one end of said cylinder terminating in spaced relation to the outer opening in said one tube, the other end of said cylinder bearing against the wall of the other tube opposite the aligned openings, and an internal support pin disposed inside the cylinder and extending through the aligned openings, said pin having a head disposed outside the outer opening in said one tube.

2,665,928
COUPLING
Gene L. Omon and Kurt E. Hohnl, Racine, Wis., assignors to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application October 27, 1948, Serial No. 56,824
1 Claim. (Cl. 285—168)



In a valved coupling of the class described, a male connecting member which includes a generally tubular housing having an annular groove formed in the outer surface thereof, and a female connecting member having a generally tubular housing into the forward end of which the housing of said male connecting member is inserted, the housing of said female connecting member having a plurality of radially disposed, circumferentially arranged apertures at the forward end thereof, ball members disposed in said apertures for movement from an inner, coupling-locking position to an outer, coupling-releasing position, said ball members being in engagement with the walls of the groove in the outer surface of said male housing, and means limiting inward movement of said balls beyond the coupling-locking position comprising a band of spring material disposed within the housing of said female connecting member adjacent said circumferentially arranged ball members, said band having a plurality of holes formed therein each having a diameter which is slightly smaller than the diameter of said ball members, means defining a seat for said band on the inner surface of the housing of the female connecting member to prevent longitudinal movement of said band relative to said associated housing, and means for moving said ball members into and out of the holes in said band whereby said ball members are moved from the coupling-releasing position to the coupling-locking position.

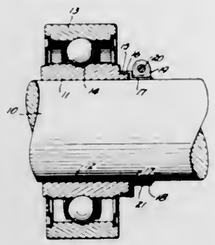
2,665,929
SHAFT SEALING DEVICE
John W. Sawyer, Arlington, Va.
Application September 10, 1948, Serial No. 48,549
6 Claims. (Cl. 286—9)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a shaft sealing device, a casing, a rotatable shaft within said casing, and sealing means between the shaft and casing for preventing ingress of fluid into said casing, said means comprising a rotatable member secured to said shaft for rotation therewith, said member having the shape of a channeled annulus with inwardly directed and diverging side walls, a charge of unconfined liquid mercury in said rotatable member for forming a liquid sealing ring when said member is rotated, said liquid mercury being in an amount sufficient to only partially fill the bottom portion of said rotatable member during periods of non-rotation of said shaft, a stationary member secured to said casing including an annular flange section positioned concentrically in the plane of said rotatable member with the edge thereof protruding within the cavity formed by the diverging walls of the rotatable member and into the liquid sealing ring formed on rota-

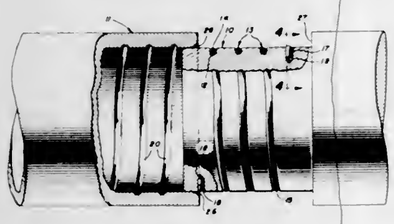
tion of said member, said stationary member including also a valve seat on at least one side of said flange section and displaced therefrom, an elastic valve, means securing said elastic valve to said rotatable member in such a position that the major portion of said valve is permanently out of contact with said mercury, whereby said valve contacts said valve seat during periods of non-rotation of said shaft and moves from said valve seat only during periods of shaft rotation.

2,665,930
ECCENTRIC RING LOCKING MEANS
Charles F. Stanley, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut
Application June 21, 1950, Serial No. 169,396
4 Claims. (Cl. 287—52.06)



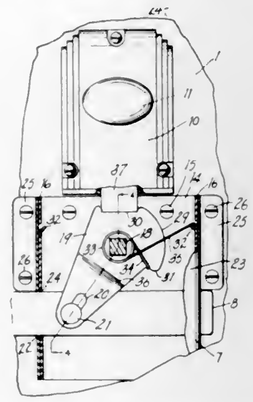
1. As an article of manufacture, locking means for securing an inner bearing ring or the like to a shaft, said inner bearing ring having a bore and a continuous single circumferentially extending eccentric locking surface at one end, said article comprising a sheet metal collar having a cylindrical hub portion to engage the shaft and having an annularly cupped continuous single circumferentially extending eccentric portion to engage said eccentric surface, said collar being longitudinally split, and circumferentially extending band clamping means about said hub portion and including means spanning the split ends for drawing the split ends together, said band clamping means including radially outwardly extending ears and screw means connecting said ears.

2,665,931
QUICK ACTING CONNECTOR
Conrad R. Vegren, Washington, D. C.
Application January 23, 1952, Serial No. 267,900
5 Claims. (Cl. 287—119)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a connector assembly, a male member having an external groove, a female member having an internal groove, a resilient spring mounted in the groove of one of the members, the groove receiving the spring being of a depth substantially equal to the thickness of spring material and the groove in the opposite member being of a depth materially less than the thickness of the spring material, interengaging means on the spring and said one member for retaining the spring in a tensioned condition in the groove of said one member, and means to release said interengaging means upon assembly of the members whereby to permit the spring to expand into the grooove in the opposite member to lock said members together.

2,665,932
LOCKABLE LATCH STRUCTURE FOR VERTICALLY SLIDABLE DOORS
Charles C. Moler, Hartford City, Ind., assignor to Overhead Door Corporation, Hartford City, Ind.
Application November 3, 1950, Serial No. 193,960
3 Claims. (Cl. 292—177)



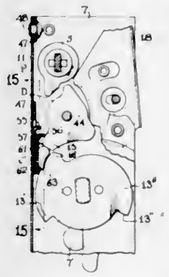
3. Lockable latch structure comprising, a base of channel shaped cross section adapted to be secured to the inner face of a door and along one side thereof with the flanges of the channel extending vertically, a rotatable door handle shaft extending through said base, said base having an anchor surface disposed in radial relationship with said shaft, a latch bar transversely slidably mounted in the flanges of said base and below said shaft and adapted to project laterally from said door into engagement with a keeper, the flanges of said base having notches formed therein receiving said bar, a latch operating arm having a non-circular hole therein non-rotatably receiving said shaft, means drivingly connecting said latch bar to said arm for reciprocation thereby, a coil spring sleeved around said shaft, one end of said spring being engaged with a portion of said arm disposed radially of said shaft, the other end of said spring being extended and lockingly engaged with said anchor surface on said base whereby rotation of said shaft and movement of said arm and latch bar to door latching position will tension said spring, a cover adapted to be removably secured over said base and having a hole passing said shaft and coacting with said base to retain said latch bar in operative position, and a door handle removably secured to said shaft, the periphery of said arm having an arcuate bolt blocking surface with a lock bolt receiving notch therein registering with the open end of said base in the door latching position of said arm and latch bar.

2,665,933
DOOR LATCHING MECHANISM
Roy W. Hardwick, Freehold, N. J., assignor of fifty per cent to Frank W. Hardwick, Newark, N. J.
Application October 2, 1950, Serial No. 187,996
2 Claims. (Cl. 292—181)



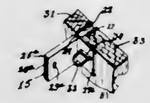
1. A door locking mechanism comprising an elongated tube having closed upper and lower ends, a locking plunger slidably disposed within said tube, a spring seated in the upper end of said tube and urging the plunger downwardly, a spring urged catch in the lower end of said tube engaging the lower end of said plunger and preventing downward movement of the plunger, said tube and plunger having aligned apertures therein, said plunger aperture being smaller than said tube aperture, a door latch moveable into said apertures having a cam shaped upper surface and a depending end lug, seating against the inner surface of said plunger, means for automatically releasing said catch, said plunger engaging said latch cam surface upon release of the catch and forcing the same outwardly from the aligned apertures.

2,665,934
DOOR CONTROL MECHANISM
Edwin L. Allen, Cleveland Heights, and Rudolph I. Schonitzer, Shaker Heights, Ohio, assignors, by mesne assignments, to said Schonitzer
Application July 10, 1947, Serial No. 760,074
12 Claims. (Cl. 292—216)



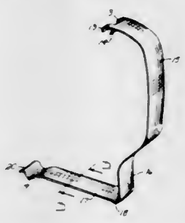
7. In a door control mechanism, a movable latch unit, a movable detent having a portion thereon for engaging said latch unit, said latch unit having an operative or door latched position and an operated or door unlatched position and being movable therebetween in latching and unlatching directions, said detent having a latch holding position in which it maintains said latch unit in said operative or door latched position and being movable therefrom to a latch released position permitting movement of said latch unit in unlatching direction, a movable support member, a latch blocking dog movably mounted on said support member, said movable support having one position in which said dog is maintained out of the paths of movement of said detent and said latch unit and another position in which said dog is positioned to engage both said detent and said latch unit during movement of said detent toward latch released position, and means for selectively positioning said support member in either of said positions.

2,665,935
DOOR FASTENER
William Patterson, Merion, Pa.
Application October 7, 1948, Serial No. 53,343
1 Claim. (Cl. 292—292)



In a device of the kind described, a holding arm secured to the inner edge of one of a pair of coacting doors and projecting beyond a face of the door to which said arm is secured, a hasp secured to a face of the other door on the same side as the projecting end of the holding arm, a sleeve slidable over the projecting end of said holding arm, and an integral wing plate extending laterally from the inner end of the sleeve and provided with an aperture to permit said wing plate to pass over the hasp after which a padlock may be applied to said hasp for locking the two doors together.

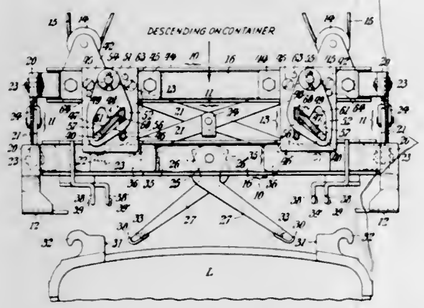
2,665,936
BEER CAN HANDLE
Walter G. Moore, West Palm Beach, Fla.
Application July 11, 1949, Serial No. 103,988
1 Claim. (Cl. 294—33)



A handle for cans of the type having upper and lower heads bordered by marginal beads; said handle being formed as a unit from a single strip of resilient material and comprising an outwardly formed hand grip having upper and lower arms and a shank extending downwardly from the lower arm, tongues at the front end of the upper arm constituting side hooks and an intermediate hook, the side hooks extending forwardly and downwardly in position for extending across the bead of the upper can head and downwardly to said head so as to grip the inner surface of said bead and the intermediate hook extending downwardly and forwardly to a position beneath and

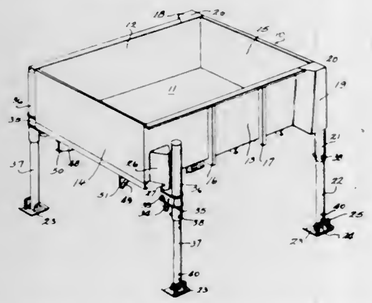
to the rear of said side hooks to grip the outer surface and lower edge of the said bead, a foot extending forwardly from the lower end of said shank and formed with depressed transversely extending portions at first and rear ends for receiving diametrically opposed portions of the bead of the lower can head, and a lip projecting forwardly from the bead-receiving portion at the front end of the foot.

2,665,937
GRAPPLE
Clarence J. Reigh, Altoona, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 2, 1951, Serial No. 203,883
18 Claims. (Cl. 294—67)



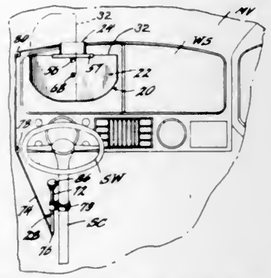
1. A grapple comprising a pair of frame members moveable relative to one another, lazy tongs connecting said frame members together, load engaging means on one of said frame members, cam means mounted on one of said frame members, a cam follower connected to said load engaging means and actuated by said cam means in response to relative frame movement for effecting engagement and release of the load, and a selective element in the form of a switch pivotally mounted on one of said frame members, said switch being actuated by the movement of the cam follower to alternately activate and inactivate said cam means.

2,665,938
DEMOUNTABLE TRUCK BODY
William G. McCrossen, West Allis, Wis.
Application July 24, 1950, Serial No. 175,519
2 Claims. (Cl. 296—28)



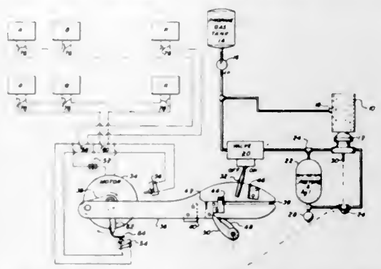
1. In a box truck body, an exterior laterally projecting bracket, a tubular element extending vertically downwardly therefrom, a cylindrical bearing adjacent the lower end of said tubular portion, a sleeve element embracing said bearing, an arm rigidly connecting said sleeve with an inverted tubular socket, a tubular standard movable freely within said socket, the said socket and standard each having horizontally aligned apertures, and pin means for relatively fixing the standard in selected positions in said socket.

2,665,939
ADJUSTABLE ANTIGLARE SHIELD
Oscar M. Lurie, Bethesda, Md., assignor to Charles P. Liff, Chevy Chase, Md.
Application November 17, 1950, Serial No. 196,237
11 Claims. (Cl. 296—97)



1. In combination with a motor vehicle having a windshield and a roof the general planes of which intersect at an obtuse angle: a light transmitting glare shield extendible over a large portion of the inside of the windshield; and a single pivot axis means fixedly disposed at a point adjacent the top of the windshield and secured to an edge portion of the glare shield to rotatably mount the glare shield at the inside of the windshield, the axis of rotation of said pivot axis means extending substantially parallel to the bisector of said obtuse angle to accommodate rotation of the glare shield between operative position over the windshield to inoperative position in which it extends in spaced relation over the inside of the roof.

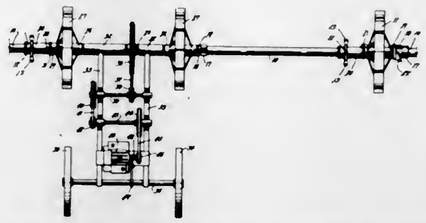
2,665,940
ROBOT CLOUD SEEDING GENERATOR
Paul B. MacCready, Jr., Pasadena, Calif.
Application October 8, 1951, Serial No. 250,336
18 Claims. (Cl. 299—28)



1. In a generator for producing cloud seeding nuclei wherein the nuclei are produced by the application of energy to a chemical, the combination comprising means for controlling said energy in response to predetermined electrical signals, and a sensing device coupled to the control means for the energy, the sensing device being responsive to a meteorological parameter

and serving to produce a predetermined electrical condition when the meteorological parameter is within a certain range of values and serving to produce a different electrical condition for other values of the meteorological parameter.

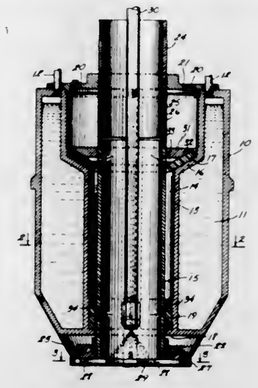
2,665,941
DEVICE FOR MOVING FIELD SPRINKLER SYSTEMS
David G. Idler, Kirk, Colo.
Application January 14, 1952, Serial No. 266,344
1 Claim. (Cl. 299—47)



A vehicle for moving field sprinkler systems comprising: two spaced-apart, substantially horizontal vehicle chassis members; a fixed front axle secured to and extending transversally of the forward extremities of said chassis members; front ground-engaging wheels rotatably mounted on the extremities of said front axle to support the forward extremities of said chassis members; a horizontal bearing sleeve mounted on the rear extremity of each chassis member at right angles to the axis of the latter and in alignment with each other; a tubular rear axle rotatably mounted in said bearing sleeves and projecting oppositely outward from said chassis members; traction wheels fixedly mounted on the projecting extremities of said rear axle; means on each extremity of said rear axle for connecting the latter to a length of sprinkler pipe; a drive sprocket fixedly mounted on said rear axle intermediate said bearing sleeves; an engine supported by said chassis members; power transmission means transmitting power from said engine to said drive sprocket for rotating said rear axle and, through it, said drive wheels; a first length of sprinkler pipe detachably affixed to one extremity of said rear axle; a second length of sprinkler pipe aligned with the first length; a telescoping connecting shaft extending between the adjacent extremities of said pipe lengths; and universal joint means connecting the extremities of said shaft to the adjacent extremities of said pipe lengths so that the rotative effort of said rear axle will be transmitted through said first pipe length to said second pipe length.

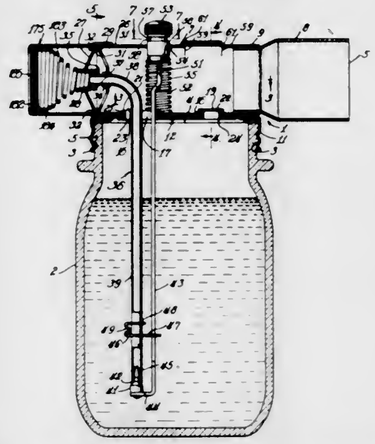
2,665,942
TWO-FLUID CENTRIFUGAL SPRAY MACHINE
William Spencer Bowen, Westfield, N. J.
Application January 9, 1951, Serial No. 205,093
8 Claims. (Cl. 299—69)

1. An atomizing device, comprising a stationary housing member, a hollow rotor carried by the housing, inlet means for introducing an atomizing fluid under pressure into the rotor, an annular nozzle carried by the rotor and communicating with the hollow therein, a plurality of restricted orifices in the nozzle with their axes so positioned that the atomizing fluid passing therethrough exerts a rotative force on the rotor, and means to introduce a fluid to be atomized into the nozzle to be carried through at least



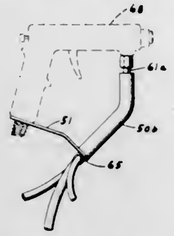
certain of the restricted orifices by the atomizing fluid.

2,665,943
SPRAYER CONSTRUCTION
George H. Palm, Chicago, Ill., assignor to Illinois Stamping & Mfg. Co., Chicago, Ill., a corporation of Illinois
Application September 9, 1949, Serial No. 114,731
12 Claims. (Cl. 299—86)



3. In a foam creating device for sprayers, and the like, including a sprayer head for an air and fluid outlet opening in one end thereof, a hollow body member having an air and fluid opening therein of a size to engage such end of a sprayer head and be supported thereon, and having an outlet opening at the other end, the latter having an inwardly extending peripheral flange thereon, a plurality of apertured screens positioned adjacent the inner face of said flange and operatively extending across said outlet opening, and a coiled spring member having a substantially conical shape with the coils of greatest diameter positioned adjacent said screens and frictionally engaging the body, and the coils of smallest diameter positioned adjacent the inlet end of the body and adapted to be positioned in the air and fluid outlet opening of such a sprayer head.

2,665,944
INSTANTANEOUS COATING MATERIAL HEATING UNIT
Charles B. Lansing and Edward G. Hart, Cleveland, Ohio, assignors to The Arco Company, Cleveland, Ohio, a corporation of Ohio
Application December 22, 1949, Serial No. 134,535
1 Claim. (Cl. 299—86)



In a heating unit for heating a coating material prior to spraying as said coating material flows to a spray gun from a bulk source, said spray gun having a nozzle and a handle, the combination comprising: a tubular housing defining a central chamber; tube plates closing each of the ends of said chamber; an end plate spaced from each of said tube plates in a direction away from said chamber and defining a compartment between one of said end plates and one of said tube plates at each end of said housing; a plurality of tubes communicating with each of said compartments and extending between said compartments through said chamber, said tubes having a maximum flow rate substantially equal to the maximum flow rate demand of said spray gun; means for admitting a low temperature, high specific heat source of thermal energy to said chamber; port means for admitting coating material to one of said compartments whereby said coating material may flow through said heating unit in heat exchange relationship to said source of high thermal energy; said heating unit formed through an arc adjacent its center to form a shallow "V"; means at one of the ends of said heating unit for mounting said heating unit to said spray gun adjacent the nozzle of said spray gun; means at the other of the ends of said heating unit for mounting said heating unit to the handle of said spray gun.

2,665,945
RESILIENT CONTAINER AND CLOSURE THEREFOR
Murray M. Barton, Kansas City, Mo., assignor to Injection Molding Company, Kansas City, Mo., a corporation of Missouri
Application November 17, 1951, Serial No. 256,914
1 Claim. (Cl. 299—90)

A container formed of resilient material and having a tubular neck with substantially cylindrical interior and exterior portions and having an annular end face, a spray nozzle having an exterior cylindrical portion frictionally engaged within the inner cylindrical portion of the tubular neck and having a conical portion of larger base diameter than the cylindrical portion thereof to provide a shoulder to seat upon the end face of the tubular neck, and a removable cap also formed of resilient material and having a cylindrical interior portion surrounding the cylindrical portion of the spray nozzle and an internally tapered portion engaging the conical portion of the spray nozzle, the interior cylindrical portion of the cap having an annular groove and the exterior cylindrical portion of the tubular neck having a lug projecting therefrom to expand the inner cylindrical portion of the cap when the cap is moved axially over the spray nozzle and onto the tubular neck of the container and to engage in said annular groove when the



internally tapered portion of the cap engages the conical portion of the spray nozzle to retain the spray nozzle in said tubular neck and the closure cap on the container under applied pressure tending to distort the resilient container.

2,665,946
SPRAY NOZZLE
Arthur E. Broughton, Glens Falls, N. Y.
Application May 29, 1951, Serial No. 228,930
5 Claims. (Cl. 299—104)

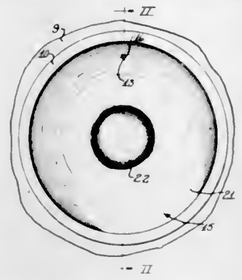


1. A shower pipe comprising an elongated tube formed of rigid material and having a plurality of longitudinally-spaced openings with cylindrical side walls; nozzles secured in said openings comprising button-like discs having a cylindrical portion closely fitted in said cylindrical openings and provided with a centrally-disposed discharge pasage extending therethrough; the inlet face of said discs being a cylindrical surface coaxial with and of substantially the same radius as the inner surface of said tube and provided with a diametrically-extending groove therein communicating with said discharge passage; the outlet faces of said discs being provided with a diametrically-extending groove therein disposed at right angles to the groove in the inlet face and also communicating with said passage; whereby, fan-shaped jets will be discharged from said nozzles, the inner surface of said tube will be a smooth, cylindrical surface interrupted only by the grooves in the inlet faces of said nozzles, and a piston closely fitted in said tube may be freely reciprocated therein.

2,665,947
WHEEL COVER
George Albert Lyon, Detroit, Mich.
Application June 20, 1951, Serial No. 232,622
5 Claims. (Cl. 301—37)

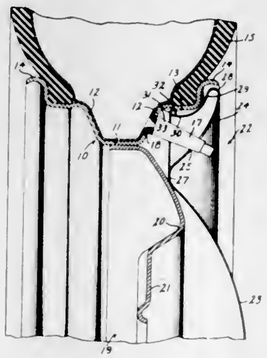
1. In a cover structure for a wheel including multi-flange tire rim and body parts, a circular

cover including a radially outer annular portion of such radial extent as to overlie at least a substantial part of the body part and to extend over the junction of the wheel parts onto a flange of the rim part, said portion being slightly curved and convex toward the wheel body part and having a highly lustrous external finish so as to re-



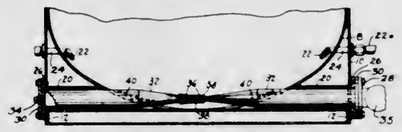
flect light generally axially outwardly in inclined planes intersecting the axis line of the wheel a short distance beyond the wheel, said cover also having a central crown-like portion at the center of said annular portion over the hub of the wheel and bulged in a direction away from the wheel, said crown-like portion being of smaller diameter than the width of said annular portion.

2,665,948
WHEEL COVER
George Albert Lyon, Detroit, Mich.
Original application December 9, 1943, Serial No. 513,546, now Patent No. 2,440,638, dated April 27, 1948. Divided and this application November 20, 1947, Serial No. 787,106
8 Claims. (Cl. 301—37)



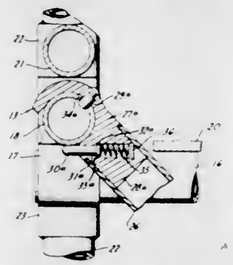
1. In a wheel structure including a multi-flanged tire rim and a load sustaining body part, the tire rim including an intermediate generally axially extending flange having a formation providing at the radially inner side thereof a generally axially inwardly directed cover retaining shoulder and a generally curved terminal flange, a cover including a portion in substantially concealing relation to the tire rim and a portion extending into concealing relation to the wheel body, said tire rim concealing portion having a turned-under generally radially inwardly and axially inwardly extending resilient attachment flange of smaller diameter than said intermediate flange of the tire rim and disposed in substantially uniformly radially inwardly spaced relation thereto, said attachment flange including a generally radially outwardly protruding terminal formation affording a resilient bead structure engaging said shoulder in retaining snap-on, pry-off relation and maintaining the remainder of the attachment flange spaced from said intermediate flange to afford a substantially radially floating relationship of the outer margin of the cover to the tire rim except where the terminal resilient bead engages the tire rim shoulder, the radially outer extremity of the tire rim concealing cover portion having a diameter substantially greater than that of said tire rim intermediate flange, and said cover radially outer extremity being disposed adjacent the extremity of the tire rim terminal flange and extending in floating relation thereto upon assembly of the cover with said tire rim.

2,665,949
TILTED CONTAINER
George R. Ericson, Kirkwood, Mo., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application April 24, 1950, Serial No. 157,753
11 Claims. (Cl. 302—57)



1. A closed container for the shipment of pulverulent material comprising a cylindrical head portion, a cylindrical base portion, a central cylindrical portion joining the head and base portions, and a plate metal skirt shrouding the lower portion of the container and having its upper edge secured to each of said portions to retain the container in a tilted position.

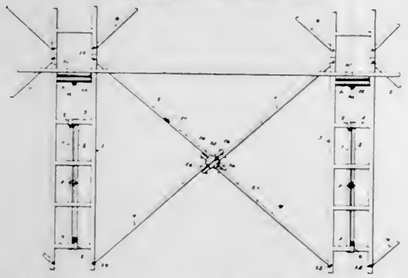
2,665,950
PORTABLE SCAFFOLD UNIT
Wallace J. S. Johnson, Berkeley, Calif.
Application September 15, 1947, Serial No. 774,038
7 Claims. (Cl. 304—2)



4. In a dismountable scaffolding having tubular brace sections, a coupling comprising a body having a shank portion secured within an end of a tubular brace section in axial alignment therewith and provided with a bore extending through the shank portion at an acute angle to the axis of the brace, said bore opening outwardly at a point slightly spaced from the end of the brace, a hook-shaped portion upon the body opening outwardly at right angles to the axis of the shank and brace and arranged to seat upon a second tubular section disposed at right angles to the brace section, interengageable pin and socket means upon the hook portion and the tubular section engaged thereby for positioning

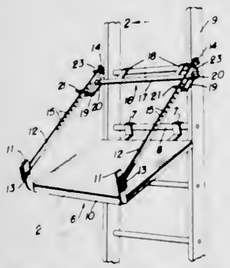
the coupling longitudinally of said tubular section and preventing relative rotation thereof, and latch means mounted in the bore of the shank and operable for releasably holding the hook portion in seated position upon the second tubular section.

2,665,951
SCAFFOLDING
Joseph S. Bobst, Waukesha, Wis.
Application March 17, 1949, Serial No. 81,925
2 Claims. (Cl. 304—3)



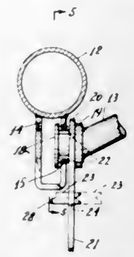
1. A scaffold comprising spaced elongated substantially vertical ladders, a pair of elongated extensible crossed braces extending between the ladders, one cross brace being connected to a ladder adjacent the lower end thereof and to an adjacent ladder adjacent the upper end thereof, the other cross brace being connected to the first mentioned ladder adjacent the upper end thereof and to the second mentioned ladder adjacent the lower end thereof, each cross brace comprising a pair of elongated brace bars each having a longitudinal row of longitudinally spaced openings extending transversely therethrough, a joined pair of elongated parallel sleeves mounted on and encircling each pair of brace bars adjacent the ends thereof remote from the ladders, and pins extending through registering openings in the brace bars adjacent opposite ends of the sleeves for holding the crossed braces in selected extended positions.

2,665,952
LADDER PLATFORM
Wayne R. Edwards, Des Moines, Iowa
Application November 26, 1951, Serial No. 258,169
1 Claim. (Cl. 304—31.5)



A ladder attachment of the character described comprising a platform, means for attaching the inner end of said platform to a ladder, and means for attaching the outer end of the platform to said ladder, the second named means including a transverse bar mounted on a rung of the ladder, links pivotally mounted on the end portions of said bar, said links each including an angularly extending end portion having a longitudinal slot therein, arms pivotally mounted on said outer end of the platform and extending slidably through the slots, and heads on the free ends of the arms, said arms having longitudinally spaced notches therein, said angularly extending end portions of the links being engageable selectively in the notches for adjustably connecting said links to said arms, said links further including bifurcated angularly extending end portions slidably straddling the arms.

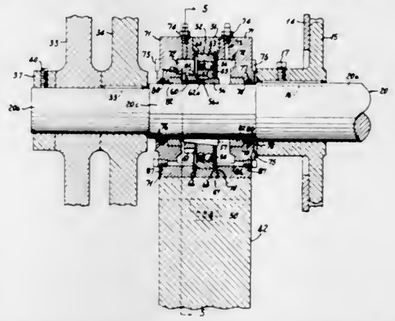
2,665,953
KNOCKDOWN SCAFFOLD HAVING SAFETY LOCK
Clair F. Maroney, Daniel I. Weisz, and Ralph W. McGrew, Ellwood City, Pa., assignors to Beaver Art Metal Corporation, Ellwood City, Pa., a corporation of Pennsylvania
Application September 13, 1951, Serial No. 246,366
2 Claims. (Cl. 304—40)



1. In a separable connection for securing diagonal braces to the rectangular end frames of a knockdown scaffold having at least one gusset plate on the end frame, each having a keyhole slot therein including an eye and a restricted neck, a collar rotatably mounted on each end of the braces, said collar having a portion shaped and dimensioned to enter said neck when turned to one position and be held against removal when turned to another position, retaining means integral with the brace on either side of the collar whereby the collar is maintained against axial or longitudinal movement, and handle means on the collar for rotation thereof, the combination with said separable connection of a pin mounted in an opening in the handle means for movement transverse to the plane of rotation of said collar whereby rotation of said handle is prevented when said pin is in one extreme position and freely rotatable when the pin is in the other extreme position, said pin being slotted at one end and bent outwardly in opposite directions from the plane of the body of the pin preventing removal from the opening in the handle at said end, the opposite end having a notched portion and an outturned portion whereby the pin is removable at said end by turning the pin into a plane parallel to the plane of rotation of the collar.

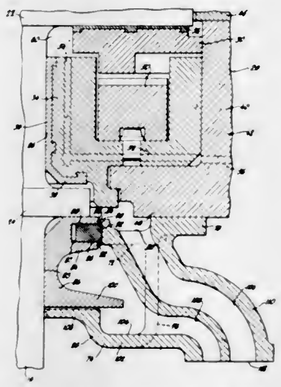
2,665,954
MOUNTING FOR CARDING MACHINE CYLINDER SHAFTS AND THE LIKE
George G. Sherrill, Troutmans, N. C.
Application February 26, 1951, Serial No. 212,717
2 Claims. (Cl. 308—35)

1. An improved bearing assembly adapted to be mounted on a frame member for rotatably supporting a shaft, said improved bearing assembly comprising a bearing block adapted to be secured on the frame member and through which the adjacent portion of a shaft extends, an anti-friction bearing mounted in the bearing block, said anti-friction bearing including an outer race fixed in the bearing block and an inner race, means securing the inner race of said anti-friction bearing on said shaft, a bearing cap secured on each end of the bearing block, a friction bearing mounted in each of said bearing caps and being positioned concentrically relatively to the anti-friction bearing and the shaft, the proximal surfaces of the bearing caps being provided



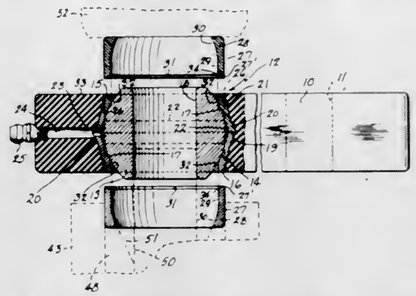
with cavities therein to provide spaces between the bearing caps and the anti-friction bearing, means for introducing lubricant into the space between each end of the anti-friction bearing and the corresponding bearing cap, and the internal diameter of the friction bearing being slightly larger than the external diameter of the shaft whereby said friction bearings will permit the shaft to rotate freely therein and will support said shaft upon failure of the anti-friction bearing.

2,665,955
CRANKSHAFT THRUST BEARING OIL SEAL
William E. Brill, Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 20, 1951, Serial No. 262,538
8 Claims. (Cl. 308—36.1)



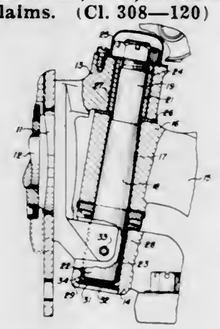
1. The combination with a generally vertically disposed rotary shaft and a casing adapted to receive a continuous supply of liquid having a bottom wall with an opening through which the shaft extends and the liquid drains, of means for collecting said drainage liquid and sealing against the escape of liquid along the shaft, said means comprising an annular housing surrounding the shaft below said opening, said housing being of inwardly presenting generally C-shape in radial section with the upper wall of the C terminating with an annular internal seating surface facing the shaft, a ring slidably fitting said seating surface, and means fixedly associated with the shaft providing an outwardly presenting annular groove slidably receiving said ring and a slinger flange extending into said housing, said housing having separate drain passages leading outwardly thereof from the upper surface of said upper wall and from the housing interior.

2,665,956
BEARING
Lewis R. Heim, Fairfield, Conn., assignor to The Heim Company, Fairfield, Conn., a corporation of Connecticut
Application September 7, 1949, Serial No. 114,419
5 Claims. (Cl. 308—72)



1. A bearing structure comprising a support provided with a transverse opening in which bearing elements are mounted, said elements comprising a central spherical bearing member, a pair of supporting rings for said bearing member each having an internal spherical socket to embrace the bearing member and outer walls tapered to increase in diameter inwardly from its outer edge so as to be held by the material of the support, and the inner edge portions of the rings being bent and expanded outwardly to space them from the spherical bearing member to provide a channel about said member.

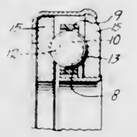
2,665,957
LUBRICANT SEAL
James J. Glander, Detroit, Mich., assignor, by mesne assignments, to Rockwell Spring and Axle Company, Coraopolis, Pa., a corporation of Pennsylvania
Application March 17, 1949, Serial No. 81,937
9 Claims. (Cl. 308—120)



1. In combination with a member having a cylindrical bore open at an end, a circular, flexible,

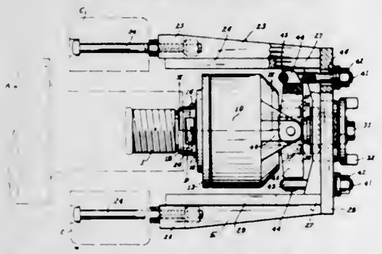
radially-expansible, concave-convex closure element having a diameter slightly less than said bore, when there is no fluid pressure in said bore, so that it is relatively freely mounted in said bore with its concave side facing said open end of the bore, means for preventing axial displacement of said element through said open end, and means for introducing fluid under pressure into said bore inwardly of said member so that said fluid pressure will tend to expand said element into peripheral contact with said bore.

2,665,958
BALL RETAINER RING FOR BALL BEARINGS
John Waldherr, Jr., Fairfield, Ill., assignor to Chefford Master Manufacturing Co. Inc., a corporation of Illinois
Application January 29, 1952, Serial No. 268,877
4 Claims. (Cl. 308—201)



1. For use in a ball bearing having race rings and balls between said rings, a non-metallic ball retainer ring for holding the balls in spaced relation having an inner and an outer flange and a web extending between the flanges substantially at the mid-depth of the flanges, said web being provided with a plurality of circumferentially spaced holes, the edge of the web at a hole being adapted to embrace a ball when set therein, and a plurality of pairs of axial extensions on the web, one of the extensions of each pair being on an opposite side of the hole circumferentially of the retainer ring from the other extension of the pair and on the same axial side of the web, each pair of extensions overlapping a hole to prevent a ball from passing completely through the retainer ring, some pairs of extensions being on one side of the web and others on the other side of the web.

2,665,959
THRUST BEARING
William Hyams, Pittsburgh, Pa., assignor to Mackintosh-Hemphill Company, Pittsburgh, Pa., a corporation of Delaware
Application April 27, 1949, Serial No. 89,897
4 Claims. (Cl. 308—233)



1. For engagement with a shaft and the shaft housing structure; a thrust bearing comprising the combination of a longitudinally rigid friction-reducing structure including a spindle adapted for direct supported attachment to the neck of a shaft for rotation therewith, an enclosing cartridge surrounding said spindle, an anti-friction assembly disposed between said spindle and said cartridge for facilitating rotation of the spindle with respect to the cartridge, and means for preventing relative axial movement between said spindle and said cartridge and axial play in the said anti-friction assembly therebetween, said friction-reducing structure comprising the spindle, anti-friction assembly and enclosing cartridge assembled as a unitary structure engageable and disengageable with the neck of a shaft while maintaining its assembled condition; with a bracket adapted for mounted attachment to the shaft housing structure, a puller assembly comprising puller members advanceable and retractible in said bracket and connecting means engaging the said puller members with said cartridge to exert thereon a force directed longitudinally of the shaft and outwardly away from the shaft housing and to hold the said cartridge against rotation with the said spindle, the said means engaging the said puller members to the said cartridge providing limited angular rocking and limited vertical movement therebetween, and a pusher assembly comprising a thrust member carried by said bracket advanceable and retractible in approximate alignment with the axes of said spindle and cartridge to exert thereon a force opposed to that exerted by the said puller members and a contact member carried exteriorly and axially of said cartridge in contact with said thrust member, said thrust member and contact member presenting to each other surfaces one of which is convexly curved; the said puller assembly and pusher assembly providing flexibility sufficient to give accommodation to slight vertical shaft adjustment and to shaft misalignment while maintaining tight longitudinal engagement with the said cartridge.

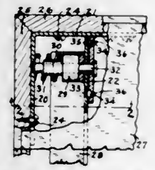
2,665,960
FLUID-PERMEABLE ARTICLE AND PROCESS OF MAKING THE SAME
Arthur L. Causley, Detroit, Mich., assignor to Michigan Powdered Metal Products Company, Northville, Mich., a corporation of Michigan
Application April 16, 1949, Serial No. 87,975
6 Claims. (Cl. 308—240)



2. A substantially rigid bearing comprising a hollow bearing body of porous material having a bearing surface thereon and a chamber therein, and a substantially rigid porous cellular structure of coarser porosity than said body disposed in and substantially filling said chamber.

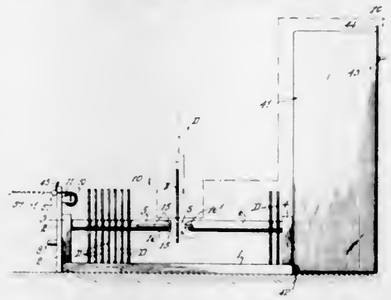
2,665,961
FOLDING TABLE LEG MOUNTING MEANS
Albert E. Anderson, Winslow, Wash.
Application January 22, 1951, Serial No. 207,201
2 Claims. (Cl. 311—99)

1. In table supporting means, two spaced apart parallel metal plates; a two flange metal table leg of angle shaped cross section having one end portion thereof positioned between said plates with one flange parallel to and adjacent one of the plates and the other flange extending toward the other plate; a hub rigidly attached to the inner side of the upper end portion of the table leg flange which is positioned parallel to and adjacent said one plate; a pivot pin extending through both plates and through the hub carrying flange and the hub; a spring positioned between the hub and one of the plates yieldingly urging the table leg toward the other plate; a rounded knob rigid with the outer side of the hub carrying flange of the table leg in radially spaced relation from said pivot pin and



yieldingly pressed against the adjacent plate by the force of said spring; and two depressions in said adjacent plate positioned in the path of movement of said knob, whereby said knob will enter said depressions and yieldingly hold the table leg in a folded position and in an extended position.

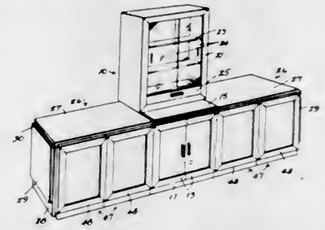
2,665,962
CONTAINER FOR STORING AND DELIVERING DISK RECORDS
Henry N. Truesdell, Irvington, N. J.
Application April 20, 1951, Serial No. 222,097
12 Claims. (Cl. 312—13)



6. A unit container for storing and delivering disc records having the usual central hole therein, said unit, including a slidable base having a front plate with a handle for sliding the unit, a front support located at the inner side of the plate, a support at the rear of the base and in alignment with the front support, a two section disc support rod extending between said front and rear supports, said rod sections having equal diameters exceedingly less than the central hole in the discs as and for the purpose described herein, said rod sections being vertically spaced from the base so discs mounted on the rod will sufficiently clear the base so they can be slid along the rod sections and movable means having the same diameter as said rod sections and operatively connected to the inner ends of said rod sections so as to present an absolutely smooth surface for said central holes in the discs to slide on without any injury to said disc holes so said means can be moved to make an opening through which a disc may be passed.

2,665,963
COMBINATION DINING FURNITURE UNIT
Sanford Wallack, Fairfield, Conn., assignor, by mesne assignments, to Lee Leiberman, New York, N. Y.
Application December 22, 1950, Serial No. 202,263
6 Claims. (Cl. 312—235)

1. A combination dining furniture unit, comprising a central cabinet section including horizontal vertically spaced parallel rectangular parts in substantial register at their edges and providing a lateral pocket open at its front and sides, a pair of table sections each comprising a horizontal top part of a width between its longitudinal edges substantially corresponding to the front-to-back width of said cabinet having its inner end portion engaged in said pocked with its said longitudinal edges normally closely contiguous to the front and back edges of said pocket at one side of the central transverse vertical plane of said cabinet section and said top part having a major portion thereof normally disposed in a longitudinal position extending beyond a side of said cabinet section, and a vertical floor engaging leg part rigid with said top part

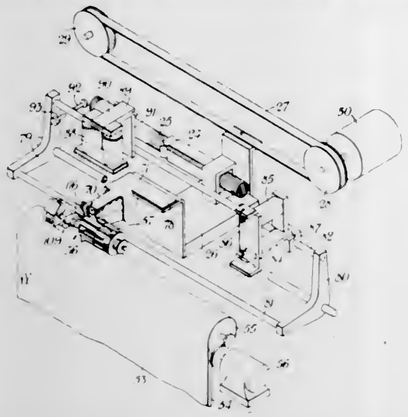


and longitudinally spaced from said side of said cabinet section to normally provide a space defined by said top part, cabinet side and leg part, and pivot means within said pocket pivotally connecting each of said top parts of said table sections to said cabinet section for horizontal swinging movement about a vertical pivot axis at a point of said top part vertically opposed by said vertically spaced parallel parts of said cabinet section, said table sections each adapted to swing about its pivot axis into a forward position at right angles to its longitudinal position to bring the forward longitudinal edges of said table sections together in a vertical plane coincident to said central transverse vertical plane of said cabinet section.

2,665,964
RECORDING INSTRUMENT
George Olah, London, and Herbert Arthur Smith, Charlton, London, England, assignors to Elliott Brothers (London) Limited, London, England, a British company
Application May 22, 1951, Serial No. 227,581
Claims priority, application Great Britain May 25, 1950
6 Claims. (Cl. 346—32)

1. A recording instrument comprising a recording surface, a carriage, means for advancing said surface relative to said carriage in a given direction, means for constraining said carriage to move in a direction transverse to said given direction, a plurality of signal-generating devices, means capable of responding to a signal from said signal-generating devices to cause said carriage to be displaced through a distance proportional to the value of said signal, means for selectively connecting each of the signal-generating devices in turn to said signal-responsive means in accordance with a cycle which is continuously repeated, a plurality of recording elements displaceably mounted on the carriage, each of said elements being arranged to produce a record having a characteristic identifiable with one only of said signal-generating devices, means for advancing each of said elements in turn into an operative position, and means for bringing the recording element which is in the operative

position into recording engagement with the recording surface after each displacement of the carriage, including synchronising means for ensuring that the cycle of displacement of the recording elements shall be brought into step with the cycle of connection of the signal-generating devices to the signal-responsive means, said synchronising means comprising a pair of devices which must be simultaneously in an oper-



ative condition once in each cycle in order that the means for bringing the recording element into recording engagement with the recording surface may function for a single selected recording element, one of said means being rendered operative only when said selected recording element is in the operative position and the other of said devices being rendered operative only when a particular signal-generating means is connected to the signal responsive means.

2,665,965

STYLUS MOVING AND GUIDING STRUCTURE FOR ELECTRICAL RECORDERS

Birt Griffin Blackman, Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application October 24, 1949, Serial No. 123,220

1 Claim. (Cl. 346—139)

Electrical recording apparatus comprising: means for supporting and feeding a record strip in transversely flat shape past a recording position; a stylus carriage and means for moving it through a closed path a portion of which path is parallel to said strip at said recording position; a spring wire stylus carried by said carriage and projecting therefrom with its tip in contact with said record strip during movement of said carriage through said portion of its path, said stylus being of such length and inclination as to be substantially bent from its normal shape into a recording shape by its contact with said record strip during its transit thereover; and stylus guiding means in the path of said stylus beyond the trailing edge of said record strip, said guiding means having a stylus tip-contacting planar surface inclined at an acute angle away from said parallel portion of said stylus



carriage path in the direction of travel of the carriage whereby said stylus gradually unbends from said recording shape to said normal shape after leaving the trailing edge of the record strip and during transit over said guiding means, and a second stylus guiding means in the path of said stylus at the leading edge of said record strip and having a stylus contacting surface inclined toward said parallel portion of said stylus carriage path in the direction of travel of the carriage, said stylus in its normal shape extending at an acute angle rearwardly and laterally from said carriage with respect to the path of movement of the carriage, and said angle being greater than the angle between said path and said second stylus-guiding means.

CHEMICAL

2,665,966

METHOD FOR INSOLUBILIZING SPUN PROTEIN FILAMENTARY PRODUCTS

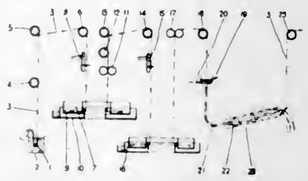
Robin H. K. Thomson, Fairlie, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

Application July 9, 1951, Serial No. 235,718

Claims priority, application Great Britain August 28, 1950

5 Claims. (Cl. 8—127.6)

1. A process of insolubilizing at least until the filaments do not dissolve in a bath containing 0.1% sulfuric acid and 0.25% sodium sulfate when immersed therein for 90 minutes at 97° C., under conditions substantially free from tension, a continuous travelling tow of protein filaments obtained by spinning aqueous alkaline solutions of proteins selected from the group consisting of vegetable seed globulins and phospho-proteins into a sulfuric acid-sodium sulfate coagulating bath, said process comprising the steps of relax-



ing said tow of coagulated filaments by impregnating the same with an aqueous solution which contains at least 220 grams of sodium sulfate per liter of solution, and is substantially free of sodium chloride, thereafter impregnating the thus relaxed tow at a temperature up to 80° C. with an aqueous formaldehyde solution having a pH of between 4 and 7 which contains at least 210 grams of sodium sulfate per liter of solution and is substantially free of sodium chloride and thereafter impregnating the tow at a temperature between 70 and 98° C. in a strongly acidified aqueous formaldehyde solution containing, per liter of solution, at least 340 grams of sodium sulfate, at least 15 grams of sodium chloride and at least 200 grams of sulfuric acid said process taking from one to thirty minutes.

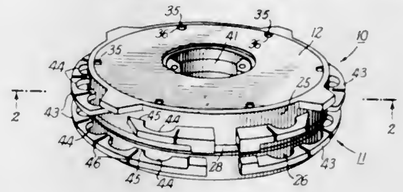
2,665,967

STEEL BANDED ALUMINUM MOLD

Morris Bean and William Beatty, Yellow Springs, Ohio, assignors to Morris Bean & Company, Yellow Springs, Ohio, a corporation of Ohio

Application October 9, 1950, Serial No. 189,094

7 Claims. (Cl. 18—47)



7. A mold for tire casings capable of being subjected without damage to vulcanizing heats comprising in combination a continuous annular core comprised of a cooperating pair of cast aluminum alloy rings, each including side wall and tread-forming portions and extending radially beyond the bead of a treated tire casing, steel bead-forming rings inserted in said aluminum core rings in operative relation to the bead portion of the tire casing, steel bands of relatively small radial thickness having registering engagement parts surrounding said core rings normally in press set relation thereto, and guard rings of substantially pure aluminum interposed between the aluminum castings and the steel bands to serve as a barrier against direct electrolytic action between the castings and the bands.

2,665,968

PROCESS FOR THE PREPARATION OF CYANATES OF ALKALIMETALS FROM UREA AND ALKALINE NITRITES

Felice Bucci, Rome, Italy, assignor to Fondazione Emanuele Paterno, Rome, Italy, a company of Italy

No Drawing. Application June 18, 1951, Serial No. 232,248

Claims priority, application Italy July 15, 1950

6 Claims. (Cl. 23—75)

3. A process of preparing alkali metal cyanates comprising mixing urea and alkali metal nitrite in the dry state in a ratio of about 2 mols of urea for 1 mol of alkali metal nitrite, contacting said mixture, portionwise, onto an inert heated solid surface maintained at a temperature of about 210–220° C. for a sufficient period of time to heat said mixture to the temperature of said solid surface and until the evolution of ammonia from such heating ceases, thereafter collecting the product which has been contacted at said solid surface and mixing it with an additional small quantity of urea, heating the mixture in a vitreous crucible at a temperature of about 180–190° C. until ammonia is no longer evolved therefrom, raising the temperature of the so-heated mixture to about 530° C., and grinding the mixture at a temperature of about 530° C. for a sufficient period of time to provide a test of an aqueous solution of the so-treated mixture with a cobalt nitrate solution to give a clear blue solution and to thereby obtain a crystalline product of a high degree of purity.

2,665,969

PURIFICATION OF ALUMINUM SULFATE LIQUORS

Robert V. Townend, Arlington, N. J., and Horace Q. Trout, Brooklyn, N. Y., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application October 24, 1952, Serial No. 316,806

10 Claims. (Cl. 23—123)

1. A process for the removal of potassium from aluminum sulfate liquors containing potassium comprising subjecting the liquor to the zeolitic action of a hydrated sodium-iron basic sulfate.

2,665,970

PRECIPITATION OF VANADIUM OXIDES

Jack Halpern and Frank A. Forward, Vancouver, British Columbia, Canada, assignors to National Research Council, Ottawa, Ontario, Canada, a body corporate

No Drawing. Application December 26, 1952, Serial No. 328,138

4 Claims. (Cl. 23—140)

1. A method of extracting vanadium oxide from aqueous solutions containing it in pentavalent form which comprises heating the solution in a closed reaction zone in the presence of a hydrogenation catalyst and hydrogen under a positive partial pressure of at least three pounds per square inch at a temperature of 125 to 400° F. to precipitate the vanadium oxide.

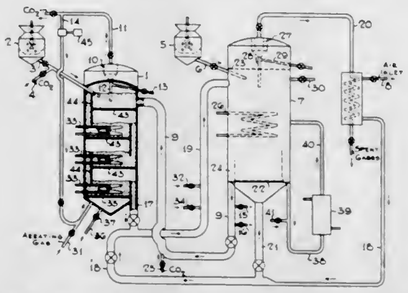
2,665,971

PRODUCTION OF PURE CARBON DIOXIDE

Warren K. Lewis, Newton, and Edwin R. Gilliland, Arlington, Mass., assignors to Standard Oil Development Company, a corporation of Delaware

Application May 12, 1949, Serial No. 92,812

6 Claims. (Cl. 23—150)



1. A process for preparing pure CO_2 substantially free of non-condensible gases which comprises contacting carbonaceous material in a reaction zone with solid finely-divided higher metal oxide selected from the group consisting of ferric oxide, vanadium pentoxide and stannic oxide, maintaining the solids content in the reaction zone in a fluidized state by means of injected CO_2

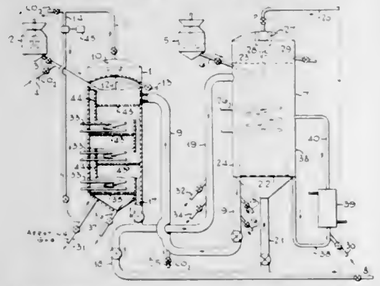
gas and at a temperature of 500° C. to 1200° C. whereby the carbonaceous material is oxidized to CO_2 and the metal oxide reduced to a lower oxide, removing substantially pure CO_2 from an upper part of the reaction zone, removing from the reaction zone a stream of solid higher and lower metal oxides containing at least 10 weight per cent of the higher oxide, introducing the withdrawn stream into a separate oxidation zone wherein the lower oxide is reoxidized to the higher oxide by means of a free oxygen-containing gas and the exothermic heat of reaction imparted to the oxide, withdrawing a stream of hot reoxidized higher metal oxide from the oxidation zone, purging the hot higher metal oxide of non-condensible gases by means of CO_2 gas injected into the withdrawn stream, separating the purged non-condensible gases from the hot oxide, and returning hot purged higher metal oxide fluidized in CO_2 to the reaction zone.

2,665,972

PRODUCTION OF PURE CARBON DIOXIDE

Warren K. Lewis, Newton, and Edwin R. Gilliland, Arlington, Mass., assignors to Standard Oil Development Company, a corporation of Delaware

Application November 13, 1950, Serial No. 195,262
6 Claims. (Cl. 23—150)



1. A process for producing substantially pure CO_2 which comprises contacting a carbonaceous material in a reaction zone with finely divided solid copper oxide, maintaining the copper oxide in a uniform dense, turbulent fluidized state by means of CO_2 separately injected into the reaction zone, maintaining a temperature of 400 to 1000° C. in the reaction zone whereby reaction occurs between the carbonaceous material and the copper oxide to produce CO_2 and a reduced copper oxide, removing a gaseous stream of substantially pure CO_2 from the reaction zone, separately withdrawing a solids stream of reduced copper oxide from the reaction zone, reoxidizing the withdrawn reduced copper oxide in a separate oxidation zone by combustion with air, cooling the reoxidized copper oxide, purging the reoxidized copper oxide of air and gaseous combustion products by means of CO_2 gas and returning the reoxidized oxide fluidized in CO_2 to the reaction zone.

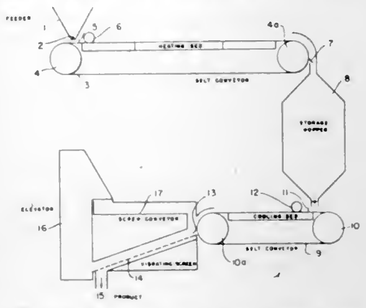
2,665,973

PROCESS FOR PRODUCING FINELY GROUND SULFUR OF NONCAKING CHARACTER

Ralph Eugene Morningstar, Columbus, Ohio, and George H. Whipple, Wilmington, Del., assignors to Mathieson Chemical Corporation, a corporation of Virginia

Application March 17, 1950, Serial No. 150,128
6 Claims. (Cl. 23—224)

1. A process for producing finely ground sulfur of non-caking character which comprises spreading finely ground sulfur on a heat-conducting surface in the form of a thin layer, heating the sulfur layer to a temperature in the range of about 95° C. up to the melting point of the sulfur, discharging the heated sulfur into a hot



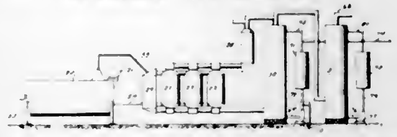
storage zone, withdrawing the sulfur from said storage zone after sufficient time to effect such conversion and in less than about 24 hours cooling the sulfur below about 46° C. and reducing the treated mass to particle form.

2,665,974

APPARATUS FOR THE RECOVERY OF ELEMENTAL SULFUR IN LIQUID FORM FROM GASES CONTAINING HYDROGEN SULFIDE

Ernest B. Miller, Houston, Tex., assignor to Jefferson Lake Sulphur Company, New Orleans, La., a corporation of New Jersey

Original application March 12, 1951, Serial No. 215,178, now Patent No. 2,630,374, dated March 3, 1953. Divided and this application May 13, 1952, Serial No. 287,451
4 Claims. (Cl. 23—262)



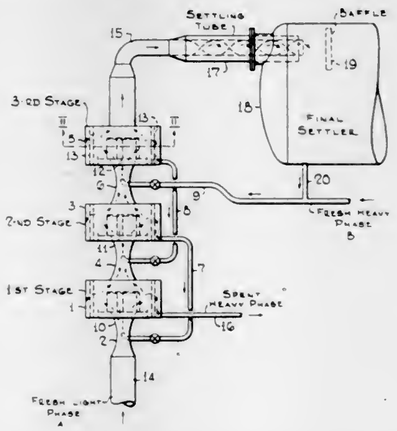
1. A system for recovering elemental sulphur in liquid form from gases containing hydrogen sulphide, comprising in combination, a pre-heater connected to a source of gas to be treated for heating the gas; a series of vertically arranged reactors each adapted to contain a quantity of catalyst capable of effecting the desired catalytic reaction; a heat exchanger; a scrubbing tower; three upper conduits each having a valved connection to the upper end of each of said reactors, a first of said conduits being closed at one end and having its other end connected to said pre-heater, a second of said conduits having one end closed and its other end connected to said heat exchanger, and a third of said conduits having one end open to the atmosphere and its other end closed; three lower conduits each having a valve connection to the lower end of each of said reactors, a first of said lower conduits having one end connected to said heat exchanger and its other end closed, a second of said lower conduits having one end connected to said scrubbing tower and its other end closed, and a third of said lower conduits having one end connected to a source of hot air and its other end closed; a sulphur burner; means including conduits for supplying air and liquid sulphur to the sulphur burner for combustion therein; a conduit having one end connected to the flue gas outlet of said sulphur burner and having branches connected to its other end and to said first and second upper conduits, whereby SO_2 produced by the sulphur burner will be mixed with the gas flowing through said first and second upper conduits; and time controlled, automatic means for selectively opening and closing the valves in all of said upper and lower conduits to permit each reactor to follow a predetermined pattern so that each reactor will become in succession a 2nd oxidation zone, a 1st oxidation zone, and a reactivation zone.

2,665,975

APPARATUS FOR COUNTERCURRENT CONTACT OF FLUID MATERIALS

Thomas Ng, Union, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application February 10, 1951, Serial No. 210,310
1 Claim. (Cl. 23—270.5)



An apparatus for counter-current contacting of substantially immiscible liquids of different specific gravities comprising a series of separate closed contacting chambers disposed in vertically superimposed coaxial relationship, each of said chambers having an inlet and a discharge end, a series of vertically disposed venturis discharging into the inlet end of each of said chambers, each of said venturis having an inlet opening at the throat thereof and an up-stream inlet, said up-stream inlets, except the first, connecting with the discharge outlet from the next preceding chamber, spiral vanes radiating from a common center in each chamber, said vanes being disposed in coaxial relationship with the discharge end of each venturi, an annular perforated baffle surrounding said vanes, forming a settling space, conduits connecting the settling space of each chamber, except the first, with the throat inlet in the venturi discharging into the immediately preceding chamber, a conduit connected to the throat inlet of the last of said venturis in series for introducing a fresh stream of one of said liquids, a conduit connected coaxially with the up-stream inlet of the first of said venturis for introducing the other of said liquids, a conduit for withdrawing final product from the last of said chambers and a conduit connected with the settling space of the first of said chambers for withdrawing final product therefrom.

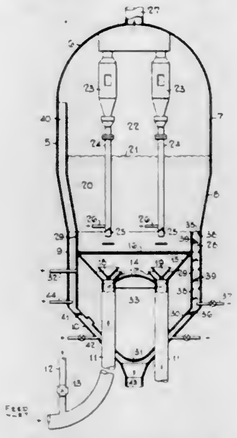
678 O. G. 35

2,665,976

DISTRIBUTORS IN FLUIDIZED SOLIDS REACTOR VESSELS

Cyril O. Rhys, Jr., Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application December 13, 1950, Serial No. 200,537
3 Claims. (Cl. 23—288)



1. A reactor for the contact of vaporous or gaseous reactants and finely divided contact or catalyst particles which comprises a vertical vessel, a perforated distributor plate arranged horizontally in the lower portion of said vessel, an outlet for gaseous reaction products in the top of said vessel, a vertical inlet pipe for the introduction of vaporous reactants and finely divided solids connected to the bottom of said vessel said inlet pipe terminating below said perforated distribution plate having a flaring discharge end and an inverted conical distributor member arranged directly above the discharge end of said inlet pipe in such spatial arrangement and relationship as to distribute the flow evenly and at substantially the same linear rate as in said inlet pipe.

2,665,977

COKE BREEZE BONDED BY PORTLAND CEMENT

William A. Engelhart, deceased, late of Pontiac, Mich., by William A. Engelhart, Jr., administrator, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

No Drawing. Application January 29, 1949, Serial No. 73,672
3 Claims. (Cl. 44—26)

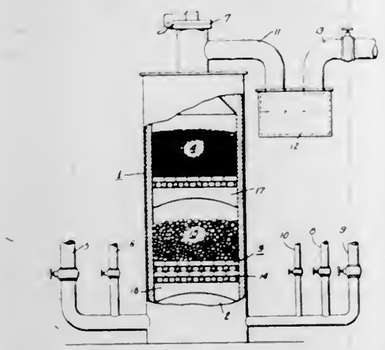
1. The method of forming a fuel brick adapted for use as a fuel in cupola and other melting processes which comprises thoroughly mixing coke breeze, Portland cement and water in the following proportions: one cubic yard coke breeze, 1.1 to 2 cubic feet Portland cement, and 8 to 16 gallons of water, filling an open top mold with said mixed coke breeze, Portland cement and water, rapidly vibrating the mold for from 10 to 15 seconds, removing the formed green brick from the mold and allowing the brick to take an initial set for from 2 to 3 hours, then gradually applying steam to a closed chamber in which the brick is placed until the steam pressure reaches 90 to 110 pounds per square inch, the rate of application of steam being such that the stated

pressure is reached in a period of from two to three hours, then holding at said pressure for approximately 4 hours and then reducing the pressure to atmospheric in a time of about ½ to one hour.

2,665,978
FUEL OIL COMPOSITIONS
Richard D. Stayner and Robert A. Stayner, Berkeley, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 25, 1951, Serial No. 248,280
7 Claims. (Cl. 44—74)

1. A hydrocarbon fuel oil composition containing a small amount sufficient to inhibit line and filter clogging and corrosion of an N,N-di-(alkyl aryl methylene)-N-alkyl-ammonium alkane sulfonate in which the alkyl radical of the alkyl aryl methylene groups contains from 9 to 18 carbon atoms, the N-alkyl radical contains from 1 to 7 carbon atoms and the alkane group contains from 1 to 7 carbon atoms.

2,665,979
METHOD OF REFORMING GASEOUS HYDROCARBONS
John Hawley Taussig, Jr., Ambler, Pa., assignor, by mesne assignments, to The United Gas Improvement Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 31, 1949, Serial No. 124,648
16 Claims. (Cl. 48—196)

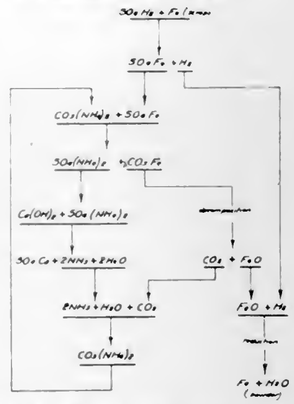


1. The cyclic process for the manufacture of a component of a combustible gas suitable for distribution in city gas systems which comprises, in one part of the cycle, burning a fluid fuel and passing the hot products of combustion through a bed of heat storage material to store heat therein, then through a bed of catalyst for the endothermic reaction between gaseous hydrocarbons and steam to store heat therein, at least the latter portion of said burning being conducted in the presence of insufficient air to support complete combustion; and, during another part of the cycle, passing a normally gaseous hydrocarbon and steam through said bed of heat storage material to heat said gases; passing the hot gases through said catalyst bed at a temperature to effect conversion thereof to hydrogen and oxides of carbon, mainly carbon monoxide, and effecting in said catalyst bed conversion of said hot gases into a gas rich in hydrogen and carbon oxides, mainly carbon monoxide, and containing only a relatively small amount of hydrocarbons, and collecting the resulting gas.

2,665,980
PROCESS FOR GENERATION OF CARBON MONOXIDE
Charles R. Carkeek, Pasadena, Calif., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application May 5, 1950, Serial No. 160,405
4 Claims. (Cl. 48—212)

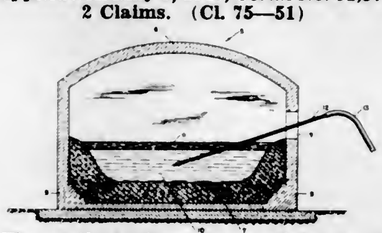
3. In a process for the production of carbon monoxide and hydrogen from a liquid hydrocarbon wherein said hydrocarbon is reacted with oxygen in a reaction zone to produce a product gas stream comprising carbon monoxide and hydrogen and containing entrained free carbon, the improvement which comprises intimately contacting said product gas stream with water in a gas scrubbing zone thereby effecting removal of free carbon from said gas stream and producing a dispersion of carbon in water, withdrawing said dispersion from said gas scrubbing zone, separating water from said dispersion to form a slurry of carbon in water, intimately contacting the slurry of carbon in water with at least a portion of said liquid hydrocarbon feed and thereby effecting a transfer of said carbon particles from the water to the hydrocarbon and forming a dispersion of solid carbon in liquid hydrocarbon, and passing said dispersion of carbon in liquid hydrocarbon to said reaction zone as at least a portion of the fuel feed to the reaction zone.

2,665,981
METALLIC POWDERS
Charles Marquaire, La Tronche, France, assignor to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine, Paris, France, a corporation of France
Application May 18, 1951, Serial No. 227,090
Claims priority, application France May 22, 1950
4 Claims. (Cl. 75—0.5)



1. A method for the manufacture of metallic powders in a high state of purity well fitted for making metallic articles by cold compression and capable of being sintered rapidly at a comparatively low temperature, comprising the steps of dissolving in an acid at least one metal which it is desired to obtain in powder condition, separating the solution of metal salt from the residue, mixing the solution of metal salt with a solution of ammonium carbonate while bubbling carbon dioxide through the mixture to saturate it and precipitate carbonate of the metal and form a solution of an ammonium salt of the acid, separating the precipitated carbonate of the metal, heating the precipitated carbonate of the metal while sheltered from air to decompose it into oxide of the metal and carbonic gas, and heating the oxide of the metal in a reducing atmosphere at a temperature of at least 500° C. to reduce the oxide of the metal to metal.

2,665,982
DESULFURIZATION AND DECARBURIZATION OF IRON AND IRON ALLOYS
Francis T. Crego, East Orange, and Harold R. Fisher, Metuchen, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application May 5, 1949, Serial No. 91,574
2 Claims. (Cl. 75—51)



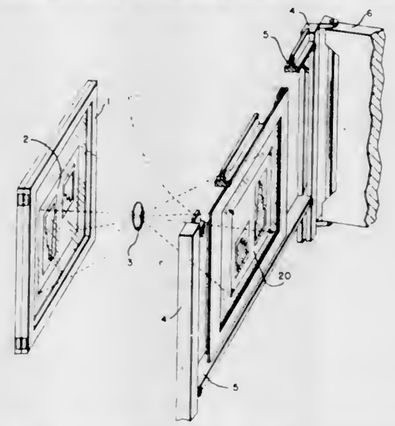
1. The method of removing sulphur and carbon from iron or steel which comprises maintaining a molten bath of the iron or steel on an open hearth furnace, maintaining a highly basic and fluid slag having a lime to silica ratio of at least 2.5 to 1 on the molten bath, introducing a non-oxidizing gaseous medium beneath the surface of the molten bath to effect agitation thereof, continuing such introduction of the non-oxidizing gas until a predetermined degree of desulphurization of the molten bath has been obtained, maintaining the molten metal free of oxidizing agents during the introduction of the non-oxidizing gaseous medium, removing the highly basic slag from the molten metal, and then decarburizing the molten bath on the same hearth in which desulphurization was obtained by introducing oxygen into the molten metal bath to combine with carbon of the molten metal and to raise the temperature of the bath.

2,665,983
METHOD OF SIZING PAPER
Arthur B. Bakalar, San Francisco, and Robert D. Sullivan, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application August 2, 1948, Serial No. 42,149
12 Claims. (Cl. 92—3)

1. A process of sizing paper pulp which comprises contacting an aqueous slurry of the pulp with an aqueous emulsion of a hydrocarbon having a viscosity of 400 to 50,000 SUS at 210° F. containing 0.05% to 5% by weight of said hydrocarbon of a polyphosphoric acid compound together with mutual solvent for said polyphosphoric acid compound and hydrocarbon, and adding an acidic agent to precipitate said emulsion on the pulp.

2,665,984
METHOD FOR MAKING COMBINED LINE AND HALFTONE NEGATIVES
Frank P. Le Tourneau and Henning E. Peterson, Duluth, Minn.
Application February 27, 1950, Serial No. 146,557
2 Claims. (Cl. 95—5)

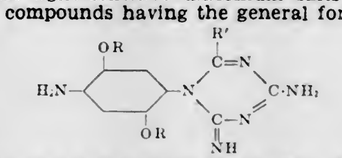
1. The method of masking out portions of an image to prevent same from appearing on a film in a camera when said film is exposed which comprises; inserting a viewing glass in the position to be occupied by said film, placing a transparent sheet adjacent the rear face of said glass, securing masking material to said sheet to cover the portions of said image which are to be masked out, moving said viewing glass out of line with light causing said image, moving



said sheet and mask to a position immediately forwardly of the position formerly occupied by said viewing glass, and placing said film in the position previously occupied by said viewing glass whereby said mask is adjacent said film when the latter is exposed.

2,665,985
LIGHT-SENSITIVE DIAZO COMPOUNDS AND PHOTOPRINT MATERIAL PREPARED THEREFROM
Oskar Süs, Wiesbaden-Biebrich, Germany, assignor to Keuffel & Esser Company, Hoboken, N. J.
No Drawing. Application October 20, 1950, Serial No. 191,325
Claims priority, application Germany October 26, 1949
15 Claims. (Cl. 95—6)

1. The light-sensitive diazonium salts of the amino compounds having the general formula



in which the amino group attached to the benzene ring is diazotized, R stands for a member selected from the group consisting of alkyl radicals of 1–4 carbon atoms and aralkyl radicals and R′ stands for a member selected from the group consisting of hydrogen, alkyl, aralkyl, and aryl radicals.

2,665,986
PROCESS OF PRODUCING COLORED REVERSAL IMAGES
André Rott, Wilrijk-Antwerp, Belgium, assignor to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, a company of Belgium
No Drawing. Application August 8, 1947, Serial No. 767,662. In Germany August 2, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires August 2, 1961
6 Claims. (Cl. 95—88)

1. The photographic process of producing dyestuff images which comprises exposing to light a

photographic material containing a light-sensitive silver halide emulsion layer, and then developing said material while said layer is in contact with a reception layer containing a binder and approximately 0.5 to 1.5 g. per 100 g. of the binder of a substance accelerating reduction and forming nuclei and selected from the class consisting of colloidal silver, sulfides and substances containing a labile sulfur atom, in the presence of a color coupler which couples with the oxidation product of an aromatic amino developer with a developer containing an amino-aromatic developing agent and a thiosulfate silver halide solvent

---

2,665,987

ATTRACTANTS FOR CATTLE FEEDS

Willard E. Baier, Ontario, Calif., assignor to Sunkist Growers, Inc., Los Angeles, Calif., a corporation of California

No Drawing. Application August 2, 1951, Serial No. 240,055

14 Claims. (Cl. 99—2)

1. A process for increasing the palatability of animal feeds low in odorous carotene oxidation products which comprises incorporating therein a small proportion of a violet-smelling alicyclic ketone.

2,665,988

FOOD FLAVORING

Merton A. Searle, Lincoln, Nebr.

No Drawing. Application April 30, 1951, Serial No. 223,831

7 Claims. (Cl. 99—16)

1. As a new product monosodium glutamate in crystal form, said monosodium glutamate having each crystal uniformly coated with a powdered vitamin selected from the class consisting of vitamin B_1, vitamin B_2, vitamin C, and vitamin B_{12}, and mixtures thereof, the particles of said powdered vitamins being small relative to the crystals of the monosodium glutamate.

2,665,989

MILK PROTEIN FOOD PRODUCT AND PROCESS

Hartley W. Howard, Hastings-on-Hudson, and Richard J. Block, Scarsdale, N. Y., and Herbert E. Sevall, Elgin, Ill., assignors to The Borden Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application February 15, 1949, Serial No. 76,642

3 Claims. (Cl. 99—20)

1. In precipitating casein and lactalbumin in water redispersible form from skimmed milk, the method which comprises heating the milk and maintaining it at all times at a pH above the isoelectric point for casein and above the pH at which casein precipitates until the temperature comes to be within the range 85°–95° C., whereby precipitation of casein and lactalbumin are avoided, then adding an acid in amount to establish the pH of the heated milk at approximately the isoelectric point for casein while maintaining the temperature within the said range, the casein and lactalbumin being thus precipitated at the same time, and then separating the casein and lactalbumin so precipitated from the remaining liquid, both the casein and the lactalbumin so obtained being readily dispersible in water at approximate neutrality.

2,665,990

CHEESE AND PROCESS OF PREPARING THE SAME

Stanley G. Knight, Madison, Wis., assignor to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin

No Drawing. Application July 25, 1950, Serial No. 175,889

2 Claims. (Cl. 99—116)

1. In the process of preparing cheese from cow's milk employing the mold *Penicillium roqueforti*, the improvement which comprises in making the cheese free from colored venation characteristic of blue-vein cheese, by using a white mutant obtained by irradiation of blue-green *Penicillium roqueforti*.

2,665,991

METHOD OF STABILIZING FATS AND OILS AND COMPOSITIONS OBTAINED THEREBY

Noel H. Kuhrt, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application October 26, 1951, Serial No. 253,469

12 Claims. (Cl. 99—163)

1. The method of making a stable fatty composition which comprises washing a composition consisting predominantly of fatty material normally subject to oxidation, in liquid form, with glycine and phosphoric acid in solution in a polar solvent which is immiscible with said fatty material, and separating said solution from said composition following said washing.

2,665,992

SEALING COFFEE BEANS

Marguerite Naps, Oakland, Calif.

No Drawing. Application July 10, 1951, Serial No. 236,057

7 Claims. (Cl. 99—167)

1. The process of treating roasted coffee beans to prevent deterioration thereof comprising forming an impervious film over the surface of the individual beans, said film being composed of a substance selected from the group consisting of methyl cellulose, hydroxyethyl cellulose and sodium carboxymethyl cellulose and a substance selected from the group consisting of citric acid and tartaric acid.

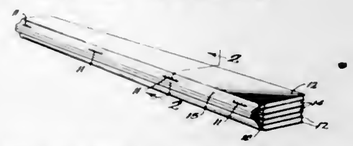
2,665,993

BACON PACKAGE

Fred W. Swanson, Park Ridge, Ill.

Application April 14, 1951, Serial No. 221,107

4 Claims. (Cl. 99—174)



1. A bacon package, comprising a plurality of relatively thin separator leaves anchored together along one side and providing laterally-opening pockets for receiving bacon slices, said leaves being tearable along their sides, and bacon slices uniting pairs of said leaves.

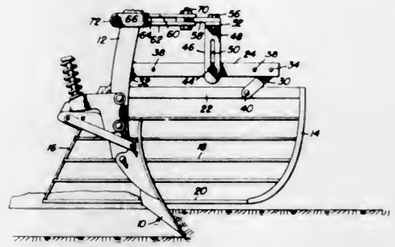
2,665,994

ADJUSTABLE CULTIVATOR SHIELD

Earnest R. Gumm, Cooper, Iowa

Application May 5, 1949, Serial No. 91,492

3 Claims. (Cl. 97—188)



1. In an agricultural implement including a cultivator shovel having a shank portion; a device for screening the dirt deflected by the shovel, said device comprising a grid member having a runner for riding upon the ground, a parallelogram linkage including upper and lower horizontal links, the lower link of said linkage being terminally fixed to said grid member and offset laterally from the upper link, means pivotally attaching said upper horizontal link to and offset from said lower horizontal link, a clamping member secured to said shank portion, a laterally projecting arm fixed to said clamping member, and means slidably and adjustably securing said arm to the upper link of said linkage.

2,665,995

RUST INHIBITING COMPOSITION

John W. Bishop, Plainfield, N. J., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware

No Drawing. Application May 26, 1950, Serial No. 164,627

15 Claims. (Cl. 106—14)

3. A composition, adapted for use as a rust-inhibiting coating for metals, comprising a substantially non-corrosive vehicle in major amount based on the weight of said composition, and a small amount, sufficient to impart rust-inhibiting characteristics to said composition, of a hydrocarbon acid phosphate salt of an alkylol-containing amine having an alkylol group esterified with a hydrocarbon sulfonic acid.

2,665,996

HYDROUS CALCIUM SILICATES AND METHOD OF PREPARATION

George L. Kalousek, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio

No Drawing. Application March 26, 1952, Serial No. 278,749

16 Claims. (Cl. 106—120)

1. An integrated porous hydrous calcium silicate product, consisting essentially of two crystalline structures, one of said crystalline structures having the composition $4CaO.5SiO_2.5H_2O$, and the other crystalline structure having the composition $5CaO.5SiO_2.H_2O$ being present and combined with said first mentioned structure, the said crystalline structures being continuously integrated with each other in random dispersion, and forming a three-dimensional network interspersed with voids, the aggregate volume of the voids being in excess of that of the crystals.

6. The method of forming an integrated hydrous calcium silicate product which comprises providing an aqueous slurry consisting essentially of solids in the form of reactive lime, reactive silica and a suspension agent for said solids in the form of highly spiculated fibers, wherein the initial molar ratio of lime to silica is at least 0.8 but less than 1.0, the amount of water in the mixture being within the range of about 7.0 to .75 times the aggregate weight of the solids, subjecting said slurry to a temperature and pressure in excess of 175° C. and 130 p. s. i. abs. respectively, maintaining said slurry at a temperature and for a period of time necessary to effect substantially quantitative reaction between the reactive lime and silica components, thereby to produce a crystalline end product containing a crystalline compound in integrated form, the percentage of such compound present in said end product being dependent upon the initial molar ratio of lime to silica in the slurry, the one said crystalline compound having the composition $4CaO.5SiO_2.5H_2O$ and drying said product.

8. A reaction product, comprising dispersed finely divided fibers and dispersed thin platy crystals, having a composition of

$$4CaO.5SiO_2.5H_2O$$

and presenting a surface area of at least approximately 50 square meters per gram, said fibers and crystals being in continuous random arrangement relative to each other.

10. Method of making a new hydrous calcium silicate, comprising the steps of dispersing finely divided reactive lime and finely divided reactive silica in the form of quartz, in the molecular proportions of approximately 4 to 5, in water, the water to solids ratio being not more than 26:1 by volume under saturated conditions relative to the lime component in solution, and wherein the dispersion is maintained by finely divided fibers, and subjecting the said dispersion to temperatures within the range from 150° C., to approximately 200° C., while maintaining the dispersion substantially quiescent during the reaction for a period of time varying with respect to temperature, to effect substantially quantitative reaction between the said reactive lime and reactive silica components both to form a hydrous calcium silicate having the formula $4CaO.5SiO_2.5H_2O$ and to integrate the same.

2,665,997

METHOD OF PREPARING HIGHLY REFRACTORY BODIES

Ivor E. Campbell, Gahanna, and Bruce W. Gonser and Carroll F. Powell, Columbus, Ohio, assignors, by mesne assignments, to Fansteel Metallurgical Corporation, North Chicago, Ill., a corporation of New York

No Drawing. Application March 18, 1950, Serial No. 150,543

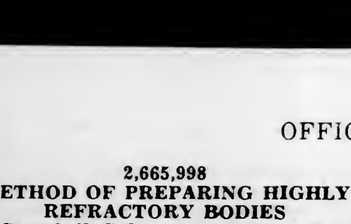
15 Claims. (Cl. 117—49)

1. The method of forming refractory metal bodies resistant to oxidation at temperatures above about 1000° C., which comprises heating a refractory metal body to a temperature of at least the melting point of silicon, depositing silicon on the metal body by passing a mixture of hydrogen and vapors of a silicon halide over the metal body and reacting the deposited silicon with the surface portions of the metal body by maintaining the metal body at the elevated temperature of at least the melting point of silicon, to form a coating on the said body of an alloy or intermetallic compound of the refractory metal and silicon.

2,665,998
METHOD OF PREPARING HIGHLY REFRACTORY BODIES
Ivor E. Campbell, Gahanna, and Bruce W. Gonser and Carroll F. Powell, Columbus, Ohio, assignors, by mesne assignments, to Fansteel Metallurgical Corporation, North Chicago, Ill., a corporation of New York
No Drawing. Application March 18, 1950, Serial No. 150,544
12 Claims. (Cl. 117—49)

1. The method of forming refractory metal bodies resistant to oxidation at temperatures above about 1000° C. which comprises heating the refractory metal body in an inert atmosphere to a temperature between about 950° C. and about 1400° C., depositing silicon on the metal body while maintained at said temperature by passing a mixture of hydrogen and vapors of a silicon halide over the heated metal body, and heating the coated metal body to a temperature above about 1400° C. and for a time sufficient to alloy the silicon with the surface portions of the metal body whereby a surface coating consisting essentially of said alloy is formed on said metal body.

2,665,999
METHOD OF IMPREGNATION
Roland P. Koehring, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application April 18, 1950, Serial No. 156,619, now Patent No. 2,606,831, dated August 12, 1952. Divided and this application December 28, 1951, Serial No. 263,905
5 Claims. (Cl. 117—112)



4. The method of infiltrating a porous iron compact with a copper infiltrant which comprises: providing a relatively porous ferrous bridge member having a melting point above the melting point of the cupreous infiltrant and provided with protuberances along one surface, supporting said bridge member adjacent said compact so that said bridge abuts said compact with only limited spaced regions of contact constituted by said protuberances, disposing a source of cupreous infiltrant adjacent said bridge, and heating the resultant assembly to a temperature sufficient to melt and to diffuse the infiltrant into said bridge member and through said spaced regions of contact into the porous iron compact.

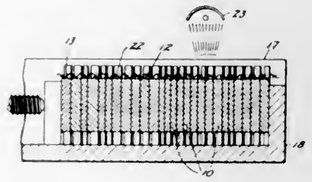
2,666,000
PROCESS FOR CLEANING AUTOMOBILE RADIATORS
Hugh C. De Hoff, Roselle Park, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application October 11, 1950, Serial No. 189,685
1 Claim. (Cl. 134—3)

The process of cleaning the radiator of an automotive type engine comprising the steps of dissolving about one pound of a composition consisting of about equal parts by weight of oxalic acid and ammonium oxalate in water contained in said radiator, operating the engine for a period of about 30 minutes, draining the said solution of oxalic acid and ammonium oxalate, filling the radiator with an aqueous solution of about two ounces of a composition consisting of about equal weight proportions of sodium carbonate and tetrasodium pyrophosphate, and thereafter draining this solution from the radiator.

2,666,001
CHEMICAL METHOD FOR REMOVING RESIDUAL SAND FROM METAL CASTINGS FORMED IN SAND-TYPE MOLDS
William A. Marshall, Chicago, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application June 15, 1950, Serial No. 168,377
11 Claims. (Cl. 134—27)

1. In the chemical cleaning method for removing adhering siliceous particles from metal castings formed in a siliceous refractory nonpermanent type mold wherein said casting is immersed in a liquid bath comprising a strongly acidic solution to effect the removal of the said siliceous particles adhering to the said metal casting, and thereafter removed from said acid bath and washed with a neutralizing solution, the improvement comprising immersing said casting in an aqueous solution of a fluophosphoric acid as said step of immersion in acidic solution.

2,666,002
CONTRASTING COLORS FOR TYPE MATRICES
William Heinecke, New York, N. Y.
Application September 29, 1951, Serial No. 248,957
9 Claims. (Cl. 148—6)



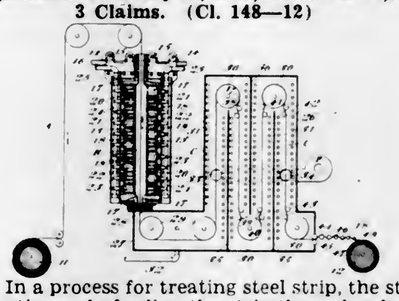
5. A method for darkening the background surfaces of brass type matrix characters comprising arranging a plurality of matrices so that the background surfaces all lie in substantially a common plane, then clamping the matrices tightly together, disposing a dry ribbon impregnated with an organic compound containing the



group on said surfaces, and then applying sufficient heat to the ribbon to decompose at least a part of the compound, whereby a dark coloration is obtained on said surfaces.

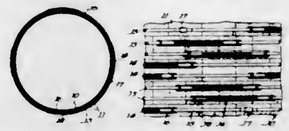
6. An article for use in darkening selected brass matrix surfaces comprising a ribbon of woven glass fibers impregnated with thio-urea, nitrocellulose as a binder to anchor the thio-urea to the fiber and ricinus oil as plasticizer for the nitrocellulose.

2,666,003
TREATING STRIP
Robert S. A. Dougherty, Alan C. Chamberlin, and Henry W. Nieman, Bethlehem, Pa., assignors to Bethlehem Steel Company, a corporation of Pennsylvania
Application February 18, 1949, Serial No. 77,234
3 Claims. (Cl. 148—12)



1. In a process for treating steel strip, the steps of continuously feeding the strip through a heating zone to heat the strip to a temperature not less than 1200° F., continuously feeding the strip thus heated through a cooling zone having a nonoxidizing atmosphere, flexing the strip beyond its elastic limit in the cooling zone while it is at a temperature not lower than 650° F. but at a temperature lower than the critical range, and flexing the strip beyond its elastic limit in the cooling zone after it is cooled below 650° F.

2,666,004
STEEL STRAPPING AND SHIELD
John M. Gerrard, Melrose Park, Ill., assignor to A. J. Gerrard & Company, Melrose Park, Ill., a corporation of Illinois
Application June 6, 1950, Serial No. 166,455
7 Claims. (Cl. 154—44)



1. A building structure, including a supporting structure and insulation therefor, for withstanding expansion and contraction under cyclic changes of temperature, comprising insulation assembled about the periphery of the structure, a plurality of metallic expander bands each provided with a series of corrugations alternating with uncorrugated portions extending circumferentially thereof, said bands being applied under a predetermined pressure about the peripheral surface of a section of the assembled insulation providing a primary stretch to the band and sealed in the stretched position whereby, as the expander bands expand and contract tension is distributed substantially equally throughout the length thereof.

2,666,005
PACKING CORDS, ESPECIALLY ADAPTED TO FUNCTION AS A SEALING GASKET FOR DRUMS, PAILS, AND BARRELS, IN WHICH LARD AND OTHER SHORTENINGS ARE CONFINED FOR SHIPMENT
Onnig M. Norehad, Chicago, Ill.
Application May 10, 1950, Serial No. 161,046
1 Claim. (Cl. 154—53.6)

A packing cord comprising an elongated core formed of compressed paper twisted spirally about its longitudinal axis, a spirally wound inner sleeve surrounding the core in intimate relation with respect to the core and having overlapping edge portions adhesively secured together, and an outer plastic seamless sleeve circumposed on the inner sleeve in intimate relation with the inner sleeve and providing a continuous and uninterrupted cylindrical surface around said inner sleeve.

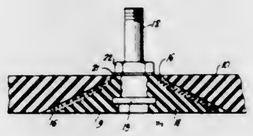


2,666,006
METHOD OF BALLOON CONSTRUCTION
Frank J. La Mere, Kermit F. Johnson, and Otto C. Winzen, Minneapolis, Minn., assignors to General Mills, Inc., a corporation of Delaware
Application April 2, 1948, Serial No. 18,585
15 Claims. (Cl. 154—85)



1. The method of successively joining adjacent thermoplastic sections of a balloon envelope which comprises the steps of: (*a*) arranging two of the sections in face to face relation, (*b*) forming a seam between the sections by application of heat and pressure to soften and fuse the material together, (*c*) applying an adhesive reinforcing tape to the completed seam, (*d*) applying longitudinal tension to said tape and seam after said seam is complete, and (*e*) maintaining said longitudinal tension during subsequent formation of a similar seam between one of said first two sections and another section.

2,666,007
METHOD OF MAKING CURING BAGS
Frank T. Hovey, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application January 3, 1950, Serial No. 136,525
1 Claim. (Cl. 154—85)



The method of making a full-circle tire curing bag having a base portion and a metal valve stem which stem includes a barrel and base portion comprising applying uncured rubber compound to said valve stem base and about said barrel adjacent the valve stem base in substantially conical form with the base of said cone-shaped rubber adjacent said stem base, incorporating a layer of wires having openings therethrough into a sheet of uncured rubber, cutting a patch from the combined sheet of rubber and

layer of wires, forming a hole in the center of said patch adapted to receive said barrel, attaching said patch free of tension to substantially conical surface of the rubber applied to said valve stem and molding and partially vulcanizing said rubber forming a valve stem head, forming a valve stem opening through said bag base, incorporating said valve stem head in said bag base in said opening and molding and vulcanizing the aforementioned elements into a composite whole.

2,666,008
METHODS AND APPARATUS FOR MAKING CONDUCTIVE PATTERNS OF PREDETERMINED CONFIGURATION

Kurt Enslein and Fred J. Haskins, Rochester, N. Y., assignors to Stromberg-Carlson Company, a corporation of New York

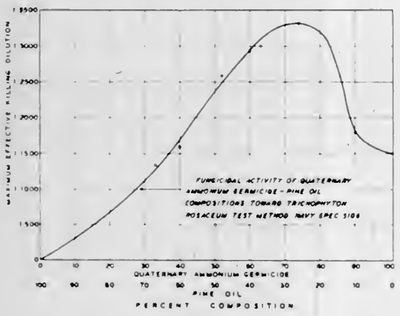
Application August 3, 1950, Serial No. 177,524
15 Claims. (Cl. 154—94)

13. The method of producing a conductive pattern of predetermined configuration on an insulating base member which comprises the steps of, depositing a layer of photosensitive fluorocarbon material on a highly polished stainless steel master base plate, exposing said photosensitive material to actinic radiations in a pattern corresponding to the negative of the eventual conductive pattern, developing said photosensitive material to provide a stencil of fluorocarbon on said master base plate, electro-depositing a layer of conductive material onto the areas of said master plate unmasked by said stencil, coating a surface of said master plate and an insulating base member with an adhesive, pressing said adhesive coated surfaces together, and separating said base member from said master base plate with said conductive layer of said predetermined pattern adhering to said base member.

2,666,009
QUATERNARY AMMONIUM GERMICIDE COMPOSITIONS

Richard D. Stayner, Albany, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application September 5, 1950, Serial No. 183,278
3 Claims. (Cl. 167—25)

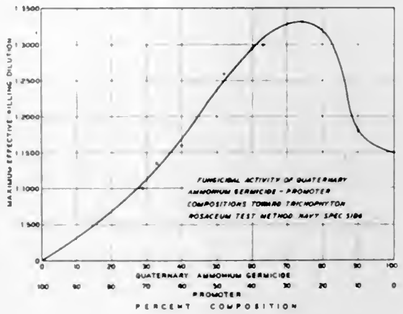


1. A germicidal composition which comprises from 40 to 90% by weight of an N-alkylbenzyl-N,N,N-trialkyl quaternary ammonium chloride and from 10 to 60% by weight of pine oil, said alkyl group on the benzyl nucleus containing from 8 to 18 carbon atoms and said nitrogen alkyl substituents containing no more than a total of 12 carbon atoms.

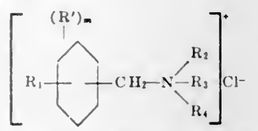
2,666,010
QUATERNARY AMMONIUM GERMICIDAL COMPOSITIONS

Richard D. Stayner, Albany, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application September 5, 1950, Serial No. 183,277
5 Claims. (Cl. 167—30)



1. A germicidal composition which comprises as its active ingredient a substantial proportion of a quaternary ammonium compound having the formula



where R_1 is an alkyl group of 8 to 18 carbon atoms, R' is a member of the group consisting of hydrogen and a methyl radical, m is from 1 to 4, and R_2, R_3 and R_4 are substituents of hydrocarbon structure containing a total of no more than 12 carbon atoms, said quaternary being admixed with a member of the group consisting of octylphenylmonoethyleneglycol ether and octylphenyldiethyleneglycol ether as a promoter, the promoter being present in amounts sufficient to improve the germicidal activity of the quaternary ammonium compound but not to exceed 70 per cent by weight of the composition.

2,666,011

WITHDRAWN

2,666,012
NOSE DROPS

Edgar A. Ferguson, Jr., Brooklyn, N. Y.

No Drawing. Application October 2, 1950, Serial No. 188,063
7 Claims. (Cl. 167—58)

2. Nose drops composition which comprises an isotonic solution of lactalbumin which has been subjected to substantial hydrolysis to yield a hydrolysate initially containing organized protein and therapeutically effective amounts of a plurality of free, simple amino acids, including tryptophane, phenylalanine, leucine and valine, specific in their topical application to alleviate symptoms of irritated mucous membrane, admixed with mucous-membrane-irritating amounts of methionine, histidine and cystine, said hydrolysate being subsequently heat-modified to decrease the organized protein content to less than 1%, and reduce said methionine content to the order of 0.4% to 0.8%, the histidine content to below 1% and the cystine content to below 2%.

2,666,013
PRURITUS THERAPY

Edgar A. Ferguson, Jr., Brooklyn, N. Y.

No Drawing. Application August 25, 1950, Serial No. 181,573
6 Claims. (Cl. 167—63)

3. A new therapeutic composition useful in local topical treatment of pruritus ani which comprises a topical vehicle and lactalbumin which has been subjected to substantial hydrolysis to yield a hydrolysate initially containing organized protein and therapeutically effective amounts of a plurality of free, simply amino acids, including tryptophane, phenylalanine, leucine and valine, specific in their local topical application to alleviate pruritus symptoms, admixed with skin-irritating amounts of methionine, histidine and cystine, said hydrolysate being subsequently heat-modified to decrease the initial organized protein content to less than 1%, and reduce said methionine content to the order of 0.4% to 0.8%, the histidine content to below 1% and the cystine content to below 2%.

2,666,014
PROCESS FOR PRODUCING RIBOFLAVIN

James M. Van Lanen, Karl L. Smiley, and Leonard Stone, Peoria, Ill., assignors to Hiram Walker & Sons, Inc., Peoria, Ill.

No Drawing. Application February 21, 1949, Serial No. 77,694
13 Claims. (Cl. 195—28)

1. The process wherein riboflavin is biologically synthesized, by aerobically cultivating the ascomycete *Ashbya gossypii* in a growth medium containing a fermentable carbohydrate, inorganic nutrient salts and biotin, thiamin and inositol, and also containing a protein hydrolyzate containing a plurality of metabolizable amino acids selected from the group consisting of glycine, alanine, threonine, proline, tryptophane, norleucine, cysteine and cystine, the dicarboxylic amino acid content of said protein hydrolyzate being reduced to an amount of not over 0.05% and being thereby rendered substantially non-inhibitory to vitamin synthesis said protein hydrolyzate being the sole source of proteinaceous material in said growth medium.

2,666,015
BIOCHEMICAL PROCESSES FOR THE 11-HYDROXYLATION OF STEROIDS

Gregory Pincus and Oscar Hechter, Worcester, Mass., assignors to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application August 13, 1949, Serial No. 110,225
3 Claims. (Cl. 195—51)

3. The method of introducing a hydroxyl radical into the 11-position of a steroid selected from the group consisting of 11-desoxycorticosterone and 11-desoxy-17-hydroxycorticosterone which comprises dissolving said steroid in a fluid selected from blood, blood plasma and blood esrum; passing the solution so obtained through a functioning, excised, mammalian adrenal gland; and subsequently isolating the 11-hydroxyl steroids thus produced.

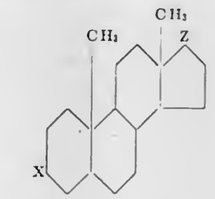
678 O. G.—36

2,666,016
BIOCHEMICAL PROCESSES FOR THE OXYGENATION OF STEROIDS

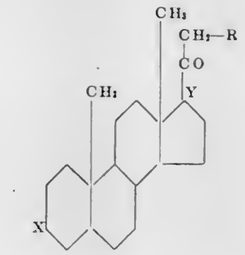
Oscar Hechter, Worcester, Robert P. Jacobsen, Shrewsbury, Roger Jeanloz, Harold Levy, and Gregory Pincus, Worcester, and Victor Schenker, Shrewsbury, Mass., and Charles W. Marshall, Chicago, Ill., assignors to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application January 25, 1951, Serial No. 207,826
11 Claims. (Cl. 195—51)

1. The method of hydroxylating a steroid which comprises adding a member of the group of steroids having one of the following formulas:



and



wherein X and Z are members of the group consisting of hydroxyl and oxo radicals, Y is a member of the group consisting of hydrogen and hydroxyl radicals, and R is a member of the group consisting of hydrogen, hydroxyl and lower aliphatic acyloxy radicals, and wherein said steroid may contain a double bond at position 5, to a fluid selected from blood, blood components, blood substitutes and mixtures thereof with aqueous salt solutions, perfusing a functioning, excised, mammalian adrenal gland with said fluid, said adrenal gland being so incised as to penetrate superficial layers without cutting the medullary layer and being structurally intact, and subsequently isolating the hydroxylated steroids from said fluid.

2,666,017
NUTRIENT MEDIA CONTAINING ANTIFOAMING AGENTS

Henry V. Moss and Roy E. Morse, Anniston, Ala., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application July 14, 1950, Serial No. 173,936
10 Claims. (Cl. 195—100)

1. An aqueous nutrient fermentation medium normally having a tendency to foam excessively and a sufficient amount of an antifoaming agent to render said medium substantially non-foaming, said agent being the condensation product of about 0.75 to about 6 mols of ethylene oxide with 1 mole of a material selected from the group consisting of abietic acid and products containing same.

2,666,018

VITAMIN ASSAY MEDIUM

John F. Roland, Jr., Chicago, and Anthony M. Gross, Oswego, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application March 8, 1947, Serial No. 733,432

2 Claims. (Cl. 195—100)

1. In a process for preparing a vitamin assay medium, the steps of adding ferrous sulfate to an aqueous solution of trypsin hydrolyzed mammalian liver protein, heating the resulting solution to form an insoluble metal salt-protein precipitate, and removing the precipitate thus formed.

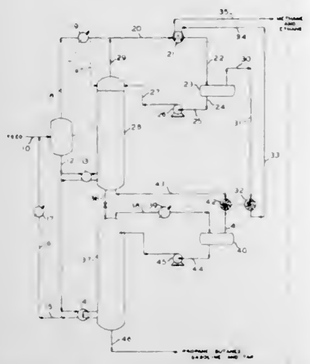
2,666,019

METHOD FOR RECOVERING PROPANE AND HEAVIER HYDROCARBONS

Francis W. Winn, Woodbury, and Lester R. Steffens, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application July 28, 1950, Serial No. 176,286

3 Claims. (Cl. 196—11)



1. A method for removing methane and ethane from a petroleum fraction containing hydrocarbons boiling within the range of gasoline, which comprises introducing said petroleum fraction into a high pressure fractionating zone at the point of minimum temperature therein, passing the overhead gas emitted from said high pressure zone to a condensing zone wherein high boiling components of said overhead gas are liquefied, recycling said liquefied components as reflux to said high pressure fractionating zone, expanding remaining gas with resultant cooling thereof, flowing the resulting cooled gas in indirect heat exchange with the aforementioned condensing zone serving to cool the same, passing the liquid bottoms product of said high pressure fractionating zone into a second fractionating zone maintained at a pressure of at least 200 pounds per square inch less than the pressure of said high pressure fractionating zone, the minimum pressure of said second fractionating zone in turn being about 200 pounds per square inch, withdrawing the vaporous effluent of said second fractionating zone, cooling the same to liquefy the high boiling components thereof, recycling resulting liquid as reflux to said second fractionating zone, compressing remaining vapor in a turbo-compressor driven by the aforesaid overhead gas from said high pressure zone, conducting the resulting gas, heated as a result of compression, to the bottom of said high pressure fractionating zone, withdrawing methane and ethane as overhead from said high pressure fractionating zone and withdrawing heavier hydrocarbons as bottoms product from said second fractionating zone.

2,666,020

SEPARATION OF WAX-LIKE CONSTITUENTS FROM OIL WITH A COMPLEXING AGENT IN THE PRESENCE OF WATER

George B. Arnold, Glenham, Howard V. Hess, Beacon, James K. Truitt, Wappingers Falls, and James W. Fitzwilliam, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application June 7, 1949, Serial No. 97,717

6 Claims. (Cl. 196—14.35)

1. In the separation from a lube oil of constituents which form crystalline complexes with urea, the method which comprises subjecting said lube oil to contact with urea in the presence of water and an added normal paraffin hydrocarbon containing about 7 to 14 carbon atoms per molecule with the result that the complex-forming constituents in the lube oil enter into crystalline complex formation with urea, and separating resulting crystalline complex from the oil.

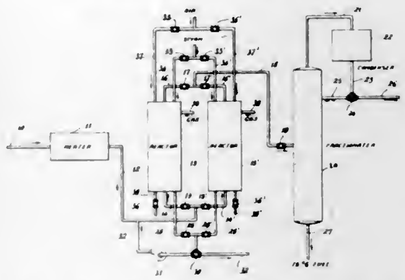
2,666,021

STABILIZATION OF MINERAL OIL FRACTIONS

Daniel Milsom, Maplewood, La., assignor to Cities Service Research and Development Company, New York, N. Y., a corporation of New Jersey

Application August 14, 1951, Serial No. 241,830

12 Claims. (Cl. 196—35)



1. The method of stabilizing catalytically cracked oils which comprises contacting an unstable catalytically cracked oil in the No. 2 fuel oil boiling range with a catalyst comprising aluminum fluoride, at a temperature within about 50° F. of the end boiling point of the oil to be treated.

2,666,022

HYDROCARBON PROCESS FOR REDUCING THE POUR POINT OF A TOPPED CRUDE OIL

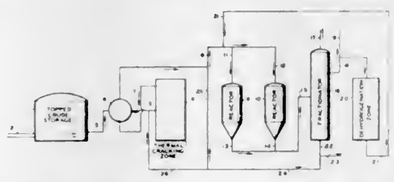
Paul H. Johnson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 27, 1949, Serial No. 135,167

2 Claims. (Cl. 196—49)

1. The process for reducing the pour point of a topped crude oil which comprises thermally cracking said topped crude oil at a temperature within the range of 800 to 1100° F. and at a pressure within the range of 0 to 100 pounds per square inch gauge and converting from 5 to 15 per cent of said topped crude oil to lower boiling hydrocarbons within the gasoline boiling range,

passing the total effluent from said thermal cracking step into contact with a silica-alumina catalyst at a temperature within the range of 650 to 900° F. and at atmospheric pressure to effect a transfer of hydrogen from the higher boiling to the lower boiling components of said effluent, separating from the effluent from the



hydrogen transfer step a highly paraffinic fraction within the gasoline boiling range, dehydrogenating said highly paraffinic fraction to form a highly olefinic fraction, passing said olefinic fraction to the above-named hydrogen exchange step, and recovering from the process a fuel oil having a pour point 10 to 30° F. lower than the pour point of the topped crude oil feed.

2,666,023

ANODIC COATING OF ALUMINUM

Otto Schaaber, Schorndorf, Wurttemberg, Germany, assignor, by mesne assignments, to Siegfried Junghans, Schorndorf, Germany

No Drawing. Application December 30, 1948, Serial No. 68,421

10 Claims. (Cl. 204—39)

3. A process for the production of an oxidic coating upon an aluminum base metal which comprises immersing said aluminum base metal in a substantially water-free fused salt bath essentially consisting of at least one alkali metal nitrate and at least one alkali metal nitrite and supplying an anodizing current to said immersed aluminum base metal which anodizing current periodically varies from a voltage between −2.0 volts and 0 volt to a positive anodizing voltage up to 50 volts, the fused salt bath being maintained at a temperature between 140° C. and the melting point of the aluminum base metal during the treatment with the anodizing current.

2,666,024

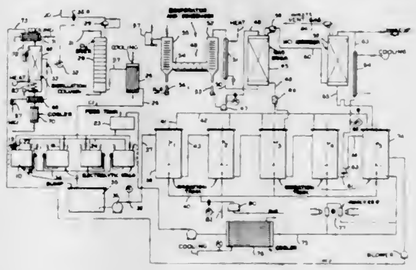
OXIDATION AND CHLORINE RECOVERY PROCESS

Frank S. Low, Rowayton, Conn., and Charles P. Roberts, South Charleston, W. Va., assignors to Food Machinery and Chemical Corporation, New York, N. Y., a corporation of Delaware

Application April 22, 1949, Serial No. 88,954

2 Claims. (Cl. 204—128)

1. In a process for recovery of chlorine values from hydrogen chloride present in the used electrolytic solution of a chlorine cell operating on an aqueous electrolyte containing hydrogen chloride and the chloride of a metal capable of existing in differing ionic valence states, said metal being at least in part reduced during electrolysis from a higher to a lower valence state, the improvement comprising: transferring said cell solution to an oxidizing zone; intimately contacting the cell solution in said oxidizing zone with gas containing elemental oxygen for a time sufficient to substantially effect (1) oxidation of hydrogen chloride with simultaneous formation of water and conversion of metal from a lower to a higher valence state, and (2) volatilization of water from the cell solution; dewatering hydrogen chloride-containing vent gases discharged from the oxidizing zone; withdrawing oxidized cell solution from the oxidizing zone; cooling the withdrawn cell solution to a temperature substantially below that obtaining in the oxidizing



zone; contacting said vent gases with cooled oxidized solution; introducing additional hydrogen chloride into the oxidized cell solution in an amount approximately equal to the amount oxidized in the oxidizing zone; and finally returning the reconstituted cell solution to the chlorine cell.

2,666,025

PROCESS FOR POLYMERIZING VINYL-TYPE COMPOUNDS BY IRRADIATION

Kenzie Nozaki, Richmond, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application May 2, 1949, Serial No. 91,022

15 Claims. (Cl. 204—158)

6. A process for polymerizing a photopolymerizable vinyl-type monomer possessing a terminal methylene group joined through a double bond to an aliphatic carbon atom which is joined through a single bond to a substituent other than hydrogen and through the other single bond to a carbon atom of an organic radical, which comprises irradiating, with light of wave length in a range of 1800 to 7000 Angstroms, an aqueous emulsion consisting essentially of water, an emulsifying agent and the said vinyl-type monomer and containing no material which activates polymerization solely under the influence of light for a short period, removing the light and continuing the polymerization in the dark at a temperature which will not give rise to the formation of new polymer nuclei.

2,666,026

CORROSION INHIBITOR

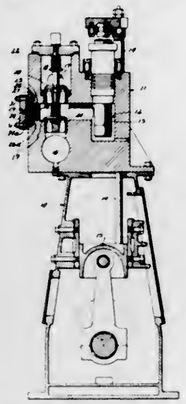
Lloyd T. Gibbs, Tulsa, Okla., assignor to The Aldrich Pump Company, Allentown, Pa., a corporation of Pennsylvania

Application January 6, 1949, Serial No. 69,451

2 Claims. (Cl. 204—197)

2. In a pump adapted for use with corrosive polar fluids and comprising a metallic portion defining a passage for such fluid and a port from said passage to the exterior of the pump, a metallic inhibitor assembly comprising a basket portion extending into said port and in metallic contact with said metallic portion, the basket portion being removably secured in said port to said metallic portion and having an end exposed exteriorly of the pump, said basket being in part defined by a perforate wall dividing

the interior of the basket from said passage, and a member closing the exposed end of the basket,



said basket containing particles of metal anodic to said metallic portion.

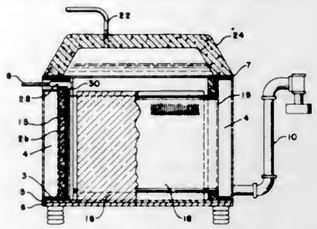
2,666,027
ANODE FOR CATHODIC PROTECTING SYSTEMS
Walter I. Vallett, Detroit, Mich., assignor to The Corrosion Control Company, Midland, Mich., a company of Michigan
Application January 13, 1949, Serial No. 70,670
3 Claims. (Cl. 204—197)



1. An anode assembly for the electrolytic protection of a metal container comprising a plurality of anode segments of a metal having a higher solution potential than the container to be protected, coil-spring connectors interposed between and in axial alignment with the segments and providing the sole mechanical and electrical interconnection therebetween, and means at one end of the segmented anode assembly for connecting same to the container.

2,666,028
ELECTROLYTIC CELL FOR THE ELECTROLYSIS OF BRINE
Christopher C. Silsby, Jr., Euclid, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware
Application July 1, 1950, Serial No. 171,629
3 Claims. (Cl. 204—266)

1. In an electrolytic cell for the electrolysis of brine, said cell having a base member, a frame mounted on said base, said frame having side walls and vertical hollow end sections, said end sections having inner and outer end walls, said walls forming a liquid-containing vessel with said base, regularly spaced anodes mounted in said base parallel to said side walls and vertically disposed within said vessel, hollow foraminous-diaphragm covered cathodes interposed between said anodes and communicating with said hollow end sections through said inner end walls, the improvement which includes an electrically-insulating liquid-impervious material overlaying the areas of said inner end walls exposed to anolyte



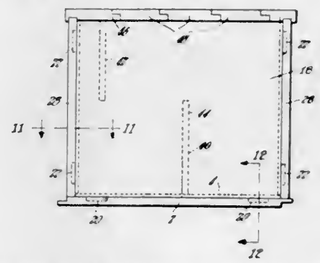
in said vessel, a vertical channel in said electrically insulating material situated substantially equidistant from said side walls of said frame and extending substantially from top to bottom of an inner end wall, and a conduit situated near the top of and opening into said channel for introducing brine into said vessel.

2,666,029
ELECTRODE FOR CHROMIUM PLATING
Lacey Glenn De Quasie and Robert E. Kochs, Rochester, N. Y., assignors to Rochester Lead Works, Inc., Rochester, N. Y., a corporation of New York
Application September 26, 1951, Serial No. 248,348
5 Claims. (Cl. 204—286)



1. A chromium plating anode comprising a one-piece body and a generally U-shaped hook portion containing at least a major proportion of lead, the hook portion having a groove extending longitudinally of its inner face coextensive with and arranged centrally between the side edges of the hook portion, and a copper contact rod located in said groove, said contact rod being coextensive endwise with the hook portion and having approximately one-half its cross-section embedded and secured throughout its length in said groove and approximately one-half its cross-section forming a continuous exposed surface coextensive with the hook portion and projecting laterally beyond the adjacent surfaces of the hook portion, said exposed surface of the copper contact rod having a tapering cross-sectional form affording a surface of limited area for contacting a conducting bar and said copper contact rod imparting increased stiffness and conductivity to said hook portion.

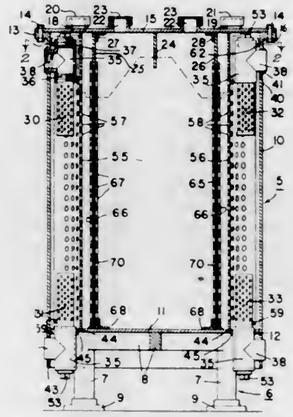
2,666,030
SEPTIC TANK
Andrew P. Blanchard, Ludlow, Mass.
Application June 21, 1952, Serial No. 294,776
2 Claims. (Cl. 210—6)



1. A septic tank construction comprising in combination, a preformed unitary horizontal bottom wall having a central portion provided with an upper face disposed in a plane above the plane of upper faces of longitudinal side and transverse end portions providing horizonal flat side and end rim portions extending outwardly from the sides and ends of the central portion and vertically extending shoulders along the sides and ends of said central portion, said rim portions at the sides and ends of the central portion provided with separate spaced apart elongated downwardly extending rectangular sockets adjacent said shoulders having inner sides disposed in the planes of said shoulders, preformed unitary vertically extending side and end walls having lower edges resting on the side and end rim portions of the bottom wall and provided with lugs depending from said lower edges fitting in said sockets and arranged to hold inner lower portions of said walls against said vertical shoulders, said end walls having vertically extending central portions disposed in planes inwardly of the planes of longitudinal vertical side portions providing flat flanges extending outwardly from opposite vertical sides of the central portions and vertically extending shoulders at opposite vertical sides of said central portion, said flange portions provided with vertically separate spaced elongated outwardly extending sockets adjacent said shoulders having inner sides disposed in the planes of said shoulders, said side walls having vertical end edges against the flat flanges of said end walls and provided with lugs extending outwardly from said edges and fitting in said sockets holding inner portions of said side walls adjacent the edges thereof against said vertical shoulders.

2,666,031
WATER SOFTENING APPARATUS
Hugh R. Carr, Cranford, N. J., assignor to Engineering Equipment Distributors, Inc., Kenilworth, N. J., a corporation of New Jersey
Application April 4, 1950, Serial No. 153,934
6 Claims. (Cl. 210—24)

1. In a water softener apparatus, a vertical cylindrical tank, a pair of upper and lower pipe fittings arranged in vertical spaced relation on diametral sides of the tank, cylindrical perforated strainer casings removably connected to each of said pipe fittings, a pair of screen partitions arranged in said tank in spaced apart relation from said strainer elements and from one another to form a central compartment for said mineral material, a semi-cylindrical perforated partition enclosing each pair of upper and lower strainer elements to form chambers on the outer



and inner sides thereof for receiving coarse and fine gravel and a cylindrical strainer screen removably mounted in each of said strainer casings, said pipe fittings being arranged to provide a diagonal flow path between an opposed pair of upper and lower fittings.

2,666,032
CONTROLLING VISCOSITY OF DRILLING FLUIDS
Walter J. Weiss, Rolling Hills Area, Calif., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application April 11, 1952, Serial No. 281,919
10 Claims. (Cl. 252—8.5)

1. An aqueous high alkalinity drilling mud comprising a hydratable alkaline earth metal clay dispersed in water and at least 0.1% of a viscosity reducing material comprising a derivative of pectin prepared by the action upon pectin of a hot alkali solution, said treatment being continued until the product reaches the condition of calcium insensitivity, said product imparting substantially no increase in viscosity to water solutions thereof, being non-gelling in water and being present in sufficient amount in the drilling mud to substantially decrease the viscosity thereof.

2,666,033
LITHIUM SOAP GREASE CONTAINING METHACRYLATE ESTER POLYMER FOR BEARING NOISE SUPPRESSION
John Perry Dilworth, Fishkill, William J. Finn, Pawling, and Oney P. Puryear, Fishkill, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application April 11, 1951, Serial No. 220,538
8 Claims. (Cl. 252—42)

1. A lubricating grease for anti-friction bearings comprising essentially a lubricating base consisting of at least a major proportion of an oil-soluble high molecular weight high boiling liquid aliphatic dicarboxylic acid ester within the lubricating oil viscosity range and possessing lubricating properties, about 10–25% by weight based on the grease of a lithium soap of soap-

forming fatty material containing at least 50% by weight on the basis of the fatty material of a hydroxy soap-forming material selected from the group consisting of 12-hydroxy stearic acid and hydrogenated castor oil, said soap thickening said lubricant base to a grease-like consistency suitable for ball and roller bearing lubrication, said grease being normally subject to producing a high pitched objectionable noise when employed for the lubrication of a ball bearing rotated at high speed, and about 0.3–5% by weight based on the grase of a polymerized n-alkyl ester of methacrylic acid wherein the said n-alkyl group contains from 8 to 12 carbon atoms, said polymerized ester in 30% solution in toluene having a kinematic viscosity at 100° F. within the range of 80–2000 centistokes and being incorporated in said grease by stirring at a temperature in excess of about 290° F. for a period of time effective to reduce said noise to a satisfactory intensity.

2,666,034

SUBSTITUTED AMMONIUM SALTS

John W. Bishop, Plainfield, N. J., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware

No Drawing. Application August 11, 1950, Serial No. 178,999

13 Claims. (Cl. 252—389)

1. A hydrocarbon acid phosphate salt of an alkylol-containing amine having an alkylol group esterified with a hydrocarbon sulfonic acid.

7. A salt, as defined in claim 1, in admixture with a hydrocarbon acid phosphate.

2,666,035

RECLAIMED SILICONE RUBBER

Charles W. Pfeifer, Troy, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application November 15, 1951, Serial No. 256,604

12 Claims. (Cl. 260—2.3)

1. A composition of matter comprising, by weight, (1) from 50 to 95 per cent of a non-reclaimed, previously unvulcanized methyl polysiloxane convertible by heat to the solid elastic state and (2) from 5 to 50 per cent of a reclaimed, vulcanizable, solid, elastic methyl polysiloxane convertible by heat to the solid, elastic, substantially infusible and insoluble state obtained by comminuting to a finely divided state a solid, elastic methyl polysiloxane which is in at least a partially cured state, and thereafter subjecting the finely divided material in a closed pressure vessel at elevated temperatures to direct contact with pressurized steam until a readily millable and peroxide-vulcanizable product is obtained, both methyl polysiloxanes of (1) and (2) containing an average of from 1.75 to 2.25 methyl groups per silicon atom.

2,666,036

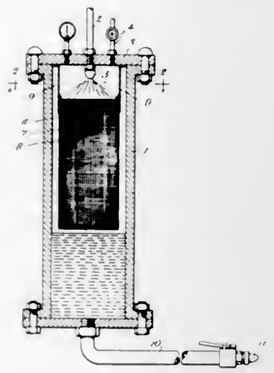
METHODS OF PRODUCING A CELLULAR STRUCTURE IN A PLASTICIZED VINYL ESTER RESIN

Edmund H. Schwencke, New York, N. Y., assignor to Elastomer Chemical Corporation, Newark, N. J., a corporation of New Jersey

Application November 2, 1953, Serial No. 389,678

9 Claims. (Cl. 260—2.5)

9. The method of producing a cellular structure in a polymerized material from the group consisting of polyvinyl chloride and copolymers of vinyl chloride and vinyl acetate, which comprises mixing a plasticizer with the resin in proportions sufficient to form a free flowing, fluid mixture which is readily pourable, introducing said mixture into a closed container, dispersing an inert



gas throughout said mixture by subjecting the mixture to a gas pressure exceeding 100 lbs. per sq. in., and discharging said mixture from said container under the influence of the gas pressure maintained in said container, said mixture being discharged in ungelled state in the form of an expanded, creamy foam.

2,666,037

REDUCING-SUGAR MODIFIED ANILINE-PHENOL-FORMALDEHYDE RESINS

Angelo P. Ingrassia, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a corporation of Delaware

No Drawing. Application March 31, 1952, Serial No. 279,681

12 Claims. (Cl. 260—17.2)

1. A resinous composition consisting essentially of the product of reaction of a partially condensed phenol-formaldehyde resin with the product of reaction of aniline and a reducing sugar.

2,666,038

TEXTILE-FINISHING COMPOSITIONS, FINISHED ARTICLES, AND METHODS OF PRODUCING THEM

John B. Eisen, Waterloo, Wis., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 8, 1950, Serial No. 178,361

20 Claims. (Cl. 260—23)

3. An oil-in-water emulsion comprising 4 to 20 parts by weight of an oil which is predominantly a naphthenic mineral oil, 1 to 20 parts by weight of a water-dispersible polymeric colloid, 1 to 5 parts by weight of an ester of a fatty acid containing at least 12 carbon atoms with a polyhydric alcohol selected from the group consisting of hexahydric alcohols and their anhydro derivatives, the proportion of ester being not less than 3 parts nor more than 5 parts per 16 parts of oil, 1 to 15 parts by weight of an alkaline buffer, and water.

2,666,039

STABILIZING AND PLASTICIZING VINYLIDENE CHLORIDE RESINS

Robert J. Reid, Canal Fulton, and William Mayo Smith, Jr., Cuyahoga Falls, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application December 22, 1952, Serial No. 327,252

6 Claims. (Cl. 260—31.2)

TABLE II

ACID COMPONENT OF CHLOROESTER

ALCOHOL COMPONENT OF CHLOROESTER	Benzoic	p-Chloro-benzoic	o-Chloro-benzoic	2,4-Dichloro-benzoic	2,6-Dichloro-benzoic
	Heat Stability, Appn.	Light Stability, Appn.	Heat Stability, Appn.	Light Stability, Appn.	Heat Stability, Appn.	Light Stability, Appn.	Heat Stability, Appn.	Light Stability, Appn.	Heat Stability, Appn.	Light Stability, Appn.
Phenol	%	%	%	%	%	%	%	%	%	%
p-Chlorophenol	%	%	%	%	%	%	%	%	%	%
o-Chlorophenol	%	%	%	%	%	%	%	%	%	%
2,4-Dichloro Phenol	%	%	%	%	%	%	%	%	%	%
Pentachloro Phenol	%	%	—	—	—	—	—	—	—	—
2,4-Dichloro Phenol	%	%	%	%	%	%	%	%	%	%
2,4,5-Trichloro Phenol	%	%	—	—	—	—	—	—	—	—

1. A plasticised, heat- and light resistant, stably compatible composition comprising a resin selected from the group consisting of homopolymers of vinylidene chloride and copolymers thereof with up to 15%, based on the weight of said copolymers, of other unsaturated compounds copolymerizable therewith, together with from 0.5 to 10%, based on the weight of said resin, of a chlorosubstituted phenyl benzoate selected from the group consisting of the following compounds:

Phenyl p-chlorobenzoate
Phenyl o-chlorobenzoate
p-Chlorophenyl benzoate
p-Chlorophenyl p-chlorobenzoate
p-Chlorophenyl o-chlorobenzoate
p-Chlorophenyl 3,4-dichlorobenzoate
o-Chlorophenyl benzoate
o-Chlorophenyl p-chlorobenzoate
o-Chlorophenyl o-chlorobenzoate
2,4,6-trichlorophenyl benzoate
2,4,6-trichlorophenyl p-chlorobenzoate
2,4,6-trichlorophenyl o-chlorobenzoate
2,4,6-trichlorophenyl 3,4-dichlorobenzoate
2,4,6-trichlorophenyl 2,4-dichlorobenzoate
Pentachlorophenyl benzoate

2,666,040

HEAT STABILIZATION OF VINYLIDENE CHLORIDE RESINS

Chris E. Best, Franklin Township, Summit County, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application February 20, 1953, Serial No. 338,159

4 Claims. (Cl. 260—31.8)

1. A heat-stabilized composition comprising a crystalline resin selected from the group consisting of polymers of vinylidene chloride and copolymers thereof with other ethylenically unsaturated compounds copolymerizable therewith, said copolymers containing at least 80% of vinylidene chloride copolymerized therein, together with from 0.5 to 4.0% of pentachlorophenoxy propene oxide homogeneously compounded therewith, said percentages being on the basis of the weight of said resin.

2,666,041

SILICONE RUBBERS WITH IMPROVED COMPRESSION SET

Charles W. Pfeifer, Troy, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application April 3, 1952, Serial No. 280,369

24 Claims. (Cl. 260—37)

1. A curable composition of matter comprising (1) an organopolysiloxane convertible to the cured, solid, elastic state, the organic radicals of the aforesaid organopolysiloxane being hydrocarbon radicals attached to silicon by carbon-silicon linkages, and (2) from 0.25 to 10 percent, by weight, of an additive selected from the class consisting of quinones, naphthoquinones, alkylated quinones, halogenated quinones, alkylated naphthoquinones, halogenated naphthoquinones, and hydrocarbon monoethers of hydroquinone, the aforesaid weight of the additive being based on the weight of the organopolysiloxane.

2,666,042

PROCESS FOR PREPARING SEGMENTED COPOLYMERS

Kenzie Nozaki, El Cerrito, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application June 13, 1952, Serial No. 293,430

16 Claims. (Cl. 260—45.5)

1. A process for copolymerizing a special type of monoethylenically unsaturated monomer having a terminal methylene group joined through an ethylenic linkage to a carbon atom which is joined to another substituent other than hydrogen and to a carbon atom of an organic radical with at least one dissimilar polymerizable monomer containing a >C=C< group which comprises heating the above-described special type of monoethylenically unsaturated monomer in a liquid reaction mixture which is a relatively poor solvent for the polymer of the said special monomer at a temperature above 90° C. but below the temperature at which substantial decomposition of the monomer occurs for a short period, and thereby effecting the formation of long-lived polymer nuclei of the said special type of monoethylenically unsaturated monomer, lowering the temperature to a temperature below 90° C. but above about −10° C. and thereby arresting further formation of any substantial quantity of new polymer nuclei and continuing the polymerization at that temperature until substantially all of the said special type of monoethylenically unsaturated monomer has been polymerized, and then adding the dissimilar monomer containing the >C=C< group and continuing the polymerization until at least a substantial part of that monomer has been polymerized.

2,666,043

VULCANIZATION OF RUBBER

Edward L. Carr and George E. P. Smith, Jr., Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Original application March 17, 1951, Serial No. 216,252. Divided and this application March 31, 1952, Serial No. 281,661

9 Claims. (Cl. 260—79.5)

7. The method of vulcanizing rubber which includes heating rubber and sulfur in the presence of a small amount of a substance selected from

the group consisting of N-cyclohexyl-2-thiazole sulfenamide and N-sec-amyl-2-thiazole sulfenamide.

2,666,044

ALKYL ACRYLATE/N-HYDROCARBON-SUBSTITUTED ACRYLAMIDE/UNSATURATED TERTIARY AMINO COMPOUND COPOLYMERS

Willard E. Catlin, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 9, 1951, Serial No. 214,854

6 Claims. (Cl. 260—80.5)

1. A lubricating oil-soluble copolymer, the polymeric components of which essentially consist of, by weight of the copolymer, 55%–97.5% of a polymerized compound from the group consisting of the acrylic and alpha-alkyl substituted acrylic esters of saturated aliphatic alcohols containing from 12 to 18 carbon atoms, inclusive; 2%–15% of an N-aryl-substituted amide of an acid from the group consisting of acrylic and alpha-alkyl substituted acrylic acids, said N-hydrocarbon substituent being free of non-benzenoid unsaturation; and 0.5%–20% of a polymerized ethylenically unsaturated compound containing a basic tertiary amino group and being free of reactive hydrogens.

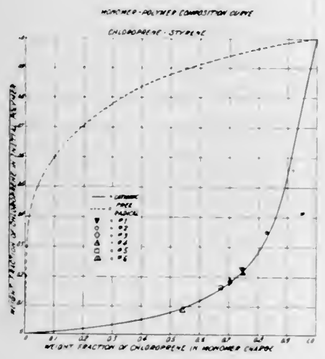
2,666,045

COPOLYMERS OF STYRENE AND CHLOROPRENE PREPARED BY CATIONIC CATALYSIS

Frederick C. Foster, Canal Fulton, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application August 19, 1949, Serial No. 111,226

1 Claim. (Cl. 260—87.5)



A process for producing a polymer composed of 10% chloroprene and 90% styrene, which comprises copolymerizing styrene and chloroprene with a cationic catalyst, employing 55 parts by weight of chloroprene and 45 parts by weight of styrene in the initial charge, and adding increments of styrene to the charge during the polymerization in amounts such that the total cumulative weight S_1 of the styrene added up to any given time is related to the weight P of the polymer formed, substantially in accordance with Table II.

2,666,046

COPOLYMER MANUFACTURE

Joseph F. Nelson, Rahway, Robert F. Leary, Cranford, and Lester Marshall Welch, Madison, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 22, 1950, Serial No. 202,424

10 Claims. (Cl. 260—88.1)

8. Product consisting essentially of a mixture of three different fractions of high molecular weight copolymers of a lower aliphatic monoolefin with a polymerizable mono-olefinic compound containing a cyclic nucleus, said product having an average of about 40 to 70% of combined cyclic constituent and having an average intrinsic viscosity above 0.5, fraction A constituting about 30 to 60% by weight of the entire mixture and having an average of about 35 to 75% of the over-all average per cent of combined cyclic constituent, fraction B constituting about 15 to 55% of the entire mixture and having an average of about 115 to 135% of the over-all average per cent of combined cyclic constituent, fraction C the balance of the composition of about 5 to 35% by weight, having about 90 to 140% of the over-all average per cent of combined cyclic constituent, and there being present in the over-all composition not more than a minor amount of copolymer molecules having the same amount of combined cyclic constituent as in the average of the entire composition.

2,666,047

CHROMATE-SULFITE REDOX - INITIATED AQUEOUS POLYMERIZATION OF VINYL CHLORIDE

George J. Koch, Jr., Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application November 30, 1950, Serial No. 198,496

10 Claims. (Cl. 260—92.8)

1. The method of polymerizing vinyl chloride which includes the steps of dispersing monomeric vinyl chloride in an aqueous medium containing a redox catalyst system composed of chromate ions and sulfite ions, and recovering a vinyl chloride polymer from said medium.

2,666,048

SEPARATION OF LOW MOLECULAR WEIGHT HYDROCARBONS FROM HYDROCARBON MIXTURES WITH A COMPLEXING AGENT

James W. Fitzwilliam, Beacon, and George B. Arnold, Glenham, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application August 10, 1949, Serial No. 109,614

2 Claims. (Cl. 260—96.5)

1. In the separation of low molecular weight hydrocarbons containing between 2 and 7 carbon atoms per molecule from a substantially wax-free liquid hydrocarbon mixture containing said C_2 to C_7 hydrocarbons in admixture with normally liquid hydrocarbons by contact with an organic compound capable of forming a crystalline complex with said low molecular weight hydrocarbons and selected from the group consisting of urea and thiourea, said complex being relatively unstable at temperatures in the range of normal room temperature and higher, the method which comprises subjecting said C_2 to C_7 hydrocarbon-containing mixture to contact with said agent in the presence of an added normally solid paraffin hydrocarbon, effecting said contact at a temperature between 70 and 125° F. and in the presence of at least a small amount of a polar solvent liquid, forming a crystalline complex comprising said low molecular weight hydrocarbons, separating said complex from said mixture at a temperature between 70 and 125° F. and recovering said low molecular weight hydrocarbons from said complex.

2,666,049

METHOD OF MANUFACTURING PROTEIN

Stewart Rowe, Cincinnati, Ohio, assignor, by mesne assignments, to The Buckeye Cotton Oil Company, Memphis, Tenn., a corporation of Ohio

No Drawing. Application September 19, 1951, Serial No. 247,386

6 Claims. (Cl. 260—123.5)

1. In the process of preparing a substantially unhydrolyzed protein, which process comprises extracting the protein from a substantially oil-free proteinaceous seed material with an aqueous sulfite-containing solution, separating the protein-containing solution from insoluble residue and precipitating the protein from said solution, the steps of subjecting the solution containing extracted protein to a temperature within the range from about 150° to about 212° F. at any time prior to precipitation of the protein, and cooling the protein-containing solution to a temperature not substantially in excess of 120° F. before precipitating the protein therefrom.

2,666,050

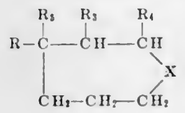
SUBSTITUTED AZACYCLOALKANES AND PROCESS OF PRODUCING THEM

Julius Diamond, Philadelphia, and William F. Bruce, Havertown, Pa., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 3, 1952, Serial No. 297,185

14 Claims. (Cl. 260—239)

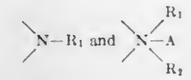
1. A compound having the formula



wherein



stands for a member of the group consisting of



wherein R_1 represents a lower alkyl while R_2 represents a member of the group consisting of hydrogen and lower alkyl, and A stands for an anion, R stands for aryl, R_3 and R_4 each stand for a member of the group consisting of hydrogen and lower alkyl, and R_5 represents a member selected from the group consisting of CN, —COO·lower alkyl and —CO·lower alkyl.

2,666,051

N-ACYL DERIVATIVES OF IMINODIBENZYL

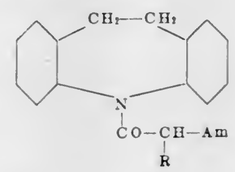
Franz Häfliger and Walter Schindler, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application July 9, 1952, Serial No. 298,010

Claims priority, application Switzerland July 11, 1951

6 Claims. (Cl. 260—239)

1. An N-acyl derivative of iminodibenzyl corresponding to the formula:



wherein

R represents a member selected from the group consisting of hydrogen and lower alkyl radicals and

Am represents a member selected from the group consisting of the radical of a secondary amine consisting of NH and two lower aliphatic hydrocarbon radicals, the radical of a tri-(lower alkyl)-ethylene diamine, and the radical of an alkylene imine having 5–6 ring members.

2,666,052

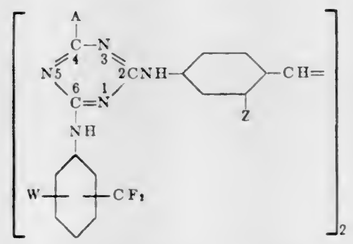
TRIAZINE FLUORESCENT AGENTS

William W. Williams, Easton, Pa., William E. Wallace, Rensselaer, N. Y., and Harlan B. Freyermuth, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 26, 1951, Serial No. 208,056

6 Claims. (Cl. 260—247.1)

6. A compound which in the form of the free acid has the formula



wherein A represents a member of the group consisting of chlorine and bromine and primary alkylamino in which the alkyl group has from 1–18 alkyl carbon atoms, secondary alkylamino in which the alkyl groups have 1–5 alkyl carbon atoms, primary monocyclic arylamino, N-alkylanilino in which the alkyl group has from 1 to 4 alkyl carbon atoms and morpholine radicals and W represents a member of the group consisting of hydrogen, alkoxy, aryloxyl, alkyl, halogen, cyano and trifluoroalkyl and Z represents a member of the group consisting of COOH or SO_3H.

2,666,053

1-ISONICOTINYL-2,2-DISUBSTITUTED HYDRAZINES

Herman Herbert Fox, Passaic, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application November 3, 1951, Serial No. 254,801

7 Claims. (Cl. 260—247.2)

1. A compound selected from the group consisting of 1-isonicotinyl-2,2-di-lower alkyl hydrazine, 1-isonicotinyl - 2,2 - diphenylhydrazine, 1-isonicotinyl-2,2-pentamethylenehydrazine, and 1-isonicotinyl - 2,2 - (β,β'-oxydiethylene) hydrazine, and the acid addition salts thereof.

2,666,054

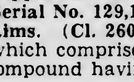
SUBSTITUTED PYRAZINES AND METHOD OF PREPARING THE SAME

Sidney R. Safir, River Edge, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

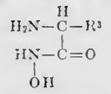
No Drawing. Application November 23, 1949, Serial No. 129,190

8 Claims. (Cl. 260—250)

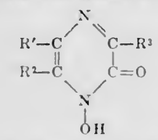
3. A method which comprises mixing together in a solvent a compound having the formula:



in which R′ and R^2 are lower alkyl radicals and a compound having the formula:



in which R^3 is a lower alkyl radical, whereby compounds having the general formula:



in which R′, R^2 and R^3 are as defined above, are produced and recovered.

7. A 1 - hydroxy - 2 - keto - 3 - lower alkyl-1,2-dihydropyrazine-5,6-di-monocyclic aromatic hydrocarbon.

2,666,055

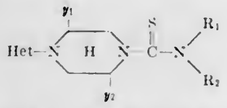
1-THIOCARBAMYL-4-HETEROCYCLIC PIPERAZINES

Edward A. Conroy, Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 27, 1952, Serial No. 317,150

7 Claims. (Cl. 260—256.5)

1. A heterocyclic thiocarbamyl piperazine of the formula:



wherein y_1 and y_2 are selected from the group consisting of hydrogen and methyl, Het is a heterocyclic radical selected from the group consisting of the pyridyl, pyrimidyl, pyrazinyl and thiazolyl radicals, the bond from the nitrogen in the piperazine ring to the Het radical being to a carbon adjacent to a nitrogen in said Het radical, R_1 is hydrogen and R_2 is selected from the group consisting of hydrogen, lower alkyl, lower alkenyl and phenyl radicals.

2,666,056

2-ALKOXYHEXAHYDROPYRIMIDINE - 4,6 - DIONE DERIVATIVES AND PROCESS OF PREPARING SAME

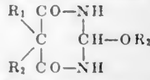
William Robert Boon and Charles Henry Vasey, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application March 31, 1952, Serial No. 279,686

Claims priority, application Great Britain April 6, 1951

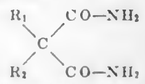
2 Claims. (Cl. 260—260)

1. New 2-alkoxy-hexahydropyrimidine-4,6-dione derivatives of the formula

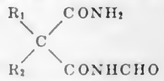


wherein R_1 stands for a phenyl radical, R_2 stands for an alkyl radical of not more than 3 carbon atoms, and R_3 stands for a radical selected from the group consisting of alkyl and aralkyl radicals.

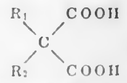
2. A process for the manufacture of the 2-alkoxy - hexahydropyrimidine-4,6-dione derivatives of claim 1, which comprises reacting a compound selected from the group consisting of diamides of the formula



N-formyl derivatives of the formula



and esters of malonic acid derivatives of the formula



wherein R_1 and R_2 have the meaning stated in claim 1, with a member of the group consisting of formic acid esters, alcoholic solutions of alkali metal alkoxides and formamidine, said reaction being effected with (*a*) a formic acid ester and in the presence of an alkali metal alkoxide condensing agent when said compound is a diamide, (*b*) an alcoholic solution of an alkali metal alkoxide when said compound is an N-formyl derivative, and (*c*) a formamidine and in the presence of an alkali metal alkoxide condensing agent when said compound is an ester.

2,666,057

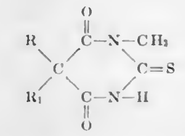
SUBSTITUTED THIOBARBITURIC ACIDS AND SALTS THEREOF

Wilbur J. Doran, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application April 4, 1952, Serial No. 280,653

6 Claims. (Cl. 260—260)

1. A compound chosen from the group consisting of thiobarbituric acids represented by the formula



wherein R is a member of the group consisting of ethyl and allyl radicals and R_1 is a member of the group consisting of 1-ethylpropyl and 1-methylbutyl radicals; and their pharmaceutically useful salts.

2,666,058

UNDECYLENIC ACID ESTERS OF 8-HYDROXYQUINOLINES

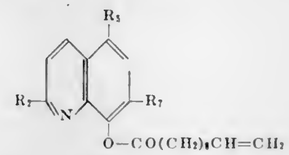
Robert Neher, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application May 14, 1951, Serial No. 226,271

Claims priority, application Switzerland May 16, 1950

6 Claims. (Cl. 260—286)

1. A member selected from the group consisting of the undecylenic acid esters of 8-hydroxyquinolines, of the formula



and the acid addition salts thereof, R_2 being a member selected from the group consisting of hydrogen and methyl, and each of R_5 and R_7 being a member selected from the group consisting of hydrogen, chlorine and iodine.

2,666,059

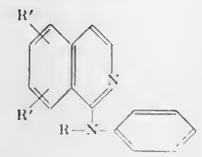
ANILINOISOQUINOLINES AND PROCESSES OF PREPARING THE SAME

Selby B. Davis, Greenwich, and Stuart D. Willson, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 11, 1950, Serial No. 178,988

15 Claims. (Cl. 260—288)

1. Compounds of the group consisting of those having the general formula:



in which R is a member of the group consisting of hydrogen and lower alkyl radicals and R′ is selected from the group consisting of hydrogen, and lower alkoxy radicals.

2,666,060

1,3-BISAMINOALKYL-3-PHENYL-2,5-DIOXO-PYRROLIDINES

Ernst Sury, Basel, and Karl Hoffmann, Binningen, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application September 8, 1952, Serial No. 308,521

Claims priority, application Switzerland September 11, 1951

13 Claims. (Cl. 260—294.7)

1. A compound selected from the group consisting of 3-phenyl-1,3-bis-[di-(lower-alkyl)-amino-lower alkyl] - 2,5 - dioxo-pyrrolidines, 3-phenyl-1,3 - bis - (piperidino - lower - alkyl) - 2,5-dioxo-pyrrolidines, the bis-acid-addition-salts and therapeutically applicable bis-lower-alkyl quaternary ammonium salts thereof.

2,666,061

METHOD OF PREPARING PYRIDOXAL PHOSPHATE

Stanton A. Harris, Westfield, and Andrew N. Wilson, Colonia, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application January 20, 1951, Serial No. 207,056

8 Claims. (Cl. 260—297)

1. The process for preparing pyridoxal phosphate which comprises contacting an acidic aqueous solution of pyridoxamine phosphate with activated charcoal.

2,666,062

OPTICAL BLEACHING AGENTS CONTAINING TWO 1:2:3-TRIAZOLE RINGS

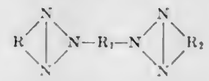
Ernst Brunner, Wilmslow, and Frederic William Hindes, Upper Mill, England, assignors to The Clayton Aniline Company Ltd.

No Drawing. Application January 11, 1952, Serial No. 266,113

Claims priority, application Switzerland January 22, 1951

12 Claims. (Cl. 260—308)

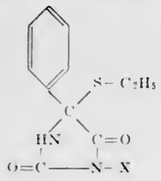
1. As an optical bleaching agent a compound which exhibits a blue to violet fluorescence in ultra-violet light and which, when applied thereto, improves the white content of undyed materials and the purity of color of dyed materials, said compound containing two 1:2:3-triazole rings and corresponding to the general formula



in which R and R_2 each represent an aromatic carbocyclic radical which contains at most two carbocyclic rings and in which two vicinal carbon atoms of a six-membered aromatic ring form part of the 1:2:3-triazole rings and which radical is free from groups imparting dyestuff characteristics, and R_1 represents an aromatic radical selected from the group consisting of phenyl and naphthyl radicals free from groups imparting dyestuff characteristics.

2,666,063
MERCAPTOHYDANTOINS
James J. Spurlock, Denton, Tex.
No Drawing. Application September 28, 1951, Serial No. 248,863
4 Claims. (Cl. 260—309.5)

4. A compound having the formula



wherein X is a radical of the group consisting of hydrogen, alkali metal, alkaline earth metal, and lower alkanolamine radicals.

2,666,064
MANUFACTURE OF 3-(α-PHENYL-β-ACETYLETHYL)-4-HYDROXYCOUMARIN
Donald F. Starr, Montclair, and Karl K. Haber, Jersey City, N. J., assignors to S. B. Penick & Company, Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application January 25, 1952, Serial No. 268,350
15 Claims. (Cl. 260—343.2)

1. In the manufacture of 3-(α-phenyl-β-acetylethyl)-4-hydroxycoumarin by condensation of 4-hydroxycoumarin with benzalacetone the improvement which comprises: heating the reactants dispersed in water containing a compound selected from the group consisting of ammonia and organic amines.

2,666,065
PREPARATION OF 2-ALKOXY-2-ALKYLTETRAHYDROFURANS
Samuel Swadesh, Maywood, Ill., assignor to The Quaker Oats Company, Cook County, Ill., a corporation of New Jersey
No Drawing. Application December 15, 1950, Serial No. 201,074
13 Claims. (Cl. 260—347.8)

1. A process for the production of a 2-alkoxy-2-alkyltetrahydrofuran which comprises the hydrogenation of a 2-alkylfuran at elevated temperatures and under super-atmospheric pressures in the presence of a nickel catalyst, a saturated aliphatic alcohol containing not more than 4 carbon atoms and an acid soluble in said alcohol.

2,666,066
ETHYLENEDIAMINE SALTS OF CYCLOPENTANOPOLYHYDROPHENANTHRENE - 3 - MONOSULFATES
Richard B. Hasbrouck, Waukegan, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
No Drawing. Application September 28, 1951, Serial No. 248,892
10 Claims. (Cl. 260—397.4)

1. A therapeutic compound selected from the group consisting of ethylenediamine estrone-3-monosulfate, ethylenediamine estradiol-3-monosulfate, ethylenediamine equilin-3-monosulfate and ethylenediamine equilenin-3-monosulfate.

2,666,067
SIMULTANEOUS OXIDATION AND HALOGENATION OF STEROIDS
Arthur R. Hanze and Robert H. Levin, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application October 3, 1951, Serial No. 249,617
18 Claims. (Cl. 260—397.4)

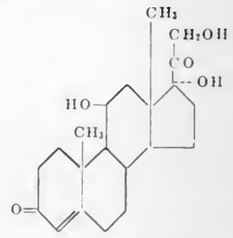
1. A process for the concurrent oxidation and halogenation of a 21 - acyloxy - 3,17 - dihydroxypregnane - 11,20 - dione to a 4 - halo - 21-acyloxy - 17 - hydroxypregnane - 3,11,20 - trione, which comprises: mixing (a) a reagent selected from the group consisting of N-bromoacetamide, N - bromosuccinimide, N - chlorosuccinimide, 3-bromo - 5,5 - dimethylhydantoin, 1,3 - dibromo-5,5 - dimethylhydantoin, and (b) a 21 - acyloxy-3,17 - dihydroxypregnane - 11,20 - dione, wherein the acyloxy group contains up to and including eight carbon atoms, in an organic solvent which is not subject to oxidation or halogenation under the conditions of the reaction to cause conversion of the three-hydroxy group of the steroid nucleus to a three-keto group and to cause halogenation at carbon atom four of the steroid nucleus, and separating the 4 - halo - 21-acyloxy - 17 - hydroxy - pregnane - 3,11,20-trione thus produced.

2,666,068
HALOGENATION OF STEROIDS
Arthur R. Hanze and Robert H. Levin, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application October 15, 1951, Serial No. 251,451
15 Claims. (Cl. 260—397.4)

1. A process for the halogenation of a 21-acyloxy-17α-hydroxypregnane-3,11,20-trione to produce a 4-halo-21-acyloxy-17α-hydroxypregnane-3,11,20-trione by reaction therewith of a halogenating agent which consists in mixing such halogenating agent and a 21-acyloxy-17α-hydroxypregnane-3,11,20-trione in tertiary butyl alcohol containing up to about eighteen per cent water by volume.

2,666,069
METHOD OF PREPARING Δ^4-PREGNENES
Seymour Bernstein and Rose Mary Antonucci, Pearl River, and Milton D. Heller, Monsey, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 4, 1951, Serial No. 259,903
4 Claims. (Cl. 260—397.4)

1. A method of preparing the compound having the formula:



which comprises reacting Δ^5-pregnene-11β,17α,21-triol-3,20-dione diethylene ketal with water in the presence of a solvent and a mineral acid and recovering said compound therefrom.

2,666,070
11α-HYDROXYPROGESTERONE AND ESTERS THEREOF
Herbert C. Murray and Durey H. Peterson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application February 19, 1952, Serial No. 272,505
7 Claims. (Cl. 260—397.4)

1. 11α-hydroxyprogesterone.

2,666,071
11α-HYDROXY-17α-PROGESTERONE AND ESTERS THEREOF
Herbert C. Murray, Hickory Corners, and Durey H. Peterson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application July 1, 1952, Serial No. 296,736
12 Claims. (Cl. 260—397.4)

1. A compound selected from the group consisting of 11α-hydroxy-17α-progesterone and 11α-acyloxy-17α-progesterone wherein acyloxy is a hydrocarbon-carbonyloxy radical containing less than nine carbon atoms.

2,666,072
HALOGENATION AND OXIDATION OF STEROIDS
Arthur R. Hanze and Robert H. Levin, Kalamazoo Township, Kalamazoo County, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application August 13, 1952, Serial No. 304,224
14 Claims. (Cl. 260—397.4)

1. A process for the concurrent oxidation and halogenation of a 21 - acyloxy - 3,17 - dihydroxypregnane-11,20-dione to a 4-halo-21-acyloxy-17-hydroxypregnane - 3,11,20 - trione, which comprises: mixing a hypohalous acid selected from the group consisting of hypobromous acid and hypochlorous acid and a 21-acyloxy-3,17-dihydroxypregnane-11,20-dione, wherein the acyloxy group contains up to and including eight carbon atoms, in an organic solvent, which is non-reactive with the reactants and reaction products under the conditions of reaction, to cause conversion of the three-hydroxy group of the steroid nucleus to a three-keto group and to cause halogenation at carbon atom four of the steroid nucleus.

2,666,073
PROCESS FOR THE MANUFACTURE OF N¹-ACYLATED AMINOARYLSULFONAMIDES
Josef Matzke, Linz (Donau), Austria, assignor to Osterreichische Stickstoffwerke Aktiengesellschaft, Linz (Donau), Austria, an Austrian joint stock company
No Drawing. Application January 4, 1952, Serial No. 265,053
Claims priority, application Austria January 19, 1951
8 Claims. (Cl. 260—397.7)

1. A process for making N¹-acylated 4-aminoaryl sulphonamides which have a free primary amino group attached directly to the aryl radical, comprising the steps of dissolving 4-aminoaryl sulphonamide in an alkaline medium, reacting said dissolved 4-aminoaryl sulphonamide in a single stage with an anhydride of a monocarboxylic acid, while maintaining the pH of the reaction mixture between 9 and 14 during the entire reaction, and separating the reaction product therefrom.

2,666,074
REFINING FATTY OILS
Fred S. Sadler, West Chester, Pa., assignor to The Sharples Corporation, a corporation of Delaware
No Drawing. Application March 29, 1951, Serial No. 218,275
10 Claims. (Cl. 260—424)

1. A process for treating a gum-containing fatty oil which comprises admixing with said oil an aqueous solution of a polybasic aliphatic acid selected from the group consisting of citric, tartaric, maleic, malic, oxalic, itaconic, aconitic, tricarballylic, fumaric, succinic, glutaric and adipic acids, the amount of said aqueous solution thus admixed with said oil being such that the water thus added to said oil is between approximately 0.1 and 0.5% by weight of said oil and is approximately just sufficient to chemically combine with the gums contained in said oil, said aqueous solution being of a concentration in polybasic aliphatic acid such that the amount of acid on a dry basis thus admixed with the oil is at least 0.01% by weight of said oil, and thereafter refining said oil with an alkaline refining agent.

2,666,075
PROCESS FOR THE PRODUCTION OF THE DIZINC SALT OF HYDROXYMETHANE SULFINIC ACID
Alfons Janson, Ludwigshafen (Rhine-Oppau), Germany, assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany
No Drawing. Application November 7, 1951, Serial No. 255,320
Claims priority, application Germany November 11, 1950
7 Claims. (Cl. 260—429)

1. A process for the production of the dizinc salt of hydroxymethane sulfinic acid which comprises reacting the sodium salt of hydroxymethane sulfinic acid in aqueous solution with the equivalent amounts of a zinc salt and a base and separating the dizinc salt of hydroxymethane sulfinic acid thus formed.

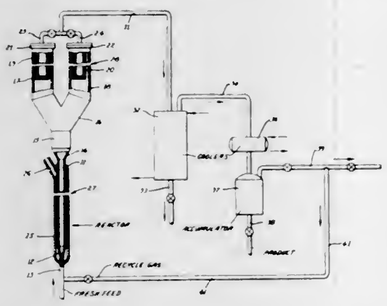
2,666,076
PREPARATION OF ALUMINUM ALCOHOLATE
Walter A. Rex and Raymond W. Winkler, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application April 24, 1952, Serial No. 284,126
7 Claims. (Cl. 260—448)

1. A process for making an aluminum alcoholate from alcohol and metallic aluminum which comprises feeding granules of aluminum to an activation zone containing a liquid pool of cool activating solution, removing activated aluminum from the liquid pool and passing the removed aluminum in an oxygen-free inert atmosphere into a reaction zone containing a pool of liquid aliphatic alcohol at a temperature of about 200–300° F., and removing an alcoholic solution of aluminum alcoholate from the reaction zone.

2,666,077
PROCESS FOR HYDROGENATION OF CARBON MONOXIDE
Henry G. McGrath, Elizabeth, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application January 31, 1948, Serial No. 5,572
10 Claims. (Cl. 260—449.6)

1. The starting-up procedure for the hydrogenation of carbon monoxide to produce normally

liquid organic compounds in the presence of a fluidized finely divided contact material comprising freshly prepared and reduced elementary iron, which comprises initially contacting said contact material with a gaseous mixture containing hydrogen and between about 5 and about



10 volume per cent carbon monoxide at a temperature between about 590° F. and about 700° F., at a pressure between about atmospheric and about 600 pounds per square inch gage and at a space velocity between about 100 and about 5000 v./hr./v.

2,666,078

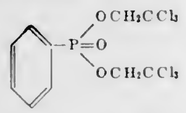
BIS-TRICHLOROETHYL BENZENE PHOSPHONATE

Clarence N. Ferguson, Chicago, Ill., assignor to Arvey Corporation, a corporation of Illinois

No Drawing. Application May 16, 1952, Serial No. 288,299

1 Claim. (Cl. 260—461)

As a new composition of matter



2,666,079

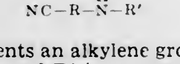
CYANOALKYLAMMONIUM SALTS OF PENTACHLOROPHENOL

Marion W. Harman, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

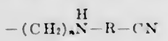
No Drawing. Application May 16, 1952, Serial No. 288,342

9 Claims. (Cl. 260—465)

1. A salt of pentachlorophenol and a cyanoalkylamine of the structure



where R represents an alkylene group of less than 5 carbon atoms and R′ is an organic substituent containing less than 13 carbon atoms selected from the group consisting of amino substituted alkyl groups, open chain hydrocarbon groups, alicyclic groups, aralkyl groups and



groups where R has the same significance and *n* is an integer at least two but less than seven.

2,666,080

METHOD OF PRODUCING PROTEIN HYDROLIZATE FROM POTATOES AND POTATO WASTE

Paul A. Xander, Nescopeck, Pa., assignor to Wise Potato Chip Co., a corporation of Pennsylvania

No Drawing. Application November 3, 1950, Serial No. 194,036

4 Claims. (Cl. 260—527)

1. A process for producing protein hydrolizate from potatoes and potato waste which comprises forming a slurry of the potato material in water and then separating suspended solid matter from the liquid fraction, adding to the liquid fraction a precipitant selected from the group consisting of the alkaline earth metal oxides and hydroxides to precipitate sugars, separating the resultant precipitate from the desugared liquid fraction and digesting the latter with a mineral acid to hydrolyze proteins to amino acids, passing the hydrolyzed liquid fraction through an anion exchange resin to remove the mineral acid, thereafter passing the liquid fraction through a cation exchange resin and therein exchanging alkaline earth metal cations for sodium ions and forming sodium salts of the amino acids, absorbing the inorganic compounds in said cation exchange resin while withdrawing therefrom a solution of said amino acid salts, and concentrating the withdrawn solution to a product of high amino acid salt content.

2,666,081

METHOD OF PURIFYING PERCHLOROMETHYLMERCAPTAN

John W. Churchill, Kenmore, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application December 18, 1950, Serial No. 201,499

4 Claims. (Cl. 260—543)

1. In the manufacture of perchloromethylmercaptan by direct chlorination of carbon bisulfide at a temperature below about 30° C. in the presence of a catalyst and in the absence of direct illumination, the improvement which comprises refluxing the reaction mixture obtained by the chlorination of the carbon bisulfide for upwards of an hour with an excess of carbon bisulfide above the stoichiometric amount for reaction with by-product sulfur chlorides present whereby said sulfur chlorides are converted to perchloromethylmercaptan and sulfur, and recovering perchloromethylmercaptan from the refluxed mixture by distillation.

2,666,082

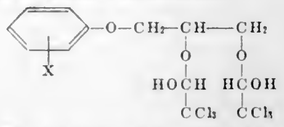
ARYLETHERS OF GLYCEROL BIS-CHLORALHEMIACETAL

John V. Scudi, New York, and Leon E. Tenenbaum, Brooklyn, N. Y., assignors to Nepera Chemical Co. Inc., Yonkers, N. Y., a corporation of New York

No Drawing. Application December 27, 1951, Serial No. 263,699

6 Claims. (Cl. 260—613)

1. Aryl ethers of glycerol bis-chloralhemiacetal of the following general formula:



in which X represents a member of a group consisting of hydrogen, alkyl and alkoxy radicals containing 1–3 carbon atoms, amino and nitro radicals and halogen.

2,666,083

PROCESS OF PRODUCING α-HALO-ω-TRIHALOPROPYL ETHERS

John W. Copenhaver and Donald E. Sargent, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 23, 1948, Serial No. 61,736

7 Claims. (Cl. 260—614)

1. The process of producing ethers of 1-halo-3-trihalopropyl ethers, which comprises subjecting a mixture of a vinyl ether selected from the group consisting of alkyl-, aryl and alkaryl vinyl ethers with a tetrahalo methane, said mixture being substantially free of polymerizable compounds other than the vinyl ether specified; to the action of heat and in the presence of free radicals selected from the class consisting of free radicals formed by peroxy compounds acting on the reaction mixture and free radicals formed by ultraviolet light acting on the reaction mixture.

2,666,084

PRODUCTION OF PRIMARY HALIDES

Kenneth D. Detling, Horace S. Knight, and George T. Williamson, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 16, 1950, Serial No. 190,434

9 Claims. (Cl. 260—648)

3. A process of producing a primary alkyl halide which comprises reacting a tertiary olefin, ethylene and a hydrogen halide in the proportions of 0.5 to 2 moles of tertiary olefinic hydrocarbon and 0.5 to 1.5 moles of ethylene per mole of hydrogen halide in the presence of a catalyst of the group consisting of free aluminum chloride and complexes of aluminum chloride with hydrocarbons and with alkyl halides at a temperature below 30° C. to effect combination of said reactants and produce an alkyl halide having two more carbon atoms than said tertiary olefin and a haloethyl radical attached to the tertiary carbon atoms of said tertiary olefin.

2,666,085

ISOMERIZATION OF DICHLOROBENZENES

John T. Fitzpatrick, Charleston, W. Va., assignor to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application September 29, 1950, Serial No. 187,683

14 Claims. (Cl. 260—650)

1. Process for producing meta-dichlorobenzene, which comprises heating to at least 120° C. and reacting a dichlorobenzene selected from the class consisting of the ortho and para isomers thereof, and mixtures of dichlorobenzenes containing at least one of such isomers, in the presence of aluminum chloride and at least 3% of water, based upon the dry weight of the aluminum chloride, required to form a basic salt with at least some of the aluminum chloride.

2,666,086

PREPARATION OF IRON DEHYDROGENATION CATALYSTS

Emory W. Pitzer, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application November 14, 1949, Serial No. 127,270

19 Claims. (Cl. 260—680)

1. A process for preparing catalytic material for dehydrogenation of dehydrogenatable hydrocarbons which comprises forming an intimate finely divided mixture of a compound of iron, a compound of at least one metal selected from the group consisting of chromium, molybdenum, tungsten, uranium, and vanadium, and a compound of potassium, each of said compounds being selected from the group consisting of the oxides and compounds converted to the oxides by the hereinafter recited digesting and calcining steps; digesting said mixture with at least one member of the group consisting of nitric acid and ammonium nitrate in a minimum amount equal to one-half the weight of said mixture for a minimum period of one hour in the presence of excess liquid; evaporating the digested mixture to dryness; calcining the residue at a temperature in the range of 500 to 1100° F. so as to drive off any remaining volatile materials; and comminuting the calcined residue.

14. A dehydrogenation catalyst made by the process of claim 1 in which the iron compound is a major proportion of said mixture, the compound of at least one metal selected from the group consisting of chromium, molybdenum, tungsten, uranium, and vanadium is a minor proportion up to a total of 47 weight per cent, and the potassium compound is in the range of 1 to 15 weight per cent.

ELECTRICAL

2,666,087

MANTLE FOR CONTINUOUS ELECTRODES

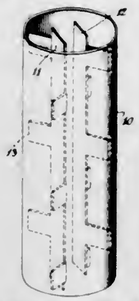
Folke Carl Evald Johansson, Borlange, and Magnus Gustav Georg Tiberg, Hallefors, Sweden, assignors to Elektrokemisk A/S, Oslo, Norway, a corporation of Norway

Application July 12, 1952, Serial No. 298,536

Claims priority, application Sweden January 3, 1949

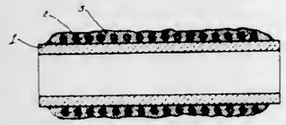
5 Claims. (Cl. 13—18)

1. In a continuous electrode of the type described, the combination of a sheet metal mantle forming the outside of the electrode, electrode paste within such mantle and contacting the same, a plate-like metallic member within the mantle embedded within the paste, spaced projections connecting such member with the mantle along two spaced vertical lines, with the projections making contact along one of said lines being



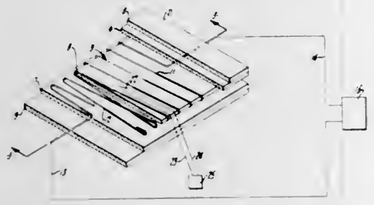
staggered relative to the projections making contact along the other of said lines and the aggregate of such lines of contact of said projections with the mantle equalling at least 30% of the length of the plate-like member with which they are connected.

2,666,088
METHOD FOR BONDING RESISTORS IN ELECTRIC FURNACES
Arnold J. Lincoln, Florham Park, N. J., assignor to Baker & Co., Inc., Newark, N. J., a corporation of New Jersey
Application April 17, 1951, Serial No. 221,525
2 Claims. (Cl. 13—34)



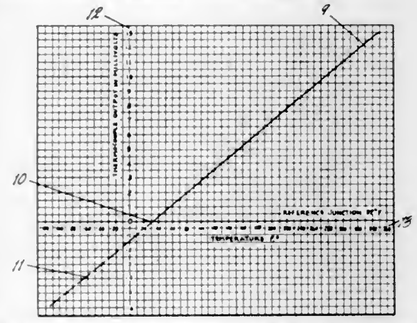
1. In the manufacture of resistance type heating chambers, a method for increasing the useful life of such chambers wherein an electrical heater element of a metal selected from the group consisting of the platinum metals is embedded into an alumina refractory material, comprising the steps of assembling the heater element and refractory material into a desired heating chamber, heating the assembled combination to a temperature within the range of 1600° C. to 1650° C. at which the said material softens into a paste-like mass but above the subsequent operating temperature, whereby any gas entrapped adjacent the heater element is driven out and a tight bond is provided between the resistor and the material and maintaining said temperature above the operating temperature for about two hours prior to employing said chamber for its intended usage.

2,666,089
HEMISPHERICAL RADIOMETER SENSING UNIT
Joseph T. Gier, Oakland, and Robert V. Dunkle, Lafayette, Calif., assignors to The Regents of The University of California, Berkeley, Calif.
Application June 1, 1951, Serial No. 229,471
3 Claims. (Cl. 136—4)



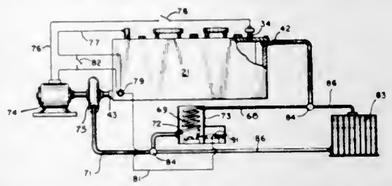
1. A radiometer sensing unit comprising, a thermal resistance element; a thermopile mounted on said thermal resistance element with its hot and cold junctions disposed on opposite sides thereof; a black body disposed over said hot junctions and a body having an outer polished surface disposed over said cold junctions; and means for passing a gaseous current over said black body and said polished surface, the upper face of said sensing unit being unobstructed so as to enable it to see the total hemisphere.

2,666,090
THERMOCOUPLE
Irving E. Aske, Muskegon, Mich., assignor of one-half to Karl W. Fitzpatrick, North Muskegon, Mich.
Application December 3, 1951, Serial No. 259,583
5 Claims. (Cl. 136—5)



5. A thermocouple, one element of which is formed of bismuth alloyed with nickel and the other element of which is formed of an alloy of tin and antimony consisting of the order of 90 to 95% tin and 10 to 5% antimony, the elements being joined together by fusion of the metals thereof.

2,666,091
ELECTRIC STORAGE BATTERY FOR USE IN EXTREME CLIMATES
Emmet L. Martin, Chicago, Ill., and Howard H. Agee, Omaha, Nebr.
Application April 12, 1951, Serial No. 220,624
10 Claims. (Cl. 136—161)

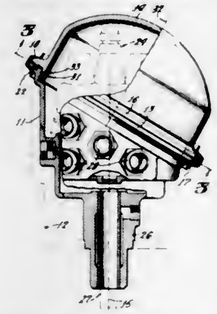


1. A storage battery for use in extreme ambient temperatures comprising a container having walls resistant to the transfer of heat and defining inlet and outlet openings for connection with a source of heat transfer liquid, a heater for said liquid having inlet and outlet openings connected in closed circuit with the container, a plurality of storage battery cells in the container, each of the cells having side and bottom walls, and means supporting each of the cells within the container with the cell walls in spaced relation to the container walls and to each adjacent cell wall, thereby defining a plurality of freely intercommunicating passageways for heat exchange liquid, each passageway being defined in part by a major portion of the area of a cell wall.

2,666,092
SHIELDING CONTAINER
Vernon W. Balzer, Van Nuys, Calif., assignor to Hallett Manufacturing Company, Inglewood, Calif., a corporation of California
Application June 18, 1951, Serial No. 232,223
6 Claims. (Cl. 174—35)

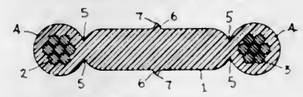
1. A shielding container for an engine accessory comprising a housing formed with an open spherical mouth circumscribed by a rim, a cap

formed with a spherical flange complementary to said mouth and adjustably seating therein, said cap being provided with a peripheral rim above and extending externally of said flange and complementary to the first said rim, and



means for advancing said flange into said mouth and one rim toward the other and retaining them in the advanced position to clamp the cap to the housing in waterproof and electrically grounded relationship.

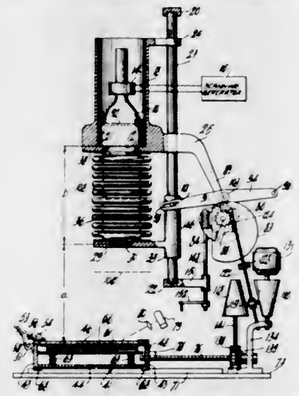
2,666,093
LOW LOSS HIGH-FREQUENCY TRANSMISSION LINE
Leslie K. Wildberg, Shaker Heights, Ohio, assignor to Radix Wire Company, Cleveland, Ohio, a corporation of Ohio
Application April 19, 1950, Serial No. 156,873
1 Claim. (Cl. 174—117)



A low loss, high frequency, transmission line comprising a band or ribbon of dielectric material having portions of substantially circular cross-section at the margins thereof, said portions having conductor wires embedded therein, said band having a central portion extending between said marginal portions of a width considerably larger than the diameter of said marginal portions and of a thickness less than the diameter of said marginal portions, and ribs extending from both surfaces and formed integrally with said central portion, said ribs disposed substantially midway between said marginal portions and extending substantially parallel with the latter, said ribs having relatively sharp ridges lying in the plane of the outer surfaces of said circular marginal portions, said marginal portions being separated from said central portion by lines of demarcation which reduce the thickness of the central portion of the band, so as to facilitate tearing or stripping of said marginal portions from the band.

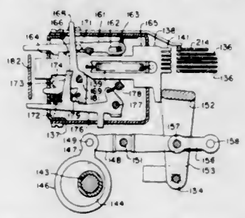
2,666,094
FACSIMILE SCANNER HAVING ADJUSTABLE LENGTH OF SCANNING LINE
Charles J. Young, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 25, 1951, Serial No. 233,464
9 Claims. (Cl. 178—7.1)

1. A facsimile scanner for scanning subject copy comprising means having an exposed surface traversed by a scanning light spot, means to support a piece of subject copy to be scanned by said light spot, optical means for imaging said light spot on subject copy supported by said copy supporting means, variable speed means for continuously feeding said copy supporting means in a direction transverse to the movement of said light spot, means to provide for movement of said surface toward or from said copy supporting means, means to support said optical means for



movement thereof toward or from said copy supporting means, and means to correlate movement of said surface, said optical means, and the speed of operation of said feed means for said copy supporting means, said variable speed means being continuously variable in accordance with movement of said surface and said optical means.

2,666,095
TELEGRAPH PRINTER
Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application May 10, 1950, Serial No. 161,165. Divided and this application October 6, 1951, Serial No. 250,056
5 Claims. (Cl. 178—23)



1. In a telegraph printer, selector mechanism comprising a plurality of permutation bars arranged in superposed horizontal planes, a function controlling unit comprising in a unitary structure a plurality of function bars slidably mounted therein for movement toward and away from said permutation bars, the leading edge of each function bar adapted to cooperate selectively with said permutation bars, a bail member constantly contacting said leading edges to hold said function bars away from said permutation bars against the action of individual springs which normally tend to urge respective function bars toward said permutation bars, a secondary member operably associated with each function bar and disposed thereabove, spring means individually associated with said secondary member to urge said secondary members in a direction toward said permutation bars, each secondary member provided with an engaging portion adapted to be interengageable with an engaging

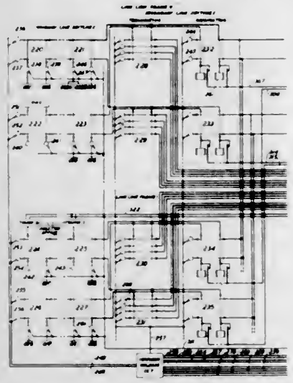
portion on its associated function bar, means for operating said ball member periodically to enable movement of said function bars toward said permutation bars by said individual springs, whereby one of said function bars is selected according to a permuted setting of said permutation bars to effect cooperative interengagement between the engaging portions of said selected function bar and its respective secondary member, whence upon the return movement of the selected function bar by said ball, said secondary member is actuated directly and positively, a lateral projection on said secondary member, means controlled by said lateral projection to directly control a function, and periodically operated stripper means effective to disengage said secondary member from said selected function bar.

2,666,096

ELECTRONIC DISCHARGE-TUBE CONTROLLED TELEPHONE SWITCHING SYSTEM

Warren A. Cornell, Beechhurst, N. Y., Nathan I. Hall, West Los Angeles, Calif., George Hecht, Astoria, and Charles D. Koechling, Floral Park, N. Y., and Franklin A. Korn, Westfield, and Harold E. Powell, Clifton, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 7, 1949, Serial No. 114,392
62 Claims. (Cl. 179—18)



1. In a communication system, a plurality of switches, a terminal, a multielement electron discharge device individual to said terminal, means for transmitting signals designating said terminal, apparatus responsive to said signals for creating a discharge across certain of the elements of said device, means controlled by said apparatus for causing a transfer of said discharge to certain other of the elements of said device, and apparatus responsive to a discharge across said certain other of the elements of said device for controlling the establishment of an electrically conductive path from said terminal through said switches.

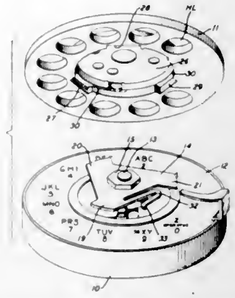
2,666,097

CALLING DIAL DEVICE

William G. Breivogel, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 7, 1950, Serial No. 199,608
3 Claims. (Cl. 179—90)

1. In a telephone calling device, a rotatable shaft, a finger wheel having a recess in one face thereof, said finger wheel having also at the periphery of said recess a plurality of spaced slots extending inwardly from said face, a plurality of circumferential grooves in communication with said slots and a tapered recess terminating in a stop opening, a mounting member coupled to said shaft and having lobes at its periphery insertable



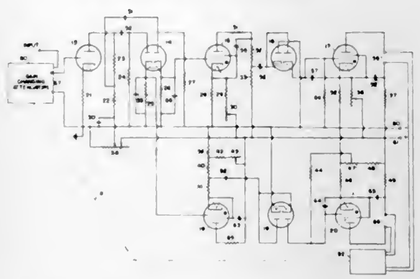
into said slots and upon relative rotation between said finger wheel and plate, slidable into said grooves, said mounting member having integral therewith a resilient finger, and said finger having an end portion adapted to fit into said tapered recess and upon said relative rotation to be guided thereby into said stop opening, thereby to lock said finger wheel to said plate member.

2,666,098

VACUUM TUBE AMPLIFIER FOR MEASURING SIGNALS HAVING A LARGE VARIATION IN LEVEL

John L. Leonard, La Mesa, Calif.

Application December 13, 1945, Serial No. 634,844
4 Claims. (Cl. 179—171)



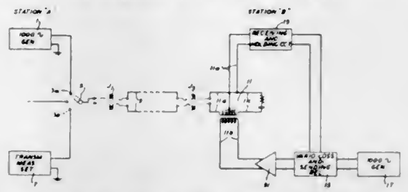
1. A measuring circuit including an amplifier having input and output circuits, an attenuator in the input circuit of said amplifier, a first electronic relay circuit connected to said amplifier output circuit responsive only to the occurrence of a predetermined number of output pulses above a predetermined magnitude but independent of the average output pulse level, a second electronic relay circuit responsive only to the occurrence of a predetermined number of output pulses below a predetermined magnitude but independent of the average output pulse level, adjusting means responsive to the said first and second electronic relay circuits operating said attenuator to decrease the level of the signal input to said amplifier in response to operation of said first electronic relay circuit and operating said attenuator to increase the level of the signal input to said amplifier in response to operation of said second electronic relay circuit.

2,666,099

LOSS MEASUREMENT IN TWO-WAY ELECTRICAL TRANSMISSION SYSTEMS

Arthur L. Bonner, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 20, 1950, Serial No. 169,165
13 Claims. (Cl. 179—175.3)



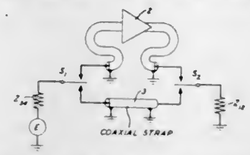
1. In an electrical system including a two-way signal transmission path extending between a first terminal and a second terminal, the method which comprises transmitting a first tone over the signal transmission path from said first terminal to said second terminal, utilizing the received energy of said first tone at said second terminal to adjust the amplitude of a second tone initiated at said second terminal, returning said second tone over the signal transmission path to said first terminal, and measuring the amplitude of said second tone at said first terminal with reference to the transmitted amplitude of said first tone.

2,666,100

MEASURING APPARATUS

Thaddeus Slonczewski, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 20, 1951, Serial No. 252,390
8 Claims. (Cl. 179—175.3)



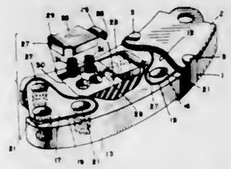
1. In a measuring set, a converter for producing unidirectional current in response to an impressed wave of alternating potential, input and output circuits for the converter, periodic switching means for connecting the input circuit of the converter alternately to first and second transmission circuits to be compared, thereby producing in the output circuit of the converter changes in the amount of unidirectional current constituting a wave of the same periodicity as the switching means and having an amplitude varying in response to the difference in the amplitudes of whatever waves are received in the input circuit of the converter over the respective transmission circuits to be compared, a potentiometer connected to the output circuit of the converter, a fixed contactor and a movable contactor connected to the potentiometer, a sampling circuit, means for connecting the sampling circuit to the fixed contactor of the potentiometer during a portion of each time interval within which the converter is connected to the first of said transmission circuits to be compared and for connecting the sampling circuit to the movable contactor of the potentiometer during a portion of each time interval within which the converter is connected to the second of said transmission circuits, thereby producing potential variations in the sampling circuit with the periodicity of the switching means and of amplitude responsive to the difference between the potential of the fixed contactor when the converter is connected to the first transmission circuit to be compared and the potential of the movable contactor when the converter is connected to the second transmission circuit to be compared, means actuated by the last-mentioned potential variations for changing the position of the movable contactor on the potentiometer whereby said last-mentioned potential variations may be reduced substantially to zero, and means to indicate the relative position of the movable contactor along the potentiometer.

2,666,101

SLIDING CONTACTOR SWITCH CONSTRUCTION

Gilbert S. Ellithorpe, Chicago, Ill., assignor to Carter Parts Company, Chicago, Ill., a corporation of Illinois

Application March 2, 1951, Serial No. 213,657
7 Claims. (Cl. 200—16)



4. In a switch of the class described comprising a terminal board having a plurality of uniformly spaced contacts on one face arranged along a common axis of alignment, and a shiftable contactor carrier mounted adjacent and parallel with said terminal board face, a pair of contactors mounted on said carrier in end to end relation along the axis of alignment of said contacts, said carrier having a well opening toward said terminal board and adapted to receive said contactors, a coiled spring seated in said well below each of said contactors and normally urging said contactors outwardly independently of each other, the adjacent ends of said contactors each having a projecting end flange of about one-half the contactor width and said end flanges being in side by side overlapping relation, a contacting element on each of said contactor end flanges and on each of the opposite ends of said contactors, the contacting elements on each contactor being spaced substantially the same distance as said contacts, and means to shift said carrier to move said contactors along the axis of alignment of said contacts.

2,666,102

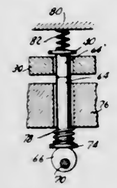
MECHANICAL RECTIFIER

Floris Koppelmann, Berlin-Reinickendorf, Germany, assignor to Licentia Patent-Verwaltungs-G. m. b. H., Berlin, Germany, a corporation of Germany

Application April 13, 1950, Serial No. 155,585
Claims priority, application Germany
November 4, 1949
16 Claims. (Cl. 200—30)

1. A contact arrangement for mechanical current converters, comprising in combination, a stationary contact member; a movable contact member; an eccentric adapted to be driven synchronously with the current to be converted; a pivoted lever engaging said eccentric; a rod engaging with one end thereof said lever; guide

means for guiding said rod in a substantially linear direction; a recess arranged at the other end of said rod; and a compression spring arranged in said recess and urging said movable



contact member against said stationary contact member whereby the stroke of said compression spring is constant during the opening of said contact members.

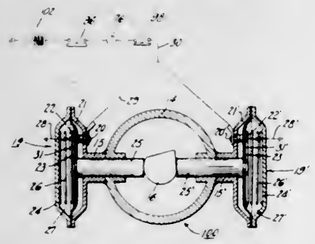
2,666,103

SWITCH MECHANISM

Earl R. Price, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Original application September 28, 1949, Serial No. 118,369. Divided and this application March 26, 1951, Serial No. 217,629

6 Claims. (Cl. 200—34)



1. A governor operated switch mechanism including a casing member, a governor mechanism, including a cam member, housed within the casing member, two switches, each including relatively movable fixed and movable contact members, secured to the exterior of the casing member one of of the contacts of each switch being actuated by the cam member, springs for biasing said contact members into engagement with each other, and two dash pots, one connected to each of the movable switch contacts and operable to delay the switch closing operation of the mechanism.

2,666,104

CHUCK-KEY HOLDER AND SAFETY DEVICE FOR POWER TOOLS

Lawrence C. Griffin, Akron, Ohio

Application October 25, 1951, Serial No. 253,115

5 Claims. (Cl. 200—52)



4. A safety switch as for use with a power tool requiring a separate chuck-locking key having an elongated projection thereon, comprising a relatively fixed casing having a recess for slidably receiving a substantial length of said key projection thereon to support the key on the casing, switch contacts in said casing adapted to be in electrical connection to a said power tool, said switch contacts when open preventing operation of the power tool, and switch actuating means in said casing including a portion yieldingly engageable by said key projection upon reception in said recess to close said switch contacts and thereby permit operation of the power tool, said electrical connection including an insulated electrical cable having wire connections to said switch contacts at a point remote from said power tool, said casing being segmental and having securing means for clamping the segments together to support the casing on the cable.

2,666,105

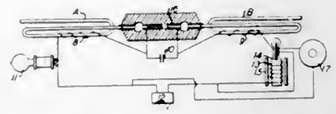
APPARATUS FOR SIGNALING THE ESCAPE OF ILLUMINATING GAS AND OTHER SIMILAR COMBUSTIBLE GASES

Giuseppe Menozzi, Vincenzo Ricca, and Bruno Ricca, Messina, Italy

Application January 13, 1949, Serial No. 70,774

Claims priority, application Italy August 10, 1948

13 Claims. (Cl. 200—61.03)



1. A device for signaling the presence of illuminating gas comprising a differential thermometer including a pair of coil-shaped interlaced tubes, a capillary tube connecting said pair of tubes and containing mercury, gas under pressure in each of said pair of tubes positioning the mercury in said capillary tube, a catalyst around one of said pair of gas filled tubes responding to the presence of illuminating gas to raise the temperature of said one tube relative to the other of said tubes, and electrical contacts in said capillary tube contacted by said mercury for closing an electrical circuit when a predetermined temperature increment is obtained between the respective temperatures of said pair of gas filled tubes, the pressure of the gas in said pair of tubes being greater than twice the superficial tension of said mercury divided by the product of the radius of said capillary tube and the quotient of the predetermined temperature increment and the absolute temperature of the gas in said pair of tubes.

2,666,106

DEFLATION INDICATOR FOR PNEUMATIC TIRES

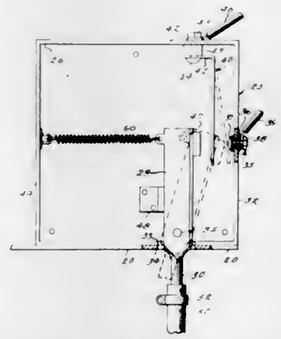
James Montjoy Wilson, Vancouver, Wash.

Application September 8, 1950, Serial No. 183,838

2 Claims. (Cl. 200—61.23)

2. A tire deflation indicator for a pneumatic tire comprising a housing positioned above said tire, said housing having a bottom wall, spaced side walls rising from the bottom wall, an end wall at each of the ends of the side walls and secured to the latter walls and said bottom wall, and a top wall secured to the side and end walls, a vertically disposed lever positioned within said housing adjacent to and spaced from one of the end walls of said housing and connected to one of the side walls of said housing intermediate its ends for rocking movement about a horizontal axis in a vertical plane toward and away from said one end wall of said housing, said lever extending through the bottom wall of said housing and having the lower end exteriorly of and

spaced from the bottom wall of said housing and having the upper end below and spaced from the top wall of said housing, a flexible element having one end connected to the lower end of said lever and having the other end adjacent to and spaced above a tire supporting surface, a coil spring having one end connected to the other of the end walls of said housing and having the other end connected to the upper end of said lever for biasing said lever away from said one end wall of said housing, an electrical contact positioned adjacent the upper end of said lever



and carried by said one end wall of said housing, a stop member carried by one of the side walls of said housing and engageable with said lever intermediate the upper end thereof and said axis for limiting the movement of said lever away from said one end wall of said housing, and a vertically disposed resilient contact arm positioned within said housing and having the upper end fixedly secured to the top wall of said housing, the lower end portion of said contact arm being between and spaced from the upper end of said lever and said contact.

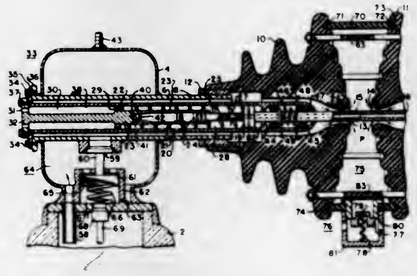
2,666,107

COMPRESSED GAS CIRCUIT INTERRUPTER

Winthrop M. Leeds, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 13, 1949, Serial No. 115,453

12 Claims. (Cl. 200—82)



7. A compressed gas circuit interrupter including a pair of spaced insulating columns, a gas reservoir chamber disposed adjacent one end of each column, an interrupting head secured to each gas reservoir chamber through which compressed gas may flow for interrupting purposes, and enclosing means positioned between the interrupting heads and fastened thereto defining a substantially enclosed exhaust chamber.

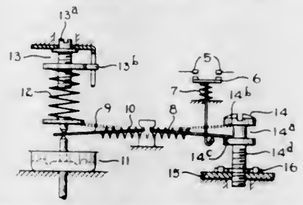
2,666,108

FIXED DIFFERENTIAL ADJUSTING MEANS FOR PRESSURE SENSITIVE ELECTRICAL CONTROL DEVICES

William E. Brown, Pewaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application November 25, 1949, Serial No. 129,468

8 Claims. (Cl. 200—83)



6. A pressure responsive electrical control device comprising a set of contacts, a pressure responsive operating element therefor, and means affording simultaneously a predetermined fixed operating differential for said device and a contact arc gap and wear allowance, the ratio of which may be varied while the sum thereof remains constant, said means comprising fixedly spaced surfaces to limit travel of the said operating element, and the spacing of said surfaces being equal to the sum of the desired wear allowance and arc gap of said contacts, plus the thickness of said operating element.

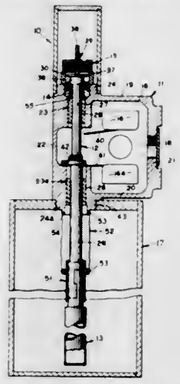
2,666,109

LIQUID LEVEL CONTROL

Leonard T. Cookson, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

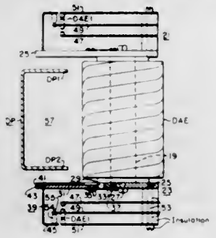
Application October 25, 1950, Serial No. 192,118

13 Claims. (Cl. 200—84)



1. In apparatus for controlling the level of a liquid in a vessel, the combination comprising: a float responsive to the level of a liquid in said vessel; means yieldably to resist the downward movement of the float beyond a predetermined point; means yieldably to resist upward movement of the float beyond substantially the same predetermined point; electrical switching means responsive to upward movement of the float a selected distance above a predetermined point to terminate the flow of liquid into said vessel; and electrical switching means responsive to downward movement of the float a selected distance below said predetermined point to initiate flow of liquid into the vessel.

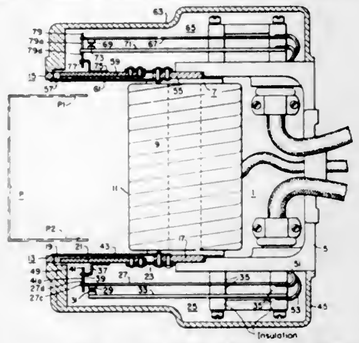
2,666,110
ELEVATOR INDUCTOR SWITCH
Harry Berkovitz, Weehawken, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 26, 1949, Serial No. 129,665
14 Claims. (Cl. 200—87)



8. In an electromagnetic assembly, a magnetic channel member, an electromagnetic device comprising a pair of spaced parallel pole pieces having a non-magnetic gap therebetween, means mounting the channel member and the device for relative movement in a direction parallel to the channel member to pass the channel member through the gap with a separate one of the channel flanges adjacent each of the pole pieces, the spacing between said pole pieces being larger than the depth of the channel, said flanges during their movement past the device being located substantially between the pole pieces, said device including a coil having an axis transverse to said direction for directing, when energized, magnetic flux through the gap and through the channel member when the member is in the gap, a magnetic armature element associated with a first one of the pole pieces for movement relative thereto toward and away from the non-magnetic gap, and a translating device responsive to movement of the armature, said translating device comprising a switch having an operating element and means including a force transmitting link for transmitting operating forces between the magnetic armature element and the operating element, said link being secured to one of the elements with a substantial amount of loose play, whereby the link may tilt with little friction in response to relative movement by the elements in directions resulting in tilt of the link.

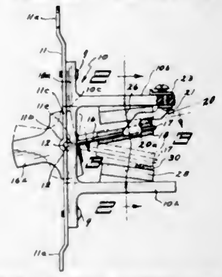
2,666,111
ELEVATOR INDUCTOR SWITCH
Conwell Savage, New York, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 20, 1950, Serial No. 163,291
9 Claims. (Cl. 200—87)

9. In a magnetically-operated device, a source of magnetomotive force, a magnetic structure defining a magnetic path having a non-magnetic gap for magnetic flux produced by said source, said magnetic structure including a magnetic polar plate having a surface abutting said gap, the polar plate having an aperture communicating with the gap, a magnetic armature disposed substantially in said aperture in spaced relationship relative to the walls of the aperture, means mounting the magnetic armature for movement relative to the polar plate about an axis towards and from the gap, said gap being unobstructed in a predetermined direction, whereby a magnetic body may be passed through the gap in said direction, said polar plate substantially completely surrounding the magnetic armature in a plane parallel to said direction, a non-magnetic member interposed between the magnetic armature and the gap, said member being secured to the polar plate to cover said aperture, and a cover secured to the polar plate to provide a substan-



tially complete enclosure for the translating means, said enclosure being defined in part by the cover, the member and the polar plate, and translating means responsive to movement of the armature relative to the polar plate.

2,666,112
MAGNETICALLY CONTROLLED SWITCH
Clarence L. Nelson, Minneapolis, Minn.
Application September 20, 1951, Serial No. 247,403
7 Claims. (Cl. 200—87)

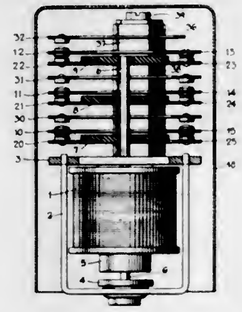


1. An electric switch having in combination, a frame, a fixed contact mounted on said frame, a lever pivoted intermediate its ends on said frame, a handle at one end of said lever, a movable contact carried adjacent the other end of said lever movable into engagement with said fixed contact and away from the same, an armature carried by said lever, a magnet adjacent said fixed contact and a magnet spaced from said fixed contact in the direction of movement of said lever, said lever being freely movable by said handle whereby when said movable contact is in position engaged with said fixed contact or in position spaced from said fixed contact it will be held in said positions respectively by said armature and the respective one of said magnets.

2,666,113
ELECTRIC CONTACT DEVICE, PREFERABLY FOR RELAYS
Hellmuth Kuhnke, Malente-Gremsmuhlen, Germany
Application June 15, 1950, Serial No. 168,191
Claims priority, application Germany December 1, 1949
2 Claims. (Cl. 200—104)

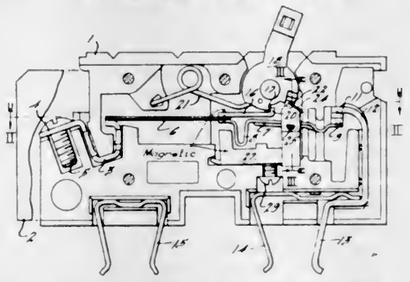
1. An electric contact device, comprising an electromagnet having a magnetizable core struc-

ture and a cylindrical coil concentrically disposed on said structure and having an axial center bore, said magnet having an axially movable armature member disposed at one axial side of said coil, an axially displaceable pusher rod joined with said armature and extending through said bore to the opposite side of said coil, a stack of axially aligned sets of contact springs insulated from each other and disposed on said core structure at said opposite coil side, each of said sets having two substantially flat springs of arcuate shape arranged substantially on a circle about said rod and in a common plane perpendicular to the rod



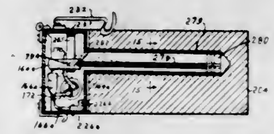
axis, each spring being at one end rigidly mounted on said core structure and being movable at the other end, and each of said sets having in said plane an outer diameter substantially equal to the diameter of said electromagnet, mutually insulated stationary contact members also mounted on said core structure and engageable with the respective other ends of said respective springs, said rod having axially spaced parts engageable with said springs for moving said springs relative to said stationary contact members when said rod is displaced by movement of said armature, whereby the overall space occupied by the device is minimized.

2,666,114
CIRCUIT BREAKER
John G. Jackson, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application March 24, 1951, Serial No. 217,330
31 Claims. (Cl. 200—116)



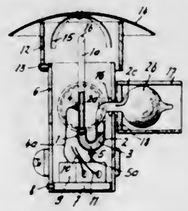
1. In a circuit breaker, a fixed contact, movable contact means disposed to cooperate with said fixed contact whereby an electrical circuit may be completed through said circuit breaker, means for electrically connecting said circuit breaker to exterior electrical circuits, current responsive means normally biasing said movable contact means toward closed circuit position, means for holding said movable contact away from said fixed contact, and manual means for moving said movable contact means into engagement with said holding means and for effecting the release of said movable contact means from said holding means whereby said movable contact means will engage said fixed contact to close the electrical circuit through the circuit breaker.

2,666,115
ELECTRICAL SWITCH MECHANISM
Leslie Day, Chicago, Ill., assignor of one-half to Lamar L. Day, St. George, Staten Island, N. Y.
Application February 15, 1950, Serial No. 144,356
4 Claims. (Cl. 200—138)



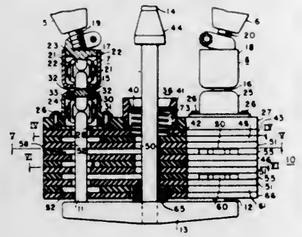
1. In switch mechanism for a bearing part having a bore from which annularly spaced longitudinally extending grooves communicate: a temperature responsive device having a frame receivable in said bore and grooves respectively; a switch box connected to said frame; a switch within said box and actuated by said temperature responsive device upon both heating and cooling of said temperature responsive device; and a latch for said box adapted to engage a part of said bearing part for releasably securing said box and temperature responsive device in operative position with respect to said bearing part.

2,666,116
ELECTRIC SWITCHING APPARATUS CONTROLLED BY SOLAR RADIATION
Kurt Schweingruber, Zurich, Switzerland
Application November 19, 1951, Serial No. 257,111
1 Claim. (Cl. 200—141)



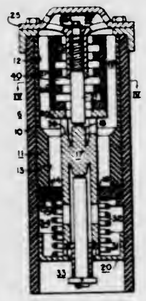
An electric switching apparatus for control by solar radiation, comprising a vertically arranged tube of electrical insulating material and having at both its upper and lower ends U-bends to provide upwardly and downwardly extending vertical leg portions, a spherical enlargement at the end of each leg portion and in communication therewith; one only of said spherical enlargements having its external surface frosted and darkened to selectively absorb a greater proportion of incident radiation than that absorbed by the other enlargement, a body of mercury in the lower bend of said device, the remainder thereof containing a gaseous atmosphere, and respective contacts, one disposed in the lower bend of said device and the other in the vertical central tube above the level of said mercury when the pressures in said enlargements are equal, whereby said body of mercury will complete a connection between said contacts in response to solar radiation impinging upon said darkened enlargement.

2,666,117
CIRCUIT INTERRUPTER
Winthrop M. Leeds, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 18, 1950, Serial No. 162,655
23 Claims. (Cl. 200—150)



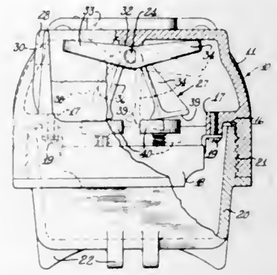
1. A circuit interrupter including an enclosure, a pair of terminal bushings extending within the enclosure and having stationary contacts associated therewith, a pair of movable rod-shaped contacts, a conducting cross-bar mechanically and electrically interconnecting the pair of movable contacts, an operating rod for actuating the cross-bar, a movable arc-extinguishing assemblage, the movable contacts being movable with the operating rod and actuated thereby, said movable contacts being movable substantially through the assemblage in the closed circuit position of the interrupter, the arc-extinguishing assemblage having a lost-motion connection with respect to the cross-bar and operating rod, and the arc-extinguishing assemblage remaining stationary adjacent the two stationary contacts during the initial portion of the opening operation while the two movable contacts move away from the stationary contacts to draw arcs within the then stationary arc-extinguishing assemblage.

2,666,118
CIRCUIT INTERRUPTER
Leon R. Ludwig, Snyder, N. Y., and Winthrop M. Leeds, Pittsburgh, and Benjamin P. Baker, Turtle Creek, Pa., and James M. Cumming, deceased, late of Monroeville, Pa., by Helen J. Cumming, executrix, Monroeville, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 29, 1950, Serial No. 171,158
9 Claims. (Cl. 200—150)



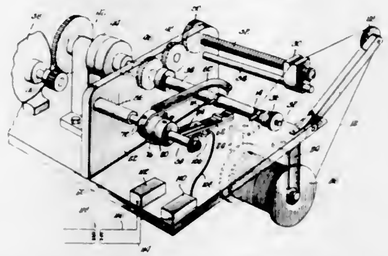
1. A circuit interrupter of the liquid break type including a casing, a rod-shaped relatively stationary contact disposed adjacent one end of the casing, a movable contact assembly movable within the casing including a hollow piston member through which liquid may flow, an intermediate contact and a driving piston, the intermediate contact being cooperable with the relatively stationary contact to establish an arc which is subjected to the liquid flow passing through the hollow piston, a movable contact movable adjacent the other end of the casing and cooperable with the intermediate contact to establish a second serially related arc, the rod-shaped relatively stationary contact protruding at least part way through the hollow piston member to engage the intermediate contact in the closed circuit position of the interrupter, liquid inlet passage means disposed in the movable contact assembly adjacent the point of engagement of the stationary and intermediate contacts, means biasing the movable contact assembly to the open circuit position, and the second serially related arc assisting opening motion of the driving piston during high current interruption.

2,666,119
EXPLOSION-PROOF SWITCH APPARATUS
Benjamin F. Becker, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey
Application December 28, 1951, Serial No. 263,758
1 Claim. (Cl. 200—168)



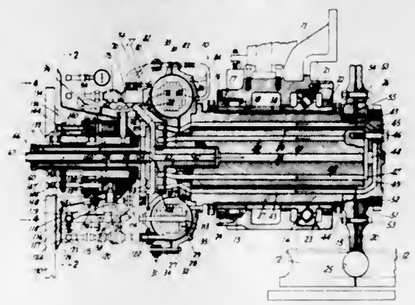
An explosion-proof switching apparatus comprising a conduit receiving housing having a cylindrical bottom wall providing a screw threaded access opening, a switching apparatus carried by said housing and extending into an accessible position in said access opening, a cup-shaped closure member for said access opening providing a receptacle forming an oil reservoir and including thread means engaging said bottom wall to couple said closure member and said housing in flame-proof assembly and to draw up the closure member relative to the housing to immerse the switching apparatus in the oil reservoir, a shaft threadedly journaled in one wall of said housing and having a switch actuator member inside of said housing extending toward said access opening, said switch actuator member having spaced end portions forming camming surfaces for engaging the buttons of a push button switch, said spaced end portions also providing a toggle pin recess therebetween, said end portions having opposed spaced apart abutment surfaces for engaging a toggle pin of a toggle switch on opposite sides of said toggle pin recess, said shaft having a manual actuator member connected thereto outside of said housing to displace said actuator in unison therewith, said switch actuator effecting an operative connection with said switching apparatus whether it be of the push button or toggle type.

2,666,120
WELDING METHOD AND ARTICLE PRODUCED THEREBY
Harry Chanowitz, Chicago, Ill., assignor to David T. Siegel, Wheaton, Ill.
Original application March 5, 1945, Serial No. 581,088, now Patent No. 2,460,807, dated February 8, 1949. Divided and this application November 5, 1947, Serial No. 784,132
8 Claims. (Cl. 201—63)



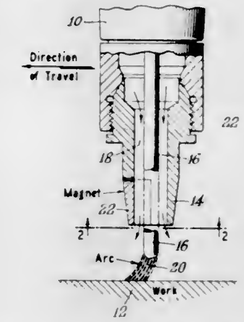
1. A wire coil electrical resistor or the like comprising a core member, a pair of connector lugs mounted in predetermined fixed position upon the core member, each of said lugs comprising a band portion embracing the core member and an angular projecting tab portion, and an elongated electrical wire wrapped into a wire coil about the core member, the wire being on the order of .001 inch or less in diameter, and the ends of the wire being electro-resistance welded, respectively, to the band portions of said lugs and solely secured thereby to said lugs.

2,666,121
ROTARY SEAM WELDING TRANSFORMER
Ernst W. Allardt, Alliance, Ohio, assignor, by mesne assignments, to The Babcock & Wilcox Company, Jersey City, N. J., a corporation of New Jersey
Application January 2, 1951, Serial No. 204,029
5 Claims. (Cl. 219—6)



1. In electric seam welding apparatus a welding circuit including a pair of concentric, substantially telescoped, electrically conductive cylindrical members secured together as a unit in insulated relation to each other; the inner member having a radial extension axially beyond one end of the outer member; said one end of the outer member having a frusto-conical surface forming a seat, tapering toward the outer end of the outer member, for a circular electrode arranged to engage one edge of the longitudinal seam to be welded; said extension having a frusto-conical surface forming a seat, tapering toward the outer end of the outer member, for a second electrode arranged to engage the other edge of the seam to be welded; means insulating said electrodes from each other; the two frusto-conical surfaces being part of the same conical surface of revolution; means engaging the second electrode and operative to force both electrodes inwardly along said tapered seats to fit tightly thereon; bearing means supporting said members for rotation; and means connecting said members to a source of electric potential.

2,666,122
INERT GAS SHIELDED MAGNETIC FIELD CONTROLLED ELECTRIC ARC METAL WORKING PROCESS AND APPARATUS
John L. Curtin, Kenmore, and Donald M. Yenni, Williamsville, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application October 27, 1950, Serial No. 192,482
10 Claims. (Cl. 219—8)

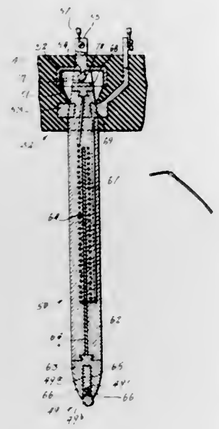


1. Process of working metal which comprises establishing a metal fusing electric arc between the work and a metal electrode by flowing current through such electrode and the work, discharging from a cup surrounding the electrode a stream of gas around such electrode and arc, and over the adjacent work metal, directing such arc with a transversely balanced component of a magnetic field derived from a semi-annular source of flux incorporated with such cup, and relatively moving such work and the electrode along a line to be worked, thereby progressively fusing the work metal along such line with such arc, the strength and direction of said transverse magnetic field component being such with respect to the current flowing in such arc that the arc is kept focussed on the work along such line at a substantially constant acute angle, whereby the speed of the operation is substantially increased.

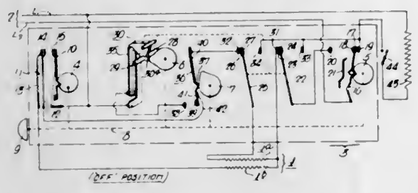
2,666,123
MATERIAL CUTTING DEVICE
Bertram W. Blackman, Great Neck, N. Y.
Application December 13, 1951, Serial No. 261,558
9 Claims. (Cl. 219—19)

7. In a material cutting device including a table for material, and a support bracket including a slidable head and pattern form; said head including insulated plates, a mounting post secured in said plates, contact means in vertical spaced relation in said plates and extending upwardly therefrom to main lead means for independent operation, resistance windings in said posts to conduct heat to the pattern forms, and

gripper means on said post to engage said pattern form, said contact means are cap contacts received within said plates and ring contacts engaging said post.

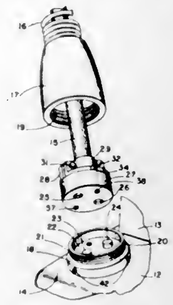


2,666,124
CONTROL APPARATUS FOR ELECTRICAL HEATING UNITS
Walter H. Vogelsberg, Glen Burnie, Md., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 25, 1950, Serial No. 157,933
19 Claims. (Cl. 219—20)



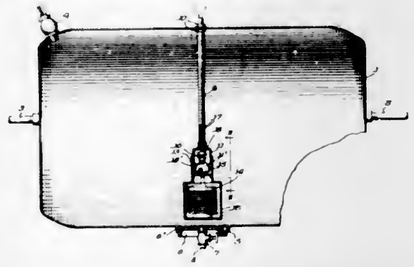
1. In a system for effecting overenergization of an electrical heating unit from an electrical supply line to heat said unit rapidly to a selected temperature, and for effecting subsequent normal operation of the heating unit at a desired average rate of energization, manually adjustable means for selecting a full range of inputs from some low value to a 100% input, means for effecting overenergization of said heating unit, control means in circuit with said heating unit for timing the interval of overenergization according to the adjustment of said first means over a range which includes inputs less than 100% and 100% input, means for terminating the overenergization under control of said timing control means and for establishing normal operation of the heating unit, said timing control means being effective during normal operation of the heating unit to control the average rate of energization at inputs less than 100%, a switch arranged to connect the heating unit across the supply line independently of said timing control means for normal operation at 100% input, and means controlled by said manually adjustable means to close said switch when selection is made of 100% input.

2,666,125
FLATIRON CORD CONNECTION
Frank W. Carpenter, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application June 14, 1948, Serial No. 32,896
4 Claims. (Cl. 219—25)



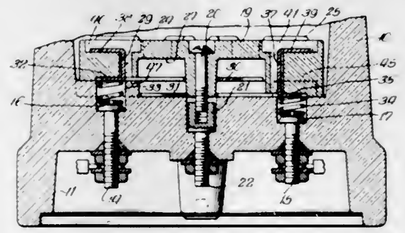
4. An electric flatiron having a soleplate, a heating element, a cover shell mounted above the soleplate and having an opening therethrough, a first insulating plate secured in said opening and having projecting terminal posts thereon and at least one threaded bushing therein, a second insulating plate adjacent the outer surface of the first plate and having sockets into which the terminal posts project, an electric supply cord having an uninsulated wire portion in each socket, a cord clamp engaging the supply cord adjacent the second plate, the cord clamp and second plate having openings aligned with the threaded bushing of the first plate, and a retaining screw passing through the aligned openings and into the bushing and holding the cord clamp and second plate in assembled position with the wire portions pressed in contact with their respective terminal posts.

2,666,126
AIR BRAKE SYSTEM TANK HEATER
Thomas A. Raines, Bellwood, Ill.
Application July 16, 1952, Serial No. 299,287
2 Claims. (Cl. 219—38)



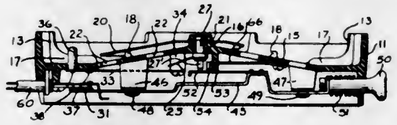
1. A heating and thawing device for the compressed air storage tanks of air brake systems, including a storage tank having an opening in its bottom whereby to provide working access to the interior thereof, a valved closure removably engaged in said opening, a vertical tubular supporting member within the tank above and aligned with said opening in its bottom, the upper end of which extends through and is connected to the top of said tank, an inverted cup-like member connected to the lower end of the tubular supporting member and spaced above the opening in the tank bottom, a housing below said cup-like member and above said tank bottom opening having an upstanding neck on and communicating with its upper side, the cross-sectional size of said neck being sufficient to permit its snug and detachable telescopic engagement over and about the open lower end of the inverted cup-like member, connecting means on said cup-like member detachably engaged with the telescopically engaged portion of the upstanding neck, electrical heating means within said housing, electrical conductors extended through and beyond the tubular supporting member, and a detachable electric connection connected to the conductor ends within said inverted cup-like member for detachable electrical connection with the terminals of the electrical heating means.

2,666,127
BOTTLE WARMER
Arne B. Johnson, Madison, Wis.
Application April 15, 1952, Serial No. 282,320
8 Claims. (Cl. 219—40)



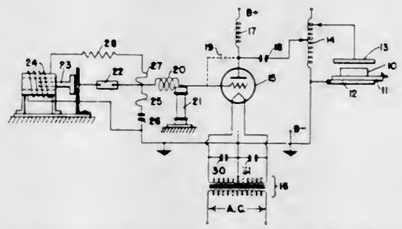
4. In a liquid conductor heater of the type having a liquid container of insulating material and a pair of electric terminals in the base portion thereof connected to a line cord for connection with a source of electric current, the removable electrode assembly including in combination, a removable perforated false bottom of insulating material, means to removably secure said false bottom within said container to the base portion thereof, a pair of planar electrodes of conductive material secured to said false bottom in spaced relation to each other in planes generally parallel to the plane of the false bottom, the lower end of said electrodes being arranged to expose a surface of the upper one of said electrodes, and a pair of coil springs for electrically interconnecting a respective one of said terminals with a respective one of said electrodes when said false bottom is secured within said container, one of said coil springs extending past the lower of said electrodes to establish electrical contact between the exposed surface of the upper of said electrodes and one of said terminals.

2,666,128
ELECTRIC APPLIANCE STAND
Clark A. Crawford and John F. Frazier, Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York
Application February 23, 1951, Serial No. 212,366
9 Claims. (Cl. 219—43)



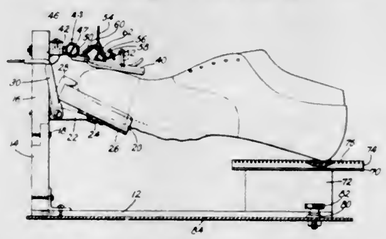
1. In a stand for an appliance having an electric heating element, resiliently supported current-supply electrodes adapted to be engaged and moved to an alternative position by the terminals of the heating element of the appliance upon its deposit on the stand, an operating circuit for said element including a pair of contacts a first of which is adapted to be moved to an alternative position by one of said electrodes in its movement to its alternative position, a normally locked mechanism for moving the second contact of said pair to a position to engage the first contact when such first contact is occupying its alternative position, said mechanism being adapted to be unlocked by the other of said electrodes in its movement to its alternative position, and a manually operable member for actuating said mechanism to move the second of said contacts to a position to engage the first thereof when the same is occupying its alternative position.

2,666,129
SYSTEM FOR CONTROLLING OSCILLATOR GRID CURRENT
Carl E. Ellsworth, Louisville, Ky., assignor, by mesne assignments, to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware
Application March 5, 1948, Serial No. 13,275
13 Claims. (Cl. 219—47)



9. An oscillator system comprising an oscillator tube, a grid circuit therefor, a tuned anode circuit having fixed coupling to said grid circuit to provide a feedback voltage, a reactance solely in said grid circuit adjustable to vary the grid excitation of said tube, and a device energized in accordance with the direct-current component of said grid excitation to vary said reactance in sense to maintain the grid excitation substantially constant at a preset value despite changes in the anode circuit load upon said feedback voltage.

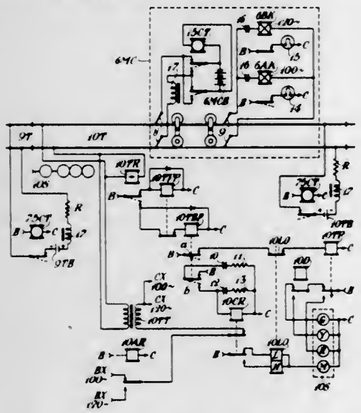
2,666,130
ELECTRODE SYSTEM
Robert W. Bradley, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 2, 1952, Serial No. 280,149
7 Claims. (Cl. 219—47)



2. In apparatus for dielectric heating, a pair of electrodes adapted to cooperate with the end

of a shoe, means for supporting said shoe with one end in the field region of the electrodes, an abutment arranged to be engaged by the tip of said end when said shoe is disposed manually substantially in operating position, and means operative upon manual release of the shoe for retracting the tip from engagement with the abutment.

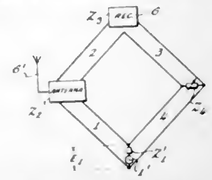
2,666,131
SUPPLEMENTARY APPARATUS FOR RAILWAY SIGNALING SYSTEMS
Benjamin Mishelevich, Pittsburgh, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application March 5, 1949, Serial No. 79,866
21 Claims. (Cl. 246—41)



8. In combination with railway signaling apparatus comprising a track section having a track circuit including a first source of electrical energy, the rails of the section and a track relay, and a signal controlled by the track relay and governing traffic movements into the section, said relay being effective when deenergized by the shunting action of the wheels and axles of a passing train to cause said signal to display a restrictive aspect, the polarity of the rails in adjacent sections being staggered; emergency apparatus for controlling said signal comprising a second source of electrical energy having a potential sufficient to at least balance that of said first source, means for connecting said second source to the rails so as to modify the potential between the rails and thereby the energization of said track relay in a manner distinctively different from any modification imparted thereto by said first source, means including said track relay and effective upon such a modification in the energization thereof to cause said signal to display a restrictive aspect; and means located adjacent the connecting means and rendered effective as a result of such a distinctive modification of the potential across the rails for indicating whether the potential is so distinctively modified.

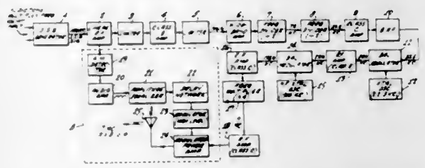
2,666,132
ULTRAHIGH-FREQUENCY BRIDGE CIRCUIT AND APPARATUS
Wilmer L. Barrow, Manhasset, N. Y.
Application January 25, 1947, Serial No. 724,390
13 Claims. (Cl. 250—13)

5. Bridge circuit means having transmission lines connected as the arms thereof with opposite bridge points and conjugate bridge points formed at the junctions of the arms, energy supply means connected to one of said opposite bridge points, a control source connected to one of said bridge points, and a load series connected



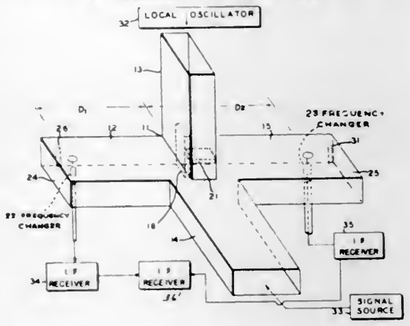
to one of the remaining bridge points, whereby the load is controlled by the control source independently of the energy supply means.

2,666,133
SINGLE SIDEBAND TRANSMITTER
Leonard R. Kahn, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 16, 1951, Serial No. 242,061
26 Claims. (Cl. 250—17)



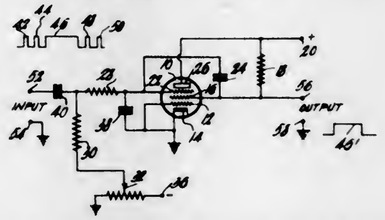
1. In a transmitter, means for producing a single sideband signal in the form of a complex wave from a source of intelligence, said single sideband wave having amplitude modulation and phase modulation components, means for amplifying substantially only said phase modulation component, means for amplifying only the amplitude modulation envelope of said single sideband complex wave, and means for combining the amplified modulation envelope with the amplified phase modulation component to provide a resultant amplitude modulated and phase modulated wave representative of said single sideband complex wave.

2,666,134
WAVEGUIDE MIXER
Robert H. Dicke, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application April 3, 1945, Serial No. 586,413
18 Claims. (Cl. 250—20)



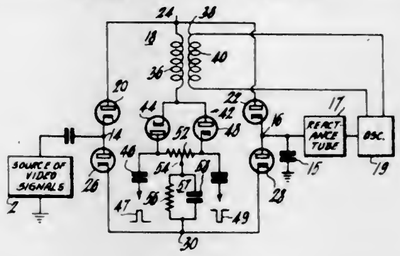
15. A wave-guide assembly comprising: a main wave-guide section having a non-linear impedance at each of the opposite ends thereof; and a pair of branch wave-guide sections, perpendicular to said main wave-guide section and to each other, extending outwardly from said main wave-guide section.

2,666,135
PULSE DISCRIMINATORY CIRCUIT
Loy E. Barton, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 28, 1948, Serial No. 29,776
4 Claims. (Cl. 250—27)



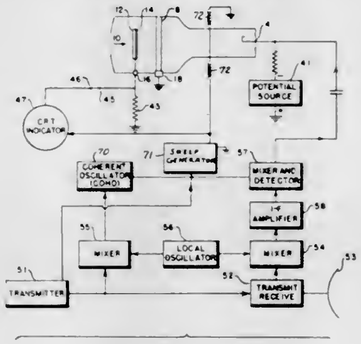
1. In an electric wave discriminatory system the combination of electronic discharge tube having cathode, a control grid, a screen grid, a suppressor grid, and a plate electrode, circuit connections adapting said discharge tube for operation as a negative transconductance amplifier having an input circuit associated with said suppressor grid, and an output circuit associated with said screen grid, means connecting said output circuit in regenerative relationship with said input circuit, means for applying a control potential to said suppressor grid for conditionally inactivating said regenerative amplifier circuit, and an electrical integrating circuit intercollated in said input circuit, said integrating circuit being adapted to respond to a series of electric wave signals whereby said amplifier circuit is rendered regeneratively active by only those wave signals imparting to said integrating circuit an amount of integratable energy in excess of a predetermined magnitude.

2,666,136
FREQUENCY SYNCHRONIZING APPARATUS
Marshall M. Carpenter, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 31, 1950, Serial No. 193,182
4 Claims. (Cl. 250—27)



4. Apparatus for deriving a control voltage indicative of the amplitude and sense of the phase difference between two alternating current voltage waves, one of which occurs in bursts, the other being continuous comprising in combination, first and second terminals, a source of signals in which said bursts occur at predetermined intervals, a storage condenser coupled in series with said source, said series combination being connected between said terminals, a first unilateral current conducting device coupled between said terminals, a second unilateral current conducting device coupled between said terminals and in parallel with said first unilateral device, said first and second unilateral devices being connected so as to pass current in opposite directions between said terminals, means for biasing each of said unilateral current conducting devices to cut off, means for applying said continuous alternating waves in series with each of said unilateral devices, the amplitude of said waves being less than the cut-off bias applied to said unilateral current conducting devices, means for applying keying pulses in series with each of said unilateral devices, said keying pulses being of such polarity as to tend to overcome said cut-off bias applied to each of said unilateral current conduction devices, the amplitude of said keying pulses being such that when combined with the amplitude of said continuous wave, the cut-off bias applied to said unilateral current conducting devices is overcome for a portion of each cycle of said continuous alternating current wave occurring during said keying pulses thus permitting current to flow through one of said unilateral devices and charge said storage condenser in one polarity during a portion of the positive excursion of the alternating current wave occurring in bursts and to flow through the other unilateral current conducting device and charge said storage condenser in the opposite polarity during a portion of the negative excursions of the alternating current wave occurring in bursts so that the net charge on said condenser is dependent on the phase relationship between the alternating current waves occurring in bursts and the continuous alternating current waves.

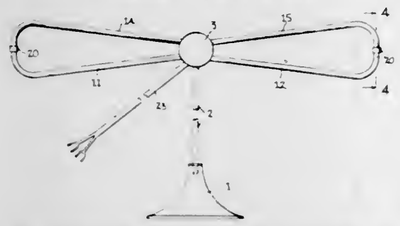
2,666,137
CATHODE-RAY STORAGE TUBE
Frederic Cunningham, Jr., Belmar, N. J., and Alfred G. Emslie, Boston, Mass., assignors, by direct and mesne assignments, to the United States of America as represented by the Secretary of War
Application December 10, 1945, Serial No. 634,079
2 Claims. (Cl. 250—27)



1. A storage circuit for storing electrical energy including a single-beam cathode ray tube of a character adapted to provide an output in response to periodic successive pulses having different amplitudes, and no output for successive pulses having like amplitudes, said tube comprising an evacuated envelope including a cathode,

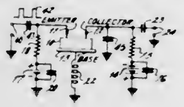
a collector anode and a metallic plate, said plate having one surface thereof coated with an insulating material having a predetermined sticking potential characteristic, an electrical connection from the uncoated surface of said plate to a point external to the envelope of said evacuated tube, an output load impedance electrically connected between said connection and said collector anode, means for forcusing electrons emitted by said cathode into a single beam within said evacuated envelope, said coated surface of said plate being in the path of said single electron beam, means connected to said tube and synchronized with said periodic successive pulses for sweeping the single beam in at least one direction across said plate isochronously with said pulses, means for maintaining the potential between said cathode and said collector anode above a predetermined potential, said predetermined potential being substantially equal to the sticking potential, and means for applying said successive pulses between said cathode and collector anode.

2,666,138
ANTENNA
Edward J. Ehrbar and Raymond W. Cronshey, Cleveland, Ohio, assignors to The Radiart Corporation, Cleveland, Ohio, a corporation of Ohio
Application May 25, 1950, Serial No. 164,101
7 Claims. (Cl. 250—33)



1. An antenna for television purposes and the like, comprising a base, a mast, a pair of connected discs of insulating material mounted on said mast and disposed with their axes in a substantially horizontal plane, a pair of dipole elements mounted in said discs with their inner ends in spaced relation from each other, a second pair of dipole elements mounted in said discs above said first-named pair, and with their inner ends in spaced relation from each other, and an inductance coil disposed within said discs, in the space between said second pair of dipole elements, and having its ends connected to said second pair of dipole elements.

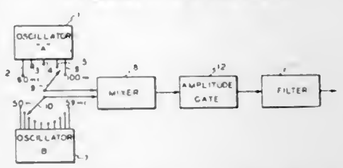
2,666,139
SEMICONDUCTOR RELAXATION OSCILLATOR
Richard O. Endres, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 30, 1949, Serial No. 118,905
16 Claims. (Cl. 250—36)



1. A relaxation oscillator including a semi-conductor device having a semi-conducting body, a base electrode, an emitter electrode and a collector electrode in contact with said body, a source of potential, means for applying a forward bias potential between said emitter and base electrodes, a resistor connected between one terminal of said source and said collector electrode, a capacitor connected in shunt with said resistor, and an inductor connected between said base electrode and the other terminal of said source, said source being so poled as to apply a reverse bias potential between said collector and base electrodes.

4. A relaxation oscillator comprising a semiconductor device having a semi-conducting body, a base electrode, an emitter electrode and a collector electrode in contact with said body, a source of potential, a resistor connected between a terminal of said source and said collector electrode, a parallel resonant circuit connected to the other terminal of said source, said parallel resonant circuit being coupled to said base electrode, said source being so poled as to apply a reverse bias potential between said collector and base electrodes, a capacitor connected in parallel with said source and said resistor, said capacitor being charged relatively slowly in one direction by said source through said resistor and being discharged relatively rapidly in the other direction through said device, and means for applying a forward bias potential between said emitter and base electrodes, the time constant of said resistor and capacitor being approximately equal to the reciprocal of the resonant frequency of said resonant circuit.

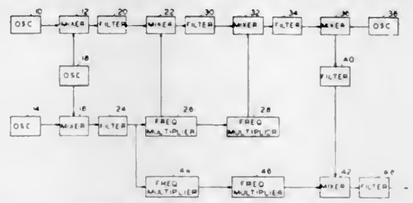
2,666,140
BEAT FREQUENCY OSCILLATOR
Marcel Wallace, Port Chester, Conn.
Application November 16, 1949, Serial No. 127,577
8 Claims. (Cl. 250—36)



1. In combination, providing a plurality of harmonically related frequencies arranged in an arithmetic series, providing a further plurality of frequencies within a band equal in extent to the frequency difference between two adjacent ones of said harmonically related frequencies, mixing a selected one of said harmonically related frequencies with a selected one of said further frequencies, rejecting from the product of the mixing of said plurality of harmonically related frequencies and said further plurality of frequencies and all sum products of conversion of these, and passing a plurality of difference conversion products of each of said plurality of harmonically related frequencies with each of said further plurality of frequencies.

2,666,141
SINGLE SIDE BAND MIXER FOR MOVING TARGET INDICATING RADAR SYSTEMS
James K. Clapp, Cambridge, Mass., Carl P. Spaulding, Pasadena, Calif., and Bob E. Watt, Houston, Tex.; said Watt and said Spaulding assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application May 8, 1946, Serial No. 668,182
4 Claims. (Cl. 250—36)

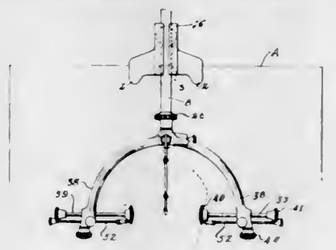
1. In a moving target indication radio object locating system having means for cancelling the indications from targets having a predetermined velocity, V, relative to said radio object locating system, apparatus providing a signal differing in frequency from the frequency of a coherent reference signal of wavelength λ by an amount $F=V/\lambda\pi$, said apparatus comprising first, second, third and fourth signal sources, said first and second sources providing first and second signals differing in frequency by said amount F, said third source providing said coherent reference signal, said fourth source providing a signal of frequency comparable to the frequency of said first and second signals, first mixer means connected to said first and fourth sources providing a fifth signal differing in frequency from said fourth signal by an amount equal to the frequency of said first signal, second mixer means connected to said second and fourth sources providing a sixth signal differing in frequency from said fourth signal by an amount equal to the frequency of said second signal, first frequency multiplier means connected to said second mixer means providing a seventh signal of frequency equal to six times the frequency of said sixth signal, third mixer means connected to said first mixer means and said first frequency multiplier means providing an eighth signal differing in frequency from said seventh signal by an amount equal to the frequency of said fifth signal, second frequency multiplier means connected to said first frequency multiplier means providing a ninth signal of frequency equal to seven times the frequency of said seventh signal, fourth mixer means connected to said third mixer and said second frequency multiplier means providing a tenth signal differing in frequency from said ninth signal by an amount equal to the frequency of said eighth signal, fifth mixer means connected to said fourth mixer means and said third source providing an eleventh signal differing in frequency from said third signal by an amount equal to the frequency of said tenth signal, third frequency multiplier means connected to said second mixer means providing a twelfth signal of frequency equal to seven times the frequency of said sixth signal, fourth frequency multiplier means connected to said third frequency multiplier means providing a thirteenth signal of frequency equal to seven times the frequency of said twelfth signal, and sixth mixer means connected to said fifth mixer means and said fourth frequency multiplier means providing a fourteenth signal differing in frequency from said eleventh signal by an amount equal to the frequency of said thirteenth signal whereby said fourteenth signal differs in frequency from said third signal by said amount F.



2,666,142
METHOD OF TESTING BOREHOLE LOGGING INSTRUMENTS
Gerhard Herzog and Karl C. ten Brink, Houston, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application March 28, 1950, Serial No. 152,488
3 Claims. (Cl. 250—43.5)

1. In the testing of a neutron bore hole logging instrument adapted to respond to variations in the hydrogen content of earth formations, the method of simulating conditions of porosity and hydrogen content in the formations surrounding a bore hole, which comprises surrounding said instrument with a mass of sand, varying the amount of hydrogen in the pore spaces of said sand mass while also varying the bulk density of the mass in accordance with the changes in bulk density of the formations which it is desired to simulate, by saturating the mass with a mixture of two liquids, one containing hydrogen and the other having a low capture cross-section for slow neutrons, said last-mentioned liquid having substantially the same density as said sand, varying the proportions of said liquids and noting the response of said instrument when different proportions of said liquids are used.

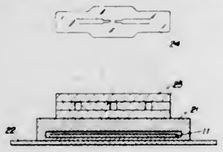
2,666,143
SPINOGRAPH APPARATUS
Joseph Clay Thompson, Davenport, Iowa
Application August 27, 1951, Serial No. 243,875
12 Claims. (Cl. 250—50)



1. In a head clamp for X-ray apparatus having a movable bucky, a clamp adjustably united to the top of the bucky with a flat plate arranged to rest against the front of the bucky and having a vertical grooved carrier united thereto with a rectangular groove formed therein and with lateral flanges at the front thereof, a flat close fitting vertical alignment bar slidingly mounted in the vertical groove, a spring-pressed ball mounted in one side of the carrier arranged to exert a moderate pressure against the alignment bar to hold it in close contact with the opposite side of the carrier, a manually adjustable screw threaded into the back of the carrier with its inner end arranged to exert forward pressure against the alignment bar whereby it may be securely held in contact with the flanges, a round alignment rod having its rear end rigidly united to the alignment bar and its front end extending forwardly at a right angle to the bucky, a longitudinal groove formed in one side of the alignment rod, a yoke having a central head slidingly mounted on the alignment rod with semi-circular lateral arms rigidly united to the head, the head being provided with a longitudinal bore through which the alignment rod passes and also with a vertical chamber in which a wide eye-bolt is mounted with its threaded end extending above and having an eye a little larger than the alignment rod and a thumb knob threaded on the upper end of the bolt whereby the eye-bolt may be caused to exert pressure upon the alignment rod which passes through its eye to lock the yoke in any desired fixed position upon the alignment rod, a block united to the head having a bore at a right angle to the alignment rod with a pin mounted in said bore having a rounded point to

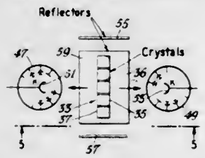
enter and slide in the longitudinal slot in the alignment rod, a helical spring surrounding the pin arranged to exert a light yieldable pressure upon the pin to hold it in said longitudinal groove unless forced out by manual rotation of the yoke on the alignment rod, a terminal member upon each outer end of the yoke arms having a transverse bore in which a rest rod is slidingly mounted carrying a pad upon its inner end to be applied to the cheeks of a patient and a knob upon its outer end for convenient manual adjustment. vertical bores formed in the terminals in which adjusting screws are threaded with oppositely acting threads and having knobs upon their lower ends by which they may be conveniently adjusted simultaneously by corresponding movements of the thumbs of the operator to lock the rest rods and pads in the desired position while holding the tragus rods or to release them, forwardly extending fingers united to the terminals with rotatable stems mounted therein having transverse bores in which tragus rods are slidingly mounted, the inner ends of the tragus rods being fitted with inner pointed tips of neoprene, soft rubber or other flexible material which will not injure the ears of a patient when applied thereto.

2,666,144
ELECTRORADIOGRAPHY
Roland M. Schaffert, Robert C. McMaster and William E. Bixby, Columbus, Ohio, assignors, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio, a corporation of Delaware
Application February 2, 1950, Serial No. 142,024
3 Claims. (Cl. 250—65)



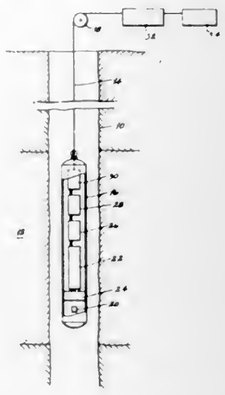
1. The method of electroradiography comprising the steps of charging the surface of a plate having a semiconductive selenium coating, exposing the charged plate to X-ray radiation while an object to be tested is positioned between the X-ray source and the charged selenium plate, dusting the surface of such exposed plate with a resinous material, transferring the image thus produced to a second surface, and fixing such transferred image to said second surface.

2,666,145
LUMINESCENT CRYSTALLINE BODIES
William G. Eversole, Kenmore, Brian O'Brien, East Rochester, and Roger H. Gillette, Kenmore, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application June 18, 1949, Serial No. 99,994
9 Claims. (Cl. 250—71)



5. In a scintillation counter comprising, in combination, a phototube having a light-responsive cathode, and a luminescent crystalline body so positioned as to illuminate said cathode when said crystalline body is exposed to ionizing particles and quanta, the improvement which comprises: providing said crystalline body as a body having light-emitting surface areas facing toward said cathode and a convex surface facing away from said cathode, said body having light-reflecting material on said convex surface, said reflecting material being opaque to light rays but transparent to ionizing particles and quanta to increase the quantity of light leaving said crystalline body toward said cathode.

2,666,146
METHOD AND APPARATUS FOR BORE HOLE LOGGING
Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 17, 1950, Serial No. 150,309
2 Claims. (Cl. 250—83.6)



1. The method of logging a borehole which comprises bombarding the formations surrounding the hole with neutrons whereby gamma rays are emitted in the formations due to nuclear collision of the neutrons with the atoms thereof, producing electrical pulses by said gamma rays entering the borehole, amplifying and equalizing said pulses, reducing the number of the amplified pulses per unit time by a fixed proportion, further amplifying the pulses after they are thus reduced in number, transmitting the amplified reduced number of pulses to the surface, again amplifying the reduced number of pulses at the surface and recording the finally amplified pulses.

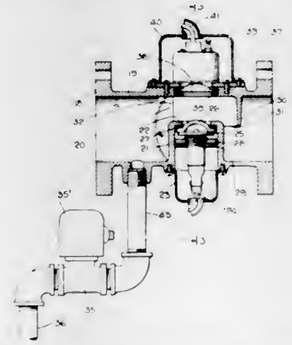
2,666,147
SPECTROMETER
Lyle B. Borst, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application May 14, 1946, Serial No. 669,536
6 Claims. (Cl. 250—217)

1. A radiant energy spectrometer comprising a stationary source of radiant energy, a pivotally mounted crystal reflector having a uniformly arcuate cylindrical reflecting surface having an adjustable radius of curvature, said reflector being positioned to have its reflecting surface concave toward said source, whereby a monochromatic beam of energy will be segregated and focussed by said surface, the pivot axis of said reflector coinciding with an element of said cylindrical surface, and a radiant energy responsive



device disposed at the focal point of the monochromatic reflected beam.

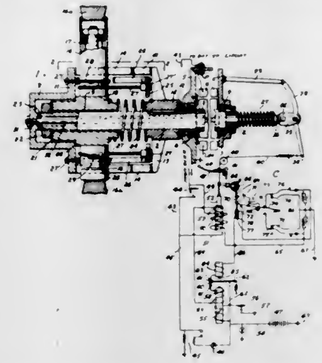
2,666,148
CONTAMINATING CONTROL DEVICE
Abraham A. Arvintz, Bellrose, Nathan A. Arvins, Brooklyn, and Robert A. Arvintz, New York, N. Y., assignors to Sanicom Company, Inc., Brooklyn, N. Y., a corporation of New York
Application February 7, 1951, Serial No. 209,778
4 Claims. (Cl. 250—218)



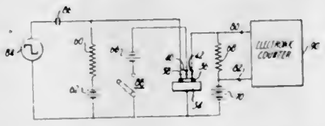
1. A device for use in pipe lines through which fluids or vapors are adapted to pass, said device having electric-eye means actuated upon the presence of discoloration in the fluid or vapor passed through the device, said electric-eye means comprising an electric-eye mechanism mounted on one wall of the device, a light mounted in the opposed walls of the device in alinement with said mechanism, said light being arranged in a housing portion extending into the device, and the first named wall of the device having a baffle encircling the major portion of said housing.

2,666,149
ELECTRIC GENERATOR WITH VARIABLE PROPELLER AND GOVERNING MEANS THEREFOR
Charles Fumagalli, Guatemala City, Guatemala
Application May 1, 1947, Serial No. 745,211
32 Claims. (Cl. 290—44)

18. A winddriven propeller including in combination a non-slidable rotary shaft, a sliding hub carrying variable pitch blades and mounted to reciprocate on the outer surface of the shaft from and back toward a normal propeller starting position, stop means on the shaft for limiting the forward movement of the hub on the shaft, resilient counterforce means acting to normally hold the hub in engagement with the stop means and cooperating with said stop means for normally maintaining the hub in starting position and for yieldingly resisting the rearward sliding movement of the hub, a driving connection between the blades and shaft for driving the shaft responsive to wind thrusts on the blades, said hub being reciprocable on the shaft responsive to varying wind pressures on the blades and to the counteracting force of said resilient means to automatically change the pitch angle of the blades to normally maintain a given speed of the propeller at all wind speeds, a normally stationary shiftable transmission structure supported by the shaft and slidable forwardly on the shaft from a normal position and back to normal position and including shifting elements coupled to the blades to rotate the blades, said elements being operable on the blades in the normal position of said structure and through the backward and forward sliding movements of the hub to adjust the blades between starting and other pitch angles to maintain a given speed of the propeller under wind thrusts on the blades and said elements being shiftable forwardly by said structure for travel and independently of any action on the hub thereon to adjust the blades to arbitrarily change their pitch angles to reduce the propeller speed, a generator driven by the shaft, and electromagnetic means in circuit with the generator and responsive to an action thereof for shifting said transmission structure.



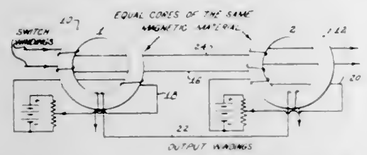
2,666,150
CRYSTAL TETRODE
Robert T. Blakely, Lagrange, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application May 4, 1950, Serial No. 159,963
1 Claim. (Cl. 307—88)



A circuit including a semi-conductor of the crystal type having a base electrode connected to the crystal; a plurality of input electrodes of the whisker type arranged in electrical contact

with the crystal; an output electrode of the whisker type arranged in electrical contact with the crystal and in spaced relation with said input electrodes; circuit means connected between said base and output electrode and responsive to a predetermined output voltage swing, said voltage swing being imposed upon a critical direct voltage; first voltage means connected between said base electrode and at least one of said input electrodes for impressing said voltage swing on said circuit means, said voltage swing being imposed upon a direct voltage less than said critical direct voltage; and second voltage means connected between said base electrode and at least one other of said input electrodes for impressing said voltage swing on said circuit means, said voltage swing being imposed upon said critical direct voltage caused by an automatic shift in the direct voltage in response to a change in the impedance of said crystal, said change in the impedance being caused by said second voltage means.

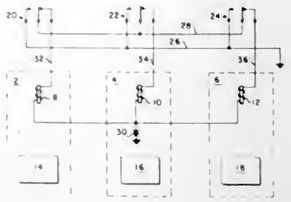
2,666,151
MAGNETIC SWITCHING DEVICE
Jan A. Rajchman and Raymond Stuart-Williams, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application November 28, 1952, Serial No. 322,973
8 Claims. (Cl. 307—88)



8. A magnetic switch including a pair of cores of magnetic material each having substantially the same magnetic characteristic, at least two switching windings inductively coupled to said cores, means to separately and simultaneously excite said switching windings, an output winding coupled to both cores, the sense of the coupling on one core being opposite to the sense of the winding on the other core, a first magnetic bias winding, a second magnetic bias winding, and means to respectively apply a direct current to said first and second magnetic bias windings to magnetically bias said cores to those portions of their magnetic characteristics to provide substantially no resultant output in said output winding when said switching windings are separately excited and to provide a resultant output where said switching windings are simultaneously excited.

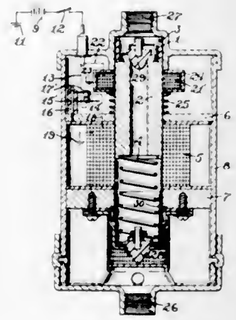
2,666,152
IMPORTANT QUANTITY SELECTING CIRCUIT
Octavio M. Salati, Philadelphia, Pa., assignor to United States of America as represented by the Secretary of the Army
Application January 4, 1952, Serial No. 264,960
2 Claims. (Cl. 307—115)

2. In a switching system the combination comprising a plurality of switches having at least three contact elements; a plurality of two-terminal controlled circuits; and a two-terminal power source, one terminal of each of said circuits being connected to the first terminal of said power source, the other terminal of each of said circuits being connected respectively to the first of said contact elements of each of said switches, the second of said contact elements of each of said switches being connected to the second terminal of said power source, in each of said switches the third of said elements is free to



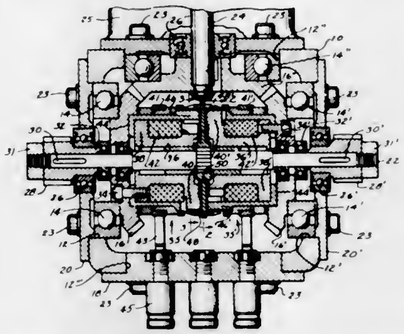
make alternate contact with the first and second element and has a common connection with the third of said elements in all the other of said switches.

2,666,153
RECIPROCATORY ELECTRIC MOTOR
Harland L. McHenry, Sayre, Pa., and Leland C. Parker, Elmira, N. Y., assignors to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware
Application December 22, 1950, Serial No. 202,162
1 Claim. (Cl. 310—34)



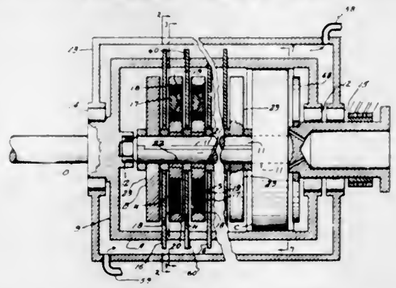
In a reciprocating electromagnetic motor a solenoid, a non-magnetic hollow cylinder fixed in the solenoid and projecting therefrom, a piston of magnetic material slidably mounted in the cylinder and projecting therefrom, an abutment limiting movement of the piston away from the solenoid and thus defining its idle position, a spring urging the piston toward the abutment, a cylindrical casing of magnetic material surrounding the solenoid, annular pole pieces of magnetic material at the ends of the solenoid supporting the solenoid in the casing and providing with the casing a path of low reluctance for the portion of its flux circuit external to the solenoid, an electro-magnet having a casing of magnetic material completing its external flux circuit, slidably mounted on the projecting portion of the cylinder, surrounding the projecting end of the piston and movable therewith by mutual attraction; means limiting movement of the electro-magnet away from the solenoid, a spring urging the electro-magnet away from the solenoid, means for energizing the solenoid including a pair of normally closed contacts, and means responsive to a predetermined movement of the electro-magnet toward the solenoid for opening said contacts.

2,666,154
REVERSIBLE RADIAL AIR GAP EDDY CURRENT CLUTCH
Alfred S. Gutman, Brookline, Mass.
Application May 17, 1951, Serial No. 226,926
5 Claims. (Cl. 310—99)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An eddy current clutch which comprises a hollow housing, an output shaft having rotative bearing in the ends of said hollow housing, a pair of axially spaced apart mitre gears concentrically surrounding and freely rotatable about the axis of said output shaft, an input shaft having bearing in said housing with axis normal to the axis of the output shaft, a third mitre gear on said input shaft in mesh with said pair of axially spaced mitre gears, an ironclad electromagnetic core and coil assembly concentrically secured at the outer end to the inner face of each of the said axially spaced mitre gears with north and south poles at the inner end facing each other, a non-magnetic disc fast on the output shaft between the ends of the pole pieces, said disc having an even number of peripheral notches, sleeves, one on each side of said disc having a continuous surface freely surrounding said pole pieces, said sleeves each having lugs on the inner edges extending into the peripheral notches in said discs, said continuous surfaces forming eddy current members so that upon being energized the sleeve will drive said non-magnetic disc and output shaft.

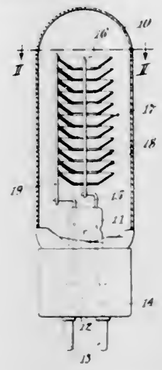
2,666,155
ELECTROMAGNETIC TRANSMISSION
Martin N. Kaplan, Beloit, Wis.
Application February 3, 1951, Serial No. 209,294
5 Claims. (Cl. 310—105)



1. In an electro-magnetic transmission of the character described comprising in combination, elongated driving and driven elements, the driving element including a shaft and the driven element being concentrically positioned around the driving shaft and rotatably mounted at its ends on the driving shaft, spaced apart plates and spacing means for said plates secured to said driving shaft, a number of groups of magnets secured to said spacing means, the magnets of each group being mounted circumferentially in spaced relation, the magnets of said groups of magnets being arranged in longitudinal groups in spaced relation with said plates, forming narrow air gaps therebetween and forming magnetic circuits through the magnets, air gaps, plates and spacing means, said driven element having secured thereon thin annular discs having high electric conductivity and being freely positioned in said air gaps.

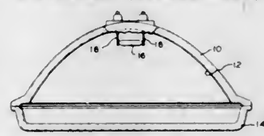
2,666,156
WITHDRAWN

2,666,157
RADIATION DETECTOR
Charles Herbert Gleason, Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 30, 1951, Serial No. 259,043
2 Claims. (Cl. 313—93)



1. A radiation detector comprising an anode and a cathode adjacent thereto, said cathode providing a plurality of interlapping interceptors with passageways between adjacent interceptors from exterior to interior of the cathode, direct line paths through one part of the cathode being blocked by other parts of the interceptors, said interceptors viewed from the exterior of the cathode on lines radial to the anode having greater exposed area than interlapping area.

2,666,158
ELECTRIC PROJECTION LAMP
Dexter P. Cooper, Jr., Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application July 12, 1951, Serial No. 236,411
5 Claims. (Cl. 313—113)



1. A radiation projecting device comprising a concave metal reflector which is substantially a

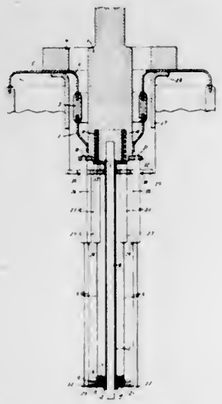
surface of revolution and which has a focus, an hermetically sealed light-transmitting envelope, a crimped ribbon filament mounted in said envelope, the peaks of adjacent crimps being substantially parallel and closely adjacent with the crimp depth greater than the distance between adjacent peaks, and means positioning said filament substantially at the focus of said reflector with the long axis of said filament perpendicular to the axis of said reflector and the broad dimension of said filament parallel to the plane defined by said axes.

2,666,159

SORPTION TYPE GETTER STRUCTURE

Robert I. Reed, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application August 8, 1951, Serial No. 240,915
5 Claims. (Cl. 313—174)



1. For use in an evacuated electric discharge device, a cathode and gettering structure comprising a first terminal member, a second terminal member insulated from said first terminal member, a support post mounted at one end thereof on said first terminal member and extending from said first terminal member, an insulating member mounted on the other end of said support post, an annular getter element of a material which readily takes up gases at elevated temperatures mounted transversely on said insulating member, a support plate mounted on said insulating member in spaced relation to said getter element and oriented in a plane transverse to the axis of said post, a plurality of emissive filamentary wires secured at one end of each to the periphery of said support plate, the other ends of a first half of said wires being secured and connected to said first terminal member and the other ends of the remaining half of said wires being secured and connected to said second terminal member, said getter element being located within the array of said filamentary wires.

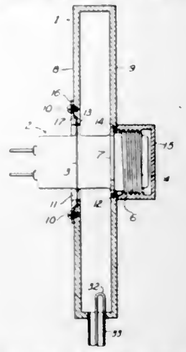
2,666,160

DISK SEAL TUBE

Robert M. Bowie, Manhasset, N. Y., assignor to Sylvania Electric Products, Inc., a corporation of Massachusetts

Application June 24, 1946, Serial No. 678,825
14 Claims. (Cl. 315—5)

7. An electron tube including an envelope, a disc terminal sealed through said envelope, and a threaded collar carried by said envelope and connected to said disc terminal for urging said



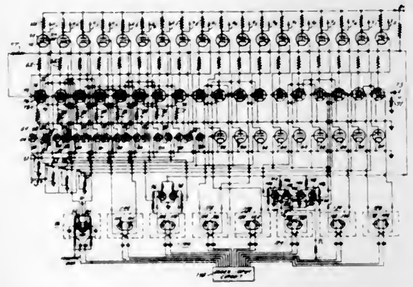
terminal into direct contact with a wall of a cavity resonator.

2,666,161

BIAS GENERATING MATRIX

Jan A. Rajchman and Max H. Mesner, Princeton, and Milton Rosenberg, Trenton, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application December 1, 1949, Serial No. 130,412
6 Claims. (Cl. 315—13)



1. The combination of a target area selection type of tube having a grid mesh including a plurality of separately insulated conductors upon which bias voltages are placed to determine the target area selected, and a bias voltage generating matrix for said grid mesh, said matrix including a plurality of bias generating vacuum tubes coupled to said conductors, said tubes each having two conditions of conductivity, a plurality of first means coupled to said plurality of bias generating vacuum tubes to determine their condition of conductivity, and a plurality of second means coupled to said plurality of bias generating tubes to determine the response of each of said tubes to said first means.

2,666,162

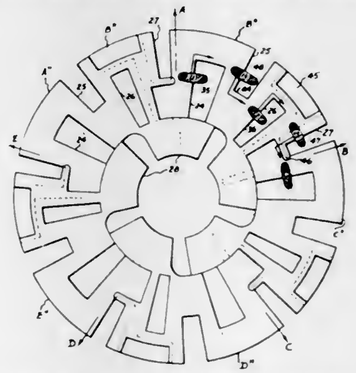
ELECTRONIC COUNTING DEVICE

David Lipscombe Hollway, Gordon, New South Wales, and Arthur Melville Thompson, Mosman, New South Wales, Australia, assignors to Commonwealth Scientific and Industrial Research Organization, East Melbourne, Victoria, Australia

Application September 6, 1950, Serial No. 183,318
Claims priority, application Australia October 21, 1949
18 Claims. (Cl. 315—21)

1. An electronic vacuum tube counter comprising means for generating an electron beam,

at least three deflecting electrodes arranged substantially around the circumference of a cylinder, a first set of electron-collecting electrodes disposed substantially in the same plane and equal in number to the number of deflecting electrodes, each electron-collecting electrode of this first set being apertured and slotted and approximately of sector shape, a second set of electron-collecting electrodes behind the first set disposed substantially in the same plane and equal in number to the number of deflecting electrodes, each electron-collecting electrode of this second set being approximately of sector-shape, connections between each deflecting elec-



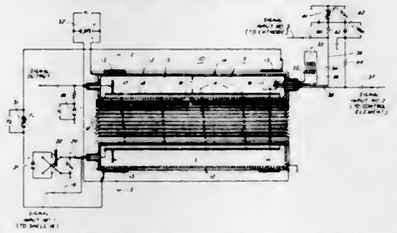
trode, corresponding electron-collecting electrodes of the first set, and corresponding electron-collecting electrodes of the second set which are in space-phase relationship to the corresponding electrodes of the first set, resistances between the anode supply and each deflecting electrode, a ring-shaped electrode between the deflecting electrodes and electron-collecting electrodes for stabilizing the electron beam radially and a triggering electrode for moving the electron beam radially in response to a counting signal so that substantially all the beam falls on electrodes of one of said sets only.

2,666,163

ELECTRON DEVICE WITH LONG ELECTRON PATH

Albert M. Clogston, Morris Plains, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 29, 1951, Serial No. 264,018
13 Claims. (Cl. 315—21)



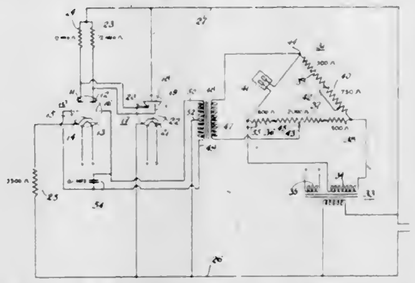
1. A cathode-ray device comprising an annular evacuated chamber, an electron gun near one end of said chamber, a collecting electrode near the other end of said chamber, and means for directing electrons from said gun to said collecting electrode in a helical path through said chamber, said means including a metallic cylinder within said chamber extending from the vicinity of said gun to the vicinity of said collector.

2,666,164

ELECTRONIC CONDUCTIVITY METER

Kurt Albrecht, Pleasant Hills Borough, Pa., assignor to Hall Laboratories, Inc., Pittsburgh, Pa., a corporation of Pennsylvania

Application September 29, 1948, Serial No. 51,662
2 Claims. (Cl. 315—26)



1. A circuit for controlling the selective energization of diametrically opposite portions of the target in a cathode ray tube, having a control electrode for each portion of the target and a heated cathode, comprising a high μ twin triode tube, a resistor connected to each plate of the triode tube, the opposite side of each of said resistors being connected together and being adapted for connection to the same side of an alternating current voltage supply source, said twin triode tube having a cathode and a heater therefor, and a control grid for each plate, said cathode being connected to one side of a resistor of relatively high ohmic value, the other side of said resistor being adapted for connection to the other side of said voltage supply, the cathode ray tube having its target connected to the supply voltage side of the plate resistors of the twin triode tube, and its control electrodes connected respectively to the plate sides of said triode plate resistors, the heated cathode of said cathode ray tube being connected to the voltage supply side of the heated cathode of the triode tube, the control grids of said triode tube having a condenser connected across the same, a mid-tap transformer winding, the opposite sides of said condenser being connected to the respective end terminals of said transformer winding and the mid-tap thereof being connected to the same side of the voltage supply that the heated cathode of the cathode ray tube is connected, and means for reversing the phase of the voltage induced in said transformer winding whereby one or the other of said target portions is illuminated and that when the voltages from said mid-tap to the opposite terminals of the transformer are equal the target portions of said cathode ray tube have equal but minimum energization.

2,666,165

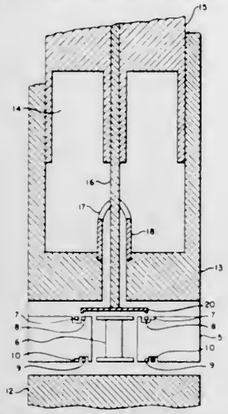
TUNABLE MAGNETRON OSCILLATOR

Franklin Hutchinson, New Haven, Conn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application January 3, 1946, Serial No. 638,883
7 Claims. (Cl. 315—40)

1. In a magnetron oscillator a segmented anode electrode, at least one strip of conducting material joining at least a portion of said anode segments, a conducting member in spaced relationship with respect to said anode electrode and which is movably positioned adjacent to said conducting strip, said conducting member being capacitively coupled to said conducting strip; a cavity resonator, and means coupling said con-

ducting member to said cavity resonator whereby the frequency of oscillations created in said mag-



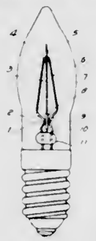
netron oscillator is determined by the resonant frequency of said cavity resonator.

2,666,166

ELECTRIC LAMP WITH CURRENT BRIDGE

Selfrid Gunnar Öhlund, Enskede, Sweden

Application June 5, 1951, Serial No. 229,887
Claims priority, application Sweden June 5, 1950
3 Claims. (Cl. 315—75)



1. An electric lamp comprising a filament, metallic feed wires to which the ends of said filament are welded, said wires being bent to close proximity to each other at a given place and a body of metal having a thin surface layer of insulating material thereon resiliently clamped between said wires at said given place with substantially point contacts between the plate and the respective wires.

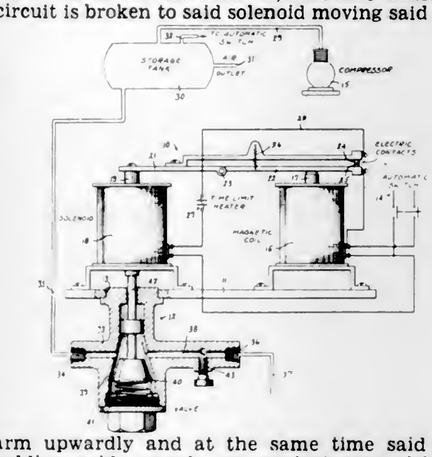
2,666,167

ELECTRICAL ACTUATION MEANS FOR VALVES OR THE LIKE

Russell C. Churchman, deceased, late of Des Moines, Iowa, by Nellie Churchman, executrix, Polk County, Iowa

Original application October 29, 1945, Serial No. 625,225. Divided and this application February 15, 1951, Serial No. 211,156
8 Claims. (Cl. 317—141)

1. In combination with a main electric circuit used to operate a separate device, said circuit provided with a switch means, an electrical actuation means, comprising, a magnetic coil connected electrically to said main circuit and magnetized when the main switch is closed, a solenoid with a movable core, a first arm rigidly secured to said core, a contact point on said first arm, a second arm hingedly secured to said first arm, a contact point on said second arm capable of engagement with the contact point on said first arm, yielding means normally urging said contact points into engagement, said solenoid electrically connectible to said main circuit through said contact points, a time control means disposed in the electrical connection intermediate said solenoid and said contact points for breaking the electrical circuit to said solenoid, said core when the circuit is broken to said solenoid moving said first



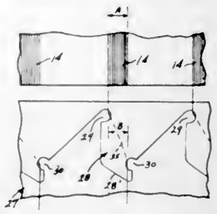
arm upwardly and at the same time said coil holding said second arm against said yielding means so that engagement between said contact point is broken, and said coil losing its magnetism when said switch is open whereby said yielding means returns said contact points to engagement with each other.

2,666,168

MANUFACTURE AND CONSTRUCTION OF ELECTRICAL COILS

Lionel Lorant, Long Island City, N. Y., assignor to Super Electric Products Corp., Jersey City, N. J., a corporation of New Jersey

Application October 18, 1949, Serial No. 122,020
3 Claims. (Cl. 317—222)



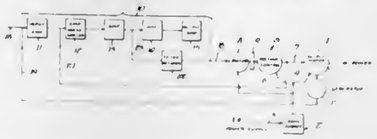
1. The method for making an electric coil of the type built up of concentric helixes wound in the same direction, made by winding a continuous wire to form superimposed layers of turns, which consists of winding a layer of turns, then taking a paper-like sheet of insulative material and providing a tab thereon to hang from the region of its top edge, then forming a cut-in in each side edge of said tab so that the width of the longitudinal lane along the said tab between the inner ends of said cut-ins is equal to the length of the layer wound, then placing the sheet between the wire being fed and the coil, so that a side edge of the tab is adjacent said wire being fed, then placing the wire across the tab between the sheet and tab and within both cut-ins to position and secure the wire onto the tab, then placing the sheet so that the longitudinal edges of said lane on the tab are in alignment respectively with the first and last turns of the layer wound and then winding a second layer of turns onto the first layer in the same direction as the first layer was wound so that the tab and sheet are held between the layers.

2,666,169

PLURAL ELECTRIC MOTOR FOLLOW-UP SYSTEM

John R. Jarvis, Springfield, Ill.

Application December 20, 1948, Serial No. 66,340
16 Claims. (Cl. 318—19)



1. In a device of the kind described, the combination of a 2-phase induction motor, the rotor of said motor being of solid construction to provide maximum torque at standstill, an autotransformer adapted to be connected across one phase of a 3-phase power supply line, means for connecting one phase winding of said motor to the center tap of said transformer and the third phase of said power line, said auto-transformer having a plurality of additional taps, the voltage differential between adjacent taps being uniform, a commutator device including a plurality of commutator segments, the number of which corresponds to the number of taps on said transformer winding with the latter connected to corresponding segments and a brush adapted to contact any one of said segments, means connecting the other phase winding of said motor to the center tap of said transformer and to said brush whereby the position of the latter relative to said segments will determine the phase relation and amplitude of the voltage applied to said second winding, a second 2-phase induction motor having characteristics similar to that of the first motor, reduction gearing operatively connecting the drive shaft of said second motor to said brush for moving the latter relative to said segments, an overload clutch interposed between said reduction gearing and said brush, said second motor having one phase winding thereof operatively connected to said transformer to apply a relatively fixed voltage thereto, an electronic amplifier, the output circuit of which is operatively connected to the other phase winding of said second motor, said amplifier including means for producing a 90° phase shift in the output voltage thereof relative to the input voltage thereto and means for attenuating frequencies other than 60 cycle in the output of said amplifier, means for applying an initial control voltage to the input of said amplifier, an alternating current voltage producing means operatively connected to and actuatable by said first motor, means for operatively connecting the voltage output of said voltage producing means to the input of said amplifier 180° out of phase with respect to said initial control voltage and means operatively connecting said brush and said amplifier to feed back a portion of the brush voltage into said amplifier, in electrical time phase with respect to the output voltage of said voltage producing means.

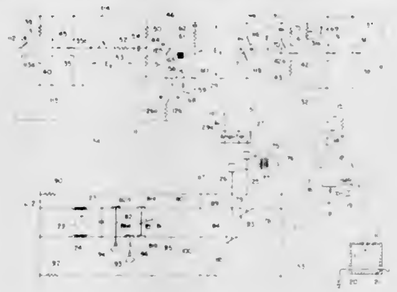
2,666,170

RATE AND RESET REBALANCEABLE CONTROL SYSTEM

Elwood T. Davis, Havertown, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 15, 1950, Serial No. 149,775
31 Claims. (Cl. 318—28)

2. A control system including a device for controlling the magnitude of a characteristic upon departure from a predetermined value including a valve slidewire, a reset capacitor, and a charging circuit between said valve slidewire and said reset capacitor including resistance of relatively high value, a charge-limiting circuit for said capacitor including a source of potential and a rectifier connected therein with a polarity such that its impedance is low in the forward direc-



tion as compared with the impedance of said charging circuit for flow of current to said capacitor in a charge-reducing direction whenever the charge exceeds a predetermined value, said rectifier having a high impedance to current flow in the reverse direction to limit flow of charging current to said capacitor by way of said charging circuit.

2,666,171

ELECTRIC MOTOR CONTROL SYSTEM WITH REDUCED CROSS-DEPENDENCE OF CONTROL EFFECTS

Albert J. Williams, Jr., Philadelphia, and Richard E. Watson, Chesney Downs, Pa., assignors to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 28, 1951, Serial No. 244,002
17 Claims. (Cl. 318—28)



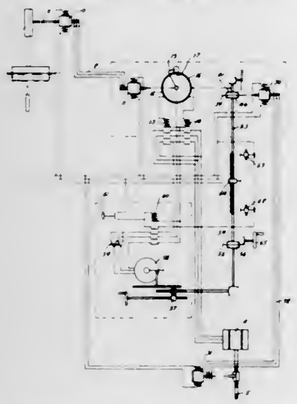
1. A control system having an amplifier responsive to changes in an electrical quantity applied to its input circuit for controlling the adjustment of a compensating means upon deviation of a condition under control comprising a source of voltage adjustable with adjustment of said compensating means, said adjustable source of voltage having in series therewith a network including a reset capacitor, a rate resistor, and a resistance termination for said network including a reset resistor, said reset resistor being shunted by a branch including a rate capacitor, and connections for applying at least a portion of the potential drop across said resistance termination to said input circuit in opposition to an electrical quantity applied thereto in response to a deviation in said condition.

2,666,172

ELECTRIC MOTOR FOLLOW-UP SYSTEM FOR THE ADJUSTMENT OF LIQUID LEVELS

Victor Génini and Marcel Latapie, Paris, France, assignors to Etablissements St. Chamond-Granat, Paris, France, a company of France

Application August 6, 1947, Serial No. 766,802
In France November 17, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires November 17, 1963
10 Claims. (Cl. 318—31)



1. In an electric control system, a movable member of varying position, a follow-up device comprising a followed movable member and a follower, an electric transmission form said movable member to said followed member and whereby the latter is given a position depending upon that of said movable member, a regulating member, an electric motor adapted to actuate the latter, an electric circuit adapted to feed said motor and controlled by said follow-up device so as to be open for at least one predetermined relative position of the followed member and of the follower, motion transmitting means from said motor to said follower, and adjusting means arranged to interfere with at least one of the operative connections of said follow-up device with said movable member and regulating member, respectively, whereby to vary the position of said regulating member for at least one end position of said movable member and consequently the control action of the system.

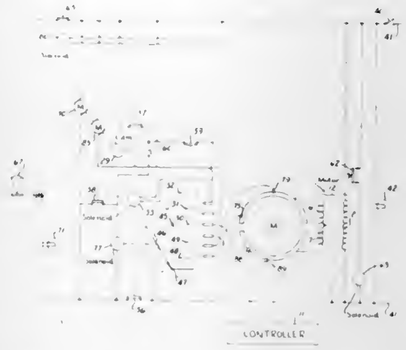
2,666,173

ELECTRIC MOTOR POSITIONED ACCORDING TO TIME-TEMPERATURE SCHEDULE

Ralph C. Davis and Herbert H. Deist, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application December 16, 1948, Serial No. 65,566
3 Claims. (Cl. 318—162)

1. A device for the regulation of control apparatus to effect a sequence of settings of said apparatus at preselected time intervals, said device having in combination, a reversible motor of the type adapted for controlled rotation in either direction through predetermined arcs, means for controlling the rotation of said motor including an energizing circuit and an energizable multiple circuit switch in said circuit adapted for step-by-step actuation in response to sequential energization, control circuit means for the energization of said switch, means connecting said multiple circuit switch to said motor in a manner whereby the step-by-step operation of said switch effects a plurality of motor rotations through preselected arcs, means comprising an electrical switch operable in response to a cam lever, a rotatable cam disc mounted on a shaft adapted for constant speed rotation, said cam disc provided with circumferentially spaced lugs to define a cycle of operation for said electrical switch by the actuation of said lever, and means for re-



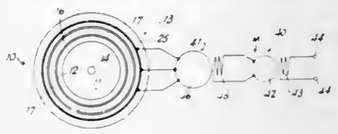
setting said cam disc for repetition of said cycle of operation, means connecting said lever actuated switch and said multiple circuit switch in an electrical network for the periodic energization of the multiple circuit switch in response to the timed closing of said lever actuated switch, and means for translating the controlled rotation of said motor to linear displacement to effect regulation of said control apparatus.

2,666,174

SYNCHRONOUS MOTOR

Joseph M. Pestarini, Staten Island, N. Y.

Application February 8, 1951, Serial No. 209,953
6 Claims. (Cl. 318—172)



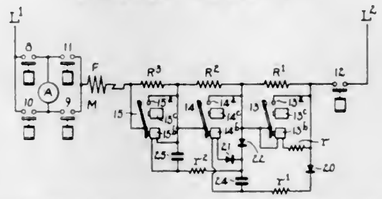
1. In combination, an alternating current motor comprising a plurality of concentric members rotatable relative to each other, at least one of said members including a polyphase winding, another of said members including magnetic material, and a third member located intermediate said first and second mentioned members including a plurality of successively spaced groups of conductors connected in closed circuit, said groups of conductors being equiangularly displaced from one another and being equal in number to the number of poles of said winding, and means for supplying said winding with a system of sequential currents having substantially an intensity equal to the product of a constant, the sine of a first pulsation and the sine of a second pulsation different from the first pulsation, each current differing from a preceding current by an angular lag in one pulsation of said current proportional to the angular displacement of any pair of the successive polyphase windings.

2,666,175

CONTROLLER FOR ELECTRIC MOTORS AND OTHER TRANSLATING DEVICES

Edwin W. Seeger, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Continuation of application Serial No. 170,445, June 26, 1950, which is a continuation of application Serial No. 700,148, September 28, 1946. This application June 29, 1953, Serial No. 364,581
12 Claims. (Cl. 318—274)



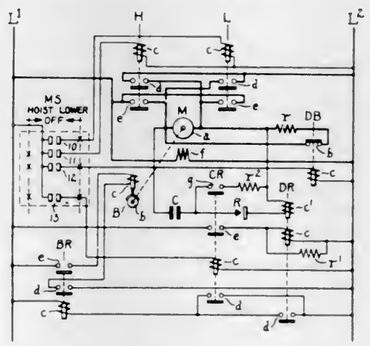
4. In combination, a translating circuit having means to effect its energization, a first control switch for said circuit, a second control switch for said circuit having operating means and a winding which upon energization of said circuit is energized by current derived from said circuit and when so energized effecting restraint of said second switch against operation, said first switch being operable while said second switch is so restrained, and said first switch when operated effecting shunting of said winding of said second switch, a capacitor in parallel with said winding for charging when said winding is energized and for discharging when said winding is shunted, and rectifying means confining discharge of said capacitor to a path including said winding.

2,666,176

ELECTRIC MOTOR BRAKING SYSTEM

Douglas W. Fath, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Continuation of application Serial No. 553,151, September 8, 1944. This application June 29, 1953, Serial No. 364,617
12 Claims. (Cl. 318—367)



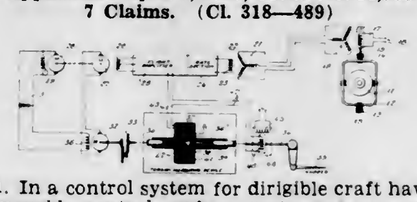
1. The combination with a direct current electric motor, direct current power supply and means to connect said motor to said power supply and to disconnect said motor from said supply, of a condenser, an electroresponsive control instrumentality having a control winding, a series circuit for said condenser and said control winding extending across the terminals of the armature of said motor and means to establish and interrupt charging connections between said condenser and said power supply, the last mentioned means being controllable by the first mentioned means and said last mentioned means upon terminating charging of said condenser rendering said condenser dischargeable through said series circuit for excitation of said control winding varying with the rate of change in speed of said motor.

2,666,177

SERVOMOTOR SYSTEM HAVING DIFFERENTIAL TORQUE DISPLACEMENT FEEDBACK

Richard S. Brannin, Jr., East Williston, and Percy Halpert, Hempstead, N. Y., assignors to The Sperry Corporation, a corporation of Delaware

Application April 1, 1949, Serial No. 84,938
7 Claims. (Cl. 318—489)



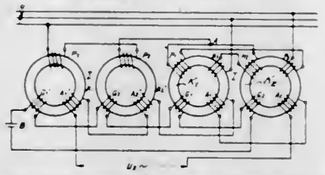
1. In a control system for dirigible craft having a movable control surface, motor means operatively connected to said surface, means providing an error signal proportional to deviation of the craft from its normal attitude, means producing a second signal proportional to the torque exerted by said motor in displacing said control surface, means for producing a third signal proportional to the displacement of said control surface, said second and third signals being connected to oppose said first signal, and motive means actuated by said combined signals for moving said surface.

2,666,178

FREQUENCY MULTIPLIER

Werner Krämer, Frondenberg-Ruhr, Germany, assignor to Licentia Patent-Verwaltungs-G. m. b. H., Hamburg, Germany, a corporation of Germany

Application October 7, 1950, Serial No. 188,966
6 Claims. (Cl. 321—7)



1. An arrangement for transforming a three-phase current having a predetermined frequency into a single-phase current having twice the predetermined frequency, comprising in combination, a three-phase mains carrying a current having the predetermined frequency; a first core; a second core; a third core; a fourth core, said cores each consisting of a magnetic material; biasing windings supplied with direct current and connected in series adding and arranged on said cores, respectively, for establishing in each of said cores a constant pre-magnetization; a first primary winding arranged on said first core and connected with one end thereof to a first phase of said three-phase mains; a second primary winding arranged on said second core and connected with one end thereof in series and in opposition to the other end of said first primary winding; a third primary winding and a fourth primary winding arranged on said third core; a fifth primary winding and a sixth primary winding arranged on said fourth core, said

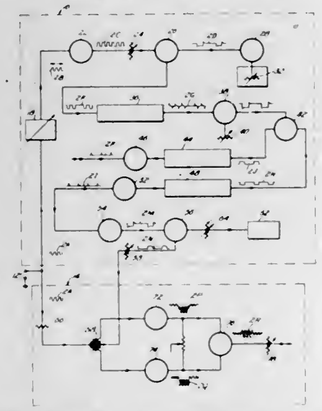
third primary winding being connected at one end in series and opposition to one end of said sixth primary winding, the other end of said sixth primary winding being connected to a second phase of said three-phase mains, said fifth primary winding being connected at one end in series and opposition to one end of said fourth primary winding, the other end of said fourth primary winding being connected to the third phase of said three-phase mains, the other ends of said third primary winding and said fifth primary winding having a junction connected to the other end of said second primary winding; four secondary windings arranged, respectively, on said four cores and connections between said secondary windings connecting the secondary windings arranged on said first and second cores in series adding, and the secondary windings of said third and fourth cores in series adding, said secondary windings arranged on said first and second cores being connected to said secondary windings arranged on said third and fourth cores in series opposing.

2,666,179

TRANSIENT ANALYZING SYSTEM

Donald E. Maxwell, New Canaan, Conn., assignor to General Electric Company, a corporation of New York

Application October 29, 1948, Serial No. 57,215
7 Claims. (Cl. 324—57)



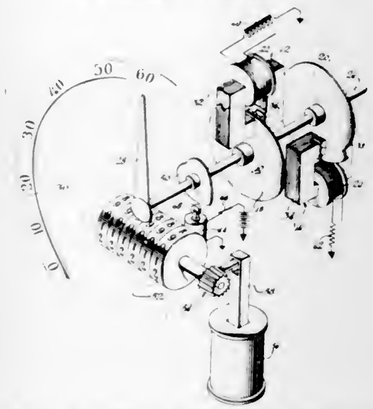
3. Apparatus for use in measuring the characteristics of wave-handling apparatus comprising a signal generator, an electronic switch coupled to said signal generator, a synchronizing and switching pulse generator coupled to said signal generator for controlling the action of said electronic switch, said synchronizing and switching pulse generator comprising a square wave generator actuated by the signal from said signal generator and producing a square wave bearing a predetermined synchronized relationship thereto, a gating circuit including a first pulse generator and coupled to the output of said square wave generator and selectively passing spaced groups of said square waves in accordance with the signals from said first pulse generator, a first differentiator circuit for differentiating said groups of square waves and producing spaced groups of control pips, a second pulse generator controlled by predetermined pips in each of said groups, a second differentiator circuit coupled to said second pulse generator and producing a first and second series of spaced synchronizing pips, and a third pulse generator controlled by said first series of synchronizing pips and having an output circuit coupled to said electronic switch whereby the magnitude of the signal from said signal generator is controlled by the output of said third pulse generator, the output of said electronic switch being coupled to said wave-handling apparatus the characteristics of which are to be measured, an indicator coupled to the output of said wave-handling apparatus, and a circuit coupling said second series of synchronizing pips to said indicator.

2,666,180

ELECTRICAL INDICATOR

Merlin Petroff, Round Lake, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application March 29, 1948, Serial No. 17,697
2 Claims. (Cl. 324—78)



1. In a frequency meter, the combination of rotatable means including first and second electrically conductive plates, a first and a second induction motor means embracing portions of the plates respectively to produce clockwise and counterclockwise torques on the rotatable means, the first plate being shaped so that the radial width of the portion embraced by the first motor means decreases progressively with rotation of the plate in a clockwise direction for more than 90°, the second plate being shaped so that the radial width of the portion embraced by the second motor means decreases progressively with rotation of the plate in a counterclockwise direction for the same number of degrees as said first plate, the plates being positioned with their centers of gravity substantially 180° apart to balance the rotatable means.

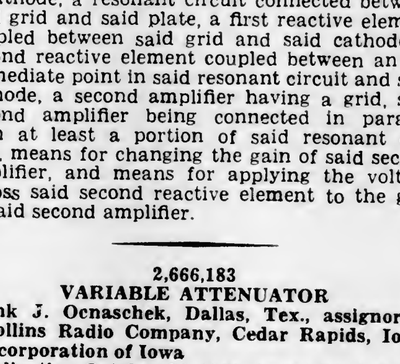
2,666,181

PHASE MODULATION SYSTEM

Emmanuel P. Courtillot, Paris, France, assignor to General Electric Company, a corporation of New York

Application August 31, 1949, Serial No. 113,465
Claims priority, application France September 23, 1948
7 Claims. (Cl. 332—23)

1. A selector circuit for transmitting a first applied signal when the instantaneous amplitude of a second applied signal occurs between two discrete levels, comprising a pair of unilaterally conducting devices each having a pair of unlike poles, a common connection between one pair of unlike poles in said devices, said signals being applied across the other pair of unlike poles, said first signal being applied directly and said second signal being applied through a series impedance, a first source of bias voltage connected through an impedance to said common connection for polarizing one of said devices so that it conducts and transmits said first signal when the amplitude of said second signal exceeds one of said discrete levels, and a second source of bias



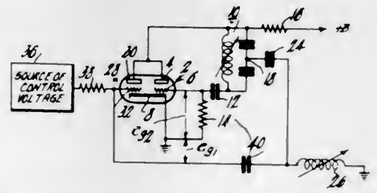
voltage for polarizing said other device so that it conducts and short-circuits said first signal when the amplitude of said second signal exceeds the other of said discrete levels, said first signal being recovered at said common connection.

2,666,182

FREQUENCY CONTROL APPARATUS

Eugene O. Keizer, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 19, 1950, Serial No. 185,627
5 Claims. (Cl. 332—28)



1. An apparatus for controlling the frequency of an oscillator comprising in combination a first amplifier having at least a plate, a grid and a cathode, a resonant circuit connected between said grid and said plate, a first reactive element coupled between said grid and said cathode, a second reactive element coupled between an intermediate point in said resonant circuit and said cathode, a second amplifier having a grid, said second amplifier being connected in parallel with at least a portion of said resonant circuit, means for changing the gain of said second amplifier, and means for applying the voltage across said second reactive element to the grid of said second amplifier.

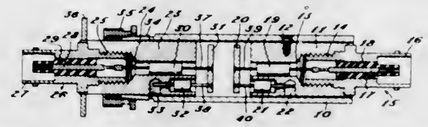
2,666,183

VARIABLE ATTENUATOR

Frank J. Ocnaschek, Dallas, Tex., assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application October 15, 1952, Serial No. 314,804
4 Claims. (Cl. 333—81)

1. A variable impedance and coupling device comprising, a hollow conducting cylindrical member, a first internal conducting plug received within one end of said cylinder, said first plug formed with an axial opening, a first coaxial connector connected to said first plug, a first resistor mounted within the axial opening of said first plug and connected to the center conductor of said coaxial cable connector, a first capacitive plate attached to the opposite side of said first resistor, a second resistor with one end attached to said first plug and the opposite end connected



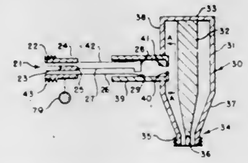
to said first capacitive plate, a second plug rotatably and slidably supported in said cylinder and formed with an axial opening, a third resistor mounted within the axial opening of said second plug, a second capacitive plate attached to one side of the third resistor, a second coaxial connector connected to said second plug, and a fourth resistor connected between said second plug and said second capacitive plate.

2,666,184

MICROWAVE ATTENUATOR

Stephen G. Sydoriak, New Haven, Conn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application May 8, 1946, Serial No. 668,149
8 Claims. (Cl. 333—81)



1. A radio frequency attenuator comprising a section of coaxial transmission line having an outer conductor and an inner conductor, an attenuating tube, said tube being joined to said outer conductor, an iris coupling means between said line and the end of said tube joined to said line, said iris coupling means including an apertured disc for only passing energy in the $TE_{1,1}$ mode, a slider tube having a flared section at the inside end and adapted to slide inside said attenuating tube, a center conductor concentrically spaced inside said slider tube, said conductor being terminated at its inside end by a loop, means for adjusting the position of said slider tube with respect to said attenuator tube, coupling means at the outer end of said slider tube, and coupling means at one end of said line.

2,666,185

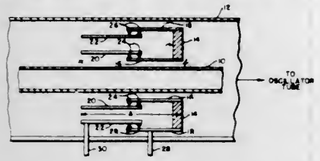
TUNING PLUNGER FOR A COAXIAL LINE TYPE ULTRAHIGH-FREQUENCY CIRCUIT

George E. Hulstede, Belmont, Calif., and John G. Stephenson, Mineola, N. Y., assignors to the United States of America as represented by the Secretary of War

Application February 18, 1946, Serial No. 648,534
11 Claims. (Cl. 333—97)

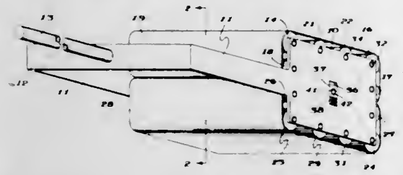
6. In combination, a coaxial line, and a plunger for short-circuiting said coaxial line, said plunger comprising a conductive annular element disposed between the concentric conductors of said coaxial line and electrically insulated from at least one of said conductors, and first and

second cylinder elements disposed between the conductors of said coaxial line and coaxially disposed about the center conductor of said coaxial line nearer to said one conductor than to the other of said conductors, one end of said first cylinder element being electrically connected to one end of said annular element, one end of said second cylinder element being electrically



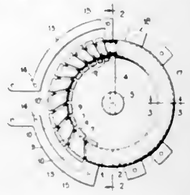
connected to the other end of one of the two other of said elements, the lengths of said cylinder elements being respectively equal to approximately one-fourth of an electrical wavelength at a first given frequency, and one end of at least one of said cylinder elements extending beyond a face of said annular element by a distance approximately equal to one-fourth of an electrical wavelength at a second given frequency.

2,666,186
SHORTING PLUNGER
Winston F. Williams and Edwin N. Phillips, Cedar Rapids, Iowa, assignors to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application March 27, 1951, Serial No. 217,787
2 Claims. (Cl. 333—98)



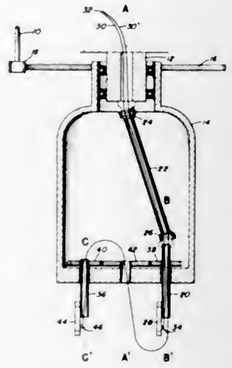
1. A shorting plunger for a rectangular wave guide comprising, a pair of generally rectangular end plates received within said wave guide with the plane of said end plates being normal to the long sectional axis of said wave guide, a first roller rotatably supported between said end plates adjacent their upper edges so that a portion of the roller's periphery extends above the end plates, a second roller rotatably supported between the end plates longitudinally displaced from the first roller and a portion of the second roller extending above the edge of the end plates, third and fourth rollers rotatably supported between the end plates adjacent the longitudinal center line of the end plates, fifth and sixth rollers supported between the end plates below the third and fourth rollers, seventh and eighth rollers rotatably supported between the end plates near the lower corners thereof with a portion of their peripheries extending down below the end plates, said third and fifth rollers mounted directly below the first roller on a line transverse to the axis of the wave-guide, a first flexible conducting belt rotatably supported by said first, second, third and fourth rollers, a second flexible conducting belt rotatably supported by the fifth, sixth, seventh and eighth rollers, said first and second belts in contact between the third and fifth and fourth and sixth rollers, and means for moving said plunger connected to said end plates and extending longitudinally of the wave guide.

2,666,187
VARIABLE INDUCTANCE
Lyman G. Ketcham, Summit, N. J., assignor to Automatic Manufacturing Corporation, Newark, N. J., a corporation of New Jersey
Application June 28, 1949, Serial No. 101,713
11 Claims. (Cl. 336—136)



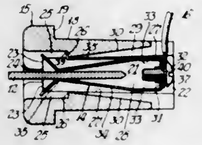
1. A tuner of the character described, having a core member in ring form, and a cooperating coil member of general arcuate shape enclosing a portion of said core member and disposed substantially concentrically with respect thereto, means mounting said coil and core members to afford relative angular movement of one with respect to the other, one arcuate portion of said core member having a coating of conductivity which is relatively high as compared to the body of the core.

2,666,188
PLANETARY MOVEMENT
Norman E. Klein, Garden City, N. Y.
Application August 25, 1944, Serial No. 551,236
4 Claims. (Cl. 339—5)



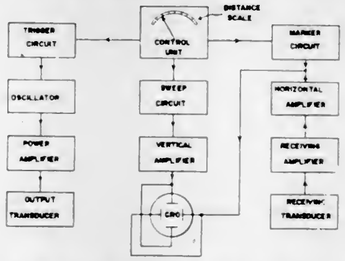
1. A planetary mechanism for translatory movement of an element along a circular path comprising a fixed mounting structure, a hollow case rotatably connected at one end to said mounting structure for rotation about a central axis, a drive means located externally of and operatively connected to said hollow case to rotate it relative to said fixed mounting structure, an element-supporting shaft journalled in the other end of said hollow case for rotation about an axis parallel to the central axis and spaced radially outwardly therefrom a distance equal to the radius of the desired translational path, a tortionally rigid elongated member located within said case, and a pair of connections securing the opposite ends of said member to said mounting structure and to said element-supporting shaft respectively and arranged to restrain said member against rotation relative to either said mounting structure or said element-supporting shaft, whereby said shaft and an element supported thereby are moved along a circular path around the central axis without being rotated relative to said mounting structure.

2,666,189
ELECTRIC TERMINAL BLOCK ASSEMBLY
Arnold G. Cook, Lombard, Ill., assignor to General Electric Company, a corporation of New York
Application July 30, 1951, Serial No. 239,345
5 Claims. (Cl. 339—213)



1. Electric terminal means comprising in combination, a housing having wall means defining an elongated cavity open at the front and at the rear, a contact clip adapted to be manually inserted into said cavity, said contact clip having elongated contact elements reaching forwardly within said cavity and terminating in a throat facing said front opening, a retainer having a resilient arm member adapted to extend along one of said contact elements in overlying relation therewith, one end of said arm member having a finger extending angularly therefrom, terminal screw means for removably securing the opposite end of said arm member to said contact clip, wall means within said cavity establishing a home position for said contact clip therein, means for placing the resilient arm member of said retainer under stress as the contact clip and thereto affixed retainer are inserted into said cavity, wall means defining a pocket adapted to receive said finger by reaction of said arm member as said finger passes said wall means substantially coincident with the attainment of home position by said contact clip, said finger and said wall means thereafter cooperating to hold the clip against withdrawal from said cavity, and means effective upon loosening of said terminal screw means to permit said retainer arm member to rotate relative to said contact clip to remove said finger from said pocket.

2,666,190
ECHO RANGING AND SOUNDING SYSTEM
David H. Ransom, Jr., San Diego, Calif.
Application September 29, 1944, Serial No. 556,451
3 Claims. (Cl. 340—3)



1. A pulse-echo locator system having a transmitter responsive to a keying pulse to emit a transmitted pulse, a receiver for receiving reflected pulses and an indicator for indicating the time interval between said transmitted pulse and said reflected pulse, a control unit for said system including a synchronizing means for generating a series of time measuring pulses, circuit means connecting said control unit and said transmitter for delivering a keying pulse to said transmitter at the mid-point of a time measuring interval, circuit means connecting said control unit to said indicator for delivering a marker pulse coincident with said keying pulse to said indicator, means connecting said receiver to said indicator for indicating the reception of a reflected pulse, and an adjustable linear control means including dial means connected to said control unit for controlling the time interval of the time measuring pulses, whereby the time interval between said keying pulses may be adjusted to be equal to the transit time of a reflected echo pulse and said interval indicated upon said dial means.

2,666,191
UNDERWATER SOUND DETECTING AND INDICATING SYSTEM
Harold P. Knauss, Belmont, Mass.
Application October 2, 1944, Serial No. 556,730
9 Claims. (Cl. 340—3)

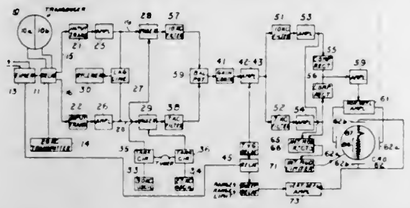


1. Apparatus for determining the range of a target in a field comprising an omnidirectional transducer for emitting a pulse of wave energy into said field, a directionally sensitive transducer for scanning said field to pick up an echo of said energy pulse as reflected by said target, said emitted energy pulse period being slightly longer than the period required for one complete scanning of said field by said scanning transducer, means visually simulating said field, marker means spirally sweeping said field simulating means synchronously with operation of said scanning transducer, and means for adjusting initiation of said energy pulse with respect to the position of said scanning transducer so that the latter will intercept an incoming echo of said energy pulse on two successive scannings of the field, and means for producing indications on said field simulating means by said marker means on adjacent spiral turns of the latter corresponding to each said interception of said echo pulse by said scanning transducer to thereby indicate the range of said target.

2,666,192
APPARATUS FOR DETERMINING THE DIRECTION OF UNDERWATER TARGETS
Frederick V. Hunt and Oscar Hugo Schuck, Belmont, and Charles R. Rutherford and Jarrett Lewis Hathaway, Cambridge, Mass., and Arthur Nelson Butz, Jr., Maplewood, N. J.
Application July 27, 1944, Serial No. 546,842
32 Claims. (Cl. 340—6)

1. Apparatus for determining the direction of a source of wave energy comprising a pair of transducers disposed closely adjacent each other and having their active faces coplanar, an output circuit for each transducer, phase shifting

means connected in each output circuit, means combining a phase shifted output in each of said output circuits with an unshifted output from each of the other of said output circuits to produce two resultant outputs, means to modulate each resultant output at a different frequency, means combining said resultant outputs into a common channel, and means for comparing the amplitudes of said resultant outputs.

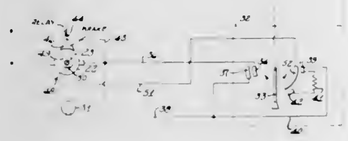


2,666,193

SELF-ALIGNING DUAL PURPOSE WARNING HEADLIGHT APPARATUS

Frank X. Keegan, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey

Application May 14, 1951, Serial No. 226,183
5 Claims. (Cl. 340—49)



1. A warning light comprising, a source of light, a motorized movable reflector means associated with said source of light to project a movable beam of light in a motion pattern, a first circuit means to concurrently energize said light source in said motorized reflector means, a second circuit means to solely energize only said source of light to produce a stationary beam of light, a selector switch to control the selective energization of said first and second circuit means, braking circuit means including a locking mechanism engaging said movable reflector means to align the beam of light at a predetermined point in the motion pattern, a brake switch in control of said braking circuit means, and an actuator for said brake switch carried by said movable reflector means to energize said braking circuit means in response to the sole energization of said second circuit means only.

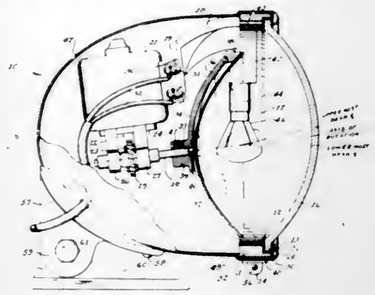
2,666,194

WARNING LIGHT FOR EMERGENCY VEHICLES

Arthur C. Heehler, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey

Application December 24, 1952, Serial No. 327,766
8 Claims. (Cl. 340—50)

3. In a warning light, an electric motor, a reflector, a pair of non-intersecting shafts making an angle of 90° with each other, one of said shafts comprising a drive shaft for said motor and having a worm thereon, the other of said shafts carrying said reflector and having a gear engaging said worm, said reflector being angularly offset relative to the rotational axis of the said other of said shafts to project the beam of light



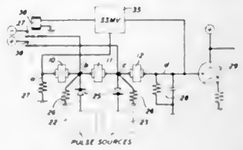
in a light pattern as a generatrix of a right conical surface upon rotation of said motor.

2,666,195

SEQUENTIAL CIRCUITS

Albert E. Bachelet and Hillel Pitlik, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 18, 1952, Serial No. 326,744
15 Claims. (Cl. 340—168)



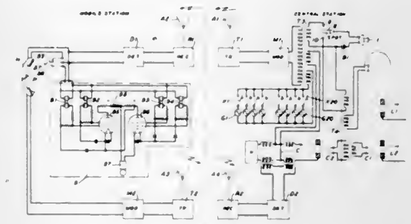
1. A circuit for recognizing a particular sequence of pulses of particular polarities comprising a plurality of ferroelectric crystals connected in series, the initial polarizations of said crystals being determined by the particular sequence of pulses to be recognized, means for applying said pulses sequentially each to one connection between two of said crystals, and means for receiving an output pulse from one of the end crystals in said series on completion of said sequence.

2,666,196

FREQUENCY STATION CALLING SYSTEM USING BIFURCATED PIEZOELECTRIC ELEMENTS

Thomas G. Kinsley, Plainfield, and Warren P. Mason, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 7, 1949, Serial No. 97,592
4 Claims. (Cl. 340—171)



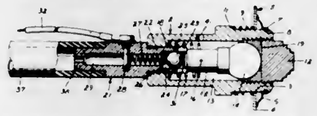
1. In a station calling system, a selector comprising a plurality of bifurcated piezoelectric elements adapted to respond to alternating electrical potentials of a distinctive frequency for each element, means for simultaneously energizing said elements in response to received signals of corresponding frequencies, the energization of each of said crystals providing an alternating current and potential of a frequency distinctive to said element, and call indicating means operable by the simultaneous alternating potentials from all of said piezoelectric elements.

2,666,197

VACUUM OPERATED SIGNAL DEVICE

Donald P. Polymeros, Minneapolis, Minn., assignor to Neil A. Champagne, Minneapolis, Minn.

Application September 2, 1949, Serial No. 113,752
2 Claims. (Cl. 340—236)



1. In a vacuum-operated switch of the class described, a metallic body having an enlarged axial bore therein open at one end and terminating at its inner end in a reduced bore, a translucent element forming a closure for the open end of said enlarged bore, a member of non-conductive material having a reduced end portion extending through the reduced bore in said body and into the adjacent end of the enlarged bore therein, said member having a passage extending longitudinally therethrough and terminating at the reduced end portion of said member in an enlarged chamber, a movable contact element in said chamber, an electric light bulb in the enlarged bore in said metallic body said electric light bulb having an electric filament therein and comprising a metallic base shell which is electrically connected to one end of the bulb filament, the other end of said filament being electrically connected to an electric contact disposed in insulated relation to said shell, and aligned with said metallic contact element, a spring element in said passage having one end engaging said contact element and having its opposite end seated against an abutment in said passage, said spring element constantly urging the movable contact element into electrical contact with the central contact of the light bulb, a yieldable element having one end seated in the bottom of said enlarged bore and having its opposite end electrically connected to the metallic shell of the light bulb, means for electrically connecting the abutment member and said metallic shell to a source of electric energy, and the opposite end of the passage in said insulated member being adapted for connection to one end of a suction tube, whereby the movable contact element in said chamber is actuated by variations in the vacuum in said passage, thereby to retain the movable contact element in circuit-opening position when the vacuum in said passage exceeds a predetermined figure.

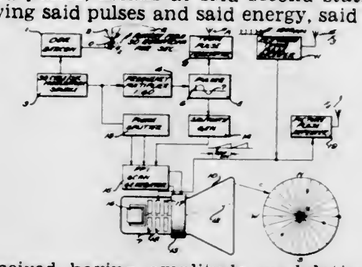
2,666,198

SYNCHROMETRIC RADAR SYSTEM

Marcel Wallace, East Portchester, Conn., assignor, by mesne assignments, of one-half to said Wallace, doing business as Panoramic Laboratories, East Portchester, Conn.

Application March 15, 1948, Serial No. 14,852
17 Claims. (Cl. 343—11)

1. In a navigational system, means for transmitting repetitive timing pulses from a first station to a second station, means for transmitting a rotative pattern of energy from said first station to said second station, means for establishing a predetermined time relation between the rotations of said pattern and the transmissions of said pulses, means at said second station for receiving said pulses and said energy, said energy



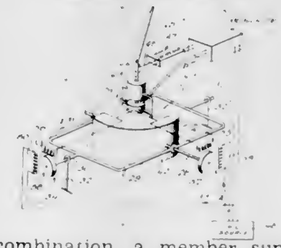
as received having amplitude modulation produced by the rotation of said pattern, means responsive to said modulation for selecting certain of said received pulses only, and means for transmitting from said second station pulses timed in response only to said certain of said pulses.

2,666,199

RADIO DIRECTION MAINTAINING SYSTEM

Robert F. Rothschild, Bronx, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application May 9, 1950, Serial No. 160,921
11 Claims. (Cl. 343—117)



1. In combination, a member supported for two degrees of freedom, means including a rotating element coupled to and movable with said member, said means producing a uniform or cyclically varying output voltage accordingly as the axis of rotation of said element is aligned in a predetermined direction or is inclined relative thereto, modulator means receiving an alternating input voltage of predetermined frequency and said output voltage and producing a version of said input voltage modulated according to said output voltage, and means responsive to the modulated version of said input voltage and another version thereof for controlling the space orientation of said member, said last-named means including resolving means driven synchronously with the rotation of said rotating element for modulating one of said voltage versions with phase alternations at each 180° rotation of said rotating element.

2,666,200

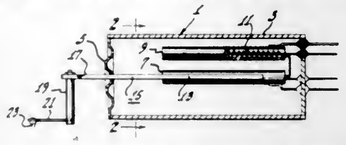
ELECTRONIC TRANSDUCER TUBE

Gardner L. Krieger, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application November 30, 1950, Serial No. 198,367
8 Claims. (Cl. 313—148)

1. An electron discharge device comprising an evacuated vessel having a flexible diaphragm as

part of its wall structure, a first electrode mounted in fixed position within said vessel and adapted to emit electrons, a second electrode mounted in fixed position, parallel to and spaced from said first electrode within said vessel and adapted to emit electrons, a third electrode secured to said diaphragm extending inwardly of said vessel generally in a direction parallel to and spaced from both said first and second electrodes, said first and second electrodes being disposed equal distances from said third electrode and substantially 90° from each other in relation to said third electrode as a center, said third electrode being movable toward and away from both said first and second electrodes, and means connected

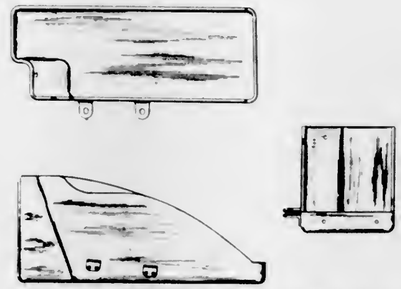


to said third electrode extending externally of said vessel for imparting movement to said third electrode.

DESIGNS

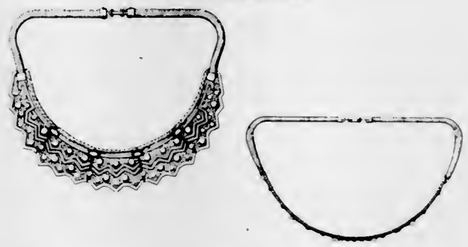
JANUARY 12, 1954

171,272
DESK TRAY
William James Bargen, Waukegan, Ill.
Application March 24, 1953, Serial No. 24,187
Term of patent 14 years
(Cl. D74—5(6))



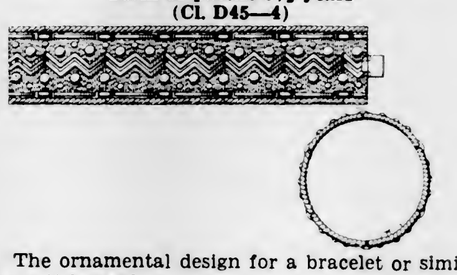
The ornamental design for a desk tray, as shown.

171,273
NECKLACE OR SIMILAR ARTICLE
Marcel Boucher, Eltingeville, N. Y.
Application July 1, 1953, Serial No. 25,744
Term of patent 3½ years
(Cl. D45—16)



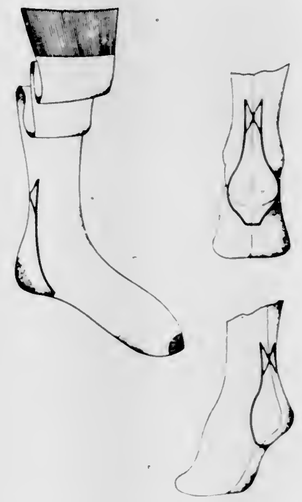
The ornamental design for a necklace or similar article, as shown.

171,274
BRACELET OR SIMILAR ARTICLE
Marcel Boucher, Eltingeville, N. Y.
Application July 1, 1953, Serial No. 25,745
Term of patent 3½ years
(Cl. D45—4)



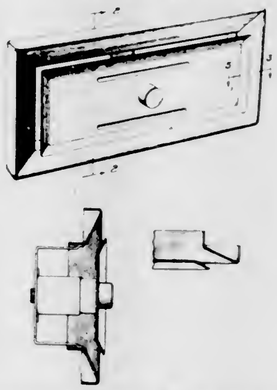
The ornamental design for a bracelet or similar article, as shown.

171,275
STOCKING
Sophia C. Dovas, Pennsauken, N. J.
Application July 31, 1953, Serial No. 26,215
Term of patent 14 years
(Cl. D47—7)



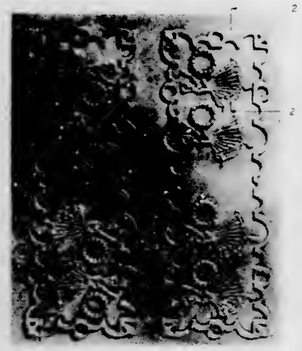
The ornamental design for a stocking, as shown.

171,276
AIR REGISTER
Nick J. Dovolis, Minneapolis, Minn., assignor to Char-Gale Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Application February 11, 1952, Serial No. 18,468
Term of patent 14 years
(Cl. D81—21)



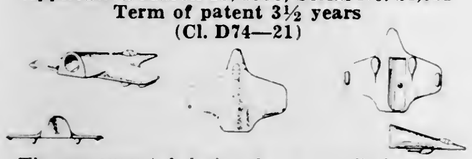
The ornamental design for an air register, as shown.

171,277
PLASTIC TABLE MAT OR SIMILAR ARTICLE
Norman Forrest, New York, N. Y.
Application February 17, 1953, Serial No. 23,658
Term of patent 3½ years
(Cl. D92—26)



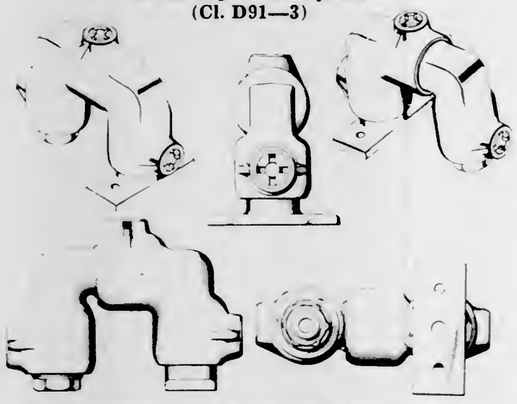
The ornamental design for a plastic table mat or similar article, substantially as shown.

171,278
PENCIL SHARPENER
Dillon Charles Furey, Melbourne, Victoria, Australia
Application March 13, 1953, Serial No. 24,021
Term of patent 3½ years
(Cl. D74—21)



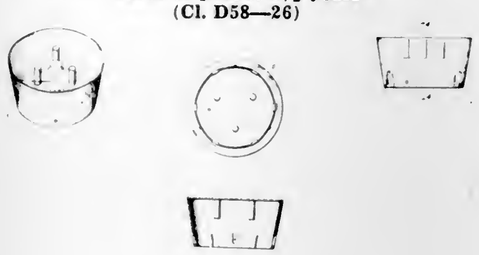
The ornamental design for a pencil sharpener, as shown.

171,279
SWIVEL JOINT
Donald Manning Jackson, Brea, Calif., assignor to Chiksan Company, Brea, Calif., a corporation of California
Application January 2, 1953, Serial No. 22,985
Term of patent 14 years
(Cl. D91—3)



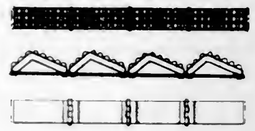
The ornamental design for a swivel joint, as shown.

171,280
COMBINED CAN AND CLOSURE CAP THEREFOR
Leonard E. Juengling, Kansas City, Kans., assignor to Cook Chemical Company, Kansas City, Mo.
Application May 5, 1952, Serial No. 19,591
Term of patent 3½ years
(Cl. D58—26)



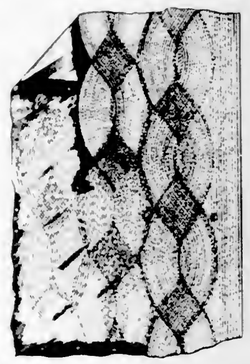
The ornamental design for a combined can and closure cap therefor, as shown and described.

171,281
LINK CHAIN FOR A BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 22, 1953, Serial No. 26,081
Term of patent 7 years
(Cl. D45—4)



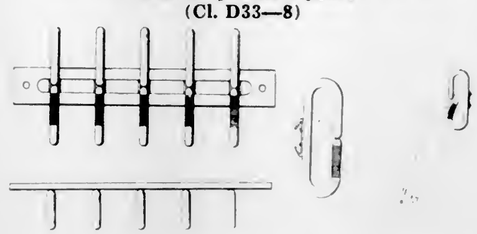
The ornamental design for a link chain for a bracelet or the like, substantially as shown.

171,282
CHENILLE FABRIC
Roy J. Kinsey, Dalton, Ga.
Application March 28, 1950, Serial No. 8,817
Term of patent 14 years
(Cl. D92—2)



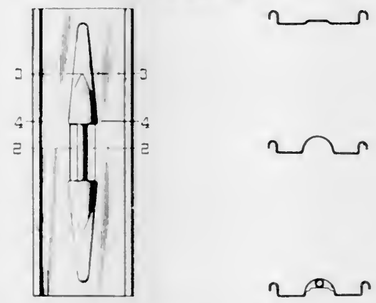
The ornamental design for a chenille fabric, as shown and described.

171,283
HANGER DEVICE
Maurice Kramer, New York, N. Y.
Application June 11, 1953, Serial No. 25,442
Term of patent 7 years
(Cl. D33—8)



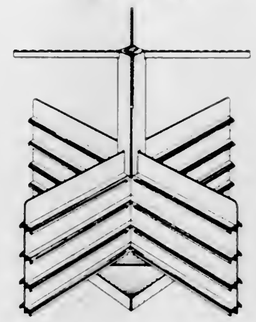
The ornamental design for a hanger device, as shown and described.

171,284
HOLDER FOR WAX APPLICATOR OR THE LIKE
Alfred L. Le Febvre, Windsor, Conn., and Douglas M. Small, Springfield, Mass., assignors to Stanley Home Products, Inc., Westfield, Mass., a corporation of Massachusetts
Application May 28, 1953, Serial No. 25,219
Term of patent 14 years
(Cl. D9—2)



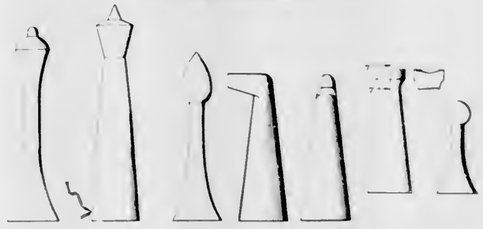
The ornamental design for a holder for wax applicator or the like, as shown.

171,285
ROTATABLE JEWELRY DISPLAY RACK
Stephen Hans Loeb, Brentwood, Mo., assignor to Hugo Herzberg Company, St. Louis, Mo., a corporation of Missouri
Application September 23, 1953, Serial No. 26,925
Term of patent 14 years
(Cl. D80—9)



The ornamental design for a rotatable jewelry display rack, substantially as shown.

171,286
SET OF CHESSMEN OR SIMILAR ARTICLE
Herman Ohme, Los Angeles, Calif.
Application March 16, 1953, Serial No. 24,034
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a set of chessmen or similar article, substantially as shown.

January 19, 1954 Volume 678 Number 3

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business December 31, 1953

Total number of patent applications awaiting action, 107,792. Date of oldest new application, February 10, 1953; date of oldest amended application, February 18, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	4-2-53	4-2-53	1431
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	3-24-53	3-27-53	1313
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Compositions (part).	4-22-53	4-20-53	2060
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	4-8-53	4-1-53	1591
5. ROBINSON, C. W., Harvesters; Harrows and Diggers (part); Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates.	4-7-53	4-10-53	1423
6. SURLE, H., Natural Resins; Proteins; Heterocyclic; Amides; Amines; General Organic Processes	3-2-53	3-2-53	2191
7. GONSALVES, J. E., Optics; Photography (part)	3-10-53	3-10-53	1916
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	4-21-53	4-21-53	1447
9. BRANSON, J. H., Pumps; Fans; Turbines	4-1-53	4-1-53	1261
10. Abolished as of November 16, 1953. See Commissioner's Administrative Order No. 45.			
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	4-15-53	4-13-53	1252
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches; Interrelated Clutch and Motor or Transmission Controls.	4-6-53	4-7-53	1868
13. BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Forging and Welding, Plastic Working, Drawing, Sawing, Milling, Planing, Turning.	3-18-53	3-18-53	1321
14. MANIAN, J. C., Metal Working (part)—e. g., Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes.	4-13-53	4-13-53	1529
15. BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass	4-6-53	4-6-53	1782
16. LOVEWELL, N. N., Television; Telephony; Recorders	3-2-53	3-2-53	1854
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	3-23-53	4-1-53	1518
18. KURZ, J. A., Power Plants; Speed Responsive Devices; Brakes	4-2-53	3-23-53	1401
19. PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners	3-6-53	3-4-53	1094
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking.	4-24-53	4-23-53	1227
21. MADER, R. C., Textiles	4-2-53	4-3-53	1283
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling.	4-20-53	4-16-53	1226
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	3-20-53	3-6-53	1093
24. DRACOPOULOS, P. T., (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	6-4-53	6-8-53	1095
25. NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus.	5-1-53	5-1-53	1439
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	4-3-53	4-7-53	2018
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	4-22-53	4-21-53	1283
28. BRAUNER, R. H., Steam and Internal Combustion Engines; Fluid Servo-Motors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes.	4-28-53	4-20-53	1449
29. HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers.	4-8-53	4-3-53	1362
30. BISHOFF, A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidostats; Illuminating Burners; Doors and Windows; Fluid Sprinkling, Spraying and Diffusing.	6-1-53	6-1-53	1545
31. HUTCHINSON, E. W., Mineral Oils; Urea Adducts; Silicon Containing Carbon Compounds; Hydrogenation of Carbon Oxides; Partial Oxidation of Non-Aromatic Carbon Mixtures.	3-17-53	3-12-53	1936
32. BERMAN, H., Gas and Liquid Carburetors; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.	4-27-53	4-27-53	1470
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	3-26-53	3-23-53	2043
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity. Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	3-13-53	3-10-53	1353
35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet; Kitchen and Table Articles	4-14-53	4-3-53	1504
36. McFADYEN, A. D., Measuring and Testing	4-9-53	4-8-53	1089
37. LEVY, M. L., Electricity—Switches, Welding, Heating	5-4-53	4-27-53	1876
38. MARMELSTEIN, N., Lignins; Azo; Carbohydrate; Carbocyclic or Acyclic Compounds (part), e. g., Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Hydroxy.	3-18-53	3-20-53	2121
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	5-1-53	5-1-53	1575
40. DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages	5-4-53	5-5-53	2215

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	4-13-53	4-10-53	1811
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Connectors.	4-2-53	4-3-53	1765
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	3-11-53	3-16-53	1999
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	4-20-53	4-16-53	1277
46. O'LEARY, R. A., Abolished as of January 4, 1954. See Commissioner's Administrative Order No. 46 (O. G.).	3-26-53	3-26-53	1183
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	4-6-53	4-6-53	1599
48. BERNSTEIN, S., Electricity; Electrical Conversion Systems, Measuring and Testing (part), Ignitors, Adjustable Induction Devices.	3-12-53	3-16-53	1916
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	4-13-53	4-9-53	1451
50. BENGEL, W. G., Synthetic Resins; Rubber	5-18-53	5-18-53	2121
51. YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Duplex or Multiplex Radio Communication; Piezoelectric Crystal Devices; Music.	4-7-53	4-3-53	1598
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	5-6-53	5-6-53	1891
53. REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Metal Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.	4-3-53	4-6-53	1687
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits, Ray Energy Applications.	3-30-53	4-8-53	1940
55. KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors.	3-2-53	3-9-53	1701
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	5-4-53	5-4-53	1442
57. MILLER, A. B., (DURHAM, B. G., Acting), Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	4-27-53	4-16-53	1779
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	4-1-53	4-2-53	1389
59. HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	4-1-53	4-1-53	1562
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	5-4-53	5-28-53	955
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	4-14-53	4-20-53	1916
63. WINKELSTEIN, A. H., Foods and Beverages; Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part).	3-23-53	3-20-53	2030
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	4-2-53	4-2-53	1826
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometric Instruments; Automatic Weighers; Weighing Scales; Acoustics	4-14-53	4-20-53	1156
67. KRAFFT, C. F., Laminated Fabric; Photographic Processes and Products; Ornamentation; Paper Making.	4-50-53	4-10-53	1719
68. Abolished as of November 2, 1953. See Commissioner's Administrative Order No. 44.			
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Electrical Conductors, Insulators and Conduits.	4-3-53	4-3-53	1672
70. BREWRINK, J. L., Guns and Torpedoes; Explosive Charge Making; Electrical Directional and Distance Instruments; Radio Antennae; Radar; Actinide Compounds; Explosive Compositions; Mass Spectrometers.	2-10-53	2-18-53	3749
DESIGNS: A—BREHM, G. L., Industrial Arts	7-6-53	7-9-53	1279
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	8-5-53	9-11-53	925

Number of new applications received week ending December 4, 1953

PATENTS 1,445 DESIGNS 112 REISSUES 5 TOTAL 1,562

Total number of trade-mark applications awaiting action (including renewals and republications), 12,560.
Date of oldest new application, August 1, 1953; date of oldest amended application, August 1, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	8-1-53	8-1-53	3041
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	8-1-53	8-1-53	3045
Renewals (All Classes)	10-16-53	11-25-53	488
Republications (All Classes)	10-26-53	12-1-53	213
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	8-3-53	8-3-53	2851
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	8-3-53	8-3-53	2922

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

THE ALUMINUM AIR SEAL MANUFACTURING CO.

v.

TRIM-SET CORPORATION

No. 5999. Decided November 24, 1953

[-- F.2d — ;— USPQ —]

1. TRADE-MARKS—CONFUSION OF THE PUBLIC—DESCRIPTIVE PORTIONS OF CONFLICTING MARKS CONSIDERED.

"Although it is well established that a descriptive word can have, in itself, little or no trade-mark significance and cannot properly be considered as being the dominant part of a trade-mark, it is equally well established that the controlling and decisive principle is whether the competing marks are confusing when observed in the light of their over-all presentations."

2. SAME—SAME—SIMILARITIES OF COMPONENT PARTS OF RESPECTIVE MARKS NOT TO BE OVERLOOKED.

Held that, while it is true that the "contested marks should not be judicially dissected or component parts measured one against the other," "existing and apparent similarities in significance, sound, and appearance between constituent parts of trade-marks cannot be overlooked as they provide a rational foundation upon which a conclusion may be formed as to the general subjective impression made by the marks upon the buying public."

3. SAME—SAME—"TRIM-A-SEAL" AND "TRIM-SET."

The decision of the Examiner-in-Chief, holding that the appellant's mark "Trim-A-Seal" and appellee's mark "Trim-Set" were of such near resemblance as to be likely to cause confusion in trade when applied to identical goods, is affirmed.

APPEAL from the Patent Office. Cancellation No. 5661.

AFFIRMED.

Harvey B. Jacobson (*John H. Lewis, Jr.* of counsel) for Aluminum Air Seal Mfg. Co.

Charles R. Allen and *Charles R. Allen, Jr.* (*Cook* and *Robinson* of counsel) for Trim-Set Corporation.

Before GARRETT, *Chief Judge*, and O'CONNELL, JOHNSON, WORLEY, and COLE, *Associate Judges*

COLE, *J.*, delivered the opinion of the court.

COLE, *J.*:

The appellant herein seeks a reversal of a decision of the Examiner-in-Chief of the United States Patent Office in a trade-mark cancellation proceeding in which it was held that the mark of the appellant, "Trim-a-Seal" and design, and that of the appellee-cancellation petitioner, "Trim-Set," were of such near resemblance as would lead, or likely lead, to confusion in trade as to the origin of the respective goods of the parties. 94 USPQ 35.

The appellant's mark, registered on the Supplemental Register of the Patent Office, consists of a pictorial representation of a cross section of "a structural member of generally I-beam shape, the words 'Trim-n-Seal' with 'Trim-' and 'Seal' disposed between the horizontal members of the I-beam and on either side, respectively of the vertical member of the I-beam and a slogan 'Makes The Weather Behave' disposed on the end face of the horizontal and vertical members • • •." The mark is affixed to combination storm windows, screens, and doors and has allegedly been in use since September of 1948.

Appellee's word mark, "Trim-Set," applied to metal windows, window frames, and doors was adopted and used prior to appellant's acquisition of its mark. Admittedly, the products of the parties are substantially identical, and it is not disputed that such products are distributed in the same geographical areas through similar channels of trade.

The appellee made application for the registration of its mark on the Principal Register of the Patent Office prior to appellant's application for registration of its mark. Registration of appellant's trade-mark on the Supplemental Register, however, antedated appellee's registration, but as the appellee does not affirmatively rely on its subsequent registration in its proceeding, it is unnecessary to further develop other factural matter.

Prior use having been established by the appellee, the sole issue for determination is whether or not the contested marks so resemble each other that their concurrent use on goods possessing the same descriptive properties will lead to the possibility of trade confusion or deception of purchasers.

In resolving this question in the affirmative, the Examiner-in-Chief reversed the decision of the Examiner of Interferences who was of the opinion that the marks, considered in their entireties, were not deceptively similar. In announcing this conclusion, the Examiner of Interferences was largely influenced by his interpretation of the holdings in several decisions of this court and the tribunals of the Patent Office. The Examiner-in-Chief, however,

Vol. 678 • No. 3 Tuesday, January 19, 1954 Price $30.00 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $30.00 per annum, foreign mailing $8.50 additional; single numbers, 75 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

The TRADE-MARK SUPPLEMENT to the OFFICIAL GAZETTE, issued weekly, subscription price, $19.00 per annum; single copies, 45 cents each. DECISION LEAFLETS, subscription price, $3.75 per year; single copies, 10 cents each.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

took the position and expressed the view, broadly restated, that the word notation "Trim-a-Seal" occupied a predominating place in the mark of the appellant, and that as the word "Trim" was common to the initial portion of each mark, it was necessary for the appellant to negate the possibility of confusion by providing a word or words for the remainder of its mark which would clearly differ from that used by the appellee. The Examiner-in-Chief was of the further opinion that the remainder of the notations, "Seal" and "Set," did not present a sufficient distinction in sound or appearance which would obviate the likelihood of confusion when the involved marks were considered in their respective entireties.

While the appellant's mark consists of the hyphenated words "Trim-a-Seal" in association with the previously described pictorial representation and a somewhat obscured slogan, "Makes The Weather Behave," the former was conceded to be the dominant part of the composite mark, and the express notation by which appellant's goods would most likely be requested. The hub of the controversy, therefore, is directed to a determination of the confusingly similar aspects of the notations "Trim-a-Seal" and "Trim-Set" on practically identical merchandise.

The appellant urges that the initial portion of each expression, "Trim," is descriptive of the products of both parties, and being descriptive cannot function as an origin indicating medium or the dominant part of either mark, or be given other than little weight in determining confusing similarity between marks involving other features. The appellant contends that "Trim" is a word used in the building trade denoting the finished trimming of window frames or the like, and that as appellee commonly sells its products in "sets," appellee's mark is wholly descriptive and consequently lacks trade-mark significance. The appellant further argues that such descriptive words cannot be exclusively appropriated and henceforth the marks, viewed as a whole, are not likely to mislead or confuse prospective purchasers.

The Examiner of Interferences, in his opinion, correctly stated:

> • • • Petitioner in this proceeding is not seeking to monopolize the words "Trim" and "Set," nor the expression "Trim-Set," but merely to cancel respondent's registration of the notation "Trim-A-Seal" because of prior use by it of a confusingly similar notation upon the same or similar goods and the likelihood of damage to petitioner by reason thereof. If petitioner proves these allegations it is entitled to prevail. • • •

This court in a cancellation proceeding will, of its own volition, notice descriptive portions of marks alleged to be confusingly similar. [1] Although it is well established that a descriptive word can have, in itself, little or no trade-mark significance and cannot properly be considered as being the dominant part of a trade-mark, it is equally well established that the controlling and decisive principle is whether the competing marks are confusing when observed in the light of their over-all presentations. [2] In this respect, it is true that in the final analysis the contested marks should not be judicially dissected or component parts measured one against the other, as the purchaser himself does not dissect the marks, but is confused, if at all, by the mark as a whole. From a purely objective standpoint, however, existing and apparent similarities in significance, sound, and appearance between constituent parts of trade-marks cannot be overlooked as they provide a rational foundation upon which a conclusion may be formed as to the general subjective impression made by the marks upon the buying public.

Whether "Trim-Set" and "Trim-a-Seal" be comprised of mere descriptive designations or otherwise, we cannot close our eyes to the fact that the word "Trim" is common to each mark, and whether dominant or not, its very presence in the initial portion of each mark is of significant concern. Assuming that "Trim" is descriptive of the goods, and therefore entitled to a lesser degree of weight than if it were wholly arbitrary, the remainder of the marks, "Set" and "Seal," do not adequately differentiate in themselves, either in sound or appearance, and to the extent to which they might be considered dissimilar upon close comparison, the contrast is obscured when the marks are considered in their entirety.

Although somewhat repetitious, the following is quoted with approval from the clear and concise opinion of the Examiner-in-Chief:

> It is true that marks must be considered in their entireties but pictorial representations cannot be spoken and the goods would be called for by means of the name and not by the picture. The slogan "Makes The Weather Behave" is so inconspicuous in the mark that it is clearly subordinate to the words "Trim-a-Seal." Both petitioner's mark and respondent's mark have "Trim" as the first word which would be spoken in calling for the goods and as the first part of the mark "Trim" obviously forms a conspicuous part thereof and whether arbitrary, suggestive or descriptive cannot be ignored. Being a newcomer in the field and having adopted the identical first term of another as the first term of his mark respondent clearly has the duty of selecting such word or words for the remainder of his mark that there can be no possibility of confusion. This respondent has failed to do since the words "Seal" and "Set" look somewhat alike and sound somewhat alike when spoken in connection with the word "Trim." It is true that respondent has a vowel "a" inserted between "Trim" and "Seal" but this is capable of being slurred to the point of extinction. The courts have repeatedly held that the public ought not be required to dissect and analyze trade-marks in order that confusion and deception might be avoided. • • •

[3] For the reasons hereinbefore stated, the decision of the Examiner-in-Chief is affirmed.

AFFIRMED.

JOHNSON, J., dissents.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,099,973, L. M. de Corlieu, Life-saving and swimming propelling device; Re. 23,006 (of 2,321,009), O. P. Churchill, Swim-fin, D. C., S. D. Calif. (Los Angeles), Doc. 7978–PH, *O. P. Churchill et al.* v. *A. H. Brown et al.* Consent judgment holding patents valid; injunction to issue (notice Oct. 22, 1953). Doc. 15037–C, *O. P. Churchill et al.* v. *R. M. Kline et al.* Decree as above.

2,164,296, R. C. Wilcox, Fish lines and method of making; 2,614,451, D. Lippey, Fishing line, filed Oct. 22, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15968–WM, *Western Lace & Line Co.* v. *Union Hardware Co., Inc., et al.*

2,167,607, H. W. Alden, Brake mechanism, filed Oct. 19, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c2071, *Rockwell Spring & Axle Co.* v. *Gatke Corp.*

2,168,490, M. Moss, Ring, filed Oct. 22, 1953, D. C., S. D. N. Y., Doc. 88/375, *M. Moss* v. *J. R. Wood & Sons, Inc.*

2,244,474, A. A. Rainville, Article of furniture; 2,625,204, S. G. Reichman, Combination ottoman and chair, filed Oct. 20, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c2090, *S. G. Richman* v. *Royal Mfg. Co., Inc.*

2,321,009. (See 2,099,973.) 2,372,912. (See 2,380,794.)

2,380,794, D. J. Rust, Tensioning and locking device for frameless window screens; 2,372,912, same, Frameless window screen, filed June 28, 1953, D. C., N. D. Calif. (San Francisco), Doc. 6514, *Ry-Lock Co., Ltd.* v. *Sears, Roebuck & Co.* Patent 2,380,794 held invalid, Patent 2,372,912 dismissed with prejudice Oct. 22, 1953.

2,407,096, J. J. Pfiffner et al., Antianemic vitamin product, C. C. A., 6th Cir. (Detroit), Doc. 11719, *Parke, Davis & Co.* v. *American Cyanamid Co. et al.* Judgment of District Court affirmed Oct. 30, 1953.

2,420,322. (See 2,620,277.)

2,461,975, E. D. Fuller, Method of making flattened thermoplastic tubing of predetermined desired characteristics, filed Oct. 20, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c2082, *The Viking Corp* v. *Durethene Corp.*

2,488,151, D. E. Webster, Method of making abrasive teeth, filed Oct. 21, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15963–BH, *Norton Co.* v. *Felker Mfg. Co. et al.*

2,497,735, D. S. McCullough, Metalworking machine, D. C. Kans. (Wichita), Doc. W–190, *D. S. McCullough* v. *C. H. Hill et al.* Claims 1, 2, 5, and 6 held invalid Oct. 22, 1953.

2,528,293, G. W. Ashlock, Jr., Feeding of cherries having stems attached, filed Oct. 22, 1953, D. C. Oreg. (Portland), Doc. 7232, *George W. Ashlock Co.* v. *Hudson House, Inc.*

2,533,850, T. P. Syracuse, Utility handbag, filed Oct. 29, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15994–T, *New Wonder Bag Corp* v. *H. Parix.*

2,551,007, F. Jones, Masthead, filed Oct. 22, 1953, D. C. Kans. (Wichita), Doc. W–679. *F. Jones* v. *Cardwell Mfg. Co., Inc.*

2,577,975, H. T. Moore, Wood planer, filed Oct. 7, 1953, D. C. N. H. (Concord), Doc. 1277, *M. & M. Power Tool Mfg. Co., Inc.* v. *H. T. Moore Machine Co., Inc.*

2,585,306, J. Galkin, Belt loop sewing machine; 2,585,307, same, Attachment for blindstitch sewing machines; 2,646,759, same, Folder for blindstitch sewing machines, filed Oct. 29, 1953, D. C., S. D. N. Y., Doc. 89/41, *Joseph Galkin Corp.* v. *American Blind Stitch Machine Co. et al.*

2,585,307. (See 2,585,306.)

2,590,035, A. Poliak, Tilting-arbor saw and cradle suspension therefor, D. C., S. D. N. Y., Doc. 78/271, *American Machine & Tool Co., Inc.* v. *L. Baumann.* Stipulation and order of dismissal with prejudice Oct. 26, 1953.

2,594,131, L. A. Daines, Creased sheet metal panel and forming and applying such panels to frame structures, filed Oct. 2, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15912–WM, *L. A. Danies* v. *R. S. Engineering & Mfg. Co., Inc.*

2,597,154, M. Maccaferri, Stringed musical instrument; 2,614,448, same, Bridge for stringed musical instrument; 2,649,827, same, Sounding board for stringed musical ininstrument; 2,649,828, same, Fretted finger board for stringed musical instrument, filed July 22, 1953, D. C., S. D. N. Y., Doc. 77/238, *French American Reeds Mfg. Co., Inc.* v. *Emmence Industries.*

2,599,259, J. P. Hooks, License plate holder, D. C. N. D., Ill. (Chicago), Doc. 52c2714, *J. P. Hooks et al.* v. *Ford Motor Co.* On motion cause dismissed with prejudice Oct. 29, 1953.

2,614,448. (See 2,597,154.) 2,614,451. (See 2,164,296.)

2,620,277, C. Scalera, Preserving peeled white potatoes; 2,420,322, R. F. Matarazzo, same, filed Oct. 21, 1953, D. C. R. I. (Providence), Doc. 1622, *A. Longo et al.* v. *Pak-Rite Package Co.*

2,625,204. (See 2,244,474.)

2,629,100, H. W. Froehlich, Radiant stitched brassière cup, D. C., S. D. N. Y., Doc. 84/185, *Charmfit of Hollywood, Inc.* v. *Wonder-Bra Co.* Patent held valid, complaint and counterclaim dismissed with prejudice Oct. 27, 1953.

2,629,191, Koch & Strom, Gravity return bump gate, filed Oct. 21, 1953, D. C. Minn. (St. Paul), Doc. 4700, *W. H. Koch* v. *P. & H. Mfg. Co.*

2,633,368, W. Ross, Stabilizer device for vehicles, D. C., N. D. Ohio (Cleveland), Doc. 30353, *Lyro Skid-Control Co., Inc.* v. *The Kimball Co.* Order dismissing complaint and counterclaim with prejudice Oct. 27, 1953.

2,643,407, P. S. Vosbikian et al., Mop and extractor thereof, filed Oct. 19, 1953, D. C., E. D. Wis. (Milwaukee), Doc. 6095, *Hancock Corp.* v. *Ed Schuster & Co., Inc.*

2,646,759. (See 2,585,306.) 2,649,827. (See 2,597,154.)

2,649,828. (See 2,597,154.)

Re. 23,006. (See 2,099,973.)

Des. 54,296, E. F. Wood, Emblem button, filed Oct. 23, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13913, *The American Legion* v. *Cleary Uniform Co., Inc.*

Des. 161,886, M. O. Welsbrod, Optometric mirror, filed Oct. 19, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c2070, *M. O. Weisbrod* v. *New Era Optical Co.*

Des. 164,278, R. A. Billups et al., Building, filed Oct. 21, 1953, D. C., N. D. Ga. (Atlanta), Doc. 4715, *Billups Petroleum Co.* v. *Whitaker Oil Co. et al.*

Des. 168,426, N. S. Siegel, Combined container and children's apparel display, filed Oct. 28, 1953, D. C. Minn. (Detroit), Doc. 4707, *Bloom-Ease, Inc.* v. *North Star Shoe Corp.*

Des. 170,128, F. C. Levy, Combination lamp and planter, filed Oct. 23, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15974–BH, *F. C. Levy* v. *C. Strongwater et al.*

NOTICES

Adjudicated Patents

(C. A. Ohio) Bechtner and Hirschmann Patent No. 2,036,617, for clays and processes for preparing same, *Held* invalid. *American Colloid Co.* v. *Eastern Clay Products, Inc.*, 207 F.2d 655; — USPQ —.

(C. A. Ohio) Bechtner and Hirschmann Patent No. 2,186,661, for clay and method of mixing it with water, *Held* invalid. *Id.*

Disclaimer

2,540,412.—*Robert Adler*, Northfield, Ill. PIEZOELECTRIC TRANSDUCER AND METHOD FOR PRODUCING SAME. Patent dated Feb. 6, 1951. Disclaimer filed Dec. 21, 1953, by the inventor, and the assignee, *Zenith Radio Corporation*.

Hereby enters this disclaimer to claims 18, 19, 20, 21, 22, 23, 24, 27, and 28 of said patent.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Acrozone Laboratories: *See*—
Sullivan, Margerite V.

Aero Design & Engineering Co., Bethany, Okla. Airplanes. Serial No. 619,053, Jan. 19. Class 19.

Agency Publishing Co., New York, N. Y. Periodical publication. Serial No. 650,568, Jan. 19. Class 38.

Allen, William D., New York, N. Y. Periodical publication and news clip sheet. Serial No. 648,828, Jan. 19. Class 38.

American Beverage Corporation, Brooklyn, N. Y. Flavoring extracts. Serial No. 649,624, Jan. 19. Class 45.

American Cyanamid Company, New York, N. Y. Antibiotic. Serial No. 645,370, Jan. 19. Class 18.

America Enka Corporation, Enka, N. C. Rayon yarns. Serial No. 650,295, Jan. 19. Class 43.

American Independent Reinsurance Company, Orlando, Fla. Underwriting the general types of insurance and reinsurance. Serial No. 638,285, Jan. 19. Class 102.

Amexa Corporation, Brooklyn, N. Y. Automobile parts. Serial No. 639,546, Jan. 19. Class 23.

Ansul Chemical Company, Marinette, Wis. Desiccant for refrigerants. Serial No. 644,488, Jan. 19. Class 6.

Apollo Aluminum Awnings, Inc., Lancaster, Pa. Aluminum awnings. Serial No. 643,267, Jan. 19. Class 12.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Face cream. Serial No. 643,813, Jan. 19. Class 51.

Armour and Company, doing business under the trade style Drummond Packing Co., Chicago, Ill. Ham, bacon, picnics, etc. Serial No. 642,601, Jan. 19. Class 46.

Armour and Company, doing business under the trade style Armour Fertilizer Works, Chicago, Ill. Fertilizers. Serial No. 642,602, Jan. 19. Class 10.

Armour and Company, Chicago, Ill. Sulfa preparations. Serial No. 645,620, Jan. 19. Class 18.

Armour Fertilizer Works: *See*—
Armour and Company.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Alkali and acid proof cement. Serial No. 636,623, Jan. 19. Class 12.

Audiosphere, Inc., Newark, N. J. Grooved phonograph records. Serial No. 645,377, Jan. 19. Class 36.

Aurel Jewelry Mfg. Co., New York, N. Y. Wrist watch bands and bracelets. Serial No. 648,833, Jan. 19. Class 28.

Avon Sole Company, Avon, Mass. Shoe soles. Serial No. 639,404, Jan. 19. Class 39.

Avonshire Knitting Mills, Inc., Philadelphia, Pa. Women's sweaters. Serial No. 641,896, Jan. 19. Class 39.

B. & B. Shoe Company, Chicago, Ill. Shoes and slippers. Serial No. 609,354, Jan 19. Class 39.

Baldwin Company, The, Cincinnati, Ohio. Electric musical instruments. Serial No. 645,625, Jan. 19. Class 36.

Banner Fireworks Mfg. Co., Inc., Toledo, Ohio. Pyrotechnics and pyrotechnical display materials—namely, sparklers, aerial noise and flash bombs, etc. Serial No. 606,595, Jan. 19. Class 9.

Baxter Laboratories, Inc., Morton Grove, Ill. Fluids for parenteral use, etc. Serial No. 647,585, Jan. 19. Class 18.

Beckerman, M., & Sons, Inc., New York, N. Y. Women's, infants', children's, and boys' shoes. Serial No. 649,562, Jan. 19. Class 39.

Bereda Manufacturing Company, Chicago, Ill. Mirror backing. Serial No. 637,639, Jan. 19. Class 6.

Berelson, D. B., & Co., San Francisco, Calif. Canned pineapple. Serial No. 614,423, Jan. 19. Class 46.

Beta Sigma Phi: *See*—
Ross, Walter W., and Company, Inc.

Beta Sigma Phi International: *See*—
Ross, Walter W., and Company, Inc.

Betco Corporation, The, Toledo, Ohio. Bowl cleanser. Serial No. 645,691, Jan. 19. Class 52.

Better Packages, Incorporated, Shelton, Conn. Nonmechanical envelope, label and gummed tape moisteners. Serial No. 635,677, Jan. 19. Class 37.

Bird Machine Company, South Walpole, Mass. Doctors for calendars, driers, press rolls and the like. Serial No. 649,754, Jan. 19. Class 23.

Bloch Brothers Tobacco Co., The, Wheeling, W. Va. Smoking tobacco. Serial No. 649,921, Jan. 19. Class 17.

Blue Ridge Glass Corporation, Kingsport, Tenn. Glass. Serial No. 649,279, Jan. 19. Class 33.

Boehringer, C. H., Sohn, Ingelheim am Rhein, Germany. Medicinal preparations. Serial No. 643,069, Jan. 19. Class 18.

Boehringer, C. H., Sohn, Ingelheim am Rhein, Germany. Medicinal preparation. Serial No. 643,070, Jan. 19. Class 18.

Bonafide Mills, Inc., Winthrop, Maine, and New York, N. Y. Felt base, linoleum, composition, and plastic floor coverings and rugs. Serial No. 640,432, Jan. 19. Class 20.

Bonnekamp, Arbuckle and Burge Steel Corp., Skokie, Ill. Steel. Serial No. 644,961, Jan. 19. Class 14.

Boon-Zee, Inc., New York, N. Y. Toys. Serial No. 655,232, Jan. 19. Class 22.

Borax Consolidated, Limited, doing business as Pacific Coast Borax Co., Division of Borax Consolidated, Limited, London, England, and Los Angeles, Calif. Boric acid spangles. Serial No. 649,116, Jan. 19. Class 4.

Borcherdt Malt Extract Company, Chicago, Ill. Liquid multivitamin-iron supplement and for dietary supplement. Serial No. 642,458, Jan. 19. Class 18.

Borden Company, The, New York, N. Y. Pig feed supplement. Serial No. 647,258, Jan. 19. Class 18.

Borgfeldt, Geo., Corporation, New York, N. Y. Glassware. Serial No. 647,390, Jan. 19. Class 33.

Bottomley, Edward P., Burlington, Vt. Foot stools. Serial No. 650,574, Jan. 19. Class 32.

Bozeman Canning Company, Inc., Bozeman, Mont. Canned peas. Serial No. 632,599, Jan. 19. Class 46.

Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y. Services rendered manufacturers. Serial No. 649,281, Jan. 19. Class 106.

Brender's Leghorns, Ferndale, N. Y. Live baby chicks, live chickens, and eggs for hatching. Serial No. 652,150, Jan. 19. Class 1.

Brody, Benjamin H., Brooklyn, N. Y. Anti-coagulant preparation. Serial No. 643,942, Jan. 19. Class 18.

Buchman, L., Co., Inc., The, New York and Brooklyn, N. Y. Combined down and feather pillows. Serial Nos. 650,420–1, Jan. 19. Class 32.

Bucknell, Jay, Inc., New York, N. Y. Men's and boys' sport shirts, sport jackets and slacks. Serial No. 643,815, Jan. 19. Class 39.

Bulluck Hosiery, Inc., New York, N. Y. Children's anklets, misses' anklets, boys' hosiery and men's hosiery. Serial No. 638,895, Jan. 19. Class 39.

Bunny Bear, Inc., Everett, Mass. Infant's chair. Serial No. 648,648, Jan. 19. Class 32.

Burch Corporation, The, Crestline, Ohio. Snow plows. Serial No. 642,389, Jan. 19. Class 23.

Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Medicinal preparation. Serial No. 650,576, Jan. 19. Class 18.

California Institute of Social Welfare, Los Angeles, Calif. Monthly publication. Serial No. 650,775, Jan. 19. Class 38.

California Lima Bean Growers Association, Oxnard, Calif. Canned lima beans and dried lima beans. Serial No. 653,106, Jan. 19. Class 46.

Calumet and Hecla, Inc., Calumet, Mich., and elsewhere in the United States. Copper castings and copper billets. Serial No. 643,287, Jan. 19. Class 14.

Canfield, A. J., Co., Chicago, Ill. Carbonated non-alcoholic, non-cereal, maltless beverages. Serial No. 648,838, Jan. 19. Class 45.

Cangemi, Salvatore, Brooklyn, N. Y. Women's and misses' shoes. Serial Nos. 638,241–2, Jan. 19. Class 39.

Capehart-Farnsworth Corporation, Wilmington, Del., and Fort Wayne, Ind. Domestic television receiving sets. Serial Nos. 642,064–5, Jan. 19. Class 21.

Capitol Industries, Inc., Chicago, Ill. Carrier type radio transmitters and receivers. Serial No. 628,088, Jan. 19. Class 21.

Caram Manufacturing Company, Monrovia, Calif. Adhesives and cements. Serial No. 645,540, Jan. 19. Class 5.

Carolina Underwear Co. Inc., Thomasville, N. C. Play shorts. Serial No. 648,154, Jan. 19. Class 39.

Carter Carburetor Corporation, St. Louis, Mo. Carburetors, fuel pumps, and parts thereof. Serial No. 586,954, Jan. 19. Class 23.

Celanese Corporation of America, New York, N. Y. Textile fabrics. Serial No. 649,984, Jan. 19. Class 42.

Central States Distributors, Inc., assignor to Central States Maintenance, Inc., Oak Park, Ill. Wall and ceiling cleaning apparatus. Serial No. 646,989, Jan. 19. Class 23.

Central States Maintenance, Inc., assignee: *See*—
Central States Distributors, Inc.

Century Lighting, Inc., New York, N. Y. Electric lighting switching apparatus. Serial No. 638,635, Jan. 19. Class 21.

Certified Creations Company: *See*—
Certified Fabrics Co.

Certified Fabrics Co., New York, N. Y., now by change of name Certified Creations Company. Scuffies and slippers. Serial No. 625,657, Jan. 19. Class 39.

Chem-Plex Company, Inc., The, Jersey City, N. J. Chemicals in liquid or powdered form. Serial No. 644,597, Jan. 19. Class 6.

Chester Plastic Products Corp., assignor to Supreme Wire & Cable Inc., Chester, N. Y. Garden hose. Serial No. 651,694, Jan. 19. Class 35.

Chicago Daily Tribune, The: *See*—
Tribune Company.

Chicago Sunday Tribune: *See*—
Tribune Company.

Ciba Limited, Basel, Switzerland. Male sexual hormone. Serial No. 650,690, Jan. 19. Class 18.
Cisco California, Inc., Los Angeles, Calif. Men's and boys' swimming trunks. Serial No. 637,362, Jan. 19. Class 39.
Clarke, John, & Co., Inc., New York, N. Y. Fungicide. Serial No. 649,213, Jan. 19. Class 6.
Clearkin, Alphonsus J., doing business as Clearkin Chemical Company, Philadelphia, Pa. Corrosion preventives. Serial No. 642,343, Jan. 19. Class 6.
Clearkin Chemical Company: *See* Clearkin, Alphonsus J.
Clemente Jacques y Cia, S. A., Mexico City, Mexico. Piquant chili sauces, canned chilis. Serial No. 638,192, Jan. 19. Class 46.
Cluett, Peabody & Co. Inc., Troy, N. Y. Pajamas. Serial No. 646,736, Jan. 19. Class 39.
Cohen, Lawrence M., Greensboro, N. C. Clocks and watches. Serial No. 648,235, Jan. 19. Class 27.
Commercial Solvents Corporation, New York, N. Y. Animal feed supplements. Serial No. 642,731, Jan. 19. Class 18.
Commercial Solvents Corporation, New York, N. Y. Compositions comprising the antibiotics neomycin and bacitracin. Serial No. 643,466, Jan. 19. Class 18.
Complete Machinery & Equipment Company, Inc., Long Island City, N. Y. Well point systems. Serial No. 624,394, Jan. 19. Class 23.
Coty, Inc., assignee: *See* Lelong, Lucien, Inc.
Cranmore, Mary K., doing business as Mealmaster Recipe File and Menu Service, Chicago, Ill. Printed recipe cards. Serial No. 646,112, Jan. 19. Class 38.
Crawford Manufacturing Co., Inc., Richmond, Va. Automobile seat covers. Serial No. 654,650, Jan. 19. Class 19.
Crown Chemical Corporation, Providence, R. I. Chemical preparation. Serial No. 647,686, Jan. 19. Class 6.
D'Arrigo Bros. Co. of California, San Jose, Calif. Fresh vegetables. Serial No. 653,356, Jan. 19. Class 46.
Dean, B. H., Company, Inc., Kansas City, Mo. Finger rings and parts thereof. Serial No. 649,930, Jan. 19. Class 28.
Dearling Associates: *See* Dearling, Harry S.
Dearling, Harry S., doing business as Dearling Associates, New York, N. Y. Toy. Serial No. 635,256, Jan. 19. Class 22.
Deere & Company, Moline, Ill. Chemical fertilizer. Serial No. 649,132, Jan. 19. Class 10.
Delightform Foundations, Inc., Easton, Pa. Brassières. Serial No. 636,004, Jan. 19. Class 39.
Dempster Mill Manufacturing Company, Beatrice, Nebr. Deep well pumps. Serial No. 641,717, Jan. 19. Class 23.
Diamond Saw Works, Inc., Buffalo, N. Y. Metal cutting saw blades. Serial No. 645,469, Jan. 19. Class 23.
Dodge & Olcott, Inc., New York, N. Y. Flavoring agent. Serial No. 649,351, Jan. 19. Class 6.
Dodson-Fisher Company, St. Paul, Minn. Men's, women's and children's shoes. Serial No. 638,353, Jan. 19. Class 39.
Drews, Millesan, Laguna Beach, Calif. Figurines. Serial No. 650,432, Jan. 19. Class 50.
Drummond Packing Co.: *See* Armour and Company.
Edison, Thomas A., Incorporated, West Orange, N. J. Record blanks. Serial No. 639,878, Jan. 19. Class 21.
Eichberg & Co., Inc., New York, N. Y. Precious stones. Serial No. 636,224, Jan. 19. Class 28.
Electrical Fittings Corporation, Woodside, N. Y. Electrical wiring supplies and accessories therefor. Serial No. 639,924, Jan. 19. Class 21.
Emsco Derrick & Equipment Company, Los Angeles, Calif., now by change of name, Emsco Manufacturing Company, Antenna and radiator towers. Serial No. 621,662, Jan. 19. Class 21.
Emsco Manufacturing Company: *See* Emsco Derrick & Equipment Company.
Enterprise Aluminum Company, The, Massillon, Ohio. Whistling tea kettles. Serial No. 640,926, Jan. 19. Class 13.
Essick Manufacturing Company, Los Angeles, Calif. Mixers. Serial No. 618,959, Jan. 19. Class 23.
Fabrique Nationale d'Armes de Guerre, Societe Anonyme, Herstal, Belgium. Shot guns, rifles, pistols, etc. Serial No. 638,479, Jan. 19. Class 9.
Fansteel Metallurgical Corporation, North Chicago, Ill. Electrical contacts. Serial No. 640,559, Jan. 19. Class 21.
Fansteel Metallurgical Corporation, North Chicago, Ill. Electrical contacts. Serial No. 640,561, Jan. 19. Class 21.
Farmers Tool and Equipment Company, Emeryville, Calif. Single disc harrows, double disc harrows, etc. Serial No. 623,829, Jan. 19. Class 23.
Federal Chemical Company, Louisville, Ky. Commercial chemical fertilizers. Serial No. 646,750, Jan. 19. Class 10.
Federated Department Stores, Inc., doing business under the name and style of Wm. Filene's Sons Company, Cincinnati, Ohio, and Boston, Mass. Women's handbags. Serial No. 651,096, Jan. 19. Class 3.
Ferro Corporation, Cleveland, Ohio. Friable glasslike substances for use as a fertilizer. Serial No. 645,297, Jan. 19. Class 10.
Filene's, Wm., Sons Company: *See* Federated Department Stores, Inc.
Filtrine Manufacturing Company, Brooklyn, N. Y. Water cooler. Serial No. 631,659, Jan. 19. Class 31.
Fink, Lawrence J., Inc., New York, N. Y. Acetate fabrics. Serial No. 649,875, Jan. 19. Class 42.
Finnell System, Incorporated, Elkhart, Ind. Floor coating. Serial No. 632,470, Jan. 19. Class 16.
Foote & Davies, Inc., Atlanta, Ga. Ink. Serial No. 651,045, Jan. 19. Class 11.
Foote Mineral Company, Philadelphia, Pa. Synthetic chemical preparation. Serial No. 633,357, Jan. 19. Class 6.
Forever Young: *See* Puritan Skirt & Dress Company.
Fort Wayne Corrugated Paper Company, Fort Wayne, Ind. Corrugated paper cartons or cases. Serial No. 627,060, Jan. 19. Class 2.
Fougera, E., & Co., Inc., New York, N. Y. Preparation used as an oral hematinic. Serial No. 651,397, Jan. 19. Class 18.
Freeman Shoe Corporation, Beloit, Wis. Men's shoes. Serial No. 633,576, Jan. 19. Class 39.
Freydberg, G., H. & E., Inc., New York, N. Y. Doll's dresses. Serial No. 650,701, Jan. 19. Class 22.
Froelich-Reeder-Froelich, Inc., Downey, Calif. Mounting stand or bracket. Serial No. 643,416, Jan. 19. Class 13.
Fuller, D. B., & Co. Inc., New York, N. Y. Textile fabrics. Serial No. 650,045, Jan. 19. Class 42.
Gardiner Shoe Company, Inc., Gardiner, Maine. Men's shoes. Serial No. 649,298, Jan. 19. Class 39.
Geigy Company, Inc., New York, N. Y. Insecticides. Serial No. 649,420, Jan. 19. Class 6.
George, Robert K., doing business as Precision Attachments Company, Indianapolis, Ind. Dental laboratory services. Serial No. 638,141, Jan. 19. Class 106.
Gides, Incorporated, Beverly Hills, Calif. Dietary food supplement. Serial No. 638,763, Jan. 19. Class 18.
Givaudan, L. & Cie S. A., Vernier, Geneva, Switzerland. Products prepared from terpenes of clove essence. Serial No. 622,890, Jan. 19. Class 6.
Glenn & Thomas Company, New York, N. Y. Shower curtains. Serial No. 638,483, Jan. 19. Class 42.
Glidden Company, The, Cleveland, Ohio. Varnish. Serial No. 650,171, Jan. 19. Class 16.
Gosse, F. A., Company, Seattle, Wash. Canned salmon, canned crabmeat and canned applesauce. Serial No. 633,725, Jan. 19. Class 46.
Gotham Knitting Mills, Inc., New York, N. Y. Knitted sweaters, dresses, skirts, etc. Serial No. 647,183, Jan. 19. Class 39.
Goulder Company, The, New York, N. Y. Polo shirts, coats, and sweaters. Serial No. 649,147, Jan. 19. Class 39.
Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Cigarette lighters and cigarette cases. Serial No. 640,205, Jan. 19. Class 8.
Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Cigarette lighters and cigarette cases. Serial No. 640,207, Jan. 19. Class 8.
Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Desk sets, pencils, transparent protecting envelopes. Serial No. 643,219, Jan. 19. Class 37.
Grand Lodge of Theta Delta Chi, New York, N. Y. Establishment and maintenance of membership in a national collegiate fraternity. Serial No. 599,167, Jan. 19. Class 100.
Great Books Foundation, The, Chicago, Ill. Books and reprints of books. Serial No. 648,018, Jan. 19. Class 38.
Greif, L., & Bro., Inc., Baltimore, Md. Men's suits, topcoats, overcoats, etc. Serial No. 640,271, Jan. 19. Class 39.
Groove-Rite Tool Co: *See* Stevens, Guy L.
Guardian Chemical Corporation, Long Island City, N. Y. Group of products of related chemical composition. Serial No. 647,622, Jan. 19. Class 6.
Gunnison Homes, Incorporated, New Albany, Ind. Prefabricated homes. Serial No. 640,457, Jan. 19. Class 12.
Hall, Gardiner, Jr., Company, The, South Willington, Conn. Cotton sewing threads. Serial No. 648,992, Jan. 19. Class 43.
Healthways, Los Angeles, Calif. Swimming fins. Serial No. 625,420, Jan. 19. Class 22.
Hershwilk Textile Co., New York, N. Y. Textile fabrics. Serial No. 648,754, Jan. 19. Class 42.
Heyday Shoes, Inc., St. Louis, Mo. Shoes. Serial No. 648,245, Jan. 19. Class 39.
Heyden Chemical Corporation, New York, N. Y. Animal feed supplements. Serial No. 636,638, Jan. 19. Class 18.
Hinzmann and Waldmann, Inc., New York and Brooklyn, N. Y. Bathroom cabinets. Serial No. 603,530, Jan. 19. Class 32.
Hird, Samuel, & Sons, Inc., Garfield, N. J., and New York, N. Y. Worsted suitings. Serial No. 638,259, Jan. 19. Class 42.
Hollingshead, R. M., Corporation, Camden, N. J. Insecticide. Serial No. 624,539, Jan. 19. Class 6.
Holophane Company, Inc., New York, N. Y. Light control demonstration kits. Serial No. 625,982, Jan. 19. Class 26.

Horn, Jefferys and Co., Burbank, Calif. Additives to drilling mud. Serial No. 648,021, Jan. 19. Class 1.
House of Huston, Inc., Coral Gables, Fla. Germicidal, fungicidal, and insecticidal preparation. Serial No. 637,253, Jan. 19. Class 18.
House of Worsted-Tex, Inc., Baltimore, Md., and Philadelphia, Pa. Men's and young men's suits, coats, vests, etc. Serial No. 610,973, Jan. 19. Class 39.
Hubbell, Harvey Incorporated, Bridgeport, Conn. Fluorescent lamp starters. Serial No. 650,444, Jan. 19. Class 21.
Hudson Motor Car Company, Detroit, Mich. Automobiles and automobile bodies. Serial No. 654,,894, Jan. 19. Class 19.
Huffman Manufacturing Company, The, Dayton, Ohio. Bicycles and structural parts thereof. Serial No. 646,615, Jan. 19. Class 19.
Huntington Laboratories, Inc., Huntington, Ind. Concentrated liquid scrub soap. Serial No. 629,493, Jan. 19. Class 52.
Huston, Tom, Peanut Company, Columbus, Ga. Candy, salted and unshelled nuts, crackers, cookies, etc. Serial No. 636,079, Jan. 19. Class 46.
Hydroponic Gardens, Inc., Taunton, Mass. Plant food. Serial No. 648,176, Jan. 19. Class 10.
Ideal Stencil Machine Company, Belleville, Ill. Tape dispensing machines. Serial No. 640,274, Jan. 19. Class 23.
International Paper Company, New York, N. Y. Coated printing paper. Serial No. 641,928, Jan. 19. Class 37.
Jaymar Specialty Company, Brooklyn, N. Y. Jigsaw puzzle game. Serial No. 643,594, Jan. 19. Class 22.
Jenkins, George O., Company, Bridgewater, Mass. Fiberboard. Serial No. 623,231, Jan. 19. Class 50.
Jim's Barber Shop: *See* Liakopoulos, James.
Johnson & Johnson, New Brunswick, N. J. Surgical and hospital masks and caps. Serial No. 637,279, Jan. 19. Class 44.
Johnston Pump Company, Pasadena, Calif. Well pumps. Serial No. 620,601, Jan. 19. Class 23.
Kaiser Gypsum Company, Inc., assignee: *See* Kaiser, Henry J., Company.
Kaiser, Henry J., Company, Oakland, Calif., assignor to Kaiser Gypsum Company, Inc. Texture paint. Serial No. 630,252, Jan. 19. Class 16.
Kaspar & Esh, Inc., New York, N. Y. Diamond bracelets and diamond watch bracelets and parts thereof. Serial No. 647,501, Jan. 19. Class 28.
Kelley-Mahorney Company, Louisville, Ky. Enamel. Serial No. 650,715, Jan. 19. Class 16.
Keltner Chemical Co.: *See* Keltner, Willard A.
Keltner, Willard A., doing business under the name Keltner Chemical Co., Gardendale, Ala. Bean beetle repellent. Serial No. 645,899, Jan. 19. Class 6.
Kleinert, I. B., Rubber Company, New York, N. Y. Diapers. Serial No. 646,476, Jan. 19. Class 39.
Kleinert, I. B., Rubber Company, New York, N. Y. Shower curtains. Serial No. 649,092, Jan. 19. Class 42.
Koeller, F., & Co., Solingen-Ohligs, Germany. Cutlery. Serial No. 633,235, Jan. 19. Class 23.
Kohnstamm, V. & E., Inc., New York, N. Y. Flavoring extracts. Serial No. 604,098, Jan. 19. Class 45.
Koree, Jean U., New York, N. Y. Anticoagulant. Serial No. 615,782, Jan. 19. Class 18.
Kraepelin, Edward O., Miami, Fla. Specially designed haircutters and scissors. Serial No. 624,551, Jan. 19. Class 23.
Lambert Company, The, doing business as John Hudson Moore Co. Division of The Lambert Company, Jersey City, N. J., and New York, N. Y. Stick for chapped hands and lips. Serial No. 642,288, Jan. 19. Class 51.
Lampe, Juliet H., doing business as Texas Plastics, San Antonio, Tex. Ear plugs. Serial No. 652,199, Jan. 19. Class 44.
Landers, Frary & Clark, New Britain, Conn. Electrically-driven vacuum cleaners. Serial No. 623,968, Jan. 19. Class 21.
Lando Products, Inc., San Francisco, Calif. Metal Venetian blind slat stock. Serial No. 634,646, Jan. 19. Class 14.
Larus & Brother Company, Richmond, Va. Smoking tobacco and cigarettes. Serial No. 649,600, Jan. 19. Class 17.
Lasser Brothers Inc., Rochester, N. Y. Venetian blinds. Serial No. 639,759, Jan. 19. Class 32.
Lee Oil and Natural Gas Company, The, Baltimore, Md. Printed polarization charts. Serial No. 648,256, Jan. 19. Class 38.
Leeds Ltd. Coats, Inc., New York, N. Y. Girls', juniors', misses', little women's, and ladies' coats. Serial No. 647,699, Jan. 19. Class 39.
Leeds Ltd. Coats, Inc., New York, N. Y. Girls', juniors', misses', little women's, and ladies' coats. Serial No. 647,938, Jan. 19. Class 39.
Leeds Ltd. Coats, Inc., New York, N. Y. Girls', juniors', misses', little women's and ladies' coats, suits and jackets. Serial No. 649,427, Jan. 19. Class 39.
Leeth Brothers, Washington, D. C. Pneumatic vehicle tires. Serial No. 649,004, Jan. 19. Class 35.
Lehigh Valley Chemical Company, Easton, Pa. Antifreeze composition of matter. Serial No. 649,374, Jan. 19. Class 6.
Lelong, Lucien, Inc., Chicago, Ill., assignor to Coty, Inc., New York, N. Y. Perfume. Serial No. 638,003, Jan. 19. Class 51.
Lennards Limited, Bristol, England. Boots, shoes, slippers, etc. Serial No. 646,406, Jan. 19. Class 39.
Leonard Distributing Co.: *See* Lichtenstein, Leonard.
Leslie Fay Corp., New York, N. Y. Ladies' and misses' suits, coats and jackets. Serial No. 648,916, Jan. 19. Class 39.
L'Horlogerie de Savoie "Lorsa," Annemasse, France. Watches. Serial No. 634,694, Jan. 19. Class 27.
Liakopoulos, James, doing business as Jim's Barber Shop, Douglas, Ariz. Liquid preparation for the treatment of the hair, etc. Serial No. 641,386, Jan. 19. Class 18.
Librascope, Incorporated, Glendale, Calif. Integrators. Serial No. 648,313, Jan. 19. Class 26.
Lichtenstein, Ira, Baldwin, N. Y. Preparation for the relief of pains. Serial No. 643,597, Jan. 19. Class 18.
Lichtenstein, Leonard, doing business as Leonard Distributing Co., Chicago, Ill. Zippers. Serial No. 648,927, Jan. 19. Class 13.
Lincoln Electric Company, The, Cleveland, Ohio. Flux for use in arc welding. Serial Nos. 645,816–18, Jan. 19. Class 6.
Loew's Incorporated, New York, N. Y., and elsewhere. Electrically operated phonographs and record players. Serial No. 648,551, Jan. 19. Class 21.
Lucky Stores, Inc., San Leandro, Calif. Canned fruits, canned vegetables, canned berries, etc. Serial No. 651,267, Jan. 19. Class 46.
Lundbeck, H., & Co., A/S, Copenhagen, Denmark. Medicinal preparation. Serial No. 650,377, Jan. 19. Class 18.
Luwa A. G., Zurich, Switzerland. Exhaust fans; units comprising a supply and return air duct and an exhaust fan, etc. Serial No. 618,238, Jan. 19. Class 34.
Lyle Branchflower Company, Seattle, Wash. Mixtures of methyl esters. Serial No. 649,472, Jan. 19. Class 6.
Lyons-Magnus, Inc., San Francisco, Calif. Condiment composed of prepared and preserved chopped drained zucca melon, etc. Serial No. 632,945, Jan. 19. Class 46.
Madison Research Laboratory, Inc., Pasadena, Calif. Palatable emulsion. Serial No. 633,158, Jan. 19. Class 18.
Magnesium Elektron Limited, Clifton Junction, near Manchester, England. Books, leaflets, and pamphlets. Serial No. 646,412, Jan. 19. Class 38.
Maier, Hermann R., Hope, N. J. Plastic pictorial illustrations or printed cut-outs. Serial No. 641,558, Jan. 19. Class 38.
Mallinckrodt Chemical Works, St. Louis, Mo. Laboratory metals. Serial No. 640,290, Jan. 19. Class 14.
Manhattan Shirt Company, The, New York, N. Y. Men's outer shirts. Serial No. 637,875, Jan. 19. Class 39.
Markiewicz, Anna V., St. Louis, Mo. Bathroom sets. Serial Nos. 650,113–14, Jan. 19. Class 42.
Marlboro Shirt Company, Inc., Baltimore, Md. Dress, negligee and sports shirts, slacks, slack suits, etc. Serial No. 650,316, Jan. 19. Class 39.
Martin Fabrics Corporation, New York, N. Y., now by merger, Martin Fabrics Corporation. Neckties, neckerchiefs and scarfs. Serial No. 647,861, Jan. 19. Class 39.
Mathieson Chemical Corporation, New York, N. Y. Antituberculotic preparation. Serial No. 651,003, Jan. 19. Class 18.
May, Agatha, Ltd., Passaic, N. J. Suntan lotion. Serial No. 638,205, Jan. 19. Class 51.
Mealmaster Recipe File and Menu Service: *See* Cranmore, Mary K.
Mercury Record Corporation, Chicago, Ill. Grooved phonograph records. Serial No. 645,050, Jan. 19. Class 36.
Metallic Magic Razor Hone Co.: *See* Nuss, Reinhold O.
Midcontinent Chemical Company, Grove City, Ohio. Heels. Serial No. 632,893, Jan. 19. Class 39.
Minnesota Mining and Manufacturing Company, St. Paul, Minn. Paint thinner. Serial No. 639,701, Jan. 19. Class 16.
Mizrachi, Joseph, New York, N. Y. Children's leather and fabric shoes. Serial No. 649,010, Jan. 19. Class 39.
Modern Optics, Incorporated, Houston, Tex. Ophthalmic lens blanks. Serial No. 628,599, Jan. 19. Class 26.
Modern Products, Inc. of America, Milwaukee, Wis. Laxative. Serial No. 636,140, Jan. 19. Class 18.
Modiste Shoes, Inc., New York, N. Y. Ladies' and misses' shoes. Serial No. 649,171, Jan. 19. Class 39.
Moore, John Hudson, Co. Division of The Lambert Company: *See* Lambert Company, The.
Morris, Paul, New York, N. Y. Costume jewelry. Serial No. 648,684, Jan. 19. Class 28.
Morse, Walter F., Springfield, Vt. Lubricated tapping wax. Serial No. 644,685, Jan. 19. Class 15.
Mosler Safe Company, The, Hamilton, Ohio. Portable and built-in safes and vaults, safe doors, vault doors, etc. Serial No. 643,849, Jan. 19. Class 25.
Motor Wheel Corporation, Lansing, Mich. Incinerator. Serial No. 644,336, Jan. 19. Class 34.
Murdock, James O., Jr., Palm Beach, Fla. Title of a newspaper column. Serial No. 645,523, Jan. 19. Class 38.
Murphy, Brill and Sahner, Inc., New York, N. Y. Hosiery. Serial No. 647,512, Jan. 19. Class 39.

Murray, John R., doing business as The Ray Drug Co., Oakland, Calif. Pharmaceutical preparation. Serial No. 646,416, Jan. 19. Class 18.
N. V. Tana Maatschappij, Amersfoort, Netherlands. Preparation for polishing boots, shoes, etc. Serial No. 639,233, Jan. 19. Class 4.
National Appliance & Radio Dealers Association, Inc., Chicago, Ill. Promotional services. Serial No. 611,850, Jan. 19. Class 101.
National Grinding Wheel Company, Inc., North Tonawanda, N. Y. Grinding wheels. Serial No. 649,244, Jan. 19. Class 4.
North American Commercial Corporation, New York, N. Y. Textile fabrics. Serial No. 647,798, Jan. 19. Class 42.
Nuss, Reinhold O., doing business as Metallic Magic Razor Hone Co., Spokane, Wash. Metallic hone. Serial No. 641,517, Jan. 19. Class 4.
Orlogin Watch Company, Inc., New York, N. Y. Watches, clocks, and parts thereof. Serial No. 648,126, Jan. 19. Class 27.
P. B. R. Manufacturing Co., Philadelphia, Pa. Collapsible tables. Serial No. 632,953, Jan. 19. Class 32.
Pacific Coast Borax Co., Division of Borax Consolidated, Limited: *See*—
Borax Consolidated, Limited.
Parke, Norman, Company, Chicopee, Mass. Bowling balls. Serial No. 643,502, Jan. 19. Class 22.
Peanut Specialty Co., Chicago, Ill. Candy coated chocolates. Serial No. 640,165, Jan. 19. Class 46.
Perahia Bros. Co. Inc., New York, N. Y. Ladies' coats, jackets, toppers, etc. Serial No. 649,247, Jan. 19. Class 39.
Perma Lox Aluminum Shingle Corp., Portland, Oreg. Aluminum shingles and sheeting therefor. Serial No. 644,058, Jan. 19. Class 12.
Peter Pan Foundations, Inc., New York, N. Y. Brassières and playsuits and swimsuits. Serial No. 648,879, Jan. 19. Class 39.
Peters Sanitary Paper Duster Company: *See*—
Vecchiolla, Peter A.
Pharma-Graft Corporation, The, New York, N. Y. Deodorant and non-perspirant. Serial No. 637,529, Jan. 19. Class 51.
Phoenix, Inc., New York, N. Y. Men's and boys' coats, suits, trousers, etc. Serial No. 635,233, Jan. 19. Class 39.
Pioneer Rubber Company, The, Willard, Ohio. Household and industrial gloves. Serial No. 649,052, Jan. 19. Class 39.
Plymouth Shoe Company, Middleboro, Mass. Shoes. Serial No. 649,536, Jan. 19. Class 39.
Polaroid Corporation, Cambridge, Mass. X-ray film cassettes and X-ray film processing apparatus. Serial Nos. 648,880–1, Jan. 19. Class 26.
Popeil Brothers, Inc., Chicago, Ill. Coffee makers. Serial No. 648,948, Jan. 19. Class 13.
Precision Attachments Company: *See*—
George, Robert K.
Prentis Clothes Corp., New York, N. Y. Boys' and girls' outerwear. Serial No. 634,382, Jan. 19. Class 39.
Prichard, William W., doing business as The Zest Co., Swampscott, Mass. Liquid fertilizer. Serial No. 649,181, Jan. 19. Class 10.
Puritan Skirt & Dress Company, doing business as Forever Young, Waltham, Mass. Women's dresses. Serial No. 650,275, Jan. 19. Class 39.
Putt-Master, Phoenix, Ariz. Golf putters. Serial No. 643,370, Jan. 19. Class 22.
Quality Mattress Company, Rochester, N. Y. Mattresses. Serial No. 649,385, Jan. 19. Class 32.
Queen Manufacturing Co., Inc., Chicago, Ill. Utility stools. Serial No. 649,901, Jan. 19. Class 32.
Rand Rubber Company, Inc., Brooklyn, N. Y. Baby pants. Serial No. 545,644, Jan. 19. Class 39.
Ray Drug Co., The: *See*—
Murray, John R.
Reliance Manufacturing Company, Chicago, Ill. Jackets. Serial No. 645,592, Jan. 19. Class 39.
Remington Rand Inc., New York, N. Y. Inked ribbons. Serial No. 650,120, Jan. 19. Class 11.
Renee Novelties, Inc., Woodmere, N. Y. Costume jewelry. Serial No. 641,693, Jan. 19. Class 28.
Research Products Corporation, Madison, Wis. Adhesive dust-arresting composition. Serial No. 621,983, Jan. 19. Class 6.
Rice Growers Association of California, Sacramento, Calif. Rice. Serial No. 642,691, Jan. 19. Class 46.
Rich Art Color Company, Inc., New York, N. Y. Artists' materials. Serial No. 636,498, Jan. 19. Class 16.
Ripps, Jack C., doing business as Union Hosiery & Neckwear Co., Los Angeles, Calif. Men's, women's and children's hosiery and anklets. Serial No. 647,446, Jan. 19. Class 39.
Ripps, Jack C., doing business as Union Hosiery & Neckwear Co., Los Angeles, Calif. Ladies' hosiery. Serial No. 647,447, Jan. 19. Class 39.
Robeson Process Company, New York, N. Y. Liquid composition of matter employed as a treating and tanning agent. Serial No. 649,387, Jan. 19. Class 6.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Scouring powder. Serial No. 586,434, Jan. 19. Class 4.
Ross, Walter W., and Company, Inc., doing business as Beta Sigma Phi and sometimes Beta Sigma Phi International, Kansas City, Mo. Organizing of chapters in a national business society, etc. Serial Nos. 635,376–7, Jan. 19. Class 100.
Ross, Will, Inc., Milwaukee, Wis. Disposable surgical dressings. Serial No. 652,131, Jan. 19. Class 44.
Rothstein, Isidore A., New York, N. Y. Sanitary napkins. Serial No. 637,616, Jan. 19. Class 44.
Royal Lace Paper Works, Inc., Brooklyn, N. Y. Table place mats. Serial No. 649,730, Jan. 19. Class 37.
Rubinstein, Helena, Inc., New York, N. Y. Hair bleaching, hair dyeing, and hair tinting preparations. Serial No. 636,433, Jan. 19. Class 51.
Rundle, George H., Company, The, Piqua, Ohio. Medicated cream. Serial No. 647,045, Jan. 19. Class 18.
Ste. Pierre Smirnoff Fils., Inc., Hartford, Conn. Vodka. Serial No. 650,537, Jan. 19. Class 49.
Schenley Industries, Inc., New York, N. Y. Whiskey. Serial No. 650,731, Jan. 19. Class 49.
Schulster & Goldberg, New York, N. Y. Jewelry and precious-metalware. Serial No. 632,226, Jan. 19. Class 28.
Sears, Roebuck and Co., Chicago, Ill. Group A–baseball gloves, baseballs, playground balls, etc. Serial No. 548,857, Jan. 19. Class 22.
Sears, Roebuck and Co., Chicago, Ill. Bicycle speedometers. Serial No. 548,859, Jan. 19. Class 26.
Sears, Roebuck and Co., Chicago, Ill. Sports clothing. Serial No. 548,860, Jan. 19. Class 39.
Seligmann, Otto, New York, N. Y. Photographic cameras and light-sensitive photographic paper and photographic film. Serial No. 643,617, Jan. 19. Class 26.
Sellstrom Manufacturing Company, Chicago, Ill. Respirators. Serial No. 642,115, Jan. 19. Class 44.
Seltzer, Fred, Co., Chicago, Ill. Gold rings. Serial No. 644,349, Jan. 19. Class 28.
Shane Shoe Co. Inc., New York, N. Y. Men's, women's, and children's shoes. Serial No. 638,107, Jan. 19. Class 39.
Shulton, Inc., Clifton, N. J., and New York, N. Y. Ointment. Serial No. 647,319, Jan. 19. Class 18.
Silent Chief Company, Minneapolis, Minn. Electric garbage disposer. Serial No. 635,494, Jan. 19. Class 21.
Simmons Company, New York, N. Y. Bedroom furniture. Serial No. 650,606, Jan. 19. Class 32.
Sky High Enterprises: *See*—
Stamler, Joseph.
Smith-Johannsen, Robert, doing business as Smith-Johannsen Wax Co., Niskayuna, N. Y. Liquid plastic base coating composition. Serial No. 642,656, Jan. 19. Class 16.
Smith-Johannsen Wax Co.: *See*—
Smith-Johannsen, Robert.
Smith, Kline & French Laboratories, Philadelphia, Pa. Medicine. Serial No. 632,050, Jan. 19. Class 18.
Smith and Smith Company, Pittsburgh, Pa. Tooth brush. Serial No. 647,106, Jan. 19. Class 29.
Solar Steel Corporation, Cleveland, Ohio. Steel bars. Serial No. 647,890, Jan. 19. Class 14.
Solar Steel Corporation, Cleveland, Ohio. Steel bars. Serial No. 648,572, Jan. 19. Class 14.
Southern States Equipment Corporation, Hampton, Ga. Electric switches and component parts thereof. Serial No. 648,573, Jan. 19. Class 21.
Sprouli, Geo., Company, Inc., Shreveport, La. Ready-mixed paints, stains, enamels, etc. Serial No. 627,230, Jan. 19. Class 16.
Stalfort Pressure-Pak, Inc., Baltimore, Md. Aerosol room deodorant. Serial No. 614,369, Jan. 19. Class 6.
Stamler, Joseph, doing business under the name and style of Sky High Enterprises, New York, N. Y. Advertising agency services. Serial No. 643,438, Jan. 19. Class 101.
Standard Motor Products, Inc., Long Island City, N. Y. Speedometer parts. Serial No. 593,755, Jan. 19. Class 26.
Star Brush Manufacturing Co., Inc., Boston, Mass. Brushes. Serial No. 648,808, Jan. 19. Class 29.
Stein, Hall & Company, Inc., New York, N. Y. Potato starch. Serial No. 640,233, Jan. 19. Class 6.
Steinman, David, Detroit, Mich. Golf equipment, baseball equipment, football equipment, etc. Serial No. 633,002, Jan. 19. Class 22.
Stern Brothers, New York, N. Y. Blouse trees. Serial No. 639,525, Jan. 19. Class 50.
Stern's Nurseries, Inc., Geneva, N. Y. Soil conditioner. Serial No. 645,737, Jan. 19. Class 10.
Stevens, Guy L., doing business as Groove-Rite Tool Co., Farmington, Mich. Piston knurling machines. Serial No. 633,276, Jan. 19. Class 23.
Stevenson, Richard E., doing business under the name of Wampum Stamp Co., Medford, Oreg. Sales promotion of the goods and services of others. Serial No. 638,819, Jan. 19. Class 101.
Stockton Manufacturing Company, Dallas, Tex. Misses', juniors', and children's dresses, suits, jackets, etc. Serial No. 646,692, Jan. 19. Class 39.
Strickland, J., & Co., Memphis, Tenn. Hair dressing. Serial No. 644,575, Jan. 19. Class 51.
Strong, Cobb and Company, Inc., Cleveland, Ohio. Sedative preparation. Serial No. 646,500, Jan. 10. Class 18.
Sullivan, Margerite V., doing business as Acrozone Laboratories, New Orleans, La. Skin ointment. Serial No. 621,036, Jan. 19. Class 18.
Sunbeam Corporation, Chicago, Ill. Electric bottle warmers. Serial No. 650,746, Jan. 19. Class 21.

Sunbeam Corporation, Chicago, Ill. Electric food mixers. Serial No. 650,747, Jan. 19. Class 21.
Sunbeam Corporation, Chicago, Ill. Electric cookers and deep fryers. Serial No. 650,842, Jan. 19. Class 21.
Supreme Wire & Cable Inc., assignee: *See*
Chester Plastic Products Corp.
Sutherland Paper Company, Kalamazoo, Mich. Collapsible cartons. Serial No. 644,643, Jan. 19. Class 2.
Swan-Finch Oil Corporation, New York, N. Y. Core oils and core binders. Serial No. 639,457, Jan. 19. Class 5.
Sylray Underwear Co., Orwigsburg, Pa. Knitted underwear. Serial No. 651,369, Jan. 19. Class 39.
Taylor Implement Manufacturing Company, Athens, Tenn. Disc plows, disc harrows, disc tiller plows, etc. Serial No. 635,941, Jan. 19. Class 23.
Tell City Chair Co., Tell City, Ind. Chairs. Serial No. 649,030, Jan. 19. Class 32.
Terre Haute Brewing Company, Inc., Terre Haute, Ind. Beer. Serial No. 645,844, Jan. 19. Class 48.
Texas Plastics: *See*—
Lampe, Juliet H.
Thrift-D-Lux Cleaners, Inc., Los Angeles, Calif. Dry cleaning and pressing of garments and other materials. Serial No. 635,005, Jan. 19. Class 103.
Toledo Plate & Window Glass Company, The, Toledo, Ohio. Flat glass. Serial No. 647,895, Jan. 19. Class 33.
Topco Associates Inc.: *See*—
Topco Associates, Inc. (Cooperative).
Topco Associates, Inc. (Cooperative), sometimes known as Topco Associates Inc., Chicago, Ill. Coffee, tea, vegetable shortening, etc. Serial Nos. 654,773–4, Jan. 19. Class 46.
Tory Hat Co. Inc., New York, N. Y. Men's hats. Serial No. 639,967, Jan. 19. Class 39.
Touch-Plate Mfg. Corp., Long Beach, Calif. Impulse relays, momentary electrical contact switches, converters, etc. Serial No. 643,874, Jan. 19. Class 21.
Trans World Airlines, Inc., Kansas City, Mo. Air transportation. Serial No. 638,226, Jan. 19. Class 105.
Triangle Finishing Corp., Johnstown, N. Y. Treating the goods of others. Serial No. 600,458, Jan. 19. Class 106.
Tribune Company, sometimes identified merely as The Chicago Daily Tribune or Chicago Sunday Tribune, Chicago, Ill. Title for a newspaper section. Serial No. 645,845, Jan. 19. Class 38.
Turner & Seymour Manufacturing Company, The, Torrington, Conn. Bathroom fixtures. Serial No. 647,966, Jan. 19. Class 13.
Tyee Camp Equipment, Everett, Wash. Camp cots. Serial No. 648,816, Jan. 19. Class 32.
Union Hosiery & Neckwear Co.: *See*—
Ripps, Jack C.
U. S. Diamond Ring Co., Inc., New York, N. Y. Bracelets. Serial No. 650,849, Jan. 19. Class 28.
Universal Oil Products Company, Chicago, Ill. Apparatus in the nature of a plant for the treatment of hydrocarbons. Serial No. 605,934, Jan. 19. Class 23.
Upjohn Company, The, Kalamazoo, Mich. Antibiotic preparation. Serial No. 639,349, Jan. 19. Class 18.
Valentine Dolls, Inc., New York, N. Y. Dolls. Serial No. 650,850, Jan. 19. Class 22.
Van Ameringen-Haebler, Inc., New York, N. Y. Aromatic chemicals and compounds. Serial No. 649,199, Jan. 19. Class 6.
Vandaveer, H. C., Strawn, Tex. Light-weight and concrete aggregate, clinker and paving brick, track cinders, etc. Serial No. 638,988, Jan. 19. Class 12.
Vecchiolla, Peter A., doing business as Peters Sanitary Paper Duster Company, West Los Angeles, Calif. Barber dusters. Serial No. 648,711, Jan. 19. Class 29.
Vico Products Company, Chicago, Ill. Protein hydrolysate. Serial No. 645,450, Jan. 19. Class 18.
Viking Manufacturing Co., Inc., Stratford, Conn. Electric space heaters. Serial Nos. 647,971–2, Jan. 19. Class 21.
Viking Manufacturing Co., Inc., Stratford, Conn. Sun lamps, electric portable lighting fixtures, heat lamps, etc. Serial No. 647,973, Jan. 19. Class 21.
Vitamins, Inc., Chicago, Ill. Blood plasma substitute. Serial No. 650,952, Jan. 19. Class 18.
Wampum Products, Inc., New York, N. Y. Dog collars. Serial No. 641,360, Jan. 19. Class 3.
Wampum Stamp Co.: *See*—
Stevenson, Richard E.
Waples-Platter Company, Fort Worth, Tex. Canned goods. Serial No. 635,161, Jan. 19. Class 46.
Ware Knitters, Inc., Ware, Mass. Outershirts and pajamas. Serial No. 628,446, Jan. 19. Class 39.
Warren, W., Thread Works, Inc., New York, N. Y. Cotton, silk, and synthetic sewing threads. Serial No. 650,403, Jan. 19. Class 43.
Warwick Club Ginger Ale Co., Inc., West Warwick, R. I. Non-alcoholic maltless soft drink. Serial No. 647,974, Jan. 19. Class 45.
Wate-On Company, Chicago, Ill. Oral lipid emulsion. Serial Nos. 647,673–4, Jan. 19. Class 18.
Weather Products Corporation, Providence and Warwick, R. I. Storm window and screen combinations. Serial No. 631,513, Jan. 19. Class 12.
Weather-Proof Company, The, Cleveland, Ohio. Storm windows. Serial No. 641,817, Jan. 19. Class 12.
Weksler Thermometer Corporation, New York, N. Y. Temperature, pressure and humidity indicating, recording and regulating instruments. Serial No. 648,449, Jan. 19. Class 26.
Weksler Thermometer Corporation, New York, N. Y. Temperature, pressure and humidity indicating, recording and regulating instruments. Serial No. 648,451, Jan. 19. Class 26.
Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. X-ray apparatus and parts therefor. Serial No. 637,018, Jan. 19. Class 44.
Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Electrical commercial refrigerators and parts therefor, electric household refrigerators and parts therefor, etc. Serial No. 637,020, Jan. 19. Class 31.
Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Electric ironing machines and parts therefor; laundry machines and parts therefor; etc. Serial No. 637,021, Jan. 19. Class 24.
Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Electrical apparatus, supplies and parts therefor. Serial No. 637,024, Jan. 19. Class 21.
White Laboratories, Inc., Kenilworth, N. J. Preparation for the treatment of coughs. Serial No. 650,468, Jan. 19. Class 18.
Wilker Bros. Co., New York, N. Y. Men's and boys' pajamas. Serial No. 589,691, Jan. 19. Class 39.
Winslow Engineering Co., Oakland, Calif. Oil filters. Serial No. 644,085, Jan. 19. Class 31.
Wood, J. R., & Sons, Inc., New York, N. Y. Finger rings. Serial No. 647,056, Jan. 19. Class 28.
Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing gum. Serial No. 641,820, Jan. 19. Class 46.
Wurmbock, Dr., G. m. b. H., Munich, Germany. Nail polish remover. Serial No. 652,368, Jan. 19. Class 51.
Y-Cart Laboratories, Newton and West Newton, Mass. Medicinal preparation. Serial No. 650,852, Jan. 19. Class 18.
Youthcraft Manufacturing Company, Kansas City, Mo. Ladies' and misses' suits and coats. Serial No. 649,204, Jan. 19. Class 39.
Zest Co., The: *See*—
Prichard, William W.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Alkaloidal Co., The, Chicago, to Abbott Laboratories, North Chicago, Ill. Remedies for the cure or alleviation of croup, etc. 42,124, re-renewed Feb. 23, 1954. O. G. Jan. 19. Class 18.
Abbott Laboratories: *See*—
Abbott Alkaloidal Co., The.
Abbott Laboratories, North Chicago, Ill. Antirheumatic and antipyretic compound. 310,989, renewed Mar. 13, 1954. O. G. Jan. 19. Class 18.
Abbott Laboratories, North Chicago, Ill. Feed supplement. 584,838, Jan. 19; Serial No. 634,179, published Oct. 20, 1953. Class 18.
Ace-Hi Records, Inc., Los Angeles and Beverly Hills, Calif. Grooved phonograph records. 584,912, Jan. 19; Serial No. 644,271, published Oct. 27, 1953. Class 36.
Adams, Frederick C., doing business under the name of Wild Acres Turkey Farm, Steep Falls, Maine. Eviscerated oven-ready stuffed and unstuffed turkeys. 584,899, Jan. 19; Serial No. 643,259, published Oct. 20, 1953. Class 46.
Alumiclad Doors, Inc., Port Orange, Fla. Building doors. 584,843, Jan. 19; Serial No. 635,212, published Oct. 20, 1953. Class 12.
Alumi-Gard Company, Chicago, Ill. Ready-mixed paint products. 584,972, Jan. 19; Serial No. 622,572. Class 16.
American Gilsonite Company, Salt Lake City, Utah. Ground, hard bitumen used as insulating material. 584,873, Jan. 19; Serial No. 640,032, published Oct. 20, 1953. Class 12.
American Hoist & Derrick Co., St. Paul, Minn. Single and multiple drum hoists and drums therefor. 584,748. Jan. 19; Serial No. 540,957, published July 28, 1953. Class 23.
American Metal Specialties Corporation, Hatboro, Pa. Child's toy. 584,986, Jan. 19; Serial No. 634,625. Class 22.
American Plastics Corporation, New York, N. Y. Synthetic resinous materials. 584,943, Jan. 19; Serial No. 645,942, published Oct. 20, 1953. Class 6.
American Stores Company, Philadelphia, Pa. Bacon. 584,753, Jan. 19; Serial No. 590,056, published Feb. 24, 1953. Class 46.
Apothecaries Hall Company, Waterbury, Conn. Cleaner-sanitizer. 584,887, Jan. 19; Serial No. 641,662, published Oct. 20, 1953. Class 52.

Ardalt Inc., New York, N. Y. Porcelain vases; chinaware. 584,791, Jan. 19; Serial No. 624,583, published Aug. 18, 1953. Class 30.

Ardoll Products: *See*—
Simmons, Pearl M.

Ash Grove Lime & Portland Cement Company, to Ash Grove Lime & Portland Cement Company, Kansas City, Mo. Chemical lime. 309,395, renewed Jan. 9, 1954. O. G. Jan. 19. Class 6.

Atlantis, Inc., New York, N. Y. Illustrated magazine. 584,919, Jan. 19; Serial No. 644,534, published Oct. 13, 1953. Class 38.

Atlas Canning Company, Inc., Brooklyn, to Atlas Canning Company, Inc., Glendale, N. Y. Canned food. 310,719, renewed Mar. 6, 1954. O. G. Jan. 19. Class 46.

Atlas Underwear Company, The, Piqua, Ohio. Infants' training pants. 584,953, Jan. 19; Serial No. 646,645, published Oct. 27, 1953. Class 39.

Aurora Products Corporation, Cleveland, Ohio. Composition for the surface treatment of uncured rubber stocks to remove stickiness. 584,987, Jan. 19; Serial No. 634,881. Class 6.

B-Z-B Honey Company: *See*—
Schumacher, H. H.

Badger Carton Company, to Wells Badger Corporation, Milwaukee, Wis. Paperboard set-up toys. 309,333, renewed Jan. 9, 1954. O. G. Jan. 19. Class 22.

Bailey Shoe Company, San Angelo, Tex. Women's house slippers. 584,826, Jan. 19; Serial No. 632,499, published Oct. 27, 1953. Class 39.

Baldwin, Henry W., doing business as Baldwin Laboratories, Saegerstown, Pa., to Boyle-Midway Inc., New York, N. Y. Preparation for removing ink, insecticide for domestic use, etc. 308,870, renewed Dec. 26, 1953. O. G. Jan. 19. Class 52.

Baldwin Laboratories: *See*—
Baldwin, Henry W.

Barber & Bennett, to Barber & Bennett, Inc., Albany, N. Y. Rye, wheat and buckwheat flour. 95,863, renewed Mar. 24, 1954. O. G. Jan. 19. Class 46.

Barber & Bennett, Inc.: *See*—
Barber & Bennett.

Barrow, Hepburn & Gale Limited, London, England. Tanned and untanned and dressed and undressed leather and skins in the piece. 584,782, Jan. 19; Serial No. 621,127, published Oct. 20, 1953. Class 1.

Barry, Lewis, Upper Darby, Pa. Interlocking rubber floor tile. 584,881, Jan. 19; Serial No. 641,264, published Oct. 20, 1953. Class 12.

Bates Manufacturing Company, The, West Orange, to The Bates Manufacturing Company, Orange, N. J. Paper fastening devices and paper fasteners. 310,903, renewed Mar. 13, 1954. O. G. Jan. 19. Class 23.

Bay City Milling & Grocery Co.: *See*—
K B Beverage Company.

Beautergent Products: *See*—
Dupuy, Charles F. J.

Beaver, Edmund, Clifton, Tex. Games. 584,993, Jan. 19; Serial No. 639,150. Class 22.

Belleville Shoe Manufacturing Company, Belleville, Ill. Hunting boots. 584,917, Jan. 19; Serial No. 644,383, published Oct. 6, 1953. Class 39.

Bel-Toe Foundation Company: *See*—
Talley, Dolen O.

Big Horn Canning Company, assignee: *See*—
Midland Canning Corporation.

Blind-Eze Company, Otsego, Mich. Hand implements for cleaning the slats of Venetian blinds. 584,976, Jan. 19; Serial No. 625,785. Class 29.

Booster Chemical & Engineering Co.: *See*—
Windsor-Lloyd Products, Inc.

Bourjois, Inc., New York, N. Y. Toilet soap. 310,371, renewed Feb. 20, 1954. O. G. Jan. 19. Class 52.

Bourjois, Inc., New York, N. Y. Perfume, cologne and cologne stick. 584,931, Jan. 19; Serial No. 645,384, published Oct. 6, 1953. Class 51.

Boutwell, Milne & Varnum Co., to Rock of Ages Corporation, Barre, Vt. Granite blocks and monumental stones. 95,516, re-renewed Feb. 24, 1954. O. G. Jan. 19. Class 12.

Bowl-O-Beauty Co., Maywood, Ill. Floral display. 584,789, Jan. 19; Serial No. 624,020, published Oct. 27, 1953. Class 50.

Boyle-Midway Inc.: *See*—
Baldwin, Henry W.
Midway Chemical Co.
Wizard, Inc.

Brevitt Shoes Limited, Leicester, England. Boots, shoes and slippers. 584,861, Jan. 19; Serial No. 637,910, published Oct. 13, 1953. Class 39.

Brock & Company, Inc., Philadelphia, Pa. Chocolate candy. 584,918, Jan. 19; Serial No. 644,493, published Oct. 20, 1953. Class 46.

Brown, E. C., Co., The, Canandaigua, N. Y. Hand-operated pump type sprayers, and parts therefor. 584,895, Jan. 19; Serial No. 642,612, published Sept. 15, 1953. Class 23.

Brown, E. C., Co., The, Canandaigua, N. Y. Hand-operated pump type sprayers, and parts therefor. 584,900, Jan. 19; Serial No. 643,283, published Sept. 15, 1953. Class 23.

Buckeye Soda Company, The, Painesville, Ohio. Controlled suds washing compound. 584,799, Jan. 19; Serial No. 626,653, published Oct. 13, 1953. Class 52.

Bucyrus-Erie Company, Wilmington, Del., and South Milwaukee, Wis. Power-shovels, drag-shovels, cranes, etc. 584,979, Jan. 19; Serial No. 627,380. Class 23.

Bulova Watch Company, Inc., New York, N. Y. Clock radios. 584,913, Jan. 19; Serial No. 644,277, published Oct. 20, 1953. Class 21.

Calhoun, Leslie A., Minneapolis, Minn. Sick call set for priests. 584,897, Jan. 19; Serial No. 642,800, published Oct. 20, 1953. Class 50.

California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Soil conditioners. 584,950, Jan. 19; Serial No. 646,599, published Oct. 27, 1953. Class 10.

Cal Tek Industries: *See*—
Smith, R. Edward.

Camay Hosiery Mills: *See*—
Kahn, Morris.

Cambridge Rubber Company, The, Cambridge, Mass., and Taneytown, Md. Boots. 584,804, Jan. 19; Serial No. 628,190, published Oct. 27, 1953. Class 39.

Candy-Lane, Inc., Los Angeles, Calif. Candy. 584,754, Jan. 19; Serial No. 590,351, published Mar. 18, 1952. Class 46.

Cardinal Food Products, Inc., St. Louis, Mo. Canned food. 584,977, Jan. 19; Serial No. 626,604. Class 46.

Cardwell Westinghouse Company, Chicago, Ill. Railway friction draft gears. 584,868, Jan. 19; Serial No. 639,315, published Aug. 11, 1953. Class 19.

Carmi-Ainsbrooke Corporation, New York, N. Y. Men's pajamas and undershorts. 584,806, Jan. 19; Serial No. 629,424, published Oct. 27, 1953. Class 39.

Castiglione Accordion Company: *See*—
Castiglione, Vincent.

Castiglione, Vincent, doing business as Castiglione Accordion Company, Detroit, Mich. Accordions. 584,906, Jan. 19; Serial No. 644,011, published Oct. 27, 1953. Class 36.

Chili Products Corporation Ltd., Los Angeles, Calif. Chili powder. 584,901, Jan. 19; Serial No. 643,647, published Oct. 20, 1953. Class 46.

Chitty & Co., Jacksonville, Fla. Coffee, canned vegetables, canned fruits, etc. 309,855, renewed Feb. 6, 1954. O. G. Jan. 19. Class 46.

Chitty & Co., Jacksonville, Fla. Canned vegetables, canned sauerkraut, canned apple sauce, etc. 309,856, renewed Feb. 6, 1954. O. G. Jan. 19. Class 46.

Clarinda Poultry, Butter & Egg Co., Clarinda, Iowa, to Swift & Company, Chicago, Ill. Poultry. 41,451, renewed Nov. 10, 1953. O. G. Jan. 19. Class 46.

Cohn & Rosenberger, Inc., by Coro, Inc., New York, N. Y. Necklaces and bracelets, finger rings, etc. 349,268, Aug. 24, 1937. Republished Jan. 19. Classes 2, 8, and 28.

Cohn & Rosenberger, Inc., by Coro, Inc., New York, N. Y. Pins, clips, brooches, etc. 378,029, May 21, 1940. Republished Jan. 19. Class 28.

Colgate-Palmolive Company: *See*—
Colgate-Palmolive-Peet Company.

Colgate-Palmolive-Peet Company, Jersey City, N. J., now by change of name, Colgate-Palmolive Company. After shave lotion. 584,865, Jan. 19; Serial No. 638,835, published Oct. 6, 1953. Class 51.

College Town Sportswear, Boston, Mass. Skirts, culottes, jackets, etc. 584,894, Jan. 19; Serial No. 642,524, published Oct. 6, 1953. Class 39.

Colorado Springs Cast Stone Company, Colorado Springs, Colo. Cinder or concrete blocks. 584,988, Jan. 19; Serial No. 636,969. Class 12.

Columbia Broadcasting System, Inc., New York, N. Y. Phonographs and parts thereof. 584,955, Jan. 19; Serial No. 646,850, published Oct. 20, 1953. Class 36.

Columbia Records Inc., Bridgeport, Conn. Grooved phonograph records. 584,945, Jan. 19; Serial No. 646,111, published Oct. 20, 1953. Class 36.

Commercial Solvents Corporation, New York, N. Y. Antibiotic-containing veterinary composition. 584,810, Jan. 19; Serial No. 630,121, published June 23, 1953. Class 18.

Compañia Primer Molino Arrocero de Cuba, S. A., Habana, Cuba. Rice. 310,297, renewed Feb. 20, 1954. O. G. Jan. 19. Class 46.

Continental Coffee Company, Chicago, Ill. Roasted coffee. 433,708, Oct. 28, 1947. Republished Jan. 19. Class 46.

Converted Rice, Inc., Houston, Tex. Rice. 584,858, Jan. 19; Serial No. 637,646, published Oct. 20, 1953. Class 46.

Corcoran Mfg. Co., Long Beach, Calif. Floor mops. 584,898, Jan. 19; Serial No. 642,951, published Oct. 27, 1953. Class 29.

Coro, Inc.: *See*—
Cohn & Rosenberger, Inc.

Coro, Inc., New York, N. Y. Compacts. 422,482, July 23, 1946. Republished Jan. 19, 1954. Class 2.

Coro, Inc., New York, N. Y. Pearl necklaces, pearl earrings, pearl bracelets, etc. 425,516, Nov. 26, 1946. Republished Jan. 19. Classes 2, 8, and 28.

Crown Overall Mfg. Co., The, Cincinnati, Ohio. Men's and boys' overalls, men's trousers and work shirts. 311,549, renewed Mar. 27, 1954. O. G. Jan. 19. Class 39.

Daimler-Benz Aktiengesellschaft: *See*—
Daimler-Motoren-Gesellschaft.

Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany. Picture-frames, mirror, bedsteads, etc. 91,948, re-renewed June 10, 1953. O. G. Jan. 19. Class 32.

Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany. Soldering-lamps, hot-water foot-warmers, foot-warmers, etc. 91,949, re-renewed June 10, 1953. O. G. Jan. 19. Class 34.

Davis Bros. Fisheries Co. Inc., doing business as Magellan Company, Gloucester, Mass. Canned fish and packaged frozen fish. 584,960, Jan. 19; Serial No. 647,976, published Sept. 29, 1953. Class 46.

Deb Shoe Company, Inc., St. Louis, Mo. Women's shoes. 584,951–2, Jan. 19; Serial Nos. 646,605–6, published Oct. 27, 1953. Class 39.

Deering, Milliken & Co., Inc., New York, N. Y. Men's, women's and children's outer garments. 584,869, Jan. 19; Serial No. 639,317, published Oct. 6, 1953. Class 39.

Dell Publishing Company, Inc., New York, N. Y. Magazine. 584,902, Jan. 19; Serial No. 643,897, published Oct. 13, 1953. Class 38.

Diamond Expansion Bolt Co., New York, N. Y., to Diamond Expansion Bolt Co., Inc., Garwood, N. J. Expansion-shields, screws, expansion-bolts, etc. 95,999, re-renewed Mar. 31, 1954. O. G. Jan. 19. Class 13.

Diamond Expansion Bolt Co., Inc.: *See*—
Diamond Expansion Bolt Co.

Dole Sales Company: *See*—
Hawaiian Pineapple Company, Limited.

Domecq, Pedro, to Pedro Domecq, S. A., Jerez de la Frontera, Spain. Brandies. 89,632, re-renewed Dec. 31, 1952. O. G. Jan. 19. Class 49.

Domecq, Pedro, to Pedro Domecq, S. A., Jerez de la Frontera, Spain. Brandies. 89,738–40, re-renewed Jan. 7, 1953. O. G. Jan. 19. Class 49.

Domecq, Pedro, S. A.: *See*—
Domecq, Pedro.

Don Large Enterprises Inc., Detroit, Mich. Mechanically grooved phonograph records. 584,954, Jan. 19; Serial No. 646,779, published Oct. 20, 1953. Class 36.

Donnelley, R. R., & Sons Company, Chicago, Ill. Binding of books, pamphlets, catalogues, magazines, etc. 584,963, Jan. 19; Serial No. 600,950, published Sept. 1, 1953. Class 106.

Donovan, F. C., Inc., Boston, Mass. Leather. 584,849, Jan. 19; Serial No. 636,123, published Oct. 20, 1953. Class 1.

Doyle, B. W., doing business as Doyle Packing Company, to Doyle Packing Company, Los Angeles, Calif. Canned cat food. 303,902, renewed June 13, 1953. O. G. Jan. 19. Class 46.

Doyle Packing Company: *See*—
Doyle, B. W.

Dri-Babe of California, Inc., Santa Monica, Calif. Diapers. 584,852, Jan. 19; Serial No. 636,412, published Oct. 27, 1953. Class 39.

Dunn, W. E., Manufacturing Company, The, Holland, Mich. Concrete building blocks. 584,770, Jan. 19; Serial No. 612,598, published Dec. 9, 1952. Class 12.

Dupuy, Charles F. J., doing business under the tradename Beautergent Products, Allendale, N. J. Sponge containing a detergent. 584,780, Jan. 19; Serial No. 618,915, published Oct. 15, 1953. Class 52.

E. L. M. Feed Stores: *See*—
E. L. M. Stores.

E. L. M. Stores, also doing business as E. L. M. Feed Stores, Greencastle, Pa. Poultry and stock foods. 584,774, Jan. 19; Serial No. 614,269, published Oct. 20, 1953. Class 46.

Easterling China Company, Chicago, Ill. China tableware. 584,781, Jan. 19; Serial No. 619,822, published Oct. 27, 1953. Class 30.

Econocast, Inc., Chattanooga, Tenn. Metal castings. 584,800–1, Jan. 19; Serial Nos. 627,119–20, published Oct. 27, 1953. Class 14.

Edge, John Peter, Ltd., New York, N. Y. Lotion for the relief of dogs suffering from ticks, fleas, etc. 584,985, Jan. 19; Serial No. 633,492. Class 52.

Edwards, J., & Co., assignor to J. Edwards & Co., Inc., Philadelphia, Pa. Women's, misses', children's, infants' and babies' shoes. 584,909, Jan. 19; Serial No. 644,104, published Oct. 6, 1953. Class 39.

Edwards, J., & Co., Inc., assignee: *See*—
Edwards, J., & Co.

Electric & Musical Industries Limited, Hayes, England. Grooved phonograph records and record blanks. 584,886, Jan. 19; Serial No. 641,443, published Oct. 13, 1953. Class 36.

Electric Sprayit Company, The, Sheboygan, Wis. Portable hand-operated electric sprayers and dusters. 584,817, Jan. 19; Serial No. 631,911, published Oct. 20, 1953. Class 21.

Electrical Fittings Corporation, Woodside, N. Y. Electrical wiring supplies and accessories therefor. 584,872, Jan. 19; Serial No. 639,923, published Oct. 20, 1953. Class 21.

Electronic Fabricators, Inc., New York, N. Y. Condensers used in conjunction with all types of electronic equipment. 584,911, Jan. 19; Serial No. 644,226, published Oct. 20, 1953. Class 21.

Endicott Johnson Corporation, Endicott, N. Y. Shoes and also for leather insoles. 584,885, Jan. 19; Serial No. 641,373, published Oct. 6, 1953. Class 39.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Putty-like, non-metallic composition. 584,847, Jan. 19; Serial No. 635,356, published Oct. 20, 1953. Class 12.

Evangelical Methodist Church, The, Altoona, Pa. Religious publications. 584,879, Jan. 19; Serial No. 641,179, published Oct. 13, 1953. Class 38.

Excelsior Accordions, Inc., New York, N. Y. Accordions. 584,941, Jan. 19; Serial No. 645,789, published Oct. 20, 1953. Class 36.

Extraction & Chemical Company Inc., New York, N. Y. Mouthwashes. 584,968, Jan. 19; Serial No. 586,967. Class 51.

Fairhope Fabrics, Inc., Fall River, Mass. Bandages. 584,995, Jan. 19; Serial No. 640,265. Class 44.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Synthetic plastic materials. 584,842, Jan. 19; Serial No. 635,129, published Oct. 20, 1953. Class 6.

Federated Department Stores, Inc., Cincinnati, Ohio. Household scissors and household shears. 584,889, Jan. 19; Serial No. 642,028, published Sept. 15, 1953. Class 23.

Felca S. A., Granges, Switzerland. Watches, and parts of watches. 584,764, Jan. 19; Serial No. 603,289, published Oct. 27, 1953. Class 27.

Field and Flint Co., Brockton, Mass. Boots and shoes. 308,016, renewed Nov. 14, 1953. O. G. Jan. 19. Class 39.

Finnell System, Incorporated, Elkhart, Ind. Soap and scouring powder. 584,825, Jan. 19; Serial No. 632,472, published Oct. 20, 1953. Class 52.

Finnigans, Limited, London, England, and New York, N. Y. Luggage and leather goods. 584,971, Jan. 19; Serial No. 618,159. Class 3.

Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. 584,751, Jan. 19; Serial No. 563,921, published Oct. 20, 1953. Class 46.

Fisher, Joseph V., assignor to Fretco, Inc., Pittsburgh, Pa. Antennas, wire transmission lines, transmitter and receiver sets. 584,994, Jan. 19; Serial No. 639,560. Class 21.

Flli De Cecco Di Filippo, Abruzzi, Italy. Alimentary pastes. 584,823, Jan. 19; Serial No. 632,364, published Sept. 29, 1953. Class 46.

Flli De Cecco Di Filippo, Abruzzi, Italy. Alimentary pastes. 584,824, Jan. 19; Serial No. 632,365, published Oct. 20, 1953. Class 46.

Flour Mills of America, Inc., Kansas City, Mo. Egg mash, concentrated poultry feed, hog feed, etc. 584,785, Jan. 19; Serial No. 622,432, published June 17, 1952. Class 46.

Fox, Geo. A., Products Co., Inc., Kansas City, Mo. Machines employing electric light bulbs. 584,802, Jan. 19; Serial No. 627,331, published Oct. 20, 1953. Class 21.

Frank Industries, Inc., Eau Claire, Wis. Fire alarms of a type containing an explosive element and a firing pin. 584,922, Jan. 19; Serial No. 644,669, published Oct. 27, 1953. Class 9.

Fratelli Reguitti s. r. l., Agnosine, Brescia, Italy. Skirt hangers and coat hangers, etc. 584,818, Jan. 19; Serial No. 631,924, published Oct. 6, 1953. Class 50.

Fretco, Inc., assignee: *See*—
Fisher, Joseph V.

Gaines, Reginald R., doing business as The Rock Wool Insulation Co., Washington, D. C. Building insulation. 584,828, Jan. 19; Serial No. 633,577, published Oct. 20, 1953. Class 12.

Gateway Chemicals, Inc., Chicago, Ill. Cleaning compound. 584,840, Jan. 19; Serial No. 634,938, published Oct. 20, 1953. Class 52.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 584,921, Jan. 19; Serial No. 644,613, published Oct. 27, 1953. Class 28.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 584,926–8, Jan. 19; Serial Nos. 644,908–10, published Oct. 27, 1953. Class 28.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 584,942, Jan. 19; Serial No. 645,798, published Oct. 27, 1953. Class 28.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 584,949, Jan. 19; Serial No. 646,544, published Oct. 27, 1953. Class 28.

General Electric Company, Schenectady, N. Y. Phonograph styli. 584,871, Jan. 19; Serial No. 639,629, published Oct. 27, 1953. Class 36.

General Foods Corporation, New York, N. Y. Preparation for making coffee substitute. 584,867, Jan. 19; Serial No. 639,220, published Oct. 20, 1953. Class 46.

General Shoe Corporation, Nashville, Tenn. Shoes. 584,929, Jan. 19; Serial No. 644,979, published Oct. 6, 1953. Class 39.

Germain's, Inc., Los Angeles, Calif. Flower seeds. 584,798, Jan. 19; Serial No. 626,507, published Oct. 20, 1953. Class 1.

Globe Ring Co., New York and Brooklyn, N. Y. Metal castings. 584,786, Jan. 19; Serial No. 622,650, published Oct. 27, 1953. Class 14.

Globe-Union Inc., Milwaukee, Wis. Storage batteries. 584,903, Jan. 19; Serial No. 643,952, published Oct. 20, 1953. Class 21.

Granite Hosiery Mills: *See*—
Melrose Hosiery Mills, Inc.

Grants Pass Sporting Goods, Grants Pass, Oreg. Fishing rods, fishing lines, fishhooks, etc. 584,875, Jan. 19; Serial No. 640,512, published Oct. 20, 1953. Class 22.

Gregg Products Co., Grand Rapids, Mich. Grease and oil-absorbent cleaning composition. 584,982, Jan. 19; Serial No. 631,351. Class 52.

Group Health Mutual Incorporated, St. Paul, Minn. Underwriting of insurance. 584,965, Jan. 19; Serial No. 613,003, published Oct. 7, 1952. Class 102.

Hartwell Brothers, Memphis, Tenn. Handles for tools. 309,041, renewed Dec. 26, 1953. O. G. Jan. 19. Class 23.

Harvey, John & Robt., & Company Limited, Glasgow, Scotland. Whisky. 304,693, renewed July 18, 1953. O. G. Jan. 19. Class 49.

Hawaiian Pineapple Company, Limited, doing business as Dole Sales Company, Honolulu, Hawaii, and San Francisco, Calif. Canned frozen fresh fruit and canned frozen concentrated fruit juice. 584,990, Jan. 19; Serial No. 637,585. Class 46.

Health Guardian Corporation, Chicago, Ill., and Monroe, Wis. Electrical signaling device. 584,981, Jan. 19; Serial No. 631,057. Class 21.

Heller, George W., Inc., New York, N. Y. Men's wearing apparel. 584,808, Jan. 19; Serial No. 629,671, published Oct. 27, 1953. Class 39.

Hershey Chocolate Corporation, Hershey, Pa. Solid chocolate. 584,788, Jan. 19; Serial No. 623,544, published Sept. 29, 1953. Class 46.

Hijos de Francisco Serrano, Oviedo, Spain. Anisette. 304,628, renewed July 11, 1953. O. G. Jan. 19. Class 49.

Hijos de Francisco Serrano, Oviedo, Spain. Aniseed brandies and liquors. 304,630, renewed July 11, 1953. O. G. Jan. 19. Class 49.

Hill-Smith Termite Control Co., Memphis, Tenn. Chemical treatment of buildings and wooden structures for preserving and protecting same against termites, etc. 584,967, Jan. 19; Serial No. 632,936, published Oct. 27, 1953. Class 103.

Hirschman, Maude, San Pedro, Calif. Medicated preparation. 584,839, Jan. 19; Serial No. 634,410, published Sept. 22, 1953. Class 18.

Hockaday, Margaret, New York, N. Y. Dolls. 584,876, Jan. 19; Serial No. 640,632, published Oct. 20, 1953. Class 22.

Hollingshead, R. M., Corporation, Camden, N. J. Chemical compounds for cleaning engine and machinery parts, etc. 584,790, Jan. 19; Serial No. 624,546, published Oct. 20, 1953. Class 52.

Holsten-Brauerei, Altona, to Holsten-Brauerei, Hamburg-Altona, Germany. Malt beverages. 306,117, renewed Sept. 5, 1953. O. G. Jan. 19. Class 48.

Homes, Incorporated, Knoxville, Tenn. Electric radiant heating cables. 584,996, Jan. 19; Serial No. 640,401. Class 21.

Houbigant, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 186,002, July 1, 1924. Republished Jan. 19. Class 51.

House of Swansdown, Inc., The, New York, N. Y. Ladies' and misses' outerwear. 584,939, Jan. 19; Serial No. 645,710, published Oct. 27, 1953. Class 39.

Howe, John E., Yuma, Ariz. Fresh melons. 584,827, Jan. 19; Serial No. 633,309, published Oct. 27, 1953. Class 46.

Hudnut, Richard, New York, N. Y. Perfume. 584,831, Jan. 19; Serial No. 633,673, published Oct. 20, 1953. Class 51.

Hudnut, Richard, New York, N. Y. Cosmetic kits. 584,832, Jan. 19; Serial No. 633,674, published Oct. 20, 1953. Class 51.

Hutton, J. C., to J. C. Hutton Proprietary Limited, Melbourne, Victoria, Australia. Cured meats 41,720, renewed Dec. 22, 1953. O. G. Jan. 19. Class 46.

Hutton, J. C., Proprietary Limited: *See*—
Hutton, J. C.

Hyde Manufacturing Company, Southbridge, Mass. Putty knives and scrapers. 584,890, Jan. 19; Serial No. 642,225, published Sept. 15, 1953. Class 23.

Imperial Typewriter Co. Limited, North Evington, Leicester, to Imperial Typewriter Company Limited, Leicester, England. Type-writers. 94,643, re-renewed Dec. 23, 1953. O. G. Jan. 19. Class 23.

Imperial Typewriter Company Limited: *See*—
Imperial Typewriter Co Limited.

Independent Pneumatic Tool Company, Aurora, Ill., now by change of name Thor Power Tool Company. Electrically actuated portable screwdrivers. 584,983, Jan. 19; Serial No. 632,672. Class 21.

Industrial Soap Company, St. Louis, Mo. Cleaning composition. 584,850, Jan. 19; Serial No. 636,130, published Oct. 20, 1953. Class 52.

Injection Molders Supply Company: *See*—
Morse, A. Reynolds.

Insecticide Paint Company: *See*—
Peoria Paint Company, Inc.

Instituto de Biologia y Sueroterapia, Madrid, Spain. Pharmaceutical preparation. 584,783, Jan. 19; Serial No. 621,518, published Sept. 22, 1953. Class 18.

International Shoe Company, St. Louis, Mo. Men's, women's and children's shoes. 584,935, Jan. 19; Serial No. 645,572, published Oct. 27, 1953. Class 39.

International Telephone and Telegraph Corporation, New York, N. Y. Telephone switching systems and apparatus therefor, electric wave signal transmission systems and apparatus therefor, etc. 584,815, Jan. 19; Serial No. 631,668, published Oct. 27, 1953. Class 21.

Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y. Bearing alloys, babbitt metals, and white-metal alloys. 584,811, Jan. 19; Serial No. 630,296, published Oct. 27, 1953. Class 14.

Johnson, Stephens and Shinkle Shoe Company, St. Louis, Mo. Shoes. 584,948, Jan. 19; Serial No. 646,447, published Oct. 27, 1953. Class 39.

Joyce, Inc., Pasadena, Calif. Women's shoes. 584,947, Jan. 19; Serial No. 646,399, published Oct. 27, 1953. Class 39.

Junex Products, Chicago, Ill. Antibiotic dietary supplement. 584,829, Jan. 19; Serial No. 633,616, published Sept. 22, 1953. Class 18.

K B Beverage Company, to Bay City Milling & Grocery Co., Bay City, Mich. Malt beverages. 302,119–20, renewed Mar. 28, 1953. O. G. Jan. 19. Class 48.

K B Beverage Company, to Bay City Milling & Grocery Co., Bay City, Mich. Malt beverages. 302,338, renewed Apr. 11, 1953. O. G. Jan. 19. Class 48.

Kahn, Morris, doing business as Camay Hosiery Mills, Newark, N. J. Men's, ladies' and children's socks and stockings. 584,956, Jan. 19; Serial No. 646,874, published Oct. 27, 1953. Class 39.

Karlsruher Parfumerie-und Toiletteseifenfabrik F. Wolff & Sohn, Gesellschaft mit Beschränkter Haftung, Karlsruhe, Baden, Germany. Toilet preparations. 308,864, renewed Dec. 26, 1953. O. G. Jan. 19. Class 51.

Kaufman Knitting Company, Minneapolis, Minn. Ladies', girls', and children's sweaters, skirts, blousers, etc. 584,765, Jan. 19; Serial No. 607,333, published Oct. 6, 1953. Class 39.

Key's Chile Parlor, Jacksonville, Fla. Canned chile concarne and Mexican chile. 306,917, renewed Oct. 3, 1953. O. G. Jan. 19. Class 46.

Keystone Trailer & Equipment Co., Inc., Kansas City, Mo. Truck and trailer bodies. 584,957, Jan. 19; Serial No. 647,196, published Sept. 29, 1953. Class 19.

King, L. C., Manufacturing Co.: *See*—
Phillips, M., & Sons.

Klein, Mrs. Kornreich, Bakery: *See*—
Wilkinson, Charles A.

Kleinert, I. B., Rubber Company, New York, N. Y. Protective covering of sheet material with eye holes for covering the face. 584,914, Jan. 19; Serial No. 644,324, published Oct. 27, 1953. Class 39.

Knudsen Creamery Co. of California, Los Angeles, Calif. Dairy products. 584,767, Jan. 19; Serial No. 611,433, published Oct. 20, 1953. Class 46.

Kohler Co., Kohler, Wis. Electric generating plants. 167,671, May 8, 1923. Republished Jan. 19. Class 21.

Koodin-Lapow Associates, New York, N. Y. News letter or house organ. 584,891, Jan. 19; Serial No. 642,251, published Oct. 13, 1953. Class 38.

Kuhner Packing Company, Muncie, Ind. Cured smoked pork sausage. 584,874, Jan. 19; Serial No. 640,162, published Oct. 27, 1953. Class 46.

Laird & Company, Scobeyville and Eatontown, to Laird & Company, Scobeyville, N. J. Brandy. 310,540, renewed Feb. 27, 1954. O. G. Jan. 19. Class 49.

Laird & Company, Scobeyville and Eatontown, to Laird & Company, Scobeyville, N. J. Brandy. 311,056, renewed Mar. 13, 1954. O. G. Jan. 19. Class 49.

Laird & Company, Scobeyville and Eatontown, to Laird & Company, Scobeyville, N. J. Brandy. 311,177, renewed Mar. 13, 1954. O. G. Jan. 19. Class 49.

Laird & Company, Scobeyville and Eatontown, to Laird & Company, Scobeyville, N. J. Brandy. 311,181, renewed Mar. 13, 1954. O. G. Jan. 19. Class 49.

Laird & Company, Scobeyville and Eatontown, to Laird & Company, Scobeyville, N. J. Brandy. 311,217, renewed Mar. 20, 1954. O. G. Jan. 19. Class 49.

La Pensée, Henry A, Paris, France. Costume jewelry. 584,984, Jan. 19; Serial No. 633,369. Class 28.

Lapres, Theo. J., Inc., Atlantic City, N. J. Almond macaroons. 584,796, Jan. 19; Serial No. 626,209, published Oct. 20, 1953. Class 46.

Le Anne Products: *See*—
Le Anne Toiletries.

Le Anne Toiletries, also trading as Le Anne Products, Syracuse, N. Y. Toiletries. 584,816, Jan. 19; Serial No. 631,742, published Oct. 6, 1953. Class 51.

Lee Polish Mfg. Co. Inc., Brooklyn, N. Y. Chrome polish, furniture polish, polish and cleaner, etc. 584,998, Jan. 19; Serial No. 644,238. Class 4.

Lehrfeld, Manuel S., to R. N. Lehrfeld, Philadelphia, Pa. Medicinal preparation. 304,624, renewed July 11, 1953. O. G. Jan. 19. Class 18.

Lehrfeld, Richard N.: *See*—
Lehrfeld, Manuel S.

Lipper & Mann, Inc., New York, N. Y. Chinaware. 584,845, Jan. 19; Serial No. 635,313, published Oct. 27, 1953. Class 30.

Little Ones Footwear Inc., New York, N. Y. Children's slippers. 584,936, Jan. 19; Serial No. 645,654, published Oct. 27, 1953. Class 39.

London Character Shoes Corporation, New York, N. Y. Shoes. 584,910, Jan. 19; Serial No. 644,125, published Oct. 6, 1953. Class 39.

Lucky Tiger Manufacturing Co., Kansas City, Mo. Hair dressing and conditioner. 584,944, Jan. 19; Serial No. 645,997, published Oct. 6, 1953. Class 51.

Lysen Industries: *See*—
Lysen, Kermit V.

Lysen, Kermit V., doing business as Lysen Industries, Bemidji, Minn. Fish hooks and bait holders. 584,980, Jan. 19; Serial No. 628,415. Class 22.

Magellan Company: *See*—
Davis Bros. Fisheries Co. Inc.

Maguire, Harold V., Jamaica, N. Y. General insurance brokerage. 584,964, Jan. 19; Serial No. 601,635, published Sept. 22, 1953. Class 102.

Mahoney, Frank D., doing business under the firm name and style of Oil Marketing Equipment Co., San Francisco, Calif. Metal hose couplings. 584,991, Jan. 19; Serial No. 638,730. Class 13.

Maier, Hermann R., Andover, N. J. Plastic cookie-cutting molds. 582,019, Nov. 3, 1953. Corrected. O. G. Jan. 19. Class 23.

Manufactures de Senones (Vosges) Société à Responsabilité Limitée, Paris, France. Junior misses', misses', and ladies' coats, dresses, gowns, etc. 584,797, Jan. 19; Serial No. 626,395, published Oct. 6, 1953. Class 39.

Mapor Corporation, New Hyde Park, Long Island, and New York, N. Y., and elsewhere. Cleanser. 584,992, Jan. 19; Serial No. 638,937. Class 52.

Marose Company, Inc., Thomasville, Ga. Popcorn, vegetable oils, and popcorn oil. 584,784, Jan. 19; Serial No. 622,114, published Jan. 20, 1953. Class 46.

Marshall, Meadows & Stewart, Inc., Auburn, N. Y. Women's shoes. 584,750, Jan. 19; Serial No. 550,535, published Oct. 6, 1953. Class 39.

Martin, Ed, Seafood Co.: *See*—
Martin, Edmond, Jr.

Martin, Edmond, Jr., doing business as Ed Martin Seafood Co., Westwego, La. Frozen headless shrimp. 584,959, Jan. 19; Serial No. 647,790, published Oct. 20, 1953. Class 46.

Marx, Louis, & Company: *See*—
Marx, Louis, & Company, Inc.

Marx, Louis, & Company, Inc., also known as Louis Marx & Company, New York, N. Y. Roller skates. 304,705, renewed July 18, 1953. O. G. Jan. 19. Class 22.

Masonry Resurfacing & Construction Co., Inc., Baltimore, Md. Portable coffer-dams. 584,978, Jan. 19; Serial No. 627,205. Class 12.

Mauser Mill Company, The, Treichlers, Pa. High gluten flour. 308,618, renewed Dec. 12, 1953. O. G. Jan. 19. Class 46.

Maxi Corporation, The: *See*—
Six Wheels Incorporated.

McCarthy, Charles M., doing business under the name of "Prof. McCarthy," Miami Beach, Fla. Sun tan oil. 584,835, Jan. 19; Serial No. 633,852, published Oct. 6, 1953. Class 51.

"McCarthy, Prof.": *See*—
McCarthy, Charles M.

Meat Merchandising, Inc., St. Louis, Mo. Periodical. 584,856, Jan. 19; Serial No. 637,317, published Oct. 27, 1953. Class 38.

Melrose Hosiery Mills, Inc., High Point, N. C., assignee of Granite Hosiery Mills. Hosiery. 584,896, Jan. 19; Serial No. 642,635, published Oct. 27, 1953. Class 39.

Metropolitan-Vickers Electrical Company Limited, London, England. Steam turbines and parts thereof; internal combustion turbines and parts thereof, etc. 584,757, Jan. 19; Serial No. 591,790, published Sept. 22, 1953. Class 23.

Metropolitan-Vickers Electrical Company Limited, London, England. Steam turbines and parts thereof; internal combustion turbines and parts thereof, etc. 584,758, Jan. 19; Serial No. 591,792, published Sept. 22, 1953. Class 23.

Meyer, Joseph H., Brothers, to The Richelieu Corporation, New York, N. Y. Perfumery, toilet water, face powder, etc. 308,532, renewed Dec. 5, 1953. O. G. Jan. 19. Class 51.

Miami Margarine Company, The, Cincinnati, Ohio. Vegetable shortening. 584,805, Jan. 19; Serial No. 629,310, published Sept. 29, 1953. Class 46.

Michaels & Co., Inc., Brooklyn, N. Y. Horological instruments. 584,854, Jan. 19; Serial No. 630,990, published Aug. 18, 1953. Class 27.

Michaels & Co., Inc., Brooklyn, N. Y. Jewelry and precious metalware. 584,855, Jan. 19; Serial No. 636,991, published Oct. 27, 1953. Class 28.

Midland Canning Corporation, Billings, Mont., assignor to Big Horn Canning Company, Cowley, Wyo. Canned foods. 584,749, Jan. 19; Serial No. 545,639, published Oct. 20, 1953. Class 46.

Midway Chemical Co., Chicago, Ill., to Boyle-Midway Inc., New York, N. Y. Medicinally treated compounds used as insect and rodent exterminators. 308,505; renewed Dec. 5, 1953. O. G. Jan. 19. Class 6.

Mid-West Tool Company, Grand Rapids, Mich. Stud driving and removing tools. 584,915, Jan. 19; Serial No. 644,331, published Sept. 15, 1953. Class 23.

Milk Farm, The, Dixon, Calif. Gift shop items—namely, earthenware and porcelain dishes, etc. 584,766, Jan. 19; Serial No. 609,182, published Oct. 27, 1953. Class 30.

Millville Manufacturing Company, The, Philadelphia, Pa. Diapers. 584,812, Jan. 19; Serial No. 630,435, published Oct. 27, 1953. Class 39.

Minneapolis Brewing Co. by Minneapolis Brewing Company, Minneapolis, Minn. Beer. 54,643, June 26, 1906. Republished Jan. 19. Class 48.

Minneapolis Brewing Company: *See*—
Minneapolis Brewing Co.

Minneapolis Brewing Company by Minneapolis Brewing Company (1933), Minneapolis, Minn. Malt sirup for food purposes. 226,295–7, Apr. 5, 1927. Republished Jan. 19. Class 46.

Minneapolis Brewing Company (1933): *See*—
Minneapolis Brewing Company.

Monkhouse & Glasscock Limited: *See*—
Monkhouse and Glasscock Limited.

Monkhouse and Glasscock Limited, Bermondsey, London, to Monkhouse & Glasscock Limited, London, England. Food jellies, blanc-mange and custard powders, etc. 93,887, re-renewed Oct. 21, 1953. O. G. Jan. 19. Class 46.

Morse, A. Reynolds, doing business as Injection Molders Supply Company, Cleveland, Ohio. Injection molding machine feeders. 584,830, Jan. 19; Serial No. 633,427, published Sept. 15, 1953. Class 23.

Mullard Limited, London, England. Radio and television receivers, communication, industrial, radio and television transmitting and receiving tubes, etc. 584,975, Jan. 19; Serial No. 624,416. Class 21.

N. V. Ontwikkelingmaatschappij "Polynorm," Amsterdam and Amersfoort, Netherlands. Pre-fabricated buildings. 584,793, Jan. 19; Serial No. 624,845, published Oct. 20, 1953. Class 12.

National Bellas Hess, Inc., North Kansas City, Mo. Girls' shoes, slippers, loafers. 584,807, Jan. 19; Serial No. 629,451, published Oct. 27, 1953. Class 39.

National Fisheries Institute, Inc., Wilmington, Del., and Washington, D. C. Trade association services rendered to its members. 584,962, Jan. 19; Serial No. 586,872, published Oct. 27, 1953. Class 100.

National Safe Drivers Association, Washington, D. C. Stimulating and maintaining interest in the reduction of pedestrian and traffic accidents. 585,000, Jan. 19; Serial No. 631,389. Class 100.

National Silver Company, New York, N. Y. China dinnerware. 584,844, Jan. 19; Serial No. 635,231, published Aug. 18, 1953. Class 30.

National Transparent Plastics Company, Springfield, Mass. Covers made of transparent plastic material for women's shoes and boots. 584,833, Jan. 19; Serial No. 633,785, published Oct. 27, 1953. Class 39.

Naxon Utilities Corporation, Chicago, Ill. Electric griddles, electric frying pans, electric deep fat fryers. 584,762, Jan. 19; Serial No. 601,637, published Oct. 27, 1953. Class 21.

Nestlé Company, Inc., The: *See*—
Nestlé's Milk Products, Inc.

Nestlé's Milk Products, Inc., to The Nestlé Company, Inc., New York, N. Y. Evaporated and condensed milk. 311,529, renewed Mar. 27, 1954. O. G. Jan. 19. Class 46.

New England Confectionery Company, Cambridge, Mass. Candy. 307,039, renewed Oct. 10, 1953. O. G. Jan. 19. Class 46.

New England Grain Products Co., Yarmouth, Maine. Poultry, dairy, and stock feeds. 584,761, Jan. 19; Serial No. 600,608, published Oct. 20, 1953. Class 46.

Niggl, A., & C., Imperia-Oneglia, Italy. Face powders, talcum powders, bath salts, etc. 584,763, Jan. 19; Serial No. 601,638, published Oct. 6, 1953. Class 51.

Nippon Shono Kabushiki-Kaisha, Kobe, Japan. Camphor and camphor oil. 307,005, renewed Oct. 10, 1953. O. G. Jan. 19. Class 18.

Oakes Consumer Catalogs, Chicago, Ill. Fishing tackle catalogue. 584,904, Jan. 19; Serial No. 643,973, published Oct. 13, 1953. Class 38.

Oakite Products, Inc., New York, N. Y. General cleansing and washing compound. 584,813, Jan. 19; Serial No. 630,607, published Oct. 20, 1953. Class 52.

Oil Marketing Equipment Co.: *See*—
Mahoney, Frank D.

Palmeter's Limited, Kentville, Nova Scotia, Canada. China tableware. 584,893, Jan. 19; Serial No. 642,366, published Aug. 18, 1953. Class 30.

Parfumerie Roger & Gallet, Societe Anonyme, doing business as Roger & Gallet, Paris, France, to Roger & Gallet, New York, N. Y. Toilet soaps. 307,019, renewed Oct. 10, 1953. O. G. Jan. 19. Class 52.

Parfumerie Roger et Gallet, Societe Anonyme, doing business as Roger & Gallet, Paris, France, to Roger & Gallet, New York, N. Y. Pastes and powders for beautifying and preserving the teeth, skin, etc., and perfumery. 307,405, renewed Oct. 24, 1953. O. G. Jan. 19. Class 51.

Pemco Corporation: *See*—
Porcelain Enamel & Mfg. Co. of Baltimore, The.
Porcelain Enamel and Manufacturing Company of Baltimore, The.

Pemco Corporation, Baltimore, Md. Enamel frits. 411,278, Jan. 9, 1945. Republished Jan. 19, 1954. Class 1.

Peoria Paint Company, Inc., Peoria, Ill., assignee of Insecticide Paint Company. Insecticide paint. 584,969, Jan. 19; Serial No. 607,330. Class 16.

Permutit Company, The, New York, N. Y. Water purifying and treating materials. 94,825, re-renewed Jan. 6, 1954. O. G. Jan. 19. Class 6.

Pets Meat Packing Company, Rush Springs, Okla. Dog and cat food. 584,787, Jan. 19; Serial No. 623,429, published May 12, 1953. Class 46.

Pfeiffer, S., Manufacturing Company, St. Louis, Mo. Hair and scalp stimulator preparation, after shaving balm, and shampoo. 338,137. Sept. 1, 1936. Republished Jan. 19. Classes 51 and 52.

Pfeiffer, S., Manufacturing Company, St. Louis, Mo. Cough syrup. 418,989, Jan. 15, 1946. Republished Jan. 19. Class 18.

Phillips & Benjamin Company, The, Boston, Mass., by Wernet Dental Mfg. Co., Inc., Jersey City, N. J. Artificial denture cleansers. 310,067, Feb. 13, 1934. Republished Jan. 19. Class 51.

Phillips, M., & Sons, New York, N. Y., to L. C. King Manufacturing Co., Bristol, Tenn. Dress, negligee, and work shirts, nightshirts, etc. 95,010, re-renewed Jan .20, 1954. O. G. Jan. 19. Class 39.

"Pilotlab," Evans City, Pa. Spices. 584,775, Jan. 19; Serial No. 615,245, published Oct. 13, 1953. Class 46.

Plata American Trading Inc., New York, N. Y. Pure refined lard, prime steam lard, rendered pork fat, etc. 584,779, Jan. 19; Serial No. 618,125, published Oct. 20, 1953. Class 46.

Playtime Products, Inc., Warsaw, Ind. Doll carriages. 584,999, Jan. 19; Serial No. 644,687. Class 22.

Plummer, Roland E., Huntington, N. Y. Men's, women's and children's shoes and shoe soles. 584,937, Jan. 19; Serial No. 645,666, published Oct. 27, 1953. Class 39.

Porcelain Enamel & Mfg. Co., The: *See*—
Porcelain Enamel & Mfg. Co. of Baltimore, The.

Porcelain Enamel and Manufacturing Company, The: *See*—
Porcelain Enamel and Manufacturing Company of Baltimore, The.

Porcelain Enamel & Mfg. Co. of Baltimore, The, doing business as The Porcelain Enamel & Mfg. Co., by Pemco Corporation, Baltimore, Md. Fireproof inorganic coating composition. 409,308, Oct. 3, 1944. Republished Jan. 19. Class 16.

Porcelain Enamel and Manufacturing Company of Baltimore, The, by Pemco Corporation, Baltimore, Md. Vitreous and porcelain enamels. 146,847, Sept. 20, 1921. Republished Jan. 19. Class 12.

Porcelain Enamel and Manufacturing Company of Baltimore, The, by Pemco Corporation, Baltimore, Md. Enamel frits, oxides and opacifiers. 349,261, Aug. 24, 1937. Republished Jan. 19. Class 1.

Porcelain Enamel and Manufacturing Company of Baltimore, The, doing business as The Porcelain Enamel and Manufacturing Company, by Pemco Corporation, Baltimore, Md. Porcelain enamel frits. 382,829, Nov. 12, 1940. Republished Jan. 19. Class 1.

Prince Macaroni Manufacturing Company, also doing business under the name of Roman Prince Macaroni Co., Lowell, Mass. Alimentary paste products. 584,759, Jan. 19; Serial No. 593,686, published Oct. 20, 1953. Class 46.

Products Exchange Company, Inc., New York, N. Y. Horological instruments. 584,857, Jan. 19; Serial No. 637,502, published Aug. 18, 1953. Class 27.

Prom Record Co., Newark, N. J. Mechanically grooved phonograph records. 584,946, Jan. 19; Serial No. 646,232, published Oct. 20, 1953. Class 36.

Quirk, Barbara T., West Hartford, Conn. Small art symbols. 584,821, Jan. 19; Serial No. 632,110, published Oct. 20, 1953. Class 50.

Radium Emanation Corporation, The, New York, N. Y. Secondary filters capable of filtering off the harmful rays generated by the radium or radon component present in radium or radon-containing appliances. 363,743, Jan. 3, 1939. Republished Jan. 19. Class 44.

Randolph Manufacturing Company, Incorporated, Randolph, Mass. Shoes and sandals. 584,777, Jan. 19; Serial No. 617,377, published Oct. 27, 1953. Class 39.

Rayette, Inc., St. Paul, Minn. Hair lotions and hair cremes. 584,863, Jan. 19; Serial No. 638,270, published Oct. 20, 1953. Class 51.

Red Spot Paint & Varnish Co., Inc., Evansville, Ind. Paste, ready mixed paints and paint enamels, etc. 207,347, Dec. 29, 1925. Republished Jan. 19. Class 16.

Red Spot Paint & Varnish Co., Inc., Evansville, Ind. Paste paint and liquid paint. 221,229, Nov 23, 1926. Republished Jan. 19. Class 16.

Red Spot Paint & Varnish Co., Inc., Evansville, Ind. Paint products. 377,757, May 14, 1940. Republished Jan. 19. Class 16.

Red Spot Paint & Varnish Co., Inc., Evansville, Ind. Ready mixed paint. 397,234, Aug. 25, 1942. Republished Jan. 19. Class 16.

Red Spot Paint & Varnish Co., Inc., Evansville, Ind. Washable interior wall paint. 404,102, Nov. 2, 1943. Republished Jan. 19. Class 16.

Red Spot Paint & Varnish Co., Inc., Evansville, Ind. Quick drying plastic material in the nature of paint. 415,669, Aug. 14, 1945. Republished Jan. 19. Class 16.

Register and Tribune Company, The, Des Moines, Iowa. Newspaper and magazine feature. 584,907, Jan. 19; Serial No. 644,064, published Oct. 13, 1953. Class 38.

Reimann Industries, Inc., Minneapolis, Minn. Nonalcoholic maltless beverages. 584,760, Jan. 19; Serial No. 595,471, published Oct. 13, 1953. Class 45.

Richelieu Corporation, The: *See*—
Meyer, Joseph H., Brothers.

Ricky Craft Originals, Philadelphia, Pa. Infants' and toddlers' coats and coat sets. 584,908, Jan. 19; Serial No. 644,066, published Oct. 27, 1953. Class 39.

Robinson, J. W., Co., Los Angeles, Calif. Women's ready-to-wear garments and accessories. 584,772, Jan. 19; Serial No. 613,346, published Oct. 27, 1953. Class 39.

Rock of Ages Corporation: *See*—
Boutwell, Milne & Varnum Co.

Rock Wool Insulation Co., The: *See*—
Gaines, Reginald R.

Roger & Gallet: *See*—
Parfumerie Roger & Gallet, Societe Anonyme.
Parfumerie Roger et Gallet, Societe Anonyme.

Roman Prince Macaroni Co.: *See*—
Prince Macaroni Manufacturing Company.

Rotary Hoes Limited, East Horndon, Essex, England. Ploughs, cultivators, diggers, etc. 584,989, Jan. 19. Serial No. 637,088. Class 23.

Rubinstein, Helena, Inc., New York, N. Y. Perfume and eau de parfum. 584,925, Jan. 19; Serial No. 644,872, published Oct. 6, 1953. Class 51.

Russell Manufacturing Company, The, Middletown, Conn. Brake-lining. 95,352, re-renewed Feb. 10, 1954. O. G. Jan. 19. Class 35.

Russell Manufacturing Company, The, Middletown, Conn. Molded, semimolded, and woven brake linings. 308,362, renewed Dec. 5, 1953. O. G. Jan. 19. Class 35.

Safety Box Toe Company, Boston, Mass. Steel box toes for shoes. 584,769, Jan. 19; Serial No. 612,474, published Oct. 27, 1953. Class 39.

Saks & Company, New York, N. Y. Women's, misses' and children's shoes and slippers. 584,938, Jan. 19; Serial No. 645,674, published Oct. 27, 1953. Class 39.

Sanders, George S., assignor to Sanders & Steinberg, New York, N. Y. Face make-up ensemble. 584,814, Jan. 19; Serial No. 630,963, published Oct. 6, 1953. Class 51.

Sanders & Steinberg, assignee: *See*—
Sanders, George S.

Sargeant Acnoid Pharmaceutical Co., Inc., East Orange, N. J., to Sargeant Acnoid Pharmaceutical Co., Inc., Highland Mills, N. Y. Bath salts, bleaching compounds. 308,873, renewed Dec. 26, 1953. O. G. Jan. 19. Class 51.

Saticoy Lemon Association, Saticoy, Calif. Fresh citrus fruits. 584,923, Jan. 19; Serial No. 644,791, published Oct. 20, 1953. Class 46.

Saticoy Lemon Association, Saticoy, Calif. Fresh citrus fruits. 584,924, Jan. 19; Serial No. 644,793, published Oct. 20, 1953. Class 46.

Schmidtman Company: *See*—
Schmidtman's, Theo., Sons Company.

Schmidtman's, Theo., Sons Company, to Schmidtman Company, Manitowoc, Wis. Tablets, composition-books, notebooks, etc. 41,511, re-renewed Nov. 24, 1953. O. G. Jan. 19. Class 37.

Schofield, E. L., Incorporated, Rockford, Ill. Fan equipped, fluid heated type, air heaters and parts therefor. 584,973, Jan. 19; Serial No. 623,211. Class 34.

Schofield, E. L., Incorporated, Rockford, Ill. Fan equipped, fluid heated type, air heaters and parts therefor. 584,974, Jan. 19; Serial No. 623,213. Class 34.

Schuckl & Co. Inc., sometimes doing business as Sunnyvale Packing Company, Sunnyvale, Calif. Canned fruits and canned vegetables. 584,882, Jan. 19; Serial No. 641,332, published Oct. 20, 1953. Class 46.

Schumacher, H. H., doing business as B-Z-B Honey Company, Alhambra, Calif. Honey. 311,152, renewed Mar. 13, 1954. O. G. Jan. 19. Class 46.

Schwartz Candies Inc., New York, N. Y. Candy. 584,930, Jan. 19; Serial No. 645,264, published Sept. 29, 1953. Class 46.

Searle, G. D., & Co., Skokie, Ill. Preparation for the treatment of endocrine dysfunction. 584,836, Jan. 19; Serial No. 634,006, published Oct. 20, 1953. Class 18.

Sel-Set Company, Salem and West Salem, Oreg. Electrical controller apparatus. 584,768, Jan. 19; Serial No. 612,358, published Oct. 20, 1953. Class 21.

Semple, Mildred, Industries: *See*—
Semple, Mildred P.

Semple, Mildred P., doing business as Mildred Semple Industries, Wollaston, Mass. Thin, plastic sheet material, sold cut to size, for use in the mixing and rolling of pie dough and the like. 584,819, Jan. 19; Serial No. 631,950, published Oct. 20, 1953. Class 50.

Seven-Eleven Records, Inc., Beverly Hills, Calif. Mechanically grooved phonograph records. 584,932, Jan. 19; Serial No. 645,436, published Oct. 20, 1953. Class 36.

Shainberg, Sam, Dry Goods Company, Memphis, Tenn. Articles of wearing apparel, work pants, work shirts, overalls, etc. 584,888, Jan. 19; Serial No. 641,976, published Oct. 27, 1953. Class 39.

Shasta Water Company, The, San Francisco, Calif. Sparkling water, and non-alcoholic, maltless beverages. 584,883, Jan. 19; Serial No. 641,337, published Oct. 6, 1953. Class 45.

Sherman, Robert M., New York, N. Y. Calender chart operating in the manner of a slide rule. 584,970, Jan. 19; Serial No. 613,655. Class 26.

Shiloh Manufacturing Company: *See*—
Strickler, Claude E., Jr.

Shoe Corporation of America, Columbus, Ohio. Men's, women's and children's bowling shoes, football shoes, baseball shoes, etc. 584,809, Jan. 19; Serial No. 629,960, published Oct. 6, 1953. Class 39.

Silcrest Company, The, Wausau, Wis. Millwork and particularly doors and door frames, etc. 584,794, Jan. 19; Serial No. 625,080, published Oct. 6, 1953. Class 12.

Simmons, Pearl M., doing business as Ardoll Products, Chicago, Ill. Perfume oil and sachet powder. 584,792, Jan. 19; Serial No. 624,720, published Oct. 20, 1953. Class 51.

Simplex Shoe Manufacturing Company, Milwaukee, Wis. Shoes. 584,853, Jan. 19; Serial No. 636,864, published Oct. 27, 1953. Class 39.

Simpson Spring Company, Easton, to Simpson Spring Company, South Easton, Mass. Carbonated flavored non-alcoholic drinks. 93,765, re-renewed Oct. 14, 1953. O. G. Jan. 19. Class 45.

Six Wheels Incorporated, by The Maxi Corporation, Los Angeles, Calif. Automobile trucks. 209,196, Feb. 16, 1926. Republished Jan. 19. Class 19.

Skin Research, Inc., New York, N. Y. Hand lotion and skin cream. 584,878, Jan. 19; Serial No. 640,871, published Oct. 20, 1953. Class 51.

"Smith-Dorsey": *See*—
Wander Company, The.

Smith, R. Edward, doing business as Cal Tek Industries, Los Angeles, Calif. Chemical transparent coolant and lubricant. 584,866, Jan. 19; Serial No. 639,197, published Sept. 22, 1953. Class 15.

Sonotone Corporation, Elmsford, N. Y. Hearing aids and acoustic elements and accessories thereof. 584,756, Jan. 19; Serial No. 583,621, published July 8, 1952. Class 44.

Sorensen, John R., & Company Limited, Manchester, England. Emulsions of fatty acid esters in water being for use as a substitute for cream. 584,822, Jan. 19; Serial No. 632,276, published Oct. 27, 1953. Class 46.

Spalding, A. G., & Bros, Inc.: *See*—
Victor Sporting Goods Company.

Spratt's Patent (America) Limited, London, England and Newark, N. J., to Spratt's Patent (America) Limited, London, England. Food preparation. 95,956–7, re-renewed Mar. 24, 1954. O. G. Jan. 19. Class 46.

Stanley Home Products, Inc., Westfield, Mass. Cosmetics. 584,864, Jan. 19; Serial No. 638,556, published July 28, 1953. Class 51.

Stitzel-Weller Distillery, Louisville, Ky. Whiskies. 584,851, Jan. 19; Serial No. 636,259, published Oct. 13, 1953. Class 49.

Stone-Tarlow Co., Inc., Brockton, Mass. Men's shoes. 584,859, Jan. 19; Serial No. 637,729, published Oct. 6, 1953. Class 39.

Storkline Furniture Corporation, Chicago, Ill. Baby strollers, baby carriages, baby coaches, etc. 584,961, Jan. 19; Serial No. 651,422, published Oct. 27, 1953. Class 19.

Strickler, Claude E., Jr., doing business as Shiloh Manufacturing Company, York, Pa. Waterless hand cleansing preparation. 584,846, Jan. 19; Serial No. 635,331, published Oct. 20, 1953. Class 52.

Sunny Sally Vegetables Growers, Los Angeles, Calif. Packaged fresh vegetables. 584,755, Jan. 19; Serial No. 569,905, published Mar. 18, 1952. Class 46.

Sunnyvale Packing Company: *See*—
Schuckl & Co. Inc.

Supplee-Biddle-Steltz Company, Philadelphia, Pa. Catalogues. 584,940, Jan. 19; Serial No. 645,744, published Oct. 13, 1953. Class 38.

Swift & Company: *See*—
Clarinda Poultry, Butter & Egg Co.

Talley, Dolen O., doing business as Bel-Toe Foundation Company, Houston, Tex. Reaming of foundation holes for foundation footings. 584,966, Jan. 19; Serial No. 620,297, published Oct. 27, 1953. Class 103.

Taylor, Thomas, & Sons, Inc., Hudson, Mass. Woven and braided elastic fabric strips, tapes, trimmings, etc. 584,778, Jan. 19; Serial No. 617,736, published Oct. 27, 1953. Class 40.

Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Carbon and alloy steels. 307,759, renewed Oct. 31, 1953. O. G. Jan. 19. Class 14.

Technical Porcelain & Chinaware Co.: *See*—
Technical Porcelain and Tile Company.

Technical Porcelain and Tile Company, by Technical Porcelain & Chinaware Co., El Cerrito, Calif. Vitreous porcelain bathroom and kitchen wall fixtures. 346,921, June 15, 1937. Republished Jan. 19. Class 13.

Tenderich, Gertrude S., assignee: *See*—
Voss, Joseph A.

Terminal Metal Products Corporation, Brooklyn, N. Y. Hand trucks. 584,958, Jan. 19; Serial No. 647,666, published Sept. 29, 1953. Class 19.

Texas Pharmacal Company, San Antonio, Tex. Protective cream. 584,997, Jan. 19; Serial No. 641,752. Class 51.

Thor Power Tool Company: *See*—
Independent Pneumatic Tool Company.

Transformer Technicians Inc., Chicago, Ill. Electric transformers and chokes. 584,860, Jan. 19; Serial No. 637,734, published Oct. 20, 1953. Class 21.

Trudeau Candies, Inc., St. Paul, Minn. Candy. 584,773, Jan. 19; Serial No. 614,178, published Oct. 20, 1953. Class 46.

Ulmann, A. E., & Associates, Ltd., New York, N. Y. Welding rods and welding alloys. 584,795, Jan. 19; Serial No. 625,836, published Oct. 27, 1953. Class 14.

Van Brode Milling Co., Inc., Clinton, Mass. Shaving lather. 584,884, Jan. 19; Serial No. 641,354, published Oct. 20, 1953. Class 51.

Vaughan Mfg. Co., Chicago, Ill. Can opener. 584,834, Jan. 19; Serial No. 633,824, published Sept. 15, 1953. Class 23.

Venus Chemical Company, Inc., New York, N. Y. Resinous surfacing material for rendering floors conductive of electricity. 584,920, Jan. 19; Serial No. 644,579, published Oct. 20, 1953. Class 21.

Victor Sporting Goods Company, Springfield, to A. G. Spalding & Bros. Inc., Chicopee, Mass. Implements, apparatus, goods, and clothing used in athletic games and sports, etc. 93,941, renewed Oct. 21, 1953. O. G. Jan. 19. Class 22.

Vita-Zahnfabrik H. Rauter o. H. G., Essen, Germany. Artificial teeth. 584,880, Jan. 19; Serial No. 641,254, published Oct. 27, 1953. Class 44.

Vix Laboratories, Inc., New York, N. Y. Facial cream. 584,820, Jan. 19; Serial No. 631,954, published Oct. 6, 1953. Class 51.

Voss, Joseph A., doing business as The Voss Patents and Sales Company, assignor to G. S. Tenderich, Denver, Colo. Gravity fed and dip type liquid brushes or felt pad applicators. 584,752, Jan. 19; Serial No. 568,696, published Oct. 27, 1953. Class 29.

Voss Patents and Sales Company, The: *See*—
Voss, Joseph A.

Walla Walla Canning Company, Walla Walla, Wash. Canned fruits and vegetables, and canned tomato juice. 311,418, renewed Mar. 20, 1954. O. G. Jan. 19. Class 46.

Walter, Louis, & Co., Inc., Kansas City, Mo. Ladies' coats and suits. 584,933, Jan. 19; Serial No. 645,454, published Oct. 27, 1953. Class 39.

Wander Company, The, doing business under the name "Smith-Dorsey," Chicago, Ill. Antacid preparation. 584,837, Jan. 19; Serial No. 634,064, published Sept. 22, 1953. Class 18.

Waterman, L. E., Co., New York, N. Y., to Waterman Pen Company, Inc., Seymour, Conn. Ink. 93,785, re-renewed Oct. 14, 1953. O. G. Jan. 19. Class 11.

Waterman Pen Company, Inc.: *See*—
Waterman, L. E. Co.

Wells Badger Corporation: *See*—
Badger Carton Company.

Wen-Mac Corporation, Beverly Hills, Calif. Internal combustion engines, and parts therefor, for use in toy model vehicles. 584,870, Jan. 19; Serial No. 639,353, published Oct. 20, 1953. Class 22.

Wernet Dental Mfg. Co., Inc.: *See*—
Phillips & Benjamin Company, The.

Westex Boot and Shoe Company, Inc., Wichita Falls, Tex. Particular type of boot toes. 584,803, Jan. 19; Serial No. 627,611, published Oct. 6, 1953. Class 39.

Westinghouse Electric Corporation, East Pittsburgh, Pa., and East Springfield, Ohio. Electric fans. 584,862, Jan. 19; Serial No. 638,172, published Oct. 20, 1953. Class 21.

Wheeler The Dirt Farmer, Seattle, Wash. Growing earth. 584,892, Jan. 19; Serial No. 642,333, published Oct. 20, 1953. Class 1.

White, Clifford W., Louisville, Ky. Cooked chicken and prepared dinners. 584,776, Jan. 19; Serial No. 615,301, published Oct. 20, 1953. Class 46.

Whitley Tailleurs Inc., New York, N. Y. Ladies' and misses' coats. 584,934, Jan. 19; Serial No. 645,455, published Oct. 27, 1953. Class 39.

Wild Acres Turkey Farm: *See*—
Adams, Frederick C.

Wilkinson, Charles A., doing business as Mrs. Kornreich Klein Bakery, Milwaukee, Wis. Cookies. 584,771, Jan. 19; Serial No. 613,100, published Oct. 20, 1953. Class 46.

Windsor-Lloyd Products, Inc., doing business as Booster Chemical & Engineering Co., Baltimore, Md., and Wilmington, Del., to Windsor-Lloyd Products, Inc., Philadelphia, Pa. Adhesive running board covering cement. 310,500, renewed Feb. 27, 1954. O. G. Jan. 19. Class 5.

Wizard, Inc., Chicago, Ill., to Boyle-Midway Inc., New York, N. Y. Top dressing and metal polish. 308,480, renewed Dec. 5, 1953. O. G. Jan. 19. Class 4.

Wollfärberei Bürglen Dr. Jakob Cunz Aktiengesellschaft, Bürglen, Thurgau, Switzerland. Knitted articles of clothing. 584,848, Jan. 19; Serial No. 635,863, published Oct. 27, 1953. Class 39.

Wood-Treating Corporation, Cleveland, Ohio. Frangible capsules to be inserted in spike holes of railroad ties. 584,877, Jan. 19; Serial No. 640,828, published Nov. 10, 1953. Class 12.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Aluminum cleaning and brightening compound. 584,905, Jan. 19; Serial No. 643,993, published Oct. 20, 1953. Class 52.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Laundry washing compound. 584,916, Jan. 19; Serial No. 644,370, published Oct. 20, 1953. Class 52.

Zildjian, Avedis Co., Quincy, Mass. Cymbals. 584,841, Jan. 19; Serial No. 635,077, published Oct. 6, 1953. Class 36.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Enamel frits. Pemco Corporation. 411,278, Jan. 9, 1945. Republished Jan. 19.
Enamel frits, oxides and opacifiers. The Porcelain Enamel and Manufacturing Company of Baltimore. 349,261, Aug. 24, 1937. Republished Jan. 19.
Enamel frits, Porcelain. The Porcelain Enamel and Manufacturing Company of Baltimore. 382,829, Nov. 12, 1940. Republished Jan. 19.
Growing earth. Wheeler The Dirt Farmer. 584,892, Jan. 19; Serial No. 642,333, published Oct. 20, 1953.
Leather. F. C. Donovan Inc. 584,849, Jan. 19; Serial No. 636,123, published Oct. 20, 1953.
Leather and skins in the piece, Tanned and untanned and dressed and undressed. Barrow, Henburn & Gale Limited. 584,782, Jan. 19; Serial No. 621,127, published Oct. 20, 1953.
Seeds, Flower. Germain's, Inc. 584,798, Jan. 19; Serial No. 626,507, published Oct. 20, 1953.

CLASS 2

Compacts. Coro, Inc. 422,482, July 23, 1946. Republished Jan. 19.
Necklaces and bracelets, finger rings, etc. Cohn & Rosenberger, Inc. 349,268, Aug. 24, 1937. Republished Jan. 19.
Necklaces, Pearl, pearl earrings, pearl bracelets, etc. Coro, Inc. 425,516, Nov. 26, 1946. Republished Jan. 19.

CLASS 3

Luggage and leather goods. Finnigans, Limited. 584,971, Jan. 19; Serial No. 618,159.

CLASS 4

Polish, Chrome, furniture polish, polish and cleaner, etc. Lee Polish Mfg. Co. Inc. 584,998, Jan. 19; Serial No. 644,238.
Top dressing and metal polish. Wizard, Inc. 308,480, renewed Dec. 5, 1953. O. G. Jan. 19.

CLASS 5

Adhesive running board covering cement. Windsor-Lloyd Products, Inc. 310,500, renewed Feb. 27, 1954. O. G. Jan. 19.

CLASS 6

Chemical lime. Ash Grove Lime & Portland Cement Company. 309,395, renewed Jan. 9, 1954. O. G. Jan. 19.
Composition for the surface treatment of uncured rubber stocks to remove stickiness. Aurora Products Corporation. 584,987, Jan. 19; Serial No. 634,881.
Medicinally treated compounds used as insect and rodent exterminators. Midway Chemical Co. 308,505, renewed Dec. 5, 1953. O. G. Jan. 19.
Synthetic plastic materials. Farbenfabriken Bayer. 584,842, Jan. 19; Serial No. 635,129, published Oct. 20, 1953.
Synthetic resinous materials. American Plastics Corporation. 584,943, Jan. 19; Serial No. 645,942, published Oct. 20, 1953.
Water purifying and treating materials. The Permutit Company. 94,825, re-renewed Jan. 6, 1954. O. G. Jan. 19.

CLASS 8

Necklaces and bracelets, finger rings, etc. Cohn & Rosenberger, Inc. 349,268, Aug. 24, 1937. Republished Jan. 19.
Necklaces, Pearl, pearl earrings, pearl bracelets, etc. Coro, Inc. 425,516, Nov. 26, 1946. Republished Jan. 19.

CLASS 9

Fire alarms of a type containing an explosive element and a firing pin. Frank Industries, Inc. 584,922, Jan. 19; Serial No. 644,669, published Oct. 27, 1953.

CLASS 10

Soil conditioners. California Spray-Chemical Corporation. 584,950, Jan. 19; Serial No. 646,599, published Oct. 27, 1953.

CLASS 11

Ink. L. E. Waterman Co. 93,785, re-renewed Oct. 14, 1953. O. G. Jan. 19.

CLASS 12

Building blocks, Concrete. The W. E. Dunn Manufacturing Company. 584,770, Jan. 19; Serial No. 612,598, published Dec. 9, 1952.
Building insulation. R. R. Gaines. 584,828, Jan. 19; Serial No. 633,577, published Oct. 20, 1953.
Cinder or concrete blocks. Colorado Springs Cast Stone Company. 584,988, Jan. 19; Serial No. 636,969.
Coffer-dams, Portable. Masonry Resurfacing & Construction Co., Inc. 584,978, Jan. 19; Serial No. 627,205.

Doors, Building. Alumiclad Doors, Inc. 584,843, Jan. 19; Serial No. 635,212, published Oct. 20, 1953.
Floor tile, Interlocking rubber. L. Barry. 584,881, Jan. 19; Serial No. 641,264, published Oct. 20, 1953.
Frangible capsules to be inserted in spike holes of railroad ties. Wood-Treating Corporation. 584,877, Jan. 19; Serial No. 640,828, published Nov. 10, 1953.
Granite blocks and monumental stones. Boutwell, Milne & Varnum Co. 95,516, re-renewed Feb. 24, 1954. O. G. Jan. 19.
Ground, hard bitumen used as insulating material. American Gilsonite Company. 584,873, Jan. 19; Serial No. 640,032, published Oct. 20, 1953.
Millwork and particularly doors and door frames, etc. The Silcrest Company. 584,794, Jan. 19; Serial No. 625,080, published Oct. 6, 1953.
Pre-fabricated buildings. N. V. Ontwikkelingmaatschappij "Polynorm." 584,793, Jan. 19; Serial No. 624,845, published Oct. 20, 1953.
Putty-like, non-metallic composition. Eutectic Welding Alloys Corporation. 584,847, Jan. 19; Serial No. 635,356, published Oct. 20, 1953.
Vitreous and porcelain enamels. The Porcelain Enamel and Manufacturing Company of Baltimore. 146,847, Sept. 20, 1921. Republished Jan. 19.

CLASS 13

Bathroom and kitchen wall fixtures, Vitreous porcelain. Technical Porcelain and Tile Company. 346,921, June 15, 1937. Republished Jan. 19.
Expansion-shields, screws, expansion-bolts, etc. Diamond Expansion Bolt Co. 95,999, re-renewed Mar. 31, 1954. O. G. Jan. 19.
Metal hose couplings. F. D. Mahoney. 584,991, Jan. 19; Serial No. 638,730.

CLASS 14

Bearing alloys, babbitt metals, and white-metal alloys. Jackson-Wheeler Metals Service, Inc. 584,811, Jan. 19; Serial No. 630,296, published Oct. 27, 1953.
Metal castings. Econocast, Inc. 584,800–1, Jan. 19; Serial Nos. 627,119–20, published Oct. 27, 1953.
Metal castings. Globe Ring Co. 584,786, Jan. 19; Serial No. 622,650, published Oct. 27, 1953.
Steels, Carbon and alloy. Taylor-Wharton Iron and Steel Company. 367,759, renewed Oct. 31, 1953. O. G. Jan. 19.
Welding rods and welding alloys. A. E. Ulmann & Associates, Ltd. 584,795, Jan. 19; Serial No. 625,836, published Oct. 27, 1953.

CLASS 15

Coolant and lubricant, Chemical transparent. R. E. Smith. 584,866, Jan. 19; Serial No. 639,197, published Sept. 22, 1953.

CLASS 16

Coating composition, Fireproof inorganic. The Porcelain Enamel & Mfg. Co. of Baltimore. 409,308, Oct. 3, 1944. Republished Jan. 19.
Paint, Insecticide. Peoria Paint Company, Inc. 584,969, Jan. 19; Serial No. 607,330.
Paint, Paste, and liquid paint. Red Spot Paint & Varnish Co., Inc. 221,229, Nov. 23, 1926. Republished Jan. 19.
Paint products. Red Spot Paint & Varnish Co., Inc. 377,757, May 14, 1940. Republished Jan. 19.
Paint products, Ready-mixed. Alumi-Gard Company. 584,972, Jan. 19; Serial No. 622,572.
Paint, Ready mixed. Red Spot Paint & Varnish Co., Inc. 397,234, Aug. 25, 1942. Republished Jan. 19.
Paint, Washable interior wall. Red Spot Paint & Varnish Co., Inc. 404,102, Nov. 2, 1943. Republished Jan. 19.
Paints and paint enamels, Paste, ready mixed, etc. Red Spot Paint & Varnish Co., Inc. 207,347, Dec. 29, 1925. Republished Jan. 19.
Plastic material in the nature of paint, Quick drying. Red Spot Paint & Varnish Co., Inc. 415,669, Aug. 14, 1945. Republished Jan. 19.

CLASS 18

Antacid preparation. The Wander Company. 584,837, Jan. 19; Serial No. 634,064, published Sept. 22, 1953.
Antibiotic-containing veterinary composition. Commercial Solvents Corporation. 584,810, Jan. 19; Serial No. 630,121, published June 23, 1953.
Antibiotic dietary supplement. Junex Products. 584,829, Jan. 19; Serial No. 633,616, published Sept. 22, 1953.
Antirheumatic and antipyretic compound. Abbott Laboratories. 310,989, renewed Mar. 13, 1954. O. G. Jan. 19.
Camphor and camphor oil. Nippon Shono Kabushiki-Kaisha. 307,005, renewed Oct. 10, 1953. O. G. Jan. 19.
Cough syrup. S. Pfeiffer Manufacturing Company. 418,989, Jan. 15, 1946. Republished Jan. 19.

Feed supplement. Abbott Laboratories. 584,838, Jan. 19; Serial No. 634,179, published Oct. 20, 1953.
Medicated preparation. M. Hirschman. 584,839, Jan. 19; Serial No. 634,410, published Sept. 22, 1953.
Medicinal preparation. M. S. Lehrfeld. 304,624, renewed July 11, 1953. O. G. Jan. 19.
Pharmaceutical preparation. Instituto de Biologia y Sueroterapia. 584,783, Jan. 19; Serial No. 621,518, published Sept. 22, 1953.
Preparation for the treatment of endocrine dysfunction. G. D. Searle & Co. 584,836, Jan. 19; Serial No. 634,006, published Oct. 20, 1953.
Remedies for the cure or alleviation of croup, etc. The Abbott Alkaloidal Co. 42,124, re-renewed Feb. 23, 1954. O. G. Jan. 19.

CLASS 19

Railway friction draft gears. Cardwell Westinghouse Company. 584,868, Jan. 19; Serial No. 639,315, published Aug. 11, 1953.
Strollers, Baby, baby carriages, baby coaches, etc. Storkline Furniture Corporation. 584,961, Jan. 19; Serial No. 651,422, published Oct. 27, 1953.
Truck and trailer bodies. Keystone Trailer & Equipment Co., Inc. 584,957, Jan. 19; Serial No. 647,196, published Sept. 29, 1953.
Trucks, Automobile. Six Wheels Incorporated. 209,196, Feb. 16, 1926. Republished Jan. 19.
Trucks, Hand. Terminal Metal Products Corporation. 584,958, Jan. 19; Serial No. 647,666, published Sept. 29, 1953.

CLASS 21

Antennas, wire transmission lines, transmitter and receiver sets. J. V. Fisher. 584,994, Jan. 19; Serial No. 639,560.
Batteries, Storage. Globe-Union Inc. 584,903, Jan. 19; Serial No. 643,952, published Oct. 20, 1953.
Condensers used in conjunction with all types of electronic equipment. Electronic Fabricators, Inc. 584,911, Jan. 19; Serial No. 644,226, published Oct. 20, 1953.
Electric generating plants. Kohler Co. 167,671, May 8, 1923. Republished Jan. 19.
Electric griddles, electric frying pans, electric deep fat fryers. Naxon Utilities Corporation. 584,762, Jan. 19; Serial No. 601,637, published Oct. 27, 1953.
Electric radiant heating cables. Homes, Incorporated. 584,996, Jan. 19; Serial No. 640,401.
Electric sprayers and dusters, Portable hand-operated. The Electric Sprayit Company. 584,817, Jan. 19; Serial No. 631,911, published Oct. 20, 1953.
Electric transformers and chokes. Transformer Technicians Inc. 584,860, Jan. 19; Serial No. 637,734, published Oct. 20, 1953.
Electrical controller apparatus. Sel-Set Company. 584,768, Jan. 19; Serial No. 612,358, published Oct. 20, 1953.
Electrical signaling device. Health Guardian Corporation. 584,981, Jan. 19; Serial No. 631,057.
Electrical wiring supplies and accessories therefor. Electrical Fittings Corporation. 584,872, Jan. 19; Serial No. 639,923, published Oct. 20, 1953.
Electrically actuated portable screw-drivers. Independent Pneumatic Tool Company. 584,983, Jan. 19; Serial No. 632,672.
Fans, Electric. Westinghouse Electric Corporation. 584,862, Jan. 19; Serial No. 638,172, published Oct. 20, 1953.
Machines employing electric light bulbs. Geo. A. Fox Products Co., Inc. 584,802, Jan. 19; Serial No. 627,331, published Oct. 20, 1953.
Radio and television receivers, communication, industrial, radio and television transmitting and receiving tubes, etc. Mullard Limited. 584,975, Jan. 19; Serial No. 624,416.
Radios, Clock. Bulova Watch Company, Inc. 584,913, Jan. 19; Serial No. 644,277, published Oct. 20, 1953.
Resinous surfacing material for rendering floors conductive of electricity. Venus Chemical Company, Inc. 584,920, Jan. 19; Serial No. 644,579, published Oct. 20, 1953.
Telephone switching systems and apparatus therefor, electric wave signal transmission systems and apparatus therefor, etc. International Telephone and Telegraph Corporation. 584,815, Jan. 19; Serial No. 631,668, published Oct. 27, 1953.

CLASS 22

Doll carriages. Playtime Products, Inc. 584,999, Jan. 19; Serial No. 644,687.
Dolls. M. Hockaday. 584,876, Jan. 19; Serial No. 640,632, published Oct. 20, 1953.
Fish hooks and bait holders. K. V. Lysen. 584,980, Jan. 19; Serial No. 628,415.
Fishing rods, fishing lines, fishhooks, etc. Grants Pass Sporting Goods. 584,875, Jan. 19; Serial No. 640,512, published Oct. 20, 1953.
Games. E. Beaver. 584,993, Jan. 19; Serial No. 639,150.
Implements, apparatus, goods, and clothing used in athletic games and sports, etc. Victor Sporting Goods Company. 93,941, renewed Oct. 21, 1953. O. G. Jan. 19.
Internal combustion engines, and parts therefor, for use in toy model vehicles. Wen-Mac Corporation. 584,870, Jan. 19; Serial No. 639,353, published Oct. 20, 1953.
Skates, Roller. Louis Marx & Company, Inc. 304,705, renewed July 18, 1953. O. G. Jan. 19.
Toy, Child's. American Metal Specialties Corporation. 584,986, Jan. 19; Serial No. 634,625.
Toys, Paperboard set-up. Badger Carton Company. 309,333, renewed Jan. 9, 1954. O. G. Jan. 19.

CLASS 23

Can opener. Vaughan Mfg. Co. 584,834, Jan. 19; Serial No. 633,824, published Sept. 15, 1953.
Cookie-cutting molds, Plastic. H. R. Maier. 582,019, Nov. 3, 1953. Corrected. O. G. Jan. 19.
Drum hoists and drum therefor, Single and multiple. American Hoist & Derrick Co. 584,748, Jan. 19; Serial No. 540,957, published July 28, 1953.
Handles for tools. Hartwell Brothers. 309,041, renewed Dec. 26, 1953. O. G. Jan. 19.
Injection molding machine feeders. A. R. Morse. 584,830, Jan. 19; Serial No. 633,427, published Sept. 15, 1953.
Steam turbines and parts thereof; internal combustion turbines and parts thereof, etc. Metropolitan-Vickers Electrical Company Limited. 584,757, Jan. 19; Serial No. 591,790, published Sept. 22, 1953.
Knives and scrapers, Putty. Hyde Manufacturing Company. 584,890, Jan. 19; Serial No. 642,225, published Sept. 15, 1953.
Paper fastening devices and paper fasteners. The Bates Manufacturing Company. 310,903, renewed Mar. 13, 1954. O. G. Jan. 19.
Ploughs, cultivators, diggers, etc. Rotary Hoes Limited. 584,989, Jan. 19; Serial No. 637,088.
Power-shovels, drag-shovels, cranes, etc. Bucyrus-Erie Company. 584,979, Jan. 19; Serial No. 627,380.
Scissors, Household, and household shears. Federated Department Stores, Inc. 584,889, Jan. 19; Serial No. 642,028, published Sept. 15, 1953.
Sprayers, and parts therefor, Hand-operated pump type. The E. C. Brown Co. 584,895, Jan. 19; Serial No. 642,612, published Sept. 15, 1953.
Sprayers, and parts therefor, Hand-operated pump type. The E. C. Brown Co. 584,900, Jan. 19; Serial No. 643,283, published Sept. 15, 1953.
Steam turbines and parts thereof; internal combustion turbines and parts thereof, etc. Metropolitan-Vickers Electrical Company Limited. 584,758, Jan. 19; Serial No. 591,792, published Sept. 22, 1953.
Tools, Stud driving and removing. Mid-West Tool Company. 584,915, Jan. 19; Serial No. 644,331, published Sept. 15, 1953.
Type-writers. Imperial Typewriter Co. Limited. 94,643, re-renewed Dec. 23, 1953. O. G. Jan. 19.

CLASS 26

Calender chart operated in the manner of a slide rule. R. M. Sherman. 584,970, Jan. 19; Serial No. 613,655.

CLASS 27

Horological instruments. Michaels & Co., Inc. 584,854, Jan. 19; Serial No. 636,990, published Aug. 18, 1953.
Horological instruments. Products Exchange Company, Inc. 584,857, Jan. 19; Serial No. 637,502, published Aug. 18, 1953.
Watches, and parts of watches. Felca S. A. 584,764, Jan. 19; Serial No. 603,289, published Oct. 27, 1953.

CLASS 28

Bracelets and watch bracelets and watch straps. Gemex Company. 584,921, Jan. 19; Serial No. 644,613, published Oct. 27, 1953.
Bracelets and watch bracelets and watch straps. Gemex Company. 584,926–8, Jan. 19; Serial Nos. 644,908–10, published Oct. 27, 1953.
Bracelets and watch bracelets and watch straps. Gemex Company. 584,942, Jan. 19; Serial No. 645,798, published Oct. 27, 1953.
Bracelets and watch bracelets and watch straps. Gemex Company. 584,949, Jan. 19, Serial No. 646,544, published Oct. 27, 1953.
Jewelry and precious metalware. Michaels & Co., Inc. 584,855, Jan. 19; Serial No. 636,991, published Oct. 27, 1953.
Jewelry, Costume. H. A. La Pensée. 584,984, Jan. 19; Serial No. 633,369.
Necklaces and bracelets, finger rings, etc. Cohn & Rosenberger, Inc. 349,268, Aug. 24, 1937. Republished Jan. 19.
Necklaces, Pearl, pearl earrings, pearl bracelets, etc. Coro, Inc. 425,516, Nov. 26, 1946. Republished Jan. 19.
Pins, clips, brooches, etc. Cohn & Rosenberger, Inc. 378,029, May 21, 1940. Republished Jan. 19, 1954.

CLASS 29

Gravity fed and dip type liquid brushes, or felt pad applicators. J. A. Voss. 584,752, Jan. 19; Serial No. 568,696, published Oct. 27, 1953.
Hand implements for cleaning the slats of Venetian blinds. Blind-Eze Company. 584,976, Jan. 19; Serial No. 625,785.

Mops, Floor. Corcoran Mfg. Co. 584,898, Jan. 19; Serial No. 642,951, published Oct. 27, 1953.

CLASS 30

China dinnerware. National Silver Company. 584,844, Jan. 19; Serial No. 635,231, published Aug. 18, 1953.
China tableware. Easterling China Company. 584,781, Jan. 19; Serial No. 619,822, published Oct. 27, 1953.
China tableware. Palmeter's Limited. 584,893, Jan. 19; Serial No. 642,366, published Aug. 18, 1953.
Chinaware. Lipper & Mann, Inc. 584,845, Jan. 19; Serial No. 635,313, published Oct. 27, 1953.
Gift shop items—namely, earthenware and porcelain dishes, etc. 584,766, Jan. 19; Serial No. 609,182, published Oct. 27, 1953.
Porcelain vases; chinaware. Ardalt Inc. 584,791, Jan. 19; Serial No. 624,583, published Aug. 18, 1953.

CLASS 32

Picture-frames, mirror, bedsteads, etc. Daimler-Motoren-Gesellschaft. 91,948, re-renewed June 10, 1953. O. G. Jan. 19.

CLASS 34

Heaters and parts therefor, Fan equipped, fluid heated type, air. E. L. Schofield, Incorporated. 584,973, Jan. 19; Serial No. 623,211.
Heaters and parts therefor, Fan equipped, fluid heated type, air. E. L. Schofield, Incorporated. 584,974, Jan. 19; Serial No. 623,213.
Soldering-lamps, hot-water foot-warmers, foot-warmers, etc. Daimler-Motoren-Gesellschaft. 91,949, re-renewed June 10, 1953. O. G. Jan. 19.

CLASS 35

Brake-lining. The Russell Manufacturing Company. 95,352, re-renewed Feb. 10, 1954. O. G. Jan. 19.
Brake linings, Molded, semimolded, and woven. The Russell Manufacturing Company. 308,362, renewed Dec. 5, 1953. O. G. Jan. 19.

CLASS 36

Accordions. V. Castiglione. 584,906, Jan. 19; Serial No. 644,011, published Oct. 27, 1953.
Accordions. Excelsior Accordions, Inc. 584,941, Jan. 19; Serial No. 645,789, published Oct. 20, 1953.
Cymbals. Zildjian, Avedis, Co. 584,841, Jan. 19; Serial No. 635,077, published Oct. 6, 1953.
Phonograph records, Grooved. Ace-Hi Records, Inc. 584,912, Jan. 19; Serial No. 644,271, published Oct. 27, 1953.
Phonograph records, Grooved. Columbia Records Inc. 584,945, Jan. 19; Serial No. 646,111, published Oct. 20, 1953.
Phonograph records, Grooved, and record blanks. Electric & Musical Industries Limited. 584,886, Jan. 19; Serial No. 641,443, published Oct. 13, 1953.
Phonograph records, Mechanically grooved. Don Large Enterprises Inc. 584,954, Jan. 19; Serial No. 646,779, published Oct. 20, 1953.
Phonograph records, Mechanically grooved. Prom Record Co. 584,946, Jan. 19; Serial No. 646,232, published Oct. 20, 1953.
Phonograph records, Mechanically grooved. Seven-Eleven Records, Inc. 584,932, Jan. 19; Serial No. 645,436, published Oct. 20, 1953.
Phonograph styli. General Electric Company. 584,871, Jan. 19; Serial No. 639,629, published Oct. 27, 1953.
Phonographs and parts thereof. Columbia Broadcasting System, Inc. 584,955, Jan. 19; Serial No. 646,850, published Oct. 20, 1953.

CLASS 37

Tablets, composition-books, note-books, etc. Theo. Schmidtman's Sons Company. 41,511, re-renewed Nov. 24, 1953. O. G. Jan. 19.

CLASS 38

Catalogue, Fishing tackle. Oakes Consumer Catalogs. 584,904, Jan. 19; Serial No. 643,973, published Oct. 13, 1953.
Catalogues. Supplee-Biddle-Steltz Company. 584,940 Jan. 19; Serial No. 645,744, published Oct. 13, 1953.
Magazine. Dell Publishing Company, Inc. 584,902, Jan. 19; Serial No. 643,897, published Oct. 13, 1953.
Magazine, Illustrated. Atlantis, Inc. 584,919, Jan. 19; Serial No. 644,534, published Oct. 13, 1953.
News letter or house organ. Koodin-Lapow Associates. 584,891, Jan. 19; Serial No. 642,251, published Oct. 13 1953.
Newspaper and magazine feature. The Register and Tribune Company. 584,907, Jan. 19; Serial No. 644,064, published Oct. 13, 1953.
Periodical. Meat Merchandising, Inc. 584,856, Jan. 19; Serial No. 637,317, published Oct. 27, 1953.
Publications, Religious. The Evangelical Methodist Church. 584,879, Jan. 19; Serial No. 641,179, published Oct. 13, 1953.

CLASS 39

Articles of wearing apparel, work pants, work shirts, overalls, etc. Sam Shainberg Dry Goods Company. 584,888, Jan. 19; Serial No. 641,976, published Oct. 27, 1953.

Boot toes, Particular type of. Westex Boot and Shoe Company, Inc. 584,803, Jan. 19; Serial No. 627,611, published Oct. 6, 1953.
Boots. The Cambridge Rubber Company. 584,804, Jan. 19; Serial No. 628,190, published Oct. 27, 1953.
Boots and shoes. Field and Flint Co. 308,016, renewed Nov. 14, 1953. O. G. Jan. 19.
Boots, Hunting. Belleville Shoe Manufacturing Company. 584,917, Jan. 19; Serial No. 644,383, published Oct. 6, 1953.
Boots, shoes and slippers. Brevitt Shoes Limited. 584,861, Jan. 19; Serial No. 637,910, published Oct. 13, 1953.
Clothing, Knitted articles of. Wollfärberei Bürglen Dr. Jakob Cunz Aktiengesellschaft. 584,848, Jan. 19; Serial No. 635,863, published Oct. 27, 1953.
Coats and coat sets, Infants' and toddlers'. Ricky Craft Originals. 584,908, Jan. 19; Serial No. 644,066, published Oct. 27, 1953.
Coats and suits, Ladies'. Louis Walter & Co., Inc. 584,933, Jan. 19; Serial No. 645,454, published Oct. 27, 1953.
Coats, dresses, gowns, etc., Junior misses', misses' and ladies'. Manufactures de Senones (Vosges) Société à Responsabilité Limitée. 584,797, Jan. 19; Serial No. 626,395, published Oct. 6, 1953.
Coats, Ladies' and misses'. Whitley Tailleurs Inc. 584,934, Jan. 19; Serial No. 645,455, published Oct. 27, 1953.
Covers made of transparent plastic material for women's shoes and boots. National Transparent Plastics Company. 584,833, Jan. 19; Serial No. 633,785, published Oct. 27, 1953.
Diapers. Dri-Babe of California, Inc. 584,852, Jan. 19; Serial No. 636,412, published Oct. 27, 1953.
Diapers. The Millville Manufacturing Company. 584,812, Jan. 19; Serial No. 630,435, published Oct. 27, 1953.
Garments and accessories, Women's ready-to-wear. J. W. Robinson Co. 584,772, Jan. 19; Serial No. 613,346, published Oct. 27, 1953.
Garments, Men's, women's and children's outer. Deering, Milliken & Co., Inc. 584,869, Jan. 19; Serial No. 639,317, published Oct. 6, 1953.
Hosiery. Melrose Hosiery Mills, Inc. 584,896, Jan. 19; Serial No. 642,635, published Oct. 27, 1953.
Outerwear, Ladies' and misses'. The House of Swansdown, Inc. 584,939, Jan. 19; Serial No. 645,710, published Oct. 27, 1953.
Overalls, Men's and boys', men's trousers and work shirts. The Crown Overall Mfg. Co. 311,549, renewed Mar. 27, 1954. O. G. Jan. 19.
Pajamas and undershorts, Men's. Carmi-Ainsbrooke Corporation. 584,806, Jan. 19; Serial No. 629,424, published Oct. 27, 1953.
Pants, Infants' training. The Atlas Underwear Company. 584,953, Jan. 19; Serial No. 646,645, published Oct. 27, 1953.
Protective covering of sheet material with eye holes for covering the face. I. B. Kleinert Rubber Company. 584,914, Jan. 19; Serial No. 644,324, published Oct. 27, 1953.
Shirts, Dress, negligee, and work, night-shirts, etc. M. Phillips & Sons. 95,010, re-renewed Jan. 20, 1954. O. G. Jan. 19.
Shoes. General Shoe Corporation. 584,929, Jan. 19; Serial No. 644,979, published Oct. 6, 1953.
Shoes. Johnson, Stephens and Shinkle Shoe Company. 584,948, Jan. 19; Serial No. 646,447, published Oct. 27, 1953.
Shoes. London Character Shoes Corporation. 584,910. Jan. 19; Serial No. 644,125, published Oct. 6, 1953.
Shoes. Simplex Shoe Manufacturing Company. 584,853, Jan. 19; Serial No. 636,864, published Oct. 27, 1953.
Shoes and also for leather insoles. Endicott Johnson Corporation. 584,885, Jan. 19; Serial No. 641,373, published Oct. 6, 1953.
Shoes and sandals. Randolph Manufacturing Company, Incorporated. 584,777, Jan. 19; Serial No. 617,377. published Oct. 27, 1953.
Shoes and shoe soles, Men's, women's and children's. R. E. Plummer. 584,937, Jan. 19; Serial No. 645,666, published Oct. 27, 1953.
Shoes and slippers, Women's, misses' and children's. Saks & Company. 584,938, Jan. 19; Serial No. 645,674. published Oct. 27, 1953.
Shoes, football shoes, baseball shoes, etc., Men's, women's and children's bowling. Shoe Corporation of America. 584,809, Jan. 19; Serial No. 629,960, published Oct. 6, 1953.
Shoes, Men's. Stone-Tarlow Co., Inc. 584,859, Jan. 19; Serial No. 637,729, published Oct. 6, 1953.
Shoes, Men's, women's and children's. International Shoe Company. 584,935, Jan. 19; Serial No. 645,572, published Oct. 27, 1953.
Shoes, slippers, loafers, Girls'. National Bellas Hess, Inc. 584,807, Jan. 19; Serial No. 629,451, published Oct. 27, 1953.
Shoes, Women's. Deb Shoe Company, Inc. 584,951–2, Jan. 19; Serial Nos. 646,605–6, published Oct. 27, 1953.
Shoes, Women's. Joyce, Inc. 584,947, Jan. 19; Serial No. 646,399, published Oct. 27, 1953.
Shoes, Women's. Marshall, Meadows & Stewart, Inc. 584,750, Jan. 19; Serial No. 550,535, published Oct. 6, 1953.

Shoes, Women's, misses', children's, infants' and babies'. J. Edwards & Co. 584,909, Jan. 19; Serial No. 644,104, published Oct. 6, 1953.
Skirts, cullottes, jackets, etc. College Town Sportswear. 584,894, Jan. 19; Serial No. 642,524, published Oct. 6, 1953.
Slippers, Children's. Little Ones Footwear Inc. 584,936 Jan. 19; Serial No. 645,654, published Oct. 27, 1953.
Slippers, Women's house. Bailey Shoe Company. 584,826. Jan. 19; Serial No. 632,499, published Oct. 27, 1953.
Socks and stockings, Men's, ladies' and children's. M. Kahn. 584,956, Jan. 19; Serial No. 646,874, published Oct. 27, 1953.
Sweaters, skirts, blouses, etc., Ladies', girls', and children's. Kaufman Knitting Company. 584,765, Jan. 19; Serial No. 607,333, published Oct. 6, 1953.
Toes for shoes, Steel box. Safety Box Toe Company. 584,769, Jan. 19; Serial No. 612,474, published Oct. 27, 1953.
Wearing apparel, Men's. George W. Heller, Inc. 584,808, Jan. 19; Serial No. 629,671, published Oct. 27, 1953.

CLASS 40

Woven and braided elastic fabric strips, tapes, trimmings, etc. Thomas Taylor & Sons, Inc. 584,778, Jan. 19; Serial No. 617,736, published Oct. 27, 1953.

CLASS 44

Artificial teeth. Vita-Zahnfabrik H. Rauter o. H. G. 584,880, Jan. 19; Serial No. 641,254, published Oct. 27, 1953.
Bandages. Fairhope Fabrics, Inc. 584,995, Jan. 19; Serial No. 640,265.
Hearing aids and acoustic elements and accessories thereof. Sonotone Corporation. 584,756, Jan. 19; Serial No. 583,621, published July 8, 1952.
Secondary filters capable of filtering off the harmful rays generated by the radium or radon component present in radium or radon-containing appliances. The Radium Emanation Corporation. 363,743, Jan. 3, 1939. Republished Jan. 19.

CLASS 45

Beverages, Nonalcoholic maltless. Reimann Industries, Inc. 584,760, Jan. 19; Serial No. 595,471, published Oct. 13, 1953.
Carbonated flavored non-alcoholic drinks. Simpson Spring Company. 93,765, re-renewed Oct. 14, 1953. O. G. Jan. 19.
Sparkling water, and non-alcoholic, maltless beverages. The Shasta Water Company. 584,883, Jan. 19; Serial No. 641,337, published Oct. 6, 1953.

CLASS 46

Alimentary paste products. Prince Macaroni Manufacturing Company. 584,759, Jan. 19; Serial No. 593,686, published Oct. 20, 1953.
Alimentary pastes. Flli De Cecco Di Filippo. 584,823, Jan. 19; Serial No. 632,364, published Sept. 29, 1953.
Alimentary pastes Flli De Cecco Di Filippo. 584,824, Jan. 19; Serial No. 632,365, published Oct. 20, 1953.
Bacon. American Stores Company. 584,753, Jan. 19; Serial No. 590,056, published Feb. 24, 1953.
Candy. Candy-Lane, Inc. 584,754, Jan. 19; Serial No. 590,351, published Mar. 18, 1952.
Candy. New England Confectionery Company. 307,039, renewed Oct. 10, 1953. O. G. Jan. 19.
Candy. Schwartz Candies Inc. 584,930, Jan. 19; Serial No. 645,264, published Sept. 29, 1953.
Candy. Trudeau Candies, Inc. 584,773, Jan. 19; Serial No. 614,178, published Oct. 20, 1953.
Candy, Chocolate. Brock & Company, Inc. 584,918, Jan. 19; Serial No. 644,493, published Oct. 20, 1953.
Canned cat food. B. W. Doyle. 303,902, renewed June 13, 1953. O. G. Jan. 19.
Canned chile concarne and Mexican chile. Key's Chile Parlor. 306,917, renewed Oct. 3, 1953. O. G. Jan. 19.
Canned fish and packaged frozen fish. Davis Bros. Fisheries Co. Inc. 584,960, Jan. 19; Serial No. 647,976, published Sept. 29, 1953.
Canned food. Atlas Canning Company, Inc. 310,719, renewed Mar. 6, 1954. O. G. Jan. 19.
Canned food. Cardinal Food Products, Inc. 584,977, Jan. 19; Serial No. 626,604.
Canned foods. Midland Canning Corporation. 584,749, Jan. 19; Serial No. 545,639, published Oct. 20, 1953.
Canned frozen fresh fruit and canned frozen concentrated fruit juice. Hawaiian Pineapple Company, Limited. 584,990, Jan. 19; Serial No. 637,585.
Canned fruits and canned vegetables. Schuckl & Co. Inc 584,882, Jan. 19; Serial No. 641,332, published Oct. 20, 1953.
Canned fruits and vegetables, and canned tomato juice. Walla Walla Canning Company. 311,418, renewed Mar. 20, 1954. O. G. Jan. 19.
Canned vegetables, canned sauerkraut, canned apple sauce, etc. Chitty & Co. 309,856, renewed Feb. 6, 1954. O. G. Jan. 19.
Chicken, Cooked, and prepared dinners. C. W. White. 584,776, Jan. 19; Serial No. 615,301, published Oct. 20, 1953.
Chili powder. Chili Products Corporation Ltd. 584,901, Jan. 19; Serial No. 643,647, published Oct. 20, 1953.
Chocolate, Solid. Hershey Chocolate Corporation. 584,788, Jan. 19; Serial No. 623,544, published Sept. 29, 1953.
Coffee, canned vegetables, canned fruits, etc. Chitty & Co. 30?,855, renewed Feb. 6, 1954. O. G. Jan. 19.
Coffee, Roasted. Continental Coffee Company. 433,708, Oct. 28, 1947. Republished Jan. 19.
Cookies. C. A. Wilkinson. 584,771, Jan. 19; Serial No. 613,100, published Oct. 20, 1953.
Dairy products. Knudsen Creamery Co. of California. 584,767, Jan. 19; Serial No. 611,433, published Oct. 20, 1953.
Egg mash, concentrated poultry feed, hog feed, etc. Flour Mills of America, Inc. 584,785, Jan. 19; Serial No. 622,432, published June 17, 1952.
Emulsions of fatty acid esters in water being for use as a substitute for cream. John R. Sorensen & Company Limited. 584,822, Jan. 19; Serial No. 632,276, published Oct. 27, 1953.
Feeds, Poultry, dairy, and stock. New England Grain Products Co. 584,761, Jan. 19; Serial No. 600,608, published Oct. 20, 1953.
Flour, High gluten. The Mauser Mill Company. 308,618, renewed Dec. 12, 1953. O. G. Jan. 19.
Flour, Rye, wheat, and buckwheat. Barber & Bennett. 95,863, re-renewed Mar. 24, 1954. O. G. Jan. 19.
Flour, Wheat. Fisher Flouring Mills Company. 584,751, Jan. 19; Serial No. 563,921, published Oct. 20, 1953.
Food, Dog and cat. Pets Meat Packing Company. 584,787, Jan. 19; Serial No. 623,429, published May 12, 1953.
Food preparation. Spratt's Patent (America) Limited. 95,956–7, re-renewed Mar. 24, 1954. O. G. Jan. 19.
Foods, Poultry and stock. E. L. M. Stores. 584,774, Jan. 19; Serial No. 614,269, published Oct. 20, 1953.
Fruits, Fresh citrus. Saticoy Lemon Association. 584,923, Jan. 19; Serial No. 644,791, published Oct. 20, 1953.
Fruits, Fresh citrus. Saticoy Lemon Association. 584,924, Jan. 19; Serial No. 644,793, published Oct. 20, 1953.
Honey. H. H. Schumacher. 311,152, renewed Mar. 13, 1954. O. G. Jan. 19.
Jellies, Food, blanc-mange and custard powders, etc. Monkhouse and Glasscock Limited. 93,887, re-renewed Oct. 21, 1953. O. G. Jan. 19.
Lard, Pure refined, prime steam lard, rendered pork fat, etc. Plata American Trading Inc. 584,779, Jan. 19; Serial No. 618,125, published Oct. 20, 1953.
Macaroons, Almond. Theo. J. Lapres, Inc. 584,796, Jan. 19; Serial No. 626,209, published Oct. 20, 1953.
Meats, Cured. J. C. Hutton. 41,720, re-renewed Dec. 22, 1953. O. G. Jan. 19.
Melons, Fresh. J. E. Howe. 584,827, Jan. 19; Serial No. 633,309, published Oct. 27, 1953.
Milk, Evaporated and condensed. Nestlé's Milk Products, Inc. 311,529, renewed Mar. 27, 1954. O. G. Jan. 19.
Popcorn, vegetable oils, and popcorn oil. Marose Company, Inc. 584,784, Jan. 19; Serial No. 622,114, published Jan. 20, 1953.
Pork sausage, Cured smoked. Kuhner Packing Company. 584,874, Jan. 19; Serial No. 640,162, published Oct. 27, 1953.
Poultry. Clarinda Poultry, Butter & Egg Co. 41,451, re-renewed Nov. 10, 1953. O. G. Jan. 19.
Preparation for making coffee substitute. General Foods Corporation. 584,867, Jan. 19; Serial No. 639,220, published Oct. 20, 1953.
Rice. Compañia Primer Molino Arrocero de Cuba, S. A. 310,297, renewed Feb. 20, 1954. O. G. Jan. 19.
Rice, Converted Rice, Inc. 584,858, Jan. 19; Serial No. 637,646, published Oct. 20, 1953.
Shortening, Vegetable. The Miami Margarine Company. 584,805, Jan. 19; Serial No. 629,310, published Sept. 29, 1953.
Shrimp, Frozen headless. E. Martin, Jr. 584,959, Jan. 19; Serial No. 647,790, published Oct. 20, 1953.
Sirup for food purposes, Malt. Minneapolis Brewing Company. 226,295–7, Apr. 5, 1927. Republished Jan. 19.
Spices. "Pilotlab." 584,775, Jan. 19; Serial No. 615,245, published Oct. 13, 1953.
Turkeys, Eviscerated oven-ready stuffed and unstuffed. F. C. Adams. 584,899, Jan. 19; Serial No. 643,259, published Oct. 20, 1953.
Vegetables, Packaged fresh. Sunny Sally Vegetables Growers. 584,755, Jan. 19; Serial No. 569,905, published Mar. 18, 1952.

CLASS 48

Beer. Minneapolis Brewing Co. 54,643, June 26, 1906. Republished Jan. 19.
Malt beverages. Holsten-Branerei. 306,117, renewed Sept. 5, 1953. O. G. Jan. 19.
Malt beverages. K B Beverage Company. 302,119–20, renewed Mar. 28, 1953. O. G. Jan. 19.
Malt beverages. K B Beverage Company. 302,338, renewed Apr. 11, 1953. O. G. Jan. 19.

CLASS 49

Anisette. Hijos de Francisco Serrano. 304,628, renewed July 11, 1953. O. G. Jan. 19.

Brandies. P. Domecq. 89,632, re-renewed Dec. 31, 1952. O. G. Jan. 19.
Brandies. P. Domecq. 89,738–40, re-renewed Jan. 7, 1953. O. G. Jan. 19.
Brandies and liquors, Anised. Hijos de Francisco Serrano. 304,630, renewed July 11, 1953. O. G. Jan. 19.
Brandy. Laird & Company. 310,540, renewed Feb. 27, 1954. O. G. Jan. 19.
Brandy. Laird & Company. 311,056, renewed Mar. 13, 1954. O. G. Jan. 19.
Brandy. Laird & Company. 311,177, renewed Mar. 13, 1954. O. G. Jan. 19.
Brandy. Laird & Company. 311,181, renewed Mar. 13, 1954. O. G. Jan. 19.
Brandy. Laird & Company. 311,217, renewed Mar. 20, 1954. O. G. Jan. 19.
Whiskies. Stitzel-Weller Distillery. 584,851, Jan. 19; Serial No. 636,2..9, published Oct. 13, 1953.
Whisky. John & Robt. Harvey & Company Limited. 304,693, renewed July 18, 1953. O. G. Jan. 19.

CLASS 50

Art symbols, Small. B. T. Quirk. 584,821, Jan. 19; Serial No. 632,110, published Oct. 20, 1953.
Floral display. Bowl-O-Beauty Co. 584,789, Jan. 19; Serial No. 624,020, published Oct. 27, 1953.
Sick call set for priests. L. A. Calhoun. 584,897, Jan. 19; Serial No. 642,800, published Oct. 20, 1953.
Thin, plastic sheet material, sold cut to size, for use in the mixing and rolling of pie dough and the like. M. P. Semple. 584,819, Jan. 19; Serial No. 631,950, published Oct. 20, 1953.

CLASS 51

Artificial denture cleansers. The Phillips & Benjamin Company. 310,067, Feb. 13, 1934. Republished Jan. 19.
Bath salts, bleaching compounds. Sargeant Acnoid Pharmaceutical Co., Inc. 308,873, renewed Dec. 26, 1953. O. G. Jan. 19.
Cosmetic kits. R. Hudnut. 584,832, Jan. 19; Serial No. 633,674, published Oct. 20, 1953.
Cosmetics. Stanley Home Products, Inc. 584,864, Jan. 19; Serial No. 638,556, published July 28, 1953.
Face powders, talcum powders, bath salts, etc. A. Niggi & C. 584,763, Jan. 19; Serial No. 601,638, published Oct. 6, 1953.
Facial cream. Vix Laboratories, Inc. 584,820, Jan. 19; Serial No. 631,954, published Oct. 6, 1953.
Hair and scalp stimulator preparation, after shaving balm, and shampoo. S. Pfeiffer Manufacturing Company. 338,137, Sept. 1, 1936. Republished Jan. 19.
Hair dressing and conditioner. Lucky Tiger Manufacturing Co. 584,944, Jan. 19; Serial No. 645,997, published Oct. 6, 1953.
Lotion, After shave. Colgate-Palmolive-Peet Company. 584,865, Jan. 19; Serial No. 638,835, published Oct. 6, 1953.
Lotion, Hand, and skin cream. Skin Research, Inc. 584,878, Jan. 19; Serial No. 640,871, published Oct. 20, 1953.
Lotions, Hair, and hair cremes. Rayette, Inc. 584,863, Jan. 19; Serial No. 638,270, published Oct. 20, 1953.
Make-up ensemble, Face. G. S. Sanders. 584,814, Jan. 19; Serial No. 630,963, published Oct. 6, 1953.
Mouthwashes. Extraction & Chemical Company Inc. 584,968, Jan. 19; Serial No. 586,967.
Pastes and powders for beautifying and preserving the teeth, skin, etc., and perfumery. Parfumerie Roger et Gallet, Societe Anonyme. 307,405, renewed Oct. 24, 1953. O. G. Jan. 19.
Perfume. R. Hudnut. 584,831, Jan. 19; Serial No. 633,673, published Oct. 20, 1953.
Perfume and eau de parfum. Helena Rubinstein, Inc. 584,925, Jan. 19; Serial No. 644,872, published Oct. 6, 1953.
Perfume, cologne and cologne stick. Bourjois, Inc. 584,931, Jan. 19; Serial No. 645,384, published Oct. 6, 1953.
Perfume oil and sachet powder. P. M. Simmons. 584,792, Jan. 19; Serial No. 624,720, published Oct. 20, 1953.
Perfume, toilet water, face powder, etc. Houbigant, Inc. 186,002, July 1, 1924. Republished Jan. 19.
Perfumery, toilet water, face powder, etc. Joseph H. Meyer Brothers. 308,532, renewed Dec. 5, 1953. O. G. Jan. 19.
Protective cream. Texas Pharmacal Company. 584,997, Jan. 19; Serial No. 641,752.
Shaving lather. Van Brode Milling Co., Inc. 584,884, Jan. 19; Serial No. 641,354, published Oct. 20, 1953.
Sun tan oil. C. M. McCarthy. 584,835, Jan. 19; Serial No. 633,852, published Oct. 6, 1953.
Toilet preparations. Karlsruher Parfumerie-und Toiletteselfenfabrik F. Wolff & Sohn, Gesellschaft mit Beschränkter Haftung. 308,864, renewed Dec. 26, 1953. O. G. Jan. 19.
Toiletries. Le Anne Toiletries. 584,816, Jan. 19; Serial No. 631,742, published Oct. 6, 1953.

CLASS 52

Chemical compounds for cleaning engine and machinery parts, etc. R. M. Hollingshead Corporation. 584,790, Jan. 19; Serial No. 624,546, published Oct. 20, 1953.
Cleaner-sanitizer. Apothecaries Hall Company. 584,887, Jan. 19; Serial No. 641,662, published Oct. 20, 1953.
Cleaning and brightening compound, Aluminum. Wyandotte Chemicals Corporation. 584,905, Jan. 19; Serial No. 643,993, published Oct. 20, 1953.
Cleaning composition. Industrial Soap Company. 584,850, Jan. 19; Serial No. 636,130, published Oct. 20, 1953.
Cleaning composition, Grease and oil-absorbent. Gregg Products Co. 584,982, Jan. 19; Serial No. 631,351.
Cleaning compound. Gateway Chemicals, Inc. 584,840, Jan 19; Serial No. 634,938, published Oct. 20, 1953.
Cleanser. Mapor Corporation. 584,992, Jan. 19; Serial No. 638,937.
Cleansing and washing compound, General. Oakite Products, Inc. 584,813, Jan. 19; Serial No. 630,607, published Oct. 20, 1953.
Cleansing preparation, Waterless hand. C. E. Strickler, Jr. 584,846, Jan. 19; Serial No. 635,331, published Oct. 20, 1953.
Hair and scalp stimulator preparation, after shaving balm, and shampoo. S. Pfeiffer Manufacturing Company. 338,137, Sept. 1, 1936. Republished Jan. 19.
Lotion for the relief of dogs suffering from ticks, fleas, etc. John Peter Edge, Ltd. 584,985, Jan. 19; Serial No. 633,492.
Preparation for removing ink, insecticide for domestic use, etc. H. W. Baldwin. 308,870, renewed Dec. 26, 1953. O. G. Jan. 19.
Soap and scouring powder. Finnell System, Incorporated. 584,825, Jan. 19; Serial No. 632,472, published Oct. 20, 1953.
Soap, Toilet. Bourjois, Inc. 310,371, renewed Feb. 20, 1954. O. G. Jan. 19.
Soaps, Toilet. Parfumerie Roger & Gallet, Societe Anonyme. 307,019, renewed Oct. 10, 1953. O. G. Jan. 19.
Sponge containing a detergent. C. F. J. Dupuy. 584,780, Jan. 19; Serial No. 618,915, published Oct. 15, 1953.
Washing compound, Controlled suds. The Buckeye Soda Company. 584,799, Jan. 19; Serial No. 626,653, published Oct. 13, 1953.
Washing compound, Laundry. Wyandotte Chemicals Corporation. 584,916, Jan. 19; Serial No. 644,370, published Oct. 20, 1953.

CLASS 100

Stimulating and maintaining interest in the reduction of pedestrian and traffic accidents. National Safe Drivers Association. 585,000, Jan. 19; Serial No. 631,389.
Trade association services rendered to its members. National Fisheries Institute, Inc. 584,962, Jan. 19; Serial No. 586,872, published Oct. 27, 1953.

CLASS 102

General insurance brokerage. H. V. Maguire. 584,964, Jan. 19; Serial No. 601,635, published Sept. 22, 1953.
Underwriting of insurance. Group Health Mutual Incorporated. 584,965, Jan. 19; Serial No. 613,003, published Oct. 7, 1952.

CLASS 103

Chemical treatment of buildings and wooden structures for preserving and protecting same against termites, etc. Hill-Smith Termite Control Co. 584,967, Jan. 19; Serial No. 632,936, published Oct. 27, 1953.
Reaming of foundation holes for foundation footings, D. O. Talley. 584,966, Jan. 19; Serial No. 620,297, published Oct. 27, 1953.

CLASS 106

Binding of books, pamphlets, catalogues, magazines, etc. R. R. Donnelley & Sons Company. 584,963, Jan. 19; Serial No. 600,950, published Sept. 1, 1953.

LIST OF PLANT PATENTEES

Conard-Pyle Company, The, assignee: *See*—
Meilland, Francis.
Eveleens Maarse, Dirk, Aalsmeer, Netherlands, assignor of one-third to A. Kluis, one-third to J. H. Kluis, and one-third to F. M. Kluis, Pompton Plains, N. J. Syringa vulgaris plant. 1,242, Jan. 19.
Kluis, Anthonie, assignee: *See*—
Eveleens Maarse, Dirk.
Kluis, Frits M., assignee: *See*—
Eveleens Maarse, Dirk.
Kluis, Johan H., assignee: *See*—
Eveleens Maarse, Dirk.
Meilland, Francis, Cap Azura, Cap d'Antibes, France, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 1,244, Jan. 19.
Merrill, Grant, Red Bluff, Calif. Peach tree. 1,245, Jan. 19.
Merrill, Grant, Red Bluff, Calif. Peach tree. 1,246, Jan. 19.
Podesta, John A., San Leandro, Calif. Rose plant. 1,243, Jan. 19.

LIST OF DESIGN PATENTEES

Alvarez, Cruz R., Mesilla, N. Mex. Combined receptacle holder and coaster. 171,287, Jan. 19.
Anchor Rubber Products, Inc., assignee: *See*—
Kravitz, Thomas C.
Attinger, Alvin J.: *See*—
Schmitt, Joy B., and Attinger.
Bargen, William J., Waukegan, Ill. Desk tray. 171,288, Jan. 19.
Bargen, William J., Waukegan, Ill. Desk tray. 171,289, Jan. 19.
Bender, Welcome W.: *See*—
Bergen, William B., Rauth, Michal, and Bender.
Bergen, William B., Glenarm, J. D. Rauth, Middle River, L. M. Michal, Essex, and W. W. Bender, Glenarm, assignors to The Glenn L. Martin Company, Middle River, Md. Remotely controlled airplane. 171,290, Jan. 19.
Borowitz, David, assignor to Bradley Manufacturing Company, Chicago, Ill. Electric lamp base. 171,291, Jan. 19.
Borowitz, David, assignor to Bradley Manufacturing Company, Chicago, Ill. Electric lamp base. 171,292, Jan. 19.
Boyd, William H. A., Kensington, Md. Guided missile. 171,293, Jan. 19.
Bradley Manufacturing Company, assignee: *See*—
Borowitz, David.
Braun, Julius, Chicago, Ill. Bottle. 171,294, Jan. 19.
Carlson, Arthur W., assignor to E. H. Sheldon & Co., Muskegon, Mich. Typewriter table. 171,295, Jan. 19.
Cayer, Theodore E., Taunton, Mass. Bracelet link. 171,296, Jan. 19.
Coro, Inc., assignee: *See*—
Katz, Adolph.
D'Arbeloff, Vladimir A., Riverside, Conn. Helmet. 171,297, Jan. 19.
Del Mas, Christy M., assignor to M. P. Grace, New York, N. Y. Box. 171,298, Jan. 19.
De Vilbiss Company, The, assignee: *See*—
Schmitt, Joy B., and Attinger.
General Electric Company, assignee: *See*—
Sandin, Ray C.
Grace, Michael P., assignee: *See*—
Del Mas, Christy M.
Honda, Soichiro, Toshima-ku, Tokyo, Japan. Bicycle motor. 171,299, Jan. 19.
International Harvester Company, assignee: *See*—
Ornas, Theodore, Jr.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,300, Jan. 19.
Klemann, Heinrich: *See*—
Leitz, Ludwig, and Klemann.
Kolodny, Joseph, assignee: *See*—
Story, Clarence B.
Kravitz, Thomas C., University Heights, assignor to Anchor Rubber Products, Inc., Cleveland, Ohio. Reversible floor mat. 171,301, Jan. 19.
Leitz, Ernst, G. m. b. H., assignee: *See*—
Leitz, Ludwig, and Klemann.
Leitz, Ludwig, Laufdorfweg, Wetzlar, and H. Klemann, Burgsolms, assignors to E. Leitz, G. m. b. H., Wetzlar/Lahn, Germany. Microscope. 171,302, Jan. 19.
Lyon, George A., Detroit, Mich. Wheel cover or similar article. 171,303, Jan. 19.
Marano, Herbert W., Summit, N. J., assignor to Wilson Jones Company, Chicago, Ill. Combined stapler and staple remover. 171,304, Jan. 19.
Martin, Glenn L., Company, The, assignee: *See*—
Bergen, William B., Rauth, Michal, and Bender.
Michal, Leonard M.: *See*—
Bergen, William B., Rauth, Michal, and Bender.
Modern Products Manufacturing Corporation, assignee: *See*—
Von Duyke, Harrison M.
Ornas, Theodore, Jr., Fort Wayne, Ind., assignor to International Harvester Company. Vehicle hood ornament. 171,305, Jan. 19.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 171,306, Jan. 19.
Philp, George H., Wheatridge, Colo. Pivoted tray holder. 171,307, Jan. 19.
Rauth, John D.: *See*—
Bergen, William B., Rauth, Michal, and Bender.
Sackstein, Jacob, Portsmouth, Va. Hammer head. 171,308, Jan. 19.
Sackstein, Jacob, Portsmouth, Va. Tool handle. 171,309, Jan. 19.
Sandin, Ray C., Northbrook, Ill., assignor to General Electric Company. Laundry machine. 171,310, Jan. 19.
Schaefer, William B., Cincinnati, Ohio. Money clip. 171,311, Jan. 19.
Schmitt, Joy B., Somerset, Pa., and A. J. Attinger, assignors to The De Vilbiss Company, Toledo, Ohio. Electric vaporizer. 171,312, Jan. 19.
Setzer, David H., assignor to Waldensian Hosiery Mills, Incorporated, Valdese, N. C. Lady's stocking. 171,313, Jan. 19.
Sheldon, E. H., & Co., assignee: *See*—
Carlson, Arthur W.
Siegler, Eugene G. and R. J., Marion County, Ill. Gas fired space heater. 171,314, Jan. 19.
Siegler, Raymond J.: *See*—
Siegler, Eugene G. and R. J.
Story, Clarence B., Savage, assignor of one-half to J. Kolodny, Baltimore, Md. Combination lamp and television antenna. 171,315, Jan. 19.
Traficante, Dorothy K., Minneapolis, Minn. Accordion grill. 171,316, Jan. 19.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Von Duyke, Harrison M., assignor to Modern Products Manufacturing Corporation, Wilmington, Del. Spirit level. 171,317, Jan. 19.
Waldensian Hosiery Mills, Incorporated, assignee: *See*—
Setzer, David H.
Wegele, George A., Otis, Kans. Power lawn mower. 171,318, Jan. 19.
Wilson Jones Company, assignee: *See*—
Marano, Herbert W.

678 O. G.—56a

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 19TH DAY OF JANUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A M I Incorporated, assignee: *See*—
Vanderzee, Harry H., and McCallum.

Abbe, Edward J., Cleveland Heights, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Hydraulically operated tier-lift mechanism for industrial trucks. 2,666,501, Jan. 10.

Abresch, Carel F., Stamford, Conn., assignor to General Motors Corporation. Squeezer extractor washing machine. 2,666,315, Jan. 19.

Adams, Geoffrey S., Saltsjobaden, Sweden. Device for cleaning water closet basins. 2,666,224, Jan. 19.

Adams Rite Manufacturing Company, assignee: *See*—
Collar, Frank R., and Grizzard.

Adler, John B., Grosse Ile, Mich., assignor to Shwayder Brothers, Denver, Colo. Convertible folding tray table and coffee table. 2,666,681, Jan. 19.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Wall, Monroe E.

Ahlbrecht, Arthur H.: *See*—
Husted, Donald R., and Ahlbrecht.

Ahrel, Per J. I., Sallinge, Sweden. Concentrating by freezing. 2,666,304, Jan. 19.

Air Preheater Corporation, The, assignee: *See*—
Flurschutz, Glenn E.

Air Reduction Company, Incorporated, assignee: *See*—
Clinton, Edward J., Jr.

Aktiengesellschaft Brown, Boveri & Cie, assignee: *See*—
Jaggi, Walter.

Alexander, Kenneth A., Forest Hills, Pa., assignor to Westinghouse Air Brake Company. Compressed air supply system. 2,666,568 Jan. 19.

Alexander, William R., O. E. Williams, H. H. Dawson, and H. K. Bentz, Columbus, Ohio, assignors, by mesne assignments, to L. L. Mack, Stamford, Conn. Machine for the correction of posture and normalization of weight. 2,666,429, Jan. 19.

Alf, Fritz: *See*—
Seulen, Gerhard, and Alf.

Alizon, Etienne G., La Celle-Saint-Cloud, France. Switching system. 2,666,810, Jan. 19.

Alizon, Etienne, La Celle Saint-Cloud, France. Selector switch for telephonic or other commutation systems. 2,666,811, Jan. 19.

Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Dreyfus Ludwig.

Alperstein, Harry, Belle Harbor, N. Y. Extendable table with foldable leaves. 2,666,680, Jan. 10.

Alsterberg, Carl E.: *See*—
McLaren, Ian H., and Alsterberg.

Alter, Albert R., assignor to Philco Corporation, Philadelphia, Pa. Automatic frequency control for carrier-wave receivers. 2,666,847, Jan. 19.

Altvater, Adolf H., Chesterfield, assignor to Western Supplies Company, St. Louis, Mo. Die set and method of shaping the back portions and top lines of shoes. 2,666,218, Jan. 19.

Amberg, Walter E., Chicago, Ill. Speed reducer. 2,666,345, Jan. 19.

Ambler, Geoffrey H., assignor to Ambler Superdraft Limited, Ilkley, England. Pressure-applying device for the drafting rollers of drafting apparatus. 2,666,232, Jan. 19.

Ambler Superdraft Limited, assignee: *See*—
Ambler, Geoffrey H.

American Bagel Machine Co., Inc., assignee: *See*—
Gendler, Louis, and Lazar.

American Box Board Company, assignee: *See*—
Anderson, Wilbur G., Jr.

American Car and Foundry Company, assignee: *See*—
Ericson, George R.

American Cyanamid Company, assignee: *See*—
Curtis, Gerard W., and De Lorenzo.

American Hardware Corporation, The, assignee: *See*—
Teich, Ernest L.
Welch, Nicholas A.

American Metal Products Company, assignee: *See*—
Flint, Hyland C.

American Optical Company, assignee: *See*—
Boone, Philip.
Miller, Joseph V., and Reed.
Tillyer, Edgar D.

American Phenolic Corporation, assignee: *See*—
Klostermann, Curt W.

American Safety Razor Corporation, assignee: *See*—
Butlin, Charles E.

American Steel Foundries, assignee: *See*—
Bachman, Fred E.
Kayler, Frank H.

American Viscose Corporation, assignee: *See*—
McGraw, Vincent G.

Ames, Robert G., assignor of one-half to G. W. Williams and one-fourth to S. Ames, Burlingame, Calif. Mastic-applying and finishing tool. 2,666,323, Jan. 19.

Ames, Stanley, assignee: *See*—
Ames, Robert G.

Ammerman, Cecil L., Minneapolis, Minn. Ventilator. 2,666,378, Jan. 19.

Anchor Hocking Glass Corporation, assignee: *See*—
Stover, Harry E.

Anderson, Rolf L., Montclair, N. J., and O. F. Blom, New York, N. Y. Flexible dust pan. 2,666,309, Jan. 19.

Anderson, Walter J.: *See*—
Pelletier, Lawrence, Anderson, and Fener.

Anderson, Wilbur G., Jr., assignor to American Box Board Company, Grand Rapids, Mich. Collapsible floor display stand. 2,666,531, Jan. 19.

Angier Corporation, assignee: *See*—
Dearborn, Ernest R.

Anglo-Iranian Oil Company Limited, assignee: *See*—
Wirth, Max M., and Oldham.
Withers, John G., Hulf, and Rubach.

Anstalt für die Entwicklung von Erfindungen und gewerblichen Anwendungen "Energa," assignee: *See*—
Brandt, Edgar W.

Antosh, John G., Rhinelander, Wis. Rotary cutter. 2,666,485, Jan. 19.

Armour and Company, assignee: *See*—
Cornwell, Earl D.

Armour Research Foundation of Illinois Institute of Technology, assignee: *See*—
Camras, Marvin.

Armstrong Cork Company, assignee: *See*—
Barsy, Imre J.

Armstrong, Daniel A., Thiensville, Wis., and W. J. Raleigh, Roseville, assignors to Scott-Atwater Manufacturing Company, Minneapolis, Minn. Gas tank structure. 2,666,550, Jan. 19.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Boeck, Gunther A., and Howard.
Codier, Ernest O.
Johnson, Guy D., Jr.
Steinberg, George M.

Arthur, Paul, Jr., and B. C. Pratt, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrogen cyanide-cobalt carbonyl reaction product. 2,666,748, Jan. 19.

Arthur, Paul, Jr., and B. C. Pratt, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrocyanation of olefinic compounds. 2,666,780, Jan. 19.

Associated Spring Corporation, assignee: *See*—
Stewart, Elliott W.

Astleford, Grant R., Minneapolis, Minn. Bottle holder. 2,666,613, Jan. 19.

Atteberry, Newton L., Mendon, Mo. Combine platform having rotary cutting means. 2,666,287, Jan. 19.

Attig, John B., Bridgeport, Conn. Gauge. 2,666,265, Jan. 19.

Auburn Machine Works, Inc., assignee: *See*—
McIninch, Glenn W.

Audemar, Pierre, Villesnes, assignor, by mesne assignments, to O. Marine, Paris, France. Packing device. 2,666,659, Jan. 19.

Aust, Robert J., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Spiral tuner. 2,666,906, Jan. 19.

Austin, Bascum O., and R. D. Jessee, Lima, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric power system for aircraft. 2,666,871, Jan. 19.

Austin, Bascum O., R. D. Jessee, and C. A. Stump, Jr., Lima, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric power system for aircraft. 2,666,872, Jan. 19.

Automatic Electric Laboratories, Inc., assignee: *See*—
Bleg, John H.

Automatic Roll Machine Company, Inc., assignee: *See*—
Budny, Bernard S.

Avco Manufacturing Corporation, assignee: *See*—
Hill, George B.

Avery, Robert T., Oakland, Calif., assignor to United States of America as represented by the United States Atomic Energy Commission. Rapid operation air lock for closed vessels. 2,666,539, Jan. 19.

Aydlett, Guy D.: *See*—
Yutzy, Henry C., and Aydlett.

Babcock, Vearne C., Deland, Fla., assignor to Kattu Project, Inc., Forest Hills, N. Y. Boat hull. 2,666,406, Jan. 19.

Babernitsh, Joseph, Vaux Hall, N. J. Combined fuse tester and flashlight. 2,666,894, Jan. 19.

Bachman, Fred E., St. Louis, Mo., assignor to American Steel Foundries, Chicago, Ill. Brake head balancing device. 2,666,506, Jan. 19.

Bachus, Benson F., Westchester, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Fourdrinier type machine for applying pulp insulation to wires. 2,666,370, Jan. 19.

Badenoch, Benjamin W., Los Angeles, Calif., assignor of one-half to McGraw Electric Company, Elgin, Ill. Cooking device for cooking batters. 2,666,380, Jan. 19.

Badische Anilin- & Soda-Fabrik Aktiengesellschaft, assignee: *See*—
Ebel, Friedrich.
Hopff, Heinrich, and Spaenig.
Krzikalla, Hans.

Badran, Nasry, Heliopolis, Cairo, assignor to The Memphis Chemical Co., Cairo, Egypt. Demethylation of methoxy derivatives of furo-4',5',-6,7-chromones. 2,666,766, Jan. 19.

Baird, Ronald J.: *See*—
Lang, Louis, and Baird.

Baker, Gerald T., Fort Dodge, Iowa. Extension unit for tractor operated loading attachments. 2,666,540, Jan. 19.

Baker, Laurence, assignor to The General Tire and Rubber Company, Akron, Ohio. Vulcanizable composition. 2,666,755, Jan. 19.

Baldsiefen, Walter D., Metuchen, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing a light sensitive silver halide emulsion. 2,666,700, Jan. 19.

Baldwin-Lima-Hamilton Corporation, assignee: *See*—
Ruge, Arthur C.

Bale, Alton G., Jr.: *See*—
Weinfurt, William J., and Bale.

Balluff, Edwin J.: *See*—
Berno, Edward H., and Balluff.

Balz, Emil H., assignor to Glass Fibers, Inc., Waterville, Ohio. Removing starch from the binder on glass cloth. 2,666,720, Jan. 19.

Barnes, Alfred A., and R. Spurr, Syracuse, assignors to Oswego Falls Corporation, Fulton, N. Y. Mechanism for filling cartons. 2,666,565, Jan. 19.

Barsy, Imre J., Lancaster Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Temperature-sensing method and unit. 2,666,799, Jan. 19.

Bartlett, Jeffrey H., Westfield, N. J., assignor to Standard Oil Development Company. Mineral oil composition containing copolymers of itaconic acid esters and a vinyl ester of a fatty acid. 2,666,747, Jan. 19.

Barton, Loy E., Princeton, N. J., assignor to Radio Corporation of America. Construction of semiconductor devices. 2,666,874, Jan. 19.

Bash, D'Arle G., Coral Gables, Fla. Bed construction. 2,666,213, Jan. 19.

Batchelder, James W., Weathersfield, Vt., assignor, by mesne assignments, to The Economy Engineering Company, Willoughby, Ohio. Screw thread rolling machine. 2,666,349, Jan. 19.

Battersby, Robert B., Darien, Conn., assignor to PM Industries, Incorporated. Plastic cone. 2,666,599, Jan. 19.

Battersby, Robert B., Auburn, N. Y., assignor to PM Industries, Incorporated, Stamford, Conn. Treating plastic articles. 2,666,694, Jan. 19.

Baumgarten, Werner, Drexel Hill, Pa., assignor to Merck & Co., Inc. Purifying streptokinase. 2,666,729, Jan. 19.

Bayshore Industries, Inc., assignee: *See*—
Mafko, Rudolf.

Beachler, Edward D., assignor to Beloit Iron Works, Beloit, Wis. Suction press assembly. 2,666,371, Jan. 19.

Beams, Jesse W., and H. S. Morton, Jr., Charlottesville, Va., assignors to the United States of America as represented by the Secretary of the Navy. Transmission line Kerr cell. 2,666,363, Jan. 19.

Bean, Frederick R.: *See*—
Kridel, Donald J., Benn, and Rogers.

Bechtol, Lewis D., Burket, Ind. Spray type washing machine. 2,666,439, Jan. 19.

Bechtold, James H., B. Lustman, and H. Scott, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Producing ductile molybdenum. 2,666,721, Jan. 19.

Beck, Morris B., Woodsburgh, N. Y., assignor to Products Designs Co., Fairhaven, N. J. Lighting fixture. 2,666,844, Jan. 19.

Beck, Rudolf, and . S. Beipedio, Fairfield, Conn., assignors to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Thermometer case. 2,666,328, Jan. 19.

Beeken, Arnold H., Tacoma, Wash. Device for husking coconuts. 2,666,465, Jan. 19.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Graham, Robert E., and Mattke.
Juley, Joseph P.
Kircher, Reymond J.
Raisbeck, Gordon.
Raisbeck, Gordon, and Wallace.
Shockley, William.
Stibitz, George R.

Bell, William B., Atlanta, Ga., assignor of one-third to E. T. Newton and G. M. Hopkins. Power transmission mechanism. 2,666,342, Jan. 19.

Beller, Hans, Cranford, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Preparing iron powder of improved electromagnetic properties. 2,666,724, Jan. 19.

Bellier, Jean: *See*—
Coyne, André, Gélin, and Bellier.

Beloit Iron Works, assignee: *See*—
Beachler, Edward D.

Belpedio, Vincent S.: *See*—
Beck, Rudolf, and Belpedio.

Bender, Robert W., Johnson County, assignor to R. Zimmerman, Lawrence, Kans. Indexing apparatus for printing presses. 2,666,385, Jan. 19.

Bendix Aviation Corporation, assignee: *See*—
Blanchard, Allen W.
De Voll, Ralph L., and Onia.
Jaquith, John S.
Laucks, Howard H.
Lynn, Howard F.
McLaren, Ian H., and Alsterberg.
Teague, Walter D., Jr.
Troeger, Henry, and Flanagan.

Bengtsson, Bertil S., assignor to The Hart Manufacturing Company, Hartford, Conn. Magnetic relay with special armature mounting means. 2,666,826, Jan. 19.

Bent, Arthur J., Pittsburgh, Pa., assignor to Westinghouse Air Brake Company. Control apparatus for combined fluid compressors and free piston machines. 2,666,569, Jan. 19.

Bentz, Howard K.: *See*—
Alexander, William R., Williams, Dawson, and Bentz.

Beren, Irvin B., Dallas, Tex. Necktie rack. 2,666,530, Jan. 19.

Berg, Harry: *See*—
Dim, Jacob, and Berg.

Bergstrom, Eric V., Short Hills, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for hydrocarbon conversion. 2,666,731, Jan. 19.

Berman, Samuel, Hartford, Conn. Infant's garment. 2,666,203, Jan. 19.

Berno, Edward H., Plymouth, and E. J. Balluff, Farmington, Mich. Brake. 2,666,504, Jan. 19.

Berry, Earl E., Dayton, Ohio. Indexing valve. 2,666,450, Jan. 19.

Berthiez, Charles W., La Cote Bizy Vernon, France. Mounting of rotating horizontal tables in machine tools. 2,666,367, Jan. 19.

Bertram, William C., St. Louis, Mo. Awning with movable louvers. 2,666,237, Jan. 19.

Bethlehem Steel Company, assignee: *See*—
Epstein, Samuel, and Cutler.

Beu, Eric R., Albion, N. Y. Recovering esters and other volatile components. 2,666,707, Jan. 19.

Bieg, John H., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Method of and apparatus for winding coils in pairs with a continuous strand of wire. 2,666,592, Jan. 19.

Biggert, Florence C., Jr., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Control system for hydraulic presses. 2,666,292, Jan. 19.

Billig, Ralph B.: *See*—
Ziskin, Manuel S., and Billig.

Bing, Herbert A., Wellesley, Mass., assignor to Eastman Kodak Company, Rochester, N. Y. Film metering tape control system for camera film winds. 2,666,375, Jan. 19.

Birch, James E., Wolverhampton, England. Means for crating or boxing bottles and for removing bottles from crates or boxes. 2,666,562, Jan. 19.

Birtman Electric Company, assignee: *See*—
Howard, Frank S.

Black-Clawson Company, The, assignee: *See*—
Staege, Stephen A., and Pearson.

Blanchard, Allen W., Allendale, assignor to Bendix Aviation Corporation, Teterboro, N. J. Altitude compensated control system and apparatus for aircraft engines. 2,666,489, Jan. 19.

Blanchard, Joseph E., assignor to Watson-Williams Manufacturing Company, Millbury, Mass. Yarn tensioning device for loom shuttles. 2,666,456, Jan. 19.

Blanchard, Paul Paris, France. Drying refractory linings of furnaces. 2,666,270, Jan. 19.

Blank, Robert E.: *See*—
Grummitt, Oliver J., Blank, and Schwarz.

Blessing, William J.: *See*—
Kenworthy, Clarence S., and Blessing.

Blom, Otto F.: *See*—
Anderson, Rolf L., and Blom.

Bloom, Louis B., Fort Collins, Colo. Hydraulic jack system for automobiles. 2,666,619, Jan. 19.

Boeck, Gunther A., Mountain Lakes, N. J., and E. J. Howard, Flushing, N. Y., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Army. Gear system. 2,666,344, Jan. 19.

Boeing Airplane Company, assignee: *See*— Wilson, Ted R.

Boetel, Erich W., Hamburg, Germany. Electric hearing pad. 2,666,839, Jan. 19.

Bojner, Gustav, Stockholm, Sweden. Rotary drier, kiln, and the like. 2,666,633, Jan. 19.

Bonham, Alvin B., Pomona, Calif. Basketball goal attaching means. 2,666,641, Jan. 19.

Boni, Alessandro, Rome, Italy. Permutatively operable keyboard and character selecting mechanism for writing machines. 2,666,516, Jan. 19.

Boone, Philip, Winchester, assignor to American Optical Company, Southbridge, Mass. Variable light-modifying device for phase contrast. 2,666,361, Jan. 19.

Boots, Arthur A., Columbia, assignor to Cafa-Roll, Inc., Carthage, Mo. Food serving conveyer. 2,666,519, Jan. 19.

Borkowski, Casimer J., Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Survey instrument. 2,666,865, Jan. 19.

Bossert, Norman K., and T. Wagner, assignors of one-third to E. C. Reimche, Lodi, Calif. Seat back rest. 2,666,474, Jan. 19.

Bouchard, Gaston R., Bongival, France. Universal joint device. 2,666,308, Jan. 19.

Bowman, Hyman D., Raleigh, N. C. Well heater. 2,666,487, Jan. 19.

Bowman, Hyman R., Raleigh, N. C. Illuminated electric razor frame. 2,666,842, Jan. 19.

Boyd, Thomas, Springfield, and R. M. Dickey, North Wilbraham, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. New catalytic process for the polymerization of ethylene. 2,666,756, Jan. 19.

Boyd, Thomas, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Polymeric titanium ester anhydrides. 2,666,772, Jan. 19.

Boyle, James M.: *See*— Mullen, Leo V., Jr., and Boyle.

Bradley, Schuyler L., Pittsburgh, Pa., and N. Nichols, Southgate, Calif., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Static minimum excitation system for alternators. 2,666,885, Jan. 19.

Brandt, Adrianus, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Readjustable mechanical gauge. 2,666,264, Jan. 19.

Brandt, Edgar W., Geneva, Switzerland, assignor to Anstalt für die Entwicklung von Erfindungen and gewerblichen Anwendungen "Energa," Vaduz, (Liechtenstein). Safety device for projectiles. 2,666,390, Jan. 19.

Branson Instruments, Inc., assignee: *See*— Branson, Norman G.

Branson, Norman G., assignor to Branson Instruments, Inc., Stamford, Conn. Rail flaw detection device. 2,666,862, Jan. 19.

Brennan, Elmer W., Carpentersville, assignor to The Pure Oil Company, Chicago, Ill. Lubricating compositions. 2,666,743, Jan. 19.

Brewster Company, The, assignee: *See*— Carmichael, James T.

Briggs, Rollin H.: *See*— Robinson, Harold A., and Briggs.

British Oxygen Company Limited, The, assignee: *See*— Schuftan, Paul M.

Brondie, Alfred D., and G. D. Hoyal, Amarillo, Tex. Folding high chair. 2,666,475, Jan. 19.

Brockway, Charles E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparing alkyl esters of acrylic acids. 2,666,782, Jan. 19.

Brodbeck, Almer H., Webster Groves, assignor to Magic Chef, Inc., St. Louis, Mo. Food conditioner for cooking ranges. 2,666,837, Jan. 19.

Brody, David, assignor to Van Brode Milling Co., Inc., Clinton, Mass. Fuel packages. 2,666,695, Jan. 19.

Brooker, Leslie G. S.: *See*— Heseltine, Donald W., and Brooker.

Brown, Lute, Fairmont, W. Va. Saw sharpening machine. 2,666,346, Jan. 19.

Brownyer, Nelson R., Birmingham, Mich., assignor, by mesne assignments, to Rockwell Spring and Axle Company, Coraopolis, Pa. Multispeed drive mechanism. 2,666,337, Jan. 19.

Brumhill, Claude W., Leicester, and A. Pateman, Rothley, assignors to The Imperial Typewriter Company Limited, Leicester, England. Plural keyboard typewriting machine. 2,666,515, Jan. 19.

Bruning, Earl F., Lincoln, Nebr. Breakaway coupling for fluid conduits. 2,666,656, Jan. 19.

Bryant, Austin U.: *See*— Grove, Marvin H., and Bryant.

Budny, Bernard S., assignor to Automatic Roll Machine Company, Inc., New York, N. Y. Machine for applying shredded material to bakery products. 2,666,410, Jan. 19.

Buick, John A., Norfolk, Va. Drafting instrument. 2,666,261, Jan. 19.

Bunch, Tillman T., Ashland, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Brake for strand handling apparatus. 2,666,289, Jan. 19.

Burgess Battery Company, assignee: *See*— Kurlandsky, Sam.

Burkhard, William C., Jr., Towson, and N. W. Magyar, Baltimore, assignors to The Glenn L. Martin Company, Middle River, Md. Waterproof switch assembly. 2,666,829, Jan. 19.

Burr, Ned, Homewood, and F. Drueck, Jr., Chicago, Ill., assignors to Chicago Cardboard Company. Collapsible birdhouse. 2,666,414, Jan. 19.

Bury Compressor Company, assignee: *See*— Carney, Fred J.

Busch, Lee S.: *See*— Dickinson, Robert H., and Busch.

Bussard, Kyffin T., deceased, Albany, Oreg., W. Ruthruff, executor of said K. T. Bussard, assignor to R. D. Bussard, Albany, Oreg. Basket cover. 2,666,482, Jan. 19.

Bussard, R. D., assignee: *See*— Bussard, Kyffin T.

Butler, Edward S., Chadderton, Oldham, and A. Sutcliffe, Werneth, Oldham, assignors to Platt Brothers and Company Limited, Oldham, England. Safety device for looms for weaving tufted pile fabrics. 2,666,458, Jan. 19.

Butlin, Charles E., Plattsburg, assignor, by mesne assignments, to American Safety Razor Corporation, Brooklyn, N. Y. Injector razor. 2,666,257, Jan. 19.

Byerley, Wilbur M., Crum Lynne, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Heat exchange apparatus. 2,666,625, Jan. 19.

Cafa-Roll, Inc., assignee: *See*— Boots, Arthur A.

Cahn, Robert P., Elizabeth, and L. D. Etherington, Cranford, N. J., assignors to Standard Oil Development Company. Adsorption process. 2,666,500, Jan. 19.

California Institute Research Foundation, assignee: *See*— Gow, Kenneth P., and Klein, Dixon, Joseph A.

Campbell, Richard D., Brookmont, Md., assignor to Reed Research Inc., Washington, D. C. Transducer. 2,666,861, Jan. 19.

Camras, Marvin, assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill. Magnetic duplicating method and means. 2,666,813, Jan. 19.

Candor, Robert R., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Squeezer extractor washing machine. 2,666,316, Jan. 19.

Cannon, Frank H., Chatswood, New South Wales, Australia, and A. A. Kirchel, Beckenham, assignors to Muirhead & Company Limited, Elmers End, Beckenham, England. Checking and control arrangement for facsimile telegraph apparatus. 2,666,821, Jan. 19.

Capper, Lois S., Los Angeles, Calif. Knitted garment construction. 2,666,314, Jan. 19.

Carlile, Alfred E., Brooklyn, N. Y., assignor, by mesne assignments, to Talon, Inc. Manufacture of slide fasteners. 2,666,251, Jan. 19.

Carlson, Carl H., N. R. Frieberg, and O. F. Larsen, Ithaca, N. Y., assignors to The National Cash Register Company, Dayton, Ohio. Calculating machine having true negative totals mechanism. 2,666,574, Jan. 19.

Carlson, Carl S.: *See*— Morrell, Charles E., Carlson, and Porter.

Carmichael, James T., assignor to The Brewster Company, Shreveport, La. Drilling hook bill safety latch. 2,666,244, Jan. 19.

Carney, Fred J., assignor to Bury Compressor Company, Erie, Pa. Piston. 2,666,678, Jan. 19.

Carniol, Bohdan, assignor to Tesla slaboproude a radiotechnicke zavody, narodni podnik, Prague, Czechoslovakia. Frequency generator with phase shifter. 2,666,851, Jan. 19.

Carter, Alfred D. S.: *See*— Davidson, Ivor M., and Carter.

Casa-Massa, Mario, New York, N. Y. Differential mechanism. 2,666,343, Jan. 19.

Casey, Carl, assignee: *See*— Poole, Foster M., and Paslay.

Caterpillar Tractor Co., assignee: *See*— Deffenbaugh, John L.

Celanese Corporation of America, assignee: *See*— Denyes, Russell O. Robertson, Nat C., and Walker.

Central Commercial Industries, Inc., assignee: *See*— Pelletier, Lawrence, Anderson, and Fener.

Cervone, Joseph, assignee: *See*— Ruiz, Raymond R., and Smith.

Chabay, Marcel R. A., Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland. Compressor. 2,666,571, Jan. 19.

Chadkewicz, Alexander: *See*— Nims, Paul T., and Chadkewicz.

Chadwick, Alexander: *See*— Nims, Paul T., and Chadkewicz.

Chalom, Joseph A., Paris, France. Nozzle for expansion and compression of gases. 2,666,279, Jan. 19.

Chamer, Ernest S., Fairfield, Conn., assignor to Handy & Harman, New York, N. Y. Brazing flux. 2,666,725, Jan. 19.

Chance, Britton, Cambridge, and I. A. Greenwood, Jr., Boston, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Radio course indicating system. 2,666,914, Jan. 19.

Chapin, William T., Baldwinsville, N. Y., assignor to General Electric Company. Cathode-follower impedance matching device. 2,666,815, Jan. 19.

Chemical Foundation, Incorporated, The, assignee: *See*— Hixson, Arthur W., and Miller.

Chemstrand Corporation, The, assignee: *See*— Lytton, Marion R.

Chenicek, Joseph A.: *See*— Rosenwald, Robert H., and Chenicek.

Chenicek, Joseph A., Bensenville, assignor to Universal Oil Products Company, Chicago, Ill. Maintaining stability of vegetable oils undergoing heating. 2,666,708, Jan. 19.

Chicago Cardboard Company, assignee: *See*— Burr, Ned, and Drueck.

Chicago Metal Mfg. Co., assignee: *See*— Hauf, George F.

Chisholm, Allen E., Portland, Oreg. Shock absorbing cable hanger. 2,666,605, Jan. 19.

Chow, Ho, New York, N. Y. Tape dispenser. 2,666,544, Jan. 19.

Christian, Raymond A., J. R. Ganger, J. H. Crawford, and H. C. Johnson, assignors to The National Cash Register Company, Dayton, Ohio. Tabulating mechanism for accounting machines. 2,666,517, Jan. 19.

Chrysler Corporation, assignee: *See*— Nims, Paul T., and Chadkewicz.

Ciba Pharmaceutical Products, Incorporated, assignee: *See*— Lanzilotti, Anthony E., Shabica, and Ziegler.

Cicero, Frank, Los Angeles, Calif. Playing card dealing device. 2,666,646, Jan. 19.

Clarke Sanding Machine Company, assignee: *See*— Petersen, William L.

Clarvoe, George W., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Self-sealing shingle. 2,666,402, Jan. 19.

Clayborne Manufacturing Company, assignee: *See*— Clayborne, Norman F.

Clayborne, Norman F., assignor to Clayborne Manufacturing Company, Chicago, Ill. Gear assembly. 2,666,335, Jan. 19.

Cleaver-Brooks Company, assignee: *See*— Loebel, Frederick A.

Clinton, Edward J., Jr., Chatham, N. J., assignor to Air Reduction Company, Incorporated. Gaseous fuel cutting torch with reversibly positioned valve lever. 2,666,479, Jan. 19.

Clogston, Albert M., New York, N. Y., and A. G. Smith, Durham, N. C., assignors, by mesne assignments, to United States of America as represented by the Secretary of War. Magnetron output coupling system. 2,666,869, Jan. 19.

Cochran, Charles W., Jr., Aldan, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Breech operating mechanism. 2,666,365, Jan. 19.

Codier, Ernest O., Takoma Park, Md., assignor to the United States of America as represented by the Secretary of the Army. Crystal controlled clutch. 2,666,512, Jan. 19.

Coit, Burton C., Jr., assignor to Tri-State Engineering Company, Washington, Pa. Crate for use with lift-fork trucks. 2,666,552, Jan. 19.

Cole, Bradford H.: *See*— Sherman, Vernon C., and Cole.

Collar, Frank R., and E. D. Grizzard, Los Angeles, assignors to Adams Rite Manufacturing Company, Glendale, Calif. Door lock. 2,666,321, Jan. 19.

Collins, Ernest H., Kelso, assignor to Weyerhaeuser Timber Company, Longview, Wash. Method and apparatus for measuring moisture content. 2,666,897, Jan. 19.

Collins, Francis N., Washington, D. C. Cleaning apparatus. 2,666,440, Jan. 19.

Collins, Harry J., assignor to David White Company, Milwaukee, Wis. Stereoscopic viewer. 2,666,359, Jan. 19.

Collins, Harry J., assignor to David White Company, Milwaukee, Wis. Stereoscopic viewer. 2,666,360, Jan. 19.

Colton, Frank B., assignor to G. D. Searle & Co., Chicago, Ill. 17-glycolyl-estradiols. 2,666,769, Jan. 19.

Colton, Roger B., E. Labin, and G. A. Deschamps, New York, N. Y., assignors to Federal Telecommunication Laboratories, Incorporated, Nutley, N. J. Two-way communication system. 2,666,845, Jan. 19.

Columbus McKinnon Chain Corporation, assignee: *See*— Richards, Sherman L., and Devonshire.

Commonwealth Engineering Company of Ohio, assignee: *See*— Hiler, Malvern J.

Compagnie Generale d'Electricite, assignee: *See*— Guelpa, Jean P.

Condon, Francis E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Olefin isomerization. 2,666,798, Jan. 19.

Cook, Ernest E.: *See*— Sadler, Harry J., and Cook.

Cooley, Austin G., assignor to Times Facsimile Corporation, New York, N. Y. Facsimile machine. 2,666,808, Jan. 19.

Cooper, Lyle M., Rahway, N. J., assignor to the United States of America as represented by the Secretary of War. Fuze. 2,666,389, Jan. 19.

Coover, Harry W., Jr.: *See*— Dickey, Joseph B., and Coover.

Copper Research, assignee: *See*— Furness, William H.

Cornwell, Earl D., Downers Grove, assignor to Armour and Company, Chicago, Ill. Sticker composition for insecticides and fungicides. 2,666,712, Jan. 19.

Council of Scientific and Industrial Research, assignee: *See*— Siddiqui, Salimuzzaman, and Dhar.

Coyne, André, J. Géhin, and J. Bellier, Paris, France. Dam. 2,666,296, Jan. 19.

Crane & Breed Casket Company, The, assignee: *See*— Slaughter, Bernard J., Jr.

Crawford, James H.: *See*— Christian, Raymond A., Ganger, Crawford, and Johnson.

Cronkhite, John T., Tulsa, Okla. Device for controlling flow in pipe lines. 2,666,445, Jan. 19.

Crosset Company, The, assignee: *See*— Crosset, Richard B.

Crosset, Richard B., assignor to The Crosset Company, Cincinnati, Ohio. Method and apparatus for processing leafy vegetables. 2,666,711, Jan. 19.

Crown Zellerbach Corporation, assignee: *See*— King, Glengarry D., and Harkema.

Culver, Perrin C., South Gate, and J. G. Kelly, Los Angeles, Calif.; said Culver assignor to said Kelly. Perlite popping furnace. 2,666,632, Jan. 19.

Currie, Chester C.: *See*— Hommel, Maurice C., and Currie.

Curtis, Gerard W., Edgewater, and S. A. De Lorenzo, Lawrence Township, Mercer County, N. J., assignors, by mesne assignments, to American Cyanamid Company, New York, N. Y. Insoluble methyl-benzodiazepin salts of penicillin. 2,666,760, Jan. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Derivatives of 3-amino-2,3-dihydroxythionaphthene-1,1-dioxide and preparing the same. 2,666,762, Jan. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Derivatives of 3-amino-2,3-dihydrothionaphthene-1,1-dioxide. 2,666,763, Jan. 19.

Cutler, Herbert J.: *See*— Epstein, Samuel, and Cutler.

Dale, Colin B., Oak Park, assignor to Webster-Chicago Corporation, Chicago, Ill. Adapter for phonograph records. 2,666,647, Jan. 19.

Dale, Colin B., Oak Park, assignor to Webster-Chicago Corporation, Chicago, Ill. Adapter for phonograph spindles having internally powered record push-off mechanism. 2,666,648, Jan. 19.

Danyluke, Ostap, assignor to Pennsylvania Crusher Company, Philadelphia, Pa. Screen bar. 2,666,589, Jan. 19.

Dart, Russel S., Middle Haddam, Conn. Line dividing mechanism for conveyers. 2,666,513, Jan. 19.

Dasch, Benno, Quito, Ecuador, assignor of one-half to Transamerican Mercantile Corporation, New York, N. Y. Lamellas for tractor wheels. 2,666,469, Jan. 19.

Davenport, Frank E.: *See*— McQuiston, Raymond C., and Davenport.

Davidson, Ivor M., and A. D. S. Carter, Farnborough, assignors to Power Jets (Research and Development) Limited, London, England. Gaseous fluid flow system. 2,666,453, Jan. 19.

Davis, Albert P., Haddon Heights, N. J. Retractable wind scoop. 2,666,604, Jan. 19.

Davis, Austin E., Nashua, N. H., assignor to Nashua Corporation. Preparation of sheet material with remoistenable gum coating. 2,666,718, Jan. 19.

Davis, Elwood A.: *See*— Hopkins, George W., Davis, and Zickler.

Davis, Ernest, and R. D. McCallum, assignors to The Prosperity Company, Inc., Syracuse, N. Y. Two electric motor power unit. 2,666,863, Jan. 19.

Davis, John W., Lawndale, assignor to R. Lane and R. S. Groman, doing business as Television Accessories, Los Angeles, Calif. Antenna network. 2,666,846, Jan. 19.

Dawson, Harold H.: *See*— Alexander, William R., Williams, Dawson, and Bentz.

Dean, Karl C.: *See*— Schack, Carl H., and Dean.

Dean, William R., Torrington, Wyo. Drawer seat. 2,666,473, Jan. 19.

Dearborn, Ernest R., Ashland, assignor to Angier Corporation, Framingham, Mass. Wrapping machine for irregularly curved articles. 2,666,283, Jan. 19.

Deckel, Friedrich W., assignee: *See*— Zwick, Kurt.

Deckel, Hans, assignee: *See*— Zwick, Kurt.

Deffenbaugh, John L., assignor to Caterpillar Tractor Co., Peoria, Ill. Track roller. 2,666,674, Jan. 19.

De Lorenzo, Sylvio A.: *See*— Curtis, Gerard W., and De Lorenzo.

Denyes, Russell O., Maplewood, N. J., assignor to Celanese Corporation of America, New York, N. Y. Spin bath treatment. 2,666,684, Jan. 19.

Deschamps, Georges A.: *See*— Colton, Roger B., Lubin, and Deschamps.

Detroit Stoker Company, assignee: *See*— Kessler, Wilbur.

Deutsche Edelstahlwerke Atkiengesellschaft, assignee: *See*— Seulen, Gerhard, and Alf.

De Voll, Ralph L., Grosse Pointe, and J. Onia, Berkeley, assignors to Bendix Aviation Corporation, Detroit, Mich. Apparatus for testing Geiger tubes. 2,666,890, Jan. 19.

Devonshire, William H.: *See*—
Richards, Sherman L., and Devonshire.

Dewas, Raymond, Amiens, France. Temple for weaving looms. 2,666,457, Jan. 19.

Dhar, Digish C.: *See*—
Siddiqui, Salimuzzaman, and Dhar.

Diaz, Domingo O., Phoenix, Ariz. Latigo rigging for saddles having skirts. 2,666,285, Jan. 19.

Dickey, Joseph B., and H. W. Coover, Jr., Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Polymeric phosphonic acid diamides. 2,666,750, Jan. 19.

Dickey, Robert M.: *See*—
Boyd, Thomas, and Dickey.

Dickinson, Robert H., and L. S. Busch, assignors, by mesne assignments, to Mallory-Sharon Titanium Corporation, Indianapolis, Ind. Alloys of titanium containing aluminum and iron. 2,666,698, Jan. 19.

Dim, Jacob, and H. Berg, St. Paul, Minn. Sealing assembly. 2,666,354, Jan. 19.

Distillers Company Limited, The, assignee: *See*—
Munday, Charles W.

Diuble, Harold F., Ann Arbor, Mich. Coupling device with guide means. 2,666,653, Jan. 19.

Dixie Cup Company, assignee: *See*—
Hill, Howard.

Dixon, Joseph A., Berkeley, assignor to California Research Corporation, San Francisco, Calif. Sulfurized grease compositions. 2,666,744, Jan. 19.

Doeg, Ralph W., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Mounting refrigerating apparatus. 2,666,301, Jan. 19.

Dole Valve Company, The, assignee: *See*—
Lund, James K.

Dolezal, Edward, H. L. Hays, G. W. McCullough, and K. H. Hachmuth, Bartlesville, Okla., assignors to Phillips Petroleum Company. Catalytic reactor tube assembly. 2,666,692, Jan. 19.

Dondero, Joseph: *See*—
Ferrario, John J., and Dondero.

Dooley, Arthur F., Salem, assignor to Jordan Marsh Company, Boston, Mass. Sorting system. 2,666,535, Jan. 19.

Dooley, Arthur F., Manchester, assignor to Jordan Marsh Company, Boston, Mass. Sorting system. 2,666,537, Jan. 19

Dooley, Arthur F., Manchester, assignor to Jordan Marsh Company, Boston, Mass. Sorting system. 2,666,538, Jan. 19.

Dorfman, Hiller D.: *See*—
Dyer, Lloyd W., and Dorfman.

Dorfman, Hiller D., Beaver, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,666,824, Jan. 19.

Dow Chemical Company, The, assignee: *See*—
Robinson, Harold A., and Briggs.

Dow Corning Corporation, assignee: *See*—
Hommel, Maurice C., and Currie.

Drain, Walter H., Hermosa Beach, Calif. Accessory for power transportation of chain saws. 2,666,460, Jan. 19.

Drew, E. F., & Co., Inc., assignee: *See*—
Valko, Emery I.

Dreyfus, Ludwig, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Method and furnace for heating bars to be forged by means of eddy currents. 2,666,830, Jan. 19.

Drueck, Fred, Jr.: *See*—
Burr, Ned, and Drueck.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Arthur, Paul, Jr., and Pratt.
Baldsiefen, Walter D.
Jelinek, Arthur G.
Johnson, John R.
Ulich, Lynne H., and Waldron.
Weinmayr, Viktor.

Dustman, William S.: *See*—
Riley, Joseph J., and Dustman.

Dyer, Lloyd W., and H. D. Dorfman, Beaver, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,666,828, Jan. 19.

E & J Manufacturing Co., assignee: *See*—
Stanton, Philip L.

Earth Equipment Corporation, assignee: *See*—
Everett, Woodrow W.

Eash, George H., assignor to G. H. Poulsen, Toledo, Ohio. Combined sound reproducer and projector apparatus. 2,666,358, Jan. 19.

Eastman Kodak Company, assignee: *See*—
Bing, Herbert A.
Dickey, Joseph B., and Coover.
Heseltine, Donald W., and Brooker.
Hunt, Clayton E., Jr.
Jungjohann, Vernon H.
Kridel, Donald J., Bean, and Rogers.
Kridel, Donald J., and Wiitala.
Rosenburgh, Norman J., and Schoonmaker.
West, William.
Yutzy, Henry C., and Aydlett.

Easy Washing Machine Corporation, assignee: *See*—
Landwier, William G.

Eaton Manufacturing Company, assignee: *See*—
Lindeman, Edward H.

Eaton, William W.: *See*—
Woodring, William B., and Eaton.

Ebel, Friedrich, Mannheim-Feudenheim, assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen am Rhine, Germany. Production of ethylene sulfarylamides. 2,666,788, Jan. 19.

Eckman, Donald P., Ithaca, N. Y., assignor, by mesne assignments, to Minneapolis- Honeywell Regulator Company, Minneapolis, Minn. Multiple stage fluid relay. 2,666,443, Jan. 19.

Economy Engineering Company, The, assignee: *See*—
Batchelder, James W.

Eder, Louise J., executrix, assignee: *See*—
Eder, Mathias L.

Eder, Mathias L., deceased; L. J. Eder, executrix, assignor to L. J. Eder, Canton, Ohio. Ferrous alloys. 2,666,697, Jan. 19.

Edwards, Robert A., Schenectady, N. Y., assignor to General Electric Company. Calculating device. 2,666,575, Jan. 19.

Ehret, Robert J., Philadelphia, and R. F. Wernlund, Southampton, Pa., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,666,889, Jan. 19.

Eisler, Paul, assignor to Hermoplast Limited, London, England. Manufacturing electrical windings. 2,666,254, Jan. 19.

Eldh, Clarence L., Stockton, Calif. Linoleum roll lift. 2,666,595, Jan. 19.

Electric Eye Equipment Company, assignee: *See*—
Frommer, Joseph C.

Elleman, Albert J., London, England, assignor to Imperial Chemical Industries Limited. Electric resistance welding process. 2,666,835, Jan. 19.

Elwell-Parker Electric Company, The, assignee: *See*—
Abbe, Edward J.

Engel, John P., Miller Place, assignor to Sapolin Paints, Inc., New York, N. Y. Disposal of fumes by scrubbing and burning. 2,666,494, Jan. 19.

English, Thomas H., Atlanta, Ga. Centering and quadding device. 2,666,520, Jan. 19.

Enos, John P., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Hinged presser-foot. 2,666,405, Jan. 19.

Eppler, Andrew, Jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Clutch control mechanism. 2,666,511, Jan. 19.

Epstein, Samuel, Bethlehem, Pa., and H. J. Cutler, Buffalo, N. Y., assignors to Bethlehem Steel Company. Metal treatment. 2,666,722, Jan. 19.

Erco Radio Laboratories, Inc., assignee: *See*—
Goodwin, Thomas E.

Ericson, George R., Kirkwood, Mo., assignor to American Car and Foundry Company, New York, N. Y. Valve. 2,666,616, Jan. 19.

Eriesson, Eric A., Stockholm, A. O. Jorgensen, Traneberg, and S. L. Overby, assignors to Telefonaktiebolaget L. M. Eriesson, Stockholm, Sweden. Rectifier and converter using superconduction. 2,666,884, Jan. 19.

Etherington, Lewis D.: *See*—
Cahn, Robert P., and Etherington.

Everett, Woodrow W., Phoenix, Ariz., assignor, by mesne assignments, to Earth Equipment Corporation, Los Angeles, Calif. Excavator bucket tooth. 2,666,272, Jan. 19.

Fansteel Metallurgical Corporation, assignee: *See*—
Mott, Chester.

Farrell, James A., Irwin, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Pattern assembly. 2,666,239, Jan. 19.

Farrell, Lura B., Coshocton, Ohio. Cleaning swab for toilet bowls. 2,666,223, Jan. 19.

Farrell, Robert A., Menasha, assignor to Marathon Corporation, Rothschild, Wis. Interfitting lock. 2,666,567, Jan. 19.

Farrington, Robert K., Shaker Heights, T. B. Farrington, Cleveland Heights, and R. F. Kurzenberger, assignors to The Thompson Electric Company, Cleveland, Ohio. Multiple contact lamp hanger. 2,666,909, Jan. 19.

Farrington, Thayer B.: *See*—
Farrington, Robert K. and T. B., and Kurzenberger.

Federal Telecommunication Laboratories, Incorporated, assignee: *See*—
Colton, Roger B., Lubin, and Deschamps.

Fee, Earl L., Windsor, Ontario, Canada. Wheel chock. 2,666,502, Jan. 19.

Feichtinger, Hans, Duisburg-Beeck, H. Kolling, and S. Puschhof, Duisburg-Hamborn, assignors to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany. Production of sulfobenzoic acid and its salts. 2,666,785, Jan. 19.

Fener, Howard: *See*—
Pelletier, Lawrence, Anderson, and Fener.

Fernberg, Eric B., Pinner, England. Fastener. 2,666,245, Jan. 19.

Ferrario, John J., San Francisco, and J. Dondero, San Anselmo, Calif. Apparatus for lifting cylindrical objects. 2,666,541, Jan. 19.

Filmsort Inc., assignee: *See*—
Standish, Edward K.

Findlay, Robert A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Apparatus for conversion of residual oils. 2,666,734, Jan. 19.

Fisher, Martin H., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Magnetic amplifier speed regulator control. 2,666,878, Jan. 19.

Flanagan, Robert M.: *See*—
Troeger, Henry, and Flanagan.

Flanders, Roy A., Pratt, Kans. Mobile elevator for invalids. 2,666,212, Jan. 19.

Flindt, Charles L., San Jose, Calif. Sole rounding and trimming machine. 2,666,219, Jan. 19.

Flint, Hyland C., Birmingham, assignor to American Metal Products Company, Detroit, Mich. Zigzag spring seat back having alternate springs of different lengths and form. 2,666,477, Jan. 19.

Flowers, Thomas H., London, England. Electrical switching system. 2,666,809, Jan. 19.

Flurschutz, Glenn E., Wellsville, assignor to The Air Preheater Corporation, New York, N. Y. Interlocked seal for rotary regenerative preheaters. 2,666,624, Jan. 19.

Folkins, Hillis O., and E. Miller, Crystal Lake, and H. Hennig, Cary, Ill., assignors to Food Machinery and Chemical Corporation, New York, N. Y. Production of carbon disulfide. 2,666,690, Jan. 19.

Food Machinery and Chemical Corporation, assignee: *See*—
Folkins, Hillis O., Miller, and Hennig.
Zettlemoyer, Albert C., and Walker.

Food Technology, Inc., assignee: *See*—
Glabe, Elmer F.

Ford, Iat. A. M., Quinton, Birmingham, England, assignor to Standard Oil Development Company. Use of methylal to prevent emulsions in esters during the aqueous wash. 2,666,781, Jan. 19.

Ford, Ronald M., Olton, Birmingham, England. Moistening means for duplicating machines. 2,666,412, Jan. 12.

Fortner, Thelma I., Newark, N. J., assignor to Staten Frame Manufacturing Company, Inc., New York, N. Y. Flexible umbrella rib. 2,666,442, Jan. 19.

Foster, Harry C., Alton, assignor to Olin Industries, Inc., East Alton, Ill. Variable throwing angle target trap. 2,666,424, Jan. 19.

Fotopak Corp, The, assignee: *See*—
Levine, Bernard.

Frandsen, Walter N., Wichita Falls, Tex., assignor to Universal Oil Products Company, Chicago, Ill. Treating chamber. 2,666,528, Jan. 19.

Fredenburgh, Mark N., Summit, N. J., assignor to Radio Corporation of America. Treating metal powders. 2,666,696, Jan. 19.

Friden Calculating Machine Co., Inc., assignee: *See*—
Hopkins, George W., Davis, and Zickler.
Machado, Anthony B., and Pruellage.

Frieberg, Nelson R.: *See*—
Carlson, Carl H., Frieberg, and Larsen.

Friedlander, William, assignor to Mono-Cam Limited, Westminster, London, England. Fuel injection pump. 2,666,391, Jan. 19.

Frommer, Joseph C., Cincinnati, Ohio, assignor to Electric Eye Equipment Company, Danville, Ill. Web centerline control device. 2,666,639, Jan. 19.

Fua, Frederic, New York, N. Y., and R. C. Woods, Montclair, N. J., assignors to X-Ray Electronic Corporation, New York, N. Y. X-ray fluorescent response intensifier. 2,666,856, Jan. 19.

Funk, Dorothy R., Burbank, Calif. Prosthetic stocking. 2,666,208, Jan. 19.

Furness, William H., Haddonfield, N. J., assignor to Copper Research. Making stable cupric hydroxide. 2,666,688, Jan. 19.

Gacki, Leonard W., Jamaica, and W. A. Winfield, Bronx, N. Y., assignors to Xray Instrument Corporation. X-ray film cassette. 2,666,855, Jan. 19.

Gadal, Lucien V.: *See*—
Pira, Buddie L., and Gadal.

Ganger, Jesse R.: *See*—
Christian, Raymond A., Ganger, Crawford, and Johnson.

Garnier, Henri L., and R. H. Marchal, assignors to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Paris, France. Means for balancing piston engines. 2,666,418, Jan. 19.

Garretson, Owen L., and C. O. Henneman, Bartlesville, Okla., assignors to Phillips Petroleum Company. Self-sealing relief valve. 2,666,448, Jan. 19.

Gauci, Joseph, New York, N. Y., and P. J. Mueller, assignors to M. J. Rymland, Baltimore, Md. Machine for producing spring mattresses. 2,666,459, Jan. 19.

Géhin, Jean: *See*—
Coyne, André, Géhin, and Bellier.

Gemex Company, assignee: *See*—
Kuehn, Herman.

Gendler, Louis, New York, and M. Lazar, Jamaica, assignors to American Bagel Machine Co., Inc., New York, N. Y. Automatic machine for forming bagle-dough rings. 2,666,398, Jan. 19.

General Aniline & Film Corporation, assignee: *See*—
Beller, Hans.
Randall, David I., and Martin.
Richter, Ludwig.
Williams, William W., and Strobel.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Chapin, William T.
Edwards, Robert A.
Hammerly, Herman J.
Sheppard, Raymond, and Ipsen.

General Mills, Inc., assignee: *See*—
Huch, William F.
Huch, William F., and Hakomaki.

General Motors Corporation, assignee: *See*—
Abresch, Carel F.
Candor, Robert R.
Heidorn, John H.
O'Brien, William J.

General Tire and Rubber Company, The, assignee: *See*—
Baker, Laurence.
Wunderly, Harry L.

Gerlach, Carl F., Chicago, Ill., assignor to The Triplett Electrical Instrument Company, Bluffton, Ohio. Tuning device. 2,666,905, Jan. 19.

Gess, Louis, Jenkintown, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Distance adjusted pneumatic control system. 2,666,585, Jan. 19.

Geyer, Arthur N., Seattle, Wash. Belt tensioning device. 2,666,333, Jan. 19.

Gibson Refrigerator Company, assignee: *See*—
Rosebrook, Homer E.

Gispert, Humberto A., Havana, Cuba. Hip nail aiming and guiding device. 2,666,430, Jan. 19.

Glabe, Elmer F., assignor to Food Technology, Inc., Chicago, Ill. Baking compositions. 2,666,704, Jan. 19.

Glabe, Elmer F., assignor to Food Technology, Inc., Chicago, Ill. Shortening compositions and making the same. 2,666,705, Jan. 19.

Glass Fibers, Inc., assignee: *See*—
Balz, Emil H.

Glenner, Robert J., Chicago, Ill. Self-retaining cul-de-sac retractor. 2,666,428, Jan. 19.

Godsey, Frank W., Jr., and M. F. Jones, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Linear motor assembly for catapults and the like. 2,666,879, Jan. 19.

Good, Fred C., & Sons, Inc., assignee: *See*—
Good, Raymond J.

Good, Raymond J., assignor to Fred C. Good & Sons, Inc., Philadelphia, Pa. Bracket assembly for supporting yarn carriers. 2,666,312, Jan. 19.

Goodrich, B. F., Company, The, assignee: *See*—
Brockway, Charles E.
Sears, Daniel S.
Steadman, Thomas R.
Strong, Walter J., and Lindemann.

Goodwin, Thomas E., Hempstead, assignor to Erco Radio Laboratories, Inc., Garden City, N. Y. Selective audio gate circuit. 2,666,848, Jan. 19.

Gordon, Arthur, Chicago, Ill. Three-way, all-purpose drain. 2,666,493, Jan. 19.

Gordon, Arthur, Chicago, Ill. Purification of sewage. 2,666,740, Jan. 19.

Gordon, Don, Los Angeles, Calif. Cosmetic applying brush. 2,666,222, Jan. 19.

Gorin, Everett, and M. B. Neuworth, assignors to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Refining of tar acid oil. 2,666,796, Jan. 19.

Gow, Kenneth P., Pasadena, and A. L. Klein, Los Angeles, assignors to California Institute Research Foundation, Pasadena, Calif. Electrical counter. 2,666,912, Jan. 19.

Graham, Robert E., Morristown, and C. F. Mattke, Fanwood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Servo system for non-intermittentfilm projectors. 2,666,356, Jan. 19.

Graham, Robert E., Morristown, and C. F. Mattke, Fanwood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Optical system for non-intermittent film projectors. 2,666,356, Jan. 19.

Graves, Richard, Cape Coast, Gold Coast, British West Africa. Device for turning the pages of music. 2,666,353, Jan. 19.

Gravitt, Victor, Chickamauga, Ga., assignor to Page Belting Company, Concord, N. H. Picker check strap. 2,666,455, Jan. 19.

Gray, Charles E., Tolleson, assignor to Phoenix Engineering & Mfg. Company, Phoenix, Ariz. Universal bumper hitch. 2,666,654, Jan. 19.

Graybeal, Bruce A., Conowingo, Md., assignor to Johns-Manville Corporation, New York, N. Y. Fluid distributor. 2,666,444, Jan. 19.

Greenwood, Ivan A., Jr.: *See*—
Chance, Britton, and Greenwood.

Grenall, Alexander, Yorba Linda, assignor to Union Oil Company of California, Los Angeles, Calif. Polyhydroxy-ether addition compounds with metal salts. 2,666,774, Jan 19.

Griffin, Robert H., Crestwood, Yonkers, assignor to Tanners' Research Corporation, New York, N. Y. Hide treating apparatus. 2,666,317, Jan. 19.

Grizzard, Earl D.: *See*—
Collar, Frank R., and Grizzard.

Groman, Robert S., assignee: *See*—
Davis, John W.

Gross, Bernard, San Diego, assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Lead-in terminal. 2,666,804, Jan. 19.

Grove, Marvin H., Piedmont, and A. U. Bryant, Berkeley, assignors, by mesne assignments, to Grove Regulator Company, Oakland, Calif. Valve construction. 2,666,614, Jan. 19.

Grove Regulator Company, assignee: *See*— Grove, Marvin H., and Bryant.

Grumnitt, Oliver J., and R. E. Blank, Cleveland, Ohio, and H. F. Schwarz, Flossmoor, Ill., assignors to The Sherwin-Williams Company, Cleveland, Ohio. Stabilizer for halogen-containing polymers. 2,666,752, Jan. 19.

Guelpa, Jean P., Colombes, assignor to Compagnie Generale d'Electricite, Paris, France. Method of and apparatus for automatically charging accumulator batteries. 2,666,883, Jan. 19.

Gullick, Ernest D. M., Glasgow, Scotland, assignor to Mavor & Coulson, Limited. Mining machine with wedge-type cutter. 2,666,627, Jan. 19.

Hachmeister, Harry A., Pittsburgh, Pa. Parquetry design asphalt tile die. 2,666,382, Jan. 19.

Hachmuth, Karl H.: *See*— Dolezal, Edward, Hays, McCullough, and Hachmuth.

Hackett, Walter W., Oakland, Calif. Screw-adjusting tool. 2,666,350, Jan. 19.

Hagedorn, Albert E., Dayton, Ohio. Studding anchor. 2,666,238, Jan. 19.

Hakomaki, Raymond I.: *See*— Huch, William F., and Hakomaki.

Halberstadt, Joseph, assignor to Malone Bronze Powder Works Inc., Malone, N. Y. Tarnish-resistant bronze powder and treatment process therefor. 2,666,714, Jan. 19.

Hall, Jesse E., Sr., Weatherford, Tex. Band end connection. 2,666,241, Jan. 19.

Hammerly, Herman J., Plainville, Conn., assignor, by mesne assignments, to General Electric Company. Solderless terminal. 2,666,910, Jan. 19.

Handy & Harman, assignee: *See*— Chamer, Ernest S.

Hanson-Van Winkle-Munning Company, assignee: *See*— Kardos, Otto.

Harding, William R., Ebenezer, A. W. Kimball, Buffalo, and L. G Opel, Tonawanda, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control of the hysteresis spread of rotating direct current machines. 2,666,886, Jan. 19.

Hardy, Henry G., assignee, trustee: *See*— Tocci-Guilbert, Berne.

Hakomaki, Raymond I.: *See*— King, Glengarry D., and Harkema.

Harris, Carl, Cicero, Ill. Bedstead fitting. 2,666,214, Jan. 19.

Harris, George M., Chicago, Ill. Hook plate construction for bedsprings. 2,666,215, Jan. 19.

Harris, Percy W., Shirley, Birmingham, assignor to M. P. J. Gauge & Tool Company Limited, Erdington, Birmingham, England. Electrical means for measuring the thickness of an electrically nonconductive material. 2,666,896, Jan. 19.

Harris-Seybold Company, assignee: *See*— Wood, William H.

Harsch, Chester A., Portland, Oreg. Hydraulic telescopic boom. 2,666,417, Jan. 19.

Hart Manufacturing Company, The, assignee: *See*— Bengtsson, Bertil S.

Hartford National Bank and Trust Company, trustee, assignee: *See*— Brandt, Adrianus.

Hartwell, George W., Springfield, Mass., assignor to Worthington Corporation. Rotary pump adapted to be supported and actuated by a power take-off shaft of a motor. 2,666,395, Jan. 19.

Hastings, Earl G., Jr., Tulsa, Okla. Barbecue oven. 2,666,425, Jan. 19.

Hauf, George F., River Forest, assignor to Chicago Metal Mfg. Co., Chicago, Ill.. Support for coin controlled machines. 2,666 607, Jan 19.

Hawthorne, Herbert J., Houston, Tex Detachable blade bit. 2,666,622, Jan. 19.

Hays, Harrison L.: *See*— Dolezal, Edward, Hays, McCullough, and Hachmuth.

Hazeltine, Research, Inc., assignee: *See*— Hirsch, Charles J.

Heiby, Walter A.: *See*— Strehlow, Richard A., and Heiby.

Heider, Rudolph L., Texas City, Tex., assignor to Monsanto Chemical Company, St. Louis, Mo. Production of hydrocyanic acid. 2,666,689, Jan. 19.

Heldorn, John H., assignor to General Motors Corporation, Dayton, Ohio. Apparatus for magnetically locating a rotor with respect to the stator. 2,666,892, Jan. 19.

Henneman, Clarence O.: *See*— Garretson, Owen L., and Henneman.

Hennig, Harvey: *See*— Folkins, Hillis O., Miller, and Hennig.

Hensley, Robert K., Jr., Silver Spring, Md. Continuous electrical outlet. 2,666,907, Jan. 19.

Herff Jones Co., assignee: *See*— Lewis, William L.

Heritage, Clark C., Cloquet, Minn., assignor to Weyerhaeuser Timber Company, Longview, Minn. Densifying wood. 2,666,463, Jan. 19.

Herman, James H., Jr., Austin, Tex. Combined cigarette lighter and ash tray. 2,666,522, Jan. 19.

Hermoplast Limited, assignee: *See*— Eisler, Paul.

Heseltine, Donald W., and L. G. S. Brooker, assignors to Eastman Kodak Company, Rochester, N. Y. Trinuclear polymethine dyes containing a pyrryl indoyl, or pyrrocolyl nucleus. 2,666,761, Jan. 19.

Hester, Dwight, Chicago, Ill. Liquid dispenser. 2,666,557, Jan. 19.

Hewson, Robert P., assignor to The Stanley Engineering Company Limited, Egham, England. Engine turning gear. 2,666,331, Jan. 19.

Higert, William J., San Francisco, Calif. Resilient coupling for grinding tools. 2,666,307, Jan. 19.

Hiler, Malvern J., assignor to Commonwealth Engineering Company of Ohio, Dayton, Ohio. Thermometer assembly with limited luminous background. 2,666,329, Jan. 19.

Hill, Francis A., 2nd: *See*— Hill, Myron F. and F. A.

Hill, George B., Celina, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Forage blower. 2,666,672, Jan. 19.

Hill, Howard, assignor to Dixie Cup Company, Easton, Pa. Holder for both flat bottom and conical paper cups. 2,666,310, Jan. 19.

Hill, John I., assignee: *See*— Poirier, Ernest J.

Hill, Myron F. and F. A., 2nd, Westport, Conn. Internal gear teeth. 2,666,336, Jan. 19.

Hill, Ralph L., Memphis, Tex. Applicator for cream preparations. 2,666,355, Jan. 19.

Hills-McCanna Company, assignee: *See*— Lauffer, Jacob R.

Hirdler, Louis C.: *See*— Miller, Warren S., and Hirdler.

Hirsch, Charles J., Douglaston, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Electrical computer. 2,666,576, Jan. 19.

Hixson, Arthur W., Leonia, N. J., and R. Miller, assignors, by mesne assignments, to The Chemical Foundation, Incorporated, New York, N. Y. Treatment of fatty oils. 2,666,773, Jan. 19.

Hoekstra, James, Evergreen Park, assignor to Universal Oil Products Company, Chicago, Ill. Spheroidal alumina. 2,666,749, Jan. 19.

Hoenle, Norman J.: *See*— Landis, George G., and Hoenle.

Holland Company, assignee: *See*— Wulff, Cal W.

Holland, James W., Valdosta, Ga. Aircraft wing mounting assembly. 2,666,602, Jan. 19.

Hollingsworth, Lowell M., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Variable frequency multivibrator. 2,666,852, Jan. 19.

Holm, Carl E., assignor to V. E. Kossian, Berwyn, Ill. Supporting apparatus. 2,666,608, Jan. 19.

Holt, Raymond B., Alhambra, Calif. Balance indicator. 2,666,635, Jan. 19.

Hommel, Maurice C., and C. C. Currie, assignors to Dow Corning Corporation, Midland, Mich. Mold release emulsion. 2,666,685, Jan. 19.

Hopff, Heinrich, and H. Spaenig, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany. Nonhygroscopic choline salts. 2,666,784, Jan. 19.

Hopfield, John J., Bethesda, Md., assignor to the United States of America as represented by the Secretary of the Navy. Container having a distortable flow control means. 2,666,545, Jan. 19.

Hopkins, George M., assignee: *See*— Bell, William B.

Hopkins, George W., San Leandro, E. A. Davis, and G. Ziekler, Castro Valley, Calif., assignors to Friden Calculating Machine Co., Inc. Dividend-divisor aligning mechanism. 2,666,580, Jan. 19.

Horkey, Edward J., Rolling Hills, Calif., assignor to North American Aviation, Inc. Balanced control surface. 2,666,603, Jan. 19.

Horne, James Q., Jr., Winsted, Conn. Drying basket for silverware. 2,666,549, Jan. 19.

Hosfield, Lee C., Parma, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Apparatus for making heat sealed ruffled articles. 2,666,472, Jan. 19.

Houdaille-Hershey Corporation, assignee: *See*— Sandberg, Ray A. Schwarz, Richard J.

Howard, Edson J.: *See*— Boeck, Gunther A., and Howard.

Howard, Frank S., Chicago, Ill., assignor to Birtman Electric Company. Fiber cutter for suction cleaners. 2,666,570, Jan. 19.

Howard, John G., and R. H. Thomas, assignors to The Pyle-National Company, Chicago, Ill. Corrosion-resisting flexible connector. 2,666,657, Jan. 19.

Howe, Blanche L., South Bend, Ind. Dressmaker's foundation and guide. 2,666,558, Jan. 19.

Howell, Richard B., assignor to The Kendall Corporation, Milwaukee, Wis. Child's dish holder. 2,666,612, Jan. 19.

Hoyal, Glade D.: *See*— Broadie, Alfred D., and Hoyal.

Hoynes, Dagfin S., Silver Spring, Md. Method and device for interconnecting battery cells. 2,666,800, Jan. 19.

Huch, William F., St. Paul, and R. I. Hakomaki, Minneapolis, Minn., assignors to General Mills, Inc. Balloon and making. 2,666,600, Jan. 19.

Huch, William F., St. Paul, Minn., assignor to General Mills, Inc. Constant altitude balloon. 2,666,601, Jan. 19.

Huff, James H., West Los Angeles, Calif. Gyroscopic aerial top. 2,666,276, Jan. 19.

Hughes, Claude Q., St. Louis, Mo. Trestle. 2,666,673, Jan. 19.

Hulf, Henry J.: *See*— Withers, John G., Hulf, and Rubach.

Hull, William F., Lomita, assignor to Western Precipitation Corporation, Los Angeles, Calif. Electrode assembly for electrical precipitators. 2,666,495, Jan. 19.

Hunt, Clayton E., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Tape facsimile apparatus. 2,666,807, Jan. 19.

Hunt, Gerald R., Long Beach, Calif. Wiper for members operating in wells. 2,666,621, Jan. 19.

Hunt, Kenneth W., assignor to Hunt-Wilde Corp., Dayton, Ohio. Handgrip. 2,666,340, Jan. 19.

Hunt-Wilde Corp., assignee: *See*— Hunt, Kenneth W.

Hunter, Lloyd P., Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Semiconductor amplifier. 2,666,816, Jan. 19.

Hurd, Charles O., Piedmont, assignor to Shell Development Company, San Francisco, Calif. Fractionating column with removable trays. 2,666,737, Jan. 19.

Husted, Donald R., St. Paul, and A. H. Ahlbrecht, White Bear Township, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Fluorinated alcohols and acetate esters. 2,666,797, Jan. 19.

Hutchins, Joseph W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Recording system. 2,666,854, Jan. 19.

Hyster Company, assignee: *See*— Shoemaker, Robert C.

Illinois Tool Works, assignee: *See*— Poupitch, Ouglјesa J.

Imperial Chemical Industries Limited, assignee: *See*— Elleman, Albert J.

Imperial Typewriter Company Limited, The, assignee: *See*— Brumhill, Claude W., and Pateman.

Ingwer, Carl H., assignor to The Ridge Tool Company, Elyria, Ohio. Tool supporting tray. 2,666,609, Jan. 19.

Inland Steel Company, assignee: *See*— Pletsch, Leonard C.

Interior, United States of America as represented by the Secretary of the, assignee: *See*— Parry, Vernon F.

Interior, United States of America as represented by the Solicitor of the Department of the, assignee: *See*— Runke, Sidney M. Schack, Carl H., and Dean.

International Electronics Company, The, assignee: *See*— Stone, Burnham E.

Ipsen, Peter G.: *See*— Sheppard, Raymond, and Ipsen.

Jaggi, Walter, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Electric motor with built-in flywheel and clutch. 2,666,509, Jan. 19.

Jaquith, John S., Caldwell, assignor to Bendix Aviation Corporation, Teterboro, N. J. Rotary throttle blade design. 2,666,618, Jan. 19.

Jelinek, Arthur G., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Alkyl p-nitrophenyl benzenephosphonate. 2,666,727, Jan. 19.

Jelinek, Arthur G., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Propyl p-nitrophenyl thionobenzene phosphonates. 2,666,777, Jan. 19.

Jennings, Kenneth L., Sr., Lakewood, Ohio. Exercising stand. 2,666,640, Jan. 19.

Jessee, Ralph D.: *See*— Austin, Bascum O., and Jessee. Austin, Bascum O., Jessee, and Stump.

Johns-Manville Corporation, assignee: *See*— Clarvoe, George W. Graybeal, Bruce A.

Johnson, Charles A., Andover, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Heel block sawing machine. 2,666,461, Jan. 19.

Johnson, Guy D., Jr., Red Bank, N. J., assignor to the United States of America as represented by the Secretary of the Army. Radiation shield for spark plugs. 2,666,423, Jan. 19.

Johnson, Harold L., Pasadena, Calif., and V. Josephson, Cambridge, Mass. Short-pulse modulator. 2,666,849, Jan. 19.

Johnson, Herbert C.: *See*— Christian, Raymond A., Ganger, Crawford, and Johnson.

Johnson, John A., Zebulon, N. C. Farm tractor. 2,666,491, Jan. 19.

Johnson, John R., Ithaca, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo compounds having alkoxy and cyano groups. 2,666,758, Jan. 19.

Johnson, Melvin C., St. Paul, assignor of one-half to P. N. Ross, Minneapolis, Minn. Ice boring device. 2,666,623, Jan. 19.

Johnson, Nils, Silver Spring, Md. Hooking device. 2,666,664, Jan. 19.

Johnson, Stanley A., New York, assignor to Polytechnic Research and Development Company Incorporated, Brooklyn, N. Y. Microwave frequency meter. 2,666,904, Jan. 19.

Jones, Clarence W., Boston, Mass. Cavity coupling to wave guide. 2,666,903, Jan. 19.

Jones, Earle W., Hastings-on-Hudson, N. Y. Master sound record. 2,666,651, Jan. 19.

Jones, Frederick M., assignor to U. S. Thermo Control Co., Minneapolis, Minn. Method and means of defrosting a cold diffuser. 2,666,298, Jan. 19.

Jones, Maurice F.: *See*— Godsey, Frank W., Jr., and Jones.

Jordan Marsh Company, assignee: *See*— Dooley, Arthur F.

Jorgensen, Anders O.: *See*— Ericsson, Eric A., Jorgensen, and Overby.

Josephson, Vernal: *See*— Johnson, Harold L., and Josephson.

Jovishoff, Hans, and B. W. Karp, New York, N. Y. Feeding device for ink fountains. 2,666,386, Jan. 19.

Juley, Joseph P., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching control system. 2,666,578, Jan. 19.

Jungjohann, Vernon H., assignor to Eastman Kodak Company, Rochester, N. Y. Reel driving mechanism for motion-picture projectors. 2,666,594, Jan. 19.

Junkmann, Karl, Berlin, and H. Röhrig, Berlin-Kopenick, assignors to Schering A. G., Berlin, Germany. Surgical injection device. 2,666,435, Jan. 19.

Kadell, Alfred E., Steubenville, Ohio, assignor to National Steel Corporation. Applying a liquid film to strip-like material. 2,666,716, Jan. 19.

Kalfalan, Meguer V., Los Angeles, Calif. Color television. 2,666,806, Jan. 19.

Kaminky, Herbert E., assignor to The Superior Tea and Coffee Company, Chicago, Ill. Automatic coffee urn and control therefor. 2,666,379, Jan. 19.

Kane, Ernest M., Oxnard, Calif. Shock indicating device. 2,666,409, Jan. 19.

Kardos, Otto, Keyport, assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J. Bright silver plating. 2,666,738, Jan. 19.

Karp, Ben W.: *See*— Jovishoff, Hans, and Karp.

Kattu Project, Inc., assignee: *See*— Babcock, Vearne C.

Kaufman, Albert and L., Brooklyn, N. Y. Window construction. 2,666,235, Jan. 19.

Kaufman, Louis: *See*— Kaufman, Albert and L.

Kaufman, Solomon, New York, N. Y. Traveling desk set. 2,666,290, Jan. 19.

Kayler, Frank H., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Railway car coupler having means to prevent vertical disengagement. 2,666,533, Jan. 19.

Kayser, Daniel, Paris, France, assignor to Societe Anonyme pour les Applications de l'Electricite et des Gaz Rares-Etablissements Claude-Paz & Silva. Transformer. 2,666,859, Jan. 19.

Keating, Richard T., Chicago, Ill. Deep frier. 2,666,427, Jan. 19.

Kelly, James G.: *See*— Culver, Perrin C., and Kelly.

Kelly, Ogilvie C., assignor to The Toledo Plate & Window Glass Company, Toledo, Ohio. Mirror mounting means. 2,666,364, Jan. 19.

Kendall Corporation, The, assignee: *See*— Howell, Richard B.

Kenworthy, Clarence S., Evanston, Ill., and W. J. Blessing, Buffalo, N. Y.; said Blessing assignor to Worthington Corporation, Harrison, N. J. Fuel gas volume control for internal-combustion engines. 2,666,422, Jan. 19.

Kessler, Wilbur, Broomall, Pa., assignor, by mesne assignments, to Detroit Stoker Company. Stoker apparatus 2,666,404, Jan. 19.

Kimball, Albert W.: *See*— Harding, William R., Kimball, and Opel.

Kimes, Harold E., assignor to Harold E. Kimes Corporation, Chicago, Ill. Tire tread and apparatus for forming same. 2,666,470, Jan. 19.

Kimes, Harold E., Corporation, assignee: *See*— Kimes, Harold E.

Kimmerle, Howard J., Los Angeles, Calif. Material handling apparatus. 2,666,671, Jan. 19.

Kimura, Richard N., Seattle, Wash. Bamboo rake handle attaching structure. 2,666,288, Jan. 19.

Kindley, Nannie B., Concord, N. C. Mop holder having twisted wire handle. 2,666,225, Jan. 19.

King, Glengarry D., Washington, D. C., and R. V. Harkema, Seattle, Wash., assignors to Crown Zellerbach Corporation, San Francisco, Calif. Making masked lignocellulosic material. 2,666,726, Jan. 19.

Kirchel, Alan A.: *See*— Cannon, Frank H., and Kirchel.

Kircher, Reymond J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone signaling system. 2,666,812, Jan. 19.

Klein, Arthur L. : *See*—
Gow, Kenneth P., and Klein.

Klemm, Edwin O., Saginaw, Mich. Prefabricated building construction. 2,666,233, Jan. 19.

Kliever, Waldo H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Compass system. 2,666,268, Jan. 19.

Kliever, Waldo H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Combustion control apparatus. 2,666,584, Jan. 19.

Klostermann, Curt W., assignor to American Phenolic Corporation, Chicago, Ill. Lightning arrester. 2,666,908, Jan. 19.

Knopp, Louise B., assignee : *See*—
Knopp, Otto A.

Knopp, Otto A., Oakland, Calif., assignor, by decree of distribution, to L. B. Knopp. Method of and apparatus for the calibration of instrument current transformers. 2,666,895, Jan. 19.

Kolling, Helmut : *See*—
Feichtinger, Hans, Kolling, and Puschhof.

Koros, Leslie L., Camden, N. J., assignor to Radio Corporation of America. Frequency modulator transistor circuits. 2,666,902, Jan. 19.

Kossian, Victor E., assignee : *See*—
Holm, Carl E.

Krah, Carl : *See*—
Krah, Edward and C., and Rudy.

Krah, Edward and C., and W. Rudy, assignors to Pyramid Aquariums, Inc., Newark, N. J. Thermostatically controlled electric water heater. 2,666,838, Jan. 19.

Kraus, John D., Newton Center, Mass., assignor to United States of America as represented by the Secretary of War. Antenna. 2,666,850, Jan. 19.

Kridel, Donald J., F. R. Bean, and W. J. Rogers, assignors to Eastman Kodak Company, Rochester, N. Y. Single powder photographic developers having improved stability to high temperatures. 2,666,702, Jan. 19.

Kridel, Donald J., and E. S. Wiitala, assignors to Eastman Kodak Company, Rochester, N. Y. Single-powder photographic developers stabilized with metaboric acid. 2,666,703, Jan. 19.

Kromex Corporation, assignee : *See*—
Ziskin, Manuel S., and Billig.

Kruse, Charles C., Bothell, Wash. Multiple cylinder reciprocating pump with rack pinion actuating means. 2,666,396, Jan. 19.

Krzikalla, Hans, Heidelberg, assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany. Production of sulfonyl-isocyanates. 2,666,787, Jan. 19.

Kuehn, Herman, assignor to Gemex Company, Union, N. J. Spring hook clasp. 2,666,243, Jan. 19.

Kulka, Marshall, and R. H. F. Manske, Guelph, Ontario, Canada, assignors to United States Rubber Company, New York, N. Y. Terephthalic acid synthesis. 2,666,786, Jan. 19.

Kurlandsky, Sam, assignor to Burgess Battery Company, Freeport, Ill. Battery with conductive wax intercell connections. 2,666,803, Jan. 19.

Kurzenberger, Richard F. : *See*—
Farrington, Robert K. and T. B., and Kurzenberger.

Kvetinskas, Bruno : *See*—
Pines, Herman, and Kvetinskas.

Lambach, Fritz, Tenafly, assignor to Robert Reiner, Inc., Weehawken, N. J. Straight bar knitting machine and operating same. 2,666,311, Jan. 19.

Lammers, Bessie B. : *See*—
Lammers, Harold C. F. and B. B.

Lammers, Harold C. F. and B. B., Akron, Ohio. Ski sleigh. 2,666,652, Jan. 19.

Landis, George G., South Euclid, and N. J. Hoenie, Cleveland Heights, assignors to The Lincoln Electric Company, Cleveland, Ohio. Combined welding head and flux hopper for continuous welding. 2,666,832, Jan. 19.

Landwier, William G., Fayetteville, assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Filter. 2,666,529, Jan. 19.

Lane, Richard, assignee : *See*—
Davis, John W.

Lang, Louis, and R. J. Baird, Philadelphia, Pa., assignors to The National Sugar Refining Company, New York, N. Y. Plasticizer and moisture retentive composition for paper and paper containing it. 2,666,713, Jan. 19.

Lanzilotti, Anthony E., Belleville, A. C. Shabica, Livingston, and J. B. Ziegler, assignors to Ciba Pharmaceutical Products, Incorporated, Lafayette Park, Summit, N. J. Splitting aralkyl-heterocyclic thioethers with aluminum bromide. 2,666,764, Jan. 19.

Larsen, Oscar F. : *See*—
Carlson, Carl H., Frieberg, and Larsen.

Laserson, Frederick M., Los Angeles, Calif. Micrometer. 2,666,263, Jan. 19.

Lattof, Alphonse, Mobile, Ala. Cigarette extinguisher. 2,666,437, Jan. 19.

Laucks, Howard H., Boonton, assignor to Bendix Aviation Corporation, Teterboro, N. J. Motion transmittal and sealing means therefor. 2,666,658, Jan. 19.

Lauffer, Jacob R., Valley Stream, N. Y., assignor, by mesne assignments, to Hills-McCanna Company, Chicago, Ill. Automatic counting and tabbing machine for presses. 2,666,372, Jan. 19.

Laurent, Milton P., Houston, Tex., assignor to W-K-M Company. Gate valve. 2,666,615, Jan. 19.

Laver, Frank, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Induction heating apparatus. 2,666,841, Jan. 19.

Lazar, Morris : *See*—
Gendler, Louis, and Lazar.

Lester, Lawson L., Jr., Martinsville, Va. Two-part preformed window frame structure. 2,666,234, Jan. 19.

Levine, Bernard, Bronx, N. Y., assignor to The Fotopak Corp., Englewood, N. J. Photographic exposure control circuit. 2,666,858, Jan. 19.

Lévy, Bohor R., Choisy-le-Roi, France. Signal system for vehicles. 2,666,870, Jan. 19.

Lewin, Jacob W., Oak Park, Ill. ; L. E. Lewin, administratrix of J. W. Lewin. Gauge stop for pipe benders. 2,666,351, Jan. 19.

Lewin, Lillie E., administratrix : *See*—
Lewin, Jacob W.

Lewis, William L., assignor to Herff Jones Co., Indianapolis, Ind. Finger ring stone mounting. 2,666,306, Jan. 19.

Liebrandt, Karl, Oberfranken, Germany. Drive control apparatus for beam warpers. 2,666,250, Jan. 19.

Lincoln Electric Company, The, assignee : *See*—
Landis, George G., and Hoenie.

Lindeman, Edward H., Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Leaf spring structure. 2,666,637, Jan. 19.

Lindemann, Robert E. : *See*—
Strong, Walter J., and Lindemann.

Lissant, Kenneth J., Kirkwood, Mo., assignor to Petrolite Corporation, Wilmington, Del. Resinous coated article and making same. 2,666,719 Jan. 19.

Lock, James S., and D. J. Noggle, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Temperature control apparatus for steam heating systems. 2,666,586, Jan. 19.

Loebel, Frederick A., Milwaukee, Wis., assignor to Cleaver-Brooks Company. Centrifugal separator. 2,666,499, Jan. 19.

Loewy, Erwin, assignee : *See*—
Wood, Fran J.

Longini, Richard L., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Image intensifier tube. 2,666,864, Jan. 19.

Louisiana State University and Agricultural and Mechanical College, Board of Supervisors of, assignee : *See*—
Poole, Wiley D.

Lubin Emile : *See*—
Colton, Roger B., Lubin, and Deschamps.

Lucas, Anton, Chicago, Ill. Ventilated stocking. 2,666,207, Jan. 19.

Lucas, Joseph, Limited, assignee : *See*—
Skoreckl, Jan.

Lund, James K., Oak Park, assignor to The Dole Valve Company, Chicago, Ill. Spaced wall container. 2,666,548, Jan. 19.

Lustman, Benjamin : *See*—
Bechtold, James H., Lustman, and Scott.

Lycan, Bertha C., Omaha, Nebr. Auto seat headrest. 2,666,476, Jan. 19.

Lynn, Howard F., assignor to Bendix Aviation Corporation, Detroit, Mich. Pulse modulator. 2,666,901, Jan. 19.

Lytton, Marion R., West Chester, Pa., assignor, by mesne assignments, to The Chemstrand Corporation, Decatur, Ala. Quaternary benzylchloride salts of 3-hydroxy 4-disubstituted amino-butene-1. 2,666,783, Jan. 19.

M. P. J. Gauge & Tool Company Limited, assignee : *See*—
Harris, Percy W.

Maccaferri, Mario, Rye, N. Y. Clip for clothes racks. 2,666,240, Jan. 19.

MacDonell, John, Redwood City, Calif. Sound pickup and reproducing apparatus. 2,666,650, Jan. 19.

Machado, Anthony B., San Leandro, and F. J. Prueliage, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc. Split clearing mechanism. 2,666,582, Jan. 19.

Mack, Lawrence L., assignee : *See*—
Alexander, William R., Williams, Dawson, and Bentz.

Maeser, Mieth, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Spraying apparatus for shoe sole margins. 2,666,413, Jan. 19.

Mafko, Rudolph, Wilmington, Del., assignor to Bayshore Industries, Inc., Elkton, Md. Face mask. 2,666,204, Jan. 19.

Mafko, Rudolf, Wilmington, Del., assignor to Bayshore Industries, Inc., Elkton, Md. Face mask. 2,666,205, Jan. 19.

Mafko, Rudolf, Wilmington, Del., assignor to Bayshore Industries, Inc., Elkton, Md. Face mask. 2,666,206, Jan. 19.

Magic Chef, Inc., assignee : *See*—
Brodbeck, Almer H.

Magic Seal, Inc., assignee : *See*—
Rand, Henry J.

Magyar, Nicholaus W. : *See*—
Burkhard, William C., Jr., and Magyar.

Mallory, P. R., & Co., Inc., assignee : *See*—
Aust, Robert J.

Mallory-Sharon Titanium Corporation, assignee : *See*—
Dickinson, Robert H., and Busch.

Malone Bronze Powder Works Inc., assignee : *See*—
Halberstadt, Joseph.

Mankowich, Ivan, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Preparation of ketone-diarylamine condensates. 2,666,792, Jan. 19.

Mankowich, Ivan, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Preparation of ketone-diarylamine condensates. 2,666,793, Jan. 19.

Mann, Fred A., Jr., South Bend, Ind. Laundry shaker and conditioner. 2,666,271, Jan. 19.

Manning, Maxwell & Moore, Incorporated, assignee : *See*—
Beck, Rudolf, and Belpedio.

Man-Sew Corporation, assignee : *See*—
Sigoda, Victor J.

Manske, Richard H. F. : *See*—
Kulka, Marshall, and Manske.

Marathon Corporation, assignee : *See*—
Farrell, Robert A.

Marchal, Raymond H. : *See*—
Garnier, Henri L., and Marchal.

Marchant Calculators, Inc., assignee : *See*—
Reynolds, Eugene E.

Marine, Olaer, assignee : *See*—
Audemar, Pierre.

Marks, Cedric H., assignee : *See*—
Zuckerman, Samuel G.

Martin, Edward G., Cambridge, Mass. Pump for precision adjustment. 2,666,392, Jan. 19.

Martin, Glenn L., Company, The, assignee : *See*—
Burkhard, William C., Jr., and Magyar.

Martin, Lawrence A. : *See*—
Riedesel, Richard G., Miller, and Martin.

Martin, Tellis A. : *See*—
Randall, David I., and Martin.

Matasovic, John L., Chicago, Ill. Pressure regulator. 2,666,278, Jan. 19.

Matheson, George L. : *See*—
Odell, William W., and Matheson.

Mathieson Chemical Corporation, assignee : *See*—
Miller, Warren S., and Hirdler.

Mattke, Charles F. : *See*—
Graham, Robert E., and Mattke.

Mattson, Elbert C., Portland, Oreg. Traffic marker. 2,666,373, Jan. 19.

Mavor & Coulson, Limited : *See*—
Gullick, Ernest D. M.

Mavor & Coulson, Limited, assignee : *See*—
Mavor, John B.
Sproul, John C.

Mavor, John B., assignor to Mavor & Coulson, Limited, Glasgow, Scotland. Steering indicator for mining machines. 2,666,631, Jan. 19.

McAndrew, Richard T., Braintree, Mass., assignor to United States Testing Company, Incorporated, Hoboken, N. J. Coring device for baled goods. 2,666,330, Jan. 19.

McCain, Cecil C., Glen Ellyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for applying sticky strand material to articles. 2,666,591, Jan. 19.

McCallum, Robert A. : *See*—
Vanderzee, Harry H., and McCallum.

McCallum, Russell D. : *See*—
Davis, Ernest, and McCallum.

McConnell, Elliott B., Shaker Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Treating hydrocarbons with a double-function catalyst. 2,666,732, Jan. 19.

McCormick Brothers Company, assignee : *See*—
McCormick, Morris D.

McCormick, Morris D., Muncie, assignor to McCormick Brothers Company, Albany, Ind. Folding table with cross legs. 2,666,682, Jan. 19.

McCoy, Clarence E., Clarendon Hills, and B. L. Wright, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Article feeding device. 2,666,255, Jan. 19.

McCullough, Gerald W. : *See*—
Dolezal, Edward, Hays, McCullough, and Hachmuth.

McCune, Joseph C., Edgewood, Pa., assignor to Westinghouse Air Brake Company. Disk brake. 2,666,503, Jan. 19.

McCune, Joseph C., Edgewood, Pa., assignor to Westinghouse Air Brake Company. Disk brake. 2,666,505, Jan. 19.

McDonough, Paul F., Dorchester, Mass. Apparatus for lifting bricks. 2,666,663, Jan. 19.

McGraw Electric Company, assignee : *See*—
Badenoch, Benjamin W.
Van Ryan, Anthony.
Weinfurt, William J., and Bale.

McGraw, Vincent G., Front Royal, Va., assignor to American Viscose Corporation, Wilmington, Del. Sprinkler head. 2,666,670, Jan. 19.

McIninch, Glenn W., Omahu, assignor to Auburn Machine Works, Inc., Auburn, Nebr. Trenching machine. 2,666,273, Jan. 19.

McLaren, Everett F., assignee : *See*—
Porter, Gilbert E.

McLaren, Ian H., Dearborn, and C. E. Alsterberg, assignors to Bendix Aviation Corporation, Detroit, Mich. Radioactive test circuit. 2,666,857, Jan. 19.

McLeod, David F., Worthington, Minn. Material handling scoop. 2,666,662, Jan. 19.

McMillan, Edwin M., San Marino, Calif. Electronic switch. 2,666,868, Jan. 19.

McMullen, James F., Pelham, N. Y., assignor to Worthington Corporation. Regeneration of mixed single bed deionization. 2,666,741, Jan. 19.

McNally-Pittsburg Manufacturing Corporation, The, assignee : *See*—
Pate, Robert L.

McQuaid, Thomas, Boston, Mass. Device to shape piecrust dough. 2,666,401, Jan. 19.

McQuiston, Raymond C., West Newton, and F. E. Davenport, Newton Centre, Mass., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Precipitating size with chromium and aluminum salts. 2,666,699, Jan. 19.

Meldal, Odd M., Portland, Oreg. Method and means for facilitating connecting electric multiconductors. 2,666,898, Jan. 19.

Memphis Chemical Co., The, assignee : *See*—
Badran, Nasry.

Meretey, Zoltan, assignor to PM Industries Incorporated, Stamford, Conn. Acid treatment of plastic articles. 2,666,693, Jan. 19.

Miller, Elmer : *See*—
Folkins, Hillis O., Miller, and Hennig.

Miller, John W., Toronto, Ontario, Canada. Shuttlecock and manufacture. 2,666,643, Jan. 19.

Miller, Joseph V., Auburn, and R. C. Reed, Sturbridge, assignors to American Optical Company, Southbridge, Mass. Improvement in cases. 2,666,521, Jan. 19.

Miller, Lester C., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis. Bearings. 2,666,677, Jan. 19.

Miller, Ralph : *See*—
Hixson, Arthur W., and Miller.

Miller, Theodore J. : *See*—
Riedesel, Richard G., Miller, and Martin.

Miller, Warren S., Houston, Tex., and L. C. Hirdler, Maplewood, La., assignors to Mathieson Chemical Corporation. Production of sodium bicarbonate and ammonium chloride in modified ammonia-soda type process. 2,666,686, Jan. 19.

Minard, Everett S., Fairport, assignor to The Pfaudler Company, Rochester, N. Y. Filling machine. 2,666,564, Jan. 19.

Minneapolis-Honeywell Regulator Company, assignee : *See*—
Eckman, Donald P.
Ehret, Robert J., and Wernlund.
Gess, Louis.
Kliever, Waldo H.
Lock, James S., and Noggle.

Minnesota Mining & Manufacturing Company, assignee : *See*—
Husted, Donald R., and Ahlbrecht.
McQuiston, Raymond C., and Davenport.
Riedesel, Richard G., Miller, and Martin.

Mono-Cam Limited, assignee : *See*—
Friedlander, William.

Monsanto Chemical Company, assignee : *See*—
Boyd, Thomas.
Boyd, Thomas, and Dickey.
Heider, Rudolph L.
Walker, Harry M.

Morberg, Ivar A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Making spring assemblages. 2,666,253, Jan. 19.

Morrell, Charles E., Westfield, C. S. Carlson, Roselle, and C. E. Porter, Cranford, N. J., assignors to Standard Oil Development Company. Purification of isopropyl alcohol. 2,666,735, Jan. 19.

Morse Chain Company, assignee : *See*—
Riopelle, Earl F.

Morton, Harold S., Jr. : *See*—
Beams, Jesse W., and Morton.

Mott, Chester, deceased, Evanston, Ill., by G. A. Mott, executor, assignor to Fansteel Metallurgical Corporation. Tantalum welding fixture. 2,666,833, Jan. 19.

Mott, Chester, deceased, Evanston, Ill., by G. A. Mott, executor, assignor to Fansteel Metallurgical Corporation. Welding machine. 2,666,834, Jan. 19.

Mott, George A., executor : *See*—
Mott, Chester.

Mueller, Paul J. : *See*—
Gauci, Joseph, and Mueller.

Muirhead & Company Limited, assignee : *See*—
Cannon, Frank H., and Kirchel.

Mullen, Leo V., Jr., Clifton, and J. M. Boyle, Bayonne, N. J., assignors to Standard Oil Development Company. Corrosion preventing agent. 2,666,745, Jan. 19.

Mulnix, Ersel C., Lake Bluff, Ill. Carton. 2,666,566, Jan. 19.

Munday, Charles W., London, England, assignor to The Distillers Company Limited, Edinburgh, Scotland. Apparatus for measuring the magnetic susceptibility of gases. 2,666,893, Jan. 19.

Munday, John C., Cranford, and D. T. Rogers, Summit, N. J., assignors to Standard Oil Development Company. Lubricating oil composition. 2,666,746, Jan. 19.

Murray, George, Eureka, Calif. Condiment distributor. 2,666,554, Jan. 19.

Nalle, Charles R., Philadelphia, Pa. Threaded article and support therefor. 2,666,334, Jan. 19.

Naples, Angelo F., assignee, trustee: *See*—
Nardulli, Michael J.

Nardulli, Michael J., Elmwood Park, Ill., assignor to M. J. Nardulli, A. F. Naples, and P. F. Nardulli, as trustees, and known as Western Engineering Trust. Window sash frame structure. 2,666,508, Jan. 19.

Nardulli, Peter F., assignee, trustee: *See*—
Nardulli, Michael J.

Nash-Kelvinator Corporation, assignee: *See*—
Doeg, Ralph W.
Philipp, Lawrence A.

Nashua Corporation, assignee: *See*—
Davis, Austin E.

National Cash Register Company, The, assignee: *See*—
Carlson, Carl H., Frieberg, and Larsen.
Christian, Raymond A., Ganger, Crawford, and Johnson.
Tenoort, Karl H.

National Steel Corporation, assignee: *See*—
Kadell, Alfred E.

National Sugar Refining Company, The, assignee: *See*—
Lang, Louis, and Baird.

National Supply Company, The, assignee: *See*—
Trishman, Lawrence E.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Beams, Jesse W., and Morton.
Cochran, Charles W., Jr.
Hopfield, John J.
Schaelchlin, Walter, Winchester, and Ponstingl.

Nerman, Tom, New York, N. Y. Tripod head. 2,666,610, Jan. 19.

Neuworth, Martin B.: *See*—
Gorin, Everett, and Neuworth.

Newton, Edward T., assignee: *See*—
Bell, William B.

Nichols, Neil: *See*—
Bradley, Schuyler L., and Nichols.

Nielsen, Borge, assignee: *See*—
Teisen, Mogens R. G.

Nielsen, Henning, assignee: *See*—
Teisen, Mogens R. G.

Niks, Nicholas J., Munising, Mich. Making soft papers adaptable to impregnation. 2,666,369, Jan. 19.

Nims, Paul T., and A. Chadkewicz, Detroit, Mich., said Chadkewicz now by change of name A. Chadwick, assignors to Chrysler Corporation, Highland Park, Mich. Electromechanical change-speed transmission and brake control for vehicles. 2,666,492, Jan. 19.

Nitzsche, Siegfried, Burghausen, assignor, by mesne assignments, to Wacker-Chemie G. m. b. H., Munich, Germany. Preparation of organosilanes by reaction of silicon with organic halides. 2,666,775, Jan. 19.

Nitzsche, Siegfried, Burghausen, Upper Bavaria, assignor, by mesne assignments, to Wacker-Chemie G. m. b. H., Munich, Germany. Production of organic silicon compounds. 2,666,776, Jan. 19.

Noble, Burton A., Oakland, Calif., assignor to Owens-Illinois Glass Company. Apparatus for fire finishing glass articles. 2,666,277, Jan. 19.

Noggle, Dwayne J.: *See*—
Lock, James S., and Noggle.

North American Aviation, Inc., assignee: *See*—
Horkey, Edward J.

Norton, Sir James Farmer, & Company Limited, assignee: *See*—
Norton, William J.

Norton, William J., assignor to Sir James Farmer Norton & Company Limited, Salford, England. Plural motors driving reversible draw rollers. 2,666,875, Jan. 19.

O'Brien, William J., Oxshott, England, assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Stop-on-signal radio apparatus. 2,666,853, Jan. 19.

Odell, William W., New York, N. Y., and G. L. Matheson, Union, N. J., assignors to Standard Oil Development Company. Process and apparatus for separating mixed materials. 2,666,526, Jan. 19.

Odom, Nicholas A., Washington, D. C. Awning. 2,666,236, Jan. 19.

Ogle, Robert W., Pasadena, Calif. Syringe. 2;666,433, Jan. 19.

Ogle, Robert W., Pasadena, Calif. Disposable syringe. 2,666,434, Jan. 19.

Oldham, Wilfred J.: *See*
Wirth, Max M., and Oldham.

Olin Industries, Inc., assignee: *See*—
Foster, Harry C.
Woodring, William B., and Eaton.

Olivier, Jules A.: *See*—
Schneider, Anthony M., and Olivier.

Olofsson, Nils T., Lanhult, Sweden. Table with adjustable cantilever shelf. 2,666,679, Jan. 19.

Ongley, George E., assignor to The Spirella Company, Incorporated, Niagara Falls, N. Y. Foundation garment. 2,666,202, Jan. 19.

Onia, John: *See*—
De Voll, Ralph L., and Onia.

Opel, Lawrence G.: *See*—
Harding, William R., Kimball, and Opel.

Osborn Manufacturing Company, The, assignee: *See*—
Peterson, Ruben O.

Oswego Falls Corporation, assignee: *See*—
Barnes, Alfred A., and Spurr.

Overby, Sune L.: *See*—
Ericsson, Eric A., Jorgensen, and Overby.

Owens-Illinois Glass Company, assignee: *See*—
Noble, Burton A.

P. B. R. Manufacturing Co., assignee: *See*—
Pucci, Joseph.

PM Industries, Incorporated, assignee: *See*—
Battersby, Robert B.
Meretey, Zoltan.

Packard, Alden, Sunbury, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switching circuit. 2,666,867, Jan. 19.

Packie, John W., Maplewood, N. J., assignor to Standard Oil Development Company. Electrical coalescence process. 2,666,739, Jan. 19.

Page Belting Company, assignee: *See*—
Gravitt, Victor.

Page, John, Jr., Glidden, Saskatchewan, Canada. Reversibly driven swather attachment. 2,666,518, Jan. 19.

Parker, John W., Mount Vernon, N. Y. Computer board. 2,666,577, Jan. 19.

Parker Pen Company, The, assignee: *See*—
Rickmeyer, Ernst W.

Parry, Vernon F., Golden, Colo., assignor to the United States of America as represented by the Secretary of the Interior. Drying solids in a fluidized bed. 2,666,269, Jan. 19.

Pasculle, Maurice J., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Auxiliary commutating-field. 2,666,882, Jan. 19.

Paslay, Le Roy C.: *See*—
Poole, Foster M., and Paslay.

Pate, Robert L., assignor to The McNally-Pittsburg Manufacturing Corporation, Pittsburg, Kans. Wash box hutch draw-off. 2,666,525, Jan. 19.

Pateman, Arthur: *See*—
Bruinhill, Claude W., and Pateman.

Paul, Herman L., Jr., New Rochelle, N. Y., assignor to Paul Valve Corporation, Essex Fells, N. J. Ball valve. 2,666,617, Jan. 19.

Paul Valve Corporation, assignee: *See*—
Paul, Herman L., Jr.

Payne, John W., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Separating gel particles. 2,666,524, Jan. 19.

Pearson, John H.: *See*—
Staege, Stephen A., and Pearson.

Pelletier, Lawrence, North Riverside, W. J. Anderson, Elgin, Ill., and H. Fener, Hempstead, N. Y., assignors to Central Commercial Industries, Inc., Cook County, Ill. Stop switch. 2,666,822, Jan. 19.

Pennsylvania Crusher Company, assignee: *See*—
Danyluke, Ostap.

Pereyra, Armando J., Bremerton, Wash. Machine for forming tortillas and the like. 2,666,399, Jan. 19.

Pesce, Augustine F., Philadelphia, Pa. Ultraviolet ray applicator. 2,666,436, Jan. 19.

Pessagno, Joseph, Niles, Calif. Tile molding machine. 2,666,246, Jan. 19.

Peters, Leo, Evanston, Ill. Soft plastic food package. 2,666,710, Jan. 19.

Petersen, William L., assignor to Clarke Sanding Machine Company, Muskegon, Mich. Suction cleaner. 2,666,498, Jan. 19.

Peterson, C. Lynn, assignor to Peterson Filters and Engineering Company, Salt Lake City, Utah. Promoting filtration. 2,666,527, Jan. 19.

Peterson Filters and Engineering Company, assignee: *See*—
Peterson, C. Lynn.

Peterson, Robert E., New York, assignor to Repeter Products, Inc., Long Island City, N. Y. Hand torch and igniter for use with low boiling point fuel. 2,666,480, Jan. 19.

Peterson, Ruben O., University Heights, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Conditioning metal sheets, strips, rods, and the like. 2,666,282, Jan. 19.

Petrolite Corporation, assignee: *See*—
Lissant, Kenneth J.

Pfaudler Company, The, assignee: *See*—
Minard, Everett S.

Phares, Robert D., Phoenix, Ariz. Speed change pulley for drill presses. 2,666,332, Jan. 19.

Philco Corporation, assignee: *See*—
Alter, Albert R.

Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus and cabinet structure. 2,666,302, Jan. 19.

Philips, Richard T., Seattle, Wash. Resilient vise-jaw faceplate having magnetic insert of lesser thickness. 2,666,352, Jan. 19.

Phillips, Clair A., Waco, Tex. Prearranged card dealing device. 2,666,645, Jan. 19.

Phillips Petroleum Company, assignee: *See*—
Condon, Francis E.
Dolezal, Edward, Hays, McCullough, and Hachmuth.
Findlay, Robert A.
Garretson, Owen L., and Henneman.
Hutchins, Joseph W.
Storment, Joseph E.
Talbert, Norwood K.
Whitney, William B.

Phoenix Engineering & Mfg. Company, assignee: *See*—
Gray, Charles E.

Pickels, Edward G., Palo Alto, assignor to Specialized Instruments Corporation, Belmont, Calif. Centrifuge apparatus. 2,666,572, Jan. 19.

Pietsch, Leonard C., Gary, Ind., assignor to Inland Steel Company. Automatic air operated bar turner. 2,666,534, Jan. 19.

Pines, Herman, and B. Kvetinskas, assignors to Universal Oil Products Company, Chicago, Ill. Production of alkenylthiophenes. 2,666,765, Jan. 19.

Pira, Buddie L., and L. V. Gadal, Santa Ana, Calif. Apparatus for cleaning and curing smoking pipes. 2,666,438, Jan. 19.

Pittsburgh Consolidation Coal Company, assignee: *See*—
Gorin, Everett, and Neuworth.

Platt Brothers and Company Limited, assignee: *See*—
Butler, Edward S., and Sutcliffee.

Plumer, John, assignee: *See*—
Ruiz, Raymond R., and Smith.

Plywood Research Foundation, assignee: *See*—
Schubert, Dale L.
Smith, Robert L.

Poirier, Ernest J., assignor of ten per cent to J. I. Hill, Alhambra, Calif. Heated vehicle cover. 2,666,840, Jan. 19.

Pokorny, Stephen S., Maquoketa, Iowa. Adjustable governor for accelerators. 2,666,510, Jan. 19.

Polk, Walter C., Fort Branch, Ind. Corncob burner. 2,666,403, Jan. 19.

Pollard, Maurice B., Pampa, Tex. Portable barbecue and range. 2,666,426, Jan. 19.

Polytechnic Research and Development Company Incorporated, assignee: *See*—
Johnson, Stanley A.

Ponstingl, John C.: *See*—
Schaelchlin, Walter, Winchester, and Ponstingl.

Poole, Foster M., and L. C. Paslay, University Park, Tex., assignors of one-half to said Poole, and one-half to C. Casey, Dallas, Tex. Volumetric measuring apparatus. 2,666,326, Jan. 19.

Poole, Wiley D., assignor to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College, Baton Rouge, La. Tiltably mounted root harvester. 2,666,286, Jan. 19.

Porter, Carter E.: *See*—
Morrell, Charles E., Carlson, and Porter.

Porter, Gilbert E., assignor of forty-nine one-hundredths to E. F. McLaren, Los Angeles, Calif. Compound hydraulic master cylinder construction. 2,666,294, Jan. 19.

Poulsen, George H., assignee: *See*—
Eash, George H.

Poupitch, Ouglјesa J., assignor to Illinois Tool Works, Chicago, Ill. Lock washer with thick rim and making same. 2,666,468, Jan. 19.

Power Jets (Research and Development) Limited, assignee: *See*—
Davidson, Ivor M., and Carter.

Powers & Company, assignee: *See*—
Powers, Frank M.

Powers, Frank M., River Forest, Ill., assignor to Powers & Company. Tent window. 2,666,441, Jan. 19.

Prager, Hans J., Maplewood, N. J., assignor to Radio Corporation of America. Ruggedized electron tube. 2,666,866, Jan. 19.

Pratt, Burt C.: *See*—
Arthur, Paul, Jr., and Pratt.

Price, Charles S., New York, N. Y. Adhesive metal foil, bottle cap thereof, and method. 2,666,542, Jan. 19.

Price, James F., Miami, Fla. Reversible latch and lock for slidable closure devices. 2,666,319, Jan. 19.

Products Designs Co., assignee: *See*—
Beck, Morris B.

Prosperity Company, Inc., The, assignee: *See*—
Davis, Ernest, and McCallum.

Prosser, Lewis S., Jr., Shawnee, Kans. Roller platen control in addressing machines. 2,666,383, Jan. 19.

Pruellage, Frank J.: *See*—
Machado, Anthony B., and Pruellage.

Pryor, William M., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Drop hammer. 2,666,590, Jan. 19.

Pucci, Joseph, assignor to P. B. R. Manufacturing Co., Philadelphia, Pa. Folding table with automatic leg locking mechanism. 2,666,683, Jan. 19.

Pure Oil Company, The, assignee: *See*—
Brennan, Elmer W.

Purifoy, George R., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dynamic-braking protection. 2,666,877, Jan. 19.

Pursche, Harry A., Gardena, Calif. Tractor mounted two-way plow. 2,666,376, Jan. 19.

Puschhof, Siegfried: *See*—
Feichtinger, Hans, Kolling, and Puschhof.

Putterman, Benjamin, Fairfield County, assignor to Yankee Metal Products Corporation, Norwalk, Conn. Automobile mirror attaching bracket. 2,666,611, Jan. 19.

Pyle-National Company, The, assignee: *See*—
Howard, John G., and Thomas.

Pyramid Aquariums, Inc., assignee: *See*—
Krah, Edward and C., and Rudy.

Racek, Alfred, and J. Raganitsch, Vienna, Austria. Casing, in particular lighter casing. 2,666,547, Jan. 19.

Radio Corporation of America, assignee: *See*—
Barton, Loy E.
Fredenburgh, Mark N.
Koros, Leslie L.
Prager, Hans J.
Slade, Bernard N.

Radio Patents Company, assignee: *See*—
Weidmann, Silvio.

Raganitsch, Johann: *See*—
Racek, Alfred, and Raganitsch.

Raisbeck, Gordon, Morristown, and R. L. Wallace, Jr., Plainfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transistor amplifier and power supply therefor. 2,666,817, Jan. 19.

Raisbeck, Gordon, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Balanced amplifier employing transistors of complementary characteristics. 2,666,819, Jan. 19.

Raleigh, Walter J.: *See*—
Armstrong, Daniel A., and Raleigh.

Rand, Henry J., assignor to Magic Seal, Inc., Bratenahl, Ohio. Snap action ball cock. 2,666,447, Jan. 19.

Randall, David I., and T. A. Martin, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Chlormethylation of vat dyes of the pyranthrone, anthanthrone, and dibenzpyrenequinone series. 2,666,767, Jan. 19.

Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaning blade. 2,666,226, Jan. 19.

Ray, William A., North Hollywood, Calif., assignor to General Controls Co. Valve structure for controlling high-pressure fluids. 2,666,451, Jan. 19.

Raytheon Manufacturing Company, assignee: *See*—
Stutsman, Paul W.

Reed Research Inc., assignee: *See*—
Campbell, Richard D.

Reed, Robert C.: *See*—
Miller, Joseph V., and Reed.

Reilly, Norman A., Santa Ana, Calif. Outlet box locator. 2,666,546, Jan. 19.

Reinche, Edwin C., assignee: *See*—
Bossert, Norman K., and Wagner.

Reiner, Robert, Inc., assignee: *See*—
Lambach, Fritz.

Repeter Products, Inc., assignee: *See*—
Peterson, Robert E.

Research Corporation, assignee: *See*—
Willison, Ralph E.

Revere Copper and Brass Incorporated, assignee: *See*—
Wyman, Glenn C.

Reynolds, Eugene E., Richmond, Calif., assignor to Marchant Calculators, Inc. Changeable exhibitor. 2,666,911, Jan. 19.

Rhine, Franklin E., Alton, assignor to Sterling Steel Casting Co., Monsanto, Ill. Idler wheel unit. 2,666,676, Jan. 19.

Richards, Sherman L., North Tonawanda, and W. H. Devonshire, Kenmore, assignors to Columbus McKinnon Chain Corporation, Tonawanda, N. Y. Traction chain. 2,666,471, Jan. 19.

Richardson, Dow C., Metropolis, Ill. Hydraulically operated log kicker. 2,666,462, Jan. 19.

Richardson, Ralph S., Sweet Home, Oreg. Gang saw swaging machine. 2,666,347, Jan. 19.

Richey, David M., Devon, assignor to United Aircraft Corporation, East Hartford, Conn. Stabilizing fins for missiles. 2,666,387, Jan. 19.

Richmond, Nelson R., Thompsonville, assignor to United Aircraft Corporation, East Hartford, Conn. Auxiliary drive for propeller pitch control. 2,666,490, Jan. 19.

Richmond, Robert P., Baltimore, Md., assignor to Standard Oil Development Company. Expansion joint. 2,666,454, Jan. 19.

Richter, Ludwig, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Azo dyes for cellulosic fibers. 2,666,757, Jan. 19.

Rickmeyer, Ernst W., Prospect Heights, Ill., assignor to The Parker Pen Company, Janesville, Wis. Writing instrument. 2,666,416, Jan. 19.

Ridge Tool Company, The, assignee: *See*—
Ingwer, Carl H.

Riedesel, Richard G., Stillwater, T. J. Miller, St. Paul, and L. A. Martin, White Bear Township, Ramsey County, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Abrading the interior surfaces of hollow ware. 2,666,280, Jan. 19.

Rights, Herbert T., New Brunswick, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Synchroscope. 2,666,900, Jan. 19.

Riley, Joseph J., and W. S. Dustman, assignors to The Taylor-Winfield Corporation, Warren, Ohio. Voltage control circuit for welding apparatus. 2,666,888, Jan. 19.

Ring, Sidney H., Portland, Oreg. Internal-combustion engine with variable combustion chamber. 2,666,421, Jan. 19.

Riopelle, Earl F., Detroit, Mich., assignor to Morse Chain Company, Ithaca, N. Y. Bifilar centrifugal pendulum vibration damper. 2,666,341, Jan. 19.

Riviere, George H., New Iberia, La. Signaling device. 2,666,408, Jan. 19.

Robertson, Nat C., and J. W. Walker, Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y. Separation of n-propyl and sec. butyl alcohols by azeotropic distillation. 2,666,736, Jan. 19.

Robinette, Willard C., South Pasadena, Calif. Paper web guide. 2,666,598, Jan. 19.

Robinson, Harold A., and R. H. Briggs, assignors to The Dow Chemical Company, Midland, Mich. Recording titration apparatus. 2,666,691, Jan. 19.

Robotron Corporation, assignee: *See*—
Rockafellow, Stuart C.

Rockafellow, Stuart C., Farmington, assignor to Robotron Corporation, Detroit, Mich. Electric arc device. 2,666,887, Jan. 19.

Rockwell Spring and Axle Company, assignee: *See*—
Brownyer, Nelson R.

Roehrig, Frederick L. O., Yucaipa, Calif. Dual camera. 2,666,374, Jan. 19.

Rogers, Dilworth T.: *See*—
Munday, John C., and Rogers.

Rogers, William J.: *See*—
Kridel, Donald J., Bean, and Rogers.

Rohr Aircraft Corporation, assignee: *See*—
Gross, Bernard.
Smith, Paul F.

Röhrig, Heinz: *See*—
Junkmann, Karl, and Röhrig.

Rolf, Erich, Nurnberg, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Erlangen, Germany. Synchronous contact device for electric contact converters. 2,666,820, Jan. 19.

Root, Elihu, III, Springfield, Vt. Optical measuring apparatus. 2,666,267, Jan. 19.

Rorig, Kurt, assignor to G. D. Searle & Co., Chicago, Ill. α,β-(polyhydroxyaryl)-alkanamides and their production. 2,666,789, Jan. 19.

Rosebrook, Homer E., assignor to Gibson Refrigerator Company, Greenville, Mich. Refrigerator cabinet. 2,666,300, Jan. 19.

Rosenburgh, Norman J., and E. B. Schoonmaker, assignors to Eastman Kodak Company, Rochester, N. Y. Film alarm system for photographic apparatus. 2,666,596, Jan. 19.

Rosenwald, Robert H., Western Springs, and J. A. Chenicek, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Stabilization of edible oils and fats. 2,666,709, Jan. 19.

Ross, Percy N., assignee: *See*—
Johnson, Melvin C.

Rothweiler, Charles O., assignor to David White Company, Milwaukee, Wis. Adjustable bearing. 2,666,675, Jan. 19.

Ruark, Charles D., assignor of fifty percent to I. D. Ruark, Chase, Kans. Building structure. 2,666,507, Jan. 19.

Ruark, Ira D., assignee: *See*—
Ruark, Charles D.

Rubach, Alexander: *See*—
Withers, John G., Hulf, and Rubach.

Rudy, Walter: *See*—
Krah, Edward and C., and Rudy.

Ruegsegger, Donald R., St. Clair Shores, Mich. Fusible fastener. 2,666,488, Jan. 19.

Ruge, Arthur C., Cambridge, Mass., assignor to Baldwin-Lima-Hamilton Corporation. Condition responsive apparatus. 2,666,262, Jan. 19.

Ruhrchemie Aktiengesellschaft, assignee: *See*—
Feichtinger, Hans, Kolling, and Puschhof.

Ruiz, Raymond R., and F. A. Smith, Bronx, assignors of one-fourth to J. Cervone and one-fourth to J. Plumer, New York, N. Y. Combination rosette maker and flower holder. 2,666,249, Jan. 19.

Runke, Sidney M., Rapid City, S. Dak., assignor to the United States of America as represented by the Solicitor of the Department of the Interior. Beneficiation of beryllium ores by froth flotation. 2,666,587, Jan. 19.

Ruthruff, Ward, executor: *See*—
Bussard, Kyffin T.

Ryan, Edward J., Elizabeth, N. J., and W. C. Van Siclen, Douglaston, N. Y., assignors to Standard Oil Development Company. Packaging method. 2,666,523, Jan. 19.

Rymland, Murray J., assignee: *See*—
Gauci, Joseph, and Mueller.

Sadler, Harry J., and E. E. Cook, Minneapolis, Minn. Pump construction. 2,666,394, Jan. 19.

Sandberg, Ray A., Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Straight pull brake lever structure. 2,666,338, Jan. 19.

Sapolin Paints, Inc., assignee: *See*—
Engel, John P.

Schack, Carl H., Salt Lake City, Utah, and K. C. Dean, Mexico City, Mexico, assignors to the United States of America as represented by the Solicitor of the Department of the Interior. Flotation process for separation of silica and rhodonite. 2,666,588, Jan. 19.

Schaelchlin, Walter, Buffalo, A. J. Winchester, Jr., Lockport, N. Y., and J. C. Ponstingl, Parma, Ohio, assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Control system. 2,666,913, Jan. 19.

Scheidt, Joseph, and L. A. Teegardin, Streator, Ill. Coin-wrapping device. 2,666,284, Jan. 19.

Schering A. G., assignee: *See*—
Junkmann, Karl, and Röhrig.

Schmid, John H., assignor to J. A. Zurn Mfg. Co., Erie, Pa. Sealed connection for wall closet fittings. 2,666,211, Jan. 19.

Schnaitter, Irvine K., Cleveland Heights, Ohio. Inclined bed rest. 2,666,216, Jan. 19.

Schneider, Anthony M., Detroit, and J. A. Olivier, Grosse Pointe, Mich. Hearse having reversible casket table. 2,666,666, Jan. 19.

Schneider, Gerald W.: *See*—
Schneider, Kenneth E. and G. W.

Schneider, Kenneth E. and G. W., Borger, Tex. Bracing system for a mason's guide line supporting column. 2,666,260, Jan. 19.

Schnell, Homer A., Filer, Idaho. Corrugator plow. 2,666,377, Jan. 19.

Schoonmaker, Edward B.: *See*—
Rosenburgh, Norman J., and Schoonmaker.

Schubert, Dale L., assignor to Plywood Research Foundation, Tacoma, Wash. Sheet clipping and classifying apparatus. 2,666,484, Jan. 19.

Schuftan, Paul M., Richmond Hill, assignor to The British Oxygen Company Limited, London, England. Apparatus for the separation of gas mixtures by liquefaction and rectification. 2,666,303, Jan. 19.

Schultz, Leonard A., Morganville, N. J. Boiler. 2,666,419, Jan. 19.

Schwarz, Herbert F.: *See*—
Grummitt, Oliver J., Blank, and Schwarz.

Schwarz, Richard J., Lombard, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Safety handle structure for straight pull brake levers. 2,666,339, Jan. 19.

Schweizerische Lokomotiv- und Maschinenfabrik, assignee: *See*—
Weber, Arnold.

Scott-Atwater Manufacturing Company, assignee: *See*—
Armstrong, Daniel A., and Raleigh.

Scott, Howard: *See*—
Bechtold, James H., Lustman, and Scott.

Scovill, Warner E., Lakewood, assignor to The Standard Oil Company, Cleveland, Ohio. Treating hydrocarbons. 2,666,733, Jan. 19.

Scruggs, Charles H., Tampa, Fla. Feeding device for animals such as quail. 2,666,415, Jan. 19.

Seamon, Louis, Brooklyn, N. Y. Anchor means for wallet pockets. 2,666,467, Jan. 19.

Searle, G. D., & Co., assignee: *See*—
Colton, Frank B.
Cusic, John W.
Rorig, Kurt.

Sears, Daniel S., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Reaction product of silicon monoxide and ammonia and rubber compositions containing the same. 2,666,754, Jan. 19.

Segal, Samuel, New York, N. Y. Lock. 2,666,661, Jan. 19.

Seulen, Gerhard, and F. Alf, Remscheid-Hasten, assignors to Deutsche Edelstahlwerke Aktiengesellschaft, Krefeld, Germany. Producing tubes from strip material. 2,666,831, Jan. 19.

Shabica, Anthony C.: *See*—
Lanzilotti, Anthony E., Shabica, and Ziegler.

Sharat, Julius, assignor, by mesne assignments, to E. F. Svec, New York, N. Y. Pouch with sliderless fastener closure. 2,666,466, Jan. 19.

Shell Development Company, assignee: *See*—
Hurd, Charles O.

Sheppard, Raymond, Schenectady, and P. G. Ipsen, Niskayuna, N. Y., assignors to General Electric Company. Valve actuating mechanism. 2,666,452, Jan. 19.

Sherman, Russell J., Great Neck, N. Y. Molding apparatus for molding material. 2,666,230, Jan. 19.

Sherman, Vernon C., Plymouth, and B. H. Cole, Carver, Mass. Machine for applying straps to containers. 2,666,381, Jan. 19.

Sherva, Clara, Portland, Oreg. Patient's urinal. 2,666,209, Jan. 19.

Sherwin-Williams Company, The, assignee: *See*—
Grummitt, Oliver J., Blank, and Schwarz.

Shockley, William, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor translating device. 2,666,814, Jan. 19.

Shockley, William, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transistor amplifier. 2,666,818, Jan. 19.

Shoemaker, Robert C., assignor to Hyster Company, Portland, Oreg. Fair-lead. 2,666,532, Jan. 19.

Shwayder, Benjamin, Detroit, assignor to Shwayder Brothers, Ecorse, Mich. Folding chair brace. 2,666,478, Jan. 19.

Shwayder Brothers, assignee: *See*—
Adler, John B.
Shwayder, Benjamin.

Sibley, James F., Griffin, Ga. Motor control system for knitting machines. 2,666,313, Jan. 19.

Siddiqui, Salimuzzaman, and D. C. Dhar, Delhi, assignors to Council of Scientific and Industrial Research, New Delhi, India. Patent leather and coating composition for use in making same. 2,666,717, Jan. 19.

Sieloff, Elynor M., Detroit, Mich. Sprinkling can. 2,666,668, Jan. 19.

Siemens-Schuckertwerke Aktiengesellschaft, assignee: *See*—
Rolf, Erich.

Sigoda, Victor J., Great Neck, assignor to Man-Sew Corporation, New York, N. Y. Pinking mechanism. 2,666,483, Jan. 19.

Sigoda, Victor J., Great Neck, assignor to Man-Sew Corporation, New York, N. Y. Ledger blade for pinking mechanisms. 2,666,486, Jan. 19.

Simmons Company, assignee: *See*—
Taylor, Thomas S.

Sinclair, Harold, London, England. Electric motor drive for differential gearing. 2,666,876, Jan. 19.

Singer Manufacturing Company, The, assignee: *See*—
Enos, John P.

Sinbel, Nicholas S., Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y. Device for positioning articles by coaction with apertures or recesses therein. 2,666,266, Jan. 19.

Skinner, Davis A., Compton, assignor to Union Oil Company of California, Los Angeles, Calif. Manufacture of crystalline ammonium sulfite monohydrate. 2,666,687, Jan. 19.

Skok, Lawrence, Euclid, Ohio. Means for embodying fruit in decorative designs in brick ice cream. 2,666,397, Jan. 19.

Skorecki, Jan, Burnley, assignor to Joseph Lucas Limited, Birmingham, England. Jet pipe having a discharge end portion of variable cross sectional area. 2,666,291, Jan. 19.

Skousgaard, Elmer C., Los Angeles, Calif. Container and discharge valve therefor. 2,666,297, Jan. 19.

Slade, Bernard N., Morristown, N. J., assignor to Radio Corporation of America. High current gain semiconductor device. 2,666,873, Jan. 19.

Slaughter, Bernard J., Jr., assignor to The Crane & Breed Casket Company, Cincinnati, Ohio. Latch for caskets. 2,666,248, Jan. 19.

Smith, Alexander G.: *See*—
Clogston, Albert M., and Smith.

Smith, Clifford R., Chamblee, Ga. Preparation for mange and fungus eczema. 2,666,728, Jan. 19.

Smith, Fred A.: *See*—
Ruiz, Raymond R., and Smith.

Smith, James J., Baltimore, Md. Indicator ring. 2,666,581, Jan. 19.

Smith, Milton E., Logan, Iowa. Fishing plug. 2,666,275, Jan. 19.

Smith, Paul F., Los Angeles, assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Lead-in terminal. 2,666,805, Jan. 19.

Smith, Robert L., assignor to Plywood Research Foundation, Tacoma, Wash. Sorter control device. 2,666,536, Jan. 19.

Smullin, Louis D., Detroit, Mich. Electronic frequency vernier. 2,666,899, Jan. 19.

Societe Anonyme pour les Applications de l'Electricite et des Gaz Rares-Etablissements Claude-Paz & Silva, assignee: *See*—
Kayser, Daniel.

Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., assignee: *See*—
Chabay, Marcel R. A.

Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, assignee: *See*—
Garnier, Henri L., and Marchal.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Bergstrom, Eric V.
Payne, John W.

Sokolik, Edward, New Brighton, Minn. Laundry flatiron. 2,666,274, Jan. 19.

Spaenig, Hermann: *See*—
Hopff, Heinrich, and Spaenig.

Specialized Instruments Corporation, assignee: *See*—
Pickels, Edward G.

Spencer, Burdell D., Oxon Hill, Md. Making lasts. 2,666,464, Jan. 19.

Spirella Company, Incorporated, The, assignee: *See*—
Ongley, George E.

Spraying Systems Co., assignee: *See*—
Wahlin, Fred W.

Sproul, John C., assignor to Mavor & Coulson, Limited, Glasgow, Scotland. Mining machine with superposed wedge-like cutter. 2,666,628, Jan. 19.

Sproul, John C., Glasgow, Scotland, assignor to Mavor & Coulson, Limited. Adjustable cutter for strip mining machines. 2,666,629, Jan. 19.

Sproul, John C., assignor to Mavor & Coulson, Limited, Glasgow, Scotland. Mining machine. 2,666630, Jan. 19.

Spurr, Robert: *See*—
Barnes, Alfred A., and Spurr.

Staege, Setphen A., Hamilton, and J. H. Pearson, Middletown, assignors to The Black-Clawson Company, Hamilton, Ohio. Paper machinery. 2,666,368, Jan. 19.

Stahlecker, Wilhelm, Tubingen, assignor to Vereinigte Kugellagerfabriken Aktiengesellschaft, Schweinfurt, Germany. Roller guide means. 2,666,231, Jan. 19.

Standard Oil Company, The, assignee: *See*—
McConnell, Elliott B.
Scovill, Warner E.

Standard Oil Development Company, assignee: *See*—
Bartlett, Jeffrey H.
Cahn, Robert P., and Etherington.
Ford, Ian A. M.
Morrell, Charles E., Carlson, and Porter.
Mullen, Leo V., Jr., and Boyle.
Munday, John C., and Rogers.
Odell, William W., and Matheson.
Packie, John W.
Richmond, Robert P.
Ryan, Edward J., and Van Siclen.
Welge, Henry J., and West.
Zapp, Robert L.

Standish, Edward K., Stoughton, Mass., assignor, by mesne assignments, to Filmsort Inc. Card preparing machine. 2,666,543, Jan. 19.

Stanley Engineering Company Limited, The, assignee: *See*—
Hewson, Robert P.

Stanton, Philip L., La Canada, assignor to E & J Manufacturing Co., Burbank, Calif. Mask for administering anesthesias. 2,666,432, Jan. 19.

Staten Frame Manufacturing Company, Inc., assignee: *See*—
Fortner, Thelma I.

Steadman, Thomas R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparation of unsaturated primary aromatic alcohols. 2,666,795, Jan. 19.

Steen, Cora A., Inglewood, Calif. Flatiron rest for ironing boards. 2,666,606, Jan. 19.

Stein, Leo, Chicago, Ill. Luggage frame having locking hinge structure. 2,666,227, Jan. 19.

Steinberg, George M., Baltimore, Md., assignor to the United States of America as represented by the Secretary of the Army. Synthesis of organic phosphates. 2,666,778, Jan. 19.

Steiner, Lajos, Neutral Bay, New South Wales, Australia. Locking device with slider. 2,666,242, Jan. 19.

Stepper, Rudolf, Seattle, Wash. Broom or brush holder. 2,666,221, Jan. 19.

Sterling Steel Casting Co., assignee: *See*—
Rhine, Franklin E.

Stevens, Roy R., Forest Hills, Pa., assignor to Westinghouse Air Brake Company. Fluid pressure engine compounding and speed control apparatus. 2,666,295, Jan. 19.

Stewart, Elliott W., Chicago, Ill., assignor to Associated Spring Corporation, Bristol, Conn. Manufacturing helical coil compression springs. 2,666,723, Jan. 19.

Stewart, Wilson M., Ottawa, Ontario, Canada. Coin-controlled actuator. 2,666,514, Jan. 19.

Stibitz, George R., Boonton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic calculator. 2,666,579, Jan. 19.

Stiebel, Theodor, Holzminden, Germany. Electric controller for heating elements. 2,666,836, Jan. 19.

Stone, Burnham E., assignor to The International Electronics Company, Philadelphia, Pa. Reversible drive control for tape record feeding mechanisms. 2,666,593, Jan. 19.

Storment, Joseph E., Kansas City, Mo., assignor to Phillips Petroleum Company. Dewaxing process. 2,666,730, Jan. 19.

Stott, Albert M., Aldan-Clifton Heights, Pa. Static torsion testing machine and specimen. 2,666,324, Jan. 19.

Stover, Harry E., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio. Closure cap feeding device. 2,666,563, Jan. 19.

Strehlow, Richard A., Champaign, and W. A. Helby, Chicago, Ill. Game board apparatus. 2,666,644, Jan. 19.

Strobel, Albert F.: *See*—
Williams, William W., and Strobel.

Strong, Walter J., Cuyahoga Falls, and R. E. Lindemann, Leroy, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Apparatus for stripping molded articles from molds. 2,666,228, Jan. 19.

Stuart, Robert W., Columbus, Ohio. Wheel stretcher with patient retaining means. 2,666,217, Jan. 19.

Stump, Clare A., Jr.: *See*—
Austin, Bascum O., Jessee, and Stump.

Stutsman, Paul W., Needham, assignor to Raytheon Manufacturing Company, Newton, Mass. Gaseous-discharge device. 2,666,880, Jan. 19.

Superior Tea and Coffee Company, The, assignee: *See*—
Kaminky, Herbert E.

Sutch, Creston, Glenside, Pa. Dental burr cleaner and sterilizer. 2,666,220, Jan. 19.

Sutcliffe, Arthur: *See*—
Butler, Edward S., and Sutcliffe.

Sutton, Myer S., assignor to The U. S. Thermo Control Co., Minneapolis, Minn. Refrigerator defrosting control. 2,666,299, Jan. 19.

Svec, Emil F., assignee: *See*—
Sharat, Julius.

Syreeni, Otto, Helsinki, Finland. Determining and mixing colors. 2,666,715, Jan. 19.

Talbert, Norwood K., Yorklyn, Del., assignor to Phillips Petroleum Company. Desulfurization of hydrocarbons by extraction with phenylacetonitrile. 2,666,794, Jan. 19.

Talon, Inc., assignee: *See*—
Carlile, Alfred E.
Tammi, George H., Huntington Park, Calif. Container-piercing liquid dispenser. 2,666,553, Jan. 19.
Tanners' Research Corporation, assignee: *See*—
Griffin, Robert H.
Taylor, Louis E., Maplewood, Mo. Calendar handling machine. 2,666,638, Jan. 19.
Taylor, Thomas S., Caldwell, N. J., assignor to Simmons Company, New York, N. Y. Test mattress. 2,666,327, Jan. 19.
Taylor-Wharton Iron and Steel Company, assignee: *See*—
Pryor, William M.
Taylor-Winfield Corporation, The, assignee: *See*—
Riley, Joseph J., and Dustman.
Teague, Walter D., Jr., Alpine, assignor to Bendix Aviation Corporation, Teterboro, N. J. Valve means for controlling two independent sources of pressurized fluid. 2,666,449, Jan. 19.
Teegardin, Lester A.: *See*—
Scheidt, Joseph, and Teegardin.
Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Door lock and latch. 2,666,320, Jan. 19.
Telsen, Mogens R. G., Copenhagen, Denmark, assignor to H. and B. Nielsen, New York, N. Y. Device having slidable and rotary parts. 2,664,420, Jan. 19.
Telefonaktiebolaget L. M. Ericsson, assignee: *See*—
Ericsson, Eric A., Jorgensen, and Overby.
Television Accessories, assignee: *See*—
Davis, John W.
Temple, Robert, Swissvale, Pa., assignor to Temple Velocity Equipment, Inc., Wilmington, Del. Fastening sheet material to supports. 2,666,252, Jan. 19.
Temple Velocity Equipment, Inc., assignee: *See*—
Temple, Robert.
Tenoort, Karl H., Berlin-Neukolln, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Differential latch mechanism. 2,666,573, Jan. 19.
Tesla slaboproude a radiotechnicke zavody, narodni podnik, assignee: *See*—
Carniol, Bohdan.
Thau-Jensen, Orla, Hurup, Thy, Denmark. Handpiece for rotary tools, especially for dentists' use. 2,666,259, Jan. 19.
Thayer, Inc., assignee: *See*—
Wiley, Harry A.
Thomas, Raymond H.: *See*—
Howard, John G., and Thomas.
Thompson Electric Company, The, assignee: *See*—
Farrington, Robert K. and T. B., and Kurzenberger.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Variable light-modifying device for phase contrast. 2,666,362, Jan. 19.
Times Facsimile Corporation, assignee: *See*—
Cooley, Austin G.
Tocci-Guilbert, Berne, assignor to Berne Tocci-Guilbert, San Francisco, and H. G. Hardy, Berkeley, Calif., jointly as trustees. Back pad. 2,666,281, Jan. 19.
Toledo Plate & Window Glass Company, The, assignee: *See*—
Kelly, Ogilvie C.
Toledo Scale Company, assignee: *See*—
Williams, Lawrence S.
Transamerican Mercantile Corporation, assignee: *See*—
Dasch, Benno.
Trelease, Charles C., trustee, assignee: *See*—
Ward, Lawrence T.
Trico Products Corporation, assignee: *See*—
Rappl, Anton.
Triplett Electrical Instrument Company, The, assignee: *See*—
Gerlach, Carl F.
Trishman, Lawrence E., Beaver, assignor to The National Supply Company, Pittsburgh, Pa. Apparatus for cold rolling threads. 2,666,348, Jan. 19.
Tri-State Engineering Company, assignee: *See*—
Colt, Burton C., Jr.
Troeger, Henry, Ramsey, and R. M. Flanagan, Morris Plains, assignors to Bendix Aviation Corporation, Teterboro, N. J. Self-priming centrifugal pump. 2,666,393, Jan. 19.
True, Max M., Tulsa, Okla. Gun for homogenizing and aerating a flowing stream of plasticized adhesive material. 2,666,626, Jan. 19.
Trurnit, Hans J., Edgewood, Md. Studying chemical reactions by measuring interfacial film thicknesses. 2,666,355, Jan. 19.
Uher, Edmond, Paris, France. Rotary cylinder lock provided with flat tumbler elements. 2,666,322, Jan. 19.
Ulich, Lynne H., Woodstown, N. J., and W. R. Waldron, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of 2,2'-dimethyl-1,1'-dianthraquinonyl. 2,666,768, Jan. 19.
Union Carbide and Carbon Corporation, assignee: *See*—
Hosfield, Lee C.
Union Oil Company of California, assignee: *See*—
Grenall, Alexander.
Skinner, Davis A.
United Aircraft Corporation, assignee: *See*—
Richey, David M.
Richmond, Nelson R.
United Engineering & Foundry Company, assignee: *See*—
Biggert, Florence C., Jr.
United Shoe Machinery Corporation, assignee: *See*—
Eppler, Andrew, Jr.
Johnson, Charles A.
Maeser, Mieth.
United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Avery, Robert T.
Borkowski, Casimer J.
United States Rubber Company, assignee: *See*—
Kulka, Marshall, and Manske.
Mankowich, Ivan.
United States Testing Company, Incorporated, assignee: *See*—
McAndrew, Richard T.
U. S. Thermo Control Co., assignee: *See*—
Jones, Frederick M.
U. S. Thermo Control Co., The, assignee: *See*—
Sutton, Myer S.
Universal Oil Products Company, assignee: *See*—
Chenicek, Joseph A.
Frandsen, Walter N.
Hoekstra, James.
Pines, Herman, and Kvetinskas.
Rosenwald, Robert H., and Chenicek.
Valko, Emery I., Mountain Lakes, N. J., assignor to E. F. Drew & Co., Inc., New York, N. Y. Polyethylene glycol esters in fat. 2,666,706, Jan. 19.
Van Brode Milling Co., Inc., assignee: *See*—
Brody, David.
Vanderzee, Harry H., Racine, Wis., and R. A. McCallum, Clarendon Hills, Ill., assignors, by mesne assignments, to AMI Incorporated. Record changer. 2,666,649, Jan. 19.
Van Orden, Howard J., Paterson, N. J. Nail driver. 2,666,201, Jan. 19.
Van Ryan, Anthony, South Milwaukee, assignor to McGraw Electric Company, Milwaukee, Wis. Circuit interrupter. 2,666,827, Jan. 19.
Van Sicien, William C.: *See*—
Ryan, Edward J., and Van Sicien.
Vereinigte Kugellagerfabriken Aktiengesellschaft, assignee: *See*—
Stahlecker, Wilhelm.
Victoreen, John A., Cleveland, Ohio. Electric battery and making same. 2,666,801, Jan. 19.
Vigneau, Marcel V., Suresnes, France. Rotary pump and motor hydraulic transmission. 2,666,293, Jan. 19.
Vogel, Edward A., Glen Ellyn, assignor to K. A. Vogel Sons, Chicago, Ill. Shears with replaceable blades. 2,666,258, Jan. 19.
Vogel, K. A., Sons, assignee: *See*—
Vogel, Edward A.
Vogt, Clarence W., Norwalk, Conn. Method and apparatus for producing accurately measured plastic masses. 2,666,229, Jan. 19.
Vogt, Clarence W., Norwalk, Conn. Production of plastic masses. 2,666,400, Jan. 19.
W-K-M Company, assignee: *See*—
Laurent, Milton P.
Wacker-Chemie G. m. b. H., assignee: *See*—
Nitzsche, Siegfried.
Wagner, E. R., Manufacturing Company, assignee: *See*—
Miller, Lester C.
Wagner, Theodore: *See*—
Bossert, Norman K., and Wagner.
Wahlin, Fred W., Oak Park, assignor to Spraying Systems Co., Bellwood, Ill. Single inlet whirl chamber nozzle. 2,666,669, Jan. 19.
Waldron, William R.: *See*—
Ulich, Lynne H., and Waldron.
Walker, Harry M., Dickinson, Tex., assignor to Monsanto Chemical Company, St. Louis, Mo. Acetylene solution. 2,666,742, Jan. 19.
Walker, James W.: *See*—
Robertson, Nat C., and Walker.
Walker, William C.: *See*—
Zettlemoyer, Albert C., and Walker.
Wall, Monroe E., Oreland, Pa., assignor to the United States of America as represented by the Secretary of Agriculture. Alkaline cleavage of pseudosapogenin oxidation products. 2,666,770, Jan. 19.
Wallace, James M., East McKeesport, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Plural phase reclosing circuit breaker. 2,666,825, Jan. 19.
Wallace, Robert L., Jr.: *See*—
Raisbeck, Gordon, and Wallace.
War, United States of America as represented by the Secretary of, assignee: *See*—
Chance, Britton, and Greenwood.
Clogston, Albert M., and Smith.
Cooper, Lyle M.
Hollingsworth, Lowell M.
Kraus, John D.
Ward, Howard L., Evansville, Ind. Peg and ring game apparatus. 2,666,642, Jan. 19.
Ward, Lawrence T., Philadelphia, Pa., assignor, by mesne assignments, to C. C. Trelease, Newark, N. J., as trustee. Fluid dispenser. 2,666,667, Jan. 19.
Watson-Williams Manufacturing Company, assignee: *See*—
Blanchard, Joseph E.
Weatherby Bros., assignee: *See*—
Weatherby, John H.

Weatherby, John H., assignor to Weatherby Bros., Natick, Mass. Athletic supporter. 2,666,431, Jan. 19.
Weber, Arnold, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland. Ventilating and filtering system for diesel-electric driven locomotives. 2,666,497, Jan. 19.
Webster-Chicago Corporation, assignee: *See*—
Dale, Colin B.
Weidmann, Silvio, Bern, Switzerland, assignor, by mesne assignments, to Radio Patents Company, New York, N. Y. Oscillographic polarograph. 2,666,891, Jan. 19.
Weinfurt, William J., Wauwatosa, and A. G. Bale, Jr., assignors to McGraw Electric Company, Milwaukee, Wis. Automatic control means. 2,666,860, Jan. 19.
Weinmayr, Viktor, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. N-substituted aminophenols and aminophenyl ethers. 2,666,791, Jan. 19.
Welch, Nicholas A., West Hartford, assignor to The American Hardware Corporation, New Britain, Conn. Combined lock and seal device. 2,663,318, Jan. 19.
Welge, Henry J., and R. C. West, Tulsa, Okla., assignors to Standard Oil Development Company. Oil well coring method. 2,666,620, Jan. 19.
Welker, Nels C., Portland, Oreg. Adjustable garment hanger. 2,666,561, Jan. 19.
Wernlund, Roger F.: *See*—
Ehret, Robert J., and Wernlund.
West, Robert C.: *See*—
Welge, Henry J., and West.
West, William, assignor to Eastman Kodak Company, Rochester, N. Y. Optical sensitization of photomechanical resists. 2,666,701, Jan. 19.
Western Electric Company, Incorporated, assignee: *See*—
Bachus, Benson F.
Bunch, Tillman T.
Laver, Frank.
McCain, Cecil C.
McCoy, Clarence E., and Wright.
Morberg, Ivar A.
Sinhel, Nicholas S.
Williams, Edwin K., and Wright.
Western Engineering Trust, assignee: *See*—
Nardulli, Michael J.
Western Precipitation Corporation, assignee: *See*—
Hull, William F.
Western Supplies Company, assignee: *See*—
Altvater, Adolf H.
Westinghouse Air Brake Company, assignee: *See*—
Alexander, Kenneth A.
Bent, Arthur J.
McCune, Joseph C.
Stevens, Roy R.
Westinghouse Electric Corporation, assignee: *See*—
Austin, Bascum O., and Jessee.
Austin, Bascum O., Jessee, and Stump.
Bechtold, James H., Lustman, and Scott.
Bradley, Schuyler L., and Nichols.
Byerley, Wilbur M.
Dorfman, Hiller D.
Dyer, Lloyd W., and Dorfman.
Farrell, James A.
Fisher, Martin H.
Godsey, Frank W., Jr., and Jones.
Harding, William R., Kimball, and Opel.
Hunter, Lloyd P.
Longini, Richard L.
Packard, Alden.
Pasculle, Maurice J.
Purifoy, George R.
Rights, Herbert T.
Wallace, James M.
Williams, Frank E.
Wexler, Benjamin and M. C., Philadelphia, Pa. Collapsible dress form. 2,666,559, Jan. 19.
Wexler, Benjamin and M. C., Philadelphia, Pa. Collapsible garment hanger and form. 2,666,560, Jan. 19.
Wexler, Marvin C.: *See*—
Wexler, Benjamin and M. C.
Weyerhaeuser Timber Company, assignee: *See*—
Collins, Ernest H.
Weyerhaeuser Timber Company, assignee: *See*—
Heritage, Clark C.
Wheeler, John M., Greeley, Colo. Bomb fuze. 2,666,388, Jan. 19.
Whitcher, Roy S., Mount Clear, via Ballarat, and G. O. Wyatt, Ivanhoe, Victoria, Australia. Device for handling eggs. 2,666,665, Jan. 19.
White, David, Company, assignee: *See*—
Collins, Harry J.
Rothweiler, Charles O.
White, Robert E., St. Cloud, Minn. Curtain. 2,666,481, Jan. 19.
White, William W., Evanston, Ill. Tool for brake shoe retracting springs. 2,666,256, Jan. 19.
Whitney, William B., Bartlesville, Okla., assignor to Phillips Petroleum Company. Thermoresponsive color change control device. 2,666,583, Jan. 19.
Wiitala, Edwin S.: *See*—
Kridel, Donald J., and Wiitala.
Wiley, Harry A., Gardner, assignor to Thayer, Inc., Gardner, Mass. Combined child's training seat and step-stool. 2,666,210, Jan. 19.
Wilkirson, Jim P., Waco, Tex. Steering mechanism for outboard motors. 2,666,407, Jan. 19.
Williams, Edwin K., Indianapolis, Ind., and B. L. Wright, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for coating cup-shaped articles. 2,666,411, Jan. 19.
Williams, Frank E., McKeesport, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Auxiliary commutating-field winding. 2,666,881, Jan. 19.
Williams, George W., assignee: *See*—
Ames, Robert G.
Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Hydraulic scale check link. 2,666,634, Jan. 19.
Williams, Owen E.: *See*—
Alexander, William R., Williams, Dawson, and Bentz.
Williams, William W., Eaton, Pa., and A. F. Strobe, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Dibenzyl derivatives of hydroxy alkyl substituted aliphatic diamines. 2,666,790, Jan. 19.
Willison, Ralph E., North Branch, N. J., assignor to Research Corporation, New York, N. Y. System for energizing electrical precipitators and the like. 2,666,496, Jan. 19.
Willson, David S.: *See*—
Woodford, Joseph C., and Willson.
Wilson, John M., Glasgow, Scotland. Mold for molding concrete blacks. 2,666,247, Jan. 19.
Wilson, Ted R., assignor to Boeing Airplane Company, Seattle, Wash. Float switch. 2,666,823, Jan. 19.
Winchester, Amos J., Jr.: *See*—
Schaelchlin, Walter, Winchester, and Ponstingl.
Winfield, Walter A.: *See*—
Gackl, Leonard W., and Winfield.
Wirth, Max M., and W. J. Oldham, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Production of phosphorus esters from hydroperoxide. 2,666,779, Jan. 19.
Withers, John G., and H. J. Hulf, Sunbury-on-Thames, and A. Rubach, Feltham, assignors to Anglo-Iranian Oil Company Limited, London, England. Electronic selection of a combustion point or similar point on a wave. 2,666,325, Jan. 19.
Wittmayer, Sandor A., New York, N. Y. Swing frame changing ring. 2,666,305, Jan. 19.
Wolowitz, William H., Washington, D. C. Identification card or the like. 2,666,655, Jan. 19.
Wood, Frank J., Spokane, Wash., assignor to E. Loewy, New York, N. Y. Web tension control. 2,666,597, Jan. 19.
Wood, John, Company, assignee: *See*—
Woodford, Joseph C., and Willson.
Wood, William H., University Heights, assignor to Harris-Seybold Company, Cleveland, Ohio. Manufacture of acids and salts from gums. 2,666,759, Jan. 19.
Woodford, Joseph C., Spring Lake, and D. S. Willson, Muskegon Heights, Mich., assignors to John Wood Company. Fluid dispensing apparatus for high and low pressure ranges. 2,666,446, Jan. 19.
Woodring, William B., Hamden, and W. W. Eaton, Milford, assignors to Olin Industries, Inc., New Haven, Conn. Lamellate flat cell. 2,666,802, Jan. 19.
Woods, Robert C.: *See*—
Fua, Frederic, and Woods.
Worthington Corporation, assignee: *See*—
Hartwell, George W.
Kenworthy, Clarence S., and Blessing.
McMullen, James F.
Wright, Ben L.: *See*—
McCoy, Clarence E., and Wright.
Williams, Edwin K., and Wright.
Wulff, Cal W., Chicago, Ill., assignor to Holland Company. Vehicle spring suspension. 2,666,636, Jan. 19.
Wunderly, Harry L., Cuyahoga Falls, assignor to The General Tire and Rubber Company, Akron, Ohio. Sponge rubber composition and making sponge rubber. 2,666,751, Jan. 19.
Wyatt, George O.: *See*—
Whitcher, Roy S., and Wyatt.
Wyman, Glenn C., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Egg poacher. 2,666,551, Jan. 19.
X-Ray Electronic Corporation, assignee: *See*—
Fua, Frederic, and Woods.
Xray Instrument Corporation, assignee: *See*—
Gackl, Leonard W., and Winfield.
Yankee Metal Products Corporation, assignee: *See*—
Putterman, Benjamin.
Youngworth, Bernard, Baltimore, Md. Gate latch. 2,666,660, Jan. 19.
Yutzy, Henry C., and G. D. Aydlett, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic copying apparatus. 2,666,384, Jan. 19.
Zapp, Robert L., Somerville, N. J., assignor to Standard Oil Development Company. Stabilization of vulcanized copolymers of isobutylene. 2,666,753, Jan. 19.
Zettlemoyer, Albert C., and W. C. Walker, Bethlehem, Pa., assignors to Food Machinery and Chemical Corporation, New York, N. Y. Catalyzing organic isomerization reactions with active magnesia. 2,666,771, Jan. 19.

Zickler, Gottfried : *See*—
Hopkins, George W., Davis, and Zickler.
Ziegler, John B. : *See*—
Lanzilotti, Anthony E., Shabica, and Ziegler.
Zimmerman, Richard, assignee : *See*—
Bender, Robert W.
Ziskin, Manuel S., University Heights, and R. B. Billig, Erieside, assignors to Kromex Corporation, Cleveland, Ohio. Teakettle. 2,666,556, Jan. 19.
Zuckerman, Samuel G., assignor of one-half to C. H. Marks, New York, N. Y. Illuminated tweezers. 2,666,843, Jan. 19.
Zurn, J. A., Mfg. Co., assignee : *See*—
Schmid, John H.
Zwick, Kurt, assignor to H. and F. W. Deckel, Munich, Germany. Table adjusting mechanism for machine tools. 2,666,366, Jan. 19.

LIST OF PLANT INVENTIONS

Peach tree. G. Merrill. 1,245–6, Jan. 19.
Rose plant. F. Meilland. 1,244, Jan. 19.
Rose plant. J. A. Podesta. 1,243, Jan. 19.
Syringa vulgaris plant. M. Eveleens. 1,242, Jan. 19.

LIST OF DESIGN INVENTIONS

Accordion grill. D. K. Traficante. 171,316, Jan. 19.
Airplane, Remotely controlled. W. B. Bergen, J. D. Rauth, L. M. Michal, and W. W. Bender. 171,290, Jan. 19.
Bottle. J. Braun. 171,294, Jan. 19.
Box. C. M. Del Mas. 171,298, Jan. 19.
Bracelet link. T. E. Cayer. 171,296, Jan. 19.
Clip, Money. W. B. Schaefer. 171,311, Jan. 19.
Earring or the like. A. Katz. 171,300, Jan. 19.
Earring or the like. A. Philippe. 171,306, Jan. 19.
Floor mat, Reversible. T. C. Kravitz. 171,301, Jan. 19.
Guided missile. W. H. A. Boyd. 171,293, Jan. 19.
Hammer head. J. Sackstein. 171,308, Jan. 19.
Handle, Tool. J. Sackstein. 171,309, Jan. 19.
Heater, Gas fired space. E. G. and R. J. Siegler. 171,314, Jan. 19.
Helmet. V. A. d'Arbeloff. 171,297, Jan. 19.
Holder and coaster, Combined receptacle. C. R. Alvarez. 171,287, Jan. 19.
Holder, Pivoted tray. G. H. Philp. 171,307, Jan. 19.
Lamp and television antenna, Combination. C. B. Story. 171,315, Jan. 19.
Lamp base, Electric. D. Borowitz. 171,291–2, Jan. 19.
Laundry machine. R. C. Sandin. 171,310, Jan. 19.
Lawn mower, Power. G. A. Wegele. 171,318, Jan. 19.
Microscope. L. Leitz and H. Klemann. 171,302, Jan. 19.
Motor, Bicycle. S. Honda. 171,299, Jan. 19.
Ornament, Vehicle hood. T. Ornas, Jr. 171,305, Jan. 19.
Spirit level. H. M. Von Duyke. 171,317, Jan. 19.
Stapler and staple remover, Combined. H. W. Marano. 171,304, Jan. 19.
Stocking, Lady's. D. H. Setzer. 171,313, Jan. 19.
Table, Typewriter. A. W. Carlson. 171,295, Jan. 19.
Tray, Desk. W. J. Bargen. 171,288–9, Jan. 19.
Vaporizer, Electric. J. B. Schmitt and A. J. Attinger. 171,312, Jan. 19.
Wheel cover or similar article. G. A. Lyon. 171,30 Jan. 19.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 19TH DAY OF JANUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading the interior surfaces of hollow ware. R. G. Riedesel, T. J. Miller, and L. A. Martin. 2,666,280, Jan. 19.
Accessory for power transportation of chain saws. W. H. Drain. 2,666,460, Jan. 19.
Acetylene solution. H. M. Walker. 2,666,742, Jan. 19.
Acid treatment of plastic articles. Z. Meretey. 2,666,693, Jan. 19.
Acids and salts from gums, Manufacture of. W. H. Wood. 2,666,759, Jan. 19.
Adapter for phonograph records. C. B. Dale. 2,666,647, Jan. 19.
Adapter for phonograph spindles having internally powered record push-off mechanism. C. B. Dale. 2,666,648, Jan. 19
Adhesive metal foil, bottle cap thereof, and method. C. S. Price. 2,666,542, Jan. 19.
Adjustable bearing. C. O. Rothweiler. 2,666,675, Jan. 19
Adjustable garment hanger. N. C. Welker. 2,666,561, Jan. 19
Adsorption process. R. P. Cahn and L. D. Etherington. 2,666,500, Jan. 19.
Aerial top, Gyroscopic. J. H. Huff. 2,666,276, Jan. 19.
Aircraft wing mounting assembly. J. W. Holland. 2,666,602, Jan. 19.
Air lock for closed vessels, Rapid operation. R. T. Avery. 2,666,539, Jan. 19.
Air supply system, Compressed. K. A. Alexander. 2,666,568, Jan. 19.
Alarm system for photographic apparatus, Film. N. J. Rosenburgh and E. B. Schoonmaker. 2,666,596, Jan. 19.
Alkaline cleavage of pseudosapogenin oxidation products. M. E. Wall. 2,666,770, Jan. 19.
Alkenylthiophenes, Production of. H. Pines and B. Kvetinskas. 2,666,765, Jan. 19.
Alkyl esters of acrylic acids, Preparing. C. E. Brockway. 2,666,782, Jan. 19
Alkyl p-nitrophenyl benzenephosphonate. A. G. Jelinek. 2,666,727, Jan. 19.
Alloys of titanium containing aluminum and iron. R. H. Dickinson and L. S. Busch. 2,666,698, Jan. 19.
α,β-(polyhydroxyaryl)-alkanamides and their production. K. Rorig. 2,666,789, Jan. 19.
Altitude compensated control system and apparatus for aircraft engines. A. W. Blanchard. 2,666,489, Jan. 19.
Amplifier and power supply therefor, Transistor. G. Raisbeck and R. L. Wallace, Jr. 2,666,817, Jan. 19.
Amplifier employing transistors of complementary characteristics, Balanced. G. Raisbeck. 2,666,819, Jan. 19.
Amplifier, Semiconductor. L. P. Hunter. 2,666,816, Jan. 19.
Amplifier speed regulator control, Magnetic. M. H. Fisher. 2,666,878, Jan. 19.
Amplifier, Transistor. W. Shockley. 2,666,818, Jan. 19.
Anchor means for wallet pockets. L. Seamon. 2,666,467, Jan. 19.
Anchor, Studding. A. E. Hagedorn. 2,666,238, Jan. 19.
Antenna. J. D. Kraus. 2,666,850, Jan. 19.
Antenna network. J. W. Davis. 2,666,846, Jan. 19.
Apparatus for applying sticky strand material to articles. C. C. McCain. 2,666,591, Jan. 19.
Apparatus for cleaning and curing smoking pipes. B. L. Pira and L. V. Gadal. 2,666,438, Jan. 19.
Apparatus for coating cup-shaped articles. E. K. Williams and B. L. Wright. 2,666,411, Jan. 19.
Apparatus for cold rolling threads. L. E. Trishman. 2,666,348 Jan 19
Apparatus for conversion of residual oils. R. A. Findlay. 2,666,734, Jan. 19
Apparatus for fire finishing glass articles. B. A. Noble. 2,666,277, Jan. 19.
Apparatus for lifting bricks. P. F. McDonough. 2,666,663, Jan. 19
Apparatus for lifting cylindrical objects. J. J. Ferrario and J. Dondero. 2,666,541, Jan. 19
Apparatus for magnetically locating a rotor with respect to the stator. J. H. Heidorn. 2,666,892, Jan. 19.
Apparatus for making heat sealed cuffled articles. L. C. Hosfield. 2,666,472, Jan. 19.
Apparatus for measuring the magnetic susceptibility of gases. C. W. Munday. 2,666,893, Jan. 19.
Apparatus for stripping molded articles from molds. W. J. Strong and R. E. Lindemann. 2,666,228, Jan. 19.
Apparatus for testing Geiger tubes. R. L. De Voll and J. Onla. 2,666,890, Jan. 19.
Apparatus for the separation of gas mixtures by liquefaction and rectification. P. M. Schuftan. 2,666,303, Jan. 19.
Applicator for cream preparations. R. L. Hill. 2,666,555, Jan. 19.
Applying a liquid film to strip-like material. A. E. Kadell. 2,666,716, Jan. 19.
Article feeding device. C. E. McCoy and B. L. Wright. 2,666,255, Jan. 19.
Athletic supporter. J. H. Weatherby. 2,666,431, Jan. 19.
Automatic control means. W. J. Weinfurt and A. G. Bale, Jr. 2,666,860, Jan. 19.
Automatic frequency control for carrier-wave receivers. A. R. Alter. 2,666,847, Jan. 19.
Automatic machine for forming bagle-dough rings. L. Gendler and M. Lazar. 2,666,398, Jan. 19.
Automatically charging accumulator batteries, Method of and apparatus for. J. P. Guelpa. 2,666,883, Jan. 19.
Automobile mirror attaching bracket. B. Futterman. 2,666,611, Jan. 19.
Auxiliary commutating-field. M. J. Pasculle. 2,666,882, Jan. 19.
Auxiliary commutating-field winding. F. E. Williams. 2,666,881, Jan. 19.
Auxiliary drive for propeller pitch control. N. R. Richmond. 2,666,490, Jan. 19.
Awning. N. A. Odom. 2,666,236 Jan. 19
Awning with movable louvers. W. C. Bertram. 2,666,237, Jan. 19.
Aza compounds having alkoxy and cyano groups. J. R. Johnson. 2,666,758, Jan. 19.
Azo dyes for cellulosic fibers. L. Richter. 2,666,757, Jan. 19.
Back pad. B. Tocci-Guilbert. 2,666,281, Jan. 19.
Back rest, Seat. N. K. Bossert and T. Wagner. 2,666,474, Jan. 19.
Baking compositions. E. F. Glabe. 2,666,704, Jan. 19.
Balance indicator. R. B. Holt. 2,666,635, Jan. 19.
Balanced control surface. E. J. Horkey. 2,666,603, Jan. 19.
Balancing piston engines, Means for. H. L. Garnier and R. H. Marchal. 2,666,418, Jan. 19.
Ball cock, Snap action. H. J. Rand. 2,666,447, Jan. 19.
Ball valve. H. L. Paul, Jr. 2,666,617, Jan. 19.
Balloon and making. W. F. Huch and R. I. Hakomaki. 2,666,600, Jan. 19.
Band end connection. J. E. Hall, Sr. 2,666,241, Jan. 19.

Bar: *See*
Screen bar.

Bar turner, Automatic air operated. L. C. Pletsch. 2,666,534, Jan. 19.
Barbecue and range, Portable. M. B. Pollard. 2,666,426, Jan. 19.
Basket cover. K. T. Bussard. 2,666,482, Jan. 19.
Basket for silverware, Drying. J. Q. Horne, Jr. 2,666,549, Jan. 19.
Basketball goal attaching means. A. B. Bonham. 2,666,641, Jan. 19.
Battery with conductive wax intercell connections. S. Kurlandsky. 2,666,803, Jan. 19.

Bearing: *See*
Adjustable bearing.

Bearings. L. C. Miller. 2,666,677, Jan. 19.
Bed construction. D. G. Basch. 2,666,213, Jan. 19.
Bed rest, Inclined. I. K. Schmitter. 2,666,216, Jan. 19.
Bedstead fitting. C. Harris. 2,666,214, Jan. 19.
Belt tensioning device. A. N. Geyer. 2,666,333, Jan. 19.
Beneficiation of beryllium ores by froth flotation. S. M. Runke. 2,666,587, Jan 19.
Birdhouse, Collapsible. N. Burr and F. Drueck, Jr. 2,666,414, Jan. 19.

Bit: *See*
Detachable blade bit.

Board: *See*
Computer board.

Boat hull. V. C. Babcock. 2,666,406, Jan. 19.
Boiler. L. A. Schultz. 2,666,419, Jan. 19.
Bottle holder. G. R. Astleford. 2,666,613, Jan. 19.
Brace, Folding chair. B. Shwayder. 2,666,478, Jan. 19.
Bracing system for a mason's guide line supporting column. K. E. and G. W. Schneider. 2,666,260, Jan. 19.

Bracket: *See*
Automobile mirror attaching bracket

Bracket assembly for supporting yarn carriers. R. J. Good. 2,666,312, Jan. 19.

Brake: *See*—
Disk brake.

Brake. E. H. Berno and E. J. Balluff. 2,666,504, Jan. 19.
Brake for strand handling apparatus. T. T. Bunch. 2,666,289, Jan. 19.
Brake head balancing device. F. E. Bachman. 2,666,506, Jan. 19.
Brazing flux. E. S. Chamer. 2,666,725, Jan. 19.
Breech operating mechanism. C. W. Cochran, Jr. 2,666,365, Jan. 19.
Bright silver plating. O. Kardos. 2,666,738, Jan. 19.
Broom or brush holder. R. Stepper. 2,666,221, Jan. 19.
Brush, Cosmetic applying. D. Gordon. 2,666,222, Jan. 19.
Building construction, Prefabricated. E. O. Klemm. 2,666,233, Jan. 19.
Building structure. C. D. Ruark. 2,666,507, Jan. 19.
Bumper hitch, Universal. C. E. Gray. 2,666,654, Jan. 19.

Burner: *See*—
Corncob burner.

Cabinet: *See*—
Refrigerator cabinet.

Calculating device. R. A. Edwards. 2,666,575, Jan. 19.
Calculating machine having true negative totals mechanism. C. H. Carlson, N. R. Frieberg, and O. F. Larsen. 2,666,574, Jan. 19.
Calculator, Automatic. G. R. Stibitz. 2,666,579, Jan. 19.
Calendar handling machine. L. E. Taylor. 2,666,638, Jan. 19.
Calibration of instrument current transformers, Method of and apparatus for the. O. A. Knopp. 2,666,895, Jan. 19.
Camera, Dual. F. L. O. Roehrig. 2,666,374, Jan. 19.

Can: *See*
Sprinkling can.

Carbon disulfide, Production of. H. O. Folkins, E. Miller, and H. Hennig. 2,666,690, Jan. 19.
Card dealing device, Playing. F. Cicero. 2,666,646, Jan. 19.
Card dealing device, Prearranged. C. A. Phillips. 2,666,645, Jan. 19.
Card preparing machine. E. K. Standish. 2,666,543, Jan. 19.
Carton. E. C. Mulnix. 2,666,566, Jan. 19.

Case: *See*—
Thermometer case.

Casing, in particular lighter casing. A. Racek and J. Raganitsch. 2,666,547, Jan. 19.
Catalytic reactor tube assembly. E. Doiezal, H. L. Hays, G. W. McCullough, and K. H. Hachmuth. 2,666,692, Jan. 19.
Catalyzing organic isomerization reactions with active magnesia. A. C. Zettlemoyer, and W. C. Walker. 2,666,771 Jan. 19.
Cathode-follower impedance matching device. W. T. Chapin. 2,666,815, Jan. 19.
Cavity coupling to wave guide. C. W. Jones. 2,666,903, Jan. 19.
Centering and quadding device. T. H. English. 2,666,520, Jan. 19.
Centrifugal separator. F. A. Loebel. 2,666,499, Jan. 19.
Centrifuge apparatus. E. G. Pickels. 2,666,572, Jan. 19.

Chain: *See*
Traction chain.

Chair: *See*—
Folding high chair.

Changeable exhibitor. E. E. Reynolds. 2,666,911, Jan. 19.
Checking and control arrangement for facsimile telegraph apparatus. F. H. Cannon and A. A. Kirchel. 2,666,821, Jan. 19.
Child's dish holder. R. B. Howell. 2,666,612, Jan. 19.
Chlormethylation of vat dyes of the pyranthrone, anthanthrone, and dibenzpyrenequinone series. D. I. Randall and T. A. Martin. 2,666,767, Jan. 19.
Cigarette extinguisher. A. Lattof. 2,666,437, Jan. 19.

Circuit: *See*—
Photographic exposure control circuit.
Selective audio gate circuit.
Radioactive test circuit.
Switching circuit.

Circuit breaker. H. D. Dorfman. 2,666,824, Jan. 19.
Circuit breaker. L. W. Dyer and H. D. Dorfman. 2,666,828, Jan. 19.
Circuit breaker, Plural phase reclosing. J. M. Wallace. 2,666,825, Jan 19.
Circuit for welding apparatus, Voltage control. J. J. Riley and W. S. Dustman. 2,666,888, Jan. 19.
Circuit interrupter. A. van Ryan. 2,666,827, Jan. 19.

Cleaner: *See*—
Suction cleaner.

Cleaning apparatus. F. N. Collins. 2,666,440, Jan. 19.
Cleaning blade, Windshield. A. Rappl. 2,666,226, Jan. 19.
Clip for clothes racks. M. Maccaferri. 2,666,240, Jan. 19.
Closure cap feeding device. H. E. Stover. 2,666,563, Jan. 19.

Clutch: *See*—
Crystal controlled clutch.

Clutch control mechanism. A. Eppler, Jr. 2,666,511, Jan. 19.
Coffee urn and control therefor, Automatic. H. E. Kaminky. 2,666,379, Jan. 19.
Coin-controlled actuator. W. M. Stewart. 2,666,514, Jan. 19.
Coin-wrapping device. J. Scheidt and L. A. Teegardin. 2,666,284, Jan. 19.
Collapsible floor display stand. W. G. Anderson, Jr. 2,666,531, Jan. 19.
Color television. M. V. Kalfalan. 2,666,806, Jan. 19.
Combustion control apparatus. W. H. Kliever. 2,666,584, Jan. 19.
Compass system. W. H. Kliever. 2,666,268, Jan. 19.
Compressor. M. R. A. Chabay. 2,666,571, Jan. 19.
Computer board. J. W. Parker. 2,666,577, Jan. 19.
Computer, Electrical. C. J. Hirsch. 2,666,576, Jan. 19.
Concentrating by freezing. P. J. I. Ahrel. 2,666,304, Jan. 19.
Condiment distributer. G. Murray. 2,666,554, Jan. 19.
Condition responsive apparatus. A. C. Ruge. 2,666,262, Jan. 19.
Conditioning metal sheets, strips, rods, and the like. R. O. Peterson. 2,666,282, Jan. 19.
Connection for wall closet fittings, Sealed. J. H. Schmid. 2,666,211, Jan. 19.

Connector: *See*—
Corrosion-resisting flexible connector.

Constant altitude balloon. W. F. Huch. 2,666,601, Jan. 19.
Construction of semiconductor devices. L. E. Barton. 2,666,874, Jan. 19.

Container: *See*—
Spaced wall container.

Container and discharge valve therefor. E. C. Skousgaard. 2,666,297, Jan. 19.
Container having a distortable flow control means. J. J. Hopfield. 2,666,345, Jan. 19.
Container-piercing liquid dispenser. G. H. Tammi. 2,666,353, Jan. 19.
Continuous electrical outlet. R. K. Hensley, Jr. 2,666,907, Jan. 19.
Control apparatus. R. J. Ehret and R. F. Wernlund. 2,666,889, Jan. 19.
Control apparatus for combined fluid compressors and free piston machines. A. J. Bent. 2,666,569, Jan. 19.
Control of the hysteresis spread of rotating direct current machines. W. R. Harding, A. W. Kimball, and L. G. Opel. 2,666,886, Jan. 19.
Control system. W. Schaelchlin, A. J. Winchester, Jr., and J. C. Ponstingl. 2,666,913, Jan. 19.
Control system for hydraulic presses. F. C. Biggert, Jr. 2,666,292, Jan. 19.
Conveyer, Food serving. A. A. Boots. 2,666,519, Jan. 19.
Cooking device for cooking batters. B. W. Badenoch. 2,666,380, Jan. 19.
Coring device for baled goods. R. T. McAndrew. 2,666,330, Jan. 19.
Corncob burner. W. C. Polk. 2,666,403, Jan. 19.
Corrosion preventing agent. L. V. Mullen, Jr., and J. M. Boyle. 2,666,745, Jan. 19.
Corrosion-resisting flexible connector. J. G. Howard and R. H. Thomas. 2,666,657, Jan. 19.
Counting and tabbing machine for presses, Automatic. J. R. Lauffer. 2,666,372, Jan. 19.
Coupler having means to prevent vertical disengagement, Railway car. F. H. Kayler. 2,666,533, Jan. 19.
Coupling device with guide means. H. F. Diuble. 2,666,653, Jan. 19.
Coupling for fluid conduits, Breakaway. E. F. Bruning. 2,666,656, Jan. 19.
Coupling for grinding tools, Resilient. W. J. Higert. 2,666,307, Jan. 19.
Coupling system, Magnetron output. A. M. Clogston and A. G. Smith. 2,666,869, Jan. 19.

Cover: *See*—
Basket cover.
Heated vehicle cover.

Crate for use with lift-fork trucks. B. C. Colt, Jr. 2,666,552, Jan. 19.
Crystal controlled clutch. E. O. Codier. 2,666,512, Jan. 19.
Crystalline ammonium sulfite monohydrate, Manufacture of. D. A. Skinner. 2,666,687, Jan. 19.
Curtain. R. E. White. 2,666,481, Jan. 19.

Cutter: *See*—
Rotary cutter.

Cutter for strip mining machines, Adjustable. J. C. Sproul. 2,666,629, Jan. 19.
Cylinder construction, Compound hydraulic master. G. E. Porter. 2,666,294, Jan. 19.
Dam. A. Coyne, J. Géhin, and J. Bellier. 2,666,296, Jan. 19.
Damper, Bifilar centrifugal pendulum vibration. E. F. Riopelle. 2,666,341, Jan. 19.
Defrosting a cold diffuser, Method and means of. F. M. Jones. 2,666,298, Jan. 19.
Defrosting control, Refrigerator. M. S. Sutton. 2,666,299, Jan. 19.
Demethylation of methoxy derivatives of furo-4′,5′,-6,7-chromones. N. Badran. 2,666,766, Jan. 19.
Densifying wood. C. C. Heritage. 2,666,463, Jan. 19.
Dental burr cleaner and sterilizer. C. Sutch. 2,666,220, Jan. 19.
Derivatives of 3-amino-2,3-dihydroxythionaphthene-1,1-dioxide and preparing the same. J. W. Cusic. 2,666,762, Jan. 19.
Derivatives of 3-amino-2, 3-dihydrothionaphthene-1, 1-dioxide. J. W. Cusic. 2,666,763, Jan. 19.
Desk set, Traveling. S. Kaufman. 2,666,290, Jan. 19.

Desulfurization of hydrocarbons by extraction with phenylacetonitrile. N. K. Talbert. 2,666,794, Jan. 19.
Detachable blade bit. H. J. Hawthorne. 2,666,622, Jan. 19.
Determining and mixing colors. O. Syreeni. 2,666,715, Jan. 19.
Device for cleaning water closet basins. G. S. Adams. 2,666,224, Jan. 19.
Device for controlling flow in pipe lines. J. T. Cronkhite. 2,666,445, Jan. 19.
Device for handling eggs. R. S. Whitcher and G. O. Wyatt. 2,666,665, Jan. 19.
Device for husking coconuts. A. H. Beeken. 2,666,465, Jan. 19.
Device for positioning articles by coaction with apertures or recesses therein. N. S. Sinhel. 2,666,266, Jan. 19.
Device for turning the pages of music. R. Graves. 2,666,353, Jan. 19.
Device having slidable and rotary parts. M. R. G. Telsen. 2,666,420, Jan. 19.
Device to shape piecrust dough. T. McQuaid. 2,666,401, Jan. 19.
Dewaxing process. J. E. Storment. 2,666,730, Jan. 19.
Dibenzyl derivatives of hydroxy alkyl substituted aliphatic diamines. W. W. Williams and A. F. Strobel. 2,666,790, Jan. 19.
Die: *See*
Parquetry design asphalt tile die.
Die set and method of shaping the back portions and top lines of shoes. A. H. Altvater. 2,666,218, Jan. 19.
Differential mechanism. M. Casa-Massa. 2,666,343, Jan. 19.
Disk brake. J. C. McCune. 2,666,503, Jan. 19.
Disk brake. J. C. McCune. 2,666,505, Jan. 19.
Dispenser: *See*—
Container-piercing liquid dispenser.
Liquid dispenser.
Tape dispenser.
Fluid dispenser.
Disposal of fumes by scrubbing and burning. J. P. Engel. 2,666,494, Jan. 19.
Dividend-divisor aligning mechanism. G. W. Hopkins, E. A. Davis, and G. Zickler. 2,666,580, Jan. 19.
Door lock. F. R. Collar and E. D. Grizzard. 2,666,321, Jan. 19.
Drafting instrument. J. A. Bnick. 2,666,261, Jan. 19.
Drain, Three-way, all-purpose. A. Gordon. 2,666,493, Jan. 19.
Drawer seat. W. R. Dean. 2,666,473, Jan. 19.
Dress form, Collapsible. B. and M. C. Wexler. 2,666,559, Jan. 19.
Dressmaker's foundation and guide. B. L. Howe. 2,666,558, Jan. 19.
Drier, kiln, and the like, Rotary. G. Bojner. 2,666,633, Jan. 19.
Drilling hook bill safety latch. J. T. Carmichael. 2,666,244, Jan. 19.
Drive control apparatus for beam warpers. K. Liebrandt. 2,666,250, Jan. 19.
Drive control for tape record feeding mechanisms, Reversible. B. E. Stone. 2,666,593, Jan. 19.
Drive mechanism, Multispeed. N. R. Brownyer. 2,666,337, Jan. 19.
Drying refractory linings of furnaces. P. Blanchard. 2,666,270, Jan. 19.
Drying solids in a fluidized bed. V. F. Parry. 2,666,269, Jan. 19.
Ductile molybdenum, Producing. J. H. Bechtold, B. Lustman, and H. Scott. 2,666,721, Jan. 19.
Duplicating method and means, Magnetic. M. Camras. 2,666,813, Jan. 19.
Dustpan, Flexible. R. L. Anderson and O. F. Blom. 2,666,309, Jan. 19.
Dynamic-braking protection. G. R. Purifoy. 2,666,877, Jan. 19.
Electric arc device. S. C. Rockafellow. 2,666,887, Jan. 19.
Electric battery and making same. J. A. Victoreen. 2,666,801, Jan. 19.
Electrical coalescence process. J. W. Packie. 2,666,739, Jan. 19.
Electric controller for heating elements. T. Stiebel. 2,666,836, Jan. 19.
Electric heating pad. E. W. Boetel 2,666,839, Jan. 19.
Electric power system for aircraft. B. O. Austin and R. D. Jessee. 2,666,871, Jan. 19.
Electric power system for aircraft. B. O. Austin, R. D. Jessee, and C. A. Stump, Jr. 2,666,872, Jan. 19.
Electric resistance welding process. A. J. Elleman. 2,666,835, Jan. 19.
Electrical counter. K. P. Gow and A. L. Klein. 2,666,912, Jan. 19.
Electrical means for measuring the thickness of an electrically nonconductive material. P. W. Harris. 2,666,896, Jan. 19.
Electrical windings, Manufacturing. P. Elsler. 2,666,254, Jan. 19.
Electrode assembly for electrical precipitators. W. F. Hull. 2,666,495, Jan. 19.
Electromechanical change-speed transmission and brake control for vehicles. P. T. Nims and A. Chudkewicz. 2,666,492, Jan. 19.
Electronic frequency vernier. L. D. Smullin. 2,666,899, Jan. 19.
Electronic selection of a combustion point or similar point on a wave. J. G. Withers, H. J. Hulf, and A. Rubach. 2,666,325, Jan. 19.
Electronic switch. E. M. McMillan. 2,666,868, Jan. 19.
Elevator for invalids, Mobile. R. A. Flanders. 2,666,212, Jan. 19.
Embodying fruit in decorative designs in brick ice cream, Means for. L. Skok. 2,666,397, Jan. 19.
Engine compounding and speed control apparatus, Fluid pressure. R. R. Stevens. 2,666,295, Jan. 19.
Engine turning gear. R. P. Hewson. 2,666,331, Jan. 19.
Engine with variable combustion chamber, Internal-combustion. S. H. Ring. 2,666,421, Jan. 19.
Ethylene sulfarylamides, Production of. F. Ebel. 2,666,788, Jan. 19.
Excavator bucket tooth. W. W. Everett. 2,666,272, Jan. 19.
Exercising stand. K. L. Jennings, Sr. 2,666,640, Jan. 19.
Expansion joint. R. P. Richmond. 2,666,454, Jan. 19.
Extension unit for tractor operated loading attachments. G. T. Baker. 2,666,540, Jan. 19.
Face mask. R. Mafko. 2,666,204–6, Jan. 19.
Facilitating connecting electric multiconductors, Method and means for. O. M. Meldal. 2,666,898, Jan. 19.
Facsimile machine. A. G. Cooley. 2,666,808, Jan. 19.
Fair-lead. R. C. Shoemaker. 2,666,532, Jan. 19.
Fastener: *See*
Fusible fastener.
Fastener. E. B. Fernberg. 2,666,245, Jan. 19.
Fastening sheet material to supports. R. Temple. 2,666,252, Jan. 19.
Feeding device for animals such as quail. C. H. Scruggs. 2,666,415, Jan. 19.
Feeding device for ink fountains. H. Jovishoff and B. W. Karp. 2,666,386, Jan. 19.
Ferrous alloys. M. L. Eder. 2,666,697, Jan. 19.
Fiber cutter for suction cleaners. F. S. Howard. 2,666,570, Jan. 19.
Filling machine. E. S. Minard. 2,666,564, Jan. 19.
Filter. W. G. Landwier. 2,666,529, Jan. 19.
Finger ring stone mounting. W. L. Lewis. 2,666,306, Jan. 19.
Fishing plug. M. E. Smith. 2,666,275, Jan. 19.
Flatiron, Laundry. E. Sokolik. 2,666,274, Jan. 19.
Flatiron rest for ironing boards. C. A. Steen. 2,666,606, Jan. 19.
Float switch. T. R. Wilson. 2,666,823, Jan. 19.
Flotation process for separation of silica and rhodonite. C. H. Schack and K. C. Dean. 2,666,588, Jan. 19.
Fluid dispenser. L. T. Ward. 2,666,667, Jan. 19.
Fluid dispensing apparatus for high and low pressure ranges. J. C. Woodford and D. S. Willson. 2,666,446, Jan. 19.
Fluid distributor. B. A. Graybeal. 2,666,444, Jan. 19.
Fluorinated alcohols and acetate esters. D. R. Husted and A. H. Ahlbrecht. 2,666,797, Jan. 19.
Folding high chair. A. D. Broadie and G. D. Hoyal. 2,666,475, Jan. 19.
Food conditioner for cooking ranges. A. H. Brodbeck. 2,666,837, Jan. 19.
Forage blower. G. B. Hill. 2,666,672, Jan. 19.
Fourdrinier type machine for applying pulp insulation to wires. B. F. Bachus. 2,666,370, Jan. 19.
Fractionating column with removable trays. C. O. Hurd. 2,666,737, Jan. 19.
Frame: *See*
Illuminated electric razor frame.
Frequency modulator transistor circuits. L. L. Koros. 2,666,902, Jan. 19.
Frier, Deep. R. T. Keating. 2,666,427, Jan. 19.
Fuel gas volume control for internal-combustion engines. C. S. Kenworthy and W. J. Blessing. 2,666,422, Jan. 19.
Fuel injection pump. W. Friedlander. 2,666,391, Jan. 19.
Fuel packages. D. Brody. 2,666,695, Jan. 19.
Furnace: *See*—
Perlite popping furnace.
Fuse tester and flashlight, Combined. J. Babernitsh. 2,666,894, Jan. 19.
Fusible fastener. D. R Ruegsegger. 2,666,488, Jan. 19.
Fuze, L. M. Cooper. 2,666,389, Jan. 19.
Fuze, Bomb. J. M. Wheeler. 2,666,388, Jan. 19.
Game apparatus, Peg and ring. H. L. Ward. 2,666,642, Jan. 19.
Game board apparatus. R. A. Strehlow and W. A. Heiby. 2,666,644, Jan. 19.
Garment construction, Knitted. L. S. Capper. 2,666,314, Jan. 19.
Garment, Foundation. G. E. Ongley. 2,666,202, Jan. 19.
Garment, Infant's. S. Berman. 2,666,203, Jan. 19.
Gaseous-discharge device. P. W. Stutsman. 2,666,880, Jan. 19.
Gaseous fluid flow system. I. M. Davidson and A. D. S. Carter. 2,666,453, Jan. 19.
Gaseous fuel cutting torch with reversibly positioned valve lever. E. J. Clinton, Jr. 2,666,479, Jan. 19.
Gate latch. B. Youngworth. 2,666,660, Jan. 19.
Gate valve. M. P. Laurent. 2,666,615, Jan. 19.
Gauge: *See*
Readjustable mechanical gauge.
Gauge. J. B. Attig. 2,666,265, Jan. 19.
Gauge stop for pipe benders. J. W. Lewin. 2,666,351, Jan. 19.

Gear: *See*—
Engine turning gear.
Gear assembly. N. F. Clayborne. 2,666,335, Jan. 19.
Gear system. G. A. Boeck and E. J. Howard. 2,666,344, Jan. 19.
Gear teeth, Internal. M. F. Hill and F. A. Hill 2nd. 2,666,336, Jan. 19.
Generator with phase shifter, Frequency. B. Carniol. 2,666,851, Jan. 19.
Governor for accelerators, Adjustable. S. S. Pokorny. 2,666,510, Jan. 19.
Gun for homogenizing and aerating a flowing stream of plasticized adhesive material. M. M. True. 2,666,626, Jan. 19.
Hammer, Drop. W. M. Pryor. 2,666,590, Jan. 19.
Handgrip. K. W. Hunt. 2,666,340, Jan. 19.
Handle structure for straight pull brake levers, Safety. R. J. Schwarz. 2,666,339, Jan. 19.
Handpiece for rotary tools, especially for dentists' use. O. Thau-Jensen. 2,666,259, Jan. 19.
Hanger: *See*—
Adjustable garment hanger.
Shock absorbing cable hanger.
Multiple contact lamp hanger.
Hanger and form, Collapsible garment. B. and M. C. Wexler. 2,666,560, Jan. 19.
Harvester, Tiltably mounted root. W. D. Poole. 2,666,286, Jan. 19.
Headrest, Auto seat. B. C. Lycan. 2,666,476, Jan. 19.
Hearse having reversible casket table. A. M. Schneider and J. A. Olivier. 2,666,666, Jan. 19.
Heat exchange apparatus. W. M. Byerley. 2,666,625, Jan. 19.
Heated vehicle cover. E. J. Poirier. 2,666,840, Jan. 19.
Heater: *See*—
Thermostatically controlled electric water heater.
Well heater.
Heating apparatus, Induction. F. Laver. 2,666,841, Jan. 19.
Helical coil compression springs, Manufacturing. E. W. Stewart. 2,666,723, Jan. 19.
Hide treating apparatus. R. H. Griffin. 2,666,317, Jan. 19.
High current gain semiconductor device. B. N. Slade. 2,666,873, Jan. 19.
Hip nail aiming and guiding device. H. A. Gispert. 2,666,430, Jan. 19.
Holder: *See*—
Bottle holder.
Broom or brush holder.
Child's dish holder.
Holder for both flat bottom and conical paper cups. H. Hill. 2,666,310, Jan. 19.
Hook plate construction for bedsprings. G. M. Harris. 2,666,215, Jan. 19.
Hooking device. N. Johnson. 2,666,664, Jan. 19.
Hydraulic scale check link. L. S. Williams. 2,666,634, Jan. 19
Hydrocarbon conversion, Method and apparatus for. E. V. Bergstrom. 2,666,731, Jan. 19.
Hydrocyanation of olefinic compounds. P. Arthur, Jr., and B. C. Pratt. 2,666,780, Jan. 19.
Hydrocyanic acid, Production of. R. L. Heider. 2,666,689, Jan. 19.
Hydrogen cyanide-cobalt carbonyl reaction product. P. Arthur, Jr., and B. C. Pratt. 2,666,748, Jan. 19.
Ice boring device. M. C. Johnson. 2,666,623, Jan. 19.
Identification card or the like. W. H. Wolowitz. 2,666,655, Jan. 19.
Illuminated electric razor frame. H. D. Bowman. 2,666,842, Jan. 19.
Image intensifier tube. R. L. Longini. 2,666,864, Jan. 19.
Improvement in cases. J. V. Miller and R. C. Reed. 2,666,521, Jan. 19.
Indexing apparatus for printing presses. R. W. Bender. 2,666,385, Jan. 19.
Indexing valve. E. E. Berry. 2,666,450, Jan. 19.
Indicator: *See*—
Balance indicator.
Indicator ring. J. J. Smith. 2,666,581, Jan. 19.
Insoluble methyl-benzodiazepin salts of penicillin. G. W. Curtis and S. A. De Lorenzo. 2,666,760, Jan. 19.
Interfitting lock. R. A. Farrell. 2,666,567, Jan. 19.
Iron powder of improved electromagnetic properties, Preparing. H. Beller. 2,666,724, Jan. 19.
Jack system for automobiles, Hydraulic. L. R. Bloom. 2,666,619, Jan. 19.
Jet pipe having a discharge end portion of variable cross sectional area. J. Skorecki. 2,666,291, Jan. 19.
Joint: *See*
Expansion joint.
Joint device, Universal. G. R. Bouchard. 2,666,308, Jan. 19.
Ketone-diarylamine condensates, Preparation of. I. Mankowich. 2,666,792–3, Jan. 19.
Keyboard and character selecting mechanism for writing machines, Permutatively operable. A. Boni. 2,666,516, Jan. 19.
Knitting machine and operating same, Straight bar. F. Lambach. 2,666,311, Jan. 19.
Lamellas for tractor wheels. B. Dasch. 2,666,469, Jan. 19.
Lamellate flat cell. W. B. Woodring and W. W. Eaton. 2,666,802, Jan. 19.
Lasts, Making. B. D. Spencer. 2,666,464, Jan. 19.
Latch: *See*—
Drilling hook bill safety latch.
Gate latch.
Latch and lock for slidable closure devices, Reversible. J. F. Price. 2,666,319, Jan. 19.
Latch for caskets. B. J. Slaughter, Jr. 2,666,248, Jan. 19.
Latch mechanism, Differential. K. H. Tenoort. 2,666,573, Jan. 19.
Latigo rigging for saddles having skirts. D. O. Diaz. 2,666,285, Jan. 19.
Laundry shaker and conditioner. F. A. Mann, Jr. 2,666,271, Jan. 19.
Lead-in terminal. B. Gross. 2,666,804, Jan. 19.
Lead-in terminal. P. F. Smith. 2,666,805, Jan. 19.
Ledger blade for pinking mechanisms. V. J. Sigoda. 2,666,486, Jan. 19.
Lever structure, Straight pull brake. R. A. Sandberg. 2,666,338, Jan. 19.
Lighter and ash tray, Combined cigarette. J. H. Herman, Jr. 2,666,522, Jan. 19.
Lighting fixture. M. B. Beck. 2,666,844, Jan. 19.
Lightning arrester. C. W. Klostermann. 2,666,908, Jan. 19.
Line dividing mechanism for conveyers. R. S. Dart. 2,666,513, Jan. 19.
Linoleum roll lift. C. L. Eldh. 2,666,595, Jan. 19.
Liquid dispenser. D. Hester. 2,666,557, Jan. 19.
Lock: *See*—
Door lock.
Interfitting lock.
Lock. S. Segal. 2,666,661, Jan. 19.
Lock and latch, Door. E. L. Teich. 2,666,320, Jan. 19.
Lock and seal device, Combined. N. A. Welch. 2,666,318, Jan. 19.
Lock provided with flat tumbler elements, Rotary cylinder. E. Uher. 2,666,322, Jan. 19.
Lock washer with thick rim and making same. O. J. Poupitch. 2,666,468, Jan. 19.
Locking device with slider. L. Steiner. 2,666,242, Jan. 19.
Log kicker, Hydraulically operated. D. C. Richardson. 2,666,462, Jan. 19.
Lubricating compositions. E. W. Brennan. 2,666,743, Jan. 19.
Lubricating oil composition. J. C. Munday and D. T. Rogers. 2,666,746, Jan. 19.
Luggage frame having locking hinge structure. L. Stein. 2,666,227, Jan. 19.
Machine for applying shredded material to bakery products. B. S. Budny. 2,666,410, Jan. 19.
Machine for applying straps to containers. V. C. Sherman and B. H. Cole. 2,666,381, Jan. 19.
Machine for forming tortillas and the like. A. J. Pereyra. 2,666,399, Jan. 19.
Machine for producing spring mattresses. J. Gauci and P. J. Mueller. 2,666,459, Jan. 19.
Machine for the correction of posture and normalization of weight. W. R. Alexander, O. E. Williams, H. H. Dawson, and H. K. Bentz. 2,666,429, Jan. 19.
Magnetic relay with special armature mounting means. B. S. Bengtsson. 2,666,826, Jan. 19.
Maintaining stability of vegetable oils undergoing heating. J. A. Chenicek. 2,666,708, Jan. 19.
Mask for administering anesthesias. P. L. Stanton. 2,666,432, Jan. 19.
Masked lignocellulosic material, Making. G. D. King and R. V. Harkema. 2,666,726, Jan. 19.
Master sound record. E. W. Jones. 2,666,651, Jan. 19.
Mastic-applying and finishing tool. R. G. Ames. 2,666,323, Jan. 19.
Material handling apparatus. H. J. Kimmerle. 2,666,671, Jan. 19.
Mattress, Test. T. S. Taylor. 2,666,327, Jan. 19.
Means for crating or boxing bottles and for removing bottles from crates or boxes. J. E. Birch. 2,666,562, Jan. 19.
Measuring apparatus, Optical. E. Root, III. 2,666,267, Jan. 19.
Measuring apparatus, Volumetric. F. M. Poole and L. C. Paslay. 2,666,326, Jan. 19.
Measuring moisture content, Method and apparatus for. E. H. Collins. 2,666,897, Jan. 19.
Mechanism for filling cartons. A. A. Barnes and R. Spurr. 2,666,565, Jan. 19.
Metal treatment. S. Epstein and H. J. Cutler. 2,666,722, Jan. 19.
Meter: *See*—
Microwave frequency meter.
Method and device for interconnecting battery cells. D. S. Hoynes. 2,666,800, Jan. 19.
Method and furnace for heating bars to be forged by means of eddy currents. L. Dreyfus. 2,666,830, Jan. 19.
Micrometer. F. M. Laserson. 2,666,263, Jan. 19.
Microwave frequency meter. S. A. Johnson. 2,666,904, Jan. 19.
Mineral oil composition containing copolymers of itaconic acid esters and avinyl ester of a fatty acid. J. H. Bartlett. 2,666,747, Jan. 19.
Mining machine. J. C. Sproul. 2,666,630, Jan. 19.
Mining machine with superposed wedge-like cutter. J. C. Sproul. 2,666,628, Jan. 19.
Mining machine with wedge-type cutter. E. D. M. Gullick. 2,666,627, Jan. 19.
Mirror mounting means. O. C. Kelly. 2,666,364, Jan. 19.

Moistening means for duplicating machines. R. M. Ford. 2,666,412, Jan. 19.
Mold for molding concrete blocks. J. M. Wilson. 2,666,247, Jan. 19.
Mold release emulsion. M. C. Hommel and C. C. Currie. 2,666,685, Jan. 19.
Molding apparatus for molding material. R. J. Sherman. 2,666,230, Jan. 19.
Molding machine, Tile. J. Pessagno. 2,666,246, Jan. 19.
Mop holder having twisted wire handle. N. B. Kindley. 2,666,225, Jan. 19.
Motion transmittal and sealing means therefor. H. H. Laucks. 2,666,658, Jan. 19.
Motor assembly for catapults and the like, Linear. F. W. Godsey, Jr., and M. F. Jones. 2,666,879, Jan. 19.
Motor control system for knitting machines. J. F. Sibley. 2,666,313, Jan. 19.
Motor drive for differential gearing, Electric. H. Sinclair. 2,666,876, Jan. 19.
Motor power unit, Two electric. E. Davis and R. D. McCallum. 2,666,863, Jan. 19.
Motor with built-in flywheel and clutch, Electric. W. Jaggi. 2,666,509, Jan. 19.
Mounting: *See*—
  Finger ring stone mounting.
Mounting of rotating horizontal tables in machine tools. C. W. Berthiez. 2,666,367, Jan. 19.
Mounting refrigerating apparatus. R. W. Doeg. 2,666,301, Jan. 19.
Multiple contact lamp hanger. R. K. and T. B. Farrington and R. F. Kurzenberger. 2,666,909, Jan. 19.
Multiple stage fluid relay. D. P. Eckman. 2,666,443, Jan. 19.
Multivibrator, Variable frequency. L. M. Hollingsworth. 2,666,852, Jan. 19.
N-substituted aminophenols and aminophenyl ethers. V. Weinmayr. 2,666,791, Jan. 19.
Nail driver. H. J. Van Orden. 2,666,201, Jan. 19.
Necktie rack. I. B. Beren. 2,666,530, Jan. 19.
New catalytic process for the polymerization of ethylene. T. Boyd and R. M. Dickey. 2,666,756, Jan. 19.
Nonhygroscopic choline salts. H. Hopff and H. Spaenig. 2,666,784, Jan. 19.
Nozzle for expansion and compression of gases. J. A. Chalom. 2,666,279, Jan. 19.
Nozzle, Single inlet whirl chamber. F. W. Wahlin. 2,666,669, Jan. 19.
Oil well coring method. H. J. Welge and R. C. West. 2,666,620, Jan. 19.
Olefin isomerization. F. E. Condon. 2,666,798, Jan. 19.
Optical sensitization of photomechanical resists. W. West. 2,666,701, Jan. 19.
Optical system for non-intermittent film projectors. R. E. Graham and C. F. Mattke. 2,666,357, Jan. 19.
Organic silicon compounds, Production of. S. Nitzsche. 2,666,776, Jan. 19.
Organosilanes by reaction of silicon with organic halides, Preparation of. S. Nitzsche. 2,666,775, Jan. 19.
Oscillographic polarograph. S. Weidmann. 2,666,891, Jan. 19.
Outlet box locator. N. A. Reilly. 2,666,546, Jan. 19.
Oven, Barbecue. E. G. Hastings, Jr. 2,666,425, Jan. 19.
Packaging method. E. J. Ryan and W. C. Van Siclen. 2,666,523, Jan. 19.
Packing device. P. Audemar. 2,666,659, Jan. 19.
Pad: *See*—
  Electric heating pad.
Paper machinery. S. A. Staege and J. H. Pearson. 2,666,368, Jan. 19.
Paper web guide. W. C. Robinette. 2,666,598, Jan. 19.
Parquetry design asphalt tile die. H. A. Hachmeister. 2,666,382, Jan. 19.
Patent leather and coating composition for use in making same. S. Siddiqui and D. C. Dhar. 2,666,717, Jan. 19.
Pattern assembly. J. A. Farrell. 2,666,239, Jan. 19.
Perlite popping furnace. P. C. Culver and J. G. Kelly. 2,666,632, Jan. 19.
Phosphorus esters from hydroperoxide, Production of. M. M. Wirth and W. J. Oldham. 2,666,779, Jan. 19.
Photographic copying apparatus. H. C. Yutzy and G. D. Aydlett. 2,666,384, Jan. 19.
Photographic developers having improved stability to high temperatures, Single powder. D. J. Kridel, F. R. Bean, and W. J. Rogers. 2,666,702, Jan. 19.
Photographic developers stabilized with metaboric acid, Single-powder. D. J. Kridel and E. S. Wiitala. 2,666,703, Jan. 19.
Photographic exposure control circuit. B. Levine. 2,666,858, Jan. 19.
Picker check strap. V. Gravitt. 2,666,455, Jan. 19.
Pinking mechanism. V. J. Sigoda. 2,666,483, Jan. 19.
Piston. F. J. Carney. 2,666,678, Jan. 19.
Plastic cone. R. B. Battersby. 2,666,599, Jan. 19.
Plastic masses, Production of. C. W. Vogt. 2,666,400, Jan. 19.
Plasticizer and moisture retentive composition for paper and paper containing it. L. Lang and R. J. Baird. 2,666,713, Jan. 19.
Platform having rotary cutting means, Combine. N. L. Atteberry. 2,666,287, Jan. 19.
Plow, Corrugator. H. A. Schnell. 2,666,377, Jan. 19.
Plow, Tractor mounted two-way. H. A. Pursche. 2,666,376, Jan. 19.
Plug: *See*—
  Fishing plug.
Plural motors driving reversible draw rollers. W. J. Norton. 2,666,875, Jan. 19.
Pneumatic control system, Distance adjusted. L. Gess. 2,666,585, Jan. 19.
Poacher, Egg. G. C. Wyman. 2,666,551, Jan. 19.
Polyethylene glycol esters in fat. E. I. Valko. 2,666,706, Jan. 19.
Polyhydroxy-ether addition compounds with metal salts. A. Grenall. 2,666,774, Jan. 19.
Polymeric phosphonic acid diamides. J. B. Dickey and H. W. Coover, Jr. 2,666,750, Jan. 19.
Polymeric titanium ester anhydrides. T. Boyd. 2,666,772, Jan. 19.
Pouch with slideless fastener closure. J. Sharat. 2,666,466, Jan. 19.
Power transmission mechanism. W. B. Bell. 2,666,342, Jan. 19.
Precipitating size with chromium and aluminum salts. R. C. McQuiston and F. E. Davenport. 2,666,699, Jan. 19.
Preparation for mange and fungus eczema. C. R. Smith. 2,666,728, Jan. 19.
Preparing a light sensitive silver halide emulsion. W. D. Baldsiefen. 2,666,700, Jan. 19.
Press assembly, Suction. E. D. Beachler. 2,666,371, Jan. 19.
Presser-foot, Hinged. J. P. Enos. 2,666,405, Jan. 19.
Pressure-applying device for the drafting rollers of drafting apparatus. G. H. Ambler. 2,666,232, Jan. 19.
Pressure regulator. J. L. Matasovic. 2,666,278, Jan. 19.
Processing leafy vegetables, Method and apparatus for. R. B. Crosset. 2,666,711, Jan. 19.
Producing accurately measured plastic masses, Method and apparatus for. C. W. Vogt. 2,666,229, Jan. 19.
Promoting filtration. C. L. Peterson. 2,666,527, Jan. 19.
Propyl p-nitrophenyl thionobenzene phosphonates. A. G. Jelinek. 2,666,777, Jan. 19.
Pulley for drill presses, Speed change. R. D. Phares. 2,666,332, Jan. 19.
Pulse modulator. H. F. Lynn. 2,666,901, Jan. 19.
Pump: *See*—
  Fuel injection pump.
  Self-priming centrifugal pump.
Pump adapted to be supported and actuated by a power take-off shaft of a motor, Rotary. G. W. Hartwell. 2,666,395, Jan. 19.
Pump and motor hydraulic transmission, Rotary. M. V. Vigneau. 2,666,293, Jan. 19.
Pump construction. H. J. Sadler and E. E. Cook. 2,666,394, Jan. 19.
Pump for precision adjustment. E. G. Martin. 2,666,392, Jan. 19.
Pump with rack and pinion actuating means, Multiple cylinder reciprocating. C. C. Kruse. 2,666,396, Jan. 19.
Purification of isopropyl alcohol. C. E. Morrell, C. S. Carlson, and C. E. Porter. 2,666,735, Jan. 19.
Purification of sewage. A. Gordon. 2,666,740, Jan. 19.
Purification of 2,2'-dimethyl-1,1'-dianthraquinonyl. L. H. Ulich and W. R. Waldron. 2,666,768, Jan. 19.
Purifying streptokinase. W. Baumgarten. 2,666,729, Jan. 19.
Quaternary benzylchloride salts of 3-hydroxy 4-disubstituted amino-butene-1. M. R. Lytton. 2,666,783, Jan. 19.
Rack: *See*—
  Necktie rack.
Radiation shield for spark plugs. G. D. Johnson, Jr. 2,666,423, Jan. 19.
Radio apparatus, Stop-on-signal. W. J. O'Brien. 2,666,853, Jan. 19.
Radio course indicating system. B. Chance and I. A. Greenwood, Jr. 2,666,914, Jan. 19.
Radioactive test circuit. I. H. McLaren and C. E. Alsterberg. 2,666,857, Jan. 19.
Rail flaw detection device. N. G. Branson. 2,666,862, Jan. 19.
Rake handle attaching structure, Bamboo. R. N. Kimura. 2,666,288, Jan. 19.
Razor, Injector. C. E. Butlin. 2,666,257, Jan. 19.
Reaction product of silicon monoxide and ammonia and rubber compositions containing the same. D. S. Sears. 2,666,754, Jan. 19.
Readjustable mechanical gauge. A. Brandt. 2,666,264, Jan. 19.
Record changer. H. H. Vanderzee and R. A. McCallum. 2,666,649, Jan. 19.
Recording system. J. W. Hutchins. 2,666,854, Jan. 19.
Recording titration apparatus. H. A. Robinson and R. H. Briggs. 2,666,691, Jan. 19.
Recovering esters and other volatile components. E. R. Beu. 2,666,707, Jan. 19.
Rectifier and converter using superconduction. E. A. Ericsson, A. O. Jorgensen, and S. L. Overby. 2,666,884, Jan. 19.
Reel driving mechanism for motion-picture projectors. V. H. Jungjohann. 2,666,594, Jan. 19.
Refining of tar acid oil. E. Gorin and M. B. Neuworth. 2,666,796, Jan. 19.
Refrigerating apparatus and cabinet structure. L. A. Philipp. 2,666,302, Jan. 19.

Refrigerator cabinet. H. E. Rosebrook. 2,666,300, Jan. 19.
Regeneration of mixed single bed deionization. J. F. McMullen. 2,666,741, Jan. 19.
Regulator: *See*—
  Pressure regulator.
Removing starch from the binder on glass cloth. E. H. Balz. 2,666,720, Jan. 19.
Resinous coated article and making same. K. J. Lissant. 2,666,719, Jan. 19.
Ring: *See*—
  Indicator ring.
  Swing frame changing ring.
Roller guide means. W. Stahlecker. 2,666,231, Jan. 19.
Roller platen control in addressing machines. L. S. Prosser, Jr. 2,666,383, Jan. 19.
Rolling machine, Screw thread. J. W. Batchelder. 2,666,349, Jan. 19.
Rosette maker and flower holder, Combination. R. R. Ruiz and F. A. Smith. 2,666,249, Jan. 19.
Rotary cutter. J. G. Antosh. 2,666,485, Jan. 19.
Ruggedized electron tube. H. J. Prager. 2,666,866, Jan. 19.
Safety device for looms for weaving tufted pile fabrics. E. S. Butler and A. Sutcliffe. 2,666,458, Jan. 19.
Safety device for projectiles. E. W. Brandt. 2,666,390, Jan. 19.
Saw sharpening machine. L. Brown. 2,666,346, Jan. 19.
Sawing machine, Heel block. C. A. Johnson. 2,666,461, Jan. 19.
Scoop, Material handling. D. F. McLeod. 2,666,662, Jan. 19.
Screen bar. O. Danyluke. 2,666,589, Jan. 19.
Screw-adjusting tool. W. W. Hackett. 2,666,350, Jan. 19.
Seal for rotary regenerative preheaters, Interlocked. G. E. Flurschutz. 2,666,624, Jan. 19.
Sealing assembly. J. Dim and H. Berg. 2,666,354, Jan. 19.
Seat: *See*—
  Drawer seat.
Seat back having alternate springs of different lengths and form, Zigzag spring. H. C. Flint. 2,666,477, Jan. 19.
Selective audio gate circuit. T. E. Goodwin. 2,666,848, Jan. 19.
Self-priming centrifugal pump. H. Troeger and R. M. Flanagan. 2,666,393, Jan. 19.
Self-retaining cul-de-sac retractor. R. J. Glenner. 2,666,428, Jan. 19.
Self-sealing relief valve. O. L. Garretson and C. O. Henneman. 2,666,448, Jan. 19.
Semiconductor translating device. W. Shockley. 2,666,814, Jan. 19.
Separating gel particles. J. W. Payne. 2,666,524, Jan. 19.
Separating mixed materials, Process and apparatus for. W. W. Odell and G. L. Matheson. 2,666,526, Jan. 19.
Separation of n-propyl and sec. butyl alcohols by azeotropic distillation. N. C. Robertson and J. W. Walker. 2,666,736, Jan. 19.
Separator: *See*—
  Centrifugal separator.
Servo system for nonintermittent film projectors. R. E. Graham and C. F. Mattke. 2,666,356, Jan. 19.
17-glycolyl-estradiols. F. B. Colton. 2,666,769, Jan. 19.
Shears with replaceable blades. E. A. Vogel. 2,666,258, Jan. 19.
Sheet clipping and classifying apparatus. D. L. Schubert. 2,666,484, Jan. 19.
Sheet material with remoistenable gum coating, Preparation of. A. E. Davis. 2,666,718, Jan. 19.
Shingle, Self-sealing. G. W. Clarvoe. 2,666,402, Jan. 19.
Shock absorbing cable hanger. A. E. Chisholm. 2,666,605, Jan. 19.
Shock indicating device. E. M. Kane. 2,666,409, Jan. 19.
Short-pulse modulator. H. L. Johnson and V. Josephson. 2,666,849, Jan. 19.
Shortening compositions and making the same. E. F. Glabe. 2,666,705, Jan. 19.
Shuttlecock and manufacture. J. W. Miller. 2,666,643, Jan. 19.
Signal system for vehicles. B. R. Lévy. 2,666,870, Jan. 19.
Signaling device. G. H. Riviere. 2,666,408, Jan. 19.
Signaling system, Telephone. R. J. Kircher. 2,666,812, Jan. 19.
Sleigh, Ski. H. C. F. and B. B. Lammers. 2,666,652, Jan. 19.
Slide fasteners, Manufacture of. A. E. Carlile. 2,666,251, Jan. 19.
Sodium bicarbonate and ammonium chloride in modified ammonia-soda type process, Production of. W. S. Miller and L. C. Hirdler. 2,666,686, Jan. 19.
Soft papers adaptable to impregnation, Making. N. J. Niks. 2,666,369, Jan. 19.
Soft plastic food package. L. Peters. 2,666,710, Jan. 19.
Solderless terminal. H. J. Hammerly. 2,666,910, Jan. 19.
Sole rounding and trimming machine. C. L. Flindt. 2,666,219, Jan. 19.
Sorter control device. R. L. Smith. 2,666,536, Jan. 19.
Sorting system. A. F. Dooley. 2,666,535, Jan. 19.
Sorting system. A. F. Dooley. 2,666,537–8, Jan. 19.
Sound pickup and reproducing apparatus. J. MacDonell. 2,666,650, Jan. 19.
Sound reproducer and projector apparatus, Combined. G. H. Eash. 2,666,358, Jan. 19.
Spaced wall container. J. K. Lund. 2,666,548, Jan. 19.
Speed reducer. W. E. Amberg. 2,666,345, Jan. 19.
Spheroidal alumina. J. Hoekstra. 2,666,749, Jan. 19.
Spin bath treatment. R. O. Denyes. 2,666,684, Jan. 19.
Spiral tuner. R. J. Aust. 2,666,906, Jan. 19.
Split clearing mechanism. A. B. Machado and F. J. Prueliage. 2,666,582, Jan. 19.
Splitting aralkyl-heterocyclic thioethers with aluminum bromide. A. E. Lanziotti, A. C. Shabica, and J. B. Ziegler. 2,666,764, Jan. 19.
Sponger rubber composition and making sponge rubber. H. L. Wunderly. 2,666,751, Jan. 19.
Spraying apparatus for shoe sole margins. M. Maeser. 2,666,413, Jan. 19.
Spring assemblages, Making. I. A. Morberg. 2,666,253, Jan. 19.
Spring hook clasp. H. Kuehn. 2,666,243, Jan. 19.
Spring structure, Leaf. E. H. Lindeman. 2,666,637, Jan. 19.
Spring suspension, Vehicle. C. W. Wulff. 2,666,636, Jan. 19.
Sprinkler head. V. G. McGraw. 2,666,670, Jan. 19.
Sprinkling can. E. M. Sieloff. 2,666,668, Jan. 19.
Stabilization of edible oils and fats. R. H. Rosenwald and J. A. Chenicek. 2,666,709, Jan. 19.
Stabilization of vulcanized copolymers of isobutylene. R. L. Zapp. 2,666,753, Jan. 19.
Stabilizer for halogen-containing polymers. O. J. Grummitt, R. E. Blank, and H. F. Schwarz. 2,666,752, Jan. 19.
Stabilizing fins for missiles. D. M. Richey. 2,666,387, Jan. 19.
Stable cupric hydroxide, Making. W. H. Furness. 2,666,688, Jan. 19.
Stand: *See*—
  Collapsible floor display stand. Exercising stand.
Static minimum excitation system for alternators. S. L. Bradley and N. Nichols. 2,666,885, Jan. 19.
Static torsion testing machine and specimen. A. M. Stott. 2,666,324, Jan. 19.
Steering indicator for mining machines. J. B. Mavor. 2,666,631, Jan. 19.
Steering mechanism for outboard motors. J. P. Wilkirson. 2,666,407, Jan. 19.
Stereoscopic viewer. H. J. Collins. 2,666,359–60, Jan. 19.
Sticker composition for insecticides and fungicides. E. D. Cornwell. 2,666,712, Jan. 19.
Stocking, Prosthetic. D. B. Funk. 2,666,208, Jan. 19.
Stocking, Ventilated. A. Lucas. 2,666,207, Jan. 19.
Stoker apparatus. W. Kessler. 2,666,404, Jan. 19.
Stop switch. L. Pelletier, W. J. Anderson, and H. Fener. 2,666,822, Jan. 19.
Stretcher with patient retaining means, Wheel. R. W. Stuart. 2,666,217, Jan. 19.
Studying chemical reactions by measuring interfacial film thicknesses. H. J. Trurnit. 2,666,355, Jan. 19.
Suction cleaner. W. L. Petersen. 2,666,498, Jan. 19.
Sulfobenzoic acid and its salts, Production of. H. Feichtinger, H. Kolling, and S. Puschhof. 2,666,785, Jan. 19.
Sulfonyl-isocyanates, Production of. H. Krzikalla. 2,666,787, Jan. 19.
Sulfurized grease compositions. J. A. Dixon. 2,666,744, Jan. 19.
Support for coin controlled machines. G. F. Hauf. 2,666,607, Jan. 19.
Supporting apparatus. C. E. Holm. 2,666,608, Jan. 19.
Surgical injection device. K. Junkmann and H. Röhrig. 2,666,435, Jan. 19.
Survey instrument. C. J. Borkowski. 2,666,865, Jan. 19.
Swab for toilet bowls, Cleaning. L. B. Farrell. 2,666,223, Jan. 19.
Swaging machine, Gang saw. R. S. Richardson. 2,666,347, Jan. 19.
Swather attachment, Reversibly driven. J. Page, Jr. 2,666,518, Jan. 19.
Swing frame changing ring. S. A. Wittmayer. 2,666,305, Jan. 19.
Switch: *See*—
  Electronic switch. Stop switch.
  Float switch.
Switch assembly, Waterproof. W. C. Burkhard, Jr. and N. W. Magyar. 2,666,829, Jan. 19.
Switch for telephonic or other commutation systems, Selector. E. Alizon. 2,666,811, Jan. 19.
Switching circuit. A. Packard. 2,666,867, Jan. 19.
Switching control system. J. P. Juley. 2,666,578, Jan. 19.
Switching system. E. G. Alizon. 2,666,810, Jan. 19.
Switching system, Electrical. T. H. Flowers. 2,666,809, Jan. 19.
Synchronous contact device for electric contact converters. E. Rolf. 2,666,820, Jan. 19.
Synchroscope. H. T. Rights. 2,666,900, Jan. 19.
Synthesis of organic phosphates. G. M. Steinberg. 2,666,778, Jan. 19.
Syringe. R. W. Ogle. 2,666,433, Jan. 19.
Syringe, Disposable. R. W. Ogle. 2,666,434, Jan. 19.
System for energizing electrical precipitators and the like. R. E. Willison. 2,666,496, Jan. 19.
Table adjusting mechanism for machine tools. K. Zwick. 2,666,366, Jan. 19.

Table with adjustable cantilever shelf. N. T. Olofsson. 2,666,679, Jan. 19.
Table with automatic leg locking mechanism, Folding. J. Pucci. 2,666,683, Jan. 19.
Table with crosslegs, Folding. M. D. McCormick. 2,666,682, Jan. 19.
Table with foldable leaves, Extendable. H. Alperstein. 2,666,680, Jan. 19.
Tabulating mechanism for accounting machines. R. A. Christian, J. R. Ganger, J. H. Crawford, and H. C. Johnson. 2,666,517, Jan. 19.
Tank structure, Gas. D. A. Armstrong and W. J. Raleigh. 2,666,550, Jan. 19.
Tantalum welding fixture. C. Mott. 2,666,833, Jan. 19.
Tape control system for camera film winds, Film metering. H. A. Bing. 2,666,375, Jan. 19.
Tape dispenser. H. Chow. 2,666,544, Jan. 19.
Tape facsimile apparatus. C. E. Hunt, Jr. 2,666,807, Jan. 19.
Tarnish-resistant bronze powder and treatment process therefor. J. Halberstadt. 2,666,714, Jan. 19.
Teakettle. M. S. Ziskin and R. B. Billig. 2,666,556, Jan. 19.
Telescopic boom, Hydraulic. C. A. Harsch. 2,666,417, Jan. 19.
Temperature control apparatus for steam heating systems. J. S. Lock and D. J. Noggle. 2,666,586, Jan. 19.
Temperature-sensing method and unit. I. J. Barsy. 2,666,799, Jan. 19.
Temple for weaving looms. R. Dewas. 2,666,457, Jan. 19.
Tent window. F. M. Powers. 2,666,441, Jan. 19.
Terephthalic acid synthesis. M. Kulka and R. H. F. Manske. 2,666,786, Jan. 19.
Thermometer assembly with limited luminous background. M. J. Hiler. 2,666,329, Jan. 19.
Thermometer case. R. Beck and V. S. Belpedio. 2,666,328, Jan. 19.
Thermoresponsive color change control device. W. B. Whitney. 2,666,583, Jan. 19.
Thermostatically controlled electric water heater. E. and C. Krah, and W. Rudy. 2,666,838, Jan. 19.
Threaded article and support therefor. C. R. Nalle. 2,666,334, Jan. 19.
Throttle blade design, Rotary. J. S. Jaquith. 2,666,618, Jan. 19.
Tier-lift mechanism for industrial trucks, Hydraulically operated. E. J. Abbe. 2,666,501, Jan. 19.
Tire tread and apparatus for forming same. H. E. Kimes. 2,666,470, Jan. 19.
Tool: *See*
Mastic-applying and finishing tool. — Screw-adjusting tool.
Tool for brake shoe retracting springs. W. W. White. 2,666,256, Jan. 19.
Torch and igniter for use with low boiling point fuel. Hand. R. E. Peterson. 2,666,480, Jan. 19.
Track roller. J. L. Deffenbaugh. 2,666,674, Jan. 19.
Traction chain. S. L. Richards and W. H. Devonshire. 2,666,471, Jan. 19.
Tractor, Farm. J. A. Johnson. 2,666,491, Jan. 19.
Traffic marker. E. C. Mattson. 2,666,373, Jan. 19.
Training seat and step-stool, Combined child's. H. A. Wiley. 2,666,210, Jan. 19.
Transducer. R. D. Campbell. 2,666,861, Jan. 19.
Transformer. D. Kayser. 2,666,859, Jan. 19.
Transmission line Kerr cell. J. W. Beams and H. S. Morton, Jr. 2,666,363, Jan. 19.
Trap: *See*
Variable throwing angle target trap.
Tray table and coffee table, Convertible folding. J. B. Adler. 2,666,681, Jan. 19.
Tray, Tool supporting. C. H. Ingwer. 2,666,609, Jan. 19.
Treating chamber. W. N. Frandsen. 2,666,528, Jan. 19.
Treating hydrocarbons. W. E. Scovill. 2,666,733, Jan. 19.
Treating hydrocarbons with a double-function catalyst. E. B. McConnell. 2,666,732, Jan. 19.
Treating metal powders. M. N. Fredenburgh. 2,666,696, Jan. 19.
Treating plastic articles. R. B. Battersby. 2,666,694, Jan. 19.
Treatment of fatty oils. A. W. Hixson and R. Miller. 2,666,773, Jan. 19.
Trenching machine. G. W. McIninch. 2,666,273, Jan. 19.
Trestle. C. Q. Hughes. 2,666,673, Jan. 19.
Trinuclear polymethine dyes containing a pyrryl indolyl, or pyrrocolyl nucleus. D. W. Heseltine and L. G. S. Brooker. 2,666,781, Jan. 19.
Tripod head. T. Nerman. 2,666,610, Jan. 19.
Tube: *See*
Image intensifier tube. — Ruggedized electron tube.
Tubes from strip material, Producing. G. Seulen and F. Alf. 2,666,831, Jan. 19.
Tuning device. C. F. Gerlach. 2,666,905, Jan. 19.
Tweezers, Illuminated. S. G. Zuckerman. 2,666,843, Jan. 19.
Two-way communication system. R. B. Colton, E. Labin, and G. A. Deschamps. 2,666,845, Jan. 19.
Typewriting machine, Plural keyboard. C. W. Brumhill and A. Pateman. 2,666,515, Jan. 19.
Ultraviolet ray applicator. A. F. Pesce. 2,666,436, Jan. 19.
Umbrella rib, Flexible. T. I. Fortner. 2,666,442, Jan. 19.
Unsaturated primary aromatic alcohols, Preparation of. T. R. Steadman. 2,666,795, Jan. 19.
Urinal, Patient's. C. Sherva. 2,666,209, Jan. 19.
Use of methylal to prevent emulsions in esters during the aqueous wash. I. A. M. Ford. 2,666,781, Jan. 19.
Valve: *See*
Ball valve. — Indexing valve.
Gate valve. — Self-sealing relief valve.
Valve. G. R. Ericson. 2,666,616, Jan. 19.
Valve actuating mechanism. R. Sheppard and P. G. Ipsen. 2,666,452, Jan. 19.
Valve construction. M. H. Grove and A. U. Bryant. 2,666,614, Jan. 19.
Valve means for controlling two independent sources of pressurized fluid. W. D. Teague, Jr. 2,666,449, Jan. 19.
Valve structure for controlling high-pressure fluids. W. A. Ray. 2,666,451, Jan. 19.
Variable light-modifying device for phase contrast. P. Boone. 2,666,361, Jan. 19.
Variable light-modifying device for phase contrast. E. D. Tillyer. 2,666,362, Jan. 19.
Variable throwing angle target trap. H. C. Foster. 2,666,424, Jan. 19.
Ventilating and filtering system for Diesel-electric driven locomotives. A. Weber. 2,666,497, Jan. 19.
Ventilator. C. L. Ammerman. 2,666,378, Jan. 19.
Vise-jaw faceplate having magnetic insert of lesser thickness, Resilient. R. T. Phillips. 2,666,352, Jan. 19.
Vulcanizable composition. L. Baker. 2,666,755, Jan. 19.
Wash box hutch draw-off. R. L. Pate. 2,666,525, Jan. 19.
Washing machine, Spray type. L. D. Bechtol. 2,666,439, Jan. 19.
Washing machine, squeezer extractor. C. F. Abresch. 2,666,315, Jan. 19.
Washing machine, Squeezer extractor. R. R. Candor. 2,666,316, Jan. 19.
Web centerline control device. J. C. Frommer. 2,666,639, Jan. 19.
Web tension control. F. J. Wood. 2,666,597, Jan. 19.
Welding head and flux hopper for continuous welding, Combined. G. G. Landis and N. J. Hoenle. 2,666,832, Jan. 19.
Welding machine. C. Mott. 2,666,834, Jan. 19.
Well heater. H. D. Bowman. 2,666,487, Jan. 19.
Wheel chock. E. L. Fee. 2,666,502, Jan. 19.
Wheel unit, Idler. F. E. Rhine. 2,666,676, Jan. 19.
Wind scoop, Retractable. A. P. Davis. 2,666,604, Jan. 19.
Winding coils in pairs with a continuous strand of wire, Method of and apparatus for. J. H. Bieg. 2,666,592, Jan. 19.
Window construction. A. and L. Kaufman. 2,666,235, Jan. 19.
Window frame structure, Two-part preformed. L. L. Lester, Jr. 2,666,234, Jan. 19.
Window sash frame structure. M. J. Nardulli. 2,666,508, Jan. 19.
Wiper for members operating in wells. G. R. Hunt. 2,666,621, Jan. 19.
Wrapping machine for irregularly curved articles. E. R. Denrborn. 2,666,283, Jan. 19.
Writing instrument. E. W. Rickmeyer. 2,666,416, Jan. 19.
X-ray film cassette. L. W. Gacki and W. A. Winfield. 2,666,855, Jan. 19.
X-ray fluorescent response intensifier. F. Fua and R. C. Woods. 2,666,856, Jan. 19.
Yarn tensioning device for loom shuttles. J. E. Blanchard. 2,666,456, Jan. 19.

CLASSIFICATION OF PATENTS

ISSUED JANUARY 19, 1954

NOTE.—First number = class, second number = subclass, third number = patent number

1—	47: 2,666,201	47—	60: Pl.Pt.1,242	88—	16.8: 2,666,357	123—	120: 2,666,422	178—	6.6: 2,666,807	216—	25: 2,666,543				
2—	35: 2,666,202		61: Pl.Pt.1,243		28: 2,666,358		169: 2,666,423		13: 2,666,808		33: 2,666,544				
	111: 2,666,203		Pl.Pt.1,244		29: 2,666,359	124—	9: 2,666,424	179—	15: 2,666,809	219—	3: 2,666,830				
	206: 2,666,204		62: Pl.Pt.1,245		2,666,360	126—	25: 2,666,425		18: 2,666,810		6: 2,666,831				
	2,666,205		Pl.Pt.1,246		39: 2,666,361		2,666,426		27.51: 2,666,811		8: 2,666,832				
	2,666,206	49—	58: 2,666,277		2,666,362		391: 2,666,427		86: 2,666,812		2,666,833				
	239: 2,666,207	50—	23: 2,666,278		61: 2,666,363	128—	20: 2,666,428		100.2: 2,666,813		2,666,834				
	267: 2,666,208	51—	11: 2,666,279		97: 2,666,364		33: 2,666,429		171: 2,666,814		10: 2,666,835				
4—	110: 2,666,209		142: 2,666,280	89—	24: 2,666,365		83: 2,666,430		2,666,815		20: 2,666,836				
	134: 2,666,210		197: 2,666,281	90—	13.1: 2,666,366		158: 2,666,431		2,666,816		39: 2,666,837				
	252: 2,666,211		282: 2,666,282		58: 2,666,367		205: 2,666,432		2,666,817		41: 2,666,838				
5—	86: 2,666,212	53—	104: 2,666,283	92—	21: 2,666,699		216: 2,666,433		2,666,818		46: 2,666,839				
	131: 2,666,213		114: 2,666,284		27: 2,666,368		218: 2,666,434		2,666,819		2,666,840				
	288: 2,666,214	54—	44: 2,666,285		38: 2,666,369		2,666,435	180—	45: 2,666,491		47: 2,666,841				
	297: 2,666,215	55—	51: 2,666,286		44: 2,666,370		396: 2,666,436		65: 2,666,492	220—	2.2: 2,666,545				
	327: 2,666,216	56—	122: 2,666,287		49: 2,666,371	131—	4: 2,666,437	182—	31: 2,666,493		3.4: 2,666,546				
	331: 2,666,217		400.17: 2,666,288	93—	93: 2,666,372		244: 2,666,438	183—	6: 2,666,494		4: 2,666,547				
12—	51: 2,666,218	57—	19: 2,666,289	94—	1.5: 2,666,373	134—	2: 2,666,720		7: 2,666,495		15: 2,666,548				
	88: 2,666,219	58—	56: 2,666,290	95—	7: 2,666,700		57: 2,666,439		2,666,496		19: 2,666,549				
15—	21: 2,666,220	60—	35.5: 2,666,291		2,666,701		188: 2,666,440		36: 2,666,497		67: 2,666,550				
	146: 2,666,221		51: 2,666,292		18: 2,666,374	135—	14: 2,666,441		37: 2,666,498		94: 2,666,551				
	185: 2,666,222		53: 2,666,293		31: 2,666,375		31: 2,666,442		82: 2,666,499		97: 2,666,552				
	210: 2,666,223		54.6: 2,666,294		88: 2,666,702	136—	4: 2,666,799		114.2: 2,666,500	222—	90: 2,666,553				
	223: 2,666,224		97: 2,666,295		2,666,703		110: 2,666,800	187—	9: 2,666,501		183: 2,666,554				
	229: 2,666,225	61—	30: 2,666,296	97—	26: 2,666,376		111: 2,666,801	188—	32: 2,666,502		340: 2,666,555				
	250: 2,666,226	62—	1: 2,666,297		225: 2,666,377		2,666,802		72: 2,666,503		473: 2,666,556				
16—	145: 2,666,227		3: 2,666,298	98—	43: 2,666,378		135: 2,666,803		152: 2,666,504		479: 2,666,557				
18—	16: 2,666,228		4: 2,666,299	99—	91: 2,666,704	137—	84: 2,666,443		153: 2,666,505	223—	68: 2,666,558				
	21: 2,666,229		103: 2,666,300		118: 2,666,705		118: 2,666,444		206: 2,666,506		2,666,559				
	30: 2,666,230		117.4: 2,666,301		123: 2,666,706		198: 2,666,445	189—	2: 2,666,507		2,666,560				
	54: 2,666,684		2,666,302		140: 2,666,707		225: 2,666,446		76: 2,666,508		94: 2,666,561				
19—	130: 2,666,231		123: 2,666,303		163: 2,666,708		420: 2,666,447	192—	.02: 2,666,509	226—	14: 2,666,562				
	135: 2,666,232		170: 2,666,304		2,666,709		540: 2,666,448		3: 2,666,510		88.1: 2,666,563				
20—	2: 2,666,233	63—	15: 2,666,305		171: 2,666,710		630.22: 2,666,449		22: 2,666,511		97: 2,666,564				
	11: 2,666,234		2,666,306		204: 2,666,711		633: 2,666,450		82: 2,666,512		99: 2,666,565				
	49: 2,666,235	64—	11: 2,666,307		282: 2,666,379		656: 2,666,451	193—	39: 2,666,513	229—	39: 2,666,566				
	57.5: 2,666,236		17: 2,666,308		329: 2,666,380		701: 2,666,452	194—	61: 2,666,514		45: 2,666,567				
	2,666,237	65—	20: 2,666,309	100—	31: 2,666,381	138—	37: 2,666,453	196—	18: 2,666,730	230—	1: 2,666,568				
	95: 2,666,238		61: 2,666,310	101—	30: 2,666,382		44: 2,666,454		52: 2,666,731		56: 2,666,569				
22—	162: 2,666,239	66—	89: 2,666,311		56: 2,666,383	139—	165: 2,666,455		2,666,732		132: 2,666,570				
23—	65: 2,666,686		126: 2,666,312		131: 2,666,384		217: 2,666,456		2,666,733		182: 2,666,571				
	129: 2,666,687		157: 2,666,313		248: 2,666,385		295: 2,666,457		120: 2,666,734	233—	24: 2,666,572				
	147: 2,666,688		176: 2,666,314		364: 2,666,386		336: 2,666,458	197—	5: 2,666,515	235—	14: 2,666,573				
	151: 2,666,689	68—	12: 2,666,315	102—	2: 2,666,387	140—	92.8: 2,666,459		11: 2,666,516		60.2: 2,666,574				
	206: 2,666,690		21: 2,666,316		70.2: 2,666,388	143—	32: 2,666,460		177: 2,666,517		61: 2,666,575				
	253: 2,666,691	69—	41: 2,666,317		76: 2,666,389		52: 2,666,461	198—	102: 2,666,518		2,666,576				
	288: 2,666,692	70—	50: 2,666,318		78: 2,666,390		96: 2,666,462		181: 2,666,519		2,666,577				
24—	137: 2,666,240		97: 2,666,319	103—	2: 2,666,391	144—	309: 2,666,463	199—	50: 2,666,520		2,666,578				
	201: 2,666,241		146: 2,666,320		38: 2,666,392		2,666,464	200—	30: 2,666,820		61.6: 2,666,579				
	205: 2,666,242		418: 2,666,321		113: 2,666,393	146—	7: 2,666,465		33: 2,666,821		63: 2,666,580				
	234: 2,666,243		419: 2,666,322		117: 2,666,394	148—	11.5: 2,666,721		67: 2,666,822		106: 2,666,581				
	241: 2,666,244	72—	130: 2,666,323		118: 2,666,395		12: 2,666,722		84: 2,666,823		144: 2,666,582				
	259: 2,666,245	73—	99: 2,666,324		170: 2,666,396		2,666,723		88: 2,666,824	236—	1: 2,666,583				
25—	42: 2,666,246		116: 2,666,325	106—	38.22: 2,666,685		16.6: 2,666,724		89: 2,666,825		15: 2,666,584				
	121: 2,666,247		149: 2,666,326		124: 2,666,712		26: 2,666,725		93: 2,666,826		51: 2,666,585				
27—	17: 2,666,248		172: 2,666,327		162: 2,666,713	150—	3: 2,666,466		97: 2,666,827		68: 2,666,586				
28—	2: 2,666,249		374: 2,666,328		290: 2,666,714		38: 2,666,467		116: 2,666,828	240—	2: 2,666,842				
	39: 2,666,250		376: 2,666,329		309: 2,666,715	151—	35: 2,666,468		168: 2,666,829		6.46: 2,666,843				
29—	34: 2,666,251		425.2: 2,666,330	107—	1: 2,666,397	152—	183: 2,666,469	202—	39.5: 2,666,735		78: 2,666,844				
	148: 2,666,252	74—	7: 2,666,331		4: 2,666,398		211: 2,666,470		42: 2,666,736	241—	20: 2,666,587				
	155.5: 2,666,254		230.17: 2,666,332		12: 2,666,399		239: 2,666,471		153: 2,666,737		2,666,588				
	155.55: 2,666,253		242.9: 2,666,333		15: 2,666,400	154—	1.6: 2,666,472	204—	46: 2,666,738		88: 2,666,589				
	211: 2,666,255		424.8: 2,666,334		47: 2,666,401		106: 2,666,726		190: 2,666,739		291: 2,666,590				
	227: 2,666,256		425: 2,666,335	108—	7: 2,666,402	155—	123: 2,666,473	206—	6: 2,666,521	242—	7: 2,666,591				
30—	62: 2,666,257		462: 2,666,336	110—	18: 2,666,403		133: 2,666,474		38: 2,666,522		9: 2,666,592				
	349: 2,666,258		472: 2,666,337		40: 2,666,404		147: 2,666,475		84: 2,666,523		55: 2,666,593				
32—	26: 2,666,259		503: 2,666,338	112—	235: 2,666,405		177: 2,666,476	209—	119: 2,666,524		2,666,594				
33—	85: 2,666,260		2,666,339	114—	61: 2,666,406		179: 2,666,477		457: 2,666,525		55.2: 2,666,595				
	93: 2,666,261		551.9: 2,666,340		144: 2,666,407		197: 2,666,478		474: 2,666,526		57: 2,666,596				
	148: 2,666,262		574: 2,666,341	116—	67: 2,666,408	158—	27.4: 2,666,479	210—	2: 2,666,740		75: 2,666,597				
	164: 2,666,263		710: 2,666,342		114: 2,666,409		33: 2,666,480		24: 2,666,741		76: 2,666,598				
	168: 2,666,264		715: 2,666,343	117—	68: 2,666,716	160—	348: 2,666,481		62: 2,666,527		122: 2,666,599				
	169: 2,666,265		801: 2,666,344		86: 2,666,717		354: 2,666,482		131: 2,666,528	244—	31: 2,666,600				
	180: 2,666,266		804: 2,666,345		122: 2,666,718	164—	17.5: 2,666,483		185: 2,666,529		2,666,601				
	199: 2,666,267	75—	.5: 2,666,696		132: 2,666,719		48: 2,666,484	211—	99: 2,666,530		49: 2,666,602				
	201: 2,666,268		128: 2,666,697	118—	24: 2,666,410		70: 2,666,485		135: 2,666,531		90: 2,666,603				
34—	10: 2,666,269		177: 2,666,698		215: 2,666,411		2,666,486	212—	70: 2,666,532		103: 2,666,604				
	47: 2,666,270	76—	40: 2,666,346		267: 2,666,412	166—	17: 2,666,487	213—	153: 2,666,533	248—	63: 2,666,605				
	181: 2,666,271		52: 2,666,347		301: 2,666,413	167—	30: 2,666,727	214—	1: 2,666,534		117.6: 2,666,606				
37—	142: 2,666,272	80—	6: 2,666,348	119—	23: 2,666,414		53.2: 2,666,728		11: 2,666,535		131: 2,666,607				
	191: 2,666,273		7: 2,666,349		52: 2,666,415		73: 2,666,729		2,666,536		163: 2,666,608				
38—	93: 2,666,274	81—	3: 2,666,350	120—	51: 2,666,416	169—	42: 2,666,488		2,666,537		165: 2,666,609				
41—	42: 2,666,693		15: 2,666,351	121—	46: 2,666,417	170–135.74:	2,666,489		2,666,538		183: 2,666,610				
	2,666,694		38: 2,666,352		120: 2,666,418		160.2: 2,666,490		17: 2,666,539		226: 2,666,611				
43–42.06:	2,666,275	84—	520: 2,666,353	122—	135: 2,666,419	174—	153: 2,666,804		149: 2,666,540		310: 2,666,612				
44—	40: 2,666,695	85—	1: 2,666,354	123—	45: 2,666,420		2,666,805		655: 2,666,541		313: 2,666,613				
46—	50: 2,666,276	88—	14: 2,666,355		78: 2,666,421	178—	5.2: 2,666,806	215—	38: 2,666,542	250—	15: 2,666,845				

250— 16: 2,666,846
20: 2,666,847
27: 2,666,848
2,666,849
33.67: 2,666,850
36: 2,666,851
2,666,852
40: 2,666,853
43.5: 2,666,854
68: 2,666,855
71: 2,666,856
83.6: 2,666,857
214: 2,666,858
251— 27: 2,666,614
68: 2,666,615
96: 2,666,616
133: 2,666,617
252— 1: 2,666,742
33.6: 2,666,743
2,666,744
47: 2,666,745
56: 2,666,746
2,666,747
438: 2,666,748
448: 2,666,749
253— 78: 2,666,618
254— 86: 2,666,619
255— 1.4: 2,666,620
23: 2,666,621
61: 2,666,622
69: 2,666,623
257— 6: 2,666,624
32: 2,666,625

259— 151: 2,666,626
260— 2: 2,666,750
2.5: 2,666,751
23: 2,666,752
41.5: 2,666,753
2,666,754
79.5: 2,666,755
94.9: 2,666,756
175: 2,666,757
192: 2,666,758
209: 2,666,759
239.1: 2,666,760
240.1: 2,666,761
247.1: 2,666,762
2,666,763
251: 2,666,764
329: 2,666,765
345.5: 2,666,766
359: 2,666,767
367: 2,666,768
397.4: 2,666,769
2,666,770
405.6: 2,666,771
410.6: 2,666,781
414: 2,666,772
428.5: 2,666,773
429: 2,666,774
448.2: 2,666,775
2,666,776
461: 2,666,777
2,666,778
2,666,779
465.3: 2,666,780

260— 486: 2,666,782
490: 2,666,783
501: 2,666,784
507: 2,666,785
523: 2,666,786
545: 2,666,787
556: 2,666,788
559: 2,666,789
570.9: 2,666,790
571: 2,666,791
576: 2,666,792
2,666,793
608: 2,666,794
618: 2,666,795
627: 2,666,796
633: 2,666,797
683.2: 2,666,798
262— 8: 2,666,627
2,666,628
2,666,629
2,666,630
2,666,631
263— 21: 2,666,632
33: 2,666,633
265— 47: 2,666,634
58: 2,666,635
267— 4: 2,666,636
49: 2,666,637
270— 53: 2,666,638
271— 2.6: 2,666,639
272— 63: 2,666,640
273— 1.5: 2,666,641
100: 2,666,642

273— 106: 2,666,643
134: 2,666,644
149: 2,666,645
2,666,646
274— 10: 2,666,647
2,666,648
2,666,649
27: 2,666,650
42: 2,666,651
280— 21: 2,666,652
478: 2,666,653
492: 2,666,654
282— 25: 2,666,655
285— 35: 2,666,656
206: 2,666,657
286— 1: 2,666,658
26: 2,666,659
292— 68: 2,666,660
159: 2,666,661
294— 55: 2,666,662
63: 2,666,663
83: 2,666,664
87: 2,666,665
296— 16: 2,666,666
299— 95: 2,666,667
102: 2,666,668
114: 2,666,669
121: 2,666,670
302— 14: 2,666,671
37: 2,666,672
304— 5: 2,666,673
305— 1: 2,666,674
307— 17: 2,666,859

307— 35: 2,666,860
88: 2,666,861
308— 178: 2,666,675
187: 2,666,676
238: 2,666,677
309— 4: 2,666,678
310— 8.1: 2,666,862
112: 2,666,863
311— 40: 2,666,679
54: 2,666,680
79: 2,666,681
83: 2,666,682
87: 2,666,683
313— 65: 2,666,864
93: 2,666,865
185: 2,666,880
258: 2,666,866
315— 19: 2,666,867
22: 2,666,868
39: 2,666,869
217: 2,666,870
317— 13: 2,666,871
2,666,872
235: 2,666,873
2,666,874
318— 7: 2,666,875
8: 2,666,876
52: 2,666,877
72: 2,666,878
135: 2,666,879
336: 2,666,881
350: 2,666,882
320— 23: 2,666,883

321— 45: 2,666,884
322— 24: 2,666,885
28: 2,666,886
323— 24: 2,666,887
58: 2,666,888
66: 2,666,889
324— 24: 2,666,890
31: 2,666,891
34: 2,666,892
36: 2,666,893
53: 2,666,894
55: 2,666,895
61: 2,666,896
65: 2,666,897
66: 2,666,898
79: 2,666,899
91: 2,666,900
332— 9: 2,666,901
29: 2,666,902
333— 24: 2,666,903
83: 2,666,904
336— 15: 2,666,905
139: 2,666,906
339— 22: 2,666,907
97: 2,666,908
135: 2,666,909
249: 2,666,910
340— 318: 2,666,911
345: 2,666,912
351: 2,666,913
343— 5: 2,666,914

CLASSIFICATION OF DESIGNS

D 3—13: Des. 171,297
D 9— 6: Des. 171,301
D14—18: Des. 171,305
30: Des. 171,303
D17— 3: Des. 171,311
D33—14: Des. 171,295

D40— 1: Des. 171,318
D44—10: Des. 171,287
29: Des. 171,307
D45— 4: Des. 171,296
9: Des. 171,300
Des. 171,306

D47— 7: Des. 171,313
D48—20: Des. 171,291
Des. 171,292
Des. 171,315
D49— 1: Des. 171,310
D52— 1: Des. 171,317

D56— 1: Des. 171,316
D57— 1: Des. 171,302
D58— 9: Des. 171,291
12.6: Des. 171,298
D71— 1: Des. 171,290
Des. 171,293

D74— 1: Des. 171,304
5: Des. 171,288
Des. 171,289
D81—10: Des. 171,314
D83— 1: Des. 171,312
D90— 8: Des. 171,299

D93— 4: Des. 171,308
Des. 171,309

U. S. GOVERNMENT PRINTING OFFICE: O— 1954

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,548,337. Quick-Change Gear Converter. Patented Apr. 10, 1951. Gear converter may be applied to a lathe or similar machine equipped with conventional change speed gears by removing the gears and mounting the converter on the same bracket or fixture which formerly supported the original gears. By manually manipulating a pair of gear shift levers of the converter, a highly selective number of gear ratios may be obtained, a ratio chart being provided as a guide to selection of the ratios. The converter includes a manually operable clutch for feed speed reduction with any gear combination. (Owner) Angelo J. Barraco, 9 Roosevelt Terrace, Irvington, N. J. Group 35—41—66. Reg. No. 52,343.

American Can Company, owner of Willie Gill and Samuel S. Nicholson Patent No. 2,662,649, is prepared to grant a non-exclusive license on reasonable royalty terms to such manufacturers in the United States of America and its territories as may be able to use the invention or inventions covered by said patent and who will make a written application for such a license.

Written application for license should be addressed to Charles H. Ernst, Attorney-in-Charge of the Patent Division of American Can Company, 100 Park Ave., New York 17, N. Y.

Pat. 2,662,649. Shipping Package. Patented Dec. 15, 1953. A compact shipping and storage package built up from staggered rows of heavy elongated articles, such as sheet metal can ends in paper tubes, wherein one or more fiber strips or other flexible binder element is wound between the rows and around overhanging outer articles to securely bind the articles tightly together. By this arrangement expensive wooden crates and metal crates or braces are eliminated. Groups 26—64; 35—42. Reg. No. 52,344.

Des. 169,164. Trundle Toy. Patented Mar. 31, 1953. (Term of patent 7 years.) The design shows a trundle toy arranged to impart to a doll the realistic appearance of being engaged in the act of jumping a rope when the toy is trundled along a level surface. (Owner) Charles W. Morgan, 1016 Hyde Park Blvd., Chicago 15, Ill. Groups 39—42; 40. Reg. No. 52,345.

Pat. 2,187,507. Burglar Alarm System. Patented Jan. 16, 1940. Essentially, the invention consists of a burglar alarm system incorporating tear gas, so arranged that two acts, (1) forceful entry of premises and (2) tripping of a contact hidden within the premises, must take place before the gas can be discharged. Either act alone causes an alarm to sound to give any legitimate occupant of the premises a warning and opportunity to turn the system off and re-set it, should either of the two acts occur accidentally before leaving the premises. In this manner, inadvertent discharge of the gas is prevented. (Owner) Edwin O. Walker, 3145 Broadway, Chicago 14, Ill. Group 36—62. Reg. No. 52,346.

Pat. 2,643,395. Emergency Stretcher. Patented June 30, 1953. Emergency stretcher to be carried and mounted in an automobile trunk is especially suitable for police, firemen, doctors, Red Cross workers, etc., for transporting patients to a hospital. A pair of spaced parallel tracks are secured to the floor of the trunk to slidably receive another pair of tracks. A foldable rectangular canvas stretcher having a pair of frame members, cross members, and supporting pieces is secured to the upper tracks. Hand rails are secured to the frame members for moving the stretcher into and out of the trunk. A bar is mounted on the lower tracks to engage a portion of the hand rails and limit the outward movement of the stretcher. A telescoping stand is pivotally connected to a cross member at the outer end of the stretcher to support the stretcher in extended operative position for emergency use. (Owner) Odysseus Stassinos, 2410 East 7th St., Charlotte, N. C. Groups 25—19; 38—31. Reg. No. 52,347.

Pat. 2,618,868. Educational Device. Patented Nov. 25, 1952. Small mechanical device, manually operable by instructor or pupil, whereby simple spelling and arithmetic may be taught simultaneously or separately. A housing has the upper part of one wall slanted, with windows in the slanted part. Each window has an aperture beneath it in which figures or letters appear, and a lens bar above it for enlarging the figures or letters to avoid eye strain. A plurality of discs are rotatably mounted in compact assembly on a shaft mounted in the housing, with figures or letters on the peripheries of the discs for selective display in the windows. Each disc is manipulated independently through meshed gear and pinion means driven by a rotatable spindle. Strips bearing arithmetical symbols are movable by flanges so that problems may be presented, such as 3+2=FIVE. The device is inexpensive to manufacture and small enough to be handled by a child and to be carried in a garment pocket. (Owner) Laurance Howard Medlock TMC U. S. N., 7261 Oakwood Lane, San Diego 11, Calif. Group 39—41—81—99. Reg. No. 52,348.

Pat. 2,647,333. Folding Ironing Board. Patented Aug. 4, 1953. Ironing board collapsible to a convenient size for carrying is hinged at the center, forming a base section and a sleeve section. The sections are pivotally connected to the upper part of a U-shape foundation and four legs are pivotally connected to the lower part of the foundation. The ends of the sections are supported in outwardly extended positions by jackknife braces. Folding braces are pivotally attached to the legs, and clips are provided on the foundation to engage the upper outer surfaces of the legs to assist the braces in limiting spreading movement of the legs while the ironing board is in use. (Owner) Anthony J. Olshefski, 1114 Poplar St., Kulpmont, Pa. Group 35—81. Reg. No. 52,349.

Pat. 2,648,512. Bag Holder. Patented Aug. 11, 1953. Frame holds a bag in upstanding position with its mouth open for easy filling. A supporting bracket is removably secured to a stationary post or wall. Slidably mounted on the bracket is a standard which may be shifted up or down according to the height of the bag. A horizontal U-shape frame has its intermediate part connected to the upper part of the standard, and a pair of straight laterally spaced arms extending forward to surround on three sides the mouth of a bag. At the end of each arm are a forward facing fixed prong and a movable slide carrying a backwardly facing prong, for insertion in the bag's mouth. The slide may be tiltably locked by pins on ratchet teeth on the arms, for release when the bag is full. For bags too small for the frame, an elongated hook is pivoted on one arm to be swung across and form a three-point engagement with the small bag held by the two prongs on the opposite arm. (Owner) Axel R. Scholin, 5060½ North Winchester Ave., Chicago, Ill. Groups 33—81; 34—41. Reg. No. 52,350.

Pat. 2,533,947. Electric Spoon. Patented Dec. 12, 1950. Device for making a small amount of coffee, tea, or the like has an electrically heated perforated chamber for holding a small amount of the material to be brewed. The chamber may be immersed in a cup of water or the like to heat the water and cause it to circulate through the perforated chamber and the material therein so that the desired beverage will be brewed. The device is in the form of a pair of oppositely disposed hingedly connected spoon-shaped members having a pair of spring pressed handles for normally holding the bowl portions together. A wall inside each bowl portion divides the interior into an inner sealed chamber and an outer open chamber. The side walls of the outer chambers are provided with a series of openings to provide a closed perforated chamber when the bowl portions are together. Electrical heating elements in the sealed chambers are connected to conductors extending outwardly through the handles. (Owners) Bernard and Romuald Lipnicki, 337 Clinton St., New Britain, Conn. Groups 36—21; 40. Reg. No. 52,351.

Pat. 2,544,462. Brake Attachment. Patented Mar. 6, 1951. Snow or ice brake attachment for vehicles, to be used when the normal brakes are ineffective, to prevent the vehicle from skidding and for stopping the vehicle. A transverse shaft is supported beneath a vehicle either forwardly or rearwardly of the rear wheels by a pair of hangers secured to the under side of the vehicle body. A pair of brake shoes are rockably mounted adjacent the opposite ends of the shaft. The shoes include an L-shaped body which is secured at an acute angle to an arm having a bushing on its upper end which is mounted on the shaft. The shoes are connected by a bar, and a spring is connected between the bar and the vehicle to normally maintain the shoes in retracted inoperative position. An operating pedal which projects through the floor boards may be rocked forwardly to swing the brake shoes downwardly to engage the ground. (Owners) Bernard and Romuald Lipnicki, 337 Clinton St., New Britain, Conn. Group 38—31. Reg. No. 52,352.

Pat. 2,603,761. Cathode-Ray Tube. Patented July 15, 1952. Electron beam or cathode ray tube such as is used for oscillographs, television tubes, etc., has a multiple filament, the individual filaments being alternately switched in or out as desired by the operator to obtain longer life for the tube. A switch is built into a conventional cylindrical socket in such a manner that it does not protrude to a marked extent. The switch includes a narrow slot leading from the interior of the socket into a cross-shape recess on the outside, and a slide of the same general shape and thickness as the recess adapted to be moved therein. As the slide is moved in the recess, a resilient switching tongue on the back of the slide passes through the slot, and a depression on the tip of the tongue selectively contacts one of the fixed contacts in the interior of the socket connected respectively to the filaments. (Owner) Walter E. Angell, 225 77th St., Brooklyn 9, N. Y. Group 36—61—92. Reg. No. 52,353.

Pat. 2,630,629. Straight and Slant Bottom Ruler or Gauge for Trousers. Patented Mar. 10, 1953. Ruler or gauge for fitting a pair of trousers upon a customer in a tailor shop or clothing store is equally useful when cutting trousers to length on a cutting table. The device is especially useful as an effective standard for forming and cutting the legs of trousers to proper length with the bottom of the trousers at either the usual slight slant or at a greater and more pronounced slant than usual. The device, which is of substantially inverted T-shape, has two entirely different and distinct indications thereon so that the difference is immediately evident without close inspection to avoid confusion in the use of the device when a particular slant is desired. (Co-owner) Joseph Montes, 3216 Kings Highway, Brooklyn 34, N. Y. Groups 35—65; 39—81; 40. Reg. No. 52,354.

Pat. 2,580,129. Tangleproof Twine Dispenser. Patented Dec. 25, 1951. Tangle-preventing cop holder for paying off twine, wrapping cord, and the like from a freely rotatable hollow core which forms the cop. A stationary frame has spaced apart cop-straddling portions with bearings thereon. A vertical spindle rotatable in the bearing extends axially through the hollow core. One side of a turntable on the spindle near one of the bearings faces one axial end of the cop. A resilient device on the spindle near the other bearing derives thrust from the spindle, presses against the other end of the cop, and urges the cop axially against the side of the turntable with sufficient force to cause the cop to turn with the turntable. Spaced barriers stationary with the frame extend alongside the spindle at sufficient radial distance therefrom to make room inside the structure for the turntable and cop to overrun line-impelled rotation of the cop. (Owner) Alice M. Rich, 1139 Fairfield Ave., Bridgeport, Conn. Groups 33—59; 34—99. Reg. No. 52,355.

Pat. 2,643,412. Window Cleaning Apparatus. Patented June 30, 1953. Apparatus for cleaning the outside of windows without a person leaning out the window. It comprises: A base plate releasably secured to project outwardly from the bottom of a window frame; a support member tiltingly and releasably supporting on the plate an upstanding housing with the inner side open; pulleys within the housing with an endless belt; and a bracket, extending through the housing opening and carrying a removable wiper assembly. A rubber band around the lower pulley is attached to the bracket and to the top of the housing. With the window open, the housing is manually adjusted to the size of the pane along two numerical scales and in an outwardly tilted position, with the bracket and wiper assembly releasably latched in elevated position. As the window is lowered and presses an arm of the support member downwardly, the housing is tilted to vertical position, automatically releasing the bracket and wiper assembly, permitting the rubber band to pull the assembly down to clean the pane. The apparatus is moved laterally and the procedure repeated to clean the entire pane. (Owner) Louis Romano, 2076 Clinton Ave., Bronx 57, N. Y. Group 35—89. Reg. No. 52,356.

Pat. 2,645,320. Quick-Change Clutch Disk. Patented July 14, 1953. Mounting for a clutch disk whereby the lining may be readily removed and replaced. Each of two semicircular disk sections has an offset central portion with an arcuate mounting rib thereon, and each section has a center recess. Lining strips are provided on the peripheral edges of the sections. A mounting hub has a shoulder with a flange which has an annular recess to receive the mounting ribs. A mounting flange has a central opening to receive the shoulder of the hub and has an annular bead on one face to register with the recess of the flange of the hub to position the disk sections on the hub. Dowel pins on the flange of the hub register with openings on the mounting flange for clamping the disk sections on the hub and are held in position by cap screws. (Owner) Leslie W. Thompson, 2148 Algonquin Parkway, Louisville 10, Ky. Groups 35—66; 38—31. Reg. No. 52,357.

Pat. 2,443,408. Slingshot. Patented June 15, 1948. Slingshot in which the thumb and forefinger of the user's hand are used as the supporting means. Two elastic side pieces are vulcanized at one end to the ends of a projectile-carrying leather strip pocket. The other ends of the side pieces are vulcanized to a tubular open-ended thumb stall and a similar forefinger stall respectively. The stalls are shaped with a tab to which the side pieces are fastened, the tab in the thumb stall being placed at the top and folded back, and the tab on the finger stall curving downwardly. The stalls may be used on either hand, and, when they are placed well down on the thumb and forefinger and the hand clenched, a missile may be catapulted from the pocket without danger of hitting the hand. May be folded into a very small package for carrying. (Owner) William L. Walker, Box 18732, G-2, Reidsville, Ga. Groups 39—49; 40. Reg. No. 52,358.

Pat. 2,550,551. Convenience Package. Patented Apr. 24, 1951. Small cylindrical package, containing a toilet seat cover of thin tissue paper and a limited number of toilet tissues, to be carried in a purse, pocket, glove compartment of an automobile, etc. The seat cover is folded to the conventional size of a piece of toilet paper, and a limited number of individual sheets of toilet paper are arranged therewith. The seat cover and toilet paper are rolled into a compact, cylindrical body approximately 5" x ½". A pull cord is wound around the center of the body, and a wrapper is applied in such a manner that the free end of the cord is anchored in adhesive which seals the edges of the wrapper. The tip end of the cord projects therefrom for easy gripping when tearing the package open. (Owner) Mabel E. Gourdin, 15077 Dickens St., Los Gatos, Calif. Groups 26—69; 40. Reg. No. 52,359.

Des. 169,917. Miniature Toy Bassinet. Patented June 23, 1953. (Term of patent 7 years.) Design for a miniature bassinet which may be used as a toy for children, table decoration at a baby shower, decoration on cakes, or as a motif for Mother's Day. (Owner) E. L. Stowell, % L. S. Saulsbury, 55 West 42d St., New York 36, N. Y. Groups 39—41—81; 40. Reg. No. 52,360.

Pat. 2,601,900. Valve for Fire-Extinguishing System. Patented July 1, 1952. Quick acting valve for automatically turning on the flow of fire-extinguishing fluid, such as carbon dioxide gas, upon occurrence of a fire, has particular usefulness for extinguishing fires occurring in tobacco curing barns. A wire having spaced low melting point fuse links along its length is connected to part of the building and to a leaf spring of the valve so that when a fuse link melts the spring will swing outwardly and release latching means to permit the valve to open. A plunger for depressing the valve stem to open position is held in raised latched position by a pivoted double faced cam having one face seated in a notch in the plunger stem and the other face seated in a notch in the leaf spring. A spring surrounds the valve stem to normally maintain the valve closed. A fluid inlet conduit connected to the source of fire-extinguishing fluid and to the side of the valve containing the valve-seating spring admits fluid under pressure to assist the valve-seating spring in maintaining the valve in closed air-tight sealing condition when the plunger is in raised latched position. (Owners) Cecil H. Rand and C. G. Aycock, Fremont, N. C. Groups 33—61; 39—99. Reg. No. 52,361.

Patents Removed from Register

Pat. 2,305,869. Art of Making Ornamental Articles. Reg. No. 38,555.

Pat. 2,337,099. Ornamental Article and Method of Making Same. Reg. No. 38,556.

These two patents, listed in the *Register* section of the OFFICIAL GAZETTE, Oct. 3, 1950, have been removed from the Register.

TRADE-MARKS

OFFICIAL GAZETTE, JANUARY 19, 1954

[VOL. 678. No. 3]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 648,021. Horn, Jefferys and Co., Burbank, Calif. Filed June 1, 1953.

STAR DUST

For Additives to Drilling Mud for the Control of Lost Circulation in Oil Wells Composed of Lamellae, Fibers, and Granules.

Claims use since Apr. 27, 1953.

Ser. No. 652,150. Brender's Leghorns, Ferndale, N. Y. Filed July 30, 1953. (Sec. 2f.)

BRENDER'S Leghorns

The word "Leghorns" is disclaimed apart from the mark shown in the drawing.

For Live Baby Chicks, Live Chickens, and Eggs for Hatching.

Claims use since Dec. 1, 1943.

CLASS 2

RECEPTACLES

Ser. No. 627,060. Fort Wayne Corrugated Paper Company, Fort Wayne, Ind. Filed Mar. 26, 1952. (Sec. 2f as to "Fort Wayne.")

Fort Wayne TRIP-MASTER

Applicant claims ownership of Registration No. 521,718.

For Corrugated Paper Cartons or Cases for Shipping Bottles of Beverages.

Claims use since Feb. 29, 1952.

Ser. No. 644,643. Sutherland Paper Company, Kalamazoo, Mich. Filed Apr. 2, 1953.

FLEETLOK

For Collapsible Cartons Made of Fibre or Container Board.

Claims use since on or about June 15, 1949.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 641,360. Wampum Products, Inc., New York, N. Y. Filed Jan. 26, 1953.

WAMPUM

For Dog Collars.

Claims use since Sept. 29, 1952.

Ser. No. 651,096. Federated Department Stores, Inc., doing business under the name and style of Wm. Filene's Sons Company, Cincinnati, Ohio, and Boston, Mass. Filed July 30, 1953.

FASHIONATIONS

For Women's Handbags Made of Straw, Leather, Synthetic Fibers, and Combinations Thereof.

Claims use since June 17, 1953.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 586,434. I. Rokeach & Sons, Inc., Brooklyn, N. Y. Filed Oct. 17, 1949. (Sec. 2f as to the name "Rokeach.")

ROKEACH TOV SCOURING POWDER

The color lining is for red. The Hebrew characters mean "Kosher" indicating conformity with Jewish dietary laws and customs. The words "Heavy Duty," "Scouring Powder," the Hebrew characters meaning "Kosher," and the representation of the Star of David are disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 82,261, 189,058, and others.

For Scouring Powder.

Claims use since on or about Sept. 1, 1949, as shown; and since on or about May 1, 1924, as to the name "Rokeach" or the words "Rokeach Scouring Powder" and the Hebrew characters and representation of the Star of David.

Ser. No. 639,233. N. V. Tana Maatschappij, Amersfoort, Netherlands. Filed Dec. 9, 1952.



Applicant claims ownership of Dutch Registration No. 73,596, dated Dec. 21, 1938.

For Preparation for Polishing Boots, Shoes, and Other Leather Articles.

Ser. No. 641,517. Reinhold O. Nuss, doing business as Metallic Magic Razor Hone Co., Spokane, Wash. Filed Jan. 29, 1953.

"METALLIC MAGIC"

The word "Metallic" is disclaimed apart from the mark.

For Metallic Hone Mounted on a Composition Base, for Sharpening Straight Cutting Edges.

Claims use since Dec. 31, 1952.

Ser. No. 649,116. Borax, Consolidated, Limited, doing business as Pacific Coast Borax Co., Division of Borax Consolidated, Limited, London, England, and Los Angeles, Calif. Filed June 22, 1953.



Applicant claims ownership of Registrations Nos. 50,383, 327,847, and others.

For Boric Acid Spangles for Use in Rendering Floors Suitably Smooth and Slippery for Dancing.

Claims use since September 1891.

Ser. No. 649,244. National Grinding Wheel Company, Inc., North Tonawanda, N. Y. Filed June 23, 1953.

NATAFLEX

Applicant claims ownership of Registrations Nos. 433,412 and 433,413.

For Grinding Wheels.

Claims use since June 3, 1953.

CLASS 5

ADHESIVES

Ser. No. 639,457. Swan-Finch Oil Corporation, New York, N. Y. Filed Dec. 5, 1952.



The lining on the drawing represents the color red.

The words "Established 1853" are disclaimed except as used with the mark. Applicant claims ownership of Registration No. 234,048.

For Core Oils and Core Binders.

Claims use since Jan. 26, 1951.

Ser. No. 645,540. Caram Manufacturing Company, Monrovia, Calif. Filed Apr. 20, 1953.

CARAM

For Adhesives and Cements Having a Natural or a Synthetic Rubber Base Used as a Solvent Between Metal or Wood Joints and Wherever a Water Insoluble Temporary or Permanent Bond is Required as in Securing Paper to Paper, Leather to Leather, Attaching Labels, Securing in Place Rugs, Carpets, and Pads Therefor.

Claims use since Dec. 1, 1945.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 614,369. Stalfort Pressure-Pak, Inc., Baltimore, Md. Filed May 25, 1951.

SANISENT

For Aerosol Room Deodorant.

Claims use since Apr. 1, 1951.

Ser. No. 621,983. Research Products Corporation, Madison, Wis. Filed Dec. 1, 1951.

do-kote

No claim is made to the word "Kote" apart from the mark as shown.

For Adhesive Dust-Arresting Composition Having Air-Deodorizing Properties, for Air Filters To Be Used With Heating, Ventilating, and Air-Conditioning Equipment.

Claims use since Aug. 8, 1951.

Ser. No. 622,890. L. Givaudan & Cie S. A., Vernier, Geneva, Switzerland. Filed Dec. 27, 1951.

Vétynal

Applicant claims ownership of Swiss Registration No. 139,479, dated Oct. 29, 1951.

For Products Prepared From Terpenes of Clove Essence for Use in the Manufacture of Perfume Compositions.

Ser. No. 624,539. R. M. Hollingshead Corporation, Camden, N. J. Filed Feb. 5, 1952.

ATTAK

For Insecticide.

Claims use since March 1946.

Ser. No. 633,357. Foote Mineral Company, Philadelphia, Pa. Filed Aug. 1, 1952.

K-Arc

The drawing is lined for the color blue.

For Synthetic Chemical Preparation for the Production of A. C. Type Welding Electrodes.

Claims use since July 3, 1952.

Ser. No. 637,639. Bereda Manufacturing Company, Chicago, Ill. Filed Nov. 5, 1952.

BEREDA

For Mirror Backing in the Nature of a Paint.

Claims use since January 1909.

Ser. No. 640,233. Stein, Hall & Company, Inc., New York, N. Y. Filed Dec. 31, 1952.

HALLMARK
DANISH CROWN

The word "Danish" is disclaimed when used apart from the mark shown in the drawing. Applicant claims ownership of Registrations Nos. 546,969 and 554,576.

For Potato Starch.

Claims use since Dec. 2, 1952.

Ser. No. 642,343. Alphonsus J. Clearkin, doing business as Clearkin Chemical Company, Philadelphia, Pa. Filed Feb. 17, 1953.

CORROSION BATTLER

Applicant disclaims the word "Corrosion."

For Corrosion Preventives.

Claims use since Jan. 15, 1948.

Ser. No. 644,488. Ansul Chemical Company, Marinette, Wis. Filed Mar. 31, 1953.

ANDRITE

For Desiccant for Refrigerants.

Claims use since Feb. 20, 1953.

Ser. No. 644,597. The Chem-Plex Company, Inc., Jersey City, N. J. Filed Apr. 2, 1953.

PLEXENE

For Chemicals in Liquid or Powdered Form Used as Sequestering Agents in the Treatment of Water.

Claims use since Dec. 31, 1952.

Ser. No. 645,816. The Lincoln Electric Company, Cleveland, Ohio. Filed Apr. 23, 1953.

760

For Flux for Use in Arc Welding.

Claims use since on or before June 23, 1950.

Ser. No. 645,817. The Lincoln Electric Company, Cleveland, Ohio. Filed Apr. 23, 1953.

780

For Flux for Use in Arc Welding.

Claims use since on or before Mar. 1, 1949.

Ser. No. 645,818. The Lincoln Electric Company, Cleveland, Ohio. Filed Apr. 23, 1953.

840

For Flux for Use in Arc Welding.
Claims use since on or before Feb. 13, 1951.

Ser. No. 645,899. Willard A. Keltner, doing business under the name Keltner Chemical Co., Gardendale, Ala. Filed Apr. 24, 1953.

BETLENE

For Bean Beetle Repellent.
Claims use since Apr. 2, 1952.

Ser. No. 647,622. Guardian Chemical Corporation, Long Island City, N. Y. Filed May 25, 1953.



The mark consists of a shield flanked by two standing figures. The figures represent ancient Roman soldiers of no specific personal identity.
For Group of Products of Related Chemical Composition Having Multiple Uses as a Bleach, Disinfectant, and Water Purifier.
Claims use since Oct. 8, 1952.

Ser. No. 647,686. Crown Chemical Corporation, Providence, R. I. Filed May 26, 1953.

DRYON

For Chemical Preparation for Rendering Textile Fibers, Threads, and Fabrics Water Repellent.
Claims use since Feb. 16, 1953.

Ser. No. 649,199. Van Ameringen-Haebler, Inc., New York, N. Y. Filed June 22, 1953.

ENDOR

For Aromatic Chemicals and Compounds Used Industrially for Masking of Obnoxious Odors and for Odor Treatment.
Claims use since Mar. 11, 1953.

Ser. No. 649,213. John Clarke & Co., Inc., New York, N. Y. Filed June 23, 1953.

ENDEW

For Fungicide.
Claims use since on or about Mar. 16, 1953.

Ser. No. 649,351. Dodge & Olcott, Inc., New York, N. Y. Filed June 25, 1953.

DOLCOURIN

Applicant claims ownership of Registration No. 547,521.
For Flavoring Agent.
Claims use since June 17, 1953.

Ser. No. 649,374. Lehigh Valley Chemical Company, Easton, Pa. Filed June 25, 1953.

Target

Applicant claims ownership of Registrations Nos. 393,042, 422,317, and others.
For Anti-Freeze Composition of Matter.
Claims use since Sept. 22, 1952.

Ser. No. 649,387. Robeson Process Company, New York, N. Y. Filed June 25, 1953.

ROBSYNTAN

For Liquid Composition of Matter Employed as a Treating and Tanning Agent in the Manufacture of Leather From Hides and Skins.
Claims use since May 28, 1953.

Ser. No. 649,420. Geigy Company, Inc., New York, N. Y. Filed June 26, 1953.

DIAZINON

For Insecticides.
Claims use since May 11, 1953.

Ser. No. 649,472. Lyle Branchflower Company, Seattle, Wash. Filed June 29, 1953.

LEBCOL

For Mixtures of Methyl Esters of Naturally Occurring Fatty Acids.
Claims use since Apr. 28, 1952.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 640,205. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Filed Dec. 31, 1952.



Applicant disclaims the words "Liberty," "Truth," "Justice," and "Equality" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 528,273, 557,627, and others.
For Cigarette Lighters and Cigarette Cases.
Claims use since Oct. 24, 1947.

Ser. No. 640,207. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Filed Dec. 31, 1952.



The portrait of the lady shown in the drawing is fanciful. Applicant disclaims the words "For Home," "For Country," "and for God," and "Auxiliary" apart from the mark as shown. The lining shown in the drawing is for shading purposes only. Applicant claims ownership of Registrations Nos. 528,273, 557,627, and others.
For Cigarette Lighters and Cigarette Cases.
Claims use since Oct. 24, 1947.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 606,595. Banner Fireworks Mfg. Co., Inc., Toledo, Ohio. Filed Nov. 18, 1950.



For Pyrotechnics and Pyrotechnical Display Materials—Namely, Sparklers, Aerial Noise and Flash Bombs, Flash Crackers, Sky Rockets, Roman Candles, Comet Shells, Star Shells, Flares, Sparkling Torches, Parade Torches, Flitter Fountains, Shower Fountains, Spangle Mines, Torpedoes, Fire Crackers, Multiple Break Shells, Floral Shells, Buzz Bombs, Cherry Bombs, Spinning Wheels, Parachute Flares, Magnesium Flares, Meteoric Showers, Parachute Shells.
Claims use since Oct. 18, 1950.

Ser. No. 638,479. Fabrique Nationale d'Armes de Guerre, Societe Anonyme, Herstal, Belgium. Filed Nov. 22, 1952.



The monogram consists of the letters "F" and "N."
For Shot Guns, Rifles, Pistols, Shot Gun Shells, Rifle and Pistol Cartridges, Rifle and Pistol Cartridge Bullets.
Claims use since Aug. 4, 1906; and since Aug. 31, 1923, in commerce among the several States of the United States.

CLASS 10

FERTILIZERS

Ser. No. 642,602. Armour and Company, doing business under the trade style Armour Fertilizer Works, Chicago, Ill. Filed Feb. 24, 1953. (Sec. 2f as to "Armour.")



Applicant claims ownership of Registrations Nos. 134,212 and 546,827.
For Fertilizers.
Claims use since Nov. 1, 1952, on the mark as shown; and since 1896 as to "Armour."

Ser. No. 645,297. Ferro Corporation, Cleveland, Ohio. Filed Apr. 15, 1953.

F·T·E

For Friable Glasslike Substances in Finely Divided Form Containing Essential Plant Foods for Use as a Fertilizer.
Claims use since Aug. 15, 1952.

Ser. No. 645,737. Stern's Nurseries, Inc., Geneva, N. Y. Filed Apr. 22, 1953. (Sec. 2f as to "Stern's.")

STERN'S LECTRO-LOAM

The word "Loam" is disclaimed apart from the trade-mark as shown in the drawing.
For Soil Conditioner.
Claims use since Jan. 20, 1953, on the mark as shown; and since Jan. 28, 1948, on the word "Stern's."

Ser. No. 646,750. Federal Chemical Company, Louisville, Ky. Filed May 11, 1953.



Applicant claims as part of its trade-mark the colors red and blue; and disclaims for purposes of registration the notation "Since 1884" and the term "Fertilizers" apart from the mark as shown.
For Commercial Chemical Fertilizers, Which Are Made Up of Varying Proportions of Nitrogen, Potash, Phosphoric Acid, and Minimum Amounts of Leaf Mold, Tobacco Stems, Etc.
Claims use since Jan. 6, 1948.

Ser. No. 648,176. Hydroponic Gardens, Inc., Taunton, Mass. Filed June 3, 1953.

Enchanted Garden

No claim is made to the word "Garden" apart from the mark shown.
For Plant Food.
Claims use since May 19, 1953.

Ser. No. 649,132. Deere & Company, Moline, Ill. Filed June 22, 1953.

VITREA

For Chemical Fertilizer.
Claims use since May 28, 1953.

Ser. No. 649,181. William W. Prichard, doing business as The Zest Co., Swampscott, Mass. Filed June 22, 1953.

ZEST

For Liquid Fertilizer.
Claims use since June 1, 1953.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 650,120. Remington Rand Inc., New York, N. Y. Filed July 10, 1953.

DUR-EDGE

For Inked Ribbons.
Claims use since Apr. 2, 1952.

Ser. No. 651,045. Foote & Davies, Inc., Atlanta, Ga. Filed July 29, 1953.

FODA

For Ink for Writing and Printing.
Claims use since June 9, 1953.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 631,513. Weather Products Corporation, Providence and Warwick, R. I. Filed June 20, 1952.



No claim is made to the words "Ever Seal" except as used with the remainder of the mark. The seal is black, the umbrella, a white background outlined in black, the rectangle is a black lined border with the words in white on a red background which is separated from the black border by a white border.
For Storm Window and Screen Combinations.
Claims use since May 6, 1948.

Ser. No. 636,623. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed Oct. 15, 1952.

ALKOR

For Alkali and Acid Proof Cement Comprising a Furane Resin.
Claims use since June 4, 1941.

Ser. No. 638,988. H. C. Vandaveer, Strawn, Tex. Filed Dec. 4, 1952.



The words "Red Dog" are disclaimed apart from the mark as shown.
For Light-Weight and Concrete Aggregate, Clinker and Paving Brick, Track Cinders, and Crushed Stone for Roofs, Driveways, Parkways, Paths, and Concrete.
Claims use since Nov. 11, 1942.

Ser. No. 640,457. Gunnison Homes, Incorporated, New Albany, Ind. Filed Jan. 7, 1953.

champion

For Pre-Fabricated Homes.
Claims use since about November 1949.

Ser. No. 641,817. The Weather-Proof Company, Cleveland, Ohio. Filed Feb. 5, 1953.



The words "Casement Storm Windows" are disclaimed. Also, each of the words "Stainless" and "Seal" is individually disclaimed.
For Storm Windows, Especially Storm Windows for Use on Casement Windows, and Combination Storm Windows and Screens.
Claims use since on or about Nov. 7, 1952.

Ser. No. 643,267. Apollo Aluminum Awnings, Inc., Lancaster, Pa. Filed Mar. 9, 1953.



The representation of the goods and the words "Sun-Guard" are disclaimed apart from the mark as shown. The vertical lining on the drawing represents the color red, but no claim is made to color.
For Aluminum Awnings.
Claims use since Jan. 9, 1953.

Ser. No. 644,058. Perma Lox Aluminum Shingle Corp., Portland, Oreg. Filed Mar. 23, 1953.

PermaLox

The word "Lox" is disclaimed apart from the mark.
For Aluminum Shingles and Sheeting Therefor.
Claims use since on or about July 15, 1952.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 640,926. The Enterprise Aluminum Company, Massillon, Ohio. Filed Jan. 19, 1953.

GRIP-MASTER

The word "Grip" is disclaimed apart from the mark as shown.
For Whistling Tea Kettles.
Claims use since Nov. 17, 1952.

Ser. No. 643,416. Froelich-Reeder-Froelich, Inc., Downey, Calif. Filed Mar. 10, 1953.

TELE-JAC

For Mounting Stand or Bracket for Anchoring Television Antenna Masts on Roof Structures.
Claims use since August 1952.

Ser. No. 647,966. The Turner & Seymour Manufacturing Company, Torrington, Conn. Filed May 29, 1953. (Sec. 2f.)

WILWEAR

For Bathroom Fixtures—Namely, Towel Rods and Hooks, Supports for Tumblers, Soap and Tooth Brushes, Toilet Paper Roll Holders, Glass Shelves Including Supporting Brackets Therefor.
Claims use since on or about Feb. 7, 1938.

Ser. No. 648,927. Leonard Lichtenstein, doing business as Leonard Distributing Co., Chicago, Ill. Filed June 17, 1953.



The words "Everything in Zippers" are disclaimed apart from the trade-mark.
For Zippers.
Claims use since on or about Jan. 15, 1953.

Ser. No. 648,948. Popeil Brothers, Inc., Chicago, Ill. Filed June 17, 1953.

delex

For Coffee Makers—Namely, Cold Water Coffee Concentrators.
Claims use since Jan. 12, 1953.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 634,646. Lando Products, Inc., San Francisco, Calif. Filed Aug. 29, 1952.



For Metal Venetian Blind Slat Stock.
Claims use since on or about Feb. 10, 1952.

Ser. No. 640,290. Mallinckrodt Chemical Works, St. Louis, Mo. Filed Jan. 2, 1953.

A. R.

For Laboratory Metals—Namely, Aluminum Metal Wire, Antimony Metal, Bismuth Metal, Copper Metal, Iron Reduced, Iron Wire, Lead Metal, Magnesium Metal, Mercury, Metal Devarda's, Nickel Metal, Silver Metal Precipitated, Sodium Metal, Tin Metal, Uranium Metal, and Zinc Metal.
Claims use since 1940.

Ser. No. 643,287. Calumet and Hecla, Inc., Calumet, Mich., and elsewhere in the United States. Filed Mar. 9, 1953.



For Copper Castings and Copper Billets.
Claims use since July 25, 1952.

Ser. No. 644,961. Bonnekamp, Arbuckle and Burge Steel Corp., Skokie, Ill. Filed Apr. 9, 1953.

Babsteel

For Steel—Namely, Annealed and Tempered Spring Steel, Electric Welded Steel Tubing in Stock Form, Electro Galvanized Strip Steel, Cold and Hot Rolled Sheets, Cold and Hot Rolled Strip, Flatwire and Shim Steel.
Claims use since June 3, 1951.

Ser. No. 647,890. Solar Steel Corporation, Cleveland, Ohio. Filed May 28, 1953.

TRU-KEY

For Steel Bars.
Claims use since Jan. 19, 1953.

Ser. No. 648,572. Solar Steel Corporation, Cleveland, Ohio. Filed June 10, 1953.

TRU-SHAFT

For Steel Bars.
Claims use since June 1, 1953.

CLASS 15

OILS AND GREASES

Ser. No. 644,685. Walter F. Morse, Springfield, Vt. Filed Apr. 3, 1953.

— Tapezze —

For Lubricated Tapping Wax.
Claims use since Jan. 11, 1950.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 627,230. Geo. Sproull Company, Inc., Shreveport, La. Filed Mar. 28, 1952.

Silver Seal

Applicant claims ownership of Registration No. 277,573.
For Ready-Mixed Paints, Stains, Enamels, and Varnishes, But Not Including Aluminum Paints.
Claims use since Jan. 25, 1952, as to the mark shown; and since on or about July 1, 1928, as to the mark in the form shown in Registration No. 277,573.

Ser. No. 630,252. Henry J. Kaiser Company, Oakland, Calif., assignor to Kaiser Gypsum Company, Inc., a corporation of Washington. Filed May 1, 1952. (Sec. 2f.)

KAISER-TEX

For Texture Paint for Interior Surfaces—Namely, a Pigmented Casein-Bound or Cereal-Bound Paint Containing a Gypsum Limestone Filler Sold in Powder Form to Which Water is Added.
Claims use since Jan. 9, 1950.

Ser. No. 632,470. Finnell System, Incorporated, Elkhart, Ind. Filed July 12, 1952.

FIN-R

For Floor Coating in the Nature of a Varnish.
Claims use since June 13, 1952.

Ser. No. 636,498. Rich Art Color Company, Inc., New York, N. Y. Filed Oct. 10, 1952.



For Artists' Materials—Namely, Oil Colors, Water Colors, Poster Colors, Fabric Colors, Tempora Colors, Varnishes, and Artists' Oils.
Claims use since on or about Sept. 1, 1926.

Ser. No. 639,701. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Dec. 18, 1952.

SCOTCHCAL

Applicant claims ownership of Registration No. 565,512.
For Paint Thinner.
Claims use since at least as early as September 1952.

Ser. No. 642,656. Robert Smith-Johannsen, doing business as Smith-Johannsen Wax Co., Niskayuna, N. Y. Filed Feb. 24, 1953.



The word "Skibelegg," which, when translated, means "skicoating," is disclaimed except in combination with the entire mark is shown.
For Liquid Plastic Base Coating Composition for Skis.
Claims use since Dec. 6, 1950.

Ser. No. 650,171. The Glidden Company, Cleveland, Ohio. Filed July 13, 1953.

GLIDVAR

For Varnish.
Claims use since Oct. 31, 1952.

Ser. No. 650,715. Kelley-Mahorney Company, Louisville, Ky. Filed July 23, 1953.

Convoy

For Enamel.
Claims use since Apr. 1, 1951.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 649,600. Larus & Brother Company, Richmond, Va. Filed June 30, 1953.

HOLIDAY

Applicant claims ownership of Registrations Nos. 400,357, 551,604, and 551,717.
For Smoking Tobacco and Cigarettes.
Claims use since Oct. 11, 1930.

Ser. No. 649,921. The Bloch Brothers Tobacco Co., Wheeling, W. Va. Filed July 7, 1953.

ROCK 'N RYE

For Smoking Tobacco.
Claims use since July 19, 1939.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 615,782. Jean U. Koree, New York, N. Y. Filed June 27, 1951.

NEOHEPARINGEL

For Anticoagulant.
Claims use since June 18, 1951.

Ser. No. 621,036. Margerite Virginia Sullivan, doing business as Acrozone Laboratories, New Orleans, La. Filed Nov. 8, 1951.



For Skin Ointment for the Treatment of Eczema, Said Ointment Having as a Constituent Thereof Acriflavine or an Acriflavine Compound.
Claims use since Aug. 30, 1951.

Ser. No. 632,050. Smith Kline & French Laboratories, Philadelphia, Pa. Filed July 1, 1952.

VI-DEXEMIN

Applicant claims ownership of Registrations Nos. 373,000 and 529,570.
For Medicine for Stimulation of the Central Nervous System, Treatment of Obesity, Control of Appetite, Stimulation of the Sympathetic Nervous System, Treatment of

Narcolepsy, Depression, Post-Encephalitic Parkinsonism, Commonly Known as Parkinson's Disease, and Alcoholism.
Claims use since Mar. 31, 1952.

Ser. No. 633,158. Madison Research Laboratory, Inc., Pasadena, Calif. Filed July 28, 1952.

Dermasoy

For Palatable Emulsion of Soy Bean Oil for Oral Use in the Nutritional Treatment of Eczema, Skin Allergy, and Dry Skin Condition.
Claims use since Dec. 1, 1951.

Ser. No. 636,140. Modern Products, Inc. of America, Milwaukee, Wis. Filed Oct. 3, 1952. (Sec. 2f.)

SWISS KRISS

Applicant claims ownership of Registrations Nos. 268,667 and 359,618.
For Laxative Compounded From Herbs and Vegetables.
Claims use since 1928.

Ser. No. 636,638. Heyden Chemical Corporation, New York, N. Y. Filed Oct. 15, 1952.

PROCILLAN

For Animal Feed Supplements.
Claims use since on or about Sept. 30, 1952.

Ser. No. 637,253. House of Huston, Inc., Coral Gables, Fla. Filed Oct. 27, 1952.

EAR CHEER

No claim is made to the exclusive use of the word "Ear" apart from the mark shown in the drawing.
For Germicidal, Fungicidal, and Insecticidal Preparation Having Soothing and Deodorizing Qualities, and Used for the Treatment of Ear Infections in Dogs and Also Used as an Antiseptic for the Treatment of Cuts, Bruises, and Irritations of the Skin.
Claims use since Dec. 27, 1950.

Ser. No. 638,763. Gides, Incorporated, Beverly Hills, Calif. Filed Nov. 29, 1952.

Gides

For Dietary Food Supplement.
Claims use since July 12, 1951.

Ser. No. 639,349. The Upjohn Company, Kalamazoo, Mich. Filed Dec. 11, 1952.

Panmycin

For Antibiotic Preparation for the Treatment of Bacterial Infections.
Claims use since Nov. 6, 1952.

Ser. No. 641,386. James Liakopoulos, doing business as Jim's Barber Shop, Douglas, Ariz. Filed Jan. 27, 1953.

Magic Root

Applicant disclaims the right to any exclusive use of the word "Root" except in the association shown.
For Liquid Preparation for the Treatment of the Hair, and for the Treatment of Callouses and for Relief of Tired, Aching Feet.
Claims use since Sept. 8, 1952.

Ser. No. 642,458. Borcherdt Malt Extract Company, Chicago, Ill. Filed Feb. 19, 1953.

BORVIRON

For Liquid Multivitamin-Iron Supplement Containing Vitamin A, Vitamin D, Thiamine Hydrochloride, Riboflavin, Pyridoxine Hydrochloride, Panthenol, Niacinamide, Iron (as Iron and Ammonium Citrate), Manganese (as Manganese Chloride), Mixed Tocopherols (as Antioxidant), Lecithin (as Stabilizer), Other Factors of the Vitamin B-Complex, Alcohol, Flavoring, and Color; and for Dietary Supplement in Capsule Form Containing Liver Concentrate, Ferrous Sulfate, and Thiamine.
Claims use since June 30, 1943.

Ser. No. 642,731. Commercial Solvents Corporation, New York, N. Y. Filed Feb. 25, 1953.

MOLATEIN

For Animal Feed Supplements Comprising Ammoniated Sugar-Containing Materials.
Claims use since Feb. 9, 1953.

Ser. No. 643,069. C. H. Boehringer Sohn, Ingelheim am Rhein, Germany. Filed Feb. 23, 1950.

BILIVAL

Applicant claims ownership of German Registration No. 227,246, dated Nov. 2, 1918.
For Medicinal Preparations for Treating Gall and Liver Diseases, Gallstone Specifics.

Ser. No. 643,070. C. H. Boehringer Sohn, Ingelheim am Rhein, Germany. Filed Feb. 23, 1950.

EFFORTIL

Applicant claims ownership of German Registration No. 478,954, dated Sept. 25, 1935.
For Medicinal Preparation for the Treatment of Heart and Circulatory Ailments.

Ser. No. 643,466. Commercial Solvents Corporation, New York, N. Y. Filed Mar. 11, 1953.

NEOBATIN

Applicant claims ownership of Registration No. 558,262.
For Compositions Comprising the Antibiotics Neomycin and Bacitracin.
Claims use since Feb. 25, 1953.

Ser. No. 643,597. Ira Lichtenstein, Baldwin, N. Y. Filed Mar. 13, 1953.

POTSAL

For Preparation for the Relief of Pains From Rheumatism and Arthritis.
Claims use since Oct. 1, 1942.

Ser. No. 643,942. Benjamin H. Brody, Brooklyn, N. Y. Filed Mar. 20, 1953.

HEPAROSOL

For Anti-Coagulant Preparation for Inhalation Therapy.
Claims use since on or about Feb. 3, 1953.

Ser. No. 645,370. American Cyanamid Company, New York, N. Y. Filed Apr. 16, 1953.

LEDERMYCIN

For Antibiotic.
Claims use since Mar. 31, 1953.

Ser. No. 645,450. Vico Products Company, Chicago, Ill. Filed Apr. 16, 1953.

YEASTOLAC

Applicant claims ownership of Registration No. 567,551.
For Protein Hydrolysate for Use as a Protein Supplement Additive.
Claims use since June 1940.

Ser. No. 645,620. Armour and Company, Chicago, Ill. Filed Apr. 21, 1953.

DELTAMIDE

For Sulfa Preparations for the Treatment of Infections.
Claims use since Sept. 29, 1952.

Ser. No. 646,416. John R. Murray, doing business as The Ray Drug Co., Oakland, Calif. Filed May 4, 1953.

BACOTOL

For Pharmaceutical Preparation Containing Tincture of Lobelia for Alleviating the Tobacco Habit.
Claims use since Feb. 15, 1952.

Ser. No. 646,500. Strong, Cobb and Company, Inc., Cleveland, Ohio. Filed May 5, 1953.

TETROBARBS

Applicant claims ownership of Registrations Nos. 579,804 and 579,805.
For Sedative Preparation Comprising a Combination of Phenobarbital Sodium and Pentylenetetrazol.
Claims use since on or about Mar. 11, 1953.

Ser. No. 647,045. The George H. Rundle Company, Piqua, Ohio. Filed May 14, 1953.

Pim

For Medicated Cream for Use in the Treatment of Blemishes, Irritations, and Abrasions of the Skin, Externally Caused.
Claims use since Mar. 10, 1951.

Ser. No. 647,258. The Borden Company, New York, N. Y. Filed May 19, 1953.

KREPRO

For Pig Feed Supplement, the Ingredients of Which Are Soybean Oil Meal, Dried Whey Solubles, Condensed Fish Solubles, Fish Liver and Glandular Meal, Crude Betaine Fraction of Beet Juice, Riboflavin, Soybean Lecithin, Niacin, Calcium Pantothenate, Metheonine, D Activated Plant Sterol, Vitamin A Feeding Oil, Vitamin B_{12} and Antibiotic Feed Supplement, 2 Percent Mineral Mix (Calcite Cobalt, Carbonate, Copper Hydroxide, Iron Carbonate, Red Iron Oxide, Potassium Iodide and Manganese Iodide).
Claims use since Feb. 27, 1953.

Ser. No. 647,319. Shulton, Inc., Clifton, N. J., and New York, N. Y. Filed May 19, 1953.

THYLOX SULPHUR CREAM

C-C

Applicant disclaims sole right to the words "Sulphur Cream" apart from the mark as shown. Applicant claims ownership of Registration No. 275,297.
For Ointment for Acne and Other Skin or Scalp Afflictions Responsive to Sulphur.
Claims use since Mar. 9, 1953.

Ser. No. 647,585. Baxter Laboratories, Inc., Morton Grove, Ill. Filed May 25, 1953.

TRAVOSYL

Applicant claims ownership of Registration No. 567,650.
For Fluids for Parenteral Use Comprising Water for Injection; Dextrose in Water; Dextrose and Sodium Chloride in Water; Sodium Chloride in Water; Dextrose and Vitamins in Water; Dextrose, Sodium Chloride, and Vitamins in Water; Dextrose, Alcohol, Sodium Chloride, and Vitamins in Water; Dextrose, Alcohol, and Vitamins

in Water; Sodium Chloride, Potassium Chloride, and Calcium Chloride in Water; Dextrose, Sodium Chloride, Potassium Chloride, and Calcium Chloride in Water; Sodium r-Lactate in Water; Sodium r-Lactate, Sodium Chloride, Potassium Chloride, and Calcium Chloride in Water; Sodium r-Lactate, Sodium Chloride, Potassium Chloride, Calcium Chloride, and Dextrose in Water; Dextrose, Alcohol, and Sodium Chloride in Water; Dextrose and Alcohol in Water; Hydrolyzed Protein in Water; Dextrose and Protein Hydrolysate in Water; Alcohol, Dextrose, and Protein Hydrolysate in Water; Acacia and Sodium Chloride in Water; Invert Sugar in Water; Histamine Diphosphate and Potassium Chloride in Water; Histamine Diphosphate and Sodium Chloride in Water; Sodium Sulfate in Water; and Medical Preparations for Topical Application Comprising Pectin Jelly.

Claims use since June 29, 1950.

Ser. No. 647,673. Wate-On Company, Chicago, Ill. Filed May 25, 1953.

WATE-GAYNE

For Oral Lipid Emulsion for Supplementing Caloric Intake and Aiding in Lipoid Adsorption.

Claims use since Mar. 10, 1952.

Ser. No. 647,674. Wate-On Company, Chicago, Ill. Filed May 25, 1953.

WATE-PLUS

For Oral Lipid Emulsion for Supplementing Caloric Intake and Aiding in Lipoid Absorption.

Claims use since Mar. 10, 1952.

Ser. No. 650,377. H. Lundbeck & Co. A/S, Copenhagen, Denmark. Filed July 16, 1953.

Tyrosolven

Applicant claims ownership of Danish Registration No. 578/.1953, dated May 9, 1953.

For Medicinal Preparation Containing an Antibiotic for Use in the Treatment of Infectious Diseases.

Ser. No. 650,468. White Laboratories, Inc., Kenilworth, N. J. Filed July 17, 1953.

G-TUSSIN

For Preparation for the Treatment of Coughs Due to Colds.

Claims use since July 10, 1953.

Ser. No. 650,576. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Filed July 21, 1953.

ANTEPAR

For Medicinal Preparation for Use as a Vermifuge.

Claims use since June 25, 1953.

Ser. No. 650,690. Ciba Limited, Basel, Switzerland. Filed July 23, 1953.

OLANDREN

Priority is claimed under Sec. 44(d). Swiss Application filed Apr. 9, 1953; Registration No. 146,151, dated Apr. 9, 1953.

For Male Sexual Hormone.

Ser. No. 650,852. Y-Cart Laboratories, Newton and West Newton, Mass. Filed July 24, 1953.

SORMUL

For Medicinal Preparation for the Treatment of Psoriasis and Other Skin Surface Ailments.

Claims use since on or about Apr. 25, 1953.

Ser. No. 650,952. Vitamins, Inc., Chicago, Ill. Filed July 27, 1953.

VISPAN

For Blood Plasma Substitute.

Claims use since Feb. 28, 1952.

Ser. No. 651,003. Mathieson Chemical Corporation, New York, N. Y. Filed July 28, 1953.

REZIPAS

For Antituberculotic Preparation.

Claims use since June 29, 1953.

Ser. No. 651,397. E. Fougera & Co., Inc., New York, N. Y. Filed Aug. 5, 1953.

FERLATE

For Preparation Used as an Oral Hematinic.

Claims use since Mar. 19, 1953.

CLASS 19

VEHICLES

Ser. No. 619,053. Aero Design & Engineering Co., Bethany, Okla. Filed Sept. 21, 1951.

AERO DESIGN *Commander*

No claim is made to the words "Aero Design" apart from the mark as shown on the drawing.

For Airplanes.

Claims use since Dec. 1, 1944.

Ser. No. 646,615. The Huffman Manufacturing Company, Dayton, Ohio. Filed May 7, 1953.

HUFFY RACER

No claim is made to the use of the word "Racer" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 532,830, 540,150, and 564,284.

For Bicycles and Structural Parts Thereof.

Claims use since Apr. 9, 1953.

Ser. No. 654,650. Crawford Manufacturing Co., Inc., Richmond, Va. Filed Oct. 13, 1953.

KAR-JEANS

For Automobile Seat Covers.

Claims use since June 23, 1953.

Ser. No. 654,894. Hudson Motor Car Company, Detroit, Mich. Filed Oct. 16, 1953.

JET LINER

Applicant claims ownership of Registrations Nos. 555,710, 578,090, and others.

For Automobiles and Automobile Bodies.

Claims use since on or about Aug. 21, 1953.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 640,432. Bonafide Mills, Inc., Winthrop, Maine, and New York, N. Y. Filed Jan. 7, 1953.

JIFFY - BOND

For Felt Base, Linoleum, Composition, and Plastic Floor Coverings and Rugs, Not Woven.

Claims use since Dec. 15, 1952.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 621,662. Emsco Derrick & Equipment Company, Los Angeles, Calif., now by change of name Emsco Manufacturing Company. Filed Nov. 26, 1951.

EMSCO

EMSCO

Applicant claims ownership of Registrations Nos. 370,912, 397,746, and others.

For Antenna and Radiator Towers for Communication and Signaling Purposes—Namely, Radio Towers, Television Towers, and Microwave Towers.

Claims use since March 1948.

Ser. No. 623,968. Landers, Frary & Clark, New Britain, Conn. Filed Jan. 23, 1952.

Jet 99

For Electrically-Driven Vacuum Cleaners for Domestic Use.

Claims use since Jan. 4, 1952.

Ser. No. 628,088. Capitol Industries, Inc., Chicago, Ill. Filed Apr. 15, 1952.

Circall

For Carrier Type Radio Transmitters and Receivers Designed for Transmission and Reproduction of Sound Over a Power Line.

Claims use since July 1951.

Ser. No. 635,494. Silent Chief Company, Minneapolis, Minn. Filed Sept. 19, 1952.

SILENT CHIEF

No claim is made to the word "Silent" apart from the mark as shown on the drawing.

For Electric Garbage Disposer.

Claims use since Aug. 9, 1952.

Ser. No. 637,024. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Filed Oct. 22, 1952. (Sec. 2f.)

Westinghouse

Applicant claims ownership of Registrations Nos. 103,016, 103,017, and others.

For Electrical Apparatus, Supplies and Parts Therefor—Namely, Electric Arc Lamps; Electric Incandescent Lamps; Flashlight Bulbs; Metallic Vapor, Automobile, Fluorescent, Ultra-Violet, Infra-Red and Glow Lamps; Starters for Fluorescent Lamps; Residential, Commercial, Industrial, Flood, Street, Aviation and Marine Lighting Apparatus and Parts Therefor; Electric Dry Cell Batteries; Electric Compensators; Electric Condensers and Capacitors; Electric Conductors; Electric Connectors and Terminals; Electric Motor Controllers and Parts Therefor Used for the Starting, Stopping, and Reversing of Electric Motors Controlling the Torque Output, Inching Speed, Slip, and Power Factor of Electric Motors, and Controlling the Pull-In Torque, Pull-Out Torque, and Time of Pull-In of Electrical Synchronous Motors; Electric Converters and Frequency-Changers; Electric Dynamotors; Electric and Diesel-Electric Locomotives and Parts Therefor; Electric Welding Apparatus and Parts Therefor; Welding Electrodes; Electromagnets; Electric Fans; Electric Fuses and Fuse-Holders; Electric Generators and Generator Parts; Electric Insulating Bushings; Electric Insulators and Insulating Materials in Solid Paste and Liquid Form; Lightning-Arresters, Suspension and Insulating Devices for Electric Trolley and Line Conductors; Frogs, Crossings, and Section-Insulators for Electric Trolley-Conductors; Electric Rail-Bonds; Electric Motor-Generators; Electric Voltage Regulators; Electric Motors and Motor Parts; Electric Motor-Starters; Electric Motor Regulators; Electric Relays; Electric Rheostats and Resistors; Electric Switchboards and Parts

Therefor; Electric Control Panels and Parts Therefor; Electric Switches and Circuit Breakers and Interrupters and Parts Therefor; Electric Synchronizers; Electric Transformers and Parts Therefor and Electric Choke Coils and Reactors; Electric Trolleys, Pantagraphs and Parts Therefor; Vapor, Electrolytic and Mechanical Electrical Rectifiers and Parts Therefor; Copper-Oxide and Selenium Rectifiers and Parts Therefor; Synchronous Condensers; Electric Discharge Devices Such as Thyratrons and Ignitrons; Electric Contactors; Electric Lamp Starters; Bus Ducts; Metal-Clad Switchgear and Other Switchgear Devices; Electric Cut-Outs; Automatic Circuit Reclosers; Electric Furnaces; Electric Hand-Irons, Parts and Stands Therefor; Electric Ovens; Electric Roasters; Electric Toasters; Electric Stoves and Ranges; Electric Chafing-Dishes; Electric Saute and Frying Pans; Electric Air-Heaters; Electric Heating Pads; Electric Sheets, Blankets and Comforters; Electric Curling Irons; Electric Waffle Bakers; Electric Sandwich Grills; Electric Hot Plates; Electric Food Mixers; Electric Vacuum Cleaners; Electric Immersion Heaters; Electric Water Heaters; Electric Dishwashers; Electric Garbage Disposal Units; Radio Telephone and Telegraph Transmitters and Receivers and Parts Therefor; Radio Broadcast and Television Transmitters and Receivers and Parts Therefor; Antenna Outfits and Systems; Head Phones; Loud Speakers; Circuit Tuners; Amplifiers; Detectors; Electronic Tubes for Radio, Television, Industrial and Other Purposes; Magnetrons; Klystrons; Record Players; Mobile Radio Apparatus; Point to Point Radio Communication Apparatus; Microwave Relay Apparatus; Radio Frequency Heating Apparatus; Power Line Carrier Communication Apparatus; Modulators; Photo-Electric Cells; Electrical Insulating Resin-Treated Fabrics and Tapes; Mica Insulation; Electrical Insulating Phenolic Resinous Material; Insulating Paints and Varnishes; Copper Wire; Insulated Wire; Electric Elevators, Lifts and Hoists; Porcelain and Plastic Lighting Parts for Electric Lights; Reflectors and Hoods for Electric Lamps; X-Ray Tubes; and Electric Stairways.

Claims use since during or about 1886.

Ser. No. 638,635. Century Lighting, Inc., New York, N. Y. Filed Nov. 26, 1952.

"Trig-O-Lector"

For Electric Lighting Switching Apparatus.
Claims use since June 26, 1952.

Ser. No. 639,878. Thomas A. Edison, Incorporated, West Orange, N. J. Filed Dec. 22, 1952.

DIAMOND

For Record Blanks for Use With Electrical Dictating Machines.
Claims use since Oct. 3, 1952.

Ser. No. 639,924. Electrical Fittings Corporation, Woodside, N. Y. Filed Dec. 23, 1952.



For Electrical Wiring Supplies and Accessories Therefor Used in the Construction of Commercial and Residential Buildings—Namely, Obrotund Conduit Bodies and Accessories Therefor, Such as Covers and Gaskets; Entrance Fittings for Rigid Conduit, Such as Entrance Caps, Entrance L's, Capped Elbows, and End Fittings; Rigid Conduit Fittings, Such as Three-Piece Couplings, Threadless Connectors, Threadless Couplings, 90° Bends, Straps, Spacers, Nipples, Locknuts, Bushings, Grounding Bushings, Capped Bushings, and Reducing Bushings; Reducing Washers; Knockout Seals; Combination Couplings for Coupling Rigid Conduit to Flexible Conduit; Bushing Pennles; Insulating Bushings and Covers Therefor; Fittings for Electrical Metallic Tubing, Such as Connectors, Couplings, 90° Connectors, Split Adapters, Entrance Caps, Combination Couplings for Coupling Electrical Metallic Tubing to Flexible Conduit, Spacers, Straps, Set Screw Connectors, Set Screw Fittings, and Set Screw Couplings; Electrical Metallic Tubing Benders; Cable Connectors; All Purpose Connectors Adaptable for Use Either With Non-Metallic, Service Entrance, and Armored Cables and/or Flexible Conduit, Such as Straight Clamp Connectors, Duplex Squeeze Connectors, and 90° Angle Connectors; Connectors for Armored Cable and Flexible Conduit, Such as Set Screw Type Connectors, Hinge Type Connectors, Clamp Type Connectors, Squeeze Type Connectors, Angle Connectors, Duplex Set Screw Connectors, Duplex Squeeze Type Connectors, 45° and 90° Two-Piece Connectors, and 90° Three-Piece Connectors; Clamp Connectors; Straight Box Connectors; Connectors for Non-Metallic and Entrance Cables, Such as Hinge Type Connectors, Two Screw Type Clamp Connectors, Duplex Squeeze Type Connectors, and Three-Piece 90° Connectors; Service Entrance Cable Fittings, Such as Hinge Type Connectors, Two-Screw Type Clamp Connectors, Duplex Squeeze Type Connectors, Three-Piece 90° Connectors, Straps, Sill Plates, Flange Type Entrance Heads, Entrance Caps, Midget Entrance Caps, and Watertight Connectors; U Straps; Armored Cable Clips; Straps for Armored Cable and Flexible Conduit; Straps for Non-Metallic Cable; Ground Fittings; Ground Fittings for Bare Ground Wire; Ground Fittings for Bare Armored Ground Wire, and Ground Fittings for Rigid Conduit; Ground Straps; Fixture Fittings, Such as Wall Plates, Fixture Studs, Boltless Type Studs, Fixture Extensions, Fixture Nuts, Box Covers, and Oil Burner Switch Plates; Conduit Nipples; Conduit Elbows; Conduit Couplings and Goose Necks.

Claims use since May 1935.

Ser. No. 640,559. Fansteel Metallurgical Corporation, North Chicago, Ill. Filed Jan. 9, 1953.

FASALOY

Applicant claims ownership of Registration No. 354,214.
For Electrical Contacts.
Claims use since on or about July 6, 1936.

Ser. No. 640,561. Fansteel Metallurgical Corporation, North Chicago, Ill. Filed Jan. 9, 1953.

FASTELL

Applicant claims ownership of Registration No. 367,243.
For Electrical Contacts.
Claims use since on or about July 2, 1937.

Ser. No. 642,064. Capehart-Farnsworth Corporation, Wilmington, Del., and Fort Wayne, Ind. Filed Feb. 11, 1953.

Monmouth

For Domestic Television Receiving Sets.
Claims use since May 1950.

Ser. No. 642,065. Capehart-Farnsworth Corporation, Wilmington, Del., and Fort Wayne, Ind. Filed Feb. 11, 1953.

The Ticonderoga

For Domestic Television Receiving Sets.
Claims use since May 1950.

Ser. No. 643,874. Touch-Plate Mfg. Corp., Long Beach, Calif. Filed Feb. 27, 1953. (Sec. 2f.)

TOUCH-PLATE

For Impulse Relays, Momentary Electrical Contact Switches, Converters, Transformers, Gang Boxes, Remote Control Switches, and Master Switch Panels.
Claims use since May 3, 1947.

Ser. No. 647,971. Viking Manufacturing Co., Inc., Stratford, Conn. Filed May 29, 1953.

BERMUDA

For Electric Space Heaters Generally for Domestic Use.
Claims use since Mar. 18, 1953.

Ser. No. 647,972. Viking Manufacturing Co., Inc., Stratford, Conn. Filed May 29, 1953.

NASSAU

For Electric Space Heaters Generally for Domestic Use.
Claims use since Apr. 20, 1953.

Ser. No. 647,973. Viking Manufacturing Co., Inc., Stratford, Conn. Filed May 29, 1953.



For Sun Lamps for General Use, Electric Portable Lighting Fixtures for Various Types of Lamps, Heat Lamps for General Use, and Electric Heaters.
Claims use since November 1952.

Ser. No. 648,551. Loew's Incorporated, New York, N. Y., and elsewhere. Filed June 10, 1953.

M-G-M

For Electrically Operated Phonographs and Record Players.
Claims use since May 22, 1953.

Ser. No. 648,573. Southern States Equipment Corporation, Hampton, Ga. Filed June 10, 1953.

AMPLITACT

For Electric Switches and Component Parts Thereof.
Claims use since May 22, 1953.

Ser. No. 650,444. Harvey Hubbell, Incorporated, Bridgeport, Conn. Filed July 17, 1953.



For Fluorescent Lamp Starters.
Claims use since May 19 ,1953.

Ser. No. 650,746. Sunbeam Corporation, Chicago, Ill. Filed July 23, 1953.

Sunbeam

For Electric Bottle Warmers.
Claims use since June 1, 1951.

Ser. No. 650,747. Sunbeam Corporation, Chicago, Ill. Filed July 23, 1953.

MIXMASTER JUNIOR

Applicant claims ownership of Registrations Nos. 281,291 and 327,314.
For Electric Food Mixers.
Claims use since Nov. 10, 1952.

Ser. No. 650,842. Sunbeam Corporation, Chicago, Ill. Filed July 24, 1953.

Sunbeam

For Electric Cookers and Deep Fryers.
Claims use since Mar. 12, 1952.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 548,857. Sears, Roebuck and Co., Chicago, Ill. Filed Feb. 5, 1948. (Sec. 2f.)

J.C.Higgins

For Group A—Baseball Gloves, Baseballs, Playground Balls, Softballs; Group B—Baseball Bats, Footballs, Basket Balls; Group C—Tennis Balls; Group D—Tennis Rackets; Group E—Soccer Balls; Group F—Chest Protectors; Group G—Volley Balls; Group H—Boxing Gloves, Striking Bags; Group I—Baseball Masks; Group J—Badminton Shuttlecocks, Badminton Racket Presses, Golf Clubs, Golf Bags, Golf Tees, Fishing Rods, Fishing Reels, Fishing Lines, Fishing Tackle Boxes, Beach Balls; Group K—Tennis Nets, Tennis Court Markers, Tennis Racket Presses, Tennis Racket Covers, Badminton Sets (Racket, Nets, Shuttlecocks), Badminton Rackets, Badminton Poles, Table Tennis Balls, Golf Balls, Fishing Seines, Fishing Nets, Fishing Sinkers, Fish Line Leaders, Bed Type Sleeping Bags; Group L—Archery Sets (Bows, Arrows, Targets, Arm and Finger Guards, Quivers), Archery Bows, Duck Calls, Crow Calls, Duck Decoys, Skis, Ski Poles; Group M—Artificial Fishing Lures (Flies, Plugs), Minnow Buckets; Group N—Fishing Hooks, Fishing Baits (Preserved Pork Rind and Salmon Eggs), Pitching Horseshoes; Group O—Ski Binding; Group P—Ice Skates, Football Helmets, Roller Skates.
Claims use since January 1908.

Ser. No. 625,420. Healthways, Los Angeles, Calif. Filed Feb. 23, 1952.

HEALTHWAYS

WEB FEET

The term "Web Feet" apart from the mark as shown is disclaimed.
For Swimming Fins Made of Rubber or Rubber Material, and Adapted To Be Worn on the Feet of a Swimmer.
Claims use since Jan. 2, 1952.

Ser. No. 633,002. David Steinman, Detroit, Mich. Filed July 24, 1952. (Sec. 2f.)

Johnny Walker

"Johnny Walker" is not the name of any particular living individual.
For Golf Equipment—Namely, Balls, Bags, Clubs, Carriers, and Tees; Baseball Equipment—Namely, Soft and Hard Balls, Bats, Gloves, and Guards; Football Equipment—Namely, Footballs, Shin Guards, Shoulder Pads, and Helmets; Basketball Equipment—Namely, Basketballs, Hoops, and Nets; Tennis Equipment—Namely, Tennis Rackets and Balls; Hockey Equipment—Namely, Pucks, Sticks, Shin Guards, and Gloves; Archery Equipment—Namely, Bows, Arrows, Targets, Target Faces, Target Stands, Archery Sets, Quivers, Archery Gloves, Arm Guards, Bow Straps, and Finger Tabs; Fishing Tackle—Namely, Rods, Reels, Lines, and Hooks; Swimming Equipment—Namely, Hand Fins and Feet Fins; Badminton Equipment—Namely, Rackets, Shuttle Cocks, Nets, and Posts; Table Tennis Sets—Namely, Paddles, Nets and Braces, and Balls; Toy Footballs, Boxing Gloves, Punching Bags, Soccer Balls, and Volley Balls.
Claims use since Apr. 1, 1937.

Ser. No. 635,256. Harry S. Dearling, doing business as Dearling Associates, New York, N. Y. Filed Sept. 15, 1952.

TRIX STIX

For Toy Made of Interlocking Lengths of Flexible and Resilient Material.
Claims use since Mar. 3, 1952.

Ser. No. 643,370. Putt-Master, Phoenix, Ariz. Filed Mar. 9, 1953.

CRO-K-PUTTER

Applicant disclaims the word "Putter" apart from the mark as shown.
For Golf Putters.
Claims use since Jan. 12, 1953.

Ser. No. 643,502. Norman Parke Company, Chicopee, Mass. Filed Mar. 11, 1953.

The Flying Cloud

For Bowling Balls.
Claims use since June 9, 1952.

Ser. No. 643,594. Jaymar Specialty Company, Brooklyn, N. Y. Filed Mar. 13, 1953.

SOLAR SCOUT

For Jigsaw Puzzle Game.
Claims use since Dec. 12, 1952.

Ser. No. 650,701. G., H. & E. Freydberg, Inc., New York, N. Y. Filed July 23, 1953.

Mary Jane

The name shown on the drawing is fictitious and fanciful. Applicant claims ownership of Registration No. 444,763.
For Doll's Dresses.
Claims use since October 1947.

Ser. No. 650,850. Valentine Dolls, Inc., New York, N. Y. Filed July 24, 1953.

MONA LISA

For Dolls.
Claims use since on or about July 1, 1952.

Ser. No. 655,232. Boon-Zee, Inc., New York, N. Y. Filed Oct. 23, 1953.

BOON-ZEE

For Toys—Namely, Whirling Toys, Bandelore Toy Spinning Tops, Gravity Operated Toys, and Toys Wherein a Movable Element Is Attached to a Manually Operable Body by an Elastic.
Claims use since Mar. 6, 1953.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 586,954. Carter Carburetor Corporation, St. Louis, Mo. Filed Oct. 28, 1949.

Applicant claims ownership of Registration No. 351,305.
For Carburetors, Fuel Pumps, and Parts Thereof for Internal Combustion Engines and Special Tools for Said Carburetors and Fuel Pumps—Namely, Wrenches, Screw Drivers, Drills, Plunger Loading Sleeves, Bending Tools, Rivet Plug Extractors, Tool Handles, Split Ring Inserters and Removers, Holders and Drivers for Inserted Parts, Easy Outs and Other Part Extractors, Fuel Pump Lever Gripping Tools and Clamps, and Tool Boxes Containing Sets of the Above Tools.
Claims use since Jan. 11, 1930.

Ser. No. 605,934. Universal Oil Products Company, Chicago, Ill. Filed Nov. 4, 1950.

PLATFORMING

For Apparatus in the Nature of a Plant for the Treatment of Hydrocarbons, Said Apparatus Comprising Heating Zone, Reaction Zone, Fractionator, Distillate Condenser and Receiver Receptacle, Fitted With Pumps Suitable Fittings, Valves and Conduits Therefor, in Which Apparatus Is Used a Solid Catalyst Containing a Member of the Platinum Group.
Claims use since Aug. 29, 1947.

Ser. No. 618,959. Essick Manufacturing Company, Los Angeles, Calif. Filed Sept. 19, 1951.

JUNIOR

For Mixers—Namely, Plaster Mixers and Mortar Mixers.
Claims use since on or about Aug. 20, 1951.

Ser. No. 620,601. Johnston Pump Company, Pasadena, Calif. Filed May 12, 1952. (Sec. 2f.)

JOHNSTON

For Well Pumps.
Claims use since March 1947.

Ser. No. 623,829. Farmers Tool and Equipment Company, Emeryville, Calif. Filed Jan. 21, 1952.

FARMTEC HARROPLOW

"Harroplow" and the representation of the goods is disclaimed apart from the mark as shown.
For Single Disc Harrows, Double Disc Harrows, Covercrop Disc Harrows, and Rotary Driven Disc Harrows.
Claims use since Dec. 3, 1949.

Ser. No. 624,394. Complete Machinery & Equipment Company, Inc., Long Island City, N. Y. Filed Feb. 1, 1952. (Sec. 2f.)

COMPLETE

For Well Point Systems, Consisting of Well Point Header Units, and Pipe Assemblies Interconnecting the Same.
Claims use since June 1935.

Ser. No. 624,551. Edward O. Kraepelin, Miami, Fla. Filed Feb. 5, 1952.

EOK HAIRCUTTER

The word "Haircutter" is disclaimed apart from the mark as shown.
For Specially Designed Haircutters and Scissors.
Claims use since Dec. 15, 1951.

Ser. No. 633,235. F. Koeller & Co., Solingen-Ohligs, Germany. Filed Apr. 21, 1952.

ELFENBEIN MARKE

The verbiage portion of the mark translated into the English language means "Ivory Mark." The word "Marke" is disclaimed apart from the mark as shown. Applicant claims ownership of German Registration No. 210,212, dated Mar. 21, 1914.
For Cutlery—Namely, Knives, More Particularly Pocket Knives, Razors, Bread Knives, Butchers' Knives, Table Knives; Forks; Safety Razors; Razor Blades; Cigar-Cutters; Shears; Scissors, More Particularly Scissors for Cutting the Hair, Scissors for Cutting Linen, Pocket Scissors, Button-Hole Scissors, Embroidery Scissors, Paper Scissors, Tailors' Scissors; Corkscrewers; Clippers; Steel Blades for Table Knives; Steel Prongs for Table Forks.
Claims use since Aug. 9, 1949, in commerce between Germany and the United States.

Ser. No. 633,276. Guy L. Stevens, doing business as Groove-Rite Tool Co., Farmington, Mich. Filed July 30, 1952.

LUBRI-KNURL

For Piston Knurling Machines.
Claims use since Mar. 6, 1952.

Ser. No. 635,941. Taylor Implement Manufacturing Company, Athens, Tenn. Filed Sept. 29, 1952. (Sec. 2f.)

Taylor-Way

For Disc Plows, Disc Harrows, Disc Tiller Plows, and Subsoiler Plows.
Claims use since Aug. 22, 1947.

Ser. No. 639,546. Amexa Corporation, Brooklyn, N. Y. Filed Dec. 16, 1952.



The terms "Genuine Seal Test" are hereby disclaimed apart from the mark as shown.
For Automobile Parts—Namely, Engines, Jacks.
Claims use since Nov. 14, 1951.

Ser. No. 640,274. Ideal Stencil Machine Company, Belleville, Ill. Filed Jan. 2, 1953. (Sec. 2f.)

IDEAL CLIP-A-TAPE

The word "Tape" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 117,327.
For Tape Dispensing Machines.
Claims use since on or about July 15, 1926.

Ser. No. 641,717. Dempster Mill Manufacturing Company, Beatrice, Nebr. Filed Feb. 4, 1953.

SUBMASTER

For Deep Well Pumps.
Claims use since on or about Jan. 6, 1953.

Ser. No. 642,389. The Burch Corporation, Crestline, Ohio. Filed Feb. 18, 1953. (Sec. 2f.)

ROSS

For Snow Plows.
Claims use since on or about Aug. 21, 1930.

Ser. No. 645,469. Diamond Saw Works, Inc., Buffalo, N. Y. Filed Apr. 17, 1953.

REPEATER

For Metal Cutting Saw Blades.
Claims use since July 20, 1948.

Ser. No. 646,989. Central States Distributors, Inc., Oak Park, Ill., assignor to Central States Maintenance, Inc., Oak Park, Ill., a corporation of Illinois. Filed May 14, 1953.

WALL-O-MATIC

Disclaimer is made of the word "Wall" apart from the mark as shown.
For Wall and Ceiling Cleaning Apparatus, Comprising Tanks for Holding the Cleaning Fluid, a Hand Pump, and a Hose Connecting the Tanks With a Wet Trowel Assembly, the Latter Being Equipped With a Manually Operated Valve for Controlling the Flow of Cleaning Fluid to the Wet Trowel.
Claims use since Mar. 24, 1953.

Ser. No. 649,754. Bird Machine Company, South Walpole, Mass. Filed June 23, 1953. (Sec. 2f.)

HI-ANGLE

For Doctors for Calenders, Driers, Press Rolls, and the Like.
Claims use since Sept. 1, 1931.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 637,021. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Filed Oct. 22, 1952. (Sec. 2f.)

Westinghouse

Applicant claims ownership of Registrations Nos. 103,016, 103,017, and others.
For Electric Ironing Machines and Parts Therefor; Laundry Washing Machines and Parts Therefor; and Clothes Dryers and Parts Therefor.
Claims use since during or about 1931.

CLASS 25

LOCKS AND SAFES

Ser. No. 643,849. The Mosler Safe Company, Hamilton, Ohio. Filed Mar. 18, 1953. (Sec. 2f with respect to the word "Mosler.")



Applicant claims ownership of Registrations Nos. 222,533 and 352,592.
For Portable and Built-in Safes and Vaults, Safe Doors, Vault Doors and Gates, Safety Cabinets, and Lock-Equipped Chests and Boxes for Money and Securities.
Claims use since on or about Jan. 2, 1950; and since Jan. 1, 1874, as to "Mosler."

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 548,859. Sears, Roebuck and Co., Chicago, Ill. Filed Feb. 5, 1948. (Sec. 2f.)

J.C.Higgins

The mark is the name of a living individual who has given his consent to its use and registration.
For Bicycle Speedometers.
Claims use since Jan. 15, 1947.

Ser. No. 593,755. Standard Motor Products, Inc., Long Island City, N. Y. Filed Mar. 10, 1950. (Sec. 2f as to "Hygrade.")



Applicant claims ownership of Registration No. 328,031.
For Speedometer Parts—Namely, Speedometer Cables, Speedometer Cable and Casing Assemblies, and Speedometer Tips and Ferrules; and Reconditioning Parts Kits for Speedometers Sold as a Unit and Containing Some or All of Said Parts.
Claims use since 1933 on the term "Hygrade"; and since February 1949 on the mark as shown.

Ser. No. 625,982. Holophane Company, Inc., New York, N. Y. Filed Mar. 5, 1952.

PRISMORAMA

For Light Control Demonstration Kits, Comprising Lamp Bulb, Slotted Cylinder for Producing Spokes of Light and Prismatic and Non-Prismatic Light Controlling Elements for Demonstrating Light Distribution.
Claims use since Feb. 7, 1952.

Ser. No. 628,599. Modern Optics, Incorporated, Houston, Tex. Filed Apr. 18, 1952. (Sec. 2f.)

MODERN

Applicant claims ownership of Registration No. 508,084.
For Ophthalmic Lens Blanks.
Claims use since Oct. 13, 1945.

Ser. No. 643,617. Otto Seligmann, New York, N. Y. Filed Mar. 13, 1953.

FOTORAMA

For Photographic Cameras and Light-Sensitive Photographic Paper and Photographic Film.
Claims use since Mar. 2, 1953.

Ser. No. 648,313. Librascope, Incorporated, Glendale, Calif. Filed June 5, 1953.

"diqiloq"

For Integrators, i. e., Precision Integrating Mechanisms for Totalizing, Rate Determination, and Differential Analyzing.
Claims use since May 7, 1953.

Ser. No. 648,449. Weksler Thermometer Corporation, New York, N. Y. Filed June 8, 1953. (Sec. 2f.)

WEKSLER

For Temperature, Pressure and Humidity Indicating, Recording, and Regulating Instruments.
Claims use since on or about November 1930.

Ser. No. 648,451. Weksler Thermometer Corporation, New York, N. Y. Filed June 8, 1953. (Sec. 2f.)



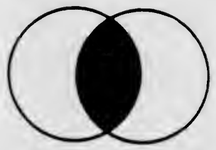
For Temperature, Pressure and Humidity Indicating, Recording, and Regulating Instruments.
Claims use since on or about November 1930.

Ser. No. 648,880. Polaroid Corporation, Cambridge, Mass. Filed June 16, 1953.

POLAROID

Applicant claims ownership of Registrations Nos. 337,404, 388,047, and others.
For X-Ray Film Cassettes and X-Ray Film Processing Apparatus.
Claims use since Nov. 26, 1951.

Ser. No. 648,881. Polaroid Corporation, Cambridge, Mass. Filed June 16, 1953.



Applicant claims ownership of Registrations Nos. 343,337, 398,918, and others.
For X-Ray Film Cassettes and X-Ray Film Processing Apparatus.
Claims use since Nov. 26, 1951.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 634,694. L'Horlogerie de Savoie "Lorsa," Annemasse, France. Filed Aug. 30, 1952.



Priority is claimed under Sec. 44(d). French application filed June 5, 1952; Registration No. 418.
For Watches.

Ser. No. 648,126. Orlogin Watch Company, Inc., New York, N. Y. Filed June 2, 1953.

ORLOGIN

For Watches, Clocks, and Parts Thereof.
Claims use since May 5, 1953.

Ser. No. 648,235. Lawrence M. Cohen, Greensboro, N. C. Filed June 4, 1953.

RUMONT

For Clocks and Watches.
Claims use since Mar. 3, 1953.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 632,226. Schulster & Goldberg, New York, N. Y. Filed July 7, 1952.



Applicant disclaims the word "Jewelry."
For Jewelry and Precious-Metalware—Namely, Gentlemen's and Ladies' Cuff Links, Tie Pins, Tie Clasps, Tie Bars, Finger Rings, Money Clips, Key Chains, Brooches, Lavaliers, Necklaces, Chains, Chokers, Bracelets, Combs, Ear Rings, Perfume Containers, Ankle Bracelets, Charms.
Claims use since May 1, 1952.

Ser. No. 636,224. Eichberg & Co., Inc., New York, N. Y. Filed Oct. 6, 1952.

THE ROYAL FAMILY OF JEWELS

The word "Jewels" is disclaimed apart from the mark shown on the drawing.
For Precious Stones.
Claims use since Jan. 25, 1952.

Ser. No. 641,693. Renee Novelties, Inc., Woodmere, N. Y. Filed Feb. 3, 1953.

Renée

For Costume Jewelry — Namely, Bracelets, Earrings, Pins, Brooches, and Clips.
Claims use since December 1934.

Ser. No. 644,349. Fred Seltzer Co., Chicago, Ill. Original filed, act of 1946, Supplemental Register, Mar. 27, 1953; amended to application, Principal Register, Sept. 28, 1953.

Fantasy

For Gold Rings.
Claims use since May 1, 1951.

Ser. No. 647,056. J. R. Wood & Sons, Inc., New York, N. Y. Filed May 14, 1953. (Sec. 2f.)

Artcarved

Applicant claims ownership of Registrations Nos. 393,358 and 518,826.
For Finger Rings.
Claims use since Apr. 2, 1941.

Ser. No. 647,501. Kaspar & Esh, Inc., New York, N. Y. Filed May 22, 1953.

Add-a-Link

No claim is made to the word "Link" apart from the mark as shown.
For Diamond Bracelets and Diamond Watch Bracelets and Parts Thereof (Not Including Watches).
Claims use since Jan. 23, 1953.

Ser. No. 648,684. Paul Morris, New York, N. Y. Filed June 12, 1953.



No claim is made to the word "Pearls" and to the representation of the pearl necklace, apart from the mark shown on the drawing.
For Costume Jewelry—Namely, Pearl Necklaces, Earrings, and Bracelets.
Claims use since November 1951.

Ser. No. 648,833. Aurel Jewelry Mfg. Co., New York, N. Y. Filed June 16, 1953. (Sec. 2f.)



Applicant claims ownership of Registration No. 434,520.
For Wrist Watch Bands and Bracelets Made of Gold.
Claims use since May 31, 1946.

Ser. No. 649,930. B. H. Dean Company, Inc., Kansas City, Mo. Filed July 7, 1953.

QUEEN-LOQ

No claim is made to the phonetic equivalent of the word "Lock" apart from the mark as shown. Applicant claims ownership of Registration No. 563,373.
For Finger Rings and Parts Thereof.
Claims use since Feb. 13, 1952.

Ser. No. 650,849. U. S. Diamond Ring Co., Inc., New York, N. Y. Filed July 24, 1953.

ADD-A-DIAMOND

No claim is made to the word "Diamond" apart from the mark as shown.
For Bracelets.
Claims use since Feb. 1, 1953.

CLASS 29

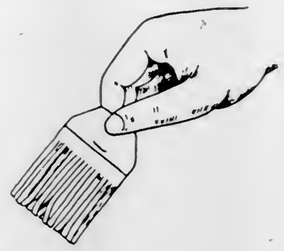
BROOMS, BRUSHES, AND DUSTERS

Ser. No. 647,106. Smith and Smith Company, Pittsburgh, Pa. Filed May 15, 1953.



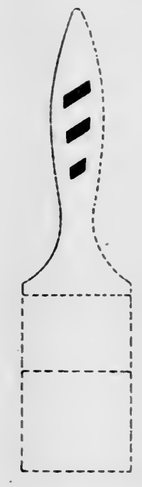
For Tooth Brush Having a Compartment for Holding a Dentifrice Attached to the Handle and Adapted To Be Folded and Inserted in a Case.
Claims use since Feb. 24, 1953.

Ser. No. 648,711. Peter Andrew Vecchiolla, doing business as Peters Sanitary Paper Duster Company, West Los Angeles, Calif. Filed June 12, 1953.



The representation of the goods shown on the drawing is disclaimed apart from the mark as shown.
For Barber Dusters.
Claims use since on or about Oct. 24, 1938.

Ser. No. 648,808. Star Brush Manufacturing Co., Inc., Boston, Mass. Filed June 15, 1953.



The drawing is lined for red. No claim is made to the representation of the brush handle or of the brush itself.
For Brushes for Painting, Varnishing, or Applying Liquids.
Claims use since on or about Nov. 15, 1952.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 631,659. Filtrine Manufacturing Company, Brooklyn, N. Y. Filed June 24, 1952.

WAL-PAK

For Water Cooler.
Claims use since Dec. 1, 1950.

Ser. No. 637,020. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Filed Oct. 22, 1952. (Sec. 2f.)

Westinghouse

Applicant claims ownership of Registrations Nos. 103,016, 103,017, and others.

For Electrical Commercial Refrigerators and Parts Therefor; Electric Household Refrigerators and Parts Therefor; Electric Water, Beverage, and Bottle Coolers and Parts Therefor; Electronic Precipitators; Electrostatic Filters; Electric Milk Coolers and Parts Therefor; Electric Home-Freezers and Parts Therefor; Domestic and Commercial Refrigeration Units and Parts Therefor; Evaporative Condensers for Air Conditioning Units and Electric Refrigerator Merchandise Vending Machines and Parts Therefor.

Claims use since during or about 1930.

Ser. No. 644,085. Winslow Engineering Co., Oakland, Calif. Filed Mar. 23, 1953. (Sec. 2f.)

WINSLOW

Applicant claims ownership of Registration No. 389,844.

For Oil Filters, Sometimes Known in the Trade as Oil Purifiers or Oil Conditioners, and Parts Thereof and Filter Cartridges Therefor; and Air Filters and Parts Thereof.

Claims use since 1923.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 603,530. Hinzmann and Waldmann, Inc., New York and Brooklyn, N. Y. Filed Sept. 14, 1950.

Dress-atory

For Bathroom Cabinets.
Claims use since July 20, 1950.

Ser. No. 632,953. P. B. R. Manufacturing Co., Philadelphia, Pa. Filed July 23, 1952.



No claim is made in this application to the representation of a table or to the word "Tabl," apart from the mark as shown.

For Collapsible Tables.
Claims use since Mar. 28, 1952.

Ser. No. 639,759. Lasser Brothers Inc., Rochester, N. Y. Filed Dec. 19, 1952.



For Venetian Blinds.
Claims use since Oct. 6, 1952.

Ser. No. 648,648. Bunny Bear, Inc., Everett, Mass. Filed June 12, 1953.

GLIDE-RIDE

For Infant's Chair.
Claims use since Jan. 1, 1950.

Ser. No. 648,816. Tyee Camp Equipment, Everett, Wash. Filed June 15, 1953.

TYEE

For Camp Cots.
Claims use since Apr. 20, 1953.

Ser. No. 649,030. Tell City Chair Co., Tell City, Ind. Filed June 18, 1953. (Sec. 2f.)

TELL CITY

For Chairs.
Claims use since 1921.

Ser. No. 649,385. Quality Mattress Company, Rochester, N. Y. Filed June 25, 1953.

Spine-O-Pedic

For Mattresses.
Claims use since Feb. 20, 1953.

Ser. No. 649,901. Queen Manufacturing Co., Inc., Chicago, Ill. Filed July 6, 1953.

Reach it

For Utility Stools.
Claims use since May 1952.

Ser. No. 650,420. The L. Buchman Co., Inc., New York and Brooklyn, N. Y. Filed July 17, 1953.

MAJESTIC

For Combined Down and Feather Pillows.
Claims use since Jan. 23, 1932.

Ser. No. 650,421. The L. Buchman Co., Inc., New York and Brooklyn, N. Y. Filed July 17, 1953.

SNOWBIRD

For Combined Down and Feather Pillows.
Claims use since Jan. 21, 1932.

Ser. No. 650,574. Edward P. Bottomley, Burlington, Vt. Filed July 21, 1953.

"Jimmy Cricket"

For Foot Stools.
Claims use since Sept. 7, 1952.

Ser. No. 650,606. Simmons Company, New York, N. Y. Filed July 21, 1953.

Pictura

For Bedroom Furniture—Namely, Beds, Chairs, Dressers, Vanities, Grip Stands, and Night Tables.
Claims use since June 11, 1953.

CLASS 33

GLASSWARE

Ser. No. 647,390. Geo. Borgfeldt Corporation, New York, N. Y. Filed May 21, 1953.

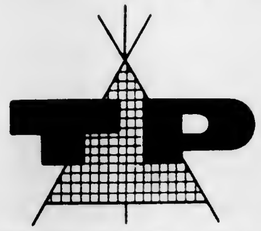


Applicant claims ownership of Registration No. 354,070.

For Glassware for Domestic and Household Use—Namely, Dinner and Other Table Glassware; Fancy Goods Made of Glass—Namely, Jugs, Decanters, Console Sets Consisting of a Center Piece, Such as a Bowl or a Dish, and Two Side Pieces, for Instance Vases, Vanity Sets, Salad Sets, Vases and Ornamental Boxes or Receptacles for General Use.

Claims use since Apr. 14, 1953.

Ser. No. 647,895. The Toledo Plate & Window Glass Company, Toledo, Ohio. Filed May 28, 1953.



For Flat Glass Comprising Plate Glass, Sheet Glass, Rolled Glass, and Glass Silvered for Mirrors.
Claims use since May 7, 1953.

Ser. No. 649,279. Blue Ridge Glass Corporation, Kingsport, Tenn. Filed June 24, 1953.

SATINOL

Applicant claims ownership of Registrations Nos. 306,058 and 390,397.

For Glass in Sheet Form.
Claims use since Apr. 8, 1932.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 618,238. Luwa A. G., Zurich, Switzerland. Filed Aug. 30, 1951.

LUWA

Priority under Sec. 44(d). Swiss application filed on June 26, 1951, Reg. No. 138,419, dated June 26, 1951.

For Exhaust Fans; Units Comprising a Supply and Return Air Duct and an Exhaust Fan for the Draft-Free Removal of Room Air; Units Comprising a Supply and Return Air Duct, an Exhaust Fan for the Draft-Free Removal of Room Air, and an Air Heater; Units Comprising a Supply and Return Air Duct, an Exhaust Fan for the Draft-Free Removal of Room Air, an Air Heater, and an Air Cooler; Units Comprising a Supply and Return Air Duct, a Fan for the Draft-Free Removal of Room Air, an Air Heater, and an Air Filter; Units Comprising a Supply and Return Air Duct, a Fan for the Draft-Free Removal of Air, an Air Heater, an Air Cooler, and an Air Filter; Air-Humidifiers; Air-DeHumidifiers; Air-Conditioning Units; Axial and Centrifugal Ventilators; Thin Layer Evaporators; Spray-Driers.

Ser. No. 644,336. Motor Wheel Corporation, Lansing, Mich. Filed Mar. 27, 1953.

DUO-THERM

Applicant claims ownership of Registrations Nos. 425,512 and 544,633.

For Incinerator.
Claims use since Jan. 12, 1953.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 649,004. Leeth Brothers, Washington, D. C. Filed June 18, 1953.

"RUFF SHOD"

For Pneumatic Vehicle Tires.
Claims use since Sept. 16, 1952.

Ser. No. 651,694. Chester Plastic Products Corp., Chester, N. Y., assignor to Supreme Wire & Cable Inc., Chester, N. Y. Filed Aug. 12, 1953.

DUROFLOW

For Garden Hose.
Claims use since Apr. 2, 1953.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 645,050. Mercury Record Corporation, Chicago, Ill. Filed Apr. 10, 1953.

PLAYCRAFT

For Grooved Phonograph Records.
Claims use since Mar. 25, 1953.

Ser. No. 645,377. Audiosphere, Inc., Newark, N. J. Filed Apr. 16, 1953.

AUDIO COLLECTOR

For Grooved Phonograph Records.
Claims use since Jan. 1, 1953.

Ser. No. 645,625. The Baldwin Company, Cincinnati, Ohio. Filed Apr. 21, 1953.

Orga-sonic

Applicant claims ownership of Registration No. 336,329.
For Electric Musical Instruments—Namely, Electric Organs.
Claims use since Feb. 26, 1953.

CLASS 37

PAPER AND STATIONERY

Ser. No. 635,677. Better Packages, Incorporated, Shelton, Conn. Filed Sept. 24, 1952.

EXPRESS

For Non-Mechanical Envelope, Label, and Gummed Tape Moisteners, in Which the Material To Be Moistened Is Manually Pushed or Pulled Through the Moistener.
Claims use since on or about the year 1933.

Ser. No. 641,928. International Paper Company, New York, N. Y. Filed Feb. 9, 1953. (Sec. 2f.)

PUBLICATION GLOSS

The word "Gloss" is disclaimed apart from the mark as shown.
For Coated Printing Paper.
Claims use since Jan. 17, 1948.

Ser. No. 643,219. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Filed Mar. 6, 1953.



No claim is made to the wording "For Home for Country and for God" and "Auxiliary," apart from the mark as shown. The drawing is lined for shading purposes.
Applicant claims ownership of Registrations Nos. 528,273, 557,627, and others.
For Desk Sets, Pencils, Transparent Protecting Envelopes for Membership Cards and Fountain Pens.
Claims use since Oct. 24, 1947.

Ser. No. 649,730. Royal Lace Paper Works, Inc., Brooklyn, N. Y. Filed July 2, 1953.

Royalmat

For Table Place Mats of Paper.
Claims use since June 22, 1953.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 641,558. Hermann R. Maier, Hope, N. J. Filed Jan. 30, 1953.

APPLICAL

For Plastic Pictorial Illustrations or Printed Cut-Outs for Decorative Purposes for Different Occasions or Seasons of the Year.
Claims use since Feb. 1, 1952.

Ser. No. 645,523. James O. Murdock, Jr., Palm Beach, Fla. Filed Apr. 17, 1953.

WONDER WIRE by THE SQUIRE

For Title of a Newspaper Column.
Claims use since Dec. 8, 1952.

Ser. No. 645,845. Tribune Company, sometimes identified merely as The Chicago Daily Tribune or Chicago Sunday Tribune, Chicago, Ill. Filed Apr. 23, 1953.

Today with Women

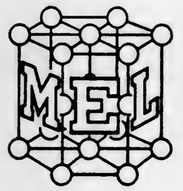
Applicant claims ownership of Registration No. 405,506.
For Title for a Newspaper Section.
Claims use since June 19, 1943.

Ser. No. 646,112. Mary Kavanaugh Cranmore, doing business as Mealmaster Recipe File and Menu Service, Chicago, Ill. Filed Apr. 29, 1953.

MEALMASTER

For Printed Recipe Cards in File Box.
Claims use since Apr. 24, 1951.

Ser. No. 646,412. Magnesium Elektron Limited, Clifton Junction, near Manchester, England. Filed May 4, 1953.



Priority under Sec. 44(d). British application No. 714,824 filed Feb. 12, 1953. Registration No. B 714,824 Jl. 3911.
For Books, Leaflets, and Pamphlets, Describing the Mechanical and Physical Properties of Magnesium Alloys.
Claims use since Dec. 31, 1940; and since Dec. 31, 1940, in commerce between foreign nations and the United States.

Ser. No. 648,018. The Great Books Foundation, Chicago, Ill. Filed June 1, 1953.



Exclusive rights by this registration to the representation of the book, as a book, are disclaimed except with respect to the mark as a whole.
For Books and Reprints of Books and Other Writings.
Claims use since Sept. 9, 1952.

Ser. No. 648,256. The Lee Oil and Natural Gas Company, Baltimore, Md. Filed June 4, 1953.

LONGCOLOGS

For Printed Polarization Charts for Use in Connection With Geophysical Operations.
Claims use since June 30, 1951.

Ser. No. 648,828. William D. Allen, New York, N. Y. Filed June 16, 1953.

WORLD IN BRIEF

For Periodical Publication and News Clip Sheet.
Claims use since December 1932.

Ser. No. 650,568. Agency Publishing Co., New York, N. Y. Filed July 21, 1953.

IDEAS TOO GOOD TO KEEP

For Periodical Publication.
Claims use since Jan. 16, 1953.

Ser. No. 650,775. California Institute of Social Welfare, Los Angeles, Calif. Filed July 24, 1953.

National Welfare Advocate

For Monthly Publication Containing Items of General Interest and Items of Particular Interest to Elderly People.
Claims use since on or about March 1942.

CLASS 39

CLOTHING

Ser. No. 545,644. Rand Rubber Company, Inc., Brooklyn, N. Y. Filed Dec. 29, 1947.

NEW LOOK

For Baby Pants.
Claims use since Dec. 1, 1947.

Ser. No. 548,860. Sears, Roebuck and Co., Chicago, Ill. Filed Feb. 5, 1948. (Sec. 2f.)

J Higgins

The mark is the name of a living individual whose consent to its use and registration has been given.
For Sports Clothing for Men, Women, Boys and Girls, Namely: Group A—Basketball Shoes; Group B—Sweat Shirts and Pants; Group C—Tennis Shoes; Sweat Socks; Tennis Shorts; Sports Jackets and Hats; Rainshirts; Hunting Socks; Boots and Wading Boots (Made of Leather, Rubber and Combinations Thereof); Hunting Coats, Breeches, Vests, Pants and Caps; T Shirts; Fishermen's Jackets, Pants, and Vests; Group D—Riding Shirts, Pants, Jackets, Breeches, Jodhpurs, and Women's Skirts; Group E—Ski Pants, Socks, Mittens, Jackets, and Caps; Parkas.
Claims use since 1929.

Ser. No. 589,691. Wilker Bros. Co., New York, N. Y. Filed Dec. 20, 1949.

WILKAJAMA

For Men's and Boys' Pajamas.
Claims use since Nov. 5, 1949.

Ser. No. 609,354. B. & B. Shoe Company, Chicago, Ill. Filed Jan. 29, 1951.

Jumpers

For Shoes and Slippers for Children.
Claims use since Dec. 14, 1950.

Ser. No. 610,973. House of Worsted-Tex, Inc., Baltimore, Md., and Philadelphia, Pa. Filed Mar. 7, 1951.

Knit-tex

The applicant disclaims the word "Knit" alone and apart from the mark as shown. Applicant claims ownership of Registrations Nos. 102,961, 187,236, and others.
For Men's and Young Men's Suits, Coats, Vests, Trousers, Topcoats, and Overcoats.
Claims use since Oct. 1, 1914.

Ser. No. 625,657. Certified Fabrics Co., New York, N. Y., now by change of name Certified Creations Company. Filed Feb. 28, 1952.

Skyhigh
They're Heavenly

For Scuffies and Slippers for Men, Women, and Children.
Claims use since Nov. 7, 1951.

Ser. No. 628,446. Ware Knitters, Inc., Ware, Mass. Filed Apr. 21, 1952.

Trice

For Outershirts and Pajamas for Men, Women, and Children.
Claims use since Apr. 7, 1952.

Ser. No. 632,893. Midcontinent Chemical Company, Grove City, Ohio. Filed July 22, 1952.

MIDCO

For Heels of Synthetic and Natural Rubber Composition.
Claims use since June 1, 1952.

Ser. No. 633,576. Freeman Shoe Corporation, Beloit, Wis. Filed Aug. 7, 1952. (Sec. 2f.)

FREEMAN

Applicant claims ownership of Registrations Nos. 296,637 and 363,971.
For Men's Shoes Constructed of Leather, Rubber, Fabric, or Combinations Thereof.
Claims use since Aug. 1, 1921.

Ser. No. 634,382. Prentis Clothes Corp., New York, N. Y. Filed Aug. 23, 1952.

YOUTHTOWN

For Boys' and Girls' Outerwear—Namely, Coats, Suits, Jackets, Slacks, Skirts, Blouses, Dresses, Sweaters, Play Suits, Trousers, Cardigans, Jumpers, Sport and Dress Shirts, Hosiery, Belts, Hats, Caps, Neckties, Bathing Suits, Trunks, Beach Robes, Gloves of Leather or Fabric, and Sweat Shirts.
Claims use since July 30, 1951.

Ser. No. 635,233. Phoenix, Inc., New York, N. Y. Filed Sept. 13, 1952.

EXEC-U-LINE

Apart from the combination shown, the word "Line" is disclaimed.
For Men's and Boys' Coats, Suits, Trousers, Vests, Slacks, and Lounging Coats.
Claims use since Aug. 5, 1952.

Ser. No. 636,004. Delightform Foundations, Inc., Easton, Pa. Filed Oct. 1, 1952.

Perma-Shape

The word "Shape" is disclaimed apart from the mark as shown on the drawing.
For Brassières.
Claims use since Aug. 1, 1952.

Ser. No. 637,362. Cisco-California, Inc., Los Angeles, Calif. Filed Oct. 30, 1952.

OUTRIGGER

For Men's and Boys' Swimming Trunks.
Claims use since Sept. 21, 1950.

Ser. No. 637,875. The Manhattan Shirt Company, New York, N. Y. Filed Nov. 10, 1952.

RANDOM ROLL

No claim is made to the word "Roll" apart from the mark as shown.
For Men's Outer Shirts.
Claims use since Oct. 28, 1952.

Ser. No. 638,107. Shane Shoe Co. Inc., New York, N. Y. Filed Nov. 14, 1952. (Sec. 2f.)

ALBERT'S

For Men's, Women's, and Children's Shoes.
Claims use since Jan. 1, 1938.

Ser. No. 638,241. Salvatore Cangemi, Brooklyn, N. Y. Filed Nov. 18, 1952.

CANGEMI CO EDS

The word "Cangemi" is disclaimed apart from the mark shown on the drawing.
For Women's and Misses' Shoes Made of Leather, Fabric, Rubber, Plastic, and Combinations Thereof.
Claims use since July 8, 1952.

Ser. No. 638,242. Salvatore Cangemi, Brooklyn, N. Y. Filed Nov. 18, 1952.

CANGEMI DEBS

The word "Cangemi" is disclaimed apart from the mark shown on the drawing.
For Women's and Misses' Shoes Made of Leather, Fabric, Rubber, Plastic, and Combinations Thereof.
Claims use since July 8, 1952.

Ser. No. 638,353. Dodson-Fisher Company, St. Paul, Minn. Filed Nov. 20, 1952.

Glov-Ett
BY DODSON

The term "By Dodson" is disclaimed apart from the mark as shown.
For Men's, Women's, and Children's Shoes.
Claims use since Nov. 3, 1952, on the mark as shown; and since Mar. 1, 1950, as to "Glov-Ett."

Ser. No. 638,895. Bulluck Hosiery, Inc., New York, N. Y. Filed Dec. 3, 1952.

QUADS

For Children's Anklets, Misses' Anklets, Boys' Hosiery, and Men's Hosiery.
Claims use since Aug. 13, 1952.

Ser. No. 639,404. Avon Sole Company, Avon, Mass. Filed Dec. 13, 1952.

GUMSAR

No claim is made to the word "Gum" apart from the mark as shown.
For Shoe Soles.
Claims use since August 1940.

Ser. No. 639,967. Tory Hat Co. Inc., New York, N. Y. Filed Dec. 23, 1952.

Barlesoni

For Men's Hats.
Claims use since March 1951.

Ser. No. 640,271. L. Greif & Bro., Inc., Baltimore, Md. Filed Jan. 2, 1953.

Magicon

The drawing is lined for the color green.
For Men's Suits, Topcoats, Overcoats, Slacks, Sport Coats, and Jackets.
Claims use since Dec. 11, 1952.

Ser. No. 641,896. Avonshire Knitting Mills, Inc., Philadelphia, Pa. Filed Feb. 9, 1953.

CASHMIRACLE

For Women's Sweaters.
Claims use since Aug. 8, 1951.

Ser. No. 643,815. Jay Bucknell Inc., New York, N. Y. Filed Mar. 18, 1953. (Sec. 2f.)

Bucknell

Applicant claims ownership of Registration No. 421,926.
For Men's and Boys' Sport Shirts, Sport Jackets, and Slacks.
Claims use since January 1944.

Ser. No. 645,592. Reliance Manufacturing Company, Chicago, Ill. Filed Apr. 20, 1953.

WIND 'N WEATHER

For Jackets for Men and Boys and Women and Girls.
Claims use since Mar. 27, 1953.

Ser. No. 646,406. Lennards Limited, Bristol, England. Filed May 4, 1953.

"KIDDIE-PEDS"

Applicant claims ownership of British Registrations Nos. 430,641, dated Oct. 19, 1922, 470,875, dated June 25, 1926, and 709,524, dated Aug. 5, 1952.
For Boots, Shoes, Slippers, Sandals, Stockings, and Socks for the Use of Children.

Ser. No. 646,476. I. B. Kleinert Rubber Company, New York, N. Y. Filed May 5, 1953.

KD'S

For Diapers.
Claims use since Feb. 27, 1953.

Ser. No. 646,692. Stockton Manufacturing Company, Dallas, Tex. Filed May 8, 1953.

Stockton's ROYAL DIN-UM-ETTES

The word "Stockton's" is disclaimed separate and apart from the mark shown in the drawing.
For Misses', Juniors', and Children's Dresses, Suits, Jackets, Skirts, Blouses, Slacks, Outer Shorts, Bras, Vests, and Pedal-Pushers.
Claims use since Sept. 1, 1952.

Ser. No. 646,736. Cluett, Peabody & Co. Inc., Troy, N. Y. Filed May 11, 1953.

Arrow Nite

For Pajamas Intended for the Use of Men, Women, Boys, and Girls.
Claims use since Jan. 12, 1953.

Ser. No. 647,183. Gotham Knitting Mills, Inc., New York, N. Y. Filed May 18, 1953.

CARA-NYLE

For Knitted Sweaters, Dresses, Skirts, Blouses for Women, Misses, and Children.
Claims use since Mar. 3, 1953.

Ser. No. 647,446. Jack C. Ripps, doing business as Union Hosiery & Neckwear Co., Los Angeles, Calif. Filed May 21, 1953. (Sec. 2f.)

SPUN-RITE

For Men's, Women's, and Children's Hosiery and Anklets.
Claims use since Feb. 4, 1940.

Ser. No. 647,447. Jack C. Ripps, doing business as Union Hosiery & Neckwear Co., Los Angeles, Calif. Filed May 21, 1953.

UNIVOGUE

For Ladies' Hosiery.
Claims use since Apr. 16, 1940.

Ser. No. 647,512. Murphy, Brill and Sahner, Inc., New York, N. Y. Filed May 22, 1953.

Absorbo

Applicant claims ownership of Registration No. 315,268.
For Hosiery, for Men, Women, and Children.
Claims use since Aug. 1, 1933.

Ser. No. 647,699. Leeds Ltd. Coats, Inc., New York, N. Y. Original filed, act of 1946, Supplemental Register, May 26, 1953; amended to application, Principal Register, Oct. 21, 1953.

Debshire

Applicant claims ownership of Registration No. 320,277.
For Girls', Juniors', Misses', Little Women's and Ladies' Coats.
Claims use since Apr. 1, 1931.

Ser. No. 647,861. Martin Fabrics Corporation, New York, N. Y., now, by merger, Martin Fabrics Corporation. Filed May 28, 1953.

Neckie

For Neckties, Neckerchiefs, and Scarfs.
Claims use since Dec. 24, 1952.

Ser. No. 647,938. Leeds Ltd. Coats, Inc., New York, N. Y. Original filed, act of 1946, Supplemental Register, May 29, 1953; amended to application, Principal Register, Oct. 21, 1953.

Hi-Ho

Applicant claims ownership of Registration No. 299,921.
For Girls', Juniors', Misses', Little Women's, and Ladies' Coats.
Claims use since Feb. 1, 1931.

Ser. No. 648,154. Carolina Underwear Co. Inc., Thomasville, N. C. Filed June 3, 1953.

Tan Mor

For Play Shorts for Boys and Girls.
Claims use since June 1, 1953.

Ser. No. 648,245. Heyday Shoes, Inc., St. Louis, Mo. Filed June 4, 1953.

Official HOMEMAKER Shoes by HEYDAYS

The words "Official" and "Shoes" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 431,489.
For Shoes for Women.
Claims use since May 19, 1953.

Ser. No. 648,879. Peter Pan Foundations, Inc., New York, N. Y. Filed June 16, 1953.

Placationwear

For Brassières and Playsuits and Swimsuits for Women.
Claims use since Apr. 29, 1953.

Ser. No. 648,916. Leslie Fay Corp., New York, N. Y. Filed June 17, 1953.

Season Suiter

For Ladies' and Misses' Suits' Coats, and Jackets.
Claims use since Apr. 1, 1953.

Ser. No. 649,010. Joseph Mizrachi, New York, N. Y. Filed June 18, 1953.

BUSTER-JACKS

For Children's Leather and Fabric Shoes.
Claims use since Sept. 24, 1952.

Ser. No. 649,052. The Pioneer Rubber Company, Willard, Ohio. Filed June 18, 1953. (Sec. 2f.)

STANZOIL

Applicant claims ownership of Registration No. 366,968.
For Household and Industrial Gloves Made From Rubber or Rubber-Like Material, or From Fabric Coated With Rubber or Rubber-Like Material.
Claims use since on or about Jan. 28, 1938.

Ser. No. 649,147. The Goulder Company, New York, N. Y. Filed June 22, 1953.

Cashmerit

For Polo Shirts, Coats, and Sweaters of Cotton, Wool, and Other Fabrics for Men, Women, and Children.
Claims use since May 6, 1953.

Ser. No. 649,171. Modiste Shoes, Inc., New York, N. Y. Filed June 22, 1953.

hidden PLEASURE

For Ladies' and Misses' Shoes.
Claims use since Apr. 7, 1952.

Ser. No. 649,204. Youthcraft Manufacturing Company, Kansas City, Mo. Filed June 22, 1953.

Youthcraft

Applicant claims ownership of Registration No. 506,130.
For Ladies' and Misses' Suits and Coats.
Claims use since June 1, 1953.

Ser. No. 649,247. Perahia Bros. Co. Inc., New York, N. Y. Filed June 23, 1953.

Lethartone

For Ladies' Coats, Jackets, Toppers, Raincoats, and Suits.
Claims use since May 18, 1953.

Ser. No. 649,298. Gardiner Shoe Company, Inc., Gardiner, Maine. Filed June 24, 1953.

Gardmore SHOES

No claim is made to the word "Shoes" apart from the mark as shown.
For Men's Shoes Made Primarily of Leather.
Claims use since Dec. 13, 1951.

Ser. No. 649,427. Leeds Ltd. Coats, Inc., New York, N. Y. Filed June 26, 1953.

CASHRAM

For Girls', Juniors', Misses', Little Women's, and Ladies' Coats, Suits, and Jackets.
Claims use since Apr. 21, 1952.

Ser. No. 649,536. Plymouth Shoe Company, Middleboro, Mass. Filed June 29, 1953.



For Shoes for Men.
Claims use since Aug. 20, 1952.

Ser. No. 649,562. M. Beckerman & Sons, Inc., New York, N. Y. Filed June 30, 1953.

SHILLELAGHS

For Women's, Infants', Children's, and Boys' Shoes.
Claims use since June 19, 1953.

Ser. No. 650,275. Puritan Skirt & Dress Company, doing business as Forever Young, Waltham, Mass. Filed July 14, 1953.

WORLDARAMA

For Women's Dresses.
Claims use since June 26, 1953.

Ser. No. 650,316. Marlboro Shirt Company, Inc., Baltimore, Md. Filed July 15, 1953.

DUDEROY

For Dress, Negligee, and Sports Shirts; Slacks, Slack Suits, and Jackets for Men and Young Men.
Claims use since Apr. 15, 1953.

Ser. No. 651,369. Sylray Underwear Co., Orwigsburg, Pa. Filed Aug. 4, 1953.

Sylray

Applicant claims ownership of Registration No. 232,551.
For Knitted Underwear, in One, Two, and Three Piece Garments for Ladies, Misses, Children, and Men.
Claims use since Jan. 1, 1925.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 638,259. Samuel Hird & Sons, Inc., Garfield, N. J., and New York, N. Y. Filed Nov. 18, 1952.

VARIFLAKE

For Worsted Suitings in the Piece.
Claims use since on or about Aug. 11, 1952.

Ser. No. 638,483. Glenn & Thomas Company, New York, N. Y. Filed Nov. 22, 1952.



For Shower Curtains.
Claims use since Oct. 13, 1952.

Ser. No. 647,798. North American Commercial Corporation, New York, N. Y. Filed May 27, 1953.

Can Can

For Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Goods.
Claims use since Feb. 17, 1953.

Ser. No. 648,754. Hershwilk Textile Co., New York, N. Y. Filed June 15, 1953.

HER-WIL

For Textile Fabrics, of Cotton, Wool, Linen, and Synthetic Fibres, Used for Clothing and Wearing Apparel.
Claims use since Jan. 5, 1952.

Ser. No. 649,092. I. B. Kleinert Rubber Company, New York, N. Y. Filed June 19, 1953.

Chrom-Idescent

The word "Chrom" is disclaimed apart from the mark as shown on the drawing.
For Shower Curtains.
Claims use since May 21, 1953.

Ser. No. 649,875. Lawrence J. Fink, Inc., New York, N. Y. Filed July 6, 1953.

PANAGLARE

For Acetate Fabrics.
Claims use since June 5, 1953.

Ser. No. 649,984. Celanese Corporation of America, New York, N. Y. Filed July 8, 1953.

CELAPERM

Applicant claims ownership of Registrations Nos. 371,980 and 576,434.
For Textile Fabrics Made of Synthetic Fibers, Alone and in Admixture With Cotton, Wool, or Silk.
Claims use since Feb. 18, 1953.

Ser. No. 650,045. D. B. Fuller & Co. Inc., New York, N. Y. Filed July 9, 1953.

CAN-CAN

For Textile Fabrics in the Piece of Cotton, Rayon, Synthetic Fibres, and Combinations Thereof.
Claims use since Sept. 15, 1952.

Ser. No. 650,113. Anna Veronica Markiewicz, St. Louis, Mo. Filed July 10, 1953.

Tidy Triplets...

For Bathroom Sets, Consisting of Bath Mats, Toilet Seat Covers, and Mats To Fit Around Toilet Bases, All Made of Textile Material.
Claims use since June 1, 1953.

Ser. No. 650,114. Anna Veronica Markiewicz, St. Louis, Mo. Filed July 10, 1953.

Tidy Twins...

For Bathroom Sets, Consisting of Toilet Seat Covers and Mats To Fit Around Toilet Bases, Both Made of Textile Material.
Claims use since May 25, 1953.

CLASS 43

THREAD AND YARN

Ser. No. 648,992. The Gardiner Hall Jr. Company, South Willington, Conn. Filed June 18, 1953.

SPARTAN

For Cotton Sewing Threads.
Claims use since September 1932.

Ser. No. 650,295. American Enka Corporation, Enka, N. C. Filed July 15, 1953.

JETSPUN

For Rayon Yarns.
Claims use since July 3, 1953.

Ser. No. 650,403. W. Warren Thread Works, Inc., New York, N. Y. Filed July 16, 1953.

WARRLON

For Cotton, Silk, and Synthetic Sewing Threads.
Claims use since January 1953.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 637,018. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Filed Oct. 22, 1952. (Sec. 2f.)

Westinghouse

Applicant claims ownership of Registrations Nos. 103,016 and 103,017 and others.
For X-Ray Apparatus and Parts Therefor for Diagnostic, Therapeutical, and Surgical Uses, and Therapeutic Lamps.
Claims use since 1930.

Ser. No. 637,279. Johnson & Johnson, New Brunswick, N. J. Filed Oct. 28, 1952. (Sec. 2f.)

Johnson's

Applicant claims ownership of Registrations Nos. 88,088, 92,678, and others.
For Surgical and Hospital Masks and Caps.
Claims use since Dec. 31, 1919.

Ser. No. 637,616. Isidore A. Rothstein, New York, N. Y. Filed Nov. 4, 1952.

CHLOR-O-NAP

The word "Chlor" is disclaimed apart from the mark as shown in the drawing.
For Sanitary Napkins.
Claims use since Oct. 20, 1952.

Ser. No. 642,115. Sellstrom Manufacturing Company, Chicago, Ill. Filed Feb. 2, 1953. (Sec. 2f.)



Applicant claims ownership of Registration No. 419,957.
For Respirators.
Claims use since July 1944.

Ser. No. 652,131. Will Ross, Inc., Milwaukee, Wis. Filed Aug. 21, 1953.

SPADS

For Disposable Surgical Dressings, Consisting Essentially of a Gauze Covering Enclosing a Web of Cotton and a Center of Multiple Layers of Absorbent Cotton.
Claims use since July 31, 1953.

Ser. No. 652,199. Juliet H. Lampe, doing business as Texas Plastics, San Antonio, Tex. Filed Aug. 24, 1953.

DŌZzz

For Ear Plugs.
Claims use since June 15, 1952.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 604,098. V. & E. Kohnstamm, Inc., New York, N. Y. Filed Sept. 27, 1950.



The words "Trade," "Mark," and "1816-Chemist-1882" are hereby disclaimed. The portrait is a likeness of Victor Kohnstamm, the originator of applicant's business, now deceased.
For Flavoring Extracts Used in the Preparation of Non-Alcoholic Maltless Soft Drinks.
Claims use since July 1, 1940.

Ser. No. 647,974. Warwick Club Ginger Ale Co., Inc., West Warwick, R. I. Filed May 29, 1953.

QUIN - JIN

The word "Jin" is disclaimed apart from the mark as shown.
For Non-Alcoholic Maltless Soft Drink.
Claims use since Mar. 2, 1953.

Ser. No. 648,838. A. J. Canfield Co., Chicago, Ill. Filed June 16, 1953.

Dancing Carbonation

No claim is made to the exclusive use of the word "Carbonation" apart from the mark shown in the drawing.
For Carbonated Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks.
Claims use since Jan. 15, 1948.

Ser. No. 649,624. American Beverage Corporation, Brooklyn, N. Y. Filed July 1, 1953. (Sec. 2f.)

DR. BROWN'S

Dr. Brown, who is long deceased, was the originator of several formulae devised for applicant's predecessors in title, Schoneberger & Noble, Inc. Applicant claims ownership of Registrations Nos. 63,371, 64,299, and others.
For Flavoring Extracts Used in the Manufacture of Carbonated Nonalcoholic Maltless Beverages Sold as Soft Drinks, and Syrups Used by Operators of Soda Fountains and the Like in the Mixing of Soft Drink Beverages.
Claims use since prior to 1925.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 614,423. D. B. Berelson & Co., San Francisco, Calif. Filed May 28, 1951.

MESA GRANDE

The mark is a Spanish term meaning "large flat surface on top of mountain."
For Canned Pineapple.
Claims use since May 8, 1951.

Ser. No. 632,599. Bozeman Canning Company, Inc., Bozeman, Mont. Filed July 16, 1952. (Sec. 2f.)

Bozeman

Applicant claims ownership of Registration No. 209,826.
For Canned Peas.
Claims use since about May 1924.

Ser. No. 632,945. Lyons-Magnus, Inc., San Francisco, Calif. Filed July 23, 1952.

RADIANT MIX

The word "Mix" is disclaimed apart from the mark as shown in the drawing.
For a Condiment Composed of Prepared and Preserved Chopped Drained Zucca Melon, Orange and Grapefruit Peels, Cherries, Lemon and Citron Peels, and Pineapple, Sold in Bulk Containers to Commercial Bakeries and Small Packages to Housewives for Garnishing Foods Such as Cakes, Puddings, Candies, Fruit Cocktails, and Salads.
Claims use since Sept. 1, 1938.

Ser. No. 633,725. F. A. Gosse Company, Seattle, Wash. Filed Aug. 11, 1952.

Red Breast

Applicant claims ownership of Registration No. 297,949.
For Canned Salmon, Canned Crabmeat, and Canned Applesauce.
Claims use since 1919.

Ser. No. 635,161. Waples-Platter Company, Fort Worth, Tex. Filed Sept. 11, 1952.

WHITE SWAN



Applicant claims ownership of Registrations Nos. 64,407, 196,741, and others.
For Canned Goods—Namely, Beans, Chili-Con-Carne, Enchiladas, Tamales, Chili-Blend Powder, Hominy, and Spanish Rice, and Packaged Rice.
Claims use since 1885.

Ser. No. 636,079. Tom Huston Peanut Company, Columbus, Ga. Filed Oct. 2, 1952.

Tom's

Applicant claims ownership of Registrations Nos. 233,233 and 275,675.
For Candy, Salted and Unshelled Nuts, Crackers, Cookies, Potato Chips, Fried Pork Skins, Popped Corn, Pretzels, Peanut Butter Sandwiches, Malted Milk Sandwiches, and Pies.
Claims use since Apr. 7, 1925.

Ser. No. 638,192. Clemente Jacques y Cia, S. A., Mexico City, Mexico. Filed Nov. 17, 1952.

EL FENIX



"El Fenix" is a Spanish word meaning a fabulous or mythological bird. Applicant claims ownership of United States Registration No. 251,748.
For Piquant Chili Sauces, Canned Chilis.
Claims use since Apr. 4, 1911; and since Apr. 4, 1911, in commerce between foreign nations and the United States.

Ser. No. 640,165. Peanut Specialty Co., Chicago, Ill. Filed Dec. 30, 1952.

POKER CHIPS

For Candy Coated Chocolates in the Form of Circular, Convex-Faced Lozenges.
Claims use since Dec. 1, 1952.

Ser. No. 641,820. Wm. Wrigley Jr. Company, Chicago, Ill. Filed Feb. 5, 1953.

SPEARMINT

Without prejudice to any common law rights in the term, now or later owned by applicant, the word "Spearmint" is disclaimed apart from the mark as shown for purposes of this registration. Applicant claims ownership of Registration No. 64,816.
For Chewing Gum.
Claims use since 1907.

Ser. No. 642,601. Armour and Company, doing business under the trade style Drummond Packing Co., Chicago, Ill. Filed Feb. 24, 1953. (Sec. 2f as to "Drummond.")

ARBUTUS BRAND
D
DRUMMOND

The word "Brand" is disclaimed apart from the mark as shown.
For Ham, Bacon, Picnics, Frankfurters, Salami, Luncheon Sausage, Pork Sausage, Polish Sausage, Bologna, Braunschweiger, Frozen Veal Sweetbreads, Frozen Veal Brains, Frozen Veal Livers, Lard, and Corned Beef.
Claims use since August 1948 as to the mark shown, and since in 1865 as to the mark "Drummond."

Ser. No. 642,691. Rice Growers Association of California, Sacramento, Calif. Filed Feb. 24, 1953.



The drawing is lined to indicate red and blue. Applicant claims ownership of Registration No. 375,077.
For Rice.
Claims use since Oct. 31, 1952.

Ser. No. 651,267. Lucky Stores, Inc., San Leandro, Calif. Filed Aug. 3, 1953. (Sec. 2f.)

Lady Lee

Applicant claims ownership of Registrations Nos. 424,543 and 571,206.

For Canned Fruits, Canned Vegetables, Canned Berries, Canned Sauerkraut, Canned Beans with Pork, Canned Fruit Cocktail, Canned Citrus Fruit Juices, Canned Deciduous Fruit Juices Other Than Canned Grape Juice, Canned Vegetable Juices, Canned Apple Sauce, Canned Olives, Canned Fish, Canned Stewed Tomatoes, Canned Tomato Sauce, Canned Sliced Pimientos, Tomato Catsup, Dried Vegetables, Pearl Barley, Raw Popcorn, Mayonnaise Dressing, Vegetable Shortening, Salt, Iodized Salt, Peanut Butter, Apple Butter, Jams, Jellies, Marmalades, Fruit and Berry Preserves, Cottage Cheese, Ice Cream, Margarine, Canned Evaporated Milk, and Alimentary Paste Products—Namely, Macaroni, Spaghetti, Noodles, Alphabets, Vermicelli, Egg Twister, Rigatoni, Butterflies, and Sea Shells.

Claims use since August 1939.

Ser. No. 653,106. California Lima Bean Growers Association, Oxnard, Calif. Filed Sept. 14, 1953.

SEASIDE

Applicant claims ownership of Registrations Nos. 132,636 and 278,789.

For Canned Lima Beans and Dried Lima Beans, the Latter Packed in Cellophane and Burlap Bags.

Claims use since Sept. 23, 1919.

Ser. No. 653,356. D'Arrigo Bros. Co. of California, San Jose, Calif. Filed Sept. 18, 1953.



For Fresh Vegetables.

Claims use since Aug. 25, 1953.

Ser. No. 654,773. Topco Associates, Inc. (Cooperative), sometimes known as Topco Associates Inc., Chicago, Ill. Filed Nov. 2, 1953.

Food Club

The word "Food" is disclaimed apart from the mark as shown.

For Coffee, Tea, Vegetable Shortening, Salad Dressing, Sandwich Spread, Tartar Sauce; Canned and Frozen Fruits and Vegetables; Canned and Frozen Fruit Juices—Namely, Orange Juice, Grapefruit Juice, Apple Juice and a Blend of Orange Juice and Grapefruit Juice; Frozen Fish and Poultry; Dairy Products—Namely, Cheese, Butter, and Canned Evaporated Milk; and Miscellaneous Grocery Products—Namely, Mincemeat, Nuts (Unshelled and Shelled), Applesauce, Wheat Flour, Jellies and Jams, Dried Fruits, Bottled Apple Juice, Bottled Prune Juice, Gelatin, Spaghetti, Macaroni and Noodles, Olives, Peanut Butter, Rice, Olive Oil, Pickles, Catsup, and Table Syrup.

Claims use since Feb. 28, 1946.

Ser. No. 654,774. Topco Associates, Inc. (Cooperative), sometimes known as Topco Associates Inc., Chicago, Ill. Filed Nov. 2, 1953.



The drawing is lined for the color red. The word "Food" is disclaimed apart from the mark as shown.

For Coffee, Tea, Vegetable Shortening, Salad Dressing, Sandwich Spread, Tartar Sauce; Canned and Frozen Fruits and Vegetables; Canned and Frozen Fruit Juices—Namely, Orange Juice, Grapefruit Juice, Apple Juice, and a Blend of Orange Juice and Grapefruit Juice; Frozen Fish and Poultry; Dairy Products—Namely, Cheese, Butter, and Canned Evaporated Milk; and Miscellaneous Grocery Products—Namely, Mincemeat, Nuts (Unshelled and Shelled), Applesauce, Wheat Flour, Jellies and Jams, Dried Fruits, Bottled Apple Juice, Bottled Prune Juice, Gelatin, Spaghetti, Macaroni and Noodles, Olives, Peanut Butter, Rice, Olive Oil, Pickles, Catsup, and Table Syrup.

Claims use since Feb. 28, 1946.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 645,844. Terre Haute Brewing Company, Inc., Terre Haute, Ind. Filed Apr. 23, 1953.



Applicant makes no claim to the exclusive right to use a gold colored label, and makes no exclusive claim herein to any of the wording appearing in the drawing, apart from the mark as shown, except for the words "Champagne Velvet." The drawing is lined for gold and silver. Applicant claims ownership of Registrations Nos. 371,249 and 375,124.

For Beer.

Claims use since Mar. 27, 1953.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 650,537. Ste. Pierre Smirnoff, Fls., Inc., Hartford, Conn. Filed July 20, 1953.

SHUSTOV

For Vodka.

Claims use since July 1, 1953.

Ser. No. 650,731. Schenley Industries, Inc., New York, N. Y. Filed July 23, 1953.

FREEDOM

For Whiskey.

Claims use since June 16, 1953.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 623,251. George O. Jenkins Company, Bridgewater, Mass. Filed Jan. 5, 1952. (Sec. 2f.)

IVORY

For Fiberboard in Sheet Form for Use in Making Built-Up Heels for Shoes.

Claims use since 1932.

Ser. No. 639,525. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

For Blouse Trees in the Nature of a Clothes Hanger Made of Metal, Wood, Plastic, or Cardboard.

Claims use since 1932.

Ser. No. 650,432. Millesan Drews, Laguna Beach, Calif. Filed July 17, 1953.



For Figurines Molded With Clay and Plastic Materials.

Claims use since June 1953.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 636,433. Helena Rubinstein, Inc., New York, N. Y. Filed Oct. 9, 1952.

Blonde Beauty

The word "Blonde" is disclaimed apart from the mark as a whole.

For Hair Bleaching, Hair Dyeing, and Hair Tinting Preparations.

Claims use since May 8, 1952.

Ser. No. 637,529. The Pharma-Craft Corporation, New York, N. Y. Filed Sept. 30, 1952.

Heed

Applicant claims ownership of Registration No. 393,431.

For Deodorant and Non-Perspirant for Personal Use.

Claims use since August 1940.

Ser. No. 638,003. Lucien Lelong, Inc., Chicago, Ill., assignor to Coty, Inc., New York, N. Y., a corporation of Delaware. Filed Nov. 13, 1952.

Grande Affair

For Perfume.

Claims use since Oct. 14, 1952.

Ser. No. 638,205. Agatha May, Ltd., Passaic, N. J. Filed Nov. 17, 1952.



The words "Tan" and "Suntan Lotion" are disclaimed separate and apart from the mark as shown.

For Suntan Lotion.

Claims use since Mar. 12, 1952.

Ser. No. 642,288. The Lambert Company, doing business as John Hudson Moore Co. Division of The Lambert Company, Jersey City, N. J., and New York, N. Y. Filed Feb. 16, 1953.

WINTERPROOF

For Stick for Chapped Hands and Lips.
Claims use since Feb. 2, 1953.

Ser. No. 643,813. Elizabeth Arden Sales Corporation, New York, N. Y. Filed Mar. 18, 1953.

Marechal Niel

The mark shown in the drawing is a fanciful expression.
For Face Cream.
Claims use since Aug. 8, 1916.

Ser. No. 644,575. J. Strickland & Co., Memphis, Tenn. Filed Apr. 1, 1953.

Blue Magic

For Hair Dressing.
Claims use since Feb. 24, 1953.

Ser. No. 652,368. Dr. Wurmbock, G. m. b. H., Munich, Germany. Filed Aug. 26, 1953.

heluan

For Nail Polish Remover.
Claims use since June 28, 1948; and first used in commerce between the United States and Germany, on Oct. 21, 1952.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 629,493. Huntington Laboratories, Inc., Huntington, Ind. Filed May 10, 1952.

KOREX

For Concentrated Liquid Scrub Soap to Which a Germicide Has Been Added, and Prepared for Institutional and Industrial Uses.
Claims use since Dec. 31, 1929.

Ser. No. 645,691. The Betco Corporation, Toledo, Ohio. Filed Apr. 22, 1953.

Virox

For Bowl Cleanser.
Claims use since on or about Mar. 27, 1953.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 599,167. Grand Lodge of Theta Delta Chi, New York, N. Y. Filed June 15, 1950. COLLECTIVE MARK.

ΘΔX

The Greek letters are those named "theta, delta, and chi."
For Establishment and Maintenance of Membership in a National Collegiate Fraternity as Well as the Stimulation and Maintenance of Interest in Good Scholarship, and Collegiate Activities.
Claims use since Oct. 31, 1847.

Ser. No. 635,376. Walter W. Ross and Company, Inc., doing business as Beta Sigma Phi and sometimes Beta Sigma Phi International, Kansas City, Mo. Filed Sept. 17, 1952. COLLECTIVE MARK.



For Organizing of Chapters in a National Business Society and the Establishment and Maintenance of Membership Therein, and Furthering the Social, Cultural, and Educational Ideals Thereof.
Claims use since April 1931.

Ser. No. 635,377. Walter W. Ross and Company, Inc., doing business as Beta Sigma Phi and sometimes Beta Sigma Phi International, Kansas City, Mo. Filed Sept. 17, 1952. COLLECTIVE MARK.



For Organizing of Chapters in a National Business Society and the Establishment and Maintenance of Membership Therein, and Furthering the Social, Cultural, and Educational Ideals Thereof.
Claims use since during April 1931.

CLASS 101

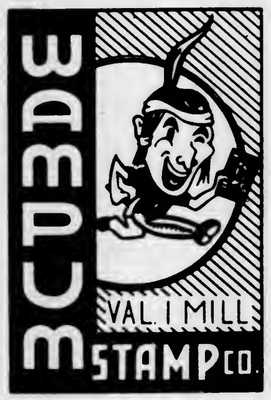
ADVERTISING AND BUSINESS

Ser. No. 611,850. National Appliance & Radio Dealers Association, Inc., Chicago, Ill. Filed Mar. 27, 1951.

NARDA

For Promotional Services Among Members of the Association and Others Engaged in the Business of Merchandising and Servicing of Appliance, Radio, and Television Equipment—Namely, the Preparation and Distribution Among the Members of the Association of Promotional Information and Suggestions Relating to Their Business; and the Preparation and Dissemination of Advertising and Publicity Material to Acquaint the Public With the Principles and Aims of the Members of the Association.
Claims use since July 12, 1948.

Ser. No. 638,819. Richard E. Stevenson, doing business under the name of Wampum Stamp Co., Medford, Oreg. Filed Dec. 1, 1952.



The lining is a part of the mark. The words "Val. 1 Mill," and "Stamp Co." are disclaimed apart from the service mark.
For Sales Promotion of the Goods and Services of Others Through the Medium of Trading Stamps Which Are Redeemable in Merchandise or Cash Premiums.
Claims use since July 22, 1952.

Ser. No. 643,438. Joseph Stamler, doing business under the name and style of Sky High Enterprises, New York, N. Y. Filed Mar. 10, 1953.



For Advertising Agency Services Rendered on Behalf of Clients—Namely, Arranging for the Purchase and Sale of Advertising Space in Periodical Publications, Newspapers, Billboards, Radio and Television Broadcast Time, and Skywriting Time; Creating and Preparing Advertising Campaigns; and Preparing and Distributing Copy, Scripts and Transcriptions for Use in Newspaper, Radio, Television, Motion Pictures, and Skywriting Advertising.
Claims use since Mar. 27, 1952.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 638,285. American Independent Reinsurance Company, Orlando, Fla. Filed Nov. 19, 1952.



"AMERICAN PROTECTION"

The dominant feature of the service mark comprises a representation of Mount Rushmore Memorial, located in South Dakota. The words "American Protection" are disclaimed apart from the mark shown in the drawing.
For Underwriting the General Types of Insurance and Reinsurance—To Wit, Fire, Casualty, Liability, Title to Land, Marine, Burglary, Boiler, Workmen's Compensation, Aircraft, and Loss of Use.
Claims use since Nov. 4, 1952.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 633,005. Thrift-D-Lux Cleaners, Inc., Los Angeles, Calif. Filed Sept. 8, 1952.



All the wording except "Thrift-D-Lux" is disclaimed apart from the mark shown in the drawing.
For Dry Cleaning and Pressing of Garments and Other Materials.
Claims use since Jan. 19, 1949.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 638,226. Trans World Airlines, Inc., Kansas City, Mo. Filed Nov. 17, 1952. (Sec. 2f.)

SKYLINER

For Air Transportation of Persons, Property, and Mail. Claims use since 1935.

CLASS 106

MATERIAL TREATMENT

Ser. No. 600,458. Triangle Finishing Corp., Johnstown, N. Y. Filed July 10, 1950.

TRIANGLE

For Treating the Goods of Others—Namely, Dyeing and Stabilizing Woven and Knitted Fabrics Against Subsequent Shrinkage Upon Laundering and Against Dye Fading and Also Applying Dispersions or Emulsions of Resinous Material to Knitted and Woven Fabrics for the Purpose of Effecting Crease and Crush Resistance and Also for Achieving a Durable, Crisp, or Firm Hand.

Claims use since about 1926.

Ser. No. 638,141. Robert K. George, doing business as Precision Attachments Company, Indianapolis, Ind. Filed Nov. 15, 1952.

Vita-Life

For Dental Laboratory Services—Namely, Fashioning of Dental Jacket Crowns from Impressions Furnished by Dentists.

Claims use since May 14, 1952.

Ser. No. 649,281. Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y. Filed June 24, 1953.

BRADCRISPA

Applicant claims ownership of Registrations Nos. 188,786, 191,136, and others.

For Services Rendered Manufacturers of Cotton Fabrics, Which Services Consist in Applying to the Fabric a Firm or Crisp Finish Which Is Durable to Normal Laundry Washing.

Claims use since Mar. 6, 1953.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

584,748. Single and Multiple Drum Hoists and Drums Therefor, Etc. American Hoist & Derrick Co., St. Paul, Minn.
Filed Nov. 13, 1947, Serial No. 540,957. Published July 28, 1953. Class 23.

584,749. Canned Foods—Namely, Whole Kernel and Cream Style Sweet Corn, Pumpkin, Pork and Beans, Dill Pickles, Sauerkraut, and Red Chili Beans. Midland Canning Corporation, Billings, Mont., assignor to Big Horn Canning Company, Cowley, Wyo.
Filed Dec. 29, 1947, Serial No. 545,639. CONCURRENT USE. Published Oct. 20, 1953. Class 46.

584,750. Women's Shoes. Marshall, Meadows & Stewart, Inc., Auburn, N. Y.
Filed Feb. 25, 1948, Serial No. 550,535. Published Oct. 6, 1953. Class 39.

584,751. Wheat Flour. Fisher Flouring Mills Company, Seattle, Wash.
Filed Aug. 24, 1948, Serial No. 563,921. CONCURRENT USE. Published Oct. 20, 1953. Class 46.

584,752. Gravity Fed and Dip Type Liquid Brusher or Felt Pad Applicators Useful in the Application of Liquids to the Skin and Hair or Other Parts of the Body. Joseph A. Voss, doing business as The Voss Patents and Sales Company, Denver, Colo., assignor to Gertrude S. Tenderich, Denver, Colo.
Filed Nov. 12, 1948, Serial No. 568,696. Published Oct. 27, 1953. Class 29.

584,753. Bacon. American Stores Company, Philadelphia, Pa.
Filed Dec. 29, 1949, Serial No. 590,056. Published Feb. 24, 1953. Class 46.

584,754. Candy. Candy-Lane, Inc., Los Angeles, Calif.
Filed Jan. 5, 1950, Serial No. 590,351. Published Mar. 18, 1952. Class 46.

584,755. Packaged Fresh Vegetables—Namely, Spinach, Celery Hearts, and Mixed Vegetables for Salad. Sunny Sally Vegetable Growers, Los Angeles, Calif.
Filed Dec. 3, 1948, Serial No. 569,905. Published Mar. 18, 1952. Class 46.

584,756. Hearing-Aids and Acoustic Elements and Accessories Thereof—Namely, Sound Transmitters, Telephone Receivers, Hearing-Inducing Bone Oscillators, and Electric Sound Amplifiers. Sonotone Corporation, Elmsford, N. Y.
Filed Aug. 17, 1949, Serial No. 583,621. Published July 8, 1952. Class 44.

584,757. Steam Turbines and Parts Thereof; Internal Combustion Turbines and Parts Thereof; Etc. Metropolitan-Vickers Electrical Company Limited, London, England.
Filed Feb. 1, 1950, Serial No. 591,790. Published Sept. 22, 1953. Class 23.

584,758. Steam Turbines and Parts Thereof; Internal Combustion Turbines and Parts Thereof; Etc. Metropolitan-Vickers Electrical Company Limited, London, England.
Filed Feb. 1, 1950, Serial No. 591,792. Published Sept. 22, 1953. Class 23.

584,759. Alimentary Paste Products—Namely, Alimentary Paste for Babies. Prince Macaroni Manufacturing Company, also doing business under the name of Roman Prince Macaroni Co., Lowell, Mass.
Filed Mar. 9, 1950, Serial No. 593,686. Published Oct. 20, 1953. Class 46.

584,760. Nonalcoholic Maltless Beverages Sold as Soft Drinks and Bases, Concentrates, Syrups, and Extracts for Making Same. Reimann Industries, Inc., Minneapolis, Minn.
Filed Apr. 8, 1950, Serial No. 595,471. Published Oct. 13, 1953. Class 45.

584,761. Poultry, Dairy, and Stock Feeds. New England Grain Products Co., Yarmouth, Maine.
Filed July 13, 1950, Serial No. 600,608. Published Oct. 20, 1953. Class 46.

584,762. Electric Griddles, Electric Frying Pans, Electric Deep Fat Fryers. Naxon Utilities Corporation, Chicago, Ill.
Filed Aug. 2, 1950, Serial No. 601,637. Published Oct. 27, 1953. Class 21.

584,763. Face Powders, Talcum Powders, Bath Salts, Toilet Waters, and Perfumes. A. Niggi & C., Imperia-Oneglia, Italy.
Filed Aug. 2, 1950, Serial No. 601,638. Published Oct. 6, 1953. Class 51.

584,764. Watches, and Parts of Watches. Felca S. A., Granges, Switzerland.
Filed Sept. 8, 1950, Serial No. 603,289. Published Oct. 27, 1953. Class 27.

584,765. Ladies', Girls', and Children's Sweaters, Skirts, Blouses, Etc. Kaufman Knitting Company, Minneapolis, Minn.
Filed Dec. 6, 1950, Serial No. 607,333. Published Oct. 6, 1953. Class 39.

584,766. Gift Shop Items—Namely, Earthenware and Porcelain Dishes, Cups, Saucers, Trays and Platters, Salt and Pepper Shakers, Bowls, Vases, Jars, and Pots. The Milk Farm, Dixon, Calif.
Filed Jan. 24, 1951, Serial No. 609,182. Published Oct. 27, 1953. Class 30.

584,767. Dairy Products—Namely, Fluid Milk. Knudsen Creamery Co. of California, Los Angeles, Calif.
Filed Mar. 16, 1951, Serial No. 611,433. Published Oct. 20, 1953. Class 46.

584,768. Electrical Controller Apparatus for the Starting, Stopping, Reversing, and Speed Regulation of Electrically Actuated Motors. Sel-Set Company, Salem and West Salem, Oreg.
Filed Apr. 6, 1951, Serial No. 612,358. Published Oct. 20, 1953. Class 21.

584,769. Steel Box Toes for Shoes. Safety Box Toe Company, Boston, Mass.
Filed Apr. 10, 1951, Serial No. 612,474. Published Oct. 27, 1953. Class 39.

584,770. Concrete Building Blocks. The W. E. Dunn Manufacturing Company, Holland, Mich.
Filed Apr. 13, 1951, Serial No. 612,598. Published Dec. 9, 1952. Class 12.

584,771. Cookies. Charles A. Wilkinson, doing business as Mrs. Kornreich Klein Bakery, Milwaukee, Wis.
Filed Apr. 24, 1951, Serial No. 613,100. Published Oct. 20, 1953. Class 46.

584,772. Women's Ready-To-Wear Garments and Accessories—Namely, Women's Coats and Suits; Millinery—Namely, Hats, Bonnets, and Berets; Women's Dresses; and Women's Sportswear Separates—Namely, Shirts, Blouses, Sweaters, Etc. J. W. Robinson Co., Los Angeles, Calif.
Filed Apr. 30, 1951, Serial No. 613,346. Published Oct. 27, 1953. Class 39.

584,773. Candy. Trudeau Candies, Inc., St. Paul, Minn.
Filed May 21, 1951, Serial No. 614,178. Published Oct. 20, 1953. Class 46.

584,774. Poultry and Stock Foods. E. L. M. Stores, also doing business as E. L. M. Feed Stores, Greencastle, Pa.
Filed May 23, 1951, Serial No. 614,269. Published Oct. 20, 1953. Class 46.

584,775. Spices. "Pilotlab," Evans City, Pa.
Filed June 15, 1951, Serial No. 615,245. Published Oct. 13, 1953. Class 46.

584,776. Cooked Chicken and Prepared Dinners Delivered in Packages to the Consumer Ready for Use; Each Package Consisting of Chicken, Vegetables, and Bread. Clifford W. White, Louisville, Ky.
Filed June 16, 1951, Serial No. 615,301. Published Oct. 20, 1953. Class 46.

584,777. Shoes and Sandals for Men, Women, and Children. Randolph Manufacturing Company, Incorporated, Randolph, Mass.
Filed Aug. 6, 1951, Serial No. 617,377. Published Oct. 27, 1953. Class 39.

584,778. Woven and Braided Elastic Fabric Strips, Tapes, Trimmings, Edgings, Lacings, and Insertions, Suitable for Use by the Manufacturers of Wearing Apparel, Footwear, Etc. Thomas Taylor & Sons, Inc., Hudson, Mass.
Filed Aug. 15, 1951, Serial No. 617,736. Published Oct. 27, 1953. Class 40.

584,779. Pure Refined Lard, Prime Steam Lard, Rendered Pork Fat, and Refined Soybean Oil. Plata American Trading Inc., New York, N. Y.
Filed Aug. 27, 1951, Serial No. 618,125. Published Oct. 20, 1953. Class 46.

584,780. Sponge Having a Pouch Therein Containing a Detergent in Cake Form, and Used for Cleansing or Bathing the Face and Body. Charles F. J. Dupuy, doing business under the trade-name Beautergent Products, Allendale, N. J.
Filed Sept. 18, 1951, Serial No. 618,915. Published Oct. 13, 1953. Class 52.

584,781. China Tableware. Easterling China Company, Chicago, Ill.
Filed Oct. 10, 1951, Serial No. 619,822. Published Oct. 27, 1953. Class 30.

584,782. Tanned and Untanned and Dressed and Undressed Leather and Skins in the Piece. Barrow, Hepburn & Gale Limited, London, England.
Filed Nov. 13, 1951, Serial No. 621,127. Published Oct. 20, 1953. Class 1.

584,783. Pharmaceutical Preparation Consisting of a Vitamin B Complex, Extracted From Brewers' Yeast, Enriched With Vitamin B_1. Instituto de Biologia y Sueroterapia, Madrid, Spain.
Filed Nov. 21, 1951, Serial No. 621,518. Published Sept. 22, 1953. Class 18.

584,784. Popcorn in Its Natural State, Vegetable Oils, and Popcorn Oil for Deep Fat Cooking, Sautéing, and the Like. Marose Company, Inc., Thomasville, Ga.
Filed Dec. 5, 1951, Serial No. 622,114. Published Jan. 20, 1953. Class 46.

584,785. Egg Mash, Concentrated Poultry Feed Consisting of Meat and Bone Scraps, Etc. Flour Mills of America, Inc., Kansas City, Mo.
Filed Dec. 13, 1951, Serial No. 622,432. Published June 17, 1952. Class 46.

584,786. Metal Castings for Jewelry Findings for Finger Rings, Earrings, Pendants, and Brooches. Globe Ring Co., New York and Brooklyn, N. Y.
Filed Dec. 18, 1951, Serial No. 622,650. Published Oct. 27, 1953. Class 14.

584,787. Dog and Cat Food. Pets Meat Packing Company, Rush Springs, Okla.
Filed Jan. 10, 1952, Serial No. 623,429. Published May 12, 1953. Class 46.

584,788. Solid Chocolate Used for Eating, Cooking, and Baking. Hershey Chocolate Corporation, Hershey, Pa.
Filed Jan. 14, 1952, Serial No. 623,544. Published Sept. 29, 1953. Class 46.

584,789. Floral Display Consisting of Natural Flowers Placed in an Aqueous Solution in a Permanently Sealed Glass Bowl. Bowl-O-Beauty Co., Maywood, Ill.
Filed Jan. 24, 1952, Serial No. 624,020. Published Oct. 27, 1953. Class 50.

584,790. Chemical Compounds for Cleaning Engine and Machinery Parts and for Removing Carbon, Grease, Sludge, Gum, Dye, Stains, Paint, and Lacquer Therefrom. R. M. Hollingshead Corporation, Camden, N. J.
Filed Feb. 5, 1952, Serial No. 624,546. Published Oct. 20, 1953. Class 52.

584,791. Porcelain Vases; Chinaware—Namely, Flower Pots and Boxes, Dishes, Jars, Candy Boxes, All Made from Earthenware or Porcelain. Ardalt Inc., New York, N. Y.
Filed Feb. 6, 1952, Serial No. 624,583. Published Aug. 18, 1953. Class 30.

584,792. Perfume Oil and Sachet Powder. Pearl M. Simmons, doing business as Ardoll Products, Chicago, Ill.
Filed Dec. 4, 1951, Serial No. 624,720. Published Oct. 20, 1953. Class 51.

584,793. Pre-Fabricated Buildings—Namely, Houses, Garages, Sheds, Storehouses, Halls, Hangars, Lodges, Pavillions, Kiosks, Bungalows, Barns, Cabins, and Barracks. N. V. Ontwikkelingmaatschappij "Polynorm." Amsterdam and Amersfoort, Netherlands.
Filed Feb. 12, 1952, Serial No. 624,845. Published Oct. 20, 1953. Class 12.

584,794. Millwork and Particularly Doors and Door Frames, Shutters, Mantels, Window Frames, and Sash, Etc. The Silcrest Company, Wausau, Wis.
Filed Feb. 16, 1952, Serial No. 625,080. Published Oct. 6, 1953. Class 12.

584,795. Welding Rods and Welding Alloys, in Particular for Welding of Non-Ferrous Metals. A. E. Ulmann & Associates, Ltd., New York, N. Y.
Filed Mar. 1, 1952, Serial No. 625,836. Published Oct. 27, 1953. Class 14.

584,796. Almond Macaroons. Theo. J. Lapres, Inc., Atlantic City, N. J.
Filed Mar. 10, 1952, Serial No. 626,209. Published Oct. 20, 1953. Class 46.

584,797. Junior Misses', Misses', and Ladies' Coats, Dresses, Gowns for Outerwear, Etc. Manufactures de Senones (Vosges) Société à Responsabilité Limitée, Paris, France.
Filed Mar. 13, 1952, Serial No. 626,395. Published Oct. 6, 1953. Class 39.

584,798. Flower Seeds. Germain's, Inc., Los Angeles, Calif.
Filed Mar. 15, 1952, Serial No. 626,507. Published Oct. 20, 1953. Class 1.

584,799. Controlled Suds Washing Compound Especially for Washing Textiles in Automatic Washing Machines. The Buckeye Soda Company, Painesville, Ohio.
Filed Mar. 19, 1952, Serial No. 626,653. Published Oct. 13, 1953. Class 52.

584,800. Metal Castings of Both Ferrous and Non-Ferrous Materials Made to Customer Specifications. Econocast, Inc., Chattanooga, Tenn.
Filed Mar. 27, 1952, Serial No. 627,119. Published Oct. 27, 1953. Class 14.

584,801. Metal Castings of Both Ferrous and Non-Ferrous Materials Made to Customer Specifications. Econocast, Inc., Chattanooga, Tenn.
Filed Mar. 27, 1952, Serial No. 627,120. Published Oct. 27, 1953. Class 14.

584,802. Machines Employing Electric Light Bulbs for Warming Chocolate for Dipping Ice Cream in Cones. Geo. A. Fox Products Co., Inc., Kansas City, Mo.
Filed Mar. 31, 1952, Serial No. 627,331. Published Oct. 20, 1953. Class 21.

584,803. Particular Type of Boot Toes. Westex Boot and Shoe Company, Inc., Wichita Falls, Tex.
Filed Apr. 4, 1952, Serial No. 627,611. Published Oct. 6, 1953. Class 39.

584,804. Boots for Men, Women, and Children. The Cambridge Rubber Company, Cambridge, Mass., and Taneytown, Md.
Filed Apr. 17, 1952, Serial No. 628,190. Published Oct. 27, 1953. Class 39.

584,805. Vegetable Shortening. The Miami Margarine Company, Cincinnati, Ohio.
Filed May 7, 1952, Serial No. 629,310. Published Sept. 29, 1953. Class 46.

584,806. Men's Pajamas and Under Shorts. Carmi-Ainsbrooke Corporation, New York, N. Y.
Filed May 9, 1952, Serial No. 629,424. Published Oct. 27, 1953. Class 39.

584,807. Girls' Shoes, Slippers, Loafers of Leather, Fabric, and Combinations Thereof, and With Leather and Rubber Soles. National Bellas Hess, Inc., North Kansas City, Mo.
Filed May 9, 1952, Serial No. 629,451. Published Oct. 27, 1953. Class 39.

584,808. Men's Wearing Apparel—Namely, a Combination Sweater-Vest. George W. Heller, Inc., New York, N. Y.
Filed May 14, 1952, Serial No. 629,671. Published Oct. 27, 1953. Class 39.

584,809. Men's, Women's, and Children's Bowling Shoes, Football Shoes, Baseball Shoes, and Basketball Shoes. Shoe Corporation of America, Columbus, Ohio.
Filed May 20, 1952, Serial No. 629,960. Published Oct. 6, 1953. Class 39.

584,810. Antibiotic-Containing Veterinary Composition for Intramuscular Injection. Commercial Solvents Corporation, New York, N. Y.
Filed May 23, 1952, Serial No. 630,121. Published June 23, 1953. Class 18.

584,811. Bearing Alloys, Babbitt Metals, and White-Metal Alloys, Used as Anti-Frictional Media. Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y.
Filed May 9, 1952, Serial No. 630,296. Published Oct. 27, 1953. Class 14.

584,812. Diapers. The Millville Manufacturing Company, Philadelphia, Pa.
Filed May 28, 1952, Serial No. 630,435. Published Oct. 27, 1953. Class 39.

584,813. General Cleansing and Washing Compound for Personal Use, for Use in the Kitchen and Household Generally, and for Use in the Laundry, Garage, Dairy, and Industrial Plants of All Kinds. Oakite Products, Inc., New York, N. Y.
Filed June 2, 1952, Serial No. 630,607. Published Oct. 20, 1953. Class 52.

584,814. Face Make-Up Ensemble Comprising Lip Rouge With Brush for Applying It, Face Rouge, and Eye Shadow. George S. Sanders, New York, N. Y., assignor to Sanders & Steinberg, New York, N. Y., a firm composed of George S. Sanders and Rudolph Steinberg.
Filed June 9, 1952, Serial No. 630,963. Published Oct. 6, 1953. Class 51.

584,815. Telephone Switching Systems and Apparatus Therefor — Namely, Automatic Central Office and Rural Systems, Etc. International Telephone and Telegraph Corporation, New York, N. Y.
Filed June 24, 1952, Serial No. 631,668. Published Oct. 27, 1953. Class 21.

584,816. Toiletries—Namely, Perfumes, Colognes, Dusting Powders, Bath Salts, Face Powders, Lipsticks, Skin and Deodorant Creams, and Skin Lotions. Le Anne Toiletries, also trading as Le Anne Products, Syracuse, N. Y.
Filed June 25, 1952, Serial No. 631,742. Published Oct. 6, 1953. Class 51.

584,817. Portable Hand-Operated Electric Sprayers and Dusters for Dispensing Paints, Insecticides, and the Like. The Electric Sprayit Company, Sheboygan, Wis.
Filed June 7, 1952, Serial No. 631,911. Published Oct. 20, 1953. Class 21.

584,818. Skirt Hangers and Coat Hangers, All Made From Wood and Plastic Materials, a Trouser Hanger Having a Hinged Member Which Clamps Over the Trousers To Keep Them in Creased Condition. Fratelli Regulitti s. r. l., Agnosine, Brescia, Italy.
Filed June 28, 1952, Serial No. 631,924. Published Oct. 6, 1953. Class 50.

584,819. Thin, Plastic Sheet Material, Sold Cut to Size, for Use in the Mixing and Rolling of Pie Dough and the Like. Mildred P. Semple, doing business as Mildred Semple Industries, Wollaston, Mass.
Filed June 28, 1952, Serial No. 631,950. Published Oct. 20, 1953. Class 50.

584,820. Facial Cream. Vix Laboratories, Inc., New York, N. Y.
Filed June 28, 1952, Serial No. 631,954. Published Oct. 6, 1953. Class 51.

584,821. Small Art Symbols Made of Materials Other Than Precious Metals in the Form of Animals, Etc. Barbara T. Quirk, West Hartford, Conn.
Filed July 3, 1952, Serial No. 632,110. Published Oct. 20, 1953. Class 50.

584,822. Emulsions of Fatty Acid Esters in Water Being for Use as a Substitute for Cream. John R. Sorensen & Company Limited, Manchester, England.
Filed July 8, 1952, Serial No. 632,276. Published Oct. 27, 1953. Class 46.

584,823. Alimentary Pastes. Flli De Cecco di Filippo, Abruzzi, Italy.
Filed July 10, 1952, Serial No. 632,364. Published Sept. 29, 1953. Class 46.

584,824. Alimentary Pastes. Flli De Cecco di Filippo, Abruzzi, Italy.
Filed July 10, 1952, Serial No. 632,365. Published Oct. 20, 1953. Class 46.

584,825. Soap and Scouring Powder. Finnell System, Incorporated, Elkhart, Ind.
Filed July 12, 1952, Serial No. 632,472. Published Oct. 20, 1953. Class 52.

584,826. Women's House Slippers—Namely, Soft Soled Scuffs. Bailey Shoe Company, San Angelo, Tex.
Filed July 14, 1952, Serial No. 632,499. Published Oct. 27, 1953. Class 39.

584,827. Fresh Melons. John E. Howe, Yuma, Ariz.
Filed July 31, 1952, Serial No. 633,309. Published Oct. 27, 1953. Class 46.

584,828. Building Insulation Consisting of Padding of Mineral Wool Fibers Between Layers of Kraft Paper. Reginald R. Gaines, doing business as The Rock Wool Insulation Co., Washington, D. C.
Filed Aug. 7, 1952, Serial No. 633,577. Published Oct. 20, 1953. Class 12.

584,829. Antibiotic Dietary Supplement for Chicks and Poults. Junex Products, Chicago, Ill.
Filed Aug. 8, 1952, Serial No. 633,616. Published Sept. 22, 1953. Class 18.

584,830. Injection Molding Machine Feeders. A. Reynolds Morse, doing business as Injection Molders Supply Company, Cleveland, Ohio.
Filed Aug. 2, 1952, Serial No. 633,427. Published Sept. 15, 1953. Class 23.

584,831. Perfume. Richard Hudnut, New York, N. Y.
Filed Aug. 9, 1952, Serial No. 633,673. Published Oct. 20, 1953. Class 51.

584,832. Cosmetic Kits Containing One or More of the Following Items: Hand and Body Lotion, Talc Sachet. Richard Hudnut, New York, N. Y.
Filed Aug. 9, 1952, Serial No. 633,674. Published Oct. 20, 1953. Class 51.

584,833. Covers Made of Transparent Plastic Material for Women's Shoes and Boots. National Transparent Plastics Company, Springfield, Mass.
Filed Aug. 12, 1952, Serial No. 633,785. Published Oct. 27, 1953. Class 39.

584,834. Can Opener. Vaughan Mfg. Co., Chicago, Ill.
Filed July 23, 1952, Serial No. 633,824. Published Sept. 15, 1953. Class 23.

584,835. Sun Tan Oil. Charles M. McCarthy, doing business under the name of "Prof. McCarthy," Miami Beach, Fla.
Filed Aug. 13, 1952, Serial No. 633,852. Published Oct. 6, 1953. Class 51.

584,836. Preparation for the Treatment of Endocrine Dysfunction, in Ampule and Tablet Form. G. D. Searle & Co., Skokie, Ill.
Filed Aug. 15, 1952, Serial No. 634,006. Published Oct. 20, 1953. Class 18.

584,837. Antacid Preparation. The Wander Company, doing business under the name "Smith-Dorsey," Chicago, Ill.
Filed Aug. 16, 1952, Serial No. 634,064. Published Sept. 22, 1953. Class 18.

584,838. Feed Supplement for Animal Feeds Consisting of Compositions Containing Arsanilic Acid and Antibiotics and Compositions Containing Derivatives of Arsanilic Acid and Antibiotics. Abbott Laboratories, North Chicago, Ill.
Filed Aug. 20, 1952, Serial No. 634,179. Published Oct. 20, 1953. Class 18.

584,839. Medicated Preparation for the Relief of Itching and Discomfort of Athlete's Foot and To Reduce Excessive Perspiration and Foot Odors. Maude Hirschman, San Pedro, Calif.
Filed Aug. 25, 1952, Serial No. 634,410. Published Sept. 22, 1953. Class 18.

584,840. Cleaning Compound for Use in Washing Automotive Vehicles. Gateway Chemicals, Inc., Chicago, Ill.
Filed Sept. 6, 1952, Serial No. 634,938. Published Oct. 20, 1953. Class 52.

584,841. Cymbals. Avedis Zildjian Co., Quincy, Mass.
Filed Sept. 9, 1952, Serial No. 635,077. Published Oct. 6, 1953. Class 36.

584,842. Synthetic Plastic Materials in the Form of Granules and Liquids Having Various Uses in the Industrial Arts. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed Sept. 11, 1952, Serial No. 635,129. Published Oct. 20, 1953. Class 6.

584,843. Building Doors Alumiclad Doors, Inc., Port Orange, Fla.
Filed Sept. 13, 1952, Serial No. 635,212. Published Oct. 20, 1953. Class 12.

584,844. China Dinnerware. National Silver Company, New York, N. Y.
Filed Sept. 13, 1952, Serial No. 635,231. Published Aug. 18, 1953. Class 30.

584,845. Chinaware Consisting of Tea Cups and Saucers, Coffee Cups and Saucers, After-Dinner Coffee Cups and Saucers, Dinner Plates, Salad Plates, Bread and Butter Plates, Platters, Etc. Lipper & Mann, Inc., New York, N. Y.
Filed Sept. 16, 1952, Serial No. 635,313. Published Oct. 27, 1953. Class 30.

584,846. Waterless Hand Cleansing Preparation. Claude E. Strickler, Jr., doing business as Shiloh Manufacturing Company, York, Pa.
Filed Sept. 16, 1952, Serial No. 635,331. Published Oct. 20, 1953. Class 52.

584,847. Putty-Like, Non-Metallic Composition in Paste Form for Masking Purposes in Metal Joining Operations. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed Sept. 17, 1952, Serial No. 635,356. Published Oct. 20, 1953. Class 12.

584,848. Knitted Articles of Clothing for Men, Women, Boys, and Girls—Namely, Socks, Stockings, Sweaters, and Bathing Suits. Wollfärberei Bürglen Dr. Jakob Cunz Aktiengesellschaft, Burglen, Thurgau, Switzerland.
Filed Sept. 26, 1952, Serial No. 635,863. Published Oct. 27, 1953. Class 39.

584,849. Leather. F. C. Donovan, Inc., Boston, Mass.
Filed Oct. 3, 1952, Serial No. 636,123. Published Oct. 20, 1953. Class 1.

584,850. Cleaning Composition Such as Detergents, Soaps, Etc., for General Household Cleaning Purposes. Industrial Soap Company, St. Louis, Mo.
Filed Oct. 3, 1952, Serial No. 636,130. Published Oct. 20, 1953. Class 52.

584,851. Whiskies. Stitzel-Weller Distillery, Louisville, Ky.
Filed Oct. 6, 1952, Serial No. 636,259. Published Oct. 13, 1953. Class 49.

584,852. Diapers. Dri-Babe of California, Inc., Santa Monica, Calif.
Filed Oct. 9, 1952, Serial No. 636,412. Published Oct. 27, 1953. Class 39.

584,853. Shoes for Children. Simplex Shoe Manufacturing Company, Milwaukee, Wis.
Filed Oct. 18, 1952, Serial No. 636,864. Published Oct. 27, 1953. Class 39.

584,854. Horological Instruments—Namely, Watches and Parts Thereof; Clocks and Parts Thereof; Watch Springs; and Watch Cases. Michaels & Co., Inc., Brooklyn, N. Y.
Filed Oct. 22, 1952, Serial No. 636,990. Published Aug. 18, 1953. Class 27.

584,855. Jewelry and Precious Metalware—Namely, Anklets; Bracelets; Earrings; Etc. Michaels & Co., Inc., Brooklyn, N. Y.
Filed Oct. 22, 1952, Serial No. 636,991. Published Oct. 27, 1953. Class 28.

584,856. Periodical for Food Retailers. Meat Merchandising, Inc., St. Louis, Mo.
Filed Oct. 29, 1952, Serial No. 637,317. Published Oct. 27, 1953. Class 38.

584,857. Horological Instruments, and More Specifically Watches and Clocks. Products Exchange Company, Inc., New York, N. Y.
Filed Nov. 1, 1952, Serial No. 637,502. Published Aug. 18, 1953. Class 27.

584,858. Rice. Converted Rice, Inc., Houston, Tex.
Filed Nov. 5, 1952, Serial No. 637,646. Published Oct. 20, 1953. Class 46.

584,859. Men's Shoes. Stone-Tarlow Co., Inc., Brockton, Mass.
Filed Nov. 6, 1952, Serial No. 637,729. Published Oct. 6, 1953. Class 39.

584,860. Electric Transformers and Chokes. Transformer Technicians Inc., Chicago, Ill.
Filed Nov. 6, 1952, Serial No. 637,734. Published Oct. 20, 1953. Class 21.

584,861. Boots, Shoes, and Slippers for Men, Women, or Children. Brevitt Shoes Limited, Leicester, England.
Priority under Sec. 44(d). British Registration No. 710,862, filed Sept. 25, 1952
Filed Nov. 12, 1952, Serial No. 637,910. Published Oct. 13, 1953. Class 39.

584,862. Electric Fans. Westinghouse Electric Corporation, East Pittsburgh, Pa., and East Springfield, Ohio.
Filed Nov. 15, 1952, Serial No. 638,172. Published Oct. 20, 1953. Class 21.

584,863. Hair Lotions and Hair Cremes. Rayette, Inc., St. Paul, Minn.
Filed Nov. 18, 1952, Serial No. 638,270. Published Oct. 20, 1953. Class 51.

584,864. Cosmetics for Ladies—Namely, Lipsticks, Rouges, Perfumes, Colognes, Face Powders, Etc. Stanley Home Products, Inc., Westfield, Mass.
Filed Nov. 24, 1952, Serial No. 638,556. Published July 28, 1953. Class 51.

584,865. After Shave Lotion. Colgate-Palmolive-Peet Company, Jersey City, N. J., now by change of name Colgate-Palmolive Company.
Filed Dec. 2, 1952, Serial No. 638,835. Published Oct. 6, 1953. Class 51.

584,866. Chemical Transparent Coolant and Lubricant. R. Edward Smith, doing business as Cal Tek Industries, Los Angeles, Calif.
Filed Dec. 8, 1952, Serial No. 639,197. Published Sept. 22, 1953. Class 15.

584,867. Preparation for Making Coffee Substitute. General Foods Corporation, New York, N. Y.
Filed Dec. 9, 1952, Serial No. 639,220. Published Oct. 20, 1953. Class 46.

584,868. Railway Friction Draft Gears. Cardwell Westinghouse Company, Chicago, Ill.
Filed Dec. 11, 1952, Serial No. 639,315. Published Aug. 11, 1953. Class 19.

584,869. Men's, Women's, and Children's Outergarments—Namely, Overcoats, Topcoats, Raincoats, Suits, Coats, and Jackets. Deering, Milliken & Co., Inc., New York, N. Y.
Filed Dec. 11, 1952, Serial No. 639,317. Published Oct. 6, 1953. Class 39.

584,870. Internal Combustion Engines, and Parts Therefor, for Use in Toy Model Vehicles. Wen-Mac Corporation, Beverly Hills, Calif.
Filed Dec. 11, 1952, Serial No. 639,353. Published Oct. 20, 1953. Class 22.

584,871. Phonograph Styli for Grooved Phonograph Records. General Electric Company, Schenectady, N. Y.
Filed Dec. 17, 1952, Serial No. 639,629. Published Oct. 27, 1953. Class 36.

584,872. Electrical Wiring Supplies and Accessories Therefor—Namely, Entrance Fittings for Rigid Conduit, Etc. Electrical Fittings Corporation, Woodside, N. Y.
Filed Dec. 23, 1952, Serial No. 639,923. Published Oct. 20, 1953. Class 21.

584,873. Ground, Hard Bitumen Used as Insulating Material. American Gilsonite Company, Salt Lake City, Utah.
Filed Dec. 26, 1952, Serial No. 640,032. Published Oct. 20, 1953. Class 12.

584,874. Cured Smoked Pork Sausage. Kuhner Packing Company, Muncie, Ind.
Filed Dec. 30, 1952, Serial No. 640,162. Published Oct. 27, 1953. Class 46.

584,875. Fishing Rods, Fishing Lines, Fishhooks, Etc. Grants Pass Sporting Goods, Grants Pass, Oreg.
Filed Jan. 8, 1953, Serial No. 640,512. Published Oct. 20, 1953. Class 22.

584,876. Dolls. Margaret Hockaday, New York, N. Y.
Filed Jan. 12, 1953, Serial No. 640,632. Published Oct. 20, 1953. Class 22.

584,877. Frangible Capsules To Be Inserted in Spike Holes of Railroad Ties, Etc. Wood-Treating Corporation, Cleveland, Ohio.
Filed Jan. 15, 1953, Serial No. 640,828. Published Nov. 10, 1953. Class 12.

584,878. Hand Lotion and Skin Cream. Skin Research, Inc., New York, N. Y.
Filed Jan. 16, 1953, Serial No. 640,871. Published Oct. 20, 1953. Class 51.

584,879. Religious Publications Published Periodically. The Evangelical Methodist Church, Altoona, Pa.
Filed Jan. 23, 1953, Serial No. 641,179. Published Oct. 13, 1953. Class 38.

584,880. Artificial Teeth. Vita-Zahnfabrik H. Rauter O. H. G., Essen, Germany.
Filed Nov. 24, 1952, Serial No. 641,254. Published Oct. 27, 1953. Class 44.

584,881. Interlocking Rubber Floor Tile. Lewis Barry, Upper Darby, Pa.
Filed Jan. 26, 1953, Serial No. 641,264. Published Oct. 20, 1953. Class 12.

584,882. Canned Fruits and Canned Vegetables. Schucki & Co., Inc., sometimes doing business as Sunnyvale Packing Company, Sunnyvale, Calif.
Filed Jan. 26, 1953, Serial No. 641,332. Published Oct. 20, 1953. Class 46.

584,883. Sparkling Water; and Non-Alcoholic, Maltless Beverages Sold as Soft Drinks and Also Sold as Mixers. The Shasta Water Company, San Francisco, Calif.
Filed Jan. 26, 1953, Serial No. 641,337. Published Oct. 6, 1953. Class 45.

584,884. Shaving Lather. Van Brode Milling Co., Inc., Clinton, Mass.
Filed Jan. 26, 1953, Serial No. 641,354. Published Oct. 20, 1953. Class 51.

584,885. Shoes of Leather, or a Combination of Leather, Rubber, and Fabric for Men, Women, and Children; Also for Leather Insoles. Endicott Johnson Corporation, Endicott, N. Y.
Filed Jan. 27, 1953, Serial No. 641,373. Published Oct. 6, 1953. Class 39.

584,886. Grooved Phonograph Records and Record Blanks. Electric & Musical Industries Limited, Hayes, England.
Filed Jan. 28, 1953, Serial No. 641,443. Published Oct. 13, 1953. Class 36.

584,887. Cleaner-Sanitizer for Use by Poultrymen in Cleaning Eggs. Apothecaries Hall Company, Waterbury, Conn.
Filed Feb. 3, 1953, Serial No. 641,662. Published Oct. 20, 1953. Class 52.

584,888. The Following Articles of Wearing Apparel for Use by Men, Women, and Children: Work Pants, Work Shirts, Etc. Sam Shainberg Dry Goods Company, Memphis, Tenn.
Filed Feb. 9, 1953, Serial No. 641,976. Published Oct. 27, 1953. Class 39.

584,889. Household Scissors and Household Shears. Federated Department Stores, Inc., Cincinnati, Ohio.
Filed Feb. 10, 1953, Serial No. 642,028. Published Sept. 15, 1953. Class 23.

584,890. Putty Knives and Scrapers. Hyde Manufacturing Company, Southbridge, Mass.
Filed Feb. 13, 1953, Serial No. 642,225. Published Sept. 15, 1953 Class 23.

584,891. News Letter or House Organ Published Periodically. Koodin-Lapow Associates, New York, N. Y.
Filed Feb. 9, 1953, Serial No. 642,251. Published Oct. 13, 1953. Class 38.

584,892. Growing Earth Sold in Containers. Wheeler the Dirt Farmer, Seattle, Wash.
Filed Feb. 16, 1953, Serial No. 642,333. Published Oct. 20, 1953. Class 1.

584,893. China Tableware. Palmeter's Limited, Kentville, Nova Scotia, Canada.
Priority under Sec. 44(d). Canadian Registration No. N. S. 168/42907, filed Aug. 20, 1952.
Filed Feb. 17, 1953, Serial No. 642,366. Published Aug. 18, 1953. Class 30.

584,894. Skirts, Culottes, Jackets, Caps, Suits, Capes, Coats, Vests, Shorts, Blouses, Slacks, Pedal Pushers, and Dresses. College Town Sportswear, Boston, Mass.
Filed Feb. 20, 1953, Serial No. 642,524. Published Oct. 6, 1953. Class 39.

584,895. Hand-Operated Pump Type Sprayers, and Parts Therefor. The E. C. Brown Co., Canandaigua, N. Y.
Filed Feb. 24, 1953, Serial No. 642,612. Published Sept. 15, 1953. Class 23.

584,896. Hosiery for Men, Women, and Children. Melrose Hosiery Mills, Inc., High Point, N. C., assignee of Granite Hosiery Mills.
Filed Feb. 24, 1953, Serial No. 642,635. Published Oct. 27, 1953. Class 39.

584,897. Sick Call Set for Priests, Containing Crucifix, Ablution Cup, Vigil Lights, and Holy Water Container. Leslie A. Calhoun, Minneapolis, Minn.
Filed Feb. 26, 1953, Serial No. 642,800. Published Oct. 20, 1953. Class 50.

584,898. Floor Mops. Corcoran Mfg. Co., Long Beach, Calif.
Filed Mar. 2, 1953, Serial No. 642,951. Published Oct. 27, 1953. Class 29.

584,899. Eviscerated Oven-Ready Stuffed and Unstuffed Turkeys. Frederick C. Adams, doing business under the name of Wild Acres Turkey Farm, Steep Falls, Maine.
Filed Mar. 6, 1953, Serial No. 643,259. Published Oct. 20, 1953. Class 46.

584,900. Hand-Operated Pump Type Sprayers and Parts Therefor. The E. C. Brown Co., Canandaigua, N. Y.
Filed Mar. 9, 1953, Serial No. 643,283. Published Sept. 15, 1953. Class 23.

584,901. Chili Powder. Chili Products Corporation Ltd., Los Angeles, Calif.
Filed Mar. 16, 1953, Serial No. 643,647. Published Oct. 20, 1953. Class 46.

584,902. Magazine Published Monthly. Dell Publishing Company, Inc., New York, N. Y.
Filed Mar. 19, 1953, Serial No. 643,897. Published Oct. 13, 1953. Class 38.

584,903. Storage Batteries. Globe-Union Inc., Milwaukee, Wis.
Filed Mar. 20, 1953, Serial No. 643,952. Published Oct. 20, 1953. Class 21.

584,904. Fishing Tackle Catalogue Published Annually. Oakes Consumer Catalogs, Chicago, Ill.
Filed Mar. 20, 1953, Serial No. 643,973. Published Oct. 13, 1953. Class 38.

584,905. Aluminum Cleaning and Brightening Compound. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Mar. 20, 1953, Serial No. 643,993. Published Oct. 20, 1953. Class 52.

584,906. Accordions. Vincent Castiglione, doing business as Castiglione Accordion Company, Detroit, Mich.
Filed Mar. 23, 1953, Serial No. 644,011. Published Oct. 27, 1953. Class 36.

584,907. Newspaper and Magazine Feature. The Register and Tribune Company, Des Moines, Iowa.
Filed Mar. 23, 1953, Serial No. 644,064. Published Oct. 13, 1953. Class 38.

584,908. Infants' and Toddlers' Coats and Coat Sets. Ricky Craft Originals, Philadelphia, Pa.
Filed Mar. 23, 1953, Serial No. 644,066. Published Oct. 27, 1953. Class 39.

584,909. Women's, Misses', Children's, Infants', and Babies' Shoes. J. Edwards & Co., Philadelphia, Pa., assignor to J. Edwards & Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania.
Filed Mar. 24, 1953, Serial No. 644,104. Published Oct. 6, 1953. Class 39.

584,910. Shoes Made of Leather, Fabric, or Rubber or Combination of Such Materials, for Men and Young Men. London Character Shoes Corporation, New York, N. Y.
Filed Mar. 24, 1953, Serial No. 644,125. Published Oct. 6, 1953. Class 39.

584,911. Condensers Used in Conjunction With All Types of Electronic Equipment. Electronic Fabricators, Inc., New York, N. Y.
Filed Mar. 26, 1953, Serial No. 644,226. Published Oct. 20, 1953. Class 21.

584,912. Grooved Phonograph Records. Ace-Hi Records, Inc., Los Angeles and Beverly Hills, Calif.
Filed Mar. 27, 1953, Serial No. 644,271. Published Oct. 27, 1953. Class 36.

584,913. Clock Radios. Bulova Watch Company, Inc., New York, N. Y.
Filed Mar. 27, 1953, Serial No. 644,277. Published Oct. 20, 1953. Class 21.

584,914. Protective Covering of Sheet Material With Eye Holes for Covering the Face After the Application of Cosmetics, as When Slipping a Garment Over the Head of the User. I. B. Kleinert Rubber Company, New York, N. Y.
Filed Mar. 27, 1953, Serial No. 644,324. Published Oct. 27, 1953. Class 39.

584,915. Stud Driving and Removing Tools. Mid-West Tool Company, Grand Rapids, Mich.
Filed Mar. 27, 1953, Serial No. 644,331. Published Sept. 15, 1953. Class 23.

584,916. Laundry Washing Compound. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Mar. 27, 1953, Serial No. 644,370. Published Oct. 20, 1953. Class 52.

584,917. Hunting Boots for Men, Women, and Children. Belleville Shoe Manufacturing Company, Belleville, Ill.
Filed Mar. 30, 1953, Serial No. 644,383. Published Oct. 6, 1953. Class 39.

584,918. Chocolate Candy. Brock & Company, Inc., Philadelphia, Pa.
Filed Mar. 31, 1953, Serial No. 644,493. Published Oct. 20, 1953. Class 46.

584,919. Illustrated Magazine. Atlantis, Inc., New York, N. Y.
Filed Apr. 1, 1953, Serial No. 644,534. Published Oct. 13, 1953. Class 38.

584,920. Resinous Surfacing Material for Rendering Floors Conductive of Electricity. Venus Chemical Company, Inc., New York, N. Y.
Filed Apr. 1, 1953, Serial No. 644,579. Published Oct. 20, 1953. Class 21.

584,921. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Apr. 2, 1953, Serial No. 644,613. Published Oct. 27, 1953. Class 28.

584,922. Fire Alarms of a Type Containing an Explosive Element and a Firing Pin Which Is Released in Response to a Predetermined Temperature. Frank Industries, Inc., Eau Claire, Wis.
Filed Apr. 3, 1953, Serial No. 644,669. Published Oct. 27, 1953. Class 9.

584,923. Fresh Citrus Fruits. Saticoy Lemon Association, Saticoy, Calif.
Filed Apr. 6, 1953, Serial No. 644,791. Published Oct. 20, 1953. Class 46.

584,924. Fresh Citrus Fruits. Saticoy Lemon Association, Saticoy, Calif.
Filed Apr. 6, 1953, Serial No. 644,793. Published Oct. 20, 1953. Class 46.

584,925. Perfume and Eau de Parfum. Helena Rubinstein, Inc., New York, N. Y.
Filed Apr. 7, 1953, Serial No. 644,872. Published Oct. 6, 1953. Class 51.

584,926. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Apr. 8, 1953, Serial No. 644,908. Published Oct. 27, 1953. Class 28.

584,927. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Apr. 8, 1953, Serial No. 644,909. Published Oct. 27, 1953. Class 28.

584,928. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Apr. 8, 1953, Serial No. 644,910. Published Oct. 27, 1953. Class 28.

584,929. Shoes, for Women and Children, Made of Leather, Fabric, and Combinations Thereof. General Shoe Corporation, Nashville, Tenn.
Filed Apr. 9, 1953, Serial No. 644,979. Published Oct. 6, 1953. Class 39.

584,930. Candy. Schwartz Candies Inc., New York, N. Y.
Filed Apr. 14, 1953, Serial No. 645,264. Published Sept. 29, 1953. Class 46.

584,931. Perfume, Cologne, and Cologne Stick. Bourjois, Inc., New York, N. Y.
Filed Apr. 16, 1953, Serial No. 645,384. Published Oct. 6, 1953. Class 51.

584,932. Mechanically Grooved Phonograph Records. Seven-Eleven Records, Inc., Beverly Hills, Calif.
Filed Apr. 16, 1953, Serial No. 645,436. Published Oct. 20, 1953. Class 36.

584,933. Ladies' Coats and Suits. Louis Walter & Co., Inc., Kansas City, Mo.
Filed Apr. 16, 1953, Serial No. 645,454. Published Oct. 27, 1953. Class 39.

584,934. Ladies' and Misses' Coats. Whitley Tailleurs Inc., New York, N. Y.
Filed Apr. 16, 1953, Serial No. 645,455. Published Oct. 27, 1953. Class 39.

584,935. Men's, Women's, and Children's Shoes of Leather, Fabric, and/or Combinations Thereof. International Shoe Company, St. Louis, Mo.
Filed Apr. 20, 1953, Serial No. 645,572. Published Oct. 27, 1953. Class 39.

584,936. Children's Slippers. Little Ones Footwear Inc., New York, N. Y.
Filed Apr. 21, 1953, Serial No. 645,654. Published Oct. 27, 1953. Class 39.

584,937. Men's, Women's, and Children's Shoes and Shoe Soles. Roland E. Plummer, Huntington, N. Y.
Filed Apr. 21, 1953, Serial No. 645,666. Published Oct. 27, 1953. Class 39.

584,938. Women's, Misses', and Children's Shoes and Slippers of Leather, Rubber, Fabric, and Combinations Thereof. Saks & Company, New York, N. Y.
Filed Apr. 21, 1953, Serial No. 645,674. Published Oct. 27, 1953. Class 39.

584,939. Ladies' and Misses' Outerwear—Namely, Coats, Suits, Jackets, and Skirts. The House of Swansdown, Inc., New York, N. Y.
Filed Apr. 22, 1953, Serial No. 645,710. Published Oct. 27, 1953. Class 39.

584,940. Catalogues Published Annually. Supplee-Biddle-Steltz Company, Philadelphia, Pa.
Filed Apr. 22, 1953, Serial No. 645,744. Published Oct. 13, 1953. Class 38.

584,941. Accordions. Excelsior Accordions, Inc., New York, N. Y.
Filed Apr. 23, 1953, Serial No. 645,789. Published Oct. 20, 1953. Class 36.

584,942. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Apr. 23, 1953, Serial No. 645,798. Published Oct. 27, 1953. Class 28.

584,943. Synthetic Resinous Materials in Solid and Liquid Form Used in Formulating, Molding, Coating, Impregnating, and Related Arts. American Plastics Corporation, New York, N. Y.
Filed Apr. 27, 1953, Serial No. 645,942. Published Oct. 20, 1953. Class 6.

584,944. Hair Dressing and Conditioner. Lucky Tiger Manufacturing Co., Kansas City, Mo.
Filed Apr. 27, 1953, Serial No. 645,997. Published Oct. 6, 1953. Class 51.

584,945. Grooved Phonograph Records. Columbia Records Inc., Bridgeport, Conn.
Filed Apr. 29, 1953, Serial No. 646,111. Published Oct. 20, 1953. Class 36.

584,946. Mechanically Grooved Phonograph Records. Prom Record Co., Newark, N. J.
Filed Apr. 30, 1953, Serial No. 646,232. Published Oct. 20, 1953. Class 36.

584,947. Women's Shoes. Joyce, Inc., Pasadena, Calif.
Filed May 4, 1953, Serial No. 646,399. Published Oct. 27, 1953. Class 39.

584,948. Shoes of Leather, or a Combination of Leather, Rubber, or Fabric, for Women and Misses. Johnson, Stephens and Shinkle Shoe Company, St. Louis, Mo.
Filed May 4, 1953, Serial No. 646,447. Published Oct. 27, 1953. Class 39.

584,949. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed May 6, 1953, Serial No. 646,544. Published Oct. 27, 1953. Class 28.

584,950. Soil Conditioners. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif.
Filed May 7, 1953, Serial No. 646,599. Published Oct. 27, 1953. Class 10.

584,951. Women's Shoes. Deb Shoe Company, Inc., St. Louis, Mo.
Filed May 7, 1953, Serial No. 646,605. Published Oct. 27, 1953. Class 39.

584,952. Women's Shoes. Deb Shoe Company, Inc., St. Louis, Mo.
Filed May 7, 1953, Serial No. 646,606. Published Oct. 27, 1953. Class 39.

584,953. Infants' Training Pants. The Atlas Underwear Company, Piqua, Ohio.
Filed May 8, 1953, Serial No. 646,645. Published Oct. 27, 1953. Class 39.

584,954. Mechanically Grooved Phonograph Records. Don Large Enterprises Inc., Detroit, Mich.
Filed May 11, 1953, Serial No. 646,779. Published Oct. 20, 1953. Class 36.

584,955. Phonographs and Parts Thereof. Columbia Broadcasting System, Inc., New York, N. Y.
Filed May 12, 1953, Serial No. 646,850. Published Oct. 20, 1953. Class 36.

584,956. Men's, Ladies', and Children's Socks and Stockings. Morris Kahn, doing business as Camay Hosiery Mills, Newark, N. J.
Filed May 12, 1953, Serial No. 646,874. Published Oct. 27, 1953. Class 39.

584,957. Truck and Trailer Bodies. Keystone Trailer & Equipment Co., Inc., Kansas City, Mo.
Filed May 18, 1953, Serial No. 647,196. Published Sept. 29, 1953. Class 19.

584,958. Hand Trucks. Terminal Metal Products Corporation, Brooklyn, N. Y.
Filed May 25, 1953, Serial No. 647,666. Published Sept. 29, 1953. Class 19.

584,959. Frozen Headless Shrimp. Edmond Martin, Jr., doing business as Ed Martin Seafood Co., Westwego, La.
Filed May 27, 1953, Serial No. 647,790. Published Oct. 20, 1953. Class 46.

584,960. Canned Fish and Packaged Frozen Fish. Davis Bros. Fisheries Co. Inc., doing business as Magellan Company, Gloucester, Mass.
Filed May 19, 1953, Serial No. 647,976. Published Sept. 29, 1953. Class 46.

584,961. Baby Strollers, Baby Carriages, Baby Coaches, and Children's Combination Walker-Strollers. Storkline Furniture Corporation, Chicago, Ill.
Filed Aug. 5, 1953, Serial No. 651,422. Published Oct. 27, 1953. Class 19.

Service Marks

584,962. Trade Association Services Rendered to Its Members, Etc. National Fisheries Institute, Inc., Wilmington, Del., and Washington, D. C.
Filed Oct. 26, 1949, Serial No. 586,872. Published Oct. 27, 1953. Class 100.

584,963. Binding of Books, Pamphlets, Catalogues, Magazines, Directories, Advertising Brochures, Legal Briefs, and Documents, and All Other Similar Forms of Publications. R. R. Donnelley & Sons Company, Chicago, Ill.
Filed July 20, 1950, Serial No. 600,950. Published Sept. 1, 1953. Class 106.

584,964. General Insurance Brokerage—Namely, Fire; Extended Coverage; Windstorm, Etc. Harold V. Maguire, Jamaica, N. Y.
Filed Aug. 2, 1950, Serial No. 601,635. Published Sept. 22, 1953. Class 102.

584,965. Underwriting of Insurance—Namely, Health Insurance, Hospital and Surgical Care Insurance, and Medical Services Insurance. Group Health Mutual Incorporated, St. Paul, Minn.
Filed Apr. 23, 1951, Serial No. 613,003. Published Oct. 7, 1952. Class 102.

584,966. Reaming of Foundation Holes for Foundation Footings. Dolen O. Talley, doing business as Bel-Toe Foundation Company, Houston, Tex.
Filed Oct. 22, 1951, Serial No. 620,297. Published Oct. 27, 1953. Class 103.

584,967. Chemical Treatment of Buildings and Wooden Structures With Toxic Chemicals for Preserving and Protecting Same Against Termites, Beetles, Decomposition, and General Deterioration. Hill-Smith Termite Control Co., Memphis, Tenn.
Filed July 23, 1952, Serial No. 632,936. Published Oct. 27, 1953. Class 103.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

584,968. (Class 51. Cosmetics and Toilet Preparations.) Extraction & Chemical Company Inc., New York, N. Y.
Filed Oct. 28, 1949, Serial No. 586,967.



The mark comprises the unique conformation of a bottle the upper portion of which is regularly convexly curved at one side of the center line of the bottle over an arc of the order of 90°, the said curved portion connecting with a cylindrical neck the axis of which extends at right angles to the principal axis of the bottle; the said neck, on the other side of the said axial line from the above mentioned convex curvature having a substantially circular opening in a plane normal to the base of the bottle, the upper portion of the bottle on that side being concavely recessed in a regular curve to meet the underside of the cylindrical neck at a point displaced inwardly toward the main axis of the bottle from said circular opening in the neck. The unique conformation of the bottle is in no respect functional but is solely for trade-mark purposes.
The stippling of the mark is to indicate shading only.
For Mouthwashes Used as Dentifrices.
Claims use since Feb. 2, 1893.

584,969. (Class 16. Protective and Decorative Coatings.) Peoria Paint Company, Inc., Peoria, Ill., assignee of Insecticide Paint Company. Original filed, act of 1946, Principal Register, Dec. 6, 1950; amended to application, Supplemental Register, Jan. 6, 1953, Serial No. 607,330.

Kill-Kote

For Insecticide Paint.
Claims use since Oct. 26, 1950.

584,970. (Class 26, Measuring and Scientific Appliances.) Robert Miles Sherman, New York, N. Y. Original filed, act of 1946, Principal Register, May 8, 1951; amended to application, Supplemental Register, Apr. 19, 1952, Serial No. 613,655.

ADVIS-A-GUIDE

For Calendar Chart Operating in the Manner of a Slide Rule Based Upon the Rhythm System and Used to Record and Interpret the Various Elements Utilized in Determining the Sterile and Fertile Periods of the Human Female.
Claims use since Mar. 7, 1950.

584,971. (Class 3, Baggage, Animal Equipments, Portfolios, and Pocketbooks.) Finnigans, Limited, London, England, and New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 28, 1951; amended to application, Supplemental Register, Oct. 12, 1953, Serial No. 618,159.

Finnigans

For Luggage and Leather Goods—Namely, Suitcases, Bottle Cases, Brief Cases, Attaché Cases, Jewel Cases, Stud Boxes, Wallets, Billfolds, French Purses, Handbags, Passport Cases, and Card Cases.
Claims use since November 1949.

584,972. (Class 16. Protective and Decorative Coatings.) Alumi-Gard Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Dec. 17, 1951; amended to application, Supplemental Register, Apr. 30, 1953, Serial No. 622,572.

ALUMI-GARD

For Ready-Mixed Paint Products—Namely, Paint, Lacquer, Varnish, Clear Coating for Aluminum, and Thinner for Use as an Ingredient of Paint.
Claims use since Oct. 25, 1951.

584,973. (Class 34. Heating, Lighting, and Ventilating Apparatus.) E. L. Schofield, Incorporated, Rockford, Ill.
Filed Jan. 4, 1952, Serial No. 623,211.

Schofield

For Fan Equipped, Fluid Heated Type, Air Heaters and Parts therefor.
Claims use since on or about Aug. 26, 1949.

584,974. (Class 34. Heating, Lighting, and Ventilating Apparatus.) E. L. Schofield, Incorporated, Rockford, Ill. Original filed, act of 1946, Principal Register, Jan. 4, 1952; amended to application, Supplemental Register, Aug. 11, 1953, Serial No. 623,213.



The vertical lines represent a red background for "Schofield," which appears in contrasting lettering.
For Fan Equipped, Fluid Heated Type, Air Heaters and Parts Therefor.
Claims use since on or about Aug. 26, 1949.

584,975. (Class 21. Electrical Apparatus, Machines, and Supplies.) Mullard Limited, London, England. Filed Feb. 1, 1952, Serial No. 624,416.

Mullard

Applicant claims ownership of British Registrations Nos. 539,051, dated Feb. 13, 1933, 602,429, dated Nov. 16, 1938; B669,335, 669,337 and B669,339, the last three dated May 7, 1948.
For Radio and Television Receivers; Communication, Industrial, Radio and Television Transmitting and Receiving Tubes; Photoelectric Tubes; Hearing Aid Tubes, Silica Power Tubes, Thyratrons, Power Rectifiers Tubes, Selective Audio Amplifiers, Projection Boxes Including Optical Systems for Projection Television Receiving Sets, Ultrasonic Soldering Irons, Ultrasonic Generators, Medium and H. F. Radio Transmitters, Ultra-High Frequency Radio Receivers and Transmitters; Permanent Magnets and Cor-Material for Transformers and Inductances; Bicycle Dynamo Lighting Sets.
Claims use since Feb. 12, 1948, in commerce between Great Britain and the United States.

584,976. (Class 29. Brooms, Brushes, and Dusters.) Blind-Eze Company, Otsego, Mich. Original filed, act of 1946, Principal Register, Mar. 1, 1952; amended to application, Supplemental Register, Aug. 18, 1953, Serial No. 625,785.

BLIND-EZE

For Hand Implements for Cleaning the Slats of Venetian Blinds, Each Comprising Two Pivoted Arms, With a Sponge at the End of Each Arm.
Claims use since on or about Dec. 3, 1951.

584,977. (Class 46. Foods and Ingredients of Foods.) Cardinal Food Products, Inc., St. Louis, Mo. Original filed, act of 1946, Principal Register, Mar. 18, 1952; amended to application, Supplemental Register, Nov. 3, 1953, Serial No. 626,604.

POINTER

For Canned Food for Dogs, Puppies, and Cats.
Claims use since Feb. 7, 1952.

584,978. (Class 12. Construction Materials.) Masonry Resurfacing & Construction Co., Inc., Baltimore, Md. Original filed, act of 1946, Principal Register, Mar. 28, 1952; amended to application, Supplemental Register, Mar. 25, 1953, Serial No. 627,205.



The lining and stippling is used to indicate shading.
For Portable Coffer-Dams.
Claims use since Mar. 21, 1952; and since May 12, 1951, as to "Dri-Por."

584,979. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Bucyrus-Erie Company, Wilmington, Del., and South Milwaukee, Wis. Filed Apr. 1, 1952, Serial No. 627,380.



The coloring usually consists of silver (or white) lettering on a black background. No claim is made to the coloring of the mark. The word "Crane" is disclaimed apart from the mark as shown.
For Power-Shovels, Drag-Shovels, Cranes, Clamshell Excavators, Dragline Excavators, Pile-Drivers, and Base

Machines (Comprising Revolving Upper and Non-Revolving Lower Works) for Selective Mounting of Various Types of Boom (Including Shovel Booms, Drag-Shovel Booms, Crane Booms, Pile-Driver Booms, and the Like), All of the Foregoing Being Characterized by Having a Rubber-Tired Wheel-Type Engine-Powered Mobile Lower Works.

Claims use since Aug. 10, 1949.

584,980. (Class 22. Games, Toys, and Sporting Goods.) Kermit V. Lysen, doing business as Lysen Industries, Bemidji, Minn. Original filed, act of 1946, Principal Register, Apr. 21, 1952; amended to application, Supplemental Register, Nov. 2, 1953, Serial No. 628,415.

MIN-O-SAV

For Fish Hooks With Bait Holders Attached and Bait Holders for Fish Hooks.

Claims use since Apr. 15, 1951.

584,981. (Class 21. Electrical Apparatus, Machines, and Supplies.) Health Guardian Corporation, Chicago, Ill., and Monroe, Wis. Original filed, act of 1946, Principal Register, June 11, 1952; amended to application, Supplemental Register, July 20, 1953, Serial No. 631,057.

Wet Alarm

For Electrical Signaling Device for Bed Wetting Consisting Essentially of Relatively Thin Flexible Metal Sheets and a Battery Operated Buzzer Adapted To Be Connected With Insulated Current Conducting Wire.

Claims use since Sept. 29, 1951.

584,982. (Class 52. Detergents and Soaps.) Gregg Products Co., Grand Rapids, Mich. Original filed, act of 1946, Principal Register, June 18, 1952; amended to application, Supplemental Register, Oct. 19, 1953, Serial No. 631,351.

SOAKUP

For Grease and Oil-Absorbent Cleaning Composition.

Claims use since Mar. 13, 1952.

584,983. (Class 21. Electrical Apparatus, Machines, and Supplies.) Independent Pneumatic Tool Company, Aurora, Ill., now by change of name Thor Power Tool Company. Original filed, act of 1946, Principal Register, July 17, 1952; amended to application, Supplemental Register, Nov. 2, 1953, Serial No. 632,672.

"PIX-UP"

For Electrically Actuated Portable Screwdrivers.

Claims use since April 1952.

584,984. (Class 28. Jewelry and Precious-Metal Ware.) Henry A La Pensée, Paris, France. Filed Aug. 1, 1952, Serial No. 633,369.

"PARIS COMES TO YOU"

Applicant claims ownership of Registration No. 568,663.

For Costume Jewelry (Non-Precious Metal)—Namely, Earrings; Rings; Bracelets; Pins; Jewelled Barrettes, Buttons, and Combs.

Claims use since Feb. 14, 1951.

584,985. (Class 52. Detergents and Soaps.) John Peter Edge Ltd., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 5, 1952; amended to application, Supplemental Register, July 23, 1953, Serial No. 633,492.

edge's QUICK BATH

For Lotion for the Relief of Dogs Suffering From Ticks, Fleas, and Lice, and for Cleansing Purposes.

Claims use since July 15, 1948.

584,986. (Class 22. Games, Toys, and Sporting Goods.) American Metal Specialties Corporation, Hatboro, Pa. Original filed, act of 1946, Principal Register, Aug. 29, 1952; amended to application, Supplemental Register, Feb. 25, 1953, Serial No. 634,625.

Sand-E-Playard

For Child's Toy for Retaining Sand.

Claims use since Dec. 18, 1951.

584,987. (Class 6. Chemicals and Chemical Compositions.) Aurora Products Corporation, Cleveland, Ohio. Filed Sept. 5, 1952, Serial No. 634,881.

SLAB DIP

For Composition for the Surface Treatment of Uncured Rubber Stocks to Remove Stickiness.

Claims use since on or about Feb. 20, 1946.

584,988. (Class 12. Construction Materials.) Colorado Springs Cast Stone Company, Colorado Springs, Colo. Original filed, act of 1946, Principal Register, Oct. 22, 1952; amended to application, Supplemental Register, Aug. 18, 1953, Serial No. 636,969.

coxBLox

For Cinder or Concrete Blocks.

Claims use since July 22, 1952.

584,989. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Rotary-Hoes Limited, East Horndon, Essex, England. Filed Oct. 23, 1952, Serial No. 637,088.

Howard

For Ploughs, Cultivators, Diggers, Harrows, and Hoes, All Being Agricultural Machines.

Claims use since July 18, 1938.

584,990. (Class 46. Foods and Ingredients of Foods.) Hawaiian Pineapple Company, Limited, doing business as Dole Sales Company, Honolulu, Hawaii, and San Francisco, Calif. Original filed, act of 1946, Principal Register, Nov. 4, 1952; amended to application, Supplemental Register, Nov. 2, 1953, Serial No. 637,585.

DOLE

Applicant claims ownership of Registrations Nos. 85,113, 264,021, and others.

For Canned Frozen Fresh Fruit and Canned Frozen Concentrated Fruit Juice.

Claims use since Sept. 15, 1952.

584,991. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Frank D. Mahoney, doing business under the firm name and style of Oil Marketing Equipment Co., San Francisco, Calif. Filed Nov. 28, 1952, Serial No. 638,730.

INNERLOCK

For Metal Hose Couplings.

Claims use since Oct. 19, 1951.

584,992. (Class 52. Detergents and Soaps.) Mapor Corporation, New Hyde Park, Long Island, and New York, N. Y., and elsewhere. Filed Nov. 26, 1952. Serial No. 638,937.

NO-FILM

For Cleanser for Automobiles, Floors, Walls, Furniture, Floor Coverings, and the Like.

Claims use since May 1, 1935.

584,993. (Class 22. Games, Toys, and Sporting Goods.) Edmund Beaver, Clifton, Tex. Original filed, act of 1946, Principal Register, Dec. 8, 1952; amended to application, Supplemental Register, Sept. 9, 1953, Serial No. 639,150.

TRAVEL GAMES

For Games Depicting Words and Objects for Identification and Tabulation by Persons While Travelling.

Claims use since June 1, 1950.

584,994. (Class 21. Electrical Apparatus, Machines, and Supplies.) Joseph V. Fisher, Pittsburgh, Pa., assignor to Fretco, Inc., Pittsburgh, Pa., a corporation of Pennsylvania. Original filed, act of 1946, Principal Register, Dec. 16, 1952; amended to application, Supplemental Register, Nov. 4, 1953, Serial No. 639,560.

FRET ARAY

For Antennas, Wire Transmission Lines, Transmitter and Receiver Sets, for Radio and Television.

Claims use since Aug. 21, 1951.

584,995. (Class 44. Dental, Medical, and Surgical Appliances.) Fairhope Fabrics, Inc., Fall River, Mass. Original filed, act of 1946, Principal Register, Jan. 2, 1953; amended to application, Supplemental Register, Nov. 3, 1953, Serial No. 640,265.

GROSS

For Bandages.

Claims use since Aug. 8, 1952.

584,996. (Class 21. Electrical Apparatus, Machines, and Supplies.) Homes, Incorporated, Knoxville, Tenn. Original filed, act of 1946, Principal Register, Jan. 6, 1953; amended to application, Supplemental Register, Oct. 19, 1953, Serial No. 640,401.

DRI-CEIL

Applicant claims ownership of Registration No. 547,647.

For Electric Radiant Heating Cables.

Claims use since on or about October 10, 1952.

584,997. (Class 51. Cosmetics and Toilet Preparations.) Texas Pharmacal Company, San Antonio, Tex. Original filed, act of 1946, Principal Register, Feb. 4, 1953; amended to application, Supplemental Register, Oct. 9, 1953, Serial No. 641,752.

SAF-TAN

For Protective Cream To Prevent Sunburn.

Claims use since Aug. 18, 1952.

584,998. (Class 4. Abrasives and Polishing Materials.) Lee Polish Mfg. Co. Inc., Brooklyn, N. Y. Filed Mar. 26, 1953, Serial No. 644,238.



Applicant claims ownership of Registration No. 300,327.

For Chrome Polish, Furniture Polish, Polish and Cleaner for Hard Surfaces, Metal Polish, a Rubbing Compound Used for Polishing Lacquered or Synthetic Surfaces,

a Glazing Wax for Cleaning and Polishing Hard Surfaces, a Polishing Wax for Automobiles and Furniture, a Glazing Wax for Cleaning and Polishing Caskets.

Claims use since July 1, 1925.

584,999. (Class 22. Games, Toys, and Sporting Goods.) Playtime Products, Inc., Warsaw, Ind. Original filed, act of 1946, Principal Register, Apr. 3, 1953; amended to application, Supplemental Register, Nov. 6, 1953, Serial No. 644,687.



For Doll Carriages.

Claims use since March 1947.

Service Mark

585,000. (Class 100. Miscellaneous.) National Safe Drivers Association, Washington, D. C. Original filed, act of 1946, Principal Register, May 12, 1952; amended to application, Supplemental Register, Sept. 15, 1953, Serial No. 631,389.



For Stimulating and Maintaining Interest in the Reduction of Pedestrian and Traffic Accidents Among Its Members Through a Program of Issuing and Disseminating Informational Publications, Sponsoring Conferences and Lectures With Respect to Safety Measures and Offering Awards for Accomplishment in the Field of Safety.

Claims use since February 1950.

TRADE-MARK REGISTRATIONS RENEWED

41,451. ROYAL ROCK. Registered Nov. 10, 1903. Clarinda Poultry, Butter & Egg Co., Clarinda, Iowa. Re-renewed Nov. 10, 1953, to Swift & Company, Chicago, Ill., a corporation of Illinois. Poultry. Class 46.

41,511. "CAR-FERRY" AND DESIGN. Registered Nov. 24, 1903. Theo. Schmidtman's Sons Company. Re-renewed Nov. 24, 1953, to Schmidtman Company, Manitowoc, Wis., a corporation of Wisconsin. Tablets, Composition-Books, Notebooks, Writing-Books, Spelling-Blanks, Etc. Class 37.

41,720. "PINE-APPLE" AND REPRESENTATION OF PINEAPPLE. Registered Dec. 22, 1903. J. C. Hutton. Re-renewed Dec. 22, 1953, to J. C. Hutton Proprietary Limited, Melbourne, Victoria, Australia, a corporation incorporated under the laws of Australia. Cured Meats, Including Hams, Bacon, and Sausages. Class 46.

42,124. CALCIDIN. Registered Feb. 23, 1904. The Abbott Alkaloidal Co., Chicago, Ill. Re-renewed Feb. 23, 1954, to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois. Remedies for the Cure or Alleviation of Croup and Other Non-Specific Exudative Diseases. Class 18.

89,632. PEDRO DOMECQ. Registered Dec. 31, 1912. Pedro Domecq. Re-renewed Dec. 31, 1952, to Pedro Domecq, S. A., Jerez de la Frontera, Spain, a corporation organized under the laws of National Spain. Brandies. Class 49.

89,738. PICTURE OF THREE VINES. Registered Jan. 7, 1913. Pedro Domecq. Re-renewed Jan. 7, 1953, to Pedro Domecq, S. A., Jerez de la Frontera, Spain, a corporation organized under the laws of National Spain. Brandies, Cognac Style. Class 49.

89,739. REPRESENTATION OF TWO VINES. Registered Jan. 7, 1913. Pedro Domecq. Re-renewed Jan. 7, 1953, to Pedro Domecq, S. A., Jerez de la Frontera, Spain, a corporation organized under the laws of National Spain. Brandies, Cognac Style. Class 49.

89,740. REPRESENTATION OF VINE. Registered Jan. 7, 1913. Pedro Domecq. Re-renewed Jan. 7, 1953, to Pedro Domecq, S. A., Jerez de la Frontera, Spain, a corporation organized under the laws of National Spain. Brandies, Cognac Style. Class 49.

91,948. REPRESENTATION OF THREE POINTED STAR. Registered June 10, 1913. Daimler-Motoren-Gesellschaft, Unterturkheim, near Stuttgart, Germany. Re-renewed June 10, 1953, to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany, a corporation organized under the laws of Germany. Picture-Frames, Mirror, Bedsteads, Boot and Shoe Stands, Etc. Class 32.

91,949. REPRESENTATION OF THREE POINTED STAR. Registered June 10, 1913. Daimler-Motoren-Gesellschaft, Unterturkheim, near Stuttgart, Germany. Re-renewed June 10, 1953, to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany, a corporation organized under the laws of Germany. Soldering-Lamps, Hot-Water Foot-Warmers, Foot-Warmers, Etc. Class 34.

93,765. "BANNER" AND DESIGN. Registered Oct. 14, 1913. Simpson Spring Company, Easton, Mass. Re-renewed Oct. 14, 1953, to Simpson Spring Company, South Easton, Mass., a corporation of Massachusetts. Carbonated Flavored Non-Alcoholic Drinks. Class 45.

93,785. "WATERMAN'S IDEAL INK" AND DESIGN LINED FOR RED. Registered Oct. 14, 1913. L. E. Waterman Co., New York, N. Y. Re-renewed Oct. 14, 1953, to Waterman Pen Company, Inc., Seymour, Conn., a corporation of New York. Ink. Class 11.

93,887. MONK & GLASS. Registered Oct. 21, 1913. Monkhouse and Glasscock Limited, Bermondsey, London, England. Re-renewed Oct. 21, 1953, to Monkhouse & Glasscock Limited, London, England, a company registered under the laws of Great Britain. Food Jellies, Blanc-Mange and Custard Powders, and Fruit Powders. Class 46.

93,941. REPRESENTATION OF BASE-BALL WITH WINGS. Registered Oct. 21, 1913. Victor Sporting Goods Company, Springfield, Mass. Re-renewed Oct. 21, 1953, to A. G. Spalding & Bros. Inc., Chicopee, Mass., a corporation of Delaware. Implements, Apparatus, Goods, and Clothing Used in Athletic Games and Sports, Etc. Class 22.

94,643. IMPERIAL. Registered Dec. 23, 1913. Imperial Typewriter Co. Limited, North Evington, Leicester, England. Re-renewed Dec. 23, 1953, to Imperial Typewriter Company Limited, Leicester, England, a company incorporated under the laws of Great Britain. Type-Writers. Class 23.

94,825. PERMUTIT. Registered Jan. 6, 1914. The Permutit Company, New York, N. Y., a corporation of Delaware. Re-renewed Jan. 6, 1954. Water Purifying and Treating Materials. Class 6.

95,010. "JACK RABBIT" AND DESIGN. Registered Jan. 20, 1914. M. Phillips & Sons, New York, N. Y. Re-renewed Jan. 20, 1954, to L. C. King Manufacturing Co., Bristol, Tenn., a corporation of Tennessee. Dress, Negligée, and Work Shirts, Night-Shirts, Pajamas, and Boys' Blouses. Class 39.

95,352. RUSCO. Registered Feb. 10, 1914. The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut. Re-renewed Feb. 10, 1954. Brake-Lining for Automobile-Brakes. Class 35.

95,516. "ROCK OF AGES" WITHIN CIRCLE DESIGN. Registered Feb. 24, 1914. Boutwell, Milne & Varnum Co. Re-renewed Feb. 24, 1954, to Rock of Ages Corporation, Barre, Vt., a corporation of Vermont. Granite Blocks and Monumental Stones. Class 12.

95,863. FORT ORANGE. Registered Mar. 24, 1914. Barber & Bennett. Re-renewed Mar. 24, 1954, to Barber & Bennett, Inc., Albany, N. Y., a corporation of New York. Rye, Wheat, and Buckwheat Flour. Class 46.

95,956. CHICGRAIN. Registered Mar. 24, 1914. Spratt's Patent (America) Limited, London, England, and Newark, N. J. Re-renewed Mar. 24, 1954, to Spratt's Patent (America) Limited, London, England, a corporation organized under the laws of the Kingdom of Great Britain. A Food Preparation for Poultry and Other Animals. Class 46.

95,957. FIBO. Registered Mar. 24, 1914. Spratt's Patent (America) Limited, London, England, and Newark, N. J. Re-renewed Mar. 24, 1954, to Spratt's Patent (America) Limited, London, England, a corporation organized under the laws of the Kingdom of Great Britain. A Food Preparation for Dogs, Cats, Poultry, and Other Animals. Class 46.

95,999. DIAMOND. Registered Mar. 31, 1914. Diamond Expansion Bolt Co., New York, N. Y. Re-renewed Mar. 31, 1954, to Diamond Expansion Bolt Co., Inc., Garwood, N. J., a corporation of New Jersey. Expansion-Shields, Screws, Expansion-Bolts, Screw-Anchors, Toggle-Bolts, Etc. Class 13.

302,119. WHITE ROSE. Registered Mar. 28, 1933. K B Beverage Company. Renewed Mar. 28, 1953, to Bay City Milling & Grocery Co., Bay City, Mich., a firm. Malt Beverages Containing Less Than One-Half (½) of One Per Cent (1%) of Alcohol by Volume. Class 48.

302,120. BIG MASTER. Registered Mar. 28, 1933. K B Beverage Company. Renewed Mar. 28, 1953, to Bay City Milling & Grocery Co., Bay City, Mich., a firm. Malt Beverages Containing Less Than One-Half (½) of One Per Cent (1%) of Alcohol by Volume. Class 48.

302,338. TRUEWORTH. Registered Apr. 11, 1933. K B Beverage Company. Renewed Apr. 11, 1953, to Bay City Milling & Grocery Co., Bay City, Mich., a firm. Malt Beverages Containing Less Than One-Half (½) of One Per Cent (1%) of Alcohol by Volume. Class 48.

303,902. FELIX. Registered June 13, 1933. B. W. Doyle, doing business as Doyle Packing Company. Renewed June 13, 1953, to Doyle Packing Company, Los Angeles, Calif., a copartnership. Canned Cat Food. Class 46.

304,624. "VERNALIN" AND DESIGN. Registered July 11, 1933. Manuel S. Lehrfeld. Renewed July 11, 1953, to Richard N. Lehrfeld, Philadelphia, Pa. Medicinal Preparation for the Treatment of Hay Fever. Class 18.

304,628. "OVIEDO" ETC. AND DESIGN. Registered July 11, 1933. Hijos de Francisco Serrano, Oviedo, Spain, a Spanish firm. Renewed July 11, 1953. Anisette. Class 49.

304,630. "ANIS ASTURIANA" ETC. AND DESIGN. Registered July 11, 1933. Hijos de Francisco Serrano, Oviedo, Spain, a Spanish firm. Renewed July 11, 1953. Anised Brandies and Liquors. Class 49.

304,693. "HARVEY'S" ETC. AND DESIGN. Registered July 18, 1933. John & Robt. Harvey & Company Limited, Glasgow, Scotland, a limited liability company registered under the laws of Great Britain. Renewed July 18, 1953. Whisky. Class 49.

304,705. "FIRE CHIEF" AND DESIGN. Registered July 18, 1933. Louis Marx & Company, Inc., also known as Louis Marx & Company, New York, N. Y., a corporation of New York. Renewed July 18, 1953. Roller Skates. Class 22.

306,117. "HOLSTEN" ETC. AND DESIGN. Registered Sept. 5, 1933. Holsten-Brauerei, Altona, Germany. Renewed Sept. 5, 1953, to Holsten-Brauerei, Hamburg-Altona, Germany, a corporation organized under the laws of Germany. Malt Beverages With Not More Than the Legal Alcoholic Content. Class 48.

306,917. "KEY'S" AND REPRESENTATION OF KEY. Registered Oct. 3, 1933. Key's Chile Parlor, Jacksonville, Fla., a partnership. Renewed Oct. 3, 1953. Canned Chile Concarne and Mexican Chile. Class 46.

307,005. "REFINED CAMPHOR" ETC. AND DESIGN. Registered Oct. 10, 1933. Nippon Shono Kabushiki-Kaisha, Kobe, Japan, a company of Japan. Renewed Oct. 10, 1953. Camphor and Camphor Oil. Class 18.

307,019. ARANGEA. Registered Oct. 10, 1933. Parfumerie Roger & Gallet, Société Anonyme, doing business as Roger & Gallet, Paris, France. Renewed Oct. 10, 1953, to Roger & Gallet, New York, N. Y., a corporation of New York. Toilet Soaps. Class 52.

307,039. "CHATEAU" AND DESIGN. Registered Oct. 10, 1933. New England Confectionery Company, Cambridge, Mass., a corporation of Massachusetts. Renewed Oct. 10, 1953. Candy. Class 46.

307,405. ARANGEA. Registered Oct. 24, 1933. Parfumerie Roger et Gallet, Societe Anonyme, doing business as Roger & Gallet, Paris, France. Renewed Oct. 24, 1953, to Roger & Gallet, New York, N. Y., a corporation of New York. Pastes and Powders for Beautifying and Preserving the Teeth, Skin, and Hair, and Perfumery. Class 51.

307,759. "TW" WITHIN CIRCLE DESIGN. Registered Oct. 31, 1933. Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a corporation of New Jersey. Renewed Oct. 31, 1953. Carbon and Alloy Steels Particularly Manganese Steel in Cast, Forged, and Rolled Form. Class 14.

308,016. "FOOT-JOY" ETC. Registered Nov. 14, 1933. Field and Flint Co., Brockton, Mass., a corporation of Massachusetts. Renewed Nov. 14, 1953. Boots and Shoes Made of Leather and Combinations of Leather and Fabric. Class 39.

308,362. DYNAMIC. Registered Dec. 5, 1933. The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut. Renewed Dec. 5, 1953. Molded, Semimolded, and Woven Brake Linings. Class 35.

308,480. WIZARD. Registered Dec. 5, 1933. Wizard, Inc., Chicago, Ill. Renewed Dec. 5, 1953, to Boyle-Midway Inc., New York, N. Y., a corporation of Delaware. Top Dressing and Metal Polish. Class 4.

308,505. DED. Registered Dec. 5, 1933. Midway Chemical Co., Chicago, Ill. Renewed Dec .5, 1953, to Boyle-Midway Inc., New York, N. Y., a corporation of Delaware. Medicinally Treated Compounds Used as Insect and Rodent Exterminators. Class 6.

308,532. RICHELIEU. Registered Dec. 5, 1933. Joseph H. Meyer Brothers. Renewed Dec. 5, 1953, to The Richelieu Corporation, New York, N. Y., a corporation of New York. Perfumery, Toilet Water, Face Powder, Bath Powder. Class 51.

308,618. "BIG BUCK" AND DESIGN. Registered Dec. 12, 1933. The Mauser Mill Company, Treichlers, Pa., a corporation of Pennsylvania. Renewed Dec. 12, 1953. High Gluten Flour. Class 46.

308,864. KALODERMA. Registered Dec. 26, 1933. Karlsruher Parfumerie- und Toiletteseifenfabrik F. Wolff & Sohn, Gesellschaft mit beschränkter Haftung, Karlsruhe, Baden, Germany, a corporation organized under the laws of Germany. Renewed Dec. 26, 1953. Toilet Preparations—Namely, Glycerine and Honey Jelly, Face Powder, Talcum Powder, Etc. Class 51.

308,870. DWIN. Registered Dec. 26, 1933. Henry Ward Baldwin, doing business as Baldwin Laboratories, Saegerstown, Pa. Renewed Dec. 26, 1953, to Boyle-Midway Inc., New York, N. Y., a corporation of Delaware. Preparation for Removing Ink, Insecticide for Domestic Use, and Insecticide for Use as a Cattle Spray. Class 52.

308,873. M. W. SARGEANT. Registered Dec. 26, 1933. Sargeant Acnoid Pharmaceutical Co., Inc., East Orange, N. J. Renewed Dec. 26, 1953, to Sargeant Acnoid Pharmaceutical Co., Inc., Highland Mills, N. Y., a corporation of New York. Bath Salts, Bleaching Compounds for Human Application, Etc. Class 51.

309,041. CRUSADER. Registered Dec. 26, 1933. Hartwell Brothers, Memphis, Tenn., a corporation of Illinois. Renewed Dec. 26, 1953. Handles for Tools. Class 23.

309,333. FIBO-BILT. Registered Jan. 9, 1934. Badger Carton Company. Renewed Jan. 9, 1954, to Wells Badger Corporation, Milwaukee, Wis., a Wisconsin corporation. Paperboard Set-Up Toys. Class 22.

309,395. "CAL-MAX" AND DESIGN LINED FOR GREEN. Registered Jan. 9, 1934. Ash Grove Lime & Portland Cement Company. Renewed Jan. 9, 1954, to Ash Grove Lime & Portland Cement Company, Kansas City, Mo., a corporation of Delaware. Chemical Lime for Water Softening, Saponification in Soap Manufacture, Etc. Class 6.

309,855. "OSCEOLA" ETC. AND DESIGN. Registered Feb. 6, 1934. Chitty & Co., Jacksonville, Fla., a corporation of Florida. Renewed Feb. 6, 1954. Coffee, Canned Vegetables, Canned Fruits, Etc. Class 46.

309,856. "OVER-SEA" AND DESIGN. Registered Feb. 6, 1934. Chitty & Co., Jacksonville, Fla., a corporation of Florida. Renewed Feb. 6, 1954. Canned Vegetables, Canned Sauerkraut, Canned Apple Sauce, Etc. Class 46.

310,297. TIGRESS. Registered Feb. 20, 1934. Compañia Primer Molino Arrocero de Cuba, S. A., Habana, Cuba, a corporation organized under the laws of the Republic of Cuba. Renewed Feb. 20, 1954. Rice. Class 46.

310,371. EVENING IN PARIS. Registered Feb. 20, 1934. Bourjois, Inc., New York, N. Y., a corporation of New York. Renewed Feb. 20, 1954. Toilet Soap. Class 52.

310,500. "BOOSTER" AND DESIGN. Registered Feb. 27, 1934. Windsor-Lloyd Products, Inc., doing business as Booster Chemical & Engineering Co., Baltimore, Md., and Wilmington, Del. Renewed Feb. 27, 1954, to Windsor-Lloyd Products, Inc., Philadelphia, Pa., a corporation of Delaware. Adhesive Running Board Covering Cement. Class 5.

310,540. LAIRD'S. Registered Feb. 27, 1934. Laird & Company, Scobeyville and Eatontown, N. J. Renewed Feb. 27, 1954, to Laird & Company, Scobeyville, N. J., a corporation of New Jersey. Brandy. Class 49.

310,719. "FEEDWELL" AND DESIGN. Registered Mar. 6, 1934. Atlas Canning Company, Inc., Brooklyn, N. Y. Renewed Mar. 6, 1954, to Atlas Canning Company, Inc., Glendale, N. Y., a corporation of New York. Canned Food for Dogs, Cats, and Carnivorous Animals. Class 46.

310,903. BATES. Registered Mar. 13, 1934. The Bates Manufacturing Company, West Orange, N. J. Renewed Mar. 13, 1954, to The Bates Manufacturing Company, Orange, N. J., a corporation of New Jersey. Paper Fastening Devices and Paper Fasteners—Namely, Stapling Machines. Class 23.

310,989. SALIHEXIN. Registered Mar. 13, 1934. Abbott Laboratories, North Chicago, Ill., a corporation of Illinois. Renewed Mar. 13, 1954. Antirheumatic and Antipyretic Compound. Class 18.

311,056. "APPLE JUG" AND DESIGN. Registered Mar. 13, 1934. Laird & Company, Scobeyville and Eatontown, N. J. Renewed Mar. 13, 1954, to Laird & Company, Scobeyville, N. J., a corporation of New Jersey. Brandy. Class 49.

311,152. BZB. Registered Mar. 13, 1934. H. H. Schumacher, doing business as B-Z-B Honey Company, Alhambra, Calif. Renewed Mar. 13, 1954. Honey. Class 46.

311,177. "JERSEY LIGHTNIN" AND DESIGN. Registered Mar. 13, 1934. Laird & Company, Scobeyville and Eatontown, N. J. Renewed Mar. 13, 1954, to Laird & Company, Scobeyville, N. J., a corporation of New Jersey. Brandy. Class 49.

311,181. COLTS NECK. Registered Mar. 13, 1934. Laird & Company, Scobeyville and Eatontown, N. J. Renewed Mar. 13, 1954, to Laird & Company, Scobeyville, N. J., a corporation of New Jersey. Brandy. Class 49.

311,217. UNCLE BOB'S. Registered Mar. 20, 1934. Laird & Company, Scobeyville and Eatontown, N. J. Renewed Mar. 20, 1954, to Laird & Company, Scobeyville, N. J., a corporation of New Jersey. Brandy. Class 49.

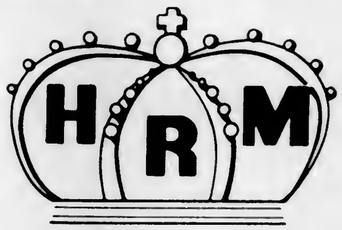
311,418. "WALLA WALLA VALLEY" AND DESIGN. Registered Mar. 20, 1934. Walla Walla Canning Company, Walla Walla, Wash., a corporation of Washington. Renewed Mar. 20, 1954. Canned Fruits and Vegetables, and Canned Tomato Juice. Class 46.

311,529. "NESTLÉ MILK" ETC. AND DESIGN. Registered Mar. 27, 1934. Nestlé's Milk Products, Inc. Renewed Mar. 27, 1954, to The Nestlé Company, Inc., New York, N. Y., a corporation of New York. Evaporated and Condensed Milk. Class 46.

311,549. "THE BIG SHOT" ETC. AND DESIGN. Registered Mar. 27, 1934. The Crown Overall Mfg. Co., Cincinnati, Ohio, a corporation of Ohio. Renewed Mar. 27, 1954. Men's and Boys' Overalls, Men's Trousers and Work Shirts. Class 39.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

582,019. "H R M" AND DESIGN. Registered Nov. 3, 1953. Hermann R. Maier, Andover, N. J. Plastic Cookie-Cutting Molds. Class 23. Corrected as follows: The drawing should appear as shown below instead of as in the registration—



Erratum

All references to Trade-Mark No. 584,649 to Mooresville Mills, Inc. for Piece Goods Made of Synthetic Fibres (Class 42) appearing in the OFFICIAL GAZETTE of January 12, 1954, should be deleted as the application was withdrawn from issue and the registration was not issued.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 349,261. Registered Aug. 24, 1937. The Porcelain Enamel and Manufacturing Company of Baltimore, Baltimore, Md. Republished by Pemco Corporation, Baltimore, Md., a corporation of Maryland.



UNIFORM PERFORMANCE

The words "Uniform Performance" are disclaimed apart from the mark as shown.

For Enamel Frits, Oxides, and Opacifiers.

Claims use since Feb. 24, 1937.

Reg. No. 382,829. Registered Nov. 12, 1940. The Porcelain Enamel and Manufacturing Company of Baltimore, doing business as The Porcelain Enamel and Manufacturing Company, Baltimore, Md. Republished by Pemco Corporation, Baltimore, Md., a corporation of Maryland.

NEOPAKE

For Porcelain Enamel Frits.

Claims use since May 23, 1940.

Reg. No. 411,278. Registered Jan. 9, 1945. Pemco Corporation, Baltimore, Md., a corporation of Maryland. Republished by registrant.

PEMCO MIRAC

For Enamel Frits.

Claims use since July 8, 1944.

CLASS 2

RECEPTACLES

Reg. No. 349,268. Registered Aug. 24, 1937. (Classified in Class 28.) Cohn & Rosenberger, Inc., New York, N. Y. Republished by Coro, Inc., New York, N. Y., a corporation of New York.

See this number in Class 28 for goods and mark.

Claims use since Mar. 1, 1937.

Reg. No. 422,482. Registered July 23, 1946. Coro, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

VANITY FAIR

For Compacts for Containing Cosmetics Made of Plastic and Sold in Trade Empty.

Claims use since Oct. 1, 1945.

Reg. No. 425,516. Registered Nov. 26, 1946. (Classified in Class 28.) Coro, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

See this number in Class 28 for goods and mark.

Claims use since January 1944.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Reg. No. 349,268. Registered Aug. 24, 1937. (Classified in Class 28.) Cohn & Rosenberger, Inc., New York, N. Y. Republished by Coro, Inc., New York, N. Y., a corporation of New York.
See this number in Class 28 for goods and mark.
Claims use since Mar. 1, 1937.

Reg. No. 425,516. Registered Nov. 26, 1946. (Classified in Class 28.) Coro, Inc., New York, N. Y., a corporation of New York. Republished by registrant.
See this number in Class 28 for goods and mark.
Claims use since January 1944.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 146,847. Registered Sept. 20, 1921. The Porcelain Enamel and Manufacturing Company of Baltimore, Baltimore, Md. Republished by Pemco Corporation, Baltimore, Md., a corporation of Maryland.

PEMCO

For Vitreous and Porcelain Enamels.
Claims use since July 1917.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 346,921. Registered June 15, 1937. Technical Porcelain and Tile Company, El Cerrito, Calif. Republished by Technical Porcelain & Chinaware Co., El Cerrito, Calif., a firm.



The representation of the label and all wording other than "Balbo" are disclaimed aside from the mark as shown.
For Vitreous Porcelain Bathroom and Kitchen Wall Fixtures.
Claims use since Jan. 15, 1936.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 207,347. Registered Dec. 29, 1925. Red Spot Paint & Varnish Co., Inc., Evansville, Ind., a corporation of Indiana. Republished by registrant.

Parmolite

For Paste, Ready Mixed Paints and Paint Enamels and Varnishes for All Kinds of Interior Finishing Purposes.
Claims use since Jan. 18, 1920.

Reg. No. 221,229. Registered Nov. 23, 1926. Red Spot Paint & Varnish Co., Inc., Evansville, Ind., a corporation of Indiana. Republished by registrant.

LINZ-O-LITE

For Paste Paint and Liquid Paint.
Claims use since Apr. 9, 1925.

Reg. No. 377,757. Registered May 14, 1940. Red Spot Paint & Varnish Co., Inc., Evansville, Ind., a corporation of Indiana. Republished by registrant.

PRO PAINTER

For Paint Products—Namely, Exterior Paste White Paint, Outside White Paint, One Coat Flat White Paint, Stippling Flat White Paint, Enamel White Paint, One Coat Enamel White Paint, Semi-Gloss White Paint, Enamel Undercoat White Paint, Pigment Sealer White Paint, Clear Wall Sealer, Glazing Liquid, Flatting Oils, Japan Dryer, Ready-Mixed Aluminum Paint, Bakelite Spar Varnish, Floor and Trim Varnish, Liquid Oil Colors.
Claims use since Nov. 18, 1939.

Reg. No. 397,234. Registered Aug. 25, 1942. Red Spot Paint & Varnish Co., Inc., Evansville, Ind., a corporation of Indiana. Republished by registrant.

CHEKORODE

For Ready Mixed Paint, Particularly Adapted for a Metal Primer and Rust Inhibitor for Structural Steel and Other Metal Surfaces.
Claims use since Mar. 4, 1942.

Reg. No. 404,102. Registered Nov. 2, 1943. Red Spot Paint & Varnish Co., Inc., Evansville, Ind., a corporation of Indiana. Republished by registrant.

RED SPOT
Zone-Tone

The drawing is lined for red.
For Washable Interior Wall Paint.
Claims use since May 8, 1943.

Reg. No. 409,308. Registered Oct. 3, 1944. The Porcelain Enamel & Mfg. Co. of Baltimore, doing business as The Porcelain Enamel & Mfg. Co., Baltimore, Md. Republished by Pemco Corporation, Baltimore, Md., a corporation of Maryland.

PERMARINE

For Fireproof Inorganic Ceramic Coating Composition for Ships, Piers, Piles, Marine Furniture, and Other Wooden, Metal, and Synthetic Structures Which Are Subjected to the Destructive Action of Salt Water, Bacteria, and Animal Life, and Vegetable or Marine Growths Present in Salt and Fresh Water.
Claims use since Apr. 30, 1943.

Reg. No. 415,669. Registered Aug. 14, 1945. Red Spot Paint & Varnish Co., Inc., Evansville, Ind., a corporation of Indiana. Republished by registrant.

RED SPOT
PLASTIQUICK

For Quick Drying Plastic Material in the Nature of Paint.
Claims use since Mar. 15, 1944.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 418,989. Registered Jan. 15, 1946. S. Pfeiffer Manufacturing Company, St. Louis, Mo., a corporation of Missouri. Republished by registrant.

F-M-C

For Cough Syrup.
Claims use since May 1940.

CLASS 19

VEHICLES

Reg. No. 209,196. Registered Feb. 16, 1926. Six Wheels Incorporated, Los Angeles, Calif. Republished by The Maxi Corporation, Los Angeles, Calif., a corporation of California.

WHEELS INC.

For Automobile Trucks.
Claims use since Sept. 1, 1924.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 167,671. Registered May 8, 1923. Kohler Co., Kohler, Wis., a corporation of Wisconsin. Republished by registrant.

KOHLER

For Electric Generating Plants.
Claims use since Dec. 1, 1920.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Reg. No. 349,268. Registered Aug. 24, 1937. Cohn & Rosenberger, Inc., New York, N. Y. Republished by Coro, Inc., New York, N. Y., a corporation of New York.

Andrée

For Necklaces and Bracelets, Finger Rings, Earrings, Jewelry Clips, Brooches, Lockets, and the Following Goods Made in Whole or in Part of Precious Metal or Plated With the Same: Beads, Pins, Hat Ornaments, Hair Ornaments, Holders for Face Powder Compacts, Comb Cases, Cigarette Cases, Fancy Cigarette Boxes, Fancy Buckles, and Jewelry Initials.
Claims use since Mar. 1, 1937.

Reg. No. 378,029. Registered May 21, 1940. Cohn & Rosenberger, Inc., New York, N. Y. Republished by Coro, Inc., New York, N. Y., a corporation of New York.

GLAMOR

For Pins, Clips, Brooches, Bracelets, Necklaces, Pendants, Lockets, Charms, Earrings, Buckles, Finger Rings, Anklets, Hair Ornaments, Tiaras, and Fobs, All of the Foregoing Articles Being Made Wholly or in Part of or Plated With Precious Metal.
Claims use since Jan. 5, 1940.

Reg. No. 425,516. Registered Nov. 26, 1946. Coro, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

for that priceless look

For Pearl Necklaces, Pearl Earrings, Pearl Bracelets, Pearl Brooches, Pearl Rings, Pearls and Jewelry for Personal Wear or Adornment Not Including Watches—Namely, Necklaces, Bracelets, Earrings, Jewelry Clips, Brooches, Lockets; and the Following Goods Made in Whole or in Part of Precious Metals or Plated With the Same—Namely, Beads, Pins, Hat Ornaments, Holders for Face Powder Compacts, Comb Cases, Fancy Cigarette Boxes, Fancy Buckles, and Jewelry Initials.
Claims use since January 1944.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 363,743. Registered Jan. 3, 1939. The Radium Emanation Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

AMETAL

For Secondary Filters Capable of Filtering Off the Harmful Rays Generated by the Radium or Radon Component Present in Radium or Radon-Containing Appliances, Said Secondary Filters Being Composed of a Material Exemplified by Rubber Inhibiting the Generation of Caustic Secondary Beta Radiation.
Claims use since June 1925.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 226,295. Registered Apr. 5, 1927. Minneapolis Brewing Company, Minneapolis, Minn. Republished by Minneapolis Brewing Company (1933), Minneapolis, Minn., a corporation of Minnesota.

GRAIN BELT

For Malt Sirup for Food Purposes.
Claims use since Oct. 11, 1926.

Reg. No. 226,296. Registered Apr. 5, 1927. Minneapolis Brewing Company, Minneapolis, Minn. Republished by Minneapolis Brewing Company (1933), Minneapolis, Minn., a corporation of Minnesota.

GRAIN BELT

For Malt Sirup for Food Purposes.
Claims use since Oct. 11, 1926.

Reg. No. 226,297. Registered Apr. 5, 1927. Minneapolis Brewing Company, Minneapolis, Minn. Republished by Minneapolis Brewing Company (1933), Minneapolis, Minn., a corporation of Minnesota.

For Malt Sirup for Food Purposes.
Claims use since Oct. 11, 1926.

Reg. No. 433,708. Registered Oct. 28, 1947. Continental Coffee Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

W B

For Roasted Coffee.
Claims use since Mar. 1, 1915.

CLASS 48

MALT BEVERAGES AND LIQUORS

Reg. No. 54,643. Registered June 26, 1906. Minneapolis Brewing Co., Minneapolis, Minn. Republished by Minneapolis Brewing Company, Minneapolis, Minn., a corporation of Minnesota.

GRAIN BELT

For Beer.
Claims use since on or about Dec. 23, 1895.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 186,002. Registered July 1, 1924. Houbigant, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

LA BELLE SAISON

For Perfume, Toilet Water, Face Powder, Talcum Powder, Sachet Powder, Cold Cream, Brilliantine, Bath Salts, Rouge.
Claims use since Jan. 24, 1924.

Reg. No. 310,067. Registered Feb. 13, 1934. The Phillips & Benjamin Company, Boston, Mass. Republished by Wernet Dental Mfg. Co., Inc., Jersey City, N. J., a corporation of Delaware.

Stera-Kleen

For Artificial Denture Cleansers.
Claims use since Aug. 6, 1933.

Reg. No. 338,137. Registered Sept. 1, 1936. S. Pfeiffer Manufacturing Company, St. Louis, Mo., a corporation of Missouri. Republished by registrant.

Miralis

For Hair and Scalp Stimulator Preparation, After Shaving Balm, and Shampoo.
Claims use since Mar. 1, 1936.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 338,137. Registered Sept. 1, 1936. (Classified in Class 51.) S. Pfeiffer Manufacturing Company, St. Louis, Mo., a corporation of Missouri. Republished by registrant.
See this number in Class 51 for goods and mark.
Claims use since Mar. 1, 1936.

PLANT PATENTS

GRANTED JANUARY 19, 1954

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,242

SYRINGA VULGARIS PLANT

Dirk Eveleens Maarse, Aalsmeer, Netherlands, assignor of one-third to Anthonie Kluis, one-third to Johan Hendrik Kluis, and one-third to Frits Marie Kluis, all of Pompton Plains, N. J.

Application November 25, 1952, Serial No. 322,592

1 Claim. (Cl. 47—60)

The new and distinct variety of *Syringa vulgaris* plant, substantially as herein shown and described, characterized particularly by its long, slender panicles with loosely arranged clusters of florets; its healthy and vigorous upright growth; its relatively light-green, cordate-shaped leaves; and its florets of clear purple with narrow, white band edging each lobe or petal.

1,243

ROSE PLANT

John A. Podesta, San Leandro, Calif.

Application October 17, 1952, Serial No. 315,442

1 Claim. (Cl. 47—61)

The new and distinct variety of polyantha type rose plant, substantially as herein described and illustrated, characterized particularly by its growth of medium height and bushiness; its relatively light-colored leaves with finely serrated edges; and its production throughout the season of white buds with little or no green on the petals, developing into completely double flowers having unique green centers with no pistils, as described.

1,244

ROSE PLANT

Francis Meilland, Cap Azura, Cap d'Antibes, France, assignor to The Conard-Pyle Company, West Grove, Pa., a corporation of Pennsylvania

Application January 19, 1953, Serial No. 332,136

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid polyantha class, substantially as herein shown and described, characterized particularly as to novelty by the exceptional permanence and fixity of the intense Spectrum Red general color tonality of its blooms without appreciable change during development, aging and extreme weather conditions, by the general superiority of the plant and its blooms, and by its reliably continuous blooming habit.

1,245

PEACH TREE

Grant Merrill, Red Bluff, Calif.

Application February 9, 1953, Serial No. 336,025

1 Claim. (Cl. 47—62)

A new and distinct variety of peach tree, substantially as described and illustrated, bearing large, firm, highly colored, freestone fruit; characterized—as to novelty, and as compared to the heavy setting, difficult to size, Redhaven peach—by a larger tree, and by setting moderately and sizing readily with normal pruning and thinning; the fruit of the two varieties being otherwise generally similar, including substantially the same ripening period.

1,246

PEACH TREE

Grant Merrill, Red Bluff, Calif.

Application February 9, 1953, Serial No. 336,026

1 Claim. (Cl. 47—62)

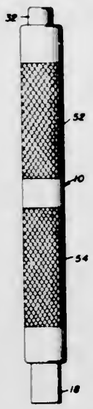
A new and distinct variety of peach tree, substantially as described and illustrated, bearing large, round, uniform, smooth, yellow-fleshed fruit; characterized—as to novelty—by a ripening period intermediate the July Elberta peach and the J. H. Hale peach; by a very large, heavy producing tree; by self-fertile blossoms; by fruit larger, firmer, and better colored than the July Elberta, but not as large or as firm as the J. H. Hale; and by fruit which has excellent shipping quality.

PATENTS

GRANTED JANUARY 19, 1954

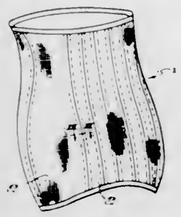
GENERAL AND MECHANICAL

2,666,201
NAIL DRIVER
Howard J. Van Orden, Paterson, N. J.
Application February 1, 1952, Serial No. 269,369
3 Claims. (Cl. 1—47)



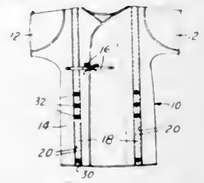
1. A nail driving and setting device comprising an elongated tubular body, a sleeve slidably mounted within said body, a driving shaft slidably mounted within said tubular body and said sleeve, means carried by said driving shaft for retaining nails in engagement therewith, said nail retaining means being a magnet disposed within the lower end of driving shaft, said magnet being seated within a sleeve of non-magnetic material mounted within a bore in the driving shaft, said magnet being retained within said sleeve by a hardened core of magnetic attractive material.

2,666,202
FOUNDATION GARMENT
George E. Ongley, Niagara Falls, N. Y., assignor to The Spirella Company, Incorporated, Niagara Falls, N. Y., a corporation of New York
Application October 11, 1951, Serial No. 250,894
5 Claims. (Cl. 2—36)



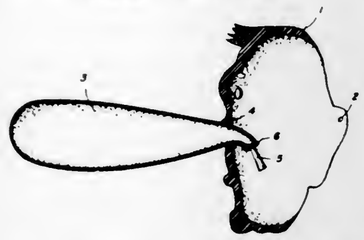
1. A foundation garment comprising sections of cloth shaped for required body support and control and sewed together by vertically-disposed seams having laterally folded edges on the inside of the garment, and wrinkle-preventing stays attached to the inside of the garment forming cloth at said seams, said stays being of generally flat form but each having a concavity at one of its sides extending throughout the length thereof, each of said stays comprising recurring loops of resilient wire and being elastically flexible in all directions, and said stays being positioned with their concave sides outwardly, the folded edges of the cloth at said seams lying in the concavities of the stays whereby the outside of the garment is smooth and free from exterior ridges at the positions of the stays.

2,666,203
INFANT'S GARMENT
Samuel Berman, Hartford, Conn.
Application June 6, 1952, Serial No. 292,150
2 Claims. (Cl. 2—111)



1. An infant's garment adapted for abdominal support comprising in combination, a shirt body having shoulder portions, a plurality of reinforcing tapes secured to the outside of the shirt body and extending substantially longitudinally thereof over the said shoulder portions, an abdominal belt surrounding said body, and fastening means on said tapes located above and below said belt adapted to be interconnected and secure said tapes in adjusted folded positions over said belt.

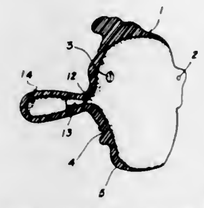
2,666,204
FACE MASK
Rudolf Mafko, Wilmington, Del., assignor to Bayshore Industries, Inc., Elkton, Md., a corporation of Maryland
Original application December 5, 1951, Serial No. 260,057, now Patent No. 2,606,324, dated August 12, 1952. Divided and this application May 26, 1952, Serial No. 289,942
1 Claim. (Cl. 2—206)



A rubber face mask for amusement purposes adapted to cover substantially entirely the face

of the wearer and having on the exterior thereof simulated anatomical features of the face, such as a mouth, a chin and ears, said mask having an opening at a position to correspond to that of a nose, a conventional, pre-formed, elongated toy balloon having its open end neck inserted into and through said opening and firmly glued to the periphery of said opening, said balloon being of thin rubber and representing a simulated nose of grossly exaggerated length normally drooping well below the chin even when uninflated, and a dual-purpose noise-making and balloon-expanding mouthpiece in the neck of the balloon positioned inside the mask approximately in the location of the wearer's mouth whereby, when the wearer blows on the mouthpiece, a noise is emitted and the nose simultaneously inflated from a drooped vertical position to a horizontal position.

2,666,205
FACE MASK
Rudolf Mafko, Wilmington, Del., assignor to Bayshore Industries, Inc., Elkton, Md., a corporation of Maryland
Original application December 5, 1951, Serial No. 260,057, now Patent No. 2,606,324, dated August 12, 1952. Divided and this application May 26, 1952, Serial No. 289,943
1 Claim. (Cl. 2—206)



A rubber face mask for amusement purposes adapted to cover substantially entirely the face of the wearer and having on the exterior thereof simulated anatomical features of the face, such as a mouth, a chin and eyes, said mask having an elongated, hollow, simulated, rubber nose of exaggerated size, and an air-operated noise-making means located in the base of the nose and operated by tweaking the nose.

2,666,206
FACE MASK
Rudolf Mafko, Wilmington, Del., assignor to Bayshore Industries, Inc., Elkton, Md., a corporation of Maryland
Application May 26, 1952, Serial No. 289,944
8 Claims. (Cl. 2—206)



8. A face mask for amusement purposes having a movable simulated facial feature on the exterior thereof, a lever-like actuating device having one end attached to said feature with the other end disposed at a point interior of the mask at a point approximating the position of the mouth of the wearer, and means on the latter end of the actuating device for contact with the tongue of the wearer whereby motion of the wearer's tongue may be imparted to said facial feature through said actuating device.

2,666,207
VENTILATED STOCKING
Anton Lucas, Chicago, Ill.
Application February 21, 1952, Serial No. 272,809
4 Claims. (Cl. 2—239)

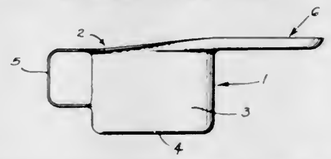


1. A stocking of the character described, comprising a knitted hose element, and flexible tubular elements of varied length interspersed in staggered relationship in the knitted texture in the upper portion of the foot portion thereof, the open ends of the said tubular elements defining a multiplicity of staggered forced air inlets and outlets.

2,666,208
PROSTHETIC STOCKING
Dorothy B. Funk, Burbank, Calif.
No Drawing. Application July 25, 1950, Serial No. 175,879
9 Claims. (Cl. 2—267)

1. A prosthetic stocking comprising a sheer fabric base coated on one side with alternate layers of rubber-like material and of a filler material to render the stocking opaque.

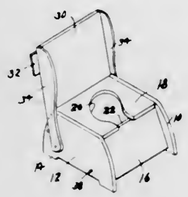
2,666,209
PATIENT'S URINAL
Clara Sherva, Portland, Oreg.
Application December 24, 1951, Serial No. 263,060
1 Claim. (Cl. 4—110)



A patient's urinal comprising a cup-shaped receiver having an open mouth, sides and a bottom portion, a handle projecting laterally from one side thereof, and a supplementary receiver extending laterally from a point diametrically opposite thereof, said supplementary receiver communicating with the first mentioned receiver, said supplementary receiver having a cupped floor, an upturned rim portion bounding the floor of said supplementary receiver at all points save at the point of communication with said first mentioned receivers, a lateral out-turned rim on the first mentioned receiver the periphery there-

of merging with the upturned rim of said supplementary receiver, the general plane of the floor of said supplementary receiver coinciding with the plane of the mouth of the first mentioned receiver, and the depth of the upturned rim being quite shallow with respect to the depth of the first mentioned receiver, whereby the supplementary receiver may be slipped conveniently under a seated patient, the rim portions of said receiver in plan lying within an unbroken ovate pattern, and in elevation defining an unbroken sweep, the plane of the rim of the first mentioned receiver subtending an oblique angle with that of the upper margin of the upturned rim of the supplementary receiver, said first mentioned receiver lying wholly within and spaced from the ovate pattern of the peripheries of the rim portions of said urinal.

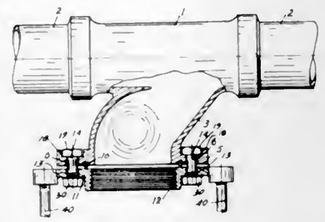
2,666,210
COMBINED CHILD'S TRAINING SEAT AND STEP-STOOL
Harry A. Wiley, Gardner, Mass., assignor to Thayer, Inc., Gardner, Mass., a corporation of Massachusetts
Application May 7, 1952, Serial No. 286,558
4 Claims. (Cl. 4—134)



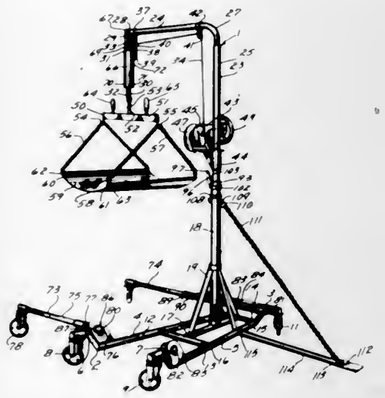
4. A combined training seat, seat, and step-stool comprising a hollow base including sides, a front, an open rear, and an apertured top member, a hinged cover selectively overlying the top member and covering the aperture or raised to substantially upright condition and used as a backrest in exposed condition of the aperture, free-ended arms pivoted at the sides of the base for generally horizontal location below the plane of the top of the base, said arms being selectively movable to a generally upright location, a cross member on the arms adjacent the free ends thereof to support the cover when raised and to form a step for the device when the arms are down in said generally horizontal location, said cover being received between the arms and the cross member being located on the arms a distance from the pivots thereof to clear the cover when the latter is down.

2,666,211
SEALED CONNECTION FOR WALL CLOSET FITTINGS
John H. Schmid, Erie, Pa., assignor to J. A. Zurn Mfg. Co., Erie, Pa., a corporation of Pennsylvania
Application August 5, 1950, Serial No. 177,889
1 Claim. (Cl. 4—252)

In a water closet carrier, a hollow fitting having a hollow branch attached thereto, said branch hollow communicating with said fitting hollow and terminating in an elongated opening, a flat faced flange attached to the branch and disposed around the elongated opening, said flange having a groove in the face thereof, said groove being disposed around the elongated opening, a gasket diamond shaped in cross section for disposal in the groove, a flat faced water closet carrier having an opening therein, said carrier opening being adapted to communicate with the hollow branch, and means to secure the water closet carrier to the flange in adjusted relation thereto whereby the opening in the carrier communicates with the hollow in the branch in a plurality of adjusted positions of the carrier, the groove in said flange being rectangular in cross section and one sharp edge of the diamond engaging the bottom of the groove and the outside corners of the groove engaging two sides of said diamond shaped gasket and the diamond shaped gasket adapted to sealingly engage the flat faced flange and the flat face of the water closet carrier in any of the adjusted positions of the carrier.

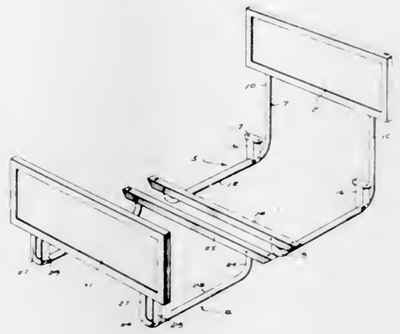


2,666,212
MOBILE ELEVATOR FOR INVALIDS
Roy A. Flanders, Pratt, Kans.
Application January 6, 1951, Serial No. 204,716
8 Claims. (Cl. 5—86)



1. A mobile elevator of the character described including a wheel supported base, a standard on the base, a post having journalled support by the standard and having a laterally extending arm, a cable winding mechanism mounted on the post, an invalid's support including a cross member, a tackle connected with the laterally extending arm for suspending the invalid's support from said arm and including a cable connected with said cross member and with said cable winding mechanism to raise and lower the invalid's support, and a tubular housing rigidly connected with said arm and surrounding the portion of the tackle which suspends from said arm and having portions for engaging the cross member in one position of the invalid's support to prevent swinging of said support on the arm.

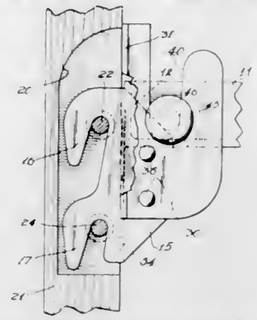
2,666,213
BED CONSTRUCTION
D'Arle G. Bash, Coral Gables, Fla.
Application April 15, 1950, Serial No. 156,226
5 Claims. (Cl. 5—131)



1. In a supporting device embodied in a bed construction for use with a bed box spring wherein the box spring is supported in an elevated position above the floor, a foot section for the elevating support of the box spring at one end and comprising a frame formed of a continuous section of metallic tubing shaped to provide a pair of spaced apart horizontal floor runners having terminal ends that are upturned to an identical height and connected by a horizontally disposed channel iron, the frame being bent inwardly of its terminal ends to form a vertically arranged inverted U-shaped support having parallel vertical legs and a horizontal cross-bar, a footboard swingably supported on the frame, elongated brackets fixed upon the rear face of the footboard and embracing the cross-bar of the frame, the board normally lying in vertical engagement with the support and adapted to swing forwardly on the horizontal axis of the cross-bar, brace means to limit the swinging movement of the board, the footboard adapted to swing through an arc of ninety degrees to dispose its face in a horizontal seat forming position, the brace means comprising past center brace arms connected with the vertical legs of the support and with the rear face of the footboard, supporting legs rivetted to the frame adjacent its points of bending, the tops of the supporting legs being at an elevation corresponding to the elevation of the channel iron, the supporting legs and channel iron being detachably connected to the underside of a frame of the box spring, the footboard adapted for use with a headboard of similar construction.

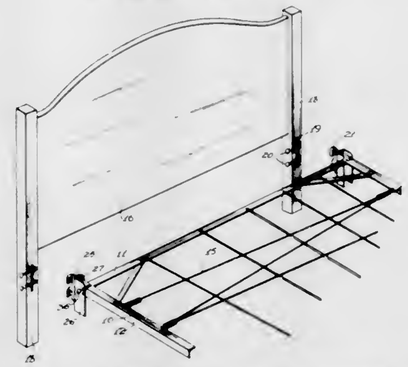
2,666,214
BEDSTEAD FITTING
Carl Harris, Cicero, Ill.
Application February 9, 1950, Serial No. 143,262
2 Claims. (Cl. 5—288)

1. The combination with a hook plate designed for partial insertion with a forward portion into a medial slot made in the flat receiving face of a bedpost for engaging supports in the latter, and to receive a connection to a rear portion engageable by a button spaced by a neck from the side rail of a bedspring; of a second plate forming said connection and assembled laterally with said rear portion, said second plate having a slot and an angle bend adapted to abut said face on one side



of the medial slot, and said neck seating in the slot of the second plate.

2,666,215
HOOK PLATE CONSTRUCTION FOR BEDSPRINGS
George M. Harris, Chicago, Ill.
Application November 24, 1952, Serial No. 322,273
5 Claims. (Cl. 5—297)

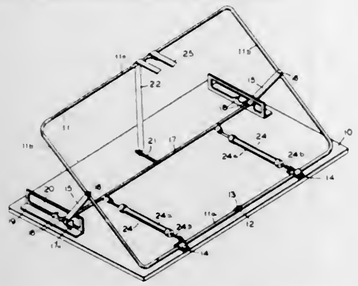


1. A support for a hook plate designed to project from the corner portion of a bedspring frame for application to a bedspost, comprising means attaching the hook plate to the frame, such means permitting the lateral adjustment of the hook plate relative to the frame, said means comprising a vertically-positioned channel-fitting secured with its opening facing the frame, the base of the fitting having a vertical slot, the hook plate having an inner portion within the fitting formed with a perforation, and a rivet spanning the flanges of the fitting and passing freely through said perforation, an outer portion of the hook plate passing through the slot to project from said base.

2,666,216
INCLINED BED REST
Irvine K. Schnaitter, Cleveland Heights, Ohio
Application December 9, 1949, Serial No. 132,001
6 Claims. (Cl. 5—327)

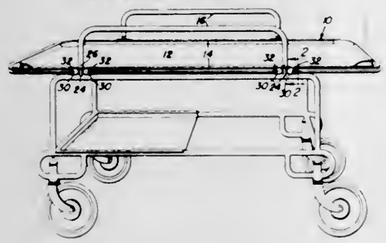
1. An inclined bed rest comprising a flat base, a frame adapted to support one end of a mattress and having a hinge connection with said base, a strut at each side of said frame, each strut having one end pivotally connected to said frame at a point spaced from said hinge connection, a rod connecting the other ends of said struts, a ratchet toothed bracket secured to said base and

adapted to receive and hold said rod, a leg rigid with and extending laterally from said rod, said leg being longer than the depth of said ratchet teeth, and means for tilting said rod over on said leg to lift said rod clear of said teeth.



4. The combination of claim 1 including snubbing means connected between said rod and said base for retarding the movement of said rod after release from said ratchet teeth.

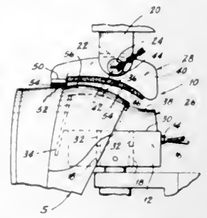
2,666,217
WHEEL STRETCHER WITH PATIENT RETAINING MEANS
Robert W. Stuart, Columbus, Ohio
Application August 21, 1950, Serial No. 180,646
1 Claim. (Cl. 5—331)



A guard unit for attachment to wheeled stretchers of the type including a platform comprising a marginal channel frame, said unit including pairs of spaced blocks having opposed sockets therein, means for securing said pairs of blocks at spaced points on the frame, shafts connecting the pairs of blocks and having their end portions engaged in the sockets, said shafts adapted to parallel the frame in spaced relation thereto, a substantially U-shaped tubular guard rail, and headed shanks fixed in the end portions of said rail and projecting therefrom and having longitudinal slots therein accommodating the shafts for pivotally and slidably mounting the guard rail on the blocks, said shanks being adapted for side abutting engagement with the frame for retention, thereby for releasably securing the guard rail against swinging movement in raised, operative position on the platform.

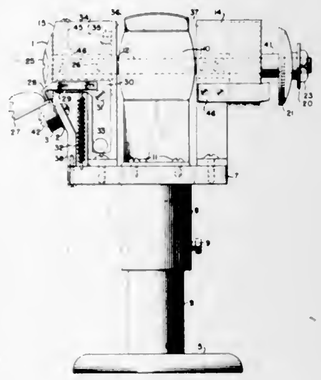
2,666,218
DIE SET AND METHOD OF SHAPING THE BACK PORTIONS AND TOP LINES OF SHOES
Adolf H. Altvater, Chesterfield, Mo., assignor to Western Supplies Company, St. Louis, Mo., a corporation of Missouri
Original application October 27, 1949, Serial No. 123,951. Divided and this application May 11, 1951, Serial No. 225,844
6 Claims. (Cl. 12—51)

4. A device of the type described, comprising a first die shaped like the inside of the back line of a shoe and having an extension to engage the forward part of the inner heel surface of the sole of a shoe; and a second die shaped substan-



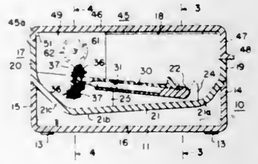
tially like the outside of the back line of a shoe and having a projection extending beyond the bottom of the back line to engage the back of the heel member of the shoe.

2,666,219
SOLE ROUNDING AND TRIMMING MACHINE
Charles L. Flindt, San Jose, Calif.
Application October 12, 1948, Serial No. 54,007
8 Claims. (Cl. 12—88)



1. The combination in a shoe sole trimming machine of, shoe sole supporting and guiding devices, an arcuate shaped blade for removing the excess overhang of a shoe bottom, and a motor driven rotary member mounted to enter the cut made by the blade and enlarge the width thereof for separating part of the said excess overhang from friction producing contact with the blade during the cutting operation.

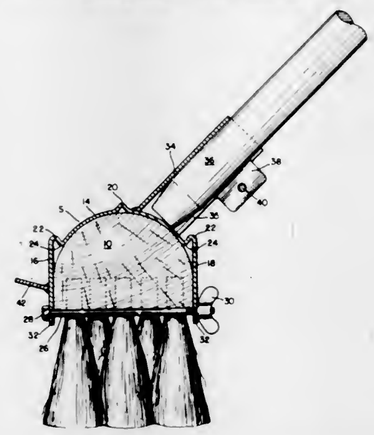
2,666,220
DENTAL BURR CLEANER AND STERILIZER
Creston Sutch, Glenside, Pa.
Application October 18, 1952, Serial No. 315,525
7 Claims. (Cl. 15—21)



1. Dental burr cleaning apparatus comprising a housing having an interior portion providing a liquid receptacle, a rotary brush mounted in said

receptacle, a second rotary brush engaging said first mentioned brush, driving means for said brushes, a movable burr holder supported by said housing, and members for positioning said burr holder in one position for the reception of a plurality of dental burrs with the cutting portions exposed and for positioning said burr holder in another position with the cutting ends of the burrs between said brushes.

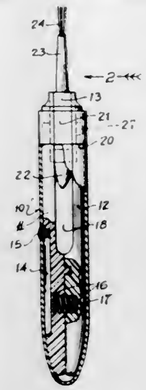
2,666,221
BROOM OR BRUSH HOLDER
Rudolf Stepper, Seattle, Wash.
Application July 12, 1950, Serial No. 173,359
4 Claims. (Cl. 15—146)



1. A holder for push-brooms, scrubbing brushes, and the like, comprising: an elongated, channel-shaped saddle to overlie the back of a brush or broom and including a pair of opposed depending flanges joined between their upper edges by an integral back plate; said saddle being formed of metallic sheet stock and being flexible to permit flexure of the flanges and bowing of the back plate; said saddle including, adjacent the joinder of each flange to the back plate, an inwardly directed concavo-convex ridge extending from end-to-end of the saddle to press upon the back of a broom or brush the full length of the saddle when the flanges are compressed; draft means operable to compress the flanges against the sides of the brush or broom back and to bow the back plate to press said ridges to the back of a broom or brush; and shaft receiving means extending from said saddle in a position normal for manipulation of said broom or brush for sweeping or scrubbing.

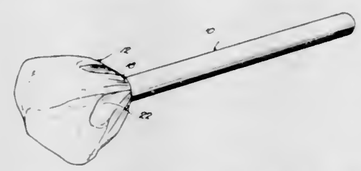
2,666,222
COSMETIC APPLYING BRUSH
Don Gordon, Los Angeles, Calif.
Application October 3, 1950, Serial No. 188,227
2 Claims. (Cl. 15—185)

1. In a cosmetic applying device, a housing open at one end, a two-part longitudinally divided body arranged for sliding movement in said housing an expansion spring arranged between the two parts of the body, a stud seated in said housing, there being a groove formed in one of the parts of said body, which groove receives said stud and thereby limits the sliding movement of said body within said housing, the outer end portions of said body forming members being spaced apart to form a pocket there being longitudinal grooves formed in the inner faces of side walls of said pocket, a cosmetic applying member pivotally mounted between said body



forming parts and positioned within said pocket and there being longitudinal ribs formed in the side walls of said cosmetic applying member and normally positioned in said grooves.

2,666,223
CLEANING SWAB FOR TOILET BOWLS
Lura B. Farrell, Coshocton, Ohio
Application April 18, 1950, Serial No. 156,576
1 Claim. (Cl. 15—210)



A cleansing swab comprising an elongated handle and a head, said head including a plurality of initially flat, identical, superimposed, polygonal layers of imperforate, highly absorbent sheet material capable of immediate disintegration when dipped in water, said layers having a plurality of corners gathered into a neck, presenting a hollow, ballooned body extending from the neck, there being a number of openings in said body adjacent the neck of the head, one of said layers being provided with a patch of adhesive material adjacent each corner thereof respectively, said handle comprising an initially flat sheet of material coiled at one end thereof around the neck in engagement with said patches of adhesive material for joinder of the handle to the head by adherence of the handle to said one layer, the remaining layers being housed within the said one layer.

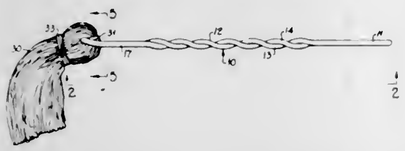
2,666,224
DEVICE FOR CLEANING WATER CLOSET BASINS
Geoffrey Sten Adams, Saltsjobaden, Sweden
Application October 26, 1946, Serial No. 705,977
2 Claims. (Cl. 15—223)

1. A substantially flat disposable cleaning pad consisting of a plurality of sheets of paper comprising outer plain sheets spaced apart to the edges of the pad and separated by one or more inner corrugated sheets, adhesive means at the

crests of the corrugations for connecting said sheets together, and a slot in said pad extending from one of the marginal edges of the pad to a point adjacent to the center thereof for receiving a manipulating handle, another of the marginal edges of the pad presenting a plurality of separated paper scraping edges for cleaning material from a surface over which the pad is pushed.



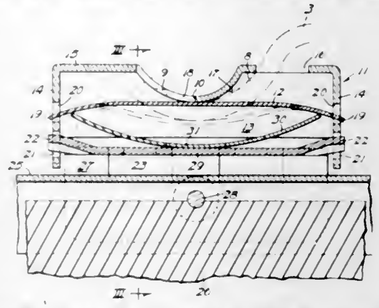
2,666,225
MOP HOLDER HAVING TWISTED WIRE HANDLE
Nannie B. Kindley, Concord, N. C.
Application June 15, 1949, Serial No. 99,141
2 Claims. (Cl. 15—229)



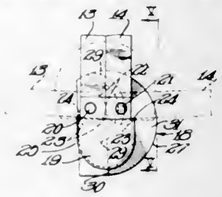
1. A mop comprising a handle member formed of a single piece of wire, said wire being bent at its medial portion to form a looped handle portion, and to thus form a pair of parallel legs extending from the looped handle portion, said parallel legs being twisted about each other from the base of the looped handle portion to a point a substantial distance short of the free ends of the legs, to form a twisted shank, said legs being bent apart from each other at the end of the shank to form an elongated opening and then being bent toward each other into overlapping relation and then being bent one around the other with their ends bent towards the looped handle portion and terminating in a plane passing through the longitudinal axis of the handle and perpendicular to the plane of said opening, a plurality of strands of fibrous material inserted through said elongated opening and being doubled upon themselves intermediate their ends, means encircling the strands at a point removed from the ends of the legs and means for encircling the strands at a point adjacent the ends of the legs whereby at least some of the strands of fibrous material will surround the ends of said legs and cover the extreme ends of the legs

2,666,226
WINDSHIELD CLEANING BLADE
Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application September 19, 1947, Serial No. 774,906
6 Claims. (Cl. 15—250)

1. A wiper blade member, an arm attaching clip member extending lengthwise thereof, means pivotally connecting the two members to permit the blade rocking laterally upon its wiping edge, the clip member being in the form of a hollow housing having a back wall and end walls which oppose each other, the latter being relatively displaceable and formed with seats, and a flat spring having its opposite ends engaged in the seats under compression to support the spring bowed toward the back wall and removable from the end walls upon their relative displacement, the back wall having an opening for interlockingly receiving one end of an actuating arm against the action of said spring.



2,666,227
LUGGAGE FRAME HAVING LOCKING HINGE STRUCTURE
Leo Stein, Chicago, Ill.
Original application July 20, 1945, Serial No. 606,084. Divided and this application March 17, 1951, Serial No. 216,175
4 Claims. (Cl. 16—145)

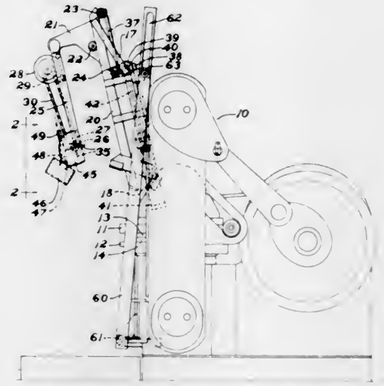


1. In a luggage frame assembly, a pair of frame members, a hinged plate for securing said frame members together, first pivot means securing one of said frame members to said hinge plate, second pivot means securing the other of said frame members to said plate whereby said frame members are rotatable on said pivots into an extended position or a closed position in which they lie immediately adjacent each other in substantially parallel relationship, a locking plate fixedly secured to said one frame member and extending beyond the end thereof into overlapping relation with said other frame member, said locking plate lying in a plane generally parallel to the plane of said hinge plate and having an interference shoulder thereon adapted to spring over the edge of said other frame member when the frame members are in extended position, said second pivot being axially loose whereby said other frame member may be sprung relative to the locking plate to clear said shoulder and thereby permit movement of said frame members into said closed position.

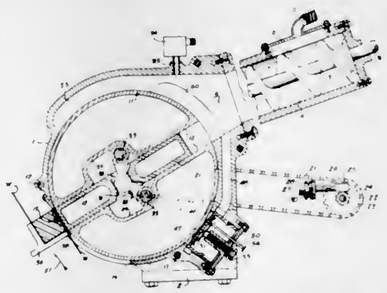
2,666,228
APPARATUS FOR STRIPPING MOLDED ARTICLES FROM MOLDS
Walter J. Strong, Cuyahoga Falls, and Robert E. Lindemann, Leroy, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 27, 1949, Serial No. 107,088
9 Claims. (Cl. 18—16)

1. Apparatus for stripping molded articles from the face of a mold, said apparatus comprising a

rotatable body extending along the face of the mold and having flexible members for dislodging articles from the mold face, means for rotating said body about an axis parallel to said mold face, a guide positionable parallel to and along the mold face, and a carriage movable along said guide and supporting said rotatable body to engage said members with the articles and dislodge the same from the mold face and means for retracting the guide means, carriage and rotatable member from the mold face to permit closing of the mold.



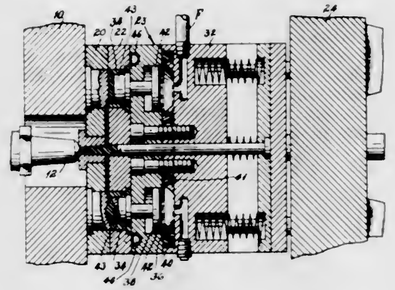
2,666,229
METHOD AND APPARATUS FOR PRODUCING ACCURATELY MEASURED PLASTIC MASSES
Clarence W. Vogt, Norwalk, Conn.
Application November 8, 1949, Serial No. 126,213
17 Claims. (Cl. 18—21)



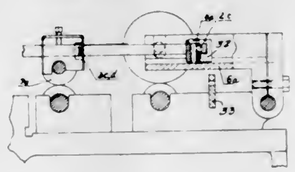
1. The method of producing masses of plastic material which comprises measuring a mass of plastic material, compressing said mass to a predetermined volume of said material at a predetermined pressure, separating any excess of said material over said predetermined volume at said predetermined pressure, and depositing said predetermined volume for packaging.

2,666,230
MOLDING APPARATUS FOR MOLDING MATERIAL
Russell J. Sherman, Great Neck, N. Y.
Application November 9, 1950, Serial No. 194,856
6 Claims. (Cl. 18—30)

1. Injection molding apparatus including a mold comprising fixed die members and moveable die members forming a plural cavity mold when placed in engagement, means for injecting a moldable material into said mold, a pressure plug plate having a plurality of pressure plugs, a pressure plug in engagement with each of said moveable die members, a pressure chamber block, an expandable diaphragm between said pressure chamber block and said pressure plug plate and adapted to impart pressure to said pressure plugs and means for introducing a medium having a predetermined pressure to said pressure chamber block during the cooling and solidifying of a moldable material injected into said mold cavities.



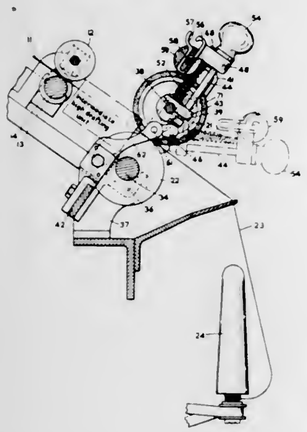
2,666,231
ROLLER GUIDE MEANS
Wilhelm Stahlecker, Tubingen, Germany, assignor to Vereinigte Kugellagerfabriken Aktiengesellschaft, Schweinfurt, Germany
Application November 13, 1950, Serial No. 195,192
17 Claims. (Cl. 19—130)



1. A device for guiding the upper rollers of a textile fiber drawing mechanism in which the upper rollers are arranged in pairs, comprising, in combination, a guide arm having at least a first section and a second section arranged substantially along a straight line with an end portion of said first section located adjacent to a side portion of said second section; joint means for articulatively connecting said end portion of said first section with said side portion of said second section; means for connecting said guide arm to the upper rollers so that the upper rollers are free to rotate with respect to said guide arm; said first section having two separate side arms spaced from and arranged in parallel relation to each other; a cross member connecting the ends of said side arms which are distant from said connected end of said first section; and a fulcrum element mounted on said drawing mechanism and located in abutting engagement

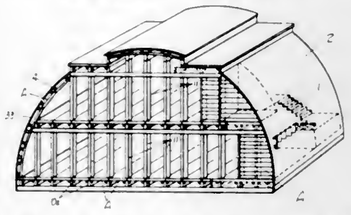
with a central portion of said cross member, whereby said cross member and said side arms connected thereto cooperate with said fulcrum element in the manner of a pendulum so as to automatically compensate for differences in the lengths of said side arms.

2,666,232
PRESSURE-APPLYING DEVICE FOR THE DRAFTING ROLLERS OF DRAFTING APPARATUS
Geoffrey Hill Ambler, Ilkley, England, assignor to Ambler Superdraft Limited, Ilkley, England, a British company
Application April 22, 1950, Serial No. 157,588
Claims priority, application Great Britain May 10, 1949
5 Claims. (Cl. 19—135)



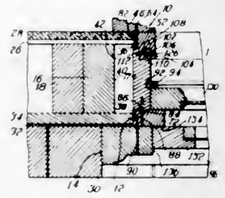
1. Apparatus for drafting textile rovings or the like, comprising a lower drafting roller, an upper drafting roller freely mounted on a supporting shaft and arranged to rest on the lower roller, a mounting for the upper roller including a pair of guiding recesses in which the supporting shaft is arranged to rest, said recesses being arranged with their longitudinal axes intersecting the axis of the lower roller, and a spring-pressure device including a support mounted for pivotal movement about an axis intersecting said longitudinal axes so as to be capable of swinging away from the upper roller into an inoperative position, a rod forming part of said support and arranged (when in operative position) with its axis in a plane parallel to that containing said longitudinal axes, a hook member slidably mounted on said rod and formed with a depression for engagement with the upper portion of the upper roller shaft, an abutment slidably mounted for adjustment on said rod, a compression spring arranged between the hook member and the abutment so as to apply pressure to the hook member, said spring being arranged (when in operative position) with its axis in the same plane as said longitudinal axes, and a stop on said rod for preventing more than a slight movement of the hook member by the spring when the hook member is swung clear of the upper roller shaft, the hook member being formed with an inclined guiding surface for lifting the hook member against the action of the spring as the nose of the hook member engages the shaft as the pressure device is swung into operative position.

2,666,233
PREFABRICATED BUILDING CONSTRUCTION
Edwin O. Klemm, Saginaw, Mich.
Application January 12, 1949, Serial No. 70,439
15 Claims. (Cl. 20—2)



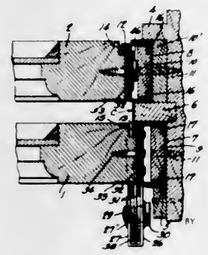
1. A building construction comprising a framework including a series of column members spaced apart and disposed in alignment, a second series of column members spaced apart and disposed in alignment, plate members fastened to the column members of each series at corresponding ends thereof and to opposite edges of the column members, and wood joist members of prefabricated form having attached preformed end parts extending therefrom on opposite sides thereof interlocking between the plate members of the two series of column members, said interlocking parts comprising wood blocks attached at opposite sides of the ends of the joist members and having downward projections engaging between the adjacent plate members.

2,666,234
TWO-PART PREFORMED WINDOW FRAME STRUCTURE
Lawson L. Lester, Jr., Martinsville, Va.
Application November 13, 1952, Serial No. 320,187
2 Claims. (Cl. 20—11)



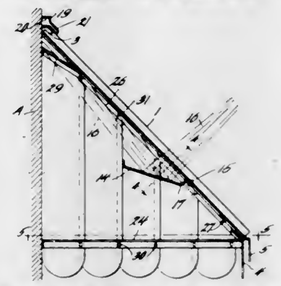
1. A prefabricated window frame comprising inner and outer window frame forming portions, said inner window frame forming portion including a pair of longitudinal trim pieces joined at their ends by a pair of transverse trim pieces to define substantially a rectangle, and a pair of inner longitudinal jamb sections joined by a transverse head piece and a transverse sill piece to define substantially a rectangle of interior dimensions substantially equal to the corresponding dimensions of the rectangle of said trim pieces and substantially less in outside dimensions than the outside dimensions of the rectangle of said trim pieces, and means joining said longitudinal and transverse trim pieces to the longitudinal jamb sections and head and sill pieces, respectively, so as to provide an inner sub-unit, said outer window frame forming portion including longitudinal trim pieces joined by a transverse trim piece so as to define a substantially U-shape, a pair of outer longitudinal jamb sections joined by a transverse head piece so as to define a U-shape of smaller inside dimensions than said U-shape of the last mentioned trim pieces, a pair of relatively wide longitudinal main jamb sections joined by a transverse main head piece so as to define a U-shape of inside dimensions greater than that of the U-shape defined by the outer jamb sections and transverse head piece and also greater than the inside dimensions of the U-shape defined by the inner jamb sections and transverse head piece, means joining the U-shape of the outer jamb sections and head piece to the U-shape of the main jamb sections and head piece, means joining the U-shape of the outer longitudinal and transverse trim pieces to the U-shape of the outer jamb sections and head piece, a sill joining the free ends of the U-shapes, so as to provide an outer sub-unit, means for adjustably joining the inner jamb sections to the main jamb sections at side edges thereof so as to provide an outside peripheral channel adapted to embrace the vertical studding and upper and lower horizontal plates defining a window frame receiving opening, and with the inner and outer longitudinal jamb sections both projecting inwardly beyond the inner face of the main jamb sections and forming therewith inner longitudinal channels along opposite sides of the window frame, and a longitudinal divider carried by each of the main jamb sections dividing said longitudinal channels into separated channels for the upper and lower sashes.

2,666,235
WINDOW CONSTRUCTION
Albert Kaufman and Louis Kaufman, Brooklyn, N. Y.
Application March 24, 1953, Serial No. 344,305
5 Claims. (Cl. 20—49)



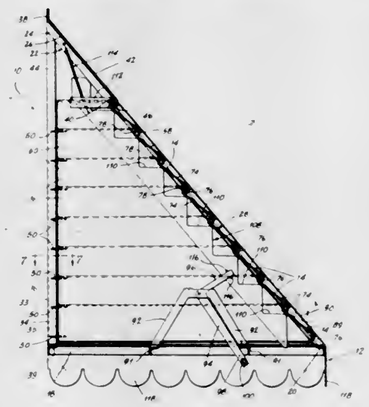
1. In a window construction wherein a window sash is slidable in a frame and swingable inwardly for cleaning and ventilating purposes, a sheet metal slide mounted for reciprocating movement within the frame, a window sash fitted with a sheet metal edging pivotally mounted to said slide at the lower end thereof with the adjacent contacting faces of said sheet metal slide and said sheet metal edging being in close frictional engagement for weather-sealing purposes, and a pivoted joint between said slide and said edging comprising a J-shaped sheet metal lug having its long arm affixed to the face of said slide remote from its contacting face, a cooperating plane sheet metal lug affixed to the face of said edging remote from its contacting face and projecting therefrom into the base of said J-shaped lug, aligned openings in said two lugs, a pair of smooth compressible apertured washers on opposite sides of said plane lug, and a bolt assembly extending through said openings for maintaining said lugs and washers in integrated condition to effect the longitudinal compression of the pivoted joint which remains unaffected by the pivotal movements of said sash relative to said slide.

2,666,236
AWNING
Nicholas A. Odom, Washington, D. C.
Application June 14, 1949, Serial No. 98,956
6 Claims. (Cl. 20—57.5)



1. An awning adapted to be attached to the wall of a building and provided with a slanting roof, openings in the lower part of the roof and a reflector plate secured in position and extending transversely of the roof and below the openings, the plane of the plate being at an angle to the plane of the roof to reflect light rays that come thru the openings to the upper underside of the awning.

2,666,237
AWNING WITH MOVABLE LOUVERS
William C. Bertram, St. Louis, Mo.
Application October 16, 1950, Serial No. 190,417
16 Claims. (Cl. 20—57.5)

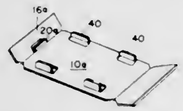


1. An awning, comprising a supporting framework having a rigid front portion and at least one rigid side portion; a first set of louvers pivotally mounted on the front portion on stationary pivots in spaced relationship; a second set of louvers pivotally mounted on the side portion on stationary pivots in spaced relationship; means for pivoting one set of louvers; and means interconnecting the other set of louvers with the one set so as to automatically move with them.

2,666,238
STUDDING ANCHOR
Albert E. Hagedorn, Dayton, Ohio
Application December 8, 1950, Serial No. 199,849
1 Claim. (Cl. 20—95)

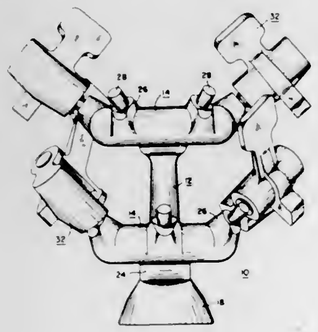
A timber connector comprising a rectangular base portion and a pair of end portions having

the same width as the base portion and extending from each of opposite ends of said base portion, said end portions being bent angularly relative to the base portion, said connector having a substantially uniform width throughout its length, a plurality of side flange tabs cut out of said base portion and bent to a perpendicular position relative to the base portion, said tabs being disposed in a straight line along each side of said base but being spaced from the edge of said side to define therebetween a narrow marginal flange relative to said base portion, the



flange tabs on either side being equal in number and facing a corresponding tab on the opposite side, an end flange tab cut out of said end portion, bent to extend perpendicularly to said base and positioned on the bend line of said end portion, said end and side tabs comprising means for retaining a timber member therebetween, a plurality of V-shaped notches, each of said notches being cut out of a marginal strip and its adjacent end portion and being located at opposite ends of each of said bend lines between said base and end portions.

2,666,239
PATTERN ASSEMBLY
James A. Farrell, Irwin, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 29, 1950, Serial No. 171,160
3 Claims. (Cl. 22—162)

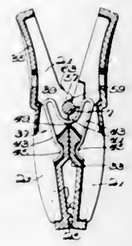


1. In a pattern assembly of wax for the making of investment castings, the combination comprising, a stem member having an enlarged base portion, a pair of interchangeable ring members each having a plurality of protuberances spaced about the periphery thereof, each protuberance carrying a pin member extending outwardly therefrom and inclined upwardly at an angle with respect to a plane through the associated ring member, the pin members being disposed for mounting patterns thereon and the interchangeable ring members being of substantial size compared to the associated pin members, an upper support member and a lower support member disposed about the stem member in spaced relation lengthwise thereof for receiving the ring members, the lower support member being relatively large as compared to the upper support member, the lower support member comprising a shoulder having a concave surface for supporting one of the interchangeable ring members and the upper support member comprising a shoulder having a concave surface for supporting the other of the interchangeable ring members, said one of the interchangeable ring members having a central opening therein of a size to facilitate slipping of the said one of the interchangeable ring members over the upper support member when tilted at an angle thereto to seat the said one of the interchangeable ring members on the lower support member with the stem member centrally thereof, the central opening of the said other of the interchangeable ring members facilitating the seating of the said other of the interchangeable ring members on the upper support member, the ring members being secured to their support members by the application of heat to effect a bond therebetween.

ERRATUM

For Class 22—189 see:
Patent No. 2,666,685

2,666,240
CLIP FOR CLOTHES RACKS
Mario Maccaferri, Rye, N. Y.
Application February 19, 1951, Serial No. 211,639
4 Claims. (Cl. 24—137)



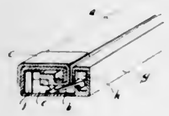
1. A clip including, in combination, a pair of members provided intermediate the opposite ends thereof with facing arcuate recesses therein defining a support rod receiving space therebetween; clamping jaws formed by said members, respectively, at one side of said recesses; outwardly divergent handles formed by said members at the side of said recesses opposite said clamping jaws; a spring unit mounted on said members adapted to continuously bias the said members to position closing said clamping jaws; said spring unit including opposite spring legs extending along and engaged with said clamping jaws, respectively, and a base common to said spring legs extending between said members across and spaced from said recesses at the side thereof opposite said handles; each of said members being provided with a finger extending inwardly therefrom to the opposite member and across and closing the outer, handle side of said rod receiving space formed between said recesses; and each of said members being formed with an opening therein aligned with and freely movably receiving therein the inwardly extending finger of the other of said members.

2,666,241
BAND END CONNECTION
Jesse E. Hall, Sr., Weatherford, Tex.
Application March 23, 1950, Serial No. 151,456
4 Claims. (Cl. 24—201)



1. A fastener element of the character described, comprising a member having a plurality of aligned perforations and having a flange portion extending along said perforations across one side of the aligning edges of the perforations and having another flange extending along said perforations at the opposite side of the perforations, one of said flanges being wider than the other flange, said member having a re-entrant bend across said perforations, with the portions of said member between said perforations constituting aligned loops adapted to receive a pintle therein, whereby said fastener element is adapted to be secured to one end of a split collar of an oil well scratching or centering tool, or the like, with the wider flange of said member overlapping and welded to the outer surface of the collar and the other flange of said member abutting endwise and welded to the end surface of the collar with the inner surface of said member flush with the inner surface of the collar and with said loops of said members spaced forwardly of the end of the collar.

2,666,242
LOCKING DEVICE WITH SLIDER
Lajos Steiner, Neutral Bay, New South Wales, Australia
Application June 24, 1952, Serial No. 295,369
2 Claims. (Cl. 24—205)



1. A locking device of the type described, having, in combination, a first edge element, a second edge element and a sliding member; said first edge element consisting of an elongated strip of material divided by a longitudinal opening, having on its inside a longitudinal recess, and having a longitudinal lip, and having inside said longitudinal recess a plurality of resiliently supported locking members; said second edge element consisting of a plurality of members resiliently held by a longitudinal housing, said members having ridges engaging into the lip of said first edge element and locked in place by said locking members inside said longitudinal recess of said first edge element; said sliding member being slidably mounted on the outside of said first edge element and having guides protruding inside said longitudinal recess, displacing said resiliently supported locking members and disengaging said ridges of said second edge element from said lip of the first edge element.

2,666,243
SPRING HOOK CLASP
Herman Kuehn, Union, N. J., assignor to Gemex Company, Union, N. J., a corporation of New Jersey
Application March 8, 1950, Serial No. 148,351
3 Claims. (Cl. 24—234)

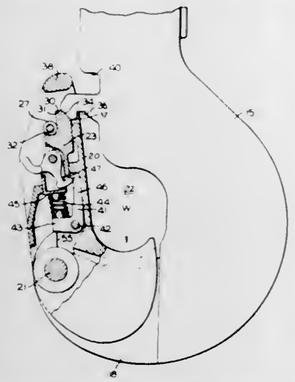


1. A spring hook clasp particularly for use on the ends of a wrist watch bracelet to connect the bracelet and a wrist watch, comprising a cap having an apertured ear for attaching it to a wrist watch bracelet such as an expansible link chain bracelet, said cap having flanges on its edges adjacent the ear projecting downward, a stud having a head fixed in the cap by inturned portions of the flanges, the stud extending down from the cap, a pair of hooks each having a flat inner end portion pivoted on the stud, an arm extending out from the inner end portion from under the cap, and a tongue at its outer and free end projecting toward the other hook, the tongues of the two hooks overlapping, one above the other, in a closed position of the hooks, the inner end portions of the hooks being disposed within a two-part spring housing consisting of a first housing member having an apertured disc portion mounted on the stud engaging said head and having a flange around part of its periphery projecting away from the cap, and a second housing member having an apertured disc portion mounted on the outer end of the stud and having a flange around part of its periphery projecting toward the cap and telescoped with respect to the flange of said first housing member, the outer end of the stud being upset to retain the housing on the stud, the inner end portion of each hook being formed to have a shoulder with the shoulders of the two hooks on opposite sides of the stud, and a helical coiled compression spring in the housing bent in an arc around the stud with its ends engaging the shoulders and biasing the hooks toward one another to closed position.

2,666,244
DRILLING HOOK BILL SAFETY LATCH
James T. Carmichael, Shreveport, La., assignor to The Brewster Company, Shreveport, La.
Application December 10, 1952, Serial No. 325,152
10 Claims. (Cl. 24—241)

8. In a safety drilling hook having a body with a forwardly extending bill forming a bail-receiving notch and a latch arm pivoted to said bill and adapted to close the entrance to said notch, a safety latch bolt slidably mounted on said latch arm for movement in a substantially vertical plane to engage in a keeper notch in the hook body when the hook is in normal use, and having its upper latching end adapted to engage a cam surface on the outside of the member forming a wall of said keeper notch in camming relation thereto to retract said bolt upon closing movement of said latch arm, spring means biased at its upper end against the lower end of said latch bolt, normally urging said latch bolt toward the extended latching position, a latch bolt lock comprising a bell crank lever pivotally mounted on said latch arm at its angle, said same spring means being biased at its bottom end against one arm of said latch bolt lock and urging the other arm of said latch bolt lock toward locking posi-

tion with said latch bolt, and latch bolt lock pivoting bell crank means, pivoted at its angle, having one arm manually operative in a substantially downward direction for first pivoting its



other bell crank arm against said other bell crank arm of said latch bolt lock against its biasing spring end in a direction toward unlocking position and then retracting said latch bolt and latch arm to the unlatched position.

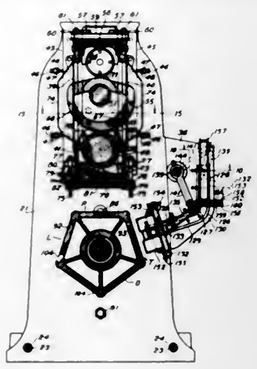
2,666,245
FASTENER
Eric Birger Fernberg, Pinner, England
Application September 6, 1950, Serial No. 183,407
Claims priority, application Great Britain September 6, 1949
4 Claims. (Cl. 24—259)



1. A clip for securing an article to an apertured panel, comprising an approximately flat body of spring strip metal, article-engaging means integral with said body, a depressed portion on said body adapted to project into and occupy a substantial portion of the panel aperture, said depressed portion being sheared from the body along two approximately opposite short lengths of its periphery and forming a detent and an abutment respectively, and a tongue the tip and sides of which are sheared and spaced from the body while the root is integral with the depressed portion at the abutment, the depressed portion and tongue being formed wholly within the body as a continuous deformation thereof from the detent to the tip of the tongue.

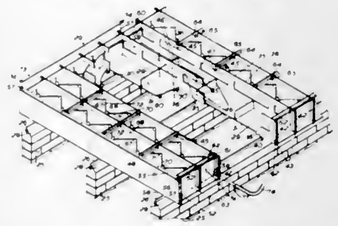
2,666,246
TILE MOLDING MACHINE
Joseph Pessagno, Niles, Calif.
Substituted for abandoned application Serial No. 25,147, May 5, 1948. This application May 31, 1952, Serial No. 290,860
2 Claims. (Cl. 25—42)

1. In a tile molding machine having a die holder, in combination, a pair of opposed columns having confronting guide portions, a press comprising a housing slidably mounted between said columns and being restrained by said guide portions, a shaft rotatably mounted on said columns and passing through said housing, a roller mounted in said housing, a cam fixedly mounted on said shaft and being so constructed and arranged as to contact said roller and urge said housing along a path between said guide portions, a second roller mounted in said housing and a



second cam fixedly mounted on said shaft and being so constructed and arranged as to contact said second roller and urge said housing along said path in a reverse direction.

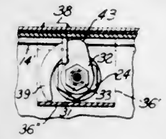
2,666,247
MOLD FOR MOLDING CONCRETE BLOCKS
John M. Wilson, Glasgow, Scotland
Application January 30, 1951, Serial No. 208,517
Claims priority, application Great Britain January 30, 1950
7 Claims. (Cl. 25—121)



4. A composite multiple mould for moulding concrete blocks comprising a plurality of spaced longitudinally-extending blade members disposed in parallel vertical planes with their upper edges horizontal and uniplanar, at least two of said blade members having therein at two longitudinally-spaced-apart points a notch which extends downwardly in a vertical direction from the upper edge of the blade member, each notch in each blade member being identical to and in transverse alignment with the corresponding notches of the other blade members; two extreme side members positioned transversely across the blade members and having plane inner surfaces; downwardly-extending projection means at the lower edge of each extreme side member engaging in the notches of one of the series of transversely-aligned notches to lock the extreme side members against displacement longitudinally of the blade members in positions whereat the inner surfaces of said members face each other and occupy vertical planes; means locking said extreme side members against transverse displacement relative to the blade members; a plurality of horizontal bottom members located transversely across the blade members between the extreme side members and forming the bottoms of individual rows of moulds; a plurality

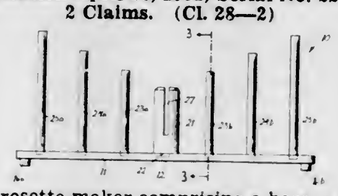
of vertical division members positioned transversely across the blade members between adjacent bottom members and separating the individual rows of moulds; means locating the lower edges of the division members against transverse movement relative to the blade members; a plurality of vertical end members, one positioned at each end of the individual rows of moulds to close said ends, interengaging means on the division and end members positively locating said members relative to one another; lower vertical separating plates separating the moulds of the individual rows of moulds; means on said division plates positively locating said lower separating plates; a plurality of horizontal deck plates, one mounted transversely across each individual row of moulds at some height above the bottom member thereof and having a plurality of through apertures therein; projection means on the division and end members supporting said deck plates; upper vertical separating plates separating the moulds of the individual rows of moulds above said deck plates; and means on said division plates positively locating said upper separating plates.

2,666,248
LATCH FOR CASKETS
Bernard J. Slaughter, Jr., Cincinnati, Ohio, assignor to The Crane & Breed Casket Company, Cincinnati, Ohio, a corporation of Ohio
Application September 21, 1951, Serial No. 247,603
1 Claim. (Cl. 27—17)



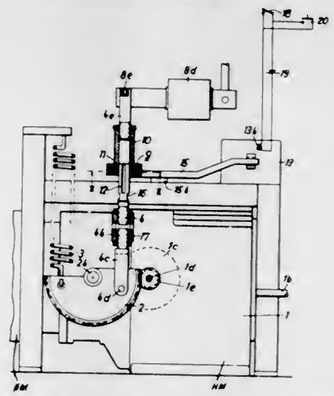
In a casket having a lid and a casket body which have rims provided with faces which meet in substantially horizontal flatwise engagement, one of said rim faces having a gasket holding circumferential trough, and a gasket in said trough for forming a seal between the lid and the casket body, the invention which comprises a latch comprising a horizontal sleeve attached to and extending through the side of the casket body and below the trough in water-tight relation with the casket body, the inner end of the sleeve terminating inboard of the trough, a shaft rotatably mounted in said sleeve, the inner end of said shaft extending inboard of the inner end of the sleeve, means forming a water-tight seal between the sleeve and the shaft, an L-shaped bracket attached at the opposite ends thereof to the rim of the casket body and to the side wall of the casket body, one of the arms of the bracket extending beneath the sleeve and shaft, the other arm being upright and spaced inwardly from the inner end of the sleeve, said other arm having a bearing opening receiving and journaling the inner end of the shaft, and a hook secured to said shaft between the inner end of the sleeve and the other arm of the bracket, the hook engaging the first mentioned arm of the bracket at both ends of the swing thereof to limit the swing to less than a full turn, and an upright latch keeper attached to the rim of the lid and projecting through an opening in the rim of the casket body inboard of the trough, the latch keeper being offset from the axis of the latch in the direction of turning thereof, the hook being engageable with the latch-keeper to draw the rims together when the latch shaft is turned, the hook engaging the latch keeper after passing the position in which the tip of the hook is immediately above the shaft, the tip of the hook engaging the first mentioned arm of the bracket when in latched position.

2,666,249
COMBINATION ROSETTE MAKER AND FLOWER HOLDER
Raymond R. Ruiz and Fred A. Smith, Bronx, N. Y., assignors of one-fourth to Joseph Cervone and one-fourth to John Plumer, New York, N. Y.
Application April 26, 1951, Serial No. 223,030
2 Claims. (Cl. 28—2)



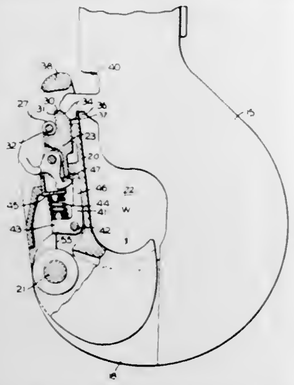
1. A rosette maker comprising a base, a central peg rising from said base and provided with two intersecting slots substantially at right angles to each other, each slot being of substantially greater depth than width, said base being provided with a plurality of recesses on each side of said central peg and in line with one of the said slots thereof, and at least two additional pegs removably fitting into said recesses on opposite sides of said central peg, the width of said one of said slots being substantially less than the thickness of said additional pegs, whereby a ribbon inserted in said one of said slots and wound around said additional pegs will converge toward said central peg.

2,666,250
DRIVE CONTROL APPARATUS FOR BEAM WARPERS
Karl Liebrandt, Oberfranken, Germany
Application October 10, 1951, Serial No. 250,640
Claims priority, application Germany October 23, 1950
7 Claims. (Cl. 28—39)



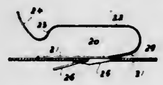
1. In a beam warper having a warp beam, a hydraulic drive having a hydraulic motor connected with said beam for driving the beam and having a controllable pump connected with said motor for operating said motor, said pump having a regulator member movable from a zero-speed position through a given range for controlling the beaming speed, the combination of

tion with said latch bolt, and latch bolt lock pivoting bell crank means, pivoted at its angle, having one arm manually operative in a substantially downward direction for first pivoting its



other bell crank arm against said other bell crank arm of said latch bolt lock against its biasing spring end in a direction toward unlocking position and then retracting said latch bolt and latch arm to the unlatched position.

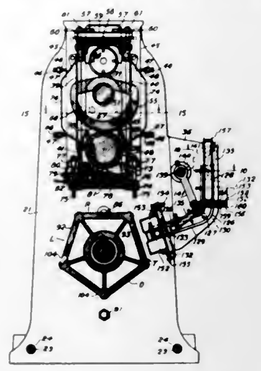
2,666,245
FASTENER
Eric Birger Fernberg, Pinner, England
Application September 6, 1950, Serial No. 183,407
Claims priority, application Great Britain September 6, 1949
4 Claims. (Cl. 24—259)



1. A clip for securing an article to an apertured panel, comprising an approximately flat body of spring strip metal, article-engaging means integral with said body, a depressed portion on said body adapted to project into and occupy a substantial portion of the panel aperture, said depressed portion being sheared from the body along two approximately opposite short lengths of its periphery and forming a detent and an abutment respectively, and a tongue the tip and sides of which are sheared and spaced from the body while the root is integral with the depressed portion at the abutment, the depressed portion and tongue being formed wholly within the body as a continuous deformation thereof from the detent to the tip of the tongue.

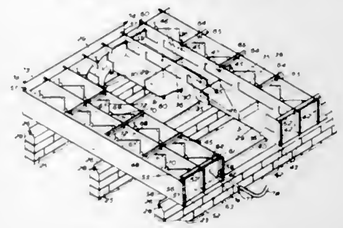
2,666,246
TILE MOLDING MACHINE
Joseph Pessagno, Niles, Calif.
Substituted for abandoned application Serial No. 25,147, May 5, 1948. This application May 31, 1952, Serial No. 290,860
2 Claims. (Cl. 25—42)

1. In a tile molding machine having a die holder, in combination, a pair of opposed columns having confronting guide portions, a press comprising a housing slidably mounted between said columns and being restrained by said guide portions, a shaft rotatably mounted on said columns and passing through said housing, a roller mounted in said housing, a cam fixedly mounted on said shaft and being so constructed and arranged as to contact said roller and urge said housing along a path between said guide portions, a second roller mounted in said housing and a



second cam fixedly mounted on said shaft and being so constructed and arranged as to contact said second roller and urge said housing along said path in a reverse direction.

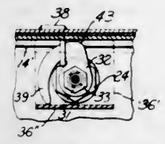
2,666,247
MOLD FOR MOLDING CONCRETE BLOCKS
John M. Wilson, Glasgow, Scotland
Application January 30, 1951, Serial No. 208,517
Claims priority, application Great Britain January 30, 1950
7 Claims. (Cl. 25—121)



4. A composite multiple mould for moulding concrete blocks comprising a plurality of spaced longitudinally-extending blade members disposed in parallel vertical planes with their upper edges horizontal and uniplanar, at least two of said blade members having therein at two longitudinally-spaced-apart points a notch which extends downwardly in a vertical direction from the upper edge of the blade member, each notch in each blade member being identical to and in transverse alignment with the corresponding notches of the other blade members; two extreme side members positioned transversely across the blade members and having plane inner surfaces; downwardly-extending projection means at the lower edge of each extreme side member engaging in the notches of one of the series of transversely-aligned notches to lock the extreme side members against displacement longitudinally of the blade members in positions whereat the inner surfaces of said members face each other and occupy vertical planes; means locking said extreme side members against transverse displacement relative to the blade members; a plurality of horizontal bottom members located transversely across the blade members between the extreme side members and forming the bottoms of individual rows of moulds; a plurality

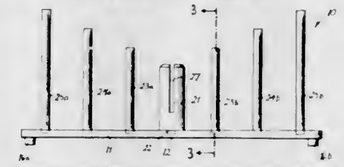
of vertical division members positioned transversely across the blade members between adjacent bottom members and separating the individual rows of moulds; means locating the lower edges of the division members against transverse movement relative to the blade members; a plurality of vertical end members, one positioned at each end of the individual rows of moulds to close said ends, interengaging means on the division and end members positively locating said members relative to one another; lower vertical separating plates separating the moulds of the individual rows of moulds; means on said division plates positively locating said lower separating plates; a plurality of horizontal deck plates, one mounted transversely across each individual row of moulds at some height above the bottom member thereof and having a plurality of through apertures therein; projection means on the division and end members supporting said deck plates; upper vertical separating plates separating the moulds of the individual rows of moulds above said deck plates; and means on said division plates positively locating said upper separating plates.

2,666,248
LATCH FOR CASKETS
Bernard J. Slaughter, Jr., Cincinnati, Ohio, assignor to The Crane & Breed Casket Company, Cincinnati, Ohio, a corporation of Ohio
Application September 21, 1951, Serial No. 247,603
1 Claim. (Cl. 27—17)



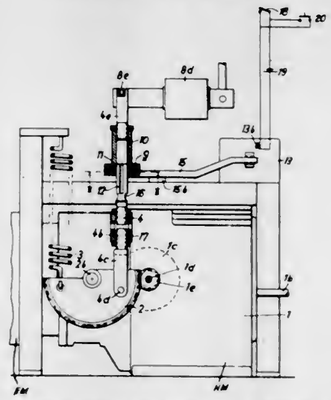
In a casket having a lid and a casket body which have rims provided with faces which meet in substantially horizontal flatwise engagement, one of said rim faces having a gasket holding circumferential trough, and a gasket in said trough for forming a seal between the lid and the casket body, the invention which comprises a latch comprising a horizontal sleeve attached to and extending through the side of the casket body and below the trough in water-tight relation with the casket body, the inner end of the sleeve terminating inboard of the trough, a shaft rotatably mounted in said sleeve, the inner end of said shaft extending inboard of the inner end of the sleeve, means forming a water-tight seal between the sleeve and the shaft, an L-shaped bracket attached at the opposite ends thereof to the rim of the casket body and to the side wall of the casket body, one of the arms of the bracket extending beneath the sleeve and shaft, the other arm being upright and spaced inwardly from the inner end of the sleeve, said other arm having a bearing opening receiving and journaling the inner end of the shaft, and a hook secured to said shaft between the inner end of the sleeve and the other arm of the bracket, the hook engaging the first mentioned arm of the bracket at both ends of the swing thereof to limit the swing to less than a full turn, and an upright latch keeper attached to the rim of the lid and projecting through an opening in the rim of the casket body inboard of the trough, the latch keeper being offset from the axis of the latch in the direction of turning thereof, the hook being engageable with the latch-keeper to draw the rims together when the latch shaft is turned, the hook engaging the latch keeper after passing the position in which the tip of the hook is immediately above the shaft, the tip of the hook engaging the first mentioned arm of the bracket when in latched position.

2,666,249
COMBINATION ROSETTE MAKER AND FLOWER HOLDER
Raymond R. Ruiz and Fred A. Smith, Bronx, N. Y., assignors of one-fourth to Joseph Cervone and one-fourth to John Plumer, New York, N. Y.
Application April 26, 1951, Serial No. 223,030
2 Claims. (Cl. 28—2)



1. A rosette maker comprising a base, a central peg rising from said base and provided with two intersecting slots substantially at right angles to each other, each slot being of substantially greater depth than width, said base being provided with a plurality of recesses on each side of said central peg and in line with one of the said slots thereof, and at least two additional pegs removably fitting into said recesses on opposite sides of said central peg, the width of said one of said slots being substantially less than the thickness of said additional pegs, whereby a ribbon inserted in said one of said slots and wound around said additional pegs will converge toward said central peg.

2,666,250
DRIVE CONTROL APPARATUS FOR BEAM WARPERS
Karl Liebrandt, Oberfranken, Germany
Application October 10, 1951, Serial No. 250,640
Claims priority, application Germany October 23, 1950
7 Claims. (Cl. 28—39)



1. In a beam warper having a warp beam, a hydraulic drive having a hydraulic motor connected with said beam for driving the beam and having a controllable pump connected with said motor for operating said motor, said pump having a regulator member movable from a zero-speed position through a given range for controlling the beaming speed, the combination of

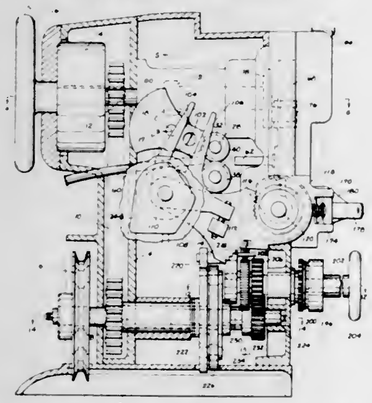
control apparatus comprising a manually displaceable control member, means disposed between said control member and said beam for also displacing said control member in dependence upon the beaming operation, a transmission connecting said control member with said regulator member and including a releasable clutch for transmitting motion from said control member to said regulator member, and thread-fault responsive means connected with said clutch for releasing said clutch.

2,666,251

MANUFACTURE OF SLIDE FASTENERS

Alfred E. Carlile, Brooklyn, N. Y., assignor, by mesne assignments, to Talon, Inc., a corporation of Pennsylvania

Application August 20, 1948, Serial No. 45,331
43 Claims. (Cl. 29—34)



1. A machine of the character described comprising a member mounted to oscillate between two positions, punch and die means carried by said member for gripping and forming a slide fastener scoop therebetween, means to feed a scoop blank to said first means in the first of such positions, means for moving said member together with said punch and die means carried thereby to such second position, means to feed a tape past the second position, and means adjacent the second position to clamp the legs of the scoop on the tape while being held by said punch and die means.

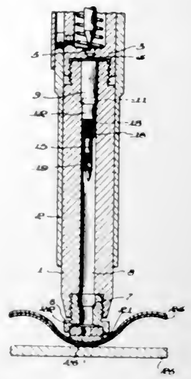
2,666,252

METHOD FOR FASTENING SHEET MATERIAL TO SUPPORTS

Robert Temple, Swissvale, Pa., assignor to Temple Velocity Equipment, Inc., Wilmington, Del., a corporation of Delaware

Application April 20, 1949, Serial No. 88,559
1 Claim. (Cl. 29—148)

The method of fastening sheet material to a solid support, comprising placing a solid soft metal sealing member against the side of said material opposite to said support, placing a large diameter heavy metal washer against the exposed side of said member, shooting a stud with a small diameter threaded head into the washer and sealing member and sheet material and said support far enough for the head to substantially strike the outer face of the washer, and then screwing a nut on said head and tightly against the washer to hold the sealing member in sealing engagement with said sheet material, the washer forming an emergency large head for the stud if the shooting stud accidentally misses said support, whereby the washer will prevent the stud



from passing entirely through the sealing member and sheet material.

2,666,253

METHOD OF MAKING SPRING ASSEMBLAGES

Ivar A. Morberg, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 4, 1951, Serial No. 249,751
11 Claims. (Cl. 29—155.55)



7. A method of making contact spring assemblages having a plurality of contact springs mounted in spaced relation to each other on an insulator card which consists of advancing a relatively wide strip of metal stock step by step through predetermined uniform distances, punching transverse rows of attaching lugs in successive portions of said strip, cutting successive portions of the strip into a predetermined number of ribbons, spreading the ribbons apart in a predetermined horizontally spaced relation to each other, advancing the ribbons in timed relation to the advancement of said strip, feeding insulator cards onto successive portions of said ribbons and between the attaching lugs thereon, clinching the lugs formed on the ribbons about the cards to secure portions of the ribbons onto said cards, and punching completed assemblages of springs from the ribbons.

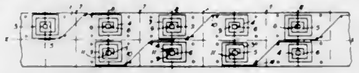
2,666,254

METHOD OF MANUFACTURING ELECTRICAL WINDINGS

Paul Eisler, London, England, assignor to Hermoplast Limited, London, England, a corporation of Great Britain

Application October 4, 1949, Serial No. 119,557
5 Claims. (Cl. 29—155.5)

1. The method of manufacturing an electric pathway pattern comprising the steps of forming on one side of a continuous insulation strip an identically repeating pattern of pairs of substantially flat electrically conductive spiral windings, the two windings of each pair being connected with their outer ends and the said pairs being disposed on the strip in two parallel rows in longitudinally uniform spacing so that each pair includes an anterior winding and a posterior winding (as seen in either one of the longitudinal directions of the strip) and each anterior winding in one row is transversely aligned with a posterior winding in the other row, folding the strip longitudinally between the two rows for placing each anterior winding in a superposed position with a posterior winding electrically separated by said insulation strip, and finally electrically connecting the inner ends of the superposed windings thereby joining the connected windings in circuit.

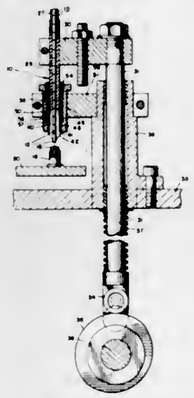


2,666,255

ARTICLE FEEDING DEVICE

Clarence E. McCoy, Clarendon Hills, and Ben L. Wright, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 29, 1951, Serial No. 253,722
3 Claims. (Cl. 29—211)



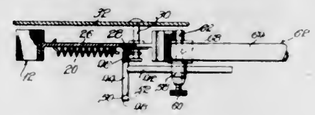
1. A device for feeding articles onto parts movable into a predetermined position at a loading station comprising a vertically disposed feed tube for guiding a plurality of articles for movement therethrough by gravity and having a plurality of flexible fingers forming a collet at the lower end thereof, said fingers having cam surfaces thereon, stationary guide means for supporting said feed tube for vertical movement above and in alignment with said loading station, a collet actuating sleeve slidably mounted on said collet and engageable with said cam surfaces, resilient means stressing said sleeve for movement in one direction to actuate said fingers into gripping engagement with an article positioned in the end of said feed tube to support a column of articles in said feed tube, means for reciprocating said feed tube to and from a lower position in a predetermined spaced relation to a part in said loading station, a stop member engageable with said actuating sleeve, and means for adjustably supporting said stop member on said stationary guide means at a predetermined position for stopping the downward movement of said actuating sleeve at a predetermined point prior to the end of the movement of the feed tube to its lower position to effect the release and movement of said column of articles and the movement of the lowermost article from the feed tube and into engagement with said part and to effect the actuation of said collet to grip one of the articles above the lowermost article and raise it and the column of articles supported thereby as the feed tube is moved from its lower position.

2,666,256

TOOL FOR BRAKE SHOE RETRACTING SPRINGS

William W. White, Evanston, Ill.

Application February 23, 1950, Serial No. 145,709
3 Claims. (Cl. 29—227)



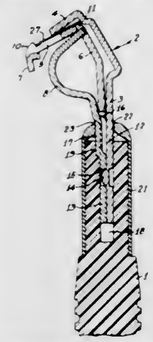
1. In a tool of the class described, a lever comprising a handle member and an arcuate fulcrum member rigidly connected with the handle member, said handle member and fulcrum member lying in substantially the same plane, there being a tubular bearing member rigidly connected to said handle and fulcrum member adjacent their connection, the axis of the tubular bearing member lying at substantially right angles to the plane of the handle and fulcrum members, a C-shaped link having a pivot pin at one extremity, said pivot pin being journaled in said tubular bearing member, the opposite extremity of said C-shaped link having a spring-engaging portion comprising a recess disposed substantially in the plane of said handle and fulcrum members, said C-shaped link lying in a plane which is disposed at all times at substantially right angles to said first named plane.

2,666,257

INJECTOR RAZOR

Charles E. Butlin, Plattsburg, N. Y., assignor, by mesne assignments, to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia

Application September 12, 1951, Serial No. 246,216
2 Claims. (Cl. 30—62)



1. An injector razor comprising a blade platform, a cam plate depending from the platform, a blade-clamping cap overlying the platform, a back plate depending from the cap, a spring pressing backwardly and upwardly at the in-

tersection of the blade platform and its cam plate, a tongue on the upper end of the spring, an aperture at the intersection of the blade platform and the cam plate into which the tongue extends, a depending extension on the spring, an outwardly projecting shoulder on the extension below the lower edge of the cam plate, a depending extension on the back plate in juxtaposition with that on the spring, and a handle having a slot within which the depending juxtaposed extensions on the spring and back plate are frictionally held.

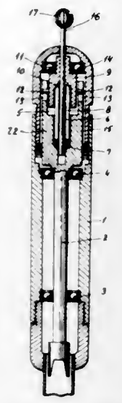
2,666,258
SHEARS WITH REPLACEABLE BLADES
Edward A. Vogel, Glen Ellyn, Ill., assignor to K. A. Vogel Sons, Chicago, Ill., a corporation of Illinois
Application March 15, 1951, Serial No. 215,701
1 Claim. (Cl. 30—349)



A pair of shears comprising a pair of elongated frame members with handle portions at one end and blade portions at the other end, a pivot pin extending through and pivotally interconnecting the frame members intermediate their ends, the blade portions having adjacent faces which are flat transverse of their length and concavely curved longitudinally, an elongated flexible blade which is normally flat fitting against the face of each blade portion, each blade portion having a recess formed in its face to receive a blade and terminating adjacent the pivot pin in a concavely shaped shoulder and having an opening therethrough remote from the pivot pin, each blade having a convexly shaped end to fit against the shoulder, and an integral finger on each blade lying generally parallel thereto and spaced therefrom and extending toward the outer end of the blade to extend through the opening in a blade portion and over the opposite surface of the blade portion to secure the blade to the blade portion so that the blade will assume the curve of the blade portion, the blade being held in compression lengthwise between the shoulder and the integral fingers.

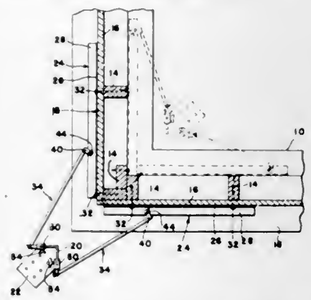
2,666,259
HANDPIECE FOR ROTARY TOOLS, ESPECIALLY FOR DENTISTS' USE
Orla Thau-Jensen, Hurup, Thy, Denmark
Application October 9, 1950, Serial No. 189,124
4 Claims. (Cl. 32—26)

1. A handpiece for rotary tools, comprising a tubular casing, a spindle mounted for rotation therein by means of bearings adapted to receive axial and radial thrust, a recess in the forward end of said spindle co-axial therewith, a co-axial conical seat in said recess, a chuck-actuating member mounted for axial displacement relative to said spindle and said casing and having another co-axial conical seat facing said first-named seat, a tool-gripping chuck mounted between said conical seats to be actuated thereby



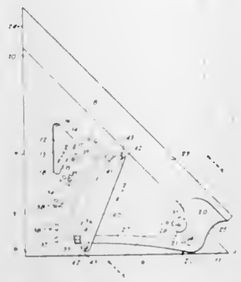
for gripping and releasing, respectively of a tool-shank, a cap at the forward end of said casing and surrounding said forward end of said spindle, said cap being adapted to be screwed forwards and backwards relative to said casing and being operatively connected with said axially displaceable chuck-actuating member for controlling axial displacement thereof in accordance with axial displacement of said cap.

2,666,260
BRACING SYSTEM FOR A MASON'S GUIDE LINE SUPPORTING COLUMN
Kenneth E. Schneider and Gerald W. Schneider, Borger, Tex.
Application April 23, 1952, Serial No. 283,798
1 Claim. (Cl. 33—85)



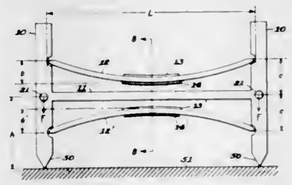
A bracing system for a mason's guide line supporting column comprising a pair of elongated horizontally extending guide members adapted to be detachably attached to adjacent sides of a building structure adjacent a corner thereof, brace arms mounted on the guide members for adjustment longitudinally thereon, clamp jaws pivotally connected to the brace arms for movement in horizontal arcuate paths, and said clamp jaws being adapted to clampingly engage a vertically disposed guide line supporting column mounted adjacent and in spaced relation to the corner of the building structure.

2,666,261
DRAFTING INSTRUMENT
John Arlon Buick, Norfolk, Va.
Application August 15, 1951, Serial No. 241,975
1 Claim. (Cl. 33—93)



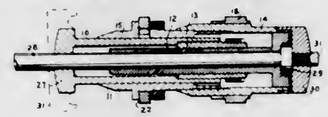
In a drafting instrument, a triangular base having a hypotenuse the obstruction of which is held to a minimum at all times of use, a straight edge arm having one end pivotally connected to a corner of said triangular base at a point in the angle between the hypotenuse and base and near the intersection thereof, an indicator arm integrally connected to said straight edge arm adjacent the pivoted end thereof and projecting over the base to cooperate with a protractor scale thereon, a guide strap having its ends affixed to said triangular base adjacent the ends of said scale to guide said indicator arm in close proximity to the graduations of said scale, an arcuate portion connecting said straight edge arm and said indicator arm, the rim of the arc extending along a radius having the common pivot of the straight edge arm and the indicator arm as its center, said arcuate rim lying in close proximity to said center, and a threaded fastener for holding said straight edge and indicator arms in a position of angular adjustment, said threaded fastener being arranged on the base between said arms with a rim of the fastener overlying and frictionally engaging said arcuate rim.

2,666,262
CONDITION RESPONSIVE APPARATUS
Arthur C. Ruge, Cambridge, Mass., assignor to Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania
Application February 21, 1948, Serial No. 10,112
11 Claims. (Cl. 33—148)



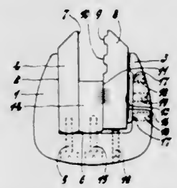
1. Condition responsive apparatus comprising, in combination, two relatively movable elements for transmitting to the apparatus a condition external thereof, a member pivotally connecting said elements together and maintaining them in operative relation so that relative rotation occurs between said elements in response to a change of said external condition, a flexible column buckled in a state of elastic instability interposed between said elements so that rotation of said elements applies an end force to the column along its lengthwise axis and thereby effects a predetermined change of strain at one of the surfaces of the column as a result of a given change in the extent of its buckling, said movable elements supporting the column only at its ends at all times, a resilient element interposed between said movable elements and exerting forces on them to oppose the tendency of the column-buckling condition to pivotally move said elements, said pivotal connecting member being disposed to carry the resultant of the forces acting on the movable elements by said column and resilient element so that said apparatus is in self-contained equilibrium, and electrical impedance strain gage means connected to said buckled column to be responsive to changes of the buckling strains at the surface thereof, said resilient element comprising an additional buckling column opposing the buckling force of the first column.

2,666,263
MICROMETER
Frederick M. Laserson, Los Angeles, Calif.
Application July 5, 1952, Serial No. 297,223
4 Claims. (Cl. 33—164)



1. In a micrometer, including a spindle, a micrometer-screw, a cooperating barrel and a cooperating thimble: an auxiliary thimble attached to the first said thimble; graduations showing the amount of movement of the first said thimble relatively to the auxiliary thimble; graduations showing the amount of movement of the auxiliary thimble relatively to the said barrel; means for optionally engaging the two thimbles to move integrally as one thimble; and means for optionally engaging the auxiliary thimble with the said barrel to prevent relative movement of the auxiliary thimble and the said barrel.

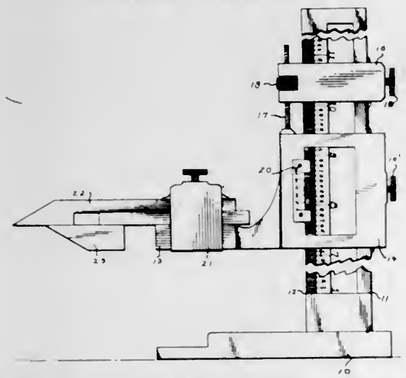
2,666,264
READJUSTABLE MECHANICAL GAUGE
Adrianus Brandt, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 13, 1950, Serial No. 155,757
Claims priority, application Netherlands May 31, 1949
6 Claims. (Cl. 33—168)



1. An adjustable gauge provided with two dimensional limits, comprising a first component part having one measuring surface integral therewith, said surface lying in a first plane, a second component part having two measuring surfaces integral therewith, said two surfaces lying in a second plane, said first and second planes being at an angle to each other, the distances between

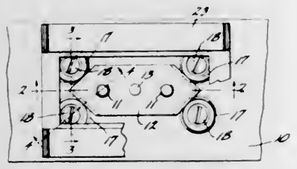
the measuring surface of said first component part and each of the two measuring surfaces of said second component part constituting said two limits, and means to displace one of said component parts in a direction parallel to the plane in which the integral surface thereon lies to alter the dimensional limits.

2,666,265
GAUGE
John B. Attig, Bridgeport, Conn.
Application August 18, 1949, Serial No. 110,961
8 Claims. (Cl. 33—169)



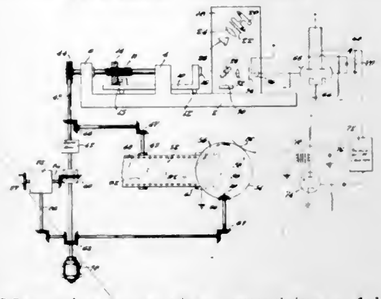
7. In combination, a standard; a vertically slidable arm on said standard; a clamping sleeve on said arm; and a pair of upper and lower scribers extending through said clamping sleeve, said scribers being in contact with their facing sides in sliding engagement, said scribers terminating at one end in scratch points, said scribers being arranged for longitudinal adjustment relative to each other and to the clamping sleeve wherein the point of one of the scribers extends outwardly beyond the point of the other scriber and said other scriber serves as a slide block and leveller for said one scriber.

2,666,266
DEVICE FOR POSITIONING ARTICLES BY COACTION WITH APERTURES OR RECESSES THEREIN
Nicholas S. Sinhel, Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 7, 1952, Serial No. 275,422
8 Claims. (Cl. 33—180)



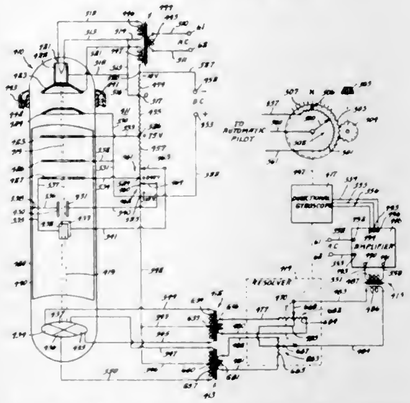
1. A device for positioning an article having a recess comprising a plurality of floating members, means for mounting said members in the recess with clearance to provide freedom of lateral movement of said floating members with respect to the recess within a predetermined range, and wedging means to move the floating members into engagement with the internal walls of the recess of the article to be positioned.

2,666,267
OPTICAL MEASURING APPARATUS
Elihu Root III, Springfield, Vt.
Application December 27, 1948, Serial No. 67,277
10 Claims. (Cl. 33—199)



1. Measuring apparatus comprising a follower to engage a piece to be measured, drive means for causing relative motion between said piece and the follower, optical means for accurately measuring the linear displacement caused by said motion in terms of wavelengths of light, a recorder having means for moving a record sheet in accordance with the motion of the drive means, a marking device for the recorder, means for effecting a traverse of the marking device relative to the sheet at a rate determined by the motion of the drive means, and means for applying successive activating impulses to the marking device at regular displacement intervals of said relative movement between the piece and the follower, to cause successive points to appear on the record sheet, one coordinate of their position being dependent on the motion of the drive means and the other on the relative motion of the piece and its follower.

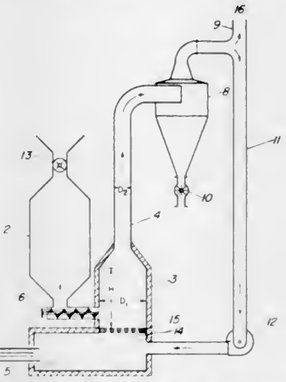
2,666,268
COMPASS SYSTEM
Waldo H. Kliever, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 26, 1947, Serial No. 793,819
17 Claims. (Cl. 33—204)



1. A compass system comprising in combination: a cathode ray tube having an electron gun, emitting a vertical beam of electrons deflectable by a magnetic field, and sector shaped target plates mounted in symmetrical pairs for variable relative impingement by said beam to give variable target currents; means connected to each pair of oppositely disposed plates to derive from

the difference between the target currents therethrough a voltage determined thereby, said voltages being proportional to the components of said magnetic field along the pair of axes about which said pairs of plates are respectively symmetrical; a resolver comprising a pair of voltage dividers, each including a resistance unit and a slider making movable contact therewith, and means mounting said units and said sliders for simultaneous relative movement so that the output from each voltage divider is a function of said movement; means impressing said voltages upon said resistance units; motor means connected to said sliders for causing said movement; voltage responsive means energizing said motor means when said sliders are not at the same potential; and heading indicating means actuated by operation of said motor.

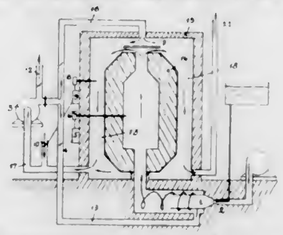
2,666,269
METHOD OF DRYING SOLIDS IN A FLUIDIZED BED
Vernon F. Parry, Golden, Colo., assignor to the United States of America as represented by the Secretary of the Interior
Application August 22, 1949, Serial No. 111,752
9 Claims. (Cl. 34—10)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A method of drying solids in a fluidized bed comprising continuously feeding a moist solid in granular form to the lower portion of a fluidized bed, injecting substantially inert gases at a temperature of the order of 2000°–3000° F. into the said moist solid, controlling the rate of feed of said moist solid and the volume and temperature of said gases whereby the temperature at the top of said bed is of the order of 300° F., entraining dried solid at the top of said bed by increasing the velocity of the effluent gas stream and then separating the entrained solid from the effluent gases.

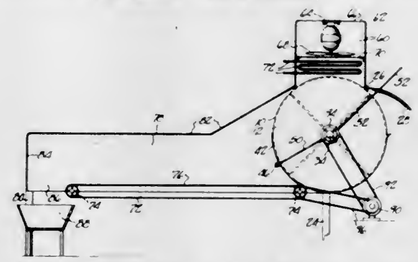
2,666,270
DRYING REFRACTORY LININGS OF FURNACES
Paul Blanchard, Paris, France
Application March 23, 1951, Serial No. 217,083
Claims priority, application France May 5, 1950
2 Claims. (Cl. 34—47)

1. An arrangement for drying the refractory lining of an industrial furnace comprising, in combination, a casing adapted to enclose a furnace to be treated and having an inner surface adapted to be spaced from said furnace; a source of heat; first conduit means communicating with said source of heat and adapted to supply heated air to the interior of the furnace; second conduit means communicating with said source of heat on one end and with the interior of said casing at the other end so as to conduct heated air to the outside of the furnace; blower means communicating at the suction side thereof with the interior of said casing and at the pressure



side thereof with said second conduit means intermediate said source of heat and said casing; outlet means in said casing adapted to communicate with the atmosphere; damper means located in said second conduit means between said blower means and said source of heat; and temperature sensitive means controlling said damper means so as to regulate the amount of gases passing through said damper and to said source of heat.

2,666,271
LAUNDRY SHAKER AND CONDITIONER
Fred A. Mann, Jr., South Bend, Ind.
Application December 21, 1950, Serial No. 201,899
7 Claims. (Cl. 34—181)

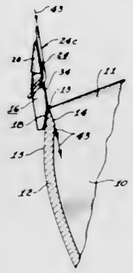


1. A laundry shaker and conditioner comprising a housing having a substantially cylindrical portion and a pair of end walls, said housing being positioned with its axis substantially horizontal and having a feed opening in its cylindrical portion above the level of said axis and a discharge opening therein substantially opposite said feed opening and below the level of said axis and extending substantially full length of said housing, a shiftable closure for said feed opening, a shiftable closure for said discharge opening, an actuator for said discharge closure having a handle portion positioned adjacent to said feed opening, a rotor journaled in said housing, and means for driving said rotor.

2,666,272
EXCAVATOR BUCKET TOOTH
Woodrow W. Everett, Phoenix, Ariz., assignor, by mesne assignments, to Earth Equipment Corporation, Los Angeles, Calif., a corporation of California
Application October 16, 1950, Serial No. 190,407
4 Claims. (Cl. 37—142)

1. An excavator bucket tooth device for an excavator bucket comprising a support member

fixed to said bucket, a tapered truncated conical portion formed on said support member, a flattened surface on one side of said support member facing in the direction of digging force applied to said device, a demountable tooth comprising a plate member, a tip on the outer end of said plate member, a truncated conical socket portion formed on the opposite side of said plate member from the surface thereof facing in the direction of digging force and engaging over said



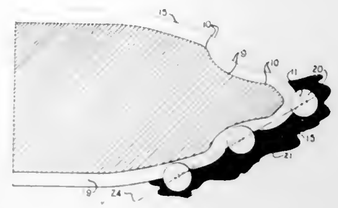
truncated conical portion of said support member, the rear surface of said plate member engaging the flattened surface on said support member, a resilient locking member inclined away from the digging face of said tip in the direction of said truncated conical socket portion, having an opening through which said support member projects into said truncated conical socket portion, and a locking edge on said resilient locking portion engaging said support member on the opposite side from said flattened surface thereof.

2,666,273
TRENCHING MACHINE
Glenn W. McIninch, Omaha, Nebr., assignor to Auburn Machine Works, Inc., Auburn, Nebr., a corporation of Nebraska
Application April 4, 1950, Serial No. 153,967
2 Claims. (Cl. 37—191)



1. For use with a trenching machine having an endless loop of digger chain with a series of digger-bit holders mounted thereon, each of said holders having a clamp defining a pentagonal opening with an abrupt shoulder extending into the latter near the trailing end of said clamp and a transverse bolt lying at least partially within said opening, a digger-bit having a shank portion of pentagonal cross section of a size adapted to be gripped in said clamp, and a blade portion, said blade portion having a transverse cutting edge and a bevelled lower working face extending rearwardly and downwardly from said cutting edge to the opposite side face of said shank portion, said blade portion also having a rearwardly extending upper face of triangular shape to provide side draft for said lower working face, the shank portion of said digger-bit having a plurality of transverse grooves spaced from the rearward end of said digger-bit a distance corresponding to the distance between the transverse bolt and the shoulder of said holder to locate positively the blade of said digger-bit in a selected one of a plurality of predetermined angular positions relative to said holder.

2,666,274
LAUNDRY FLATIRON
Edward Sokolik, New Brighton, Minn.
Application October 6, 1950, Serial No. 188,779
1 Claim. (Cl. 38—93)



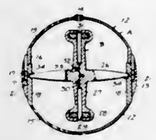
A laundry flat iron for pressing fabric having a row of buttons secured thereto comprising, a body portion having a lower flat ironing face, said body portion having sides, the forward portions of said sides converging forwardly and providing a forward tapered portion, said sides having a continuous recess which extends from the rear end of one side to the rear end of the other side and around the reduced end of the forwardly tapered portion, said recess forming a flange, the lower face of said flange forming a continuation of said ironing face, the upper face of the flange being disposed adjacent to said ironing face so that the flange is vertically thin, said flange being provided upon each side of the forwardly tapered portion with two convex outer edges and a concave outer edge disposed between the said convex outer edges, said outer edges being arranged in a longitudinal group which longitudinal group is confined within the length of the forwardly tapered portion, the inner wall of the recess upon each side of the body portion conforming to the contour of the outer edges of the flange, the arrangement being such that the buttons will enter the recess and slide upon the vertically thin flange and will be held in a generally horizontal position.

2,666,275
FISHING PLUG
Milton E. Smith, Logan, Iowa
Application November 21, 1952, Serial No. 321,809
5 Claims. (Cl. 43—42.06)



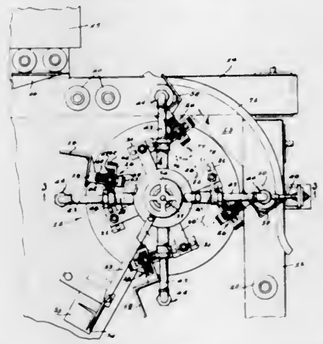
1. In a fish lure, a body portion, a resilient sack inside said body portion adapted to hold a liquid, a liquid exhaust member communicating with the inside of said sack and the outside atmosphere, a lever arm hinged to said body portion and in operative engagement with said resilient sack, a water contacting member secured to said lever arm and positioned outside the confines of said body portion, and at least one fish hook secured to said body portion.

2,666,276
GYROSCOPIC AERIAL TOP
James H. Huff, West Los Angeles, Calif.
Application July 16, 1952, Serial No. 299,137
3 Claims. (Cl. 46—50)



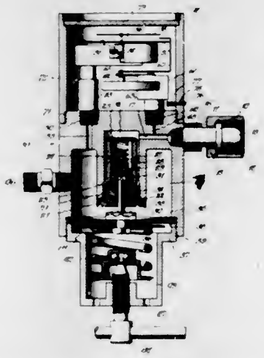
1. In a gyroscopic toy, a generally spherical shell comprising mating shell sections each including a polar zone of spherical conformation and a lateral wall of cylindrical shape, cooperating with that of the other shell section to define an equatorial zone lying below the extended spherical contour of the shell; lugs extending circumferentially along the rims of said cylindrical portions in circumferentially spaced relation and projecting radially outwardly; said shell having diametrically opposed bearing recesses; a rotor having a staff the ends of which are journalled in said recesses, and comprising axially spaced disc members and a hub joining said disc members; a cable adapted to be wound around said hub for rotating the rotor; and a union ring having a cylindrical internal wall rotatably fitted to the lateral walls of the shell sections for rotation thereon, and including retainer lugs axially opposed and spaced to define an annular equatorial space to receive the lugs of said shell sections, said retainer lugs being circumferentially spaced to provide ports through which the lugs of said shell sections may be inserted in order to reach said equatorial space, with the subsequent rotation of said union ring serving to lock said shell section lugs between said axially opposed retainer lugs.

2,666,277
APPARATUS FOR FIRE FINISHING GLASS ARTICLES
Burton A. Noble, Oakland, Calif., assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application March 28, 1951, Serial No. 218,040
6 Claims. (Cl. 49—58)



2. An apparatus for fire-finishing glass articles comprising a table mounted for rotation about a vertical axis, a series of article pushing and guiding devices pivotally mounted on said table, a series of burners mounted to travel in a closed path about said vertical axis, means for rotating the table and driving said burners, said pushing and guiding devices comprising upright contacting surfaces for engagement with the upright surfaces of articles in register with the burners, means for pivotally moving the pushing and guiding devices for swinging movement relative to the table during the rotation of the table into register with the burners during a portion of the closed path of the burners and with said contact surfaces positioned behind and in contact with the said articles, and means for supplying combustible fuel to said burners when the pushing and guiding devices are in register with the burners.

2,666,278
PRESSURE REGULATOR
John L. Matasovic, Chicago, Ill.
Application May 25, 1948, Serial No. 29,183
6 Claims. (Cl. 50—23)

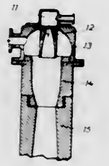


1. In a pressure regulator, the combination of an inlet passage and a high-pressure chamber comprising a generally cylindrical cavity having one closed end and screw threads adjacent the open end; a threaded nozzle fitted to said screw threads to close the chamber; said nozzle including a central gas passage and a central male screw portion projecting into the cavity, said screw portion being an integral part of the nozzle and having an annular valve seating surface surrounding the gas passage; together with a valve housing of generally cylindrical shape threaded to the screw portion of the plug at one end and closed by a filter disc of porous metal at the inner end; said housing fitting closely within the cavity of the high-pressure chamber but spaced therefrom to provide a narrow annular crevice adapted to receive any particles of dust introduced into the chamber.

2,666,279
NOZZLE FOR EXPANSION AND COMPRESSION OF GASES
Joseph Aron Chalom, Paris, France
Original application January 17, 1949, Serial No. 71,339, now Patent No. 2,583,726, dated January 29, 1952. Divided and this application March 3, 1950, Serial No. 147,461
Claims priority, application France January 26, 1948
1 Claim. (Cl. 51—11)

A tubular multistage nozzle comprising as part of its boring a plurality of supersonic exhaust portions of concave profile in relation to the nozzle axis, arranged in series, said inlet portion having a substantially conically converging axial section ending in a throat having the smallest cross-section of the nozzle, the first exhaust por-

tion which extends from said throat in the direction towards the exhaust end of the nozzle, having a profile concave in relation to the nozzle axis and being so formed near said throat that the tangent to it, starting from said throat, encloses with the nozzle axis an angle ranging between about ten and fifteen degrees, the second exhaust portion arranged in series with said first one having a profile concave in relation to the



nozzle axis and starting with a cross-sectional area of passage about equal to the cross-sectional area of the end of said first exhaust portion, the tangent of the first part of said second exhaust portion enclosing with the nozzle axis an angle ranging between about ten and fifteen degrees and the tangents to the successive sections of said second exhaust portion enclosing with said axis successively smaller angles.

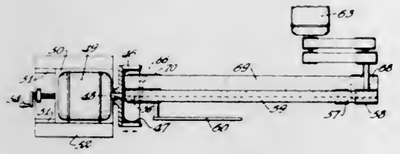
2,666,280

ABRADING THE INTERIOR SURFACES OF HOLLOW WARE

Richard G. Riedesel, Stillwater, Theodore J. Miller, St. Paul, and Lawrence A. Martin, White Bear Township, Ramsey County, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Original application May 31, 1947, Serial No. 751,590, now Patent No. 2,573,220, dated October 30, 1951. Divided and this application July 26, 1951, Serial No. 238,662

5 Claims. (Cl. 51—142)



1. In a machine for abrading the interior surfaces of hollow ware, a work holding chuck, means for rotating the chuck, means for effecting reciprocal axial movement of the chuck; a first abrasive belt assembly comprising rotatably mounted pulleys for supporting an endless abrasive belt, one of the pulleys being positioned adjacent the face of the chuck to serve as a contact wheel to apply the belt to the slide surface of the work, means for mounting the contact wheel for movement in a plane determined by the chuck's axis, and means for rotating one of the pulleys to drive the belt; and a second abrasive belt assembly comprising rotatably mounted pulleys for supporting an endless abrasive belt, one of the pulleys being positioned adjacent the face of the chuck to serve as a contact roll to apply the belt to the bottom surface of the work, and means for rotating one of the pulleys to drive the belt.

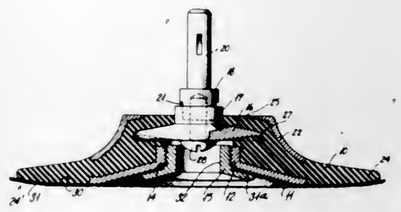
2,666,281

BACK PAD

Berne Tocci-Guilbert, San Francisco, Calif., assignor to Berne Tocci-Guilbert, San Francisco, and Henry Gifford Hardy, Berkeley, Calif., jointly as trustees

Application March 11, 1950, Serial No. 149,138

3 Claims. (Cl. 51—197)



2. Polishing and abrading apparatus of the character described, comprising a top plate adapted to serve as an abutment and holding means for an abrasive disc, a stabilizing plate spaced therefrom in concentric relation thereto, a body of resilient material disposed between said plates and encompassing both sides of said stabilizing plate forming a unitary integral structure, and means for coupling said stabilizing plate to a shaft for rotating said apparatus about the common axis of said plates, and means cooperating with said top plate only for clamping an abrasive disc to said base plate.

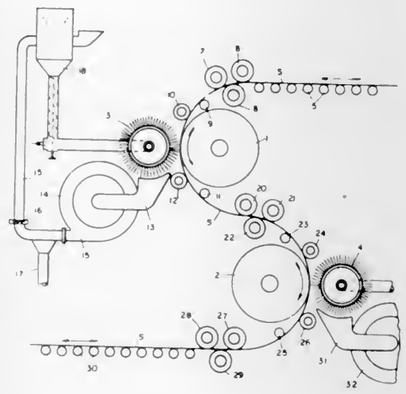
2,666,282

METHOD OF CONDITIONING METAL SHEETS, STRIPS, RODS, AND THE LIKE

Ruben O. Peterson, University Heights, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application April 19, 1951, Serial No. 221,906

7 Claims. (Cl. 51—282)



1. In a method of removing scale from a metal sheet, the steps which comprise flexing the sheet, brushing the convex face of the latter, and simultaneously supplying to the face thus being brushed an abrasive consisting substantially entirely of previously removed scale particles.

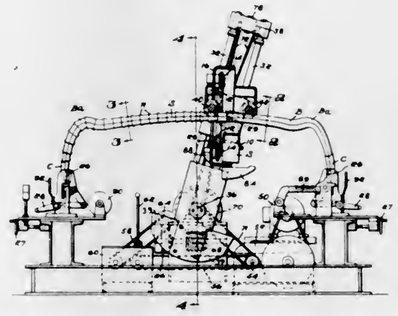
2,666,283

WRAPPING MACHINE FOR IRREGULARLY CURVED ARTICLES

Ernest R. Dearborn, Ashland, Mass., assignor to Angier Corporation, Framingham, Mass., a corporation of Massachusetts

Original application February 21, 1950, Serial No. 145,454. Divided and this application October 19, 1951, Serial No. 252,169

14 Claims. (Cl. 53—104)



1. A wrapping machine for an irregularly curved article comprising spaced supporting means for supporting the article at its ends, a rotary wrapping shuttle for encircling the intermediate portion of the article between its ends, a supporting frame for the shuttle, a carrier for the frame, means for moving the carrier to carry the shuttle through a path approximating the longitudinal contour of the article, the supporting frame being mounted on the carrier for relative movement thereon transversely of said path, and a follower carried by the frame for cooperating with a guiding surface for transversely positioning the shuttle substantially centrally to the article as it moves along the same.

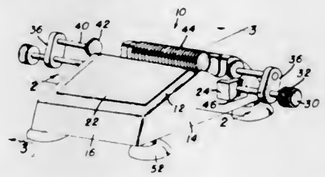
2,666,284

COIN-WRAPPING DEVICE

Joseph Scheidt and Lester A. Teegardin, Streator, Ill.

Application January 16, 1953, Serial No. 331,679

3 Claims. (Cl. 53—114)



1. A coin wrapping and measuring device comprising a body having a transverse arcuate groove across the top thereof, pillow blocks mounted on the sides of said body, rods slidably and rotatably disposed in said blocks having their adjacent ends disposed within said body and their remote ends disposed exteriorly of said body, resilient means connecting the adjacent ends of said rods and urging them toward one another, arms mounted on said rods adjacent the remote ends thereof, extensions on said arms slidably disposed in said groove for holding coins therebetween, said arms abutting said blocks to limit the inward movement of said rods toward one another, and means on said rods for maintaining said extensions out of engagement with said grooves.

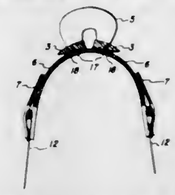
2,666,285

LATIGO RIGGING FOR SADDLES HAVING SKIRTS

Domingo O. Diaz, Phoenix, Ariz.

Application March 14, 1952, Serial No. 276,517

6 Claims. (Cl. 54—44)



1. Saddle rigging, including a saddle tree having rails, skirts attached to the underfaces only of said rails and extending downwardly and outwardly therefrom; latigo bars secured to the lower edge portions of said skirts and latigos, attached to said bars; said saddle tree riding upon said skirts so that its rails are not forced on to the horse's back when said skirts are cinched tight.

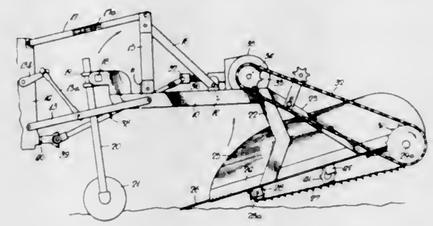
2,666,286

TILTABLY MOUNTED ROOT HARVESTER

Wiley D. Poole, Baton Rouge, La., assignor to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College, Baton Rouge, La.

Application March 21, 1950, Serial No. 150,987

3 Claims. (Cl. 55—51)



1. A root harvester including a substantially horizontally disposed frame adapted to be moved endwise over and along a row of roots in the soil, a pair of rotatable soil looseners connected to and below the front end of said frame, a root digger and conveyor rearwardly spaced from said soil looseners and secured to and below the other end of said frame, a pair of fixed traction bars each having its rear end pivotally secured to said frame approximately midway between the rear edges of said soil looseners and the front end of said digger, whereby said frame may tilt and as either said soil looseners or said digger moves up or down the other moves in the opposite direction, and means for limiting the extent of the free tilting movement of the frame in respect to the traction bars.

2,666,287

COMBINE PLATFORM HAVING ROTARY CUTTING MEANS

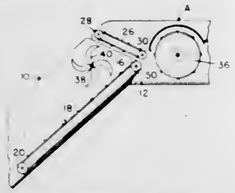
Newton L. Atteberry, Mendon, Mo.

Application August 3, 1953, Serial No. 372,045

8 Claims. (Cl. 56—122)

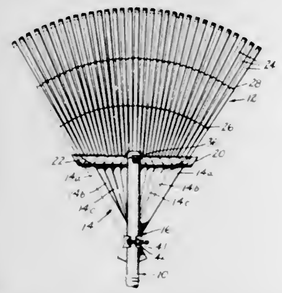
1. In a combine, a first conveyor belt, said belt being upwardly and rearwardly inclined and having a front and a rear end, a second conveyor belt overlying said first belt, said second belt being rearwardly converging with relation to said first

belt and having a front and a rear end, said rear end of said second conveyor belt being located adjacent the rear end of said first conveyor belt, and spaced therefrom, a threshing cylinder adjacent the said conveyor rear ends, and a rotating cutting means comprising a plurality of blades which are dish-shaped in cross section, said cutter



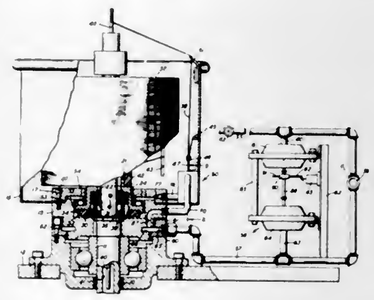
means being located over said first conveyor belt and in front of said second conveyor belt and closely adjacent said conveyor belt rear ends, whereby the weeds and grain stalks carried by said first conveyor belt are chopped into small segments before entering the space between the rear ends of said conveyor belts.

2,666,288
BAMBOO RAKE HANDLE ATTACHING STRUCTURE
Richard Noriaki Kimura, Seattle, Wash.
Application March 25, 1950, Serial No. 151,907
4 Claims. (Cl. 56—400.17)



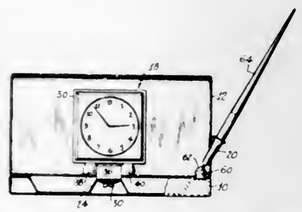
1. In a bamboo rake, a rake head incorporating a plurality of bamboo strips arranged generally in the shape of a fan with the butt ends of the strips being disposed in a stack, the butt ends of the side strips of the head being at one extremity of said stack, crossed in said stack and diverging oppositely, and the butt ends of the central strips of the head being at the other extremity of said stack, a handle pole engaged with the side strip extremity of said stack of strip butt ends, and a generally U-shaped sheet metal band clamp encircling said stack of strip butt ends and the handle and having a crossband engaging the central strip extremity of said stack remote from said handle pole, band sides joined to said crossband and extending alongside said stack of strip butt ends, and free end portions of said band sides embracing said handle pole, each of said band sides having, generally centrally between its free end and said crossband, troughs in its opposite edge portions projecting outwardly from the portion of such band side between such edge portions and away from the other band side, and said troughs being tapered in width and depth toward each other and receiving the edges of the side strips of the rake head at their point of crossing, and means interconnecting the free end portions of said clamp's band sides at the side of said handle pole remote from said stack of strip butt ends and holding said clamp's free end portions in position pressing said handle pole tightly against said stack of strip butt ends.

2,666,289
BRAKE FOR STRAND HANDLING APPARATUS
Tillman T. Bunch, Ashland, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 15, 1949, Serial No. 133,164
15 Claims. (Cl. 57—19)



15. A brake for tensioning strands withdrawn from strand handling apparatus, which comprises a support, a shaft positioned on the support, a spindle rotatably positioned on the free end of the shaft and designed to carry a cop containing a supply of strand material, said spindle having a surface in close proximity to a surface of the support, means for withdrawing the strand from the cop and causing rotation of the spindle, fluid pressure actuated means for causing the surfaces to engage each other with a force sufficient to retard the rotation of the spindle and to tension the strand being withdrawn from the cop, means responsive to the tension on the strand for controlling the fluid pressure actuated means so as to maintain uniform predetermined tension on the strand as it is withdrawn from the cop, and means for selectively adjusting the value of the predetermined tension on the strand while the strand handling apparatus is in operation.

2,666,290
TRAVELING DESK SET
Solomon Kaufman, New York, N. Y.
Application January 30, 1951, Serial No. 208,546
1 Claim. (Cl. 58—56)



In a combined travel clock and desk set, a case having a hinged cover, a hollow pedestal in said case, at least the top of said pedestal being circular, said pedestal having a hole formed in the center thereof, a screw projecting upwardly from the inside of said pedestal through said hole, a spring washer threaded on said screw between its head and the pedestal, a clock support secured to said upwardly projecting screw and being thereby adapted to engage in swivelling movement either rightwardly or leftwardly on the vertical axis of said screw, said clock support being at least as long as the diameter of the said pedestal top, a clock, a pair of lugs fixedly secured to the bottom of said clock in spaced apart relation, the space between the lugs being slightly greater than the length of the clock support to receive the clock support between them, a pair of cylindrical pins projecting inwardly coaxially toward each other from the confronting sides of said lugs, said pins extending into axially aligned holes formed in opposite ends of the clock support, said clock being thereby adapted to engage in pivotal movement either upwardly or downwardly on the horizontal axis of said pins; and a well formed in said case adjacent said pedestal to receive the clock when it pivots downwardly.

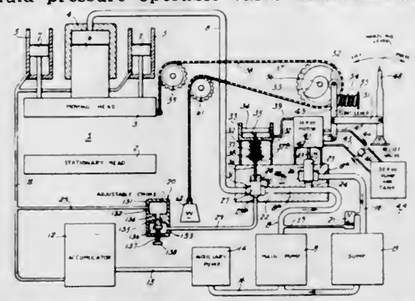
2,666,291
JET PIPE HAVING A DISCHARGE END PORTION OF VARIABLE CROSS SECTIONAL AREA
Jan Skorecki, Burnley, England, assignor to Joseph Lucas Limited, Birmingham, England
Application December 19, 1950, Serial No. 201,504
4 Claims. (Cl. 60—35.5)



1. Means for exerting pressure on the exterior of a longitudinally corrugated and elastically deformable discharge end portion of a jet tube to reduce the cross sectional area thereof in the vicinity of at least the outer end thereof, comprising in combination at least one chain of annular form for embracing said end portion, said chain being composed of links having pin-and-slot connections therebetween to render said chain contractible, a fixed annular housing of trough-like form containing said chain, at least one flexible cable embracing said chain for effecting contraction thereof, and guide means connecting said links to said housing whilst allowing radial movement of said links relatively to said housing.

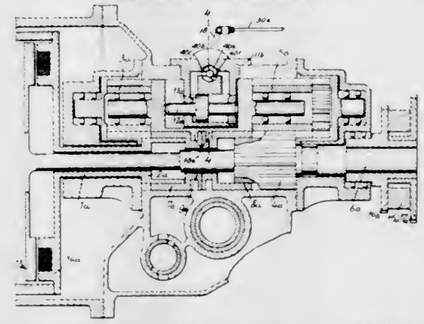
2,666,292
CONTROL SYSTEM FOR HYDRAULIC PRESSES
Florence C. Biggert, Jr., Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 18, 1948, Serial No. 15,613
13 Claims. (Cl. 60—51)

1. A control system for hydraulic presses equipped with a main piston-cylinder assembly and a balancing piston-cylinder assembly for the movable head of the press, the main cylinder having an area greater than that of the balance cylinder, comprising a source for supplying a constant volume of fluid at varying pressures connected to the main cylinder, a constant pressure source of fluid for the balancing cylinder, a fluid pressure operable valve interconnecting



the balancing cylinder and the main cylinder to effect rapid lowering of the movable press head, yieldable pressure means disposed to normally urge said interconnecting valve towards its closed position, and other pressure means which is selectively operable for offsetting the effect on said interconnecting valve of said first-mentioned pressure means.

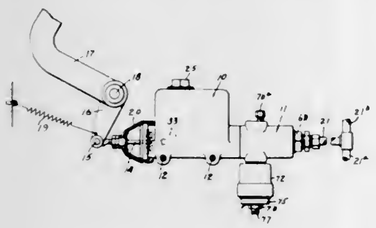
2,666,293
ROTARY PUMP AND MOTOR HYDRAULIC TRANSMISSION
Marcel Victor Vigneau, Suresnes, France
Application April 20, 1950, Serial No. 156,956
Claims priority, application France April 21, 1949
4 Claims. (Cl. 60—53)



2. A hydraulic transmission, comprising in combination, a drive shaft; a driven shaft; a rotary pump mounted on said drive shaft and having an effective chamber of variable volume and including a movable element increasing the volume of said effective chamber when moving in one direction so as to increase the output of said pump, and reducing the volume of the effective chamber when moved in the opposite direction; a rotary hydraulic motor mounted on said driven shaft having an effective chamber of variable volume and including a movable element decreasing the volume of said effective chamber of said hydraulic motor when moved in said one direction and increasing the volume of said effective chamber of said hydraulic motor when moved in said opposite direction; reciprocable connecting means connecting said movable element of said pump with said movable element of said hydraulic motor so that movement of said connecting means in said one direction causes movement of said movable elements and an increased speed of rotation of said hydraulic

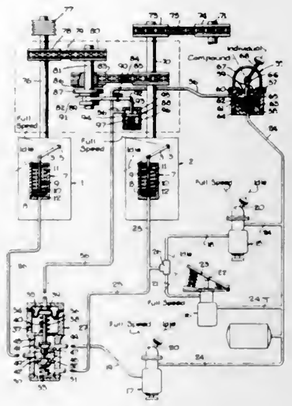
motor and said driven shaft, and movement in said opposite direction causes movement of said movable elements and a decreased speed of said hydraulic motor and said driven shaft; operating means including a cylinder, a reciprocable piston mounted in said cylinder, valve means mounted on said cylinder and operable to admit a liquid to the same for reciprocation of said piston, lever means acting on said valve means on one end and secured to said connecting means on the other end to open and close said valve means, and a link connecting said piston with said connecting means for moving the same in said directions; coupling means movable between an engaged and a disengaged position, and in engaged position connecting said drive shaft and said driven shaft for direct drive, said coupling means being operatively connected to said connecting means so as to be moved into engaged position by the same when said connecting means assumes a predetermined position; torque responsive means mounted on said driven shaft relatively movably thereto and being moved for a predetermined distance corresponding to the torque exerted on said driven shaft; and actuating means connecting said torque responsive means with said lever means of said operating means so that said lever means moves said connecting means to said predetermined position in which said coupling means is moved to engaged position when said torque responsive means moves for a predetermined distance indicating a small difference between the speed of the drive shaft and the speed of the drive shaft.

2,666,294
COMPOUND HYDRAULIC MASTER CYLINDER CONSTRUCTION
Gilbert E. Porter, Los Angeles, Calif., assignor of forty-nine one-hundredths to Everett F. McClaren, Los Angeles, Calif.
Application July 24, 1951, Serial No. 238,231
14 Claims. (Cl. 60—54.6)



1. In a master cylinder construction for a hydraulic control system, the combination comprising: a housing providing a fluid reservoir and two adjoining cylinders of different diameters; a first piston reciprocable in the cylinder of larger diameter; a second piston reciprocable in the cylinder of smaller diameter; fluid passage means extending between the reservoir and the larger cylinder; separate fluid passage means extending between the larger cylinder and the smaller cylinder; a fluid outlet from the smaller cylinder; an auxiliary chamber of variable volume adapted to receive fluid; fluid passage means connecting the larger cylinder to the auxiliary chamber; and means tending to contract the volume of the auxiliary chamber to force fluid through said last mentioned passage means back into the larger cylinder.

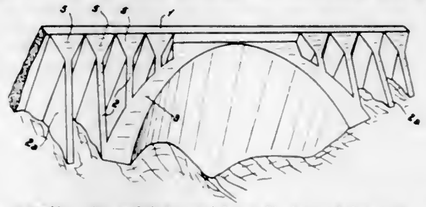
2,666,295
FLUID PRESSURE ENGINE COMPOUNDING AND SPEED CONTROL APPARATUS
Roy R. Stevens, Forest Hills, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Original application September 22, 1948, Serial No. 50,596, now Patent No. 2,642,969, dated June 23, 1953. Divided and this application December 20, 1949, Serial No. 133,969
1 Claim. (Cl. 60—97)



Fluid pressure apparatus for controlling operation and compounding of two engines comprising respective speed control means and respective power output shafts, the combination, of a first fluid pressure actuator responsive to variations in pressure of fluid in a first pressure chamber to adjust one of said speed control means, a second fluid pressure actuator responsive to variations in pressure of fluid in a second pressure chamber to adjust the other of said speed control means, fluid pressure operated clutch means responsive to supply and release of fluid under pressure to and from a third pressure chamber to establish and disestablish, respectively, connection of said output shafts, a fluid pressure conduit, relay valve means responsive to supply and release of fluid under pressure to and from said third pressure chamber to connect said second pressure chamber selectively to said first pressure chamber and to said conduit, respectively, clutch control valve means to supply and release fluid under pressure to and from said third pressure chamber, and a pair of operator's speed control valve devices to vary pressure of fluid in said first pressure chamber and in said conduit, respectively.

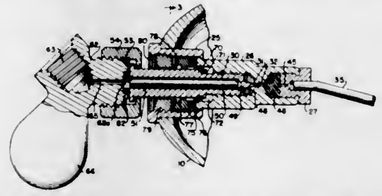
2,666,296
DAM
André Coyne, Jean Géhin, and Jean Bellier, Paris, France
Application December 11, 1951, Serial No. 261,111
Claims priority, application France December 11, 1950
10 Claims. (Cl. 61—30)

1. A concrete dam comprising a substantially flat impounding wall, an arch at least a portion of which extends downstream of said wall, the concave side of said arch facing downstream, and spaced rigid interconnecting means between said wall and said downstream portion of the arch, said wall, said arch portion and said interconnecting means forming a monolithic structure, whereby all the mechanical forces, including that



of gravity, to which said wall is subjected, are transmitted from said wall to said arch.

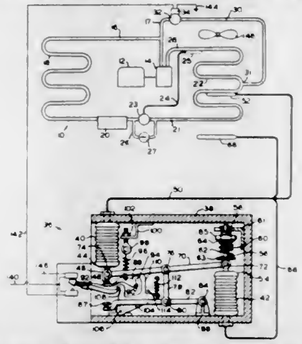
2,666,297
CONTAINER AND DISCHARGE VALVE THEREFOR
Elmer C. Skousgaard, Los Angeles, Calif.
Application March 14, 1950, Serial No. 149,537
6 Claims. (Cl. 62—1)



1. A cartridge container for liquefied petroleum gases and the like, comprising: a hollow casing; a sleeve mounted in said casing, said sleeve having a valve port in its inner end through which gas may pass out of the casing; a cylindrical valve member adjustably threaded into the sleeve to control the opening of said valve port; a resilient sealing member between the valve and the sleeve; a sealing ring surrounding the valve member and carrying two resilient sealing members positioned respectively to prevent escape of gas between the sleeve and the casing and between the valve member and the ring, and a nut removably threaded into the casing to force said two last named sealing members into operative positions; communicating means connecting the valve port with the interior of the casing; and flow restricting, pressure reducing means in the communicating means.

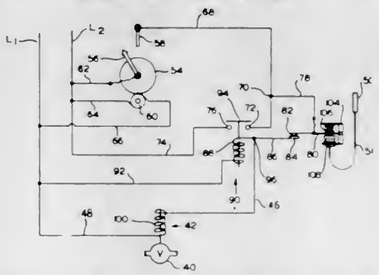
2,666,298
METHOD AND MEANS OF DEFROSTING A COLD DIFFUSER
Frederick M. Jones, Minneapolis, Minn., assignor to U. S. Thermo Control Co., Minneapolis, Minn., a corporation of Minnesota
Application November 1, 1950, Serial No. 193,340
12 Claims. (Cl. 62—3)

1. In combination with a refrigeration plant having a high pressure side and a low pressure side, means for circulating air in contact with the low pressure side, a conduit connecting said sides for conducting hot gas from the high pressure side to defrost the outer surface of the low pressure side, a two-position valve in said conduit for controlling the flow of said gas, an electric operator connected to said valve, a switch connected to said valve, means for operating said switch comprising a first thermal motor responsive to the surface temperature of the low pressure side, a second thermal motor responsive to the space temperature ambient to the low pressure side, a first lever connected to both of said motors, a second lever connected to the first lever, and switch operating means extending between



movable ends of said levers and operated by the conjoint action of both of said motors.

2,666,299
REFRIGERATOR DEFROSTING CONTROL
Myer S. Sutton, Minneapolis, Minn., assignor to The U. S. Thermo Control Co., Minneapolis, Minn., a corporation of Minnesota
Application April 8, 1950, Serial No. 154,780
3 Claims. (Cl. 62—4)

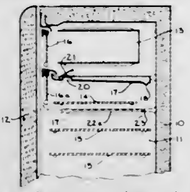


1. A system for controlling the operation of a defrosting control device, comprising a first circuit including a motor operatively connected to the control device and which when energized activates the control device to initiate defrosting of a cold diffuser, a source of power, a normally closed switch in the circuit between the source of power and the motor, a normally open switch in the circuit between the source of power and said first named switch, said second named switch which when closed being effective to energize said motor, a relay solenoid in said circuit which is energized simultaneously with the motor and concurrently closes a pair of relay contacts, and a second circuit including the source of power, said relay contacts, said first named switch, the relay solenoid and said motor, said second circuit being effective to maintain energization of the motor independent of the second named switch, said first named switch on opening being effective to de-energize either of said circuits.

2,666,300
REFRIGERATOR CABINET
Homer E. Rosebrook, Greenville, Mich., assignor to Gibson Refrigerator Company, Greenville, Mich., a corporation of Michigan
Application July 15, 1948, Serial No. 38,899
1 Claim. (Cl. 62—103)

In a refrigerator cabinet having an evaporator compartment and a second compartment im-

mediately below said evaporator compartment, said compartments being substantially coextensive horizontally with the interior of said cabinet and having provision for air communication between said compartments, the improvement which comprises a drip pan baffle substantially coextensive in a horizontal direction with said compartments, means in said cabinet for removably mounting said drip pan baffle at the



top of said second compartment, and means in said cabinet for removably mounting said drip pan baffle at the bottom of said second compartment said drip pan baffle being capable of association with said evaporator compartment or said second compartment whereby to change the temperature of the second compartment and to collect drip from said second compartment as well as drip from said evaporator compartment.

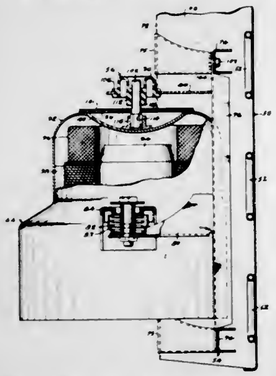
2,666,301

MOUNTING REFRIGERATING APPARATUS

Ralph W. Doeg, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland

Application February 11, 1949, Serial No. 75,896

4 Claims. (Cl. 62—117.4)



1. In refrigerating apparatus, a mounting member support, a motor-compressor casing supported by said mounting member support, lower resilient mounting means carried by said support and arranged as the sole support of said motor-compressor casing, an upper resilient member carried by said support solely to suppress motor-compressor noises, and a noise transmitting member operatively connecting said motor-compressor casing and said upper resilient member.

2,666,302

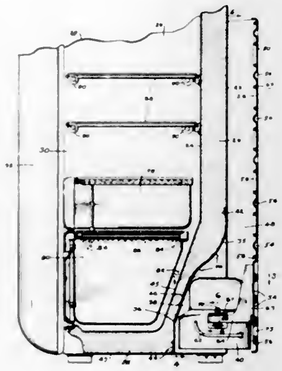
REFRIGERATING APPARATUS AND CABINET STRUCTURE

Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland

Application April 6, 1951, Serial No. 219,592

5 Claims. (Cl. 62—117.4)

5. In a refrigerator, a cabinet, a wall member spaced from a wall of said cabinet to form a flue, a refrigerant motor-compressor unit disposed between said wall member and the wall of said cabinet to be cooled by air ascending the flue, said wall member having spaced horizontally extending reinforcing ribs, a refrigerant condenser coil mounted on and to the inner surface of said



wall member, said coil being sinuously bent and arranged to have horizontal runs respectively disposed in the spaces between said reinforcing ribs, and vibration dampener mountings supporting said compressor and secured to said reinforcing ribs.

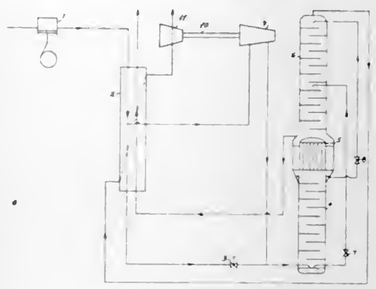
2,666,303

APPARATUS FOR THE SEPARATION OF GAS MIXTURES BY LIQUEFACTION AND RECTIFICATION

Paul Maurice Schuftan, Richmond Hill, England, assignor to The British Oxygen Company Limited, London, England, a British company

Application June 8, 1950, Serial No. 166,975

2 Claims. (Cl. 62—123)



1. Apparatus for the separation of a gas mixture by liquefaction and rectification into a higher-boiling fraction and a lower-boiling fraction including a rectification zone wherein said gas mixture is separated into said product fractions, an expansion turbine for subjecting at least a part of said gas mixture to isentropic expansion to provide at least a part of the cold requirements of said separation apparatus, and an axial flow blower directly coupled to said turbine and adapted to rotate at the same speed as said turbine, for reducing to a value below atmospheric the pressure at which one of the said product fractions leaves said rectification.

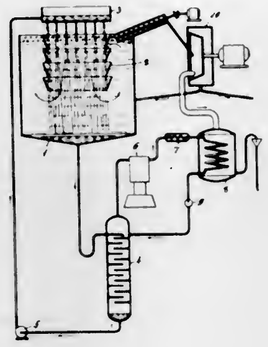
2,666,304

PROCESS FOR CONCENTRATING BY FREEZING

Per Johan Ingemar Ahrel, Sallinge, Sweden

Application April 18, 1951, Serial No. 221,698

7 Claims. (Cl. 62—170)



1. Process for concentrating a solution of at least one substance comprising establishing a continuous bulk of said solution, bringing a quantity of mercury containing an amalgam of a hydrogen displacing metal into contact with said solution, keeping said mercury in movement when in contact with said solution, cooling said mercury so as to bring portions of said solution to a temperature below its freezing point, and removing substance frozen out from said solution as a result of said cooling.

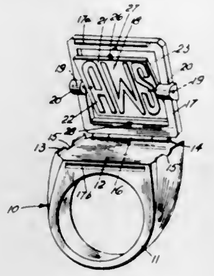
2,666,305

SWING FRAME CHANGING RING

Sandor A. Wittmayer, New York, N. Y.

Application November 25, 1949, Serial No. 129,342

9 Claims. (Cl. 63—15)



1. In a changeable ring, a top for the ring, a frame pivoted at one end of the top, a member having two sides, rotatable in said frame, ornamentations at the two sides of said member adapted to be alternately displayed upon the turning of the same, means to releasably secure said frame on said top whereby a selected side thereof will be displayed on the ring, a spring arranged between said frame and said member having a tendency to swing said member in a predetermined direction, said member having coaxial pins on which to swing, downward projections on said frame to receive said pins, and recesses in said top adapted to receive said projections.

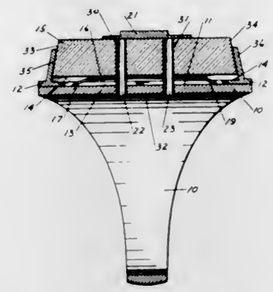
2,666,306

FINGER RING STONE MOUNTING

William Lawrence Lewis, Indianapolis, Ind., assignor to Herff Jones Co., Indianapolis, Ind., a corporation of Indiana

Application February 6, 1952, Serial No. 270,183

1 Claim. (Cl. 63—15)



A finger ring stone mounting comprising a shank having a mounting floor area; spaced apart side walls outturned from said area; end walls outturned from said area at the ends of said side walls; a ledge around and within said walls at said floor defining the margin of a recess therewithin over said floor; an outwardly convex H spring positioned freely in said recess and confined therein by said ledge, said spring having a pair of spaced apart legs extending from a central zone of the spring along respective side walls in one direction and bearing by end portions on said floor, and a second pair of spaced apart legs extending from said zone along those respective walls in the opposite direction and bearing by end portions on said floor; a stone resting on said central zone of said spring between and slidingly guided by said side walls in travel toward and away from said ledge; a crest on the outer side of the stone; a pair of spaced apart posts extending in fixed manner from said floor, one post on each side of said central zone and passing between the respective pairs of legs and through said stone to be fixed to said crest; the lengths of the posts between said floor and said crest being those which hold a stone compressively against said spring, placing the spring under compression, and having the spring space the stone outwardly from said ledge; and said end walls being abutted by ends of said stone.

2,666,307

RESILIENT COUPLING FOR GRINDING TOOLS

William J. Higert, San Francisco, Calif.

Application July 2, 1952, Serial No. 296,834

5 Claims. (Cl. 64—11)

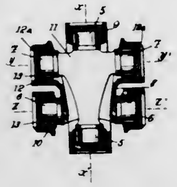
1. A coupling of the character described comprising, a pair of sections mounted with opposite sides in confronting relation and concentric to a common axis, said sections having hub portions formed for securing to a drive shaft and a grinder attachment respectively and being formed with concentric cylindrical bosses extending in an axial direction from said faces, a pad of resiliently distortable material having opposite sides engaged with said faces and formed with a hollow core receiving concentrically therein said cylindrical bosses, means clamping said faces against said pad sides to place said pad under initial resilient compression and permitting relative rotational displacement of said sections, the inside wall of said core being spaced by a predetermined clearance from said bosses, said pad being distortable

at said core into said clearance to permit relative displacement of said sections, and said bosses



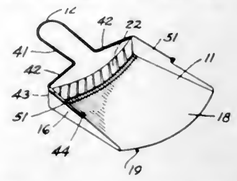
functioning to engage said pad core wall to limit the distortion thereat and the extent of relative displacement of said sections.

2,666,308
UNIVERSAL JOINT DEVICE
Gaston Robert Bouchard, Bougival, France
Application February 21, 1951, Serial No. 211,995
Claims priority, application France February 28, 1950
5 Claims. (Cl. 64—17)



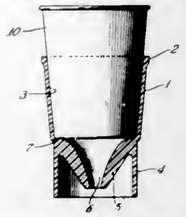
1. A universal joint transmission which comprises, in combination, two pieces pivoted to each other about a single pivot axis, and two shafts, a driven one and a driving one, pivoted to said pieces about a second pivot axis and a third pivot axis respectively, the second pivot axis substantially intersecting said first mentioned pivot axis and being at least substantially at right angles both to the shaft pivoted thereabout and to said first mentioned pivot axis, the third pivot axis being substantially parallel to said first mentioned pivot axis and located at a distance therefrom and substantially at right angles to the shaft pivoted thereabout, said last mentioned shaft being offset with respect to said third pivot axis toward the first mentioned one, the other shaft being offset with respect to the first mentioned pivot axis toward the third pivot axis, the amount of offsetting of said shafts with respect to said first and third mentioned pivot axes respectively being such that the distance between the respective axes of said shafts is substantially smaller than the distance between said first and third mentioned pivot axes, when said shafts extend in opposed parallel directions and said first and third mentioned pivot axes are substantially in a plane transverse to said directions.

2,666,309
FLEXIBLE DUSTPAN
Rolf L. Anderson, Montclair, N. J., and Otto F. Blom, New York, N. Y.
Application April 4, 1950, Serial No. 153,886
7 Claims. (Cl. 65—20)



1. In a dust pan or similar article, a bottom wall of flexible material having a thin contact or leading edge and bounded on each of two opposite sides contiguous to said leading edge by upstanding side walls, and by an articulate rear wall comprising a series of upstanding members disposed between said side walls, each of the two opposite end members in said series being united at its base with said bottom wall and at its side with an adjacent end of a said side wall, the remainder of said upstanding members each being united at its base with said bottom wall only and freely movable laterally relative to its next adjacent member when said bottom wall is flexed into a scoop formation between said side walls by application of pressure directed inwardly against said side walls.

2,666,310
HOLDER FOR BOTH FLAT BOTTOM AND CONICAL PAPER CUPS
Howard Hill, Easton, Pa., assignor to Dixie Cup Company, Easton, Pa., a corporation of Delaware
Application June 6, 1950, Serial No. 166,354
2 Claims. (Cl. 65—61)

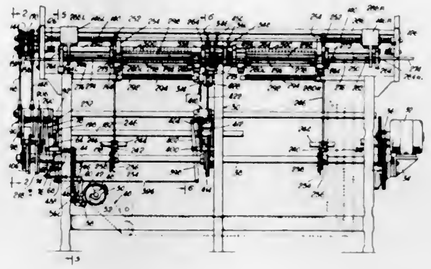


1. In a single cup nolder designed to intimately accommodate both flat bottom and conical paper cups, a tubular body portion having an open mouth and the inner wall of which tapers in keeping with the side wall of a flat bottom paper cup, and an inwardly and downwardly tapered tubular flange extending from the bottom of said body portion and forming an annular shoulder to seat a flat bottom cup at the junction line with said body portion, the inner wall of said flange being located and proportioned with respect to the mouth of said body portion as to intimately engage the apical region of a conical paper cup contacting said mouth.

2,666,311
STRAIGHT BAR KNITTING MACHINE AND A METHOD OF OPERATING SAME
Fritz Lambach, Tenafly, N. J., assignor to Robert Reiner, Inc., Weehawken, N. J.
Application February 3, 1948, Serial No. 6,063
38 Claims. (Cl. 66—89)

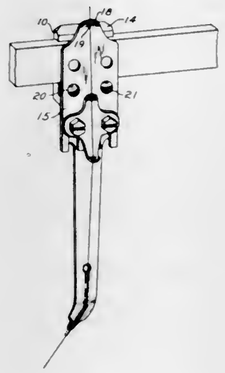
1. A straight bar knitting machine, comprising: loop transfer means for transferring loops

from needle to needle of the knitting machine during the operation thereof, said loop transfer means being swingably mounted on the knitting machine and being normally in a position out of cooperative relation to needles of the knitting



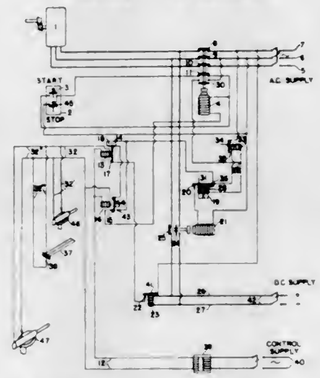
machine, and an automatic transfer means actuating drive associated with said loop transfer means for swinging same step by step into and out of cooperative relation to needles of the knitting machine at predetermined intervals.

2,666,312
BRACKET ASSEMBLY FOR SUPPORTING YARN CARRIERS
Raymond J. Good, Philadelphia, Pa., assignor to Fred C. Good & Sons, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application April 7, 1953, Serial No. 347,203
5 Claims. (Cl. 66—126)



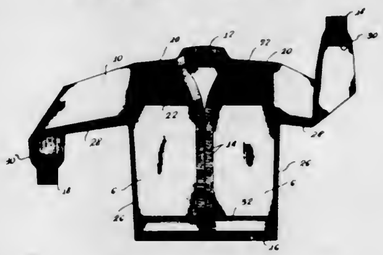
1. A bracket assembly for removably and adjustably supporting yarn carriers on the carrier rods of straight knitting machines comprising: a first plate-like element having a recessed portion extending between a pair of opposed faces thereof corresponding substantially to the width and thickness of a carrier rod; a second plate-like element adapted to overlie at least the recessed portion of said first element, the assembled pair thus defining a passageway, the cross sectional dimensions of which correspond substantially to those of the carrier rods, said second element having openings adjacent one edge thereof for attaching a yarn carrier thereto; and means for removably securing said first and second elements in surrounding relationship to a selected part of a carrier rod.

2,666,313
MOTOR CONTROL SYSTEM FOR KNITTING MACHINES
James Fred Sibley, Griffin, Ga.
Application October 23, 1948, Serial No. 56,131
2 Claims. (Cl. 66—157)



1. In a motor control system for knitting machines and the like, the combination of an electric motor arranged and connected to drive a knitting machine, an alternating current power supply, electrically operated means for connecting said motor to said power supply, a direct current supply, a control circuit having means connected thereto responsive to a faulty needle in said knitting machine and means connected thereto responsive to a broken thread in said knitting machine and means connected thereto responsive to too loose material in said knitting machine and means connected thereto responsive to failure of said alternating current supply and means responsive to failure of said direct current supply, all of said means being operatively arranged to effect the disconnection of said motor from said alternating current power supply and the connection of said motor to said direct current supply, electrically operated means for disconnecting said direct current supply from said motor after a predetermined time, and electrically operated means for maintaining said direct current supply disconnected from said motor until after said motor has been again connected to said alternating current power supply.

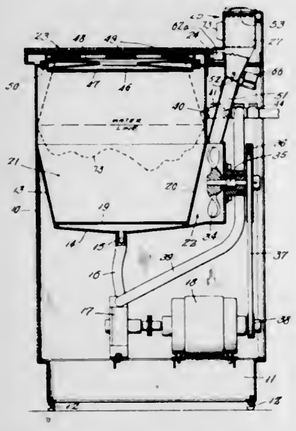
2,666,314
KNITTED GARMENT CONSTRUCTION
Lois S. Capper, Los Angeles, Calif.
Application December 10, 1952, Serial No. 325,050
6 Claims. (Cl. 66—176)



1. In a knitted body garment, a body having a front and back, and having sleeves extending from the body, said sleeves having armpit portions, the upper portions of the front and back ad-

jacent the upper ends of the sleeves, comprising a neck portion and a shoulder yoke, said shoulder yoke having a front section, a rear section and top sections, said sections of the yoke each being of knitted stitching having a fixable major directional stretch, the major directional stretch of the front and rear yoke sections being vertical and the major directional stretch of the top yoke sections being toward the sleeves of the garment.

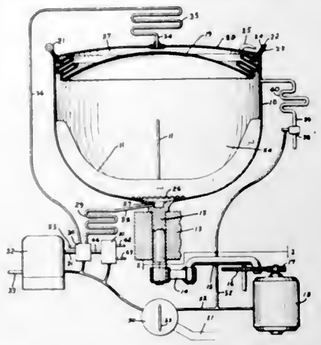
2,666,315
SQUEEZER EXTRACTOR WASHING MACHINE
Carel F. Abresch, Stamford, Conn., assignor to General Motors Corporation
Application March 24, 1948, Serial No. 16,790
5 Claims. (Cl. 68—12)



1. A washing machine comprising a clothes tank having a drain opening at its bottom, and having an air outlet; a movable wall connected with said tank and displaceable inwardly thereof towards clothes in the tank, the exterior of the wall having access to the atmosphere and said wall and tank cooperating to form a sealed chamber which the clothes and a washing solution may occupy, said drain opening communicating with said chamber; means for agitating said washing solution and the clothes in the tank; means including a reversible pump connected with the drain opening for forcing air under pressure into the solution to aerate the same, said air passing out of said air outlet; and means for reversing the pump to evacuate said solution and part of the air from the chamber, thereby causing said movable wall to shift inwardly against the clothes and squeeze the latter to force liquid therefrom.

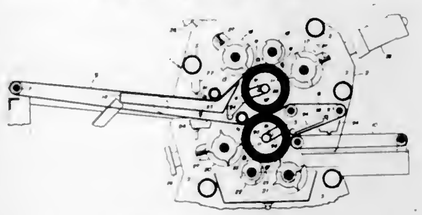
2,666,316
SQUEEZER EXTRACTOR WASHING MACHINE
Robert R. Candor, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application March 25, 1948, Serial No. 17,053
7 Claims. (Cl. 68—21)

1. A washing machine comprising: a tub; oscillating means for said tub; a cover for said tub; a flexible diaphragm carried by said cover and movable into said tub; means to introduce washing liquid into said tub below said diaphragm; vacuum means to impart a vacuum to the space between said cover and diaphragm and subsequently to break said vacuum and to impart



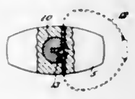
a vacuum to the space in said tub below said diaphragm.

2,666,317
HIDE TREATING APPARATUS
Robert H. Griffin, Crestwood, Yonkers, N. Y., assignor to Tanners' Research Corporation, New York, N. Y., a corporation of Delaware
Application August 5, 1948, Serial No. 42,652
35 Claims. (Cl. 69—41)



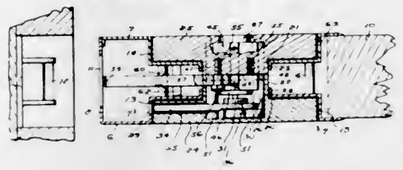
1. Apparatus for treating hides comprising a movable work support, means associated with said support for treating a hide, and means actuated by means positioned in advance of said treating means for causing said treating means to treat said hide in direct correlation with any speed of travel of said hide past said treating means.

2,666,318
COMBINED LOCK AND SEAL DEVICE
Nicholas A. Welch, West Hartford, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut
Application November 3, 1950, Serial No. 193,817
11 Claims. (Cl. 70—50)



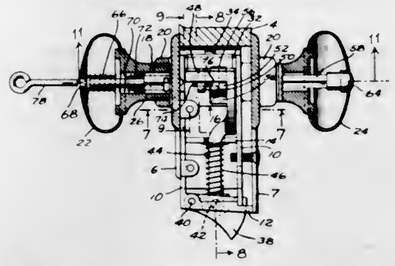
2. A lock adapted for use as a seal device comprising a lock case having an opening therethrough, and a key-operated mechanism in said case including a movable member having a key slot and an opening extending therethrough in communication with said key slot; the said openings being alignable to receive a sealing member for preventing the insertion of a key into said key slot.

2,666,319
REVERSIBLE LATCH AND LOCK FOR SLIDABLE CLOSURE DEVICES
James F. Price, Miami, Fla.
Application May 20, 1950, Serial No. 163,261
6 Claims. (Cl. 70—97)



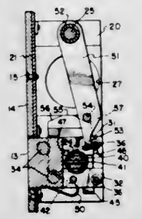
2. In a combined latch and lock for mounting within the leading edge of a sliding closure door, a housing including a pair of spaced apart plates, the plates provided with cylindrical depressions in their outer faces that are axially aligned with each other, each depression provided with a relatively large concentric opening, inner and outer latch handles for rotative mounting within the depressions with their outer faces flush with the plates, hubs formed on the handles for rotative reception in the concentric openings, the hubs extending inwardly of the housing and connected with each other to rotate in unison, an end closure for the housing that is provided with an opening for the passage of a keeper carried by the door opening, a latch dog pivotally supported upon the hub of one latch handle to be vertically shiftable to latched position when engaged by the keeper, a spring for urging the dog to normal latching position, the dog being bodily shiftable to unlatching position when one of the handles is actuated, a bolt carried by one of the handles to slidably engage in an opening of the housing, manual means to project and retract the bolt, key controlled means carried by the other handle and connected to the manual control means of the other handle whereby the bolt may be retracted through the medium of the key from the opposite side of the door, the pivotal support of the dog being such that the dog may be reversed and pivotally mounted to its hub in an opposite direction to permit the handles being reversed from one side of the door to the other.

2,666,320
DOOR LOCK AND LATCH
Ernest L. Teich, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut
Application June 22, 1951, Serial No. 233,508
10 Claims. (Cl. 70—146)



5. In a latch of the class described, the combination of a latch housing, inner and outer knobs each having a spindle mounted to turn in said housing, a latch-bolt, a bolt retractor, a roll-back connected with each knob spindle whereby upon turning either knob the roll-back acts through the retractor to retract the latch bolt, a dead-locking rod extending through apertures in said roll-backs having means for holding the roll-back associated with the outer knob from axial movement with relation thereto, said rod being movable longitudinally with relation to the roll-back associated with the inner knob, the outer roll-back and said latch housing having portions adapted to interlock when engaged, means for moving the locking rod axially in opposite directions to respectively position the outer roll-back in locking engagement with the latch housing to hold the outer knob and its spindle from turning movement, and to release said outer roll-back from the latch housing to permit the outer knob and its spindle to be turned, and means for holding the locking rod in the positions thus moved comprising a rounded projection on the bolt retractor arranged in the path of said outer roll-back and over which the outer roll-back is adapted to snap during said movements of the dead-locking rod in opposite directions.

2,666,321
DOOR LOCK
Frank R. Collar and Earle D. Grizzard, Los Angeles, Calif., assignors to Adams Rite Manufacturing Company, Glendale, Calif., a corporation of California
Application November 13, 1950, Serial No. 195,174
4 Claims. (Cl. 70—418)



1. A lock mechanism, comprising: a bolt mounted for rectilinear movements to protracted and retracted positions; a pair of notches spaced longitudinally of said bolt; a swingably mounted bolt actuating lever arm having a connection at its outer end with said bolt; a bolt locking member supported for rectilinear movements in directions at right angles to the movements of said bolt, said locking member having a projection adapted to seat in one of the notches in bolt protracted position and in the other of said notches in bolt retracted position; means resiliently biasing said locking member in a direction to seat said projection; a pin carried by said arm; a cam surface on said locking member in the path of movement of said pin; and a key controlled lever rotatable in one direction or in opposite direction into engagement with said pin to release said locking member and actuate said bolt from one of its positions to the other.

2,666,322
ROTARY CYLINDER LOCK PROVIDED WITH FLAT TUMBLER ELEMENTS
Edmond Uher, Paris, France
Application October 25, 1949, Serial No. 123,345
Claims priority, application Switzerland
April 7, 1949
4 Claims. (Cl. 70—419)

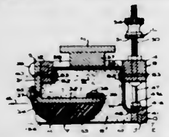
1. A rotary cylinder lock comprising a casing provided with an inner cylindrical wall having

diametrically opposed longitudinal grooves, a hollow cylindrical barrel rotatively mounted in said casing and provided with two diametrically opposed longitudinal slots, said grooves being wider than the width of said slots, a plurality of compartments in said barrel, a plurality of flat tumbler elements of generally rectangular shape slidably mounted in said barrel, two in each compartment, guided along a diameter thereof crossing the longitudinal axis of said slots and adapted to engage through one of said slots one of said grooves, each of said tumbler elements being provided on one of its longitudinal edges with at least one notch, and on their other longitudinal edge with a cut-off portion symmetric with respect to the transversal axis



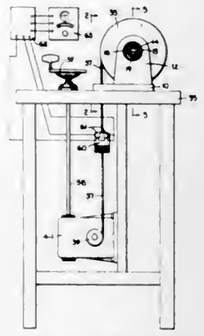
of said tumbler element and having a length at least equal to twice the maximum radial displacement in one direction of the tumbler element, one half of said tumbler elements being mounted with said notches on one side of the longitudinal axis and the other half with said notches on the other side, two sets of resilient tongues located within said barrel on either side of said tumbler elements, each of said tongues being adapted to engage with a corresponding notch of the tumbler elements when said barrel is rotated away from its normal locking position while the tumbler elements are in their operative position, and means to retract said tongues from said notches upon rotation of the barrel to said normal locking position.

2,666,323
MASTIC-APPLYING AND FINISHING TOOL
Robert G. Ames, Burlingame, Calif., assignor of one-half to George W. Williams and one-fourth to Stanley Ames, both of Burlingame, Calif.
Application September 1, 1951, Serial No. 244,786
11 Claims. (Cl. 72—130)



1. In a mastic-applying and finishing tool: a hollow body adapted for receiving mastic under pressure, and being movable over a surface; this body having an outlet opening in the bottom thereof to deliver the mastic to the surface as the body is advanced thereover; the body being provided with end plates; an elongated troweling bar mounted adjacent the trailing edge of the body, and disposed to trowel the mastic delivered to the surface; means anchoring the ends of the troweling bar to the end plates of the body; the bar being flexible for arching upwardly as the mastic crowds thereunder to form a crown on the troweled mastic; and yielding means confined within the length of the body for applying downward pressure at a plurality of separated points along the length of the bar to resist upward arching of the bar, and to reduce the amount of curvature on the crown of the troweled mastic.

2,666,324
STATIC TORSION TESTING MACHINE AND SPECIMEN
Albert M. Stott, Aldan-Clifton Heights, Pa.
Application June 20, 1951, Serial No. 232,650
7 Claims. (Cl. 73—99)
(Granted under Title 35, U. S. Code (1952), sec. 266)

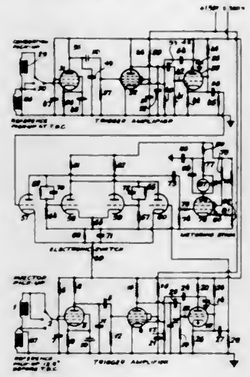


2. In a machine for testing and measuring the ability of materials to withstand gradually increasing torsional loads, a pair of parallel support members spaced from each other, a hollow cylindrical spindle rotatably bridging said support members, a support plate having a cylindrical opening axially aligned with the hollow interior of said spindle, a loading wheel secured to said spindle for rotation therewith, torsional load applying means, a gear reducing unit, connected to said torsional load applying means, a cable windably secured at one of its ends to the wheel's perimeter and secured at its other end to the gear reducing unit, electrically responsive measuring equipment connected to said cable for determining the amount of torque transmitted thereby from said torsional load applying means through said gear reducing unit to said loading wheel, and graduated scale means mounted on said loading wheel for determining the torsional deformation a test specimen may undergo, whereby, upon mounting a substantially longitudinal specimen of the material to be tested with one end fixed in said spindle and the other end fixed in said support plate, the torsional load applied by said torsional load applying means to the loading wheel is transmitted to the specimen and measurement made of the amount of stress required torsionally to deflect the end of specimen fixed in the spindle a prescribed angular distance from its original position.

2,666,325
ELECTRONIC SELECTION OF A COMBUSTION POINT OR SIMILAR POINT ON A WAVE
John Granville Withers and Henry James Hulf, Sunbury-on-Thames, and Alexander Rubach, Feltham, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation
Application June 10, 1950, Serial No. 167,444
3 Claims. (Cl. 73—116)

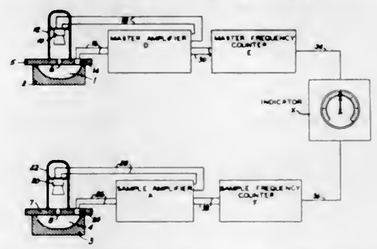
1. A system for determining the phase between electric waves comprising an electronic switch having two stable switching conditions and having two inputs for operating the switch to change the condition thereof, a pair of cascaded differentiating means connected to one input, a pair of cascaded differentiating means connected to the other input, inputs for each of

the differentiating means for supplying the waves thereto, means controlled by the cycling of said switch for indicating phase, whereby points of inflection of a potential curve rather than amplitude may be the determinant and wherein each pair of cascaded differentiating means includes the following: a vacuum tube amplifying stage having the input thereof connected to receive the output of the first of the pair of cascaded differentiating means, an electron discharge device having at least cathode, control



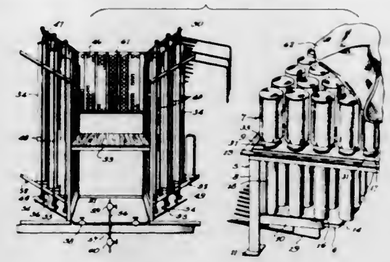
grid and anode with the input thereof connected to receive the output of said amplifying stage, said last named electron discharge device having a cathode follower output circuit, said second differentiating means being connected in said cathode follower output circuit, and coupling means connecting the anode of said electron discharge device and an input of the amplifying stage for suppressing additional pulses from said amplifying stage for a period long in comparison to a pulse duration.

2,666,326
VOLUMETRIC MEASURING APPARATUS
Foster M. Poole and Le Roy C. Paslay, University Park, Tex., assignors, by direct and mesne assignments, of one-half to said Poole, and one-half to Carl Casey, Dallas, Tex.
Application December 22, 1947, Serial No. 793,304
34 Claims. (Cl. 73—149)



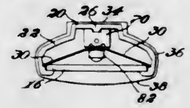
29. In combination, a member having a throat for application to a body having a cavity to convert the body to a single-throated resonator, an electroacoustical transducer in acoustic communication with said cavity and carried by said member, a microphone in acoustic communication with said cavity and carried by said member for converting acoustical oscillation to electrical oscillation, and means coupled to the output of the microphone for measuring the frequency of said electrical oscillation.

2,666,327
TEST MATTRESS
Thomas Smith Taylor, Caldwell, N. J., assignor to Simmons Company, New York, N. Y., a corporation of Delaware
Application September 26, 1951, Serial No. 248,390
7 Claims. (Cl. 73—172)



6. An apparatus of the type described including a frame, a plurality of vertically extending resilient mattress sections arranged in and supported by said frame, each of said mattress sections comprised of a vertically extending cylinder, a piston slidable within said cylinder, the upper end of said piston extending upwardly of said cylinder, a resilient bellows enclosing the upper end of said cylinder and that portion of said piston which extends above said cylinder, said bellows being attached to the outer face of said cylinder adjacent the upper edge thereof, the upper end of said bellows being closed, said closed end having its interior side attached to the upper end of said piston for vertical movement therewith, means for limiting the upward extension of said bellows, each of said resilient mattress sections including an enclosed compressible volume of gas, each of said enclosed volumes of gas being connected through conduit means to a separate expansion tank, means for varying the resiliency of each of said mattress sections and means communicating with each of said mattress sections for measuring the force exerted on each of said mattress sections.

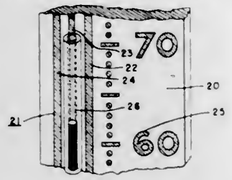
2,666,328
THERMOMETER CASE
Rudolf Beck and Vincent S. Belpedio, Fairfield, Conn., assignors to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey
Application May 19, 1948, Serial No. 27,926
6 Claims. (Cl. 73—374)



1. A thermometer case comprising an elongated hollow body having a back, side walls, an open front and open ends, said body portion being of continuous uninterrupted uniform cross section from end to end, the longitudinal marginal edges of the side walls bordering the open front having rearwardly facing bearing surfaces, a longitudinally bent strip of resilient metal having an apex and diverging legs, on which is marked a graduated scale, said strip being removably frictionally disposed within the case with its legs yieldably engaging said bearing surfaces by compressive engagement of its apex and legs between

the back of the case and said bearing surfaces so that its position is established and maintained by its own resilience, said legs being yieldably displaceable inwardly from said bearing surfaces to receive between them and said bearing surfaces a transparent closure for closing the open front.

2,666,329
THERMOMETER ASSEMBLY WITH LIMITED LUMINOUS BACKGROUND
Malvern J. Hiler, Dayton, Ohio, assignor to Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio
Application May 4, 1950, Serial No. 160,068
2 Claims. (Cl. 73—376)



2. A thermometer assembly having temperature indicating indicia readable in the dark comprising: a flat non-luminous base, a clear glass thermometer stem carried by said base, a transparent liquid filling said thermometer stem, said base having a luminous area thereon directly behind said stem, said area having a width not greater than the cross-section of said stem and being longitudinally co-extensive therewith, a pair of spaced luminous stripe elements on said base on either side of said stem and spaced therefrom by non-luminous stripes of said base, and luminous indicia and markings on a side of one of said stripe elements remote from said stem.

2,666,330
CORING DEVICE FOR BALED GOODS
Richard T. McAndrew, Braintree, Mass., assignor to United States Testing Company, Incorporated, Hoboken, N. J., a corporation of New York
Application February 7, 1951, Serial No. 209,840
5 Claims. (Cl. 73—425.2)



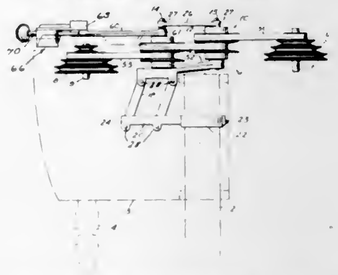
4. In a coring device of the class described, a tube, and a circular cutter at the forward end of the tube, the internal diameter of the tube being slightly larger than the internal diameter of the cutter, a core collecting housing of substantially greater diameter than the aforesaid tube carried by the rear end of said tube, and means carried by said housing to engage the drive shaft of a motor.

2,666,331
ENGINE TURNING GEAR
Robert Philip Hewson, Egham, England, assignor to The Stanley Engineering Company Limited, Egham, England
Application December 11, 1952, Serial No. 325,260
Claims priority, application Great Britain January 9, 1952
6 Claims. (Cl. 74—7)



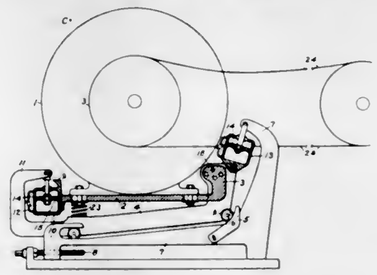
1. Engine turning mechanism for starting internal combustion engines, comprising a belt drive for coupling the engine shaft with a starter device, said belt drive passing round a driving pulley adapted to move longitudinally in response to rotation by said starter device, and a driven pulley associated with said engine shaft, said driven pulley being formed in two parts, one of which is freely mounted, and the other of which is keyed to the engine shaft, whereby the belt drive is adapted to move from one part of said pulley to the other part in response to the longitudinal movement of said driving pulley and thereby effect the turning of the engine shaft.

2,666,332
SPEED CHANGE PULLEY FOR DRILL PRESSES
Robert D. Phares, Phoenix, Ariz.
Application May 8, 1952, Serial No. 286,689
5 Claims. (Cl. 74—230.17)



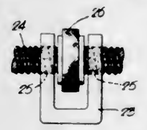
1. In a drill press having a vertical column supporting a head casting, and a vertical drill spindle shaft carrying a V belt pulley on the front side of said column, and a driving V belt pulley mounted on a vertical motor shaft on the back side of said column; the axes of said drill press shaft, motor shaft and said column being in the same vertical plane; the combination therewith of a speed change driving mechanism composed of a column bracket having a forwardly extending portion attached to said column at its rear, a base bracket for speed-change pulleys disposed above said column bracket and supported by parallel, substantially vertical, links pivotally attached at their ends to said brackets to allow fore and aft movement of said base bracket in the plane of the axes of said drill press shaft and column; speed change pulleys having upper and lower effective grooves and an axially shiftable centrally disposed pulley part mounted parallel in fore and aft spaced relation on said base bracket; a V belt extending from said motor shaft pulley to the upper groove of the aft pulley on said base bracket; an intermediate belt extending from the lower groove of said aft pulley to the upper groove of said fore positioned pulley; a V belt pulley extending from the lower groove of said fore pulley to the pulley on said drill spindle; and manually operated lever and link mechanism for moving said speed change pulleys and base bracket fore and aft in the said plane of said drill spindle shaft and motor shaft and for holding said pulleys fixed at any position throughout said movement.

2,666,333
BELT TENSIONING DEVICE
Arthur N. Geyer, Seattle, Wash.
Application September 10, 1947, Serial No. 773,193
6 Claims. (Cl. 74—242.9)



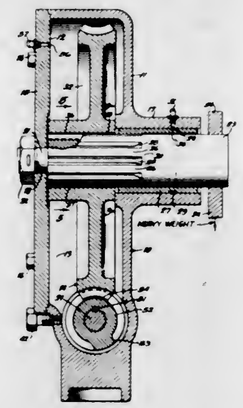
1. In a belt tensioning device, the combination of a sliding base provided with an adjusting screw, a subbase having rollers thereon for rolling contact with said sliding base, a pivot base pivotally mounted at one end on the subbase, a cushion spring and a dashpot between the other end of the pivot base and the subbase, a dashpot between the subbase and said sliding base, a motor adjustably mounted on the pivot base, and a driving pulley on the motor shaft.

2,666,334
THREADED ARTICLE AND SUPPORT THEREFOR
Charles R. Nalle, Philadelphia, Pa.
Application July 17, 1947, Serial No. 761,641
1 Claim. (Cl. 74—424.8)



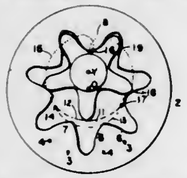
In combination, a shank having a screw thread and a substantial number of closely spaced and continuous longitudinal spline grooves on the surface thereof, said grooves intersecting said thread to form on the surface of said shank multitudinous projecting elements arranged helically and also in longitudinal rows, said elements constituting said thread and defining said longitudinal spline grooves, the spline grooves defined by said longitudinal rows of projecting elements being of lesser depth than the thread grooves defined by said elements whereby said spline grooves intersect said thread and form numerous depressions therein without destroying the effective helical continuity of said thread; a support having an unthreaded aperture through which said shank extends and having continuous longitudinal splines on the wall defining said aperture, said splines being complemental to the spline grooves on said shank whereby engagement between said splines and spline grooves serves to prevent turning of said shank relative to said support; a nut having an unsplined screw threaded bore and cooperatively associated with said support and threadedly engaging the threads on said shank; and means to prevent longitudinal movement of said nut with respect to said support, turning of said nut effecting longitudinal movement of said shank relative to said support.

2,666,335
GEAR ASSEMBLY
Norman F. Clayborne, Chicago, Ill., assignor to Clayborne Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 30, 1951, Serial No. 234,589
5 Claims. (Cl. 74—425)



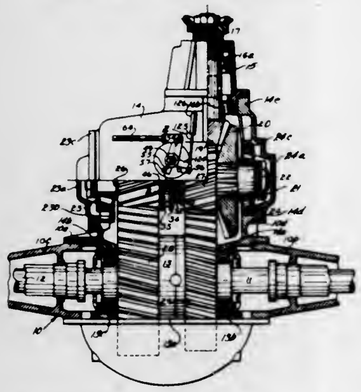
1. In a gear assembly, the combination comprising a gear box equipped with a horizontally disposed elongated bearing, a normally horizontal shaft mounted within said bearing and having a free end projecting outwardly from said bearing and adapted for the suspension of a heavy object therefrom so that the rotation of said shaft will rotate said object, a second shaft rotatably mounted in said gear box and being spaced from said first-mentioned shaft, a worm gear loosely splined to said first-mentioned shaft within said gear box and in alignment with said second shaft so that said first-mentioned shaft can be tilted slightly with respect to said worm gear, and a worm mounted on said second shaft and drivably engaging said worm gear, whereby said worm gear is permitted to remain in correct alignment with said worm even though said first-mentioned shaft is slightly pivoted upwardly at the portion thereof splined to said worm gear by the weight of said object carried on the free end of the shaft.

2,666,336
INTERNAL GEAR TEETH
Myron Francis Hill and Francis A. Hill 2nd, Westport, Conn.
Application June 10, 1950, Serial No. 167,471
15 Claims. (Cl. 74—462)



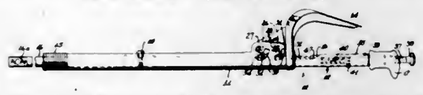
1. In a rotary gear mechanism, toothed members, one outside of, eccentric to, and having more teeth than the other the numbers of said teeth being based on a fractional ratio having a difference of one; means to drive one toothed member with relation to the other; one toothed member having inwardly projecting teeth separated by tooth spaces and the other having outwardly projecting teeth, said teeth on said toothed members intermeshing with each other as they enter and leave each other's tooth spaces, and having contours providing a traveling relation between the teeth and tooth spaces at steady ratio speeds; providing for drive contacts at full mesh; providing for a crescent range between the teeth at open mesh and providing for tooth engagements between full mesh and said crescent range to reinforce the said drive relations; said engagements maintained tight by said driving means; said tooth contours being based on ratio circles or curves proportional to the numbers of teeth; and the contours of teeth on one of said toothed members having centers of curvature located to travel outside of said ratio circles at distances sufficient to maintain said engagements.

2,666,337
MULTISPEED DRIVE MECHANISM
Nelson R. Brownyer, Birmingham, Mich., assignor, by mesne assignments, to Rockwell Spring and Axle Company, Coraopolis, Pa., a corporation of Pennsylvania
Original application July 13, 1944, Serial No. 544,716, now Patent No. 2,398,407, dated April 16, 1946. Divided and this application April 9, 1946, Serial No. 660,831
27 Claims. (Cl. 74—472)



1. In a system for the operation of a shiftable two speed axle gear mechanism, an internal combustion engine having a throttle and an intake manifold, an accelerator pedal connected to said throttle, a selector valve connected with said intake manifold, a fluid motor connected to said selector valve, manual means for actuating said selector valve to selectively energize said fluid motor to make speed ratio changing strokes in opposite directions, said axle gear mechanism comprising a shiftable toothed member drive connected to said fluid motor and a pair of toothed members adapted to be selectively meshed with said shiftable toothed member for driving the axle in either of its two speeds, and means operably interconnecting said fluid motor and said shiftable toothed member so that the latter is demeshed from one of said two members and meshed with the other during the stroke of said motor in either direction, the drive torque exerted by said engine acting in opposition to the demeshing force exerted by said fluid motor to maintain said shiftable member against demesh from that one of said two members with which it happens to be meshed even when said fluid motor is energized for the corresponding stroke, manipulation of said accelerator pedal to reduce the throttle opening serving to interupt said drive torque to permit said so energized fluid motor to disengage said shiftable toothed member from said one toothed member and move said shiftable toothed member toward said other toothed member with relatively high power, and means energized during said high power travel of said shiftable toothed member for continuing movement of said shiftable toothed member in the same direction with materially less power than said fluid motor until said shiftable toothed member becomes meshed with said other toothed member.

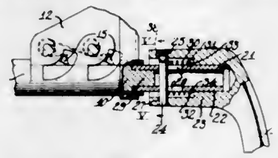
2,666,338
STRAIGHT PULL BRAKE LEVER STRUCTURE
Ray A. Sandberg, Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application December 29, 1950, Serial No. 203,355
10 Claims. (Cl. 74—503)



9. In combination in brake-actuating mechanism, a pull rod having means at one end for attachment to brake mechanism and a handle at the opposite end for pulling the rod for setting the brake, means supporting the rod for reciprocal brake setting and release movements, cooperating pawl and ratchet means on said support and on said rod for holding the rod in incremental brake-setting position, means rotatably mounted relative to the rod and disposed to actuate and thereby separate said pawl means from said ratchet means for releasing from any incremental brake-setting position, and means operatively connected to said rotatably mounted releasing means and manually operable adjacent to the handle end of the rod for actuating said rotatably mounted means.

2,666,339
SAFETY HANDLE STRUCTURE FOR STRAIGHT PULL BRAKE LEVERS
Richard J. Schwarz, Lombard, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application March 9, 1951, Serial No. 214,741
14 Claims. (Cl. 74—503)

1. In a straight pull brake lever structure, a reciprocably and rotatably movable member, means for retaining said member in brake setting position against return to brake releasing position, said means being releasable by turning said member, a handle on said member, and clutch means connecting said handle to said



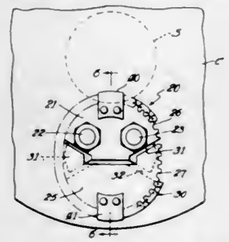
member normally permitting rotation of the handle relative to said member but responsive to limited movement longitudinally relative to said member for effecting an interlock enabling turning of said member by turning of the handle.

2,666,340
HANDGRIP
Kenneth W. Hunt, Dayton, Ohio, assignor to Hunt-Wilde Corp., Dayton, Ohio, a corporation of Ohio
Application March 29, 1950, Serial No. 152,668
1 Claim. (Cl. 74—551.9)



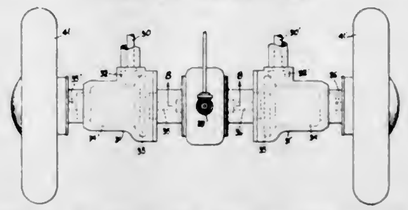
The combination of a handle bar or the like with a hand grip element, said handle bar comprising a metallic member having a smooth outer surface, said hand grip element comprising a tubular plastic member having a smooth inner cylindrical surface throughout the length of the tubular cavity, said hand grip element being telescoped over the end of the bar and arranged to frictionally grip the smooth surface, said plastic element being made from a plastic selected from the class consisting of a polyvinyl chloride and polyvinyl chloride-acetate copolymer, whereby the hand grip when mounted on the handle bar cannot be slipped off the bar by a pull axially and cannot be easily twisted.

2,666,341
BIFILAR CENTRIFUGAL PENDULUM VIBRATION DAMPER
Earl F. Riopelle, Detroit, Mich., assignor to Morse Chain Company, Ithaca, N. Y., a corporation of New York
Application November 9, 1950, Serial No. 194,853
3 Claims. (Cl. 74—574)



1. A bifilar centrifugal pendulum vibration damping device which comprises, a body member adapted to be fixedly secured to a rotating means, a pendular mass, the peripheries of said body member and said pendular mass being provided with sprocket teeth, means integrally formed with said body member and comprising a torque member arranged to cooperate with groove portions of said pendular mass to limit relative axial movement between the body member and the pendular mass but to permit pendular motion of the pendular mass with respect to the body member in a plane parallel to the plane defined by the rotation of the body member, and means comprising articulated chain links disposed in wrapped relationship with respect to the body member and the pendular mass and with the teeth thereof cooperating with the sprocket teeth disposed on the peripheries of said body member and said pendular mass to permit pendular movement of the pendular mass with respect to the body member.

2,666,342
POWER TRANSMISSION MECHANISM
William B. Bell, Atlanta, Ga., assignor of one-third to Edward Taylor Newton and George M. Hopkins
Application December 12, 1947, Serial No. 791,347
4 Claims. (Cl. 74—710)

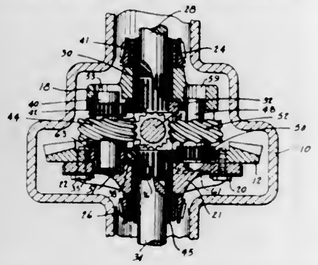


1. Power transmission mechanism comprising a plurality of driven shafts, fluid control means connected to said shafts for regulating the speed thereof, a plurality of sets of differential gears, a plurality of other shafts each connected respectively to a set of said differential gears for power take-off, and means for driving said differential gears, said fluid control means including a housing provided with a plurality of chambers, a plurality of independently rotatable sets of vanes, a set of said vanes being eccentrically mounted for rotation within each chamber, each of said driven shafts being connected respectively to a set of said vanes, an outer housing connected to said first named housing and forming therewith a passage for the flow of fluid therethrough, said passage communicating with each of said chambers by means of substantially triangular slots in the wall of said first named housing, fluid within said housings and said passage to be circulated by said vanes, and means for controlling the flow of fluid through said passage.

2,666,343
DIFFERENTIAL MECHANISM
Mario Casa-Massa, New York, N. Y.
Application September 20, 1948, Serial No. 50,162
7 Claims. (Cl. 74—715)

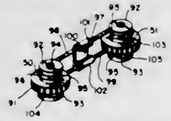
2. In a differential, a housing mounted for rotation, power input means for rotating the housing, a pair of driven shafts mounted for rotation in the housing and extending outwardly therefrom on opposite sides of the housing whereby one end of each shaft is located outside of the housing and the other end of each shaft is located within the housing and spaced from each other, the longitudinal axes of the driven shafts

being in alignment, a driven gear on each driven shaft and positioned within the housing, a pair of countershafts mounted for rotation in the housing, the longitudinal axes of said countershafts being parallel to the longitudinal axes of the driven shafts, a driving gear on each countershaft meshing with a driven gear on a driven shaft, a helical differentiating gear on each countershaft and located in the housing, a cross shaft mounted for rotation in the housing and positioned between the countershafts and the ends of the driven shafts in the housing, the longitudinal axis of the cross shaft lying in a



plane that is perpendicular to the plane in which the longitudinal axes of the countershafts and the driven shafts lie, and a control gear on the cross shaft between the differentiating gears and in operative mesh with each of the differentiating gears, the helical angle of the differentiating gear being forty five degrees plus one-half of the kinetic friction angle for the surfaces of the control and differentiating gears that are in mesh as determined for the conditions of design, and the helical angle of the control gear being ninety degrees minus the said angle of the differentiating gear.

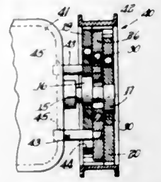
2,666,344
GEAR SYSTEM
Gunther A. Boeck, Mountain Lakes, N. J., and Edson J. Howard, Flushing, N. Y., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Army
Original application August 14, 1950, Serial No. 179,334. Divided and this application December 7, 1951, Serial No. 260,492
2 Claims. (Cl. 74—801)



1. A planetary gear system comprising, in combination, a sun gear, a ring gear concentric with said sun gear, a pair of planet gears in gear connection with said sun gear and said ring gear and a flexible supporting means for said planet gears comprising a pair of parallel spaced spring wires, said wires having hooked shaped end portions which respectively embrace said planet gears operating to hold said planet gears in spaced relation.

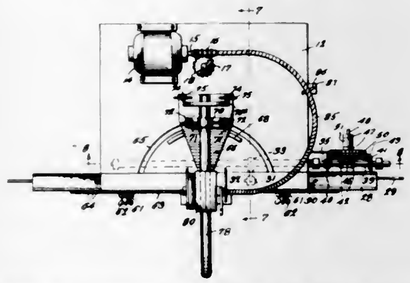
2,666,345
SPEED REDUCER
Walter E. Amberg, Chicago, Ill.
Application October 29, 1951, Serial No. 253,690
37 Claims. (Cl. 74—804)

1. A speed reducer comprising, an internal ring member, a pair of connected opposed eccentrics rotatable about an axis concentric with the central axis of the internal ring member, a pair of spaced wheels of smaller diameter than the internal ring member carried by the eccentrics in opposing peripheral driving contact with the internal ring member, rotation of said eccentrics causing orbital movement of said pair of wheels about the central axis of the internal ring member and relative rotation between the pair of wheels and the internal ring member, an inter-



mediate member disposed between the pair of spaced wheels, and whippletree driving connections between the pair of spaced wheels and the intermediate member for concentrically positioning the intermediate member with respect to the central axis of the internal ring member and for establishing a driving relation between the pair of spaced wheels and the intermediate member to produce relative rotation between the intermediate member and the internal ring member.

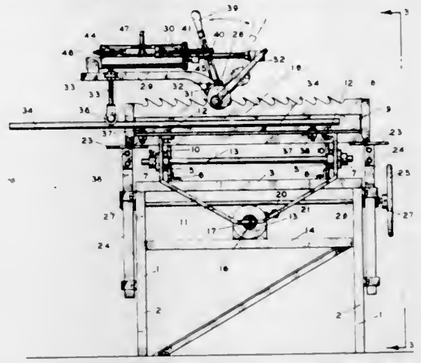
2,666,346
SAW SHARPENING MACHINE
Lute Brown, Fairmont, W. Va.
Application July 2, 1948, Serial No. 36,657
1 Claim. (Cl. 76—40)



A saw sharpener comprising a table, a casing mounted on said table, a platform hinged at its rear end to the rear of said casing, a transversely slidable saw carriage mounted upon the forward end of the table adjacent the forward end of said platform, clamps carried by said carriage for holding a saw with its teeth uppermost and in horizontal alignment, a plate positioned upon said platform, said platform having an arcuate slot therein, said slot being centered upon said saw, a pair of thumb screws extending through said plate and said slot, a horizontal axle clamped atop said plate and extending at right angles toward said saw, a semi-circular control arm having one end affixed to said axle, a vertically extending protractor affixed to said plate in parallelism with said saw, a pointer affixed to said axle and adapted to register with said vertical protractor, a support plate adjustably and slidably clamped upon said control arm and extending in substantially the same plane as the radii of said control arm, a grinding wheel mounted upon the lower portion of said support plate and extending generally in a plane parallel to the plane of the support plate, said wheel having that

portion of its outer edge most remote from said support plate lying in the path of movement of said saw teeth, means for moving said grinding wheel into and out of engagement with the teeth of said saw, and means for moving said carriage when said grinding wheel is out of engagement with said saw, said means for moving said grinding wheel into and out of engagement with said saw including a vertical shaft driven by said motor and extending through said platform, a horizontal shaft operatively connected at one end to said vertical shaft and revolubly mounted on the underside of said platform, a crank mounted upon the other end of said horizontal shaft, a pin extending laterally from the free end of said crank, a standard affixed to the table, a pin extending laterally from the upper end of said standard, and a link interconnecting said pins.

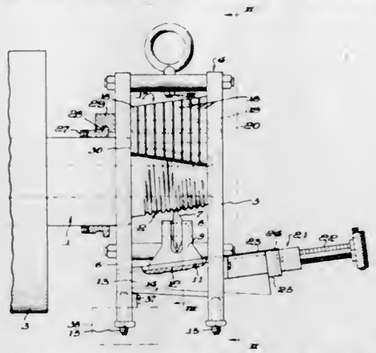
2,666,347
GANG SAW SWAGING MACHINE
Ralph S. Richardson, Sweet Home, Oreg.
Application February 19, 1952, Serial No. 272,307
4 Claims. (Cl. 76—52)



1. A swaging machine, comprising a saw clamp, means for operating the saw clamp, a track, a carriage mounted on the track, a swaging device mounted on the carriage above the clamp including a control lever and a swaging lever, fluid operated means including a valve, a cylinder pivoted at one end to the carriage, a piston in the cylinder, and a piston rod pivotally connected to the swaging lever, a pivotally mounted valve operating lever connected to the valve, one end of said valve operating lever being in the path of movement of the control lever, whereby when the control lever is operated it will operate the valve operating lever to admit pressure to advance the piston and actuate the swaging lever to swage a tooth held by the clamp, and means for reversing the valve to return the piston and swaging lever to normal position when the control lever is returned to normal position.

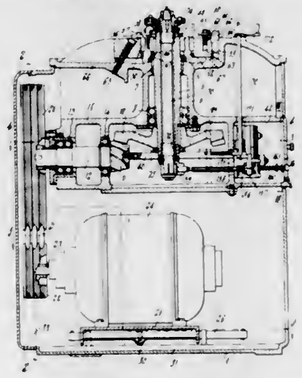
2,666,348
APPARATUS FOR COLD ROLLING THREADS
Lawrence E. Trishman, Beaver, Pa., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 16, 1950, Serial No. 201,163
5 Claims. (Cl. 80—6)

1. Apparatus for cold rolling tapered male threads that have been formed on the ends of steel work-pieces, comprising a frame for engaging and firmly holding such a work-piece with its threaded end exposed, a second frame adapted to receive the exposed threaded end of the work-piece, means for effecting relative rotation between said frames, the second-named frame being provided with a rigid work-roll support lying in a plane parallel to the taper of the thread, a work roll rotatably borne by and freely slidable upon said support, and a back-up cone rigidly carried by said second frame for engaging the



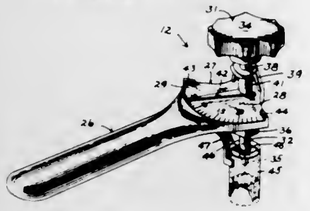
side of the work-piece opposite to said work roll, said cone comprising a plurality of freely rotatable idle rolls each having its thread-engaging surface tapered to conform to the taper of the thread on the work-piece, the rotation of one of said frames causing the work roll to follow the thread to cold work it whereby to increase its fatigue resistance.

2,666,349
SCREW THREAD ROLLING MACHINE
James W. Batchelder, Weathersfield, Vt., assignor, by mesne assignments, to The Economy Engineering Company, Willoughby, Ohio, a corporation of Ohio
Application December 17, 1947, Serial No. 792,296
14 Claims. (Cl. 80—7)



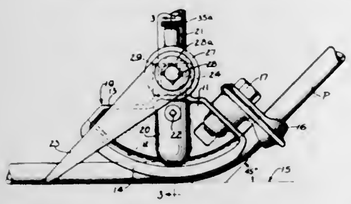
6. In combination, a pair of oppositely facing thread rolling dies, means for rotating one of said dies relative to the other to perform thread rolling operations, and oscillating means including work blank pushers oscillatable in timed relation to the rotation of said rotary die about the axis of the rotary die for projecting said work pieces between said dies at the time of initial contact of the work with the dies at a velocity substantially that of the axis of the work piece as it is moved between said dies during the rolling operation, the operation of said work blank pushers being timed relative to the rotation of the rotary die to cause said work pieces to be gripped when the dies are in phased relation.

2,666,350
SCREW-ADJUSTING TOOL
Walter W. Hackett, Oakland, Calif.
Application June 8, 1949, Serial No. 97,767
4 Claims. (Cl. 81—3)



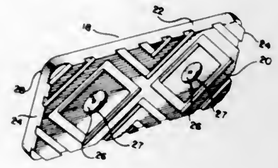
1. In a tool for turning a screw to a measured degree from a predetermined initial set position, an elongated handle member providing a transverse bore for rotatively receiving the shank of a screwdriver and having thereon an arcuate scale concentric with said bore, a screwdriver having its shank journalled in said bore and terminating in a screw-engaging means, a radial pointer carried by said shank in frictional engagement therewith for swinging adjustment thereabout and arranged for turn-measuring rotation therewith opposite said scale, and a stop fixed on the handle member operative at a scale end for engagement by the pointer to limit the pointer rotation with the shank to a zero setting of the pointer during an initial setting of a screw engaged by the screwdriver whereby a reverse rotation of the shank to reset the screw will be directly measured from the zero setting by the swinging movement of the frictionally held pointer over the scale.

2,666,351
GAUGE STOP FOR PIPE BENDERS
Jacob W. Lewin, Oak Park, Ill.; Lillie E. Lewin, administratrix of Jacob W. Lewin
Application July 26, 1950, Serial No. 176,018
3 Claims. (Cl. 81—15)



1. A gauge stop attachment for a pipe bender including a body member having an open arcuate groove for receiving a section of pipe to be bent and including a handle secured to the body member and extending therefrom generally radial of said groove for rocking the body member lengthwise of the groove in relation to a working surface on which the pipe to be bent may rest during the bending operation, said gauge stop attachment comprising, in combination, a collar having a passage therethrough for the reception of said handle with a set screw therein for retaining the same on the handle, a finger having a generally circular centrally apertured head with an annular flange thereon, a pivot pin received in said head and collar for adjustably supporting said finger, a positioning disk received within said head flange and interposed between said head and collar, said disk being held in non-rotative relation to said collar, a spring-biased detent carried by said flange and engageable with said disk to selectively position said finger with respect thereto, said finger being adapted to project beyond the body member of the pipe bender when the attachment is affixed thereto for engagement with the working surface to limit rocking movement of the body member whereby to predetermine the degree of bend imparted to said pipe.

2,666,352
RESILIENT VISE-JAW FACEPLATE HAVING MAGNETIC INSERT OF LESSER THICKNESS
Richard T. Philips, Seattle, Wash.
Application March 26, 1951, Serial No. 217,588
4 Claims. (Cl. 81—38)



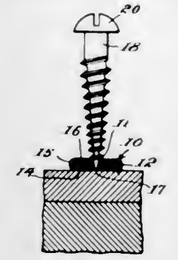
1. An elastic facing for vise jaws, comprising: a pad of resilient rubber-like material shaped to cover the work-gripping face of a vise jaw and having a through opening extending from face to face thereof, and having a magnet positioned in said through opening, said magnet being of a thickness less than the thickness of said pad and being disposed in said pad so that one face of the magnet is flush with the face of the pad to be disposed against the work-gripping face of a vise jaw and the other face of the magnet underlying the plane of the work-gripping face of the pad, the compressibility of said resilient pad material being such that under compression in a normal work-gripping operation its thickness will be greater than the thickness of said magnet whereby only the pad material is pressed to the work being gripped.

2,666,353
DEVICE FOR TURNING THE PAGES OF MUSIC
Richard Graves, Cape Coast, Gold Coast, British West Africa
Application March 20, 1951, Serial No. 216,564
1 Claim. (Cl. 84—520)



A device for automatically turning pages of music whilst permitting the retention of the player's hand upon the instrument being played, including a plurality of arms, each arm being formed as an elongated clip and embracing a single page, each arm being of a length sufficiently great to project beyond one edge of said page, a bridge erected on said projecting portion of each arm, a lever arm pivoted near one end and having the other end for engaging said bridge, means at said engaging end including an ancillary relatively short arm, means pivoting said ancillary arm upon said lever arm at a point relatively close to the engaging end thereof, means allowing said ancillary arm to swing upwardly through an angle sufficient to pass the upper portion of said bridge when said lever arm is moving down relatively to said bridge, whereby said ancillary arm enters into said bridge, means blocking the downward swinging of said ancillary arm when said lever arm is moved upwardly, whereby said upward movement of said lever arm will compel said bridge to move upwardly until the angular motion of said lever arm about the pivoted end thereof shortens the effective distance to which said ancillary arm enters said bridge until it assumes a negative value, whereby said ancillary arm becomes disengaged at a predetermined angular position from said bridge and allows said bridge to continue upward movement by virtue of the inertia acquired whilst said lever was moving the bridge upwardly and was mechanically coupled thereto via the intermediary of said ancillary arm, said coupling thereby constituting a one-way valve action, and power supply means for raising said lever arm and for allowing the descent thereof, said power supply means including a substantially vertical push rod pivoted at the upper end to said lever arm at a point intermediate the extremities thereof and nearer the pivotal point thereof, and foot pedal means engaging the lower end of said push rod.

2,666,354
SEALING ASSEMBLY
Jacob Dim and Harry Berg, St. Paul, Minn.
Application June 1, 1950, Serial No. 165,438
1 Claim. (Cl. 85—1)



In a sealing assembly, the combination which comprises a fastening element having a shank with a tapered end, and a flat hollow body of frangible material having liquid glue therein and having a central opening of less area than the cross section of said shank through which the end of said shank extends whereby upon passage of the shank through the body the liquid therein flows around the fastening element providing a seal between the fastening element and material in which the fastening element is positioned.

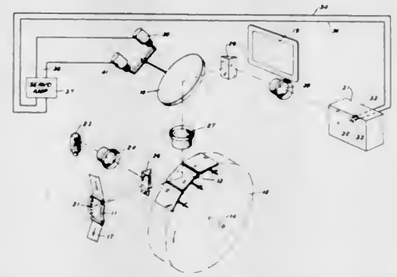
2,666,355
METHOD OF STUDYING CHEMICAL REACTIONS BY MEASURING INTERFACIAL FILM THICKNESSES
Hans J. Trurnit, Edgewood, Md.
Application October 12, 1951, Serial No. 251,122
5 Claims. (Cl. 88—14)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A method of continuously measuring the thickness of a transparent film which is subjected to a reactant in a reaction media which comprises building a step series of known molecular size increments of the film upon a reflecting surface, placing said surface in a transparent reaction media, separately exposing different steps to a beam of plane-polarized monochromatic light thereby producing reflected beams of light of different intensity, exposing a light intensity



recorder to the reflected light beams thereby calibrating the said recorder, exposing one of the step layers of the film to the polarized light, adding the co-reactant to the reaction media and recording the intensity of the reflected light.

2,666,356
SERVO SYSTEM FOR NONINTERMITTENT FILM PROJECTORS
Robert E. Graham, Morristown, and Charles F. Mattke, Fanwood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 13, 1950, Serial No. 167,872
5 Claims. (Cl. 88—16.8)

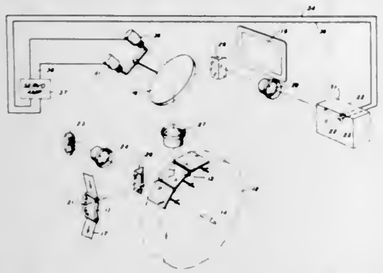


1. In a motion picture film device in which the film used has sprocket holes, a servo correcting system comprising a light source, means for projecting light from said source onto said film, means for projecting with said light an image of said sprocket holes, and means including a plane, correcting mirror for employing said image to produce an error signal.

2,666,357
OPTICAL SYSTEM FOR NONINTERMITTENT FILM PROJECTORS
Robert E. Graham, Morristown, and Charles F. Mattke, Fanwood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application June 13, 1950, Serial No. 167,872. Divided and this application December 27, 1950, Serial No. 202,884
7 Claims. (Cl. 88—16.8)

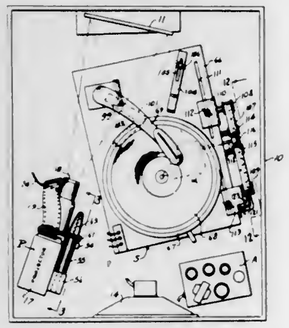
1. In a film device, a light source, a screen, a film gate through which film is continuously fed, a rotating mirror drum containing a crown of mirrors, the axis of which is perpendicular to the direction of transmission of the film image so that the film image is reflected by said crown of mirrors, said crown of mirrors comprising a plurality of mirrors mounted on said drum for oscillation about individual axes lying in the reflecting plane of each of said mirrors parallel to the axis of said drum, a further mirror by

which said reflected film image is further reflected to the screen, said further mirror having a



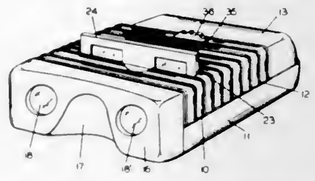
variable position, and means for continuously varying the position of said further mirror.

2,666,358
COMBINED SOUND REPRODUCER AND PROJECTOR APPARATUS
George H. Eash, Toledo, Ohio, assignor to George H. Poulsen, Toledo, Ohio
Application July 13, 1950, Serial No. 173,647
2 Claims. (Cl. 88—28)



1. In a combined picture projector and sound reproducer control means, a picture projector including an electric lamp and electric circuit therefor, a solenoid frame by frame film advance mechanism and an electrical circuit for said solenoid; an automatic replay phonograph including a rotatable record, an electric motor and circuit therefor for driving said record, and a tone arm; solenoid lift means for raising said tone arm to an inoperative position, a latch for retaining said tone arm in inoperative position, and solenoid release means for releasing said latch so as to lower said tone arm; a combined projector and phonograph control mechanism including a continuous control strip having a row of film advance control elements therealong, and at least one master stop control element thereon in a row adjacent the first mentioned row; a positive strip drive mechanism driven by said phonograph motor and rotating with said record, a film advance sensing element engageable with said film advance control elements and electrically connected with the solenoid film advance mechanism; a master stop sensing element engageable with said master stop control element and electrically connected to said solenoid lift means for said tone arm, and an electrical input circuit leading to said control mechanism and closing through said control elements with said sensing elements from time to time as said strip is driven; automatic switch means including an arm movable between first and second contacts respectively in accordance with the raising and lowering of said tone arm, an electrical connection between said switch arm and the circuit for the electric motor, the projector lamp, and the input circuit for the combined control mechanism; a source of electrical energy; an electrical connection between the first switch contact and the source of energy, an electrical connection between the second switch contact and the solenoid release means for the tone arm retaining latch; and a starting switch connected between said first contact and said switch arm, whereby when starting switch remains closed, the operation of said projector and phonograph is continuous but whereby, when said starting switch is open, said phonograph and projector are de-energized by said automatic switch means upon closing of the input circuit of the combined control mechanism with said master stop sensing element.

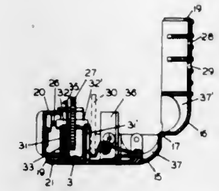
2,666,359
STEREOSCOPIC VIEWER
Harry J. Collins, Milwaukee, Wis., assignor to David White Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 20, 1951, Serial No. 242,651
5 Claims. (Cl. 88—29)



1. A stereoscopic viewer comprising an enclosure having lenses mounted in one of its walls, a slot extending through the top of said enclosure in parallel relation to said lenses, an adapter slidably mounted within said enclosure, said adaptor equipped with a front wall having apertures therethrough, and a rear wall acting as a reflector, a slot disposed through the top of said adaptor, the slot in said adaptor underlying the slot in the enclosure top for receiving a slide inserted through the top of the enclosure, means for slidably moving said adaptor within said enclosure toward and away from said lenses to adjust the focus, said slot in the enclosure top being wide enough to allow a slide to be inserted in the adaptor slot in any focal position of the adaptor, illuminating means disposed within said adaptor between the front and rear walls thereof, a source of electric energy and means for controlling the electric current for said illuminating means.

2,666,360
STEREOSCOPIC VIEWER
Harry J. Collins, Milwaukee, Wis., assignor to David White Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 20, 1951, Serial No. 242,652
3 Claims. (Cl. 88—29)

2. A stereoscopic viewer of the character described equipped with illuminating means, said viewer consisting of an enclosure open at one end, said enclosure comprising an upper and lower half, a lens carriage for supporting a pair of lenses, means for slidably moving said lens carriage within said enclosure in and out of the open end thereof, a vertical reflector laterally disposed within said enclosure, an elongated slot in the upper half of said enclosure, said slot located forwardly of said reflector, a pair of vertically spaced resilient contacts insulated from each other, one of said contact means provided with an aperture for receiving a lamp bulb, a portion of the upper contact member extending forward from said lamp bulb, said portion extending below



said elongated slot whereby the upper contact member is moved downward until the bottom of said lamp bulb makes contact with the other contact member when a stereoscopic slide is inserted into said slot.

2,666,361
VARIABLE LIGHT-MODIFYING DEVICE FOR PHASE CONTRAST
Philip Boone, Winchester, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application July 27, 1949, Serial No. 107,014
6 Claims. (Cl. 88—39)



1. An optical system for producing uninterrupted progressively variable contrast effects in an image of an object of relatively low contrast and of the type producing deviated and undeviated light rays, said system comprising means providing a light source of predetermined dimensions and contour adjacent an entrance pupil of said system, condenser and objective means optically aligned with said light source and coacting to provide an image of said light source at an image plane adjacent the exit pupil of said condenser and objective, and light-modifying means positioned adjacent said image plane and having a plurality of interfitting elements providing transparent zonal areas for selectively intercepting said deviated and undeviated light rays emanating from the object when positioned at a predetermined object plane in front of said objective, one area of said zonal areas being substantially geometrically similar in shape to the contour of said light source and of such a size and so located as to substantially coincide with the image of said light source produced at said image plane, one of said elements being a transparent member having front and back substantially parallel surface portions and being angularly adjustable relative to another of said elements and with respect to the optical axis of said system for gradually modifying, in an uninterrupted manner, at least one of the phase and amplitude characteristics of the light rays transmitted thereby, opaque means positioned adjacent the interface areas formed between said relatively movable elements and supported by at least one of said elements so as to intercept the light rays directed toward said interface areas, and means for angularly adjusting said adjustable element to thereby alter the phase and amplitude relationship existing between said deviated and undeviated light rays at the image plane of said objective.

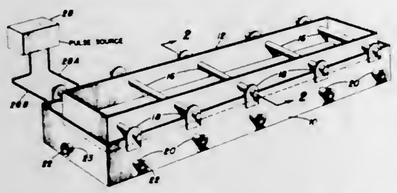
2,666,362
VARIABLE LIGHT-MODIFYING DEVICE FOR PHASE CONTRAST
Edgar D. Tillyer, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application July 29, 1949, Serial No. 107,527
8 Claims. (Cl. 88—39)



1. An optical system for producing uninterrupted progressively variable phase contrast effects in an image of an object of relatively low contrast and of the type producing deviated and undeviated light rays, said optical system comprising means providing a light source of predetermined dimensions and contour adjacent an entrance pupil of said system, a condenser and an objective disposed at spaced locations along an optical axis of said system and optically aligned with said light source, said condenser and objective coacting to provide an image of said light source at an image plane adjacent the exit pupil of said condenser and objective combined, and light-modifying means positioned adjacent said image plane and disposed transversely relative to said optical axis and optically aligned with the condenser and objective so as to intercept substantially all of the deviated and undeviated light rays emanating from an object positioned at a predetermined object plane of said objective when said object is illuminated by said condenser and said light rays are transmitted by said objective, said light-modifying means comprising a plurality of transparent optical elements one of which is normally stationary and two of which are movable relative thereto, said movable optical elements each having a predetermined initial position located approximately transversely relative to said optical axis, said stationary optical element comprising a conjugate zonal portion being formed of transparent material which will appreciably modify one of the phase and amplitude characteristics of the light rays transmitted thereby, and having front and back substantially parallel transversely disposed optically aligned surfaces spaced a predetermined distance apart so as to provide in said conjugate zonal portion an optical path of predetermined value to light rays passing therethrough, said conjugate zonal portion being substantially geometrically similar in shape to the shape of said light source image adjacent said exit pupil and of such size and so located as to intercept substantially all of the undeviated light rays forming said image, each of said movable elements comprising a transversely disposed complementary zonal portion of such size and shape and so located when said movable elements are in said initial positions adjacent said image plane as to intercept the greater portion of said deviated light rays, said complementary zonal portions each having optically aligned front and back substantially parallel surfaces spaced predetermined distances from each other, each of said complementary zonal portions being formed of transparent material which will appreciably modify one of the phase and amplitude characteristics of the light rays transmitted thereby, so as to provide in each complementary zonal portion optical path values to the light rays passing

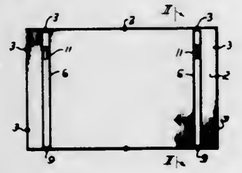
therethrough when said movable elements are in their initial positions which are substantially equal to each other, and which are jointly substantially equal to the optical path value provided by said conjugate zonal portion, said movable optical elements being angularly adjustable relative to each other and relative to said optical axis, and means connected to said movable optical elements for simultaneously adjusting said movable optical elements predetermined amounts in opposite directions relative to said optical axis, thereby altering the effective optical path provided by said complementary zonal portions to light rays passing therethrough and toward a conjugate image plane of said objective, whereby alterations in contrast effects in an image of the said object formed by said deviated light rays at said conjugate image plane may be produced.

2,666,363
TRANSMISSION LINE KERR CELL
Jesse W. Beams and Harold S. Morton, Jr., Charlottesville, Va., assignors to the United States of America as represented by the Secretary of the Navy
Application March 31, 1952, Serial No. 279,508
11 Claims. (Cl. 88—61)



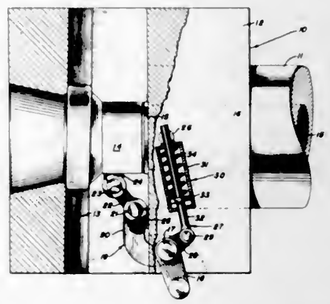
1. An electro-optical cell for modulating polarized light by electrical impulses as it passes through a liquid medium, comprising, an outer container for said liquid, said container being formed of conductive material and having light apertures formed therein so that an optical path can extend through said container and said liquid, a conductor positioned within said container and insulated therefrom, said conductor being positioned to contact said liquid, and pulsing means electrically connected to said container and said conductor.

2,666,364
MIRROR MOUNTING MEANS
Ogilvie C. Kelly, Toledo, Ohio, assignor to The Toledo Plate & Window Glass Company, Toledo, Ohio, a corporation of Ohio
Application March 15, 1950, Serial No. 149,756
3 Claims. (Cl. 88—97)



1. Mirror mounting means adapted to be utilized for mounting heavy mirrors of various widths and heights comprising, in combination, flexible fiber board cut to approximately the dimensions of a mirror to be mounted, metal strips adapted to be employed in pairs, each strip being secured independently to a sheet of said flexible fiber board in position to extend upwardly from the lower edge thereof at any selected distance from the other strip, a hook secured to the lower end of each of said strips and adapted to extend around the lower edge of the sheet of fiber board to which the strip is secured and to encompass the lower edge of a mirror, a plurality of clips each of which is independently secured to the sheet of flexible fiber board adjacent its upper and lateral edges at any selected distance from the others of said clips, whereby identical strips and clips are usable to mount mirrors of widths and heights varying from each other to any desired extent, the flexibility of said fiberboard being such that said hooks and clips bend said fiberboard to bring its edges into conformity with the edges of the mirrors without setting up strains that increase the liability of the mirror to breakage, and hangers secured to said strips above the mid points thereof to which supporting elements may be attached.

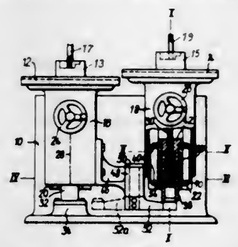
2,666,365
BREECH OPERATING MECHANISM
Charles William Cochran, Jr., Aldan, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application December 5, 1951, Serial No. 259,998
4 Claims. (Cl. 89—24)



1. In a gun provided with a breechblock reciprocably slidable between closed and open positions, a breechblock operating crankshaft journaled in the breech end of the gun, a toggle joint connecting said crankshaft and breechblock for translating oscillatory crankshaft motion into reciprocatory breechblock motion between positions wherein said breechblock is opened and closed respectively, and toggle spring linkage connecting said crankshaft and the breech end of the gun and biased for collapsing movement from a straightened position toward either one of two buckled positions, said breechblock being respectively open and closed when said toggle spring linkage is in one or the other of said buckled positions.

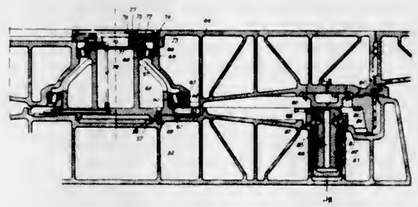
2,666,366
TABLE ADJUSTING MECHANISM FOR MACHINE TOOLS
Kurt Zwick, Munich, Germany, assignor to Hans Deckel and Friedrich Wilhelm Deckel, both of Munich, Germany
Application October 31, 1950, Serial No. 193,132
Claims priority, application Germany October 31, 1949
12 Claims. (Cl. 90—13.1)

1. A machine tool including a first work table mounted for adjusting movement, a second work table also mounted for adjusting movement, first adjusting means for varying the position of said first work table, second adjusting means for varying the position of said second work table, and interconnecting means operatively connected to said first work table and movable bodily therewith and also movable relative to said first work table from an ineffective position uncoupled from



said second table to an effective operating position engaging with a portion of said second adjusting means for causing said second table to move through its adjusting movements concomitantly with the adjusting movements of said first table.

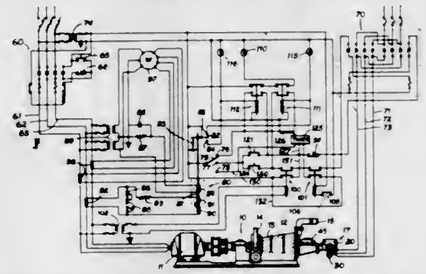
2,666,367
MOUNTING OF ROTATING HORIZONTAL TABLES IN MACHINE TOOLS
Charles William Berthiez, La Cote Bixy Vernon, France
Application June 2, 1950, Serial No. 165,835
Claims priority, application France July 29, 1949
9 Claims. (Cl. 90—58)



1. In a machine tool or the like the combination with a frame of the machine, and a turntable supported on said frame for rotation on an axis and held against longitudinal movement along said axis, said turntable having a surface extending about and generally transversely of said axis, of a shoe disposed in sliding bearing relation to said surface of said turntable as said turntable turns and supported for movement of said shoe toward and away from said surface transversely thereof, and means providing a yieldable thrust of substantially constant strength and operatively connected to said shoe to urge said shoe into bearing engagement with said surface with a substantially constant force while providing for movement of said shoe away from and toward said surface to compensate respectively for increase and decrease in the thickness of the oil film between said shoe and said surface upon rotation of said turntable.

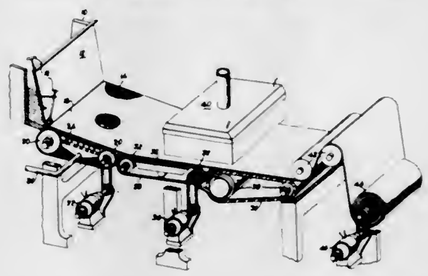
2,666,368
PAPER MACHINERY
Stephen A. Staege, Hamilton, and John H. Pearson, Middletown, Ohio, assignors to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application October 14, 1950, Serial No. 190,184
19 Claims. (Cl. 92—27)

19. In a paper making system including a paper making machine for forming a web, a suction couch roll for removing water from the web, a headbox delivering stock to the forming wire, a refiner having a drive motor for rotating a tapered plug in a shell, and a conduit supplying the refined stock from the refiner to the headbox, the combination of a housing, means for mounting said housing on said refiner, a screw journaled in said housing and including a threaded portion extending outwardly therefrom, means operatively connecting said threaded screw portion with said plug to cause axial movement of said plug in response to rotation of said screw, a drive shaft for rotating said screw journaled in said housing, a motor drive for said shaft carried by said housing, an adjustable electrical control for preselecting desired load conditions on



said drive motor to determine the refining action thereof in accordance with the desired characteristics of said web, electrical means responsive to the load on said drive motor for actuating said motor drive to maintain said preselected load condition, a vacuum gage including a member movable in response to the vacuum conditions at said couch roll, a drive for adjusting said adjustable control, and electrical means actuated by movement of said movable member for energizing said adjustable control drive to cause said adjustable control to change said preselected load conditions in accordance with variations in the suction conditions at said couch roll and thereby to actuate said motor drive through said load responsive means for effecting axial movement of said plug.

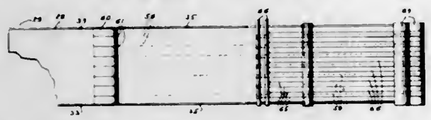
2,666,369
METHOD OF MAKING SOFT PAPERS ADAPTABLE TO IMPREGNATION
Nicholas J. Niks, Munising, Mich.
Application May 29, 1952, Serial No. 290,648
2 Claims. (Cl. 92—38)



2. In a process of continuously manufacturing paper comprising treating an aqueous paper stock to remove water on an open-mesh screen and form a substantially dry paper sheet which consists of the improvement steps of subjecting said paper web to a relatively high vacuum treatment of between 1 and 15 inches of mercury during

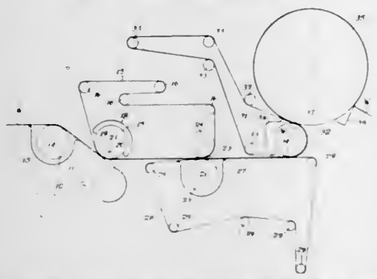
the initial stage of water removal only and while the paper stock is conveyed along in the form of a web, and terminating said vacuum treatment after removal of substantially all of the excess free water of the paper stock web and before packing and matting of the fibers takes place, removing the remainder of the water from said paper stock web by gravitation, and applying heat to dry the resultant paper web and produce a finished paper product which is soft, fluffy and wherein the fibers remain loose and open.

2,666,370
FOURDRINIER TYPE MACHINE FOR APPLYING PULP INSULATION TO WIRES
Benson F. Bachus, Westchester, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 20, 1948, Serial No. 45,398
8 Claims. (Cl. 92—44)



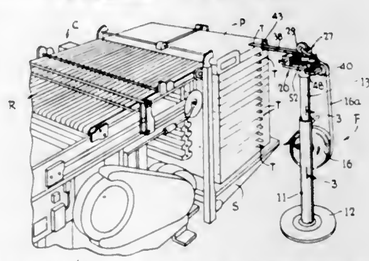
1. In an apparatus for applying pulp insulation to wires, an endless Fourdrinier screen mounted for advancing movement in one direction and having an upwardly sloping course and a horizontal course extending from the upper end of the sloping course, a flow box for receiving a supply of liquid pulp stock and having a discharge chute including an outflow plate, for directing said stock onto the upper portion of the sloping course and the adjacent portion of the horizontal course of said screen to form a web of pulp of progressively increasing thickness along a predetermined portion of said screen and having a thickness at the juncture of said sloping and horizontal courses intermediate that of the initial and completed portions of the web, and guide means in said discharge chute disposed above said outflow plate and said screen for guiding a wire horizontally onto said web of pulp at the juncture of said sloping and horizontal courses of said screen for movement with said web along the horizontal course of the screen.

2,666,371
SUCTION PRESS ASSEMBLY
Edward D. Beachler, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application September 27, 1950, Serial No. 187,011
2 Claims. (Cl. 92—49)



1. A suction press assembly for a paper making machine comprising a first suction press roll, a plain roll thereabove cooperating therewith to define a horizontal suction press nip, a looped pick up felt turned about said plain press roll for conveying a moist paper web to said press nip, a suction pick up roll also within the loop of said pick up felt for acting therethrough to pick up a moist paper web from a forming section of a paper machine, said pick up felt having a horizontal run the entire distance from said pick up suction roll to said press nip, a press felt trained through said suction press nip and lapping said first suction press roll for receiving the moist paper web at said nip, a second suction press roll, a transfer felt lapped about said second suction press roll, said second suction press roll having a suction area acting through said transfer felt at the point of contact of said transfer felt with said moist paper for transferring said moist paper web to said transfer felt, said press felt having a horizontal run the entire distance from said press nip to the point of transferring said web to said transfer felt, and a Yankee dryer drum defining a press nip with said second suction press roll at a point peripherally spaced from the point of transfer of said paper web to said transfer felt and receiving said paper web from said transfer felt for travel with said dryer drum on the surface thereof, whereby the web is conveyed in a substantially horizontal plane from said suction pick-up roll to said second suction press roll.

2,666,372
AUTOMATIC COUNTING AND TABBING MACHINE FOR PRESSES
Jacob R. Lauffer, Valley Stream, N. Y., assignor, by mesne assignments, to Hills-McCanna Company, Chicago, Ill., a corporation of Illinois
Application May 2, 1950, Serial No. 159,469
9 Claims. (Cl. 93—93)



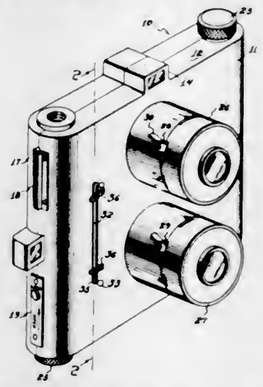
1. For use with a machine arranged to pile sheets individually at a reception point and having a movable part whose movement is synchronized with the delivery of individual sheets to said point, an electric switch positioned relative to said movable part to be operated once for each sheet delivery movement of said part, a rotatable shaft, an electric circuit including said switch, a step by step electrically operated rotating mechanism connected in said circuit for rotating said shaft one step each time said step by step mechanism is actuated by operation of said switch, switch operating means connected to said shaft, a pair of electric switches in said circuit adapted each to be operated by said switch operating means in sequence and at different times relative to each other once for each complete rotation of said shaft, a tab strip feeding mechanism, means for electrically operating said mechanism, a cutting-off mechanism for severing tabs from said strip, an electric means for operating said cutting-off mechanism, one of said pair of electric switches being connected in series with said means for operating said tab strip feeding mechanism and the other switch being connected in series with said electric means for operating the cutting-off mechanism, a second rotatable shaft geared to said first-mentioned shaft with a determined gear ratio, a switch operating disc secured to said second shaft for rotation therewith and having a recess in its periphery, an additional switch in series connection with the first-mentoned of said pair of switches and adapted to be operated by said last-named disc and said last-named switch having an operating lever in contact with the periphery of said disc and positioned to maintain said last-named switch in open circuit except when its operating lever engages in the recess of said disc.

2,666,373
TRAFFIC MARKER
Elbert C. Mattson, Portland, Oreg.
Application June 29, 1950, Serial No. 171,014
5 Claims. (Cl. 94—1.5)



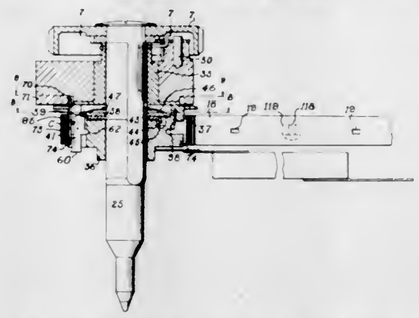
1. A non-warping traffic marker adapted for bonding to the traffic surface of a pavement, made of molded plastic which has a coefficient of linear expansion more than five times that of steel and consequently having a tendency to curl when subject to extreme heat on a hot road surface, the marker having a reflective convex upper surface to reflect heat and a flat lower face, and a large number of independent cells in said lower face, said cells being separated by a plurality of intersecting bars, the wall of said cells as defined by said bars presenting a large substantially vertical surface area to a bonding material for securing said marker to a pavement surface, and the reduced surface contact of the bars with the pavement interrupting said lower face to reduce transfer of heat from the pavement and relieve expansion strains thereby reducing the curling tendency of the marker, said bars supporting the marker and being distortable to sustain heavy loads without damage to the marker.

2,666,374
DUAL CAMERA
Frederick L. O. Roehrig, Yucaipa, Calif.
Application January 10, 1951, Serial No. 205,239
4 Claims. (Cl. 95—18)



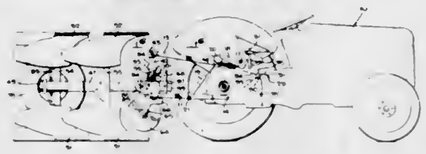
1. In a dual film camera, a film housing having a division wall forming two film compartments, a pair of objective lenses each provided with a shutter actuating lever, each lens opening into a compartment, a link adapted to be detachably connected to said levers whereby said levers may be actuated simultaneously, said levers each having a slot and said link having an enlarged portion on each end formed with a groove for interfitting frictional engagement and retention in one of said shutter lever slots.

2,666,375
FILM METERING TAPE CONTROL SYSTEM FOR CAMERA FILM WINDS
Herbert A. Bing, Wellesley, Mass., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 28, 1951, Serial No. 218,009
15 Claims. (Cl. 95—31)



1. A film metering control for extrusion loading cameras comprising, in combination, a camera body having an exposure frame, a spool chamber on each side of the exposure frame, and a film winding post having a spool engaging configuration thereon, a winding knob on the post for turning a film spool, the film spool also having a configuration to be turned by the configuration of the post, a sheave mounted to turn on the post, a friction clutch between the sheave and post tending to turn the sheave by the post, a tape attached to the sheave and of the type tending to move into a coil, said tape including means for indexing exposure areas of film, mechanism for positively attaching the winding post and sheave, and a release for said mechanism under the control of the tape to release the mechanism for positively connecting the sheave and post after predetermined movement in unison of the post and sheave.

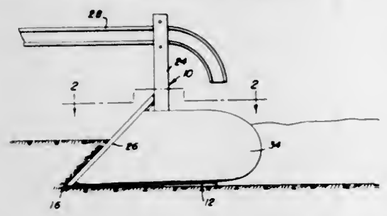
2,666,376
TRACTOR MOUNTED TWO-WAY PLOW
Harry A. Pursche, Gardena, Calif.
Original application August 14, 1948, Serial No. 44,338. Divided and this application July 25, 1951, Serial No. 238,524
9 Claims. (Cl. 97—26)



1. In a two-way plow assembly, the combination of: a frame having a rearwardly extending longitudinal beam, a carrier turnably mounted on the beam and having limited longitudinal movement thereon, a right-hand plow and a left-hand plow fixed on the carrier, power means on

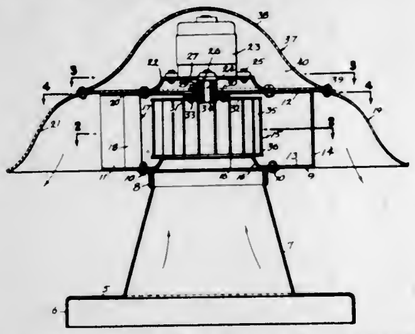
the frame adapted to turn the carrier to bring either of said plows into operative position, and latch means on the carrier and frame adapted to prevent relative turning movement of the carrier and frame, said latch means including an element on the carrier movable into cooperative engagement with a second element on the frame under action of the drag of one of the plows in the ground.

2,666,377
CORRUGATOR PLOW
Homer A. Schnell, Filer, Idaho
Application November 15, 1949, Serial No. 127,305
1 Claim. (Cl. 97—225)



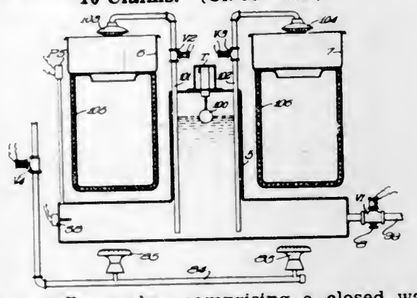
A corrugator for forming ground furrows comprising a flat plate runner, said runner being gradually widened in a horizontal transverse direction towards the rear of the corrugator, a vertical standard secured to the upper surface of said runner intermediate its ends, a diagonal angle bar secured to said runner at its front end and to said standard intermediate its ends, said runner, angle bar and standard forming a rigid trussed frame, the front of said runner being beveled in alignment with said angle bar, outwardly bowed rigid side sheets secured to the edges of said angle bar and extending rearwardly as an extension thereof, said sheets having their bottom edges secured to the upper face of said runner with the upper edges disposed in the same horizontal plane and spaced from each other, and the rear edges of said side sheets being curved and fanned outwardly beyond the side edges of said runner, the side edges of said runner being upwardly and outwardly beveled in alignment with the outer surface of said side sheets, and a horizontally extending drawbar rigidly secured to said standard adjacent its upper end.

2,666,378
VENTILATOR
Cecil L. Ammerman, Minneapolis, Minn.
Application March 22, 1952, Serial No. 278,062
1 Claim. (Cl. 98—43)



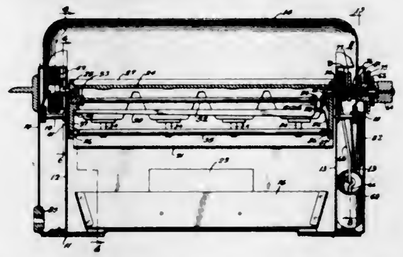
In a ventilator, a base having an upstanding central intake throat that is upwardly tapered to an annular member, the side wall of which is parallel to the axis of the throat, a fan housing having parallel top and bottom members and a side wall perpendicular to the top and bottom members, said housing having a discharge throat between said top and bottom members perpendicular to the axis of the intake throat, the side walls of the housing progressively increasing in diameter from one side of the discharge throat to the other, an annular flange fixed to the bottom member of the housing capping the annular member of the intake throat and removably supporting the housing thereon, said housing bottom member having a large hole concentric with the axis of the intake throat, the bottom member surrounding the hole therein being upwardly offset to afford a stiffening member therefore, a storm band comprising a flat horizontal head member and an apron on said head member resting on the housing top member and extending to the outer edge thereof, said apron being outwardly of the housing and extending from said top member substantially to the bottom member and in cross-section being in the form of a reverse curve, the central portion of the body member being upwardly offset to afford a motor base, said head member being detachably secured to the housing top member, an electric motor mounted on the motor base with its armature shaft extending into the housing, a sirocco fan in the housing fixed to the armature shaft of the motor and a cap encasing the motor and resting on the apron and detachably secured thereto.

2,666,379
AUTOMATIC COFFEE URN AND CONTROL THEREFOR
Herbert E. Kaminky, Chicago, Ill., assignor to The Superior Tea and Coffee Company, Chicago, Ill., a corporation of Illinois
Application June 8, 1949, Serial No. 97,886
10 Claims. (Cl. 99—282)



2. A coffee maker comprising a closed water heating chamber, a coffee brewing chamber, a water transfer conduit connecting said heating chamber to said brewing chamber, an electrically operated shut-off valve in said conduit, an actuating circuit for said shut-off valve, first relay means having normally open contacts in said actuating circuit and having a further pair of normally open contacts, a manual switch for controlling the actuating circuit of said first relay means, control relay means having an actuating circuit controlled by said further normally open pair of contacts and having a pair of normally open contacts, an electrically operated water supply valve for controlling introduction of water into said heating chamber, an actuating circuit for said water supply valve including said normally open contacts of said control relay means, a thermal responsive device responsive to a predetermined temperature of the water in said water heating chamber including a switch having normally open contacts in said shut-off valve actuating circuit, a pressure responsive device responsive to a predetermined pressure within said water heating chamber including a switch having normally closed contacts in said water supply valve actuating circuit and having normally open contacts in said actuating circuit for said shut-off valve, whereby when said manual switch is actuated to actuate said first relay means, said control relay means is actuated so that said water supply valve actuating circuit is controlled by said normally closed contacts of said pressure responsive device, and when the pressure in the heating chamber builds up to said predetermined pressure, said pressure switch cuts in the water transfer shut-off valve and cuts out said water supply valve actuating circuit to prevent refilling during the water transfer operation.

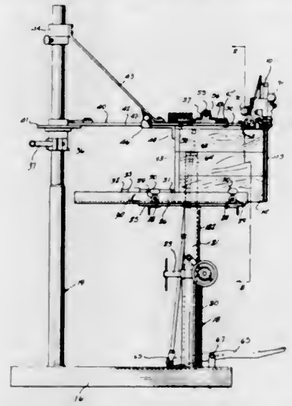
2,666,380
COOKING DEVICE FOR COOKING BATTERS
Benjamin Wilson Badenoch, Los Angeles, Calif., assignor of one-half to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application August 18, 1948, Serial No. 44,848
18 Claims. (Cl. 99—329)



3. A cooking device for cooking batter comprising a frame, a plate pivoted on the frame on a horizontal axis, the plate being formed with a cavity having and opening therethrough extending partially over the bottom and one side of the cavity, a closure fitting slidably in the opening and forming with the plate a substantially smooth mold surface at the interior of the cavity, the plate and closure being rotatable on the frame from an upright to an inverted position, and means connecting the closure to the frame to movie it first in one direction and then in the other relative to the plate as the plate and closure are rotated.

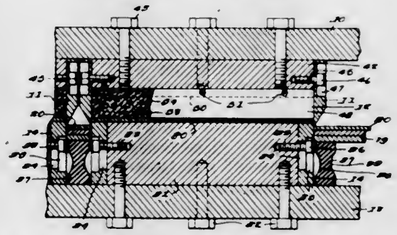
2,666,381
MACHINE FOR APPLYING STRAPS TO CONTAINERS
Vernon C. Sherman, Plymouth, and Bradford H. Cole, Carver, Mass.
Application November 29, 1949, Serial No. 130,032
3 Claims. (Cl. 100—31)

1. A machine for applying straps to containers comprising a first standard, a horizontally disposed table disposed adjacent the upper end of said standard and connected to said standard for vertical movement for supporting a container to which straps are to be applied, means operatively connected to said standard for holding said table in a select position of its vertical movement, a second standard arranged in spaced relation with respect to said first standard, a horizontally disposed support arranged in superimposed spaced relation with respect to said table and connected at one end to said second standard for vertical movement relative to said table and for rotational movement about said second standard as an axis, a carriage extending longitudinally of said support and having one end adjacent to and spaced from the other end of said support, said carriage being connected intermediate its ends to said support for longitudinal extensile and contractile movement with



respect to the other end of said support, means on said one end of said carriage for attachment of a strapping machine thereto, means operatively connected to said carriage for effecting the extensile and contractile movement of the latter, and operating mechanism guidingly mounted in relation to said first standard for manually actuating the means operatively connected to said carriage.

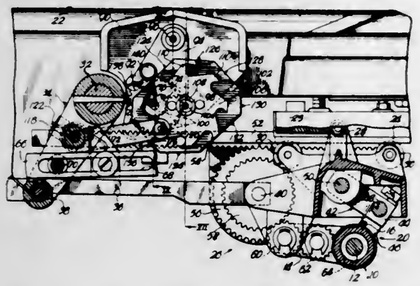
2,666,382
PARQUETRY DESIGN ASPHALT TILE DIE
Harry A. Hachmeister, Pittsburgh, Pa.
Application February 1, 1951, Serial No. 208,897
1 Claim. (Cl. 101—30)



In a tile making die, an upper shoe having a plurality of squares thereon, cutting knives positioned around the squares, design impressing blades arranged between said knives and having V-shaped lower ends, a lower shoe having squares thereon and provided with cutting bars positioned around the edges of the squares, a stripper frame on said lower shoe including longitudinally extending bars, cross bars extending between said longitudinally extending bars and secured thereto, extensions on said upper and lower shoes provided with openings, posts extending through said openings, sleeves depending from the extensions on said upper shoe providing guides for said posts, master blocks secured to said lower shoe, said cutting bars being provided with a plurality of slots terminating in countersunk outer ends, cap screws extending through said slots and having heads positioned in said countersunk outer ends, re-

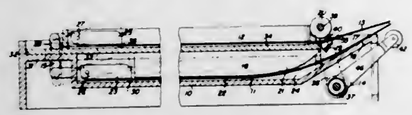
silient return strips having concave surfaces positioned between said blocks, a plurality of master blocks secured to said upper shoe and positioned directly above the blocks in said lower shoe, a plate secured to the undersurface of the master blocks on the upper shoe, sponge rubber blocks secured to said plate, and corner pads secured to the ends of certain of said sponge rubber blocks.

2,666,383
ROLLER PLATEN CONTROL IN ADDRESSING MACHINES
Lewis S. Prosser, Jr., Shawnee, Kans.
Application November 16, 1950, Serial No. 195,999
4 Claims. (Cl. 101—56)



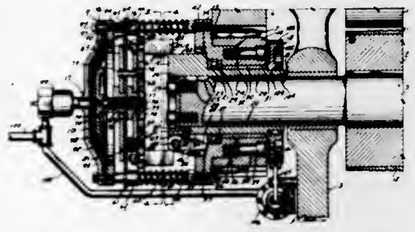
1. In a printing machine adapted for use with a printing plate provided with a number of rows of type, said machine having a reciprocable roller platen provided with a single printing strip, apparatus for reciprocating said platen to and from a printing position with respect to said plate, rocker means operably connected with said apparatus for actuating the latter, structure including a shiftable rack for oscillating the platen in response to reciprocable movement thereof, and a swingable, spring-loaded arm for shifting said rack; the improvement which comprises arm control mechanism for initially setting the rack and the platen to render the single printing strip thereof effective during successive cycles of reciprocation of the platen upon a different row of type on said plate, said mechanism including a rotatable disc having a plurality of peripheral cam faces successively engageable with said arm as the disc is rotated to swing the arm against the action of the spring thereof, the radial distances between the cam faces and the axis of rotation of the disc all being different; and means interconnecting said rocker means and the disc for imparting step-by-step rotative movement to the disc as the platen is reciprocated.

2,666,384
PHOTOGRAPHIC COPYING APPARATUS
Henry C. Yutzy and Guy D. Aydlett, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 21, 1951, Serial No. 262,778
18 Claims. (Cl. 101—131)



1. A processing and image-transfer apparatus comprising a processing fluid container having an opening through which an exposed sensitized sheet may be inserted and withdrawn, means adapted to support an image-receiving sheet externally of the body of processing fluid, an arm pivotally connected to the apparatus and adapted to be rotated between operative and inoperative positions, a pressure device secured to the arm, and means on the container adjacent to said opening cooperating with said pressure device when the arm is rotated into operative position to exert pressure upon the sensitized sheet and image-receiving sheet as the sheets are withdrawn from the apparatus in superposed relation between the pressure device and said cooperating means.

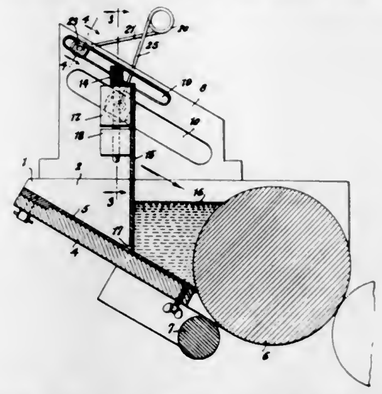
2,666,385
INDEXING APPARATUS FOR PRINTING PRESSES
Robert W. Bender, Johnson County, Kans., assignor to Richard Zimmerman, Lawrence, Kans.
Application February 23, 1951, Serial No. 212,390
3 Claims. (Cl. 101—248)



1. In an apparatus of the character described, concentrically rotatable driving and driven members, a clutch element pivotally carried by the driven member, a circular track carried by the driving member and having spaced engaging portions for the clutch element, a spring normally urging the clutch element into position for engaging one of said portions to effect a driving connection between said members, a lug carrier axially movable with respect to said members and having connection with the driving member, the lugs located on said lug carrier in corresponding relation with clutch element engaging portions for moving the clutch element out of engagement to effect release of the driving and driven members for advance of the driving member until the clutch element is engaged with the other of said lugs to drive the driven member while the clutch element is re-engaging with the related engaging portion, means for moving the lug carrier into and out of engaging position with said clutch element, said lug carrier having limited rotative movement with respect to the driving member permitting engagement of the clutch element with a clutch element engaging portion during advance of the driving member, and a spring loaded responsive to said limited movement when said other lug engages the clutch element to bring said engaging lug into registry with the clutch element as the lug carrier is moved out of engaging position with said clutch element.

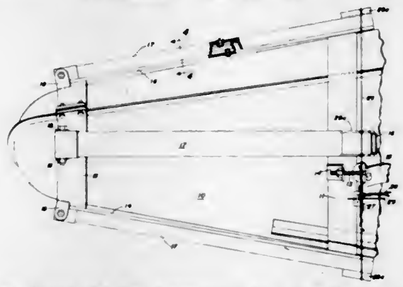
2,666,386
FEEDING DEVICE FOR INK FOUNTAINS
Hans Jovishoff and Ben W. Karp, New York, N. Y.
Application March 5, 1952, Serial No. 274,864
5 Claims. (Cl. 101—364)

1. An apparatus of the character described, comprising an ink fountain having an inclined bottom member, an inking roller located at the outlet end of the fountain, a blade arranged vertically within the fountain and extending for the length of the fountain and movably supported by parts on the end walls of the fountain, said parts constituting supports for the opposite ends of the blade, each of said supports being



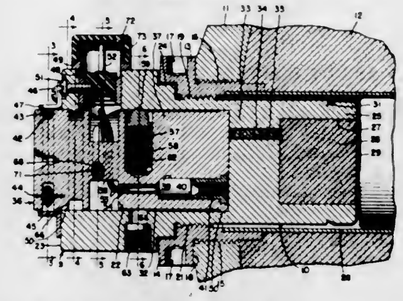
provided with an inclined guide slot of an inclination similar to that of the inclined bottom member, the blades having elements riding in said slots, and springs for urging the blade toward the periphery of the roller and downwardly at an angle defined by the guide slots, said springs having ends engaging and adjustable in said supports.

2,666,387
STABILIZING FINS FOR MISSILES
David M. Richey, Devon, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application December 7, 1949, Serial No. 131,530
2 Claims. (Cl. 102—2)



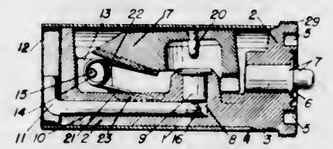
1. A foldable fin assembly for a missile comprising a pair of spaced mounting bands adapted to encircle the missile one forwardly of the other for securing the assembly to the missile, a plurality of channel members fixedly attached to the bands so as to extend fore and aft of the missile, a plurality of fin arms each hingedly mounted on a different one of said channel members at its aft end portion for swinging movement toward and away from said channel member and adapted to telescope over the sides of the channel member to form a fin enclosing casing, a fin panel enclosed in each casing, each fin panel having one edge secured to the channel member and another edge secured to the respective fin arm, a lashing for retaining the panels confined in their respective casings, and means for releasing said lashing after the missile is launched whereby the arms may swing out to extended position.

2,666,388
BOMB FUZE
John M. Wheeler, Greeley, Colo.
Application August 3, 1945, Serial No. 608,809
7 Claims. (Cl. 102—70.2)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A fuze for a demolition bomb comprising an adapter, a complementary member supported by said adapter, a booster charge arranged within said complementary member, a releasable arming rotor supported within said complementary member in an initial safe position and adapted to be rotated a predetermined distance to an armed position, a flexible element detachably secured to and wrapped around the arming rotor for rotating the arming rotor from said initial safe position to said armed position, a frangible member for securing said flexible element to the arming rotor and constructed and arranged to be sheared and to detach the flexible element from the arming rotor in response to pressure exerted thereon as the rotor moves to said armed position, means for releasably maintaining said arming rotor in said safe position, means for locking the arming rotor in said armed position, and electroresponsive means arranged within the arming rotor and adapted to fire said booster charge when the arming rotor has been rotated to said armed position.

2,666,389
FUZE
Lyle M. Cooper, Rahway, N. J., assignor to the United States of America as represented by the Secretary of War
Application November 7, 1944, Serial No. 562,370
3 Claims. (Cl. 102—76)



1. A combination fuze adapted for use in the nose end of a tail ejection bomb, comprising a base having a generally cylindrical outline defined by circular disc portions forming the head and rear ends of the base, a primer charge well located intermediate said head and rear ends in the base, a pair of parallel lobes adjoining the rear end of the base, a pair of drilled holes aligned in said lobes to hold a hinge pin, a striker lever pivotally mounted at one end on a hinge pin passed through said drilled holes, a weighted portion at the other end of said lever, a firing pin in said striker lever at its free swinging end, a torsion spring coiled around said hinge pin with one end

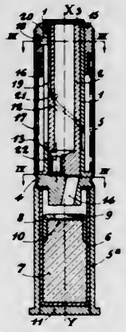
bearing against the striker lever to restrain its swinging movement, a vented passageway leading from the primer well in the base to the rear end of the base for holding a powder train delay element, a plastic cup for holding a first fire charge adjacent the rear end of the base, and a thin metal cylinder surrounding said plastic cup and fuze base up to the head end of the base.

2,666,390

SAFETY DEVICE FOR PROJECTILES

Edgar William Brandt, Geneva, Switzerland, assignor to Anstalt für die Entwicklung von Erfindungen und gewerblichen Anwendungen "Energa," Vaduz, Liechtenstein, a corporation of Liechtenstein

Application September 25, 1950, Serial No. 186,556
Claims priority, application Switzerland September 26, 1949
4 Claims. (Cl. 102—78)



1. A safety and fire transmission device for projectiles provided with a fuze and a detonator spaced from said fuze, comprising a hollow body member adapted to be fixed in the projectile, the base of said body member having a longitudinal aperture opposite the detonator, an elongated rotatable obturator member journaled within said body and having a longitudinal passage with an eccentric portion, a resilient means outside the body member, and an axially guided member outside the body member, and supported by the resilient means, said axially guided member being adapted to be moved under the effect of the positive acceleration of the projectile against the action of the said resilient means and effecting the rotation of said obturator member, one of said obturator member and axially guided member being formed with a groove the extremities of which are angularly displaced from each other about the axis of the device, a sliding element on the other said member, said sliding element being guided in said groove, said eccentric portion of the passage in the obturator member when the said member is rotated, being brought into registration with the inner end of the longitudinal aperture of said body member.

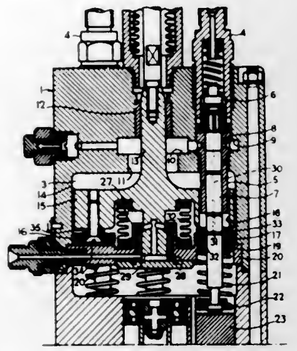
2,666,391

FUEL INJECTION PUMP

William Friedlander, Westminster, London, England, assignor to Mono-Cam Limited, Westminster, London, England, a company of Great Britain

Application June 4, 1951, Serial No. 229,792
Claims priority, application Great Britain June 6, 1950
4 Claims. (Cl. 103—2)

1. A fuel injection pump comprising a pump housing, a plurality of pump piston and cylinder assemblies located within the housing with their axes parallel to each other, each piston being reciprocable in a cylinder, a cam for reciprocating the pistons, a spill passage in each piston, a spill chamber formed in the housing, an element slidable axially on each piston to determine by its axial position the point in the stroke of the piston at which the spill passage therein will be placed in communication with the spill chamber, a regulating member mounted within said spill chamber and displaceable in a direction parallel to said axes, a first abutment surface formed on said member to extend normal to said axes, a first locating surface associated with each of said



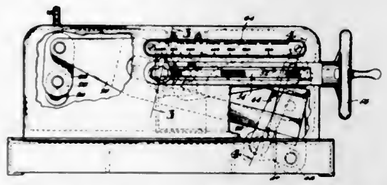
elements and arranged to slidably engage said first abutment surface, a second abutment surface formed on said member and spaced from said first abutment surface in a direction parallel to said axes, and a second locating surface associated with each of said elements and arranged to slidably engage said second abutment surface, said first and second abutment surfaces engaging said first and second locating surfaces respectively to control said axial position of said elements whilst permitting the latter to adjust themselves in a direction normal to said axes by said first and second locating surface sliding over said first and second abutment surfaces respectively.

2,666,392

PUMP FOR PRECISION ADJUSTMENT

Edward G. Martin, Cambridge, Mass.

Application October 15, 1948, Serial No. 54,694
3 Claims. (Cl. 103—38)



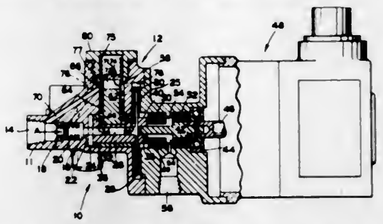
1. A pump comprising a cylinder, a piston, a linkage for driving the piston, including a walking beam, a fulcrum therefor, a support for said fulcrum along which the fulcrum is adjustable, a crank for rocking the beam, a link pivotally connected to the beam for actuating the piston, and a rigid member pivotally connected at one end to the beam and at the other end to the support for longitudinally positioning the beam during rocking movement, the fulcrum being adjustable along a line so oriented that the position of the beam is unchanged when the beam is at the limit of its rocking movement on the compression stroke of the piston.

2,666,393

SELF-PRIMING CENTRIFUGAL PUMP

Henry Troeger, Ramsey, and Robert M. Flanagan, Morris Plains, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application September 28, 1949, Serial No. 118,204
6 Claims. (Cl. 103—113)



1. In a centrifugal pump driven by a motor, the combination comprising a casing including an inlet and an outlet, a through bore and an impeller chamber in said casing in axial alignment with said inlet, a check valve in said bore restricting the flow from said inlet to a predetermined pressure, a bearing in said bore, an impeller in said impeller chamber having a hollow shaft rotatably mounted in said bearing, said hollow shaft having an open end communicating with said inlet downstream of said check valve, the interior of said impeller communicating with the interior of said hollow shaft, the exterior of said hollow shaft being grooved to form an eccentric cam surface, a driving shaft attached to said impeller and adapted to be driven by said motor, a second bore in said casing perpendicular to said first bore and extending through said bearing and isolated from said through bore by said bearing and hollow shaft, a first sleeve concentric within said second bore, a movable piston within said sleeve, spring means anchored to said sleeve normally urging said piston against said cam surface, a liquid intake chamber in said second bore above said piston, a passage in said casing from said inlet to said intake chamber including a port in said sleeve, a discharge chamber in said second bore, a valve controlling communication between said intake and discharge chambers, a passage in said casing from said discharge chamber to said through bore downstream of said check valve and upstream of the open end of said hollow shaft, a pressure throttling valve of predetermined setting intercommunicating said impeller chamber and said outlet, passageway means from said impeller chamber opening to said second bore below said piston to conduct fluid pressure to the underside of said piston to overcome said spring means and render said piston inoperative thereby preventing priming liquid flow from said inlet to the downstream side of said check valve upon said impeller operating to open said check valve and pump liquid directly from said inlet.

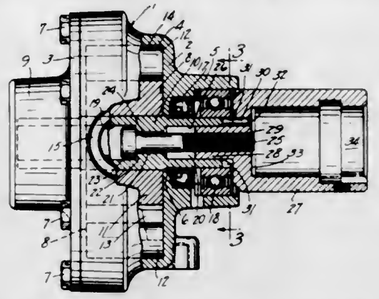
2,666,394

PUMP CONSTRUCTION

Harry J. Sadler and Ernest E. Cook, Minneapolis, Minn.

Application October 27, 1952, Serial No. 316,992
3 Claims. (Cl. 103—117)

1. In a fluid pump, a housing comprising a main section and a cover plate section therefor, said housing defining a cylindrical chamber having circumferentially-spaced inlet and outlet passages, a drive shaft extending through said chamber eccentric to the axis thereof and having its opposite ends journalled for rotation in said housing sections, an impeller element on said shaft within said chamber, said drive shaft having an axial opening therethrough, a headed bolt extending through said opening, said bolt having a head at one end and terminating at its opposite end in screw-threads, said opening through said drive shaft having a diametrically enlarged portion providing an annular axially extended opening about said screw-threaded end,



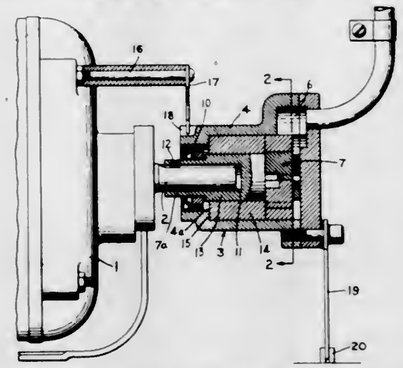
a rotary driving head having a diametrically reduced end portion telescopically receivable in said annular recess and having a central screw-threaded opening for the reception of the threaded end of said bolt, the direction of the threads on said bolt and driving head being such that said head tends to unscrew itself from said bolt under normal driving rotation, and a shear-pin rotated by said driving head and shaft and connecting same for common rotary movements.

2,666,395

ROTARY PUMP ADAPTED TO BE SUPPORTED AND ACTUATED BY A POWER TAKE-OFF SHAFT OF A MOTOR

George W. Hartwell, Springfield, Mass., assignor to Worthington Corporation, a corporation of Delaware

Application December 21, 1949, Serial No. 134,330
2 Claims. (Cl. 103—118)



1. A rotary pump operated and wholly supported by the power take-off shaft on a motor including a casing having an opening on the side adjacent the power take-off shaft and an annular shoulder formed in the casing inwardly of said opening, a pump rotatable in said casing and having an extension projecting outwardly through said opening with a bore in the outer end thereof to mount said rotor on said power take-off shaft, and means to lock said rotor extension to said power take-off shaft to allow

said rotor to rotate therewith, a bearing portion formed integrally with said extension on the portion thereof disposed inwardly of said opening, a bearing member mounted in said casing and abutting said annular shoulder, said bearing member mounted on said bearing portion of the extension to wholly support said casing thereon, and means to prevent rotation of said casing on rotation of said rotor.

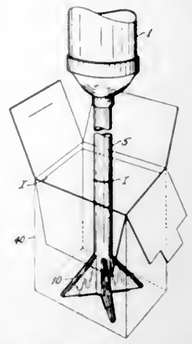
2,666,396
MULTIPLE CYLINDER RECIPROCATING PUMP WITH RACK AND PINION ACTUATING MEANS
Charles C. Kruse, Bothell, Wash.
Application March 10, 1950, Serial No. 148,881
3 Claims. (Cl. 103—170)



1. A liquid pump of the class described comprising a plurality of pistons, pipes receiving said pistons, a piston rod carried by each piston, a loop carried by each rod, each loop having opposite side portions the loops being in substantially parallel relation, a shiftable drive shaft movable transversely through said loops, drive means carried by said shaft and selectively engageable with said side portions of the respective parallel loops for moving the respective pistons in opposite directions, and co-acting means carried by said loops and said shaft for shifting said drive shaft transversely of said loops to bring said drive means into selective engagement with said opposite side portions of said loops to reverse the direction of travel of said pistons when said pistons reach predetermined positions.

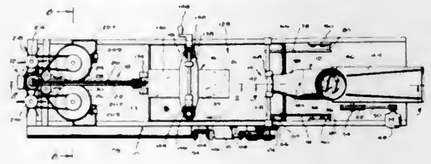
2,666,397
MEANS FOR EMBODYING FRUIT IN DECORATIVE DESIGNS IN BRICK ICE CREAM
Lawrence Skok, Euclid, Ohio
Application March 15, 1948, Serial No. 14,908
2 Claims. (Cl. 107—1)

1. A device for embodying center flavoring material in predetermined pattern in brick ice cream while in a semi-solid state in a container, comprising a vertical tube having outwardly and downwardly flaring wings of less width than the diameter of the tube and opening downwardly in a substantially common plane with the lower end of the tube and radiating from the tube as a common center, each wing having a downwardly opening slot-like discharge orifice, means for forcing the flavoring material through the tube and wings whereby the material may be simultaneously ejected from the several slot-like openings while the wings are being withdrawn upwardly through the semi-solid ice cream, the



sloping upper edges of the wings being curved to facilitate the withdrawal.

2,666,398
AUTOMATIC MACHINE FOR FORMING BAGLE-DOUGH RINGS
Louis Gendler, New York, and Morris Lazar, Jamaica, N. Y., assignors to American Bagel Machine Co., Inc., New York, N. Y., a corporation of New York
Application September 30, 1948, Serial No. 51,886
28 Claims. (Cl. 107—4)

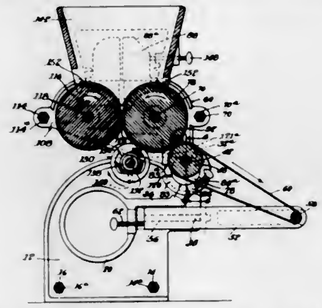


1. In a machine for forming rings of dough, means for shaping dough pieces in succession into substantially cylindrical form, a horizontal conveyor positioned to receive said dough pieces and movable in a direction transversely of the lengths of said cylindrical dough pieces and being narrower than the lengths of said pieces whereby the latter when deposited on said conveyor automatically bend into inverted U-shape, means comprising companion members movable at the same linear speed as said conveyor and positioned to receive therebetween the end portions of the U-shaped dough pieces, respectively, and press said end portions together to form endless dough pieces from said U-shaped pieces, respectively, means positioned to receive said endless dough pieces and round them into circular peripheral contour, said last mentioned means comprising a plurality of movable endless flexible belts disposed in a generally circular arrangement and collectively defining a conveyor having an inner cylindrical moving surface which engages said endless dough pieces and performs said rounding operation thereon, and means for moving said belts in unison in the same direction.

2,666,399
MACHINE FOR FORMING TORTILLAS AND THE LIKE
Armando J. Pereyra, Bremerton, Wash.
Application March 25, 1949, Serial No. 83,342
9 Claims. (Cl. 107—12)

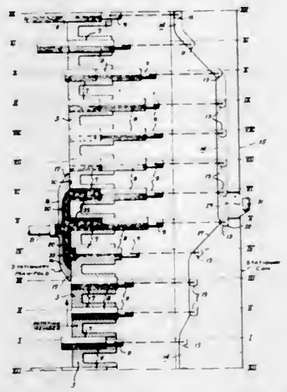
1. A machine for forming tortillas and the like including: a base having aligned bearings therein

open for a portion of their periphery; a rotary cutter member supported in said bearings; a first dough roller mounting means having a frame removably mounted on said base and a first dough roller mounted in said frame; a second dough roller mounting means having a frame removably mounted on said base and a second dough roller mounted in said second frame and cooperating with the first dough roller to roll out a sheet of dough and bearing against the cutting element of the cutter member and retaining the latter in its bearings; a second pair of aligned bearings in



said base; a drive shaft mounted in said second pair of bearings and retained therein by engagement with said second frame while the latter is in operative position; means for driving said cutter member and first and second rolls at predetermined speed from said drive shaft and a dough hopper positioned over and bearing against said frames to hold them toward one another, said hopper being free of attachment to the base and the frames and vertically removable from position, removal of the hopper enabling all elements of the machine to be disassembled without the use of tools.

2,666,400
PRODUCTION OF PLASTIC MASSES
Clarence W. Vogt, Norwalk, Conn.
Application May 25, 1949, Serial No. 95,270
14 Claims. (Cl. 107—15)



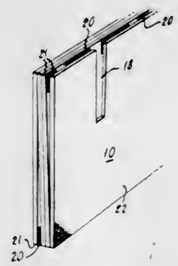
1. Apparatus for producing unit masses of plastic material which comprises a molding unit, a piston member mounted for sliding movement within said molding unit, a source of supply of plastic material movable with respect to said molding unit into and out of communication with said molding unit, means for forcing plastic material through said source of supply at superatmospheric pressure, and means for actuating said piston to overfill and expel plastic material from said molding unit while the molding unit is in communication with plastic material under pressure and for depositing a unit mass of plastic material of predetermined quantity from said molding unit when the molding unit is not in communication with plastic material under pressure.

2,666,401
DEVICE TO SHAPE PIECRUST DOUGH
Thomas McQuaid, Boston, Mass.
Application April 11, 1952, Serial No. 281,807
2 Claims. (Cl. 107—47)



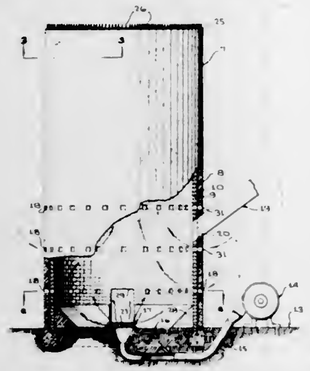
1. A dough shaping assembly comprising, in position of use, a lifter platform embodying a solid outside portion and elongate strips extending across an intermediate portion of said platform spaced laterally apart and having a plurality of elongate openings extending therethrough in alternating arrangement with said strips, and a base plate having a solid bottom and an upturned outer edge and elongate dies extending outwardly from an intermediate portion of said bottom and extending through said platform elongate openings, the said platform solid portion resting upon said base plate upturned outer edge and extending beyond thereof to thereby overlie said base plate.

2,666,402
SELF-SEALING SHINGLE
George W. Clarvoe, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application August 10, 1948, Serial No. 43,459
6 Claims. (Cl. 108—7)



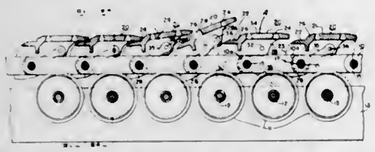
1. A pair of prepared asphaltic exterior covering sheets each having front and back surfaces and arranged with one of said surfaces of one sheet facing one of said surfaces of the other sheet, said facing surfaces each having spaced patches of cementing material so arranged that the patches of the respective surfaces are partially in register with each other, the registering cementing material of the patches forming integral cementing layers connecting the sheets together, said cementing material comprising a bituminous compound fracturable at normal ambient temperatures and having high wetting characteristics and high adhesive characteristics under solar radiation at normal temperatures, said compound having a ring and ball softening point of the order of 175° F. to 200° F. and a penetration at 115° F., 50 grams, 5 seconds, in the range 5–20.

2,666,403
CORNCOB BURNER
Walter C. Polk, Fort Branch, Ind.
Application July 13, 1951, Serial No. 236,580
2 Claims. (Cl. 110—18)



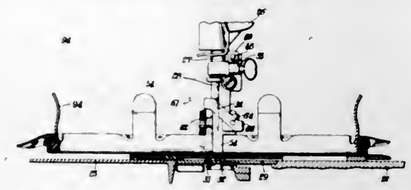
1. In an incinerator, a vertical cylindrical hollow housing having a substantially plain cylindrical sidewall and being open at its upper end, a bottom wall closing the lower end of said housing, a tuyère grate mounted on and rising above said bottom wall and concentrically spaced from said sidewall, said grate being provided with side openings and with top openings, means connected to said grate for supplying air under pressure to said grate to discharge air laterally toward the housing sidewall at the lower end of the housing and upwardly in the housing, a declining charging spout having a lower end traversing the housing sidewall and entering the interior of the housing adjacent to the lower end of the housing and on a level above said grate, the housing sidewall being provided with a plurality of horizontal rows of circumferentially spaced outside air intake openings, one of said rows of air intake openings being located on a level between the lower end of the charging spout and said grate, and another row of air intake openings being located on a level immediately above the lower end of the charging spout.

2,666,404
STOKER APPARATUS
Wilbur Kessler, Broomall, Pa., assignor, by mesne assignments, to Detroit Stoker Company, a corporation of Michigan
Application February 13, 1951, Serial No. 210,714
6 Claims. (Cl. 110—40)



1. A grate bar assembly for a stoker of the chain grate type having pivot pins disposed transversely relative to the direction of travel, comprising a substantially rectangular fuel-supporting portion having a leading edge and a trailing edge, a flange portion extending at an angle from said leading edge, a plurality of web portions depending from the grate bar and disposed in planes normal to said leading edge and flange portion, each of said web portions having a slot near said leading edge and extending in a longitudinal plane spaced from and substantially parallel to said fuel-supporting portion, each of said slots having parallel longitudinal sides extending from a closed end to an opening at the end of the web remote from said flange portion, said slots being adapted to receive one of the pivot pins of the grate chain in sliding engagement with said longitudinal sides, each web portion terminating in a lug portion having a linkage connection at a point intermediate the corresponding slot and said trailing edge of the fuel-supporting portion, and links adapted to be mounted rotatably on said pivot pins and detachably connected to said linkage connections.

2,666,405
HINGED PRESSER-FOOT
John P. Enos, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application June 5, 1951, Serial No. 229,978
4 Claims. (Cl. 112—235)



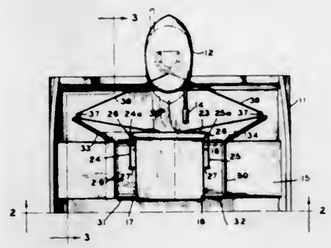
1. A presser mechanism for sewing machines having a presser-bar and a needle-bar, comprising an attaching shank, a post rising from said shank, a horizontal bar secured to the upper end of said post and positioned for engagement by a portion of said needle-bar, a presser-foot carrying arm pivotally mounted upon said post for swing out movement of the presser-foot from an operative position below to an inoperative position above the level of the lower portion of said shank, a presser-foot latching member carried by said presser-arm, and a complemental latch-element carried by said shank.

2,666,406
BOAT HULL
Vearne C. Babcock, Deland, Fla., assignor to Kattu Project, Inc., Forest Hills, N. Y.
Application March 22, 1950, Serial No. 151,147
10 Claims. (Cl. 114—61)



1. A boat hull comprising a pair of laterally spaced floats and a continuous bridge structure extending between the upper portions of said floats, said floats and said bridge structure shaped and arranged so as to provide below the operating waterline of said hull two discrete hull portions, and above the operating waterline forming a longitudinally extending tunnel throughout a major portion of the length of said floats, the top of said tunnel being formed by the bottom wall of said bridge structure and having a generally smooth surface which is substantially parallel to the operating waterline for a distance from its after end in the order of magnitude of two thirds of its length and with its remaining portion forward expanded upwardly and forwardly to a cross-sectional area at least twice that of its said after portion, the longitudinal elements of the sides of said tunnel, formed by the inner walls of said floats, being substantially parallel to each other throughout a major portion of their length, whereby said tunnel has substantially uniform cross-sectional area throughout a major portion of its length and a portion opening to at least double such cross-sectional area at its forward end.

2,666,407
STEERING MECHANISM FOR OUTBOARD MOTORS
Jim P. Wilkirson, Waco, Tex.
Application May 10, 1951, Serial No. 225,625
8 Claims. (Cl. 114—144)



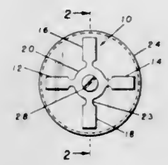
1. In combination with a steerable outboard motor and propeller assembly adapted to be mounted on the stern of a small boat, a support adapted to be removably fixed upon the rear end of the boat, a seat member movably supported on said support so as to travel laterally of the boat when moved by muscular force of an operator seated thereon, and mechanical connections including flexible cable means connecting the seat member and the steerable outboard motor assembly, and cable-guiding means, said cable means and cable-guiding means being constructed and arranged so that the seated operator by moving the seat member laterally by muscular force may steer the boat through turning of the outboard motor and propeller assembly.

2,666,408
SIGNALING DEVICE
George H. Riviere, New Iberia, La.
Application June 5, 1951, Serial No. 229,988
3 Claims. (Cl. 116—67)



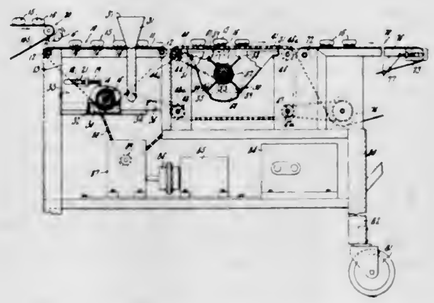
1. In a signaling device for warning a motor vehicle operator to remove the ignition key upon his leaving the operator's seat, in combination, a signaling device having two relatively movable members formed to slide upon each other to define a chamber of varying volume and to be separated when relatively moved through a predetermined distance in opposite directions, one of said movable members having an aperture through which a current of air may pass into or out of said chamber when said members are moved relatively to each other and having a sound-creating device associated with said aperture which makes an audible signal when said members are relatively moved in opposite directions to effect their separation, a first flexible connecting element having an end fixed to one of said movable members and having its other end fixed to an ignition key attachment means, and a second flexible connecting element having an end fixed to said other movable member and having its other end fixed to a clothing attachment means.

2,666,409
SHOCK INDICATING DEVICE
Ernest M. Kane, Oxnard, Calif.
Application May 7, 1952, Serial No. 286,591
11 Claims. (Cl. 116—114)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A shock indicating device comprising a shock-sensitive element having a plurality of radial frangible extensions arranged along more than one geometrical axis.

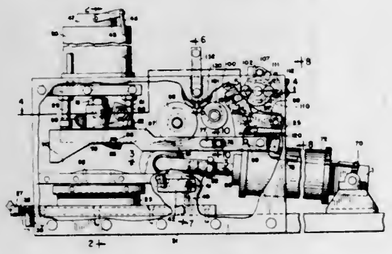
2,666,410
MACHINE FOR APPLYING SHREDDED MATERIAL TO BAKERY PRODUCTS
Bernard S. Budny, New York, N. Y., assignor to Automatic Roll Machine Company, Inc., New York, N. Y., a corporation of New York
Application January 26, 1948, Serial No. 4,223
2 Claims. (Cl. 118—24)



1. An apparatus for applying edible comminuted material to the wetted surface of bakery products comprising a frame, a foraminous conveyor mounted on the frame including spaced conveyor elements providing openings therebetween for receiving the products with the wetted surface disposed downwardly, driving means for the conveyor mounted on the frame, a container for comminuted edible material mounted on the frame beneath the product carrying run of the conveyor; said container having an outgoing

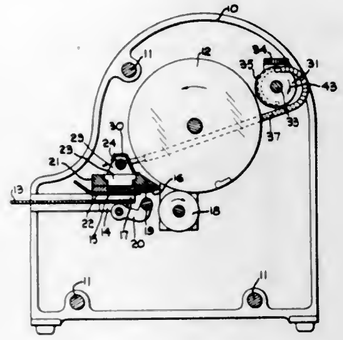
curved side wall extending from the bottom thereof and a side wall opposite the outgoing side wall sloped downwardly toward the bottom thereof, a paddle rotatably mounted in said container on an axis parallel to such conveyor run and normal to the direction of conveyor travel, said paddle being in operative relation to wall portions of said container for moving batches of the comminuted material upwardly toward such conveyor and between the openings therein into engagement with the wetted surfaces of the products; and a driving connection between said paddle and said driving means.

2,666,411
APPARATUS FOR COATING CUP-SHAPED ARTICLES
Edwin K. Williams, Indianapolis, Ind., and Ben L. Wright, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 12, 1951, Serial No. 220,595
3 Claims. (Cl. 118—215)



1. A coating apparatus, which comprises a housing having a trackway therein, a cylinder mounted in the housing extending generally transversely of the trackway, a piston operable by the cylinder, a stamp pad carried by the piston and movable thereby toward and away from the trackway, a drawer slidable along the trackway into and out of the housing, a valve for controlling the operation of the piston and the cylinder, lost-motion means carried by the drawer for actuating the valve to cause the piston to move the pad into engagement with an article carried by the drawer and to move the pad out of engagement with the article, a series of inking rolls, a pressing roll, a second cylinder mounted pivotally, a second piston carrying the pressing roll and operable by the second cylinder, a second valve for controlling the second cylinder, a pull rod, means operable by the pad for actuating the pull rod as the pad is moved away from an article to actuate the valve to cause the second piston to move the pressing roll out of engagement with the inking rolls and across the pad in compressive engagement therewith, means carried by the pressing roll for actuating the pull rod to reverse the second valve and to retract the pressing roll from the pad back into engagement with the inking roll, a fountain roll, a transfer roll movable between a position engaging the fountain roll and a position engaging one of the inking rolls, pawl and ratchet means for rotating the ink roll, a fountain containing a supply of ink in engagement with the fountain roll, means for sequentially moving the transfer roll out of engagement with the inking rolls and into engagement with the fountain roll and for turning the fountain roll through the pawl and ratchet means through a predetermined angle to apply a predetermined stripe of ink to the transfer roll, and means for moving the transfer roll out of engagement with the fountain roll and into engagement with one of the inking rolls.

2,666,412
MOISTENING MEANS FOR DUPLICATING MACHINES
Ronald Max Ford, Olton, Birmingham, England
Application March 18, 1952, Serial No. 277,174
Claims priority, application Great Britain March 21, 1951
3 Claims. (Cl. 118—267)

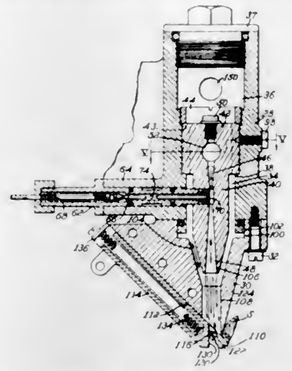


1. In a duplicating machine of the kind specified, means for moistening copy sheets, comprising a moistening member disposed adjacent to the in-feed path of the copy sheets, a liquid distribution device arranged in operative relation with said moistening member, a tank for containing moistening liquid, said tank being pivotally mounted in the machine about an approximately horizontal axis above the level of said distribution device, an outlet in said tank disposed above the normal liquid level thereof, a pipe system connecting said outlet to said device, means operatively connected with said tank for moving same from an inoperative position in which said outlet is disposed above said level to an operative position on which said outlet is disposed below said level, and, an air inlet duct on said tank having one end communicating with the interior of the tank below said liquid level in the inoperative position of the tank and above said liquid level in the operative position of the tank said duct being open to the atmosphere at its other end and having an intermediate portion of which part at least is always disposed above said liquid level, so as to drain any liquid back into the tank when moving from its inoperative to its operative positions.

2,666,413
SPRAYING APPARATUS FOR SHOE SOLE MARGINS
Mieth Maeser, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 3, 1951, Serial No. 204,137
7 Claims. (Cl. 118—301)

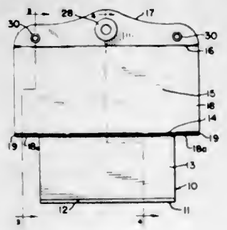
1. In a spraying apparatus, a standard, a spray nozzle thereon pointed down, a casing surrounding said spray nozzle and provided with an outlet opening in alinement therewith, means outside the opening for guiding a shoe with its sole extension beneath said outlet opening including a movable guard contacting the bottom

corner of a sole extension to protect the bottom of the shoe, and means connected to said casing



above said nozzle for producing suction in said casing to draw back surplus spray.

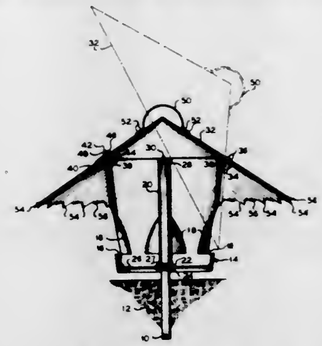
2,666,414
COLLAPSIBLE BIRDHOUSE
Ned Burr, Homewood, and Fred Drueck, Jr., Chicago, Ill., assignors to Chicago Cardboard Company, a corporation of Illinois
Application April 13, 1951, Serial No. 220,854
10 Claims. (Cl. 119—23)



1. A collapsible device of the character described, comprising: a body member of sheet material, said body member having a floor panel, a pair of wall panels, and a pair of roof panels all of which are hingedly connected together; means securing together the longitudinal end portions of said body member; a pair of side panels each of which is hinged along one of its margins to one of the lateral margins of said body member, each said side panel being swingable between a collapsed position and an assembled position perpendicular to each of the panels of said body member with a margin abutting a surface of each of such panels, and one of said side panels being provided with an opening; and a rigid projecting tab on a margin of each side panel to engage a slot in said body member to retain the device in assembled position.

2,666,415
FEEDING DEVICE FOR ANIMALS SUCH AS QUAIL
Charles H. Scruggs, Tampa, Fla.
Application May 25, 1951, Serial No. 228,144
10 Claims. (Cl. 119—52)

1. A feeding device comprising a support adapted to be firmly implanted in the ground and extend upwardly therefrom, a receptacle having an open top and a central opening in the bottom wall thereof, and a tubular member extending upwardly from said opening, a transverse member extending across the upper portion of said tubular member and engaging the opposite upper edges of said receptacle, said support extending within said tubular member and engaging said transverse member for rotatably mounting said receptacle, said receptacle having a plurality of feed openings formed in the lower portion thereof with inwardly extending lips thereover, a conical hood pivotally connected to an upper edge portion of said receptacle and having an arcuate handle secured thereto across



the apex thereof, a hood latch secured to the upper edge of said receptacle diametrically opposite to said pivotal connection, said hood having an opening for receiving said hood latch, and a latch pin extending through said hood latch exteriorly of said hood, said hood having an outer portion extending a substantial distance downwardly and outwardly to protect said feed openings and a plurality of prongs integrally formed along the peripheral edge thereof with alternate prongs being bent upwardly and downwardly.

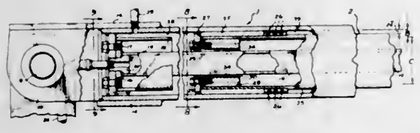
2,666,416
WRITING INSTRUMENT
Ernst W. Rickmeyer, Prospect Heights, Ill., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application September 11, 1948, Serial No. 48,837
3 Claims. (Cl. 120—51)



1. In a writing instrument of the type having a casing with a vent opening in its rear portion, and an ink reservoir in said casing vented through said opening, the combination of a hollow, shell-like writing element formed of porous

sintered metal the pores of which provide interconnected capillary ink feed spaces, said element being stationarily mounted in the forward end of the casing, and defining a chamber communicating with the atmosphere solely through said pores and through said reservoir, and ink feed means stationarily mounted in the forward end of said casing in constant engagement with the writing element, said ink feed means defining a first passage of substantially greater cross-sectional area than said pores extending from the reservoir to the interior of said writing element and a plurality of other passages of capillary size and of smaller size than said first passage connecting the latter with the pores of said writing element, said other passages communicating with said first passage throughout a substantial portion of the latter and with the pores of said writing element throughout a substantial area, said casing having a portion surrounding said writing element, except the writing tip thereof, and spaced from said element a distance providing a substantially uniform capillary space communicating forwardly with atmosphere for receiving and storing ink flowing from the reservoir in excess of that required for writing.

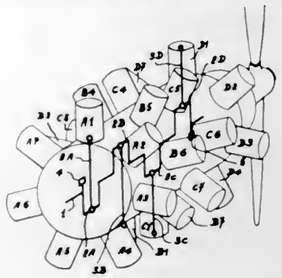
2,666,417
HYDRAULIC TELESCOPIC BOOM
Chester A. Harsch, Portland, Oreg.
Application October 17, 1950, Serial No. 190,479
8 Claims. (Cl. 121—46)



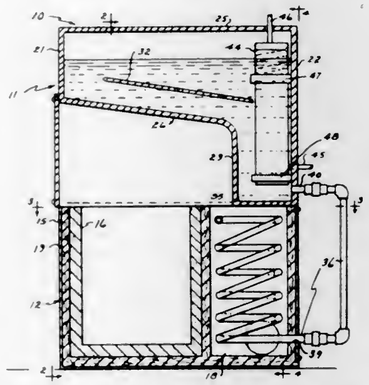
1. A telescopic boom, comprising first and second tubular members having first and second hollow bores, respectively, said members being telescopically arranged with the first member mounted on a base, an enlarged annular skirt means carried about the periphery of said second member in slidable contact with said first hollow bore to provide an annular operating cylinder intermediate the walls of said members, an elongated stem secured centrally to one end of said first member and extending axially of both of said hollow bores, said stem terminating in a circular fluid seal head having wiping contact with said second hollow bore, an elongated annular guide member fixed to said second member within said second hollow bore and concentric with said annular skirt, said guide member being pierced by an axial guide eye in which said stem slidably is mounted, and a plurality of elongated apertures extending through said guide member parallel the axes of said tubular members and communicating at the respective ends thereof with said first and second bores.

2,666,418
MEANS FOR BALANCING PISTON ENGINES
Henri L. Garnier and Raymond H. Marchal, Paris, France, assignors to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Paris, France, a company of France
Application February 1, 1949, Serial No. 73,914
Claims priority, application France February 10, 1948
1 Claim. (Cl. 121—120)

In a four row radial engine having the same odd number of cylinders and pistons regularly distributed in each row, the axes of the cylinders of the first and fourth rows being in parallel relationship, the axes of the cylinders of the second and third rows being also in parallel relationship but in staggered arrangement relatively to the axes of the cylinders of the first and fourth rows, a crankshaft having four crank pins, one for each of said rows, said crank pins lying in a common plane and successively angularly spaced by 180°, an articulated connecting rod assembly including one master rod and auxiliary rods connecting the cylinders of each row to the corresponding crank pin, the four cylinders associated with the master rods having their axes lying in a common axial plane, the two innermost, adjacent master rod cylinders lying on the same side of the crankshaft and the two outermost master rod cylinders lying on the opposite side of the crankshaft, and counterweights arranged in opposition on said crankshaft in the axial plane containing said crank pins, said counterweights being adapted to compensate the inertia forces of the first order.

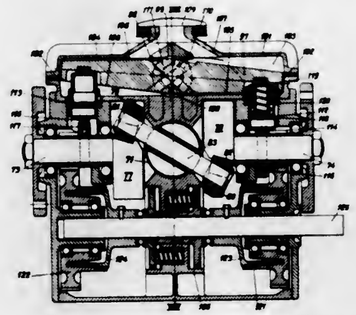


2,666,419
BOILER
Leonard A. Schultz, Morganville, N. J.
Application March 31, 1950, Serial No. 153,017
4 Claims. (Cl. 122—135)



1. A domestic boiler furnace of three units, a fire box and down draft flue compartment as a base and first unit, a combustion chamber enclosed on three sides and top by a single primary heat absorbing water jacket which forms a second superposed unit and a secondary heat absorbing coil connected to the water jacket and extending into a down draft flue zone of the fire box as the third unit, said fire box being provided with an opening for a burner, said down draft flue zone being provided with an opening adjacent to the bottom edge thereof for a smoke flue, said combustion chamber being provided with a removable front wall, and extending beyond said fire box and over said down draft flue zone.

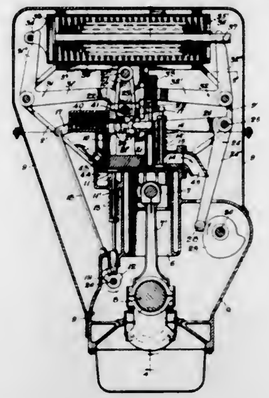
2,666,420
DEVICE HAVING SLIDABLE AND ROTARY PARTS
Mogens Roesdahl Groth Teisen, Copenhagen, Denmark, assignor to Henning Nielsen and Borge Nielsen, both of New York, N. Y., as joint assignees
Application December 16, 1949, Serial No. 133,258
2 Claims. (Cl. 123—45)



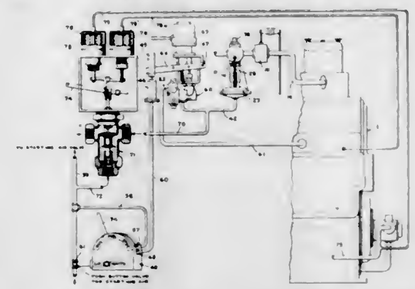
1. A two stroke internal combustion engine comprising a cylinder, reciprocating means including a piston slidable in said cylinder, a pair of rotors mounted on opposite sides of the axis of said piston for rotation about a common axis perpendicular thereto, connecting means extending transversely from said reciprocating means and engaged with said pair of rotors for the transfer of motion circumferentially thereof, said rotors comprising excentrically disposed physical masses of a size and location to create, in conjunction with the physical mass of said reciprocating and connecting means, complete dynamic balance as projected on a plane defined by the axis of said piston and the common axis of rotation of said rotors, and partial dynamic balance as projected on a plane perpendicular to the axis of said piston, and a charging pump for said cylinder including a pumping vane mounted for oscillation about an axis parallel to the axis of said piston and operatively coupled to said system of reciprocating means and rotors, said oscillating means being constructed to substantially eliminate residual dynamic unbalance as projected on a plane perpendicular to the axis of said piston.

2,666,421
INTERNAL-COMBUSTION ENGINE WITH VARIABLE COMBUSTION CHAMBER
Sidney H. Ring, Portland, Oreg.
Application August 7, 1950, Serial No. 178,135
2 Claims. (Cl. 123—78)

1. In an internal combustion engine of the character referred to, the combination with the power cylinder and piston, auxiliary cylinder and piston, spark plug and valve means therefor, of spring means for operating said auxiliary piston on the compression stroke in cooperation with said power piston to compress the fuel charge between said pistons as they come together, said operating means including a spring-loaded connection with said auxiliary piston operating constantly to move it toward said power piston, cam-operated means for intermittently raising it against the tension of said spring and for releasing said auxiliary piston to leave it free for a compression stroke under the force of said spring.



2,666,422
FUEL GAS VOLUME CONTROL FOR INTERNAL-COMBUSTION ENGINES
Clarence S. Kenworthy, Evanston, Ill., and William J. Blessing, Buffalo, N. Y.; said Blessing assignor to Worthington Corporation, Harrison, N. J., a corporation of Delaware
Application August 2, 1952, Serial No. 302,296
21 Claims. (Cl. 123—120)

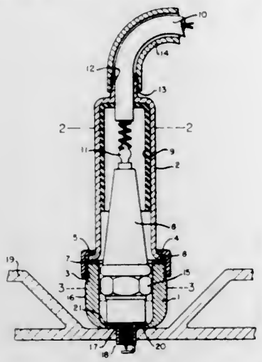


1. In a fuel gas volume control for internal combustion engines, the combination with an internal combustion engine including a combustion chamber, scavenging air supply means, and a line for supplying fuel gas to said combustion chamber, of a fuel gas volume control valve connected in the gas fuel supply line, means actuated by pressure of scavenging air for positively operating said fuel gas volume control valve, and means for bleeding off any residual fuel gas from the fuel gas supply line between the volume control valve and the engine when said volume control valve is closed.

2,666,423
RADIATION SHIELD FOR SPARK PLUGS
Guy D. Johnson, Jr., Red Bank, N. J., assignor to the United States of America as represented by the Secretary of the Army
Application February 8, 1951, Serial No. 210,044
1 Claim. (Cl. 123—169)
(Granted under Title 35, U. S. Code (1952), sec. 266)

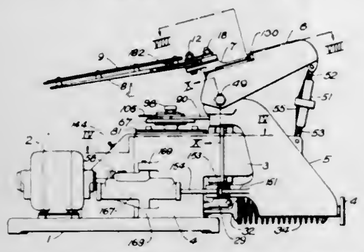
A cup shaped radiation shield member for a spark plug having a wrench receiving portion and

a threaded attaching nipple ending in a shoulder, said member having a thin bottom wall with a hole through which the nipple may be inserted with the shoulder against said wall, and a side wall having an inner surface in the form of a



wrench to be coupled to the wrench receiving portion of the spark plug and a corresponding outer surface in the form of a wrench receiving means, and means on said side wall for attaching a further shielding member to enclose the spark plug.

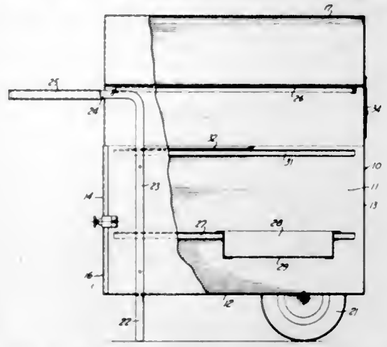
2,666,424
VARIABLE THROWING ANGLE TARGET TRAP
Harry Clark Foster, Alton, Ill., assignor to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware
Application September 16, 1950, Serial No. 185,296
18 Claims. (Cl. 124—9)



5. In a target trap, the combination of a base, a support thereon, a frame mounted for oscillation on said support, mechanism for oscillating said frame, a spring actuated target throwing arm mounted on said frame, mechanism for cocking said trap, a motor for operation of said trap, and means for transmitting power from said motor to said cocking and said oscillation mechanisms comprising a differential gear train with planetary gears whose axes rotate about a sun gear.

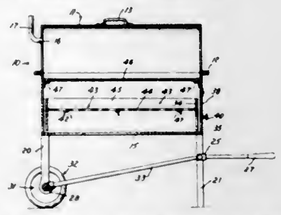
2,666,425
BARBECUE OVEN
Earl Grant Hastings, Jr., Tulsa, Okla.
Application July 25, 1950, Serial No. 175,682
1 Claim. (Cl. 126—25)

In a cooking appliance, a body having side, end and bottom closure walls to form a chest, a food supporting grill extending over the upper portion of the chest, a hood having a hinge connection to the body and movable to a closed position overlying the grill, guide means mounted in the lower portion of the chest, a charcoal burning fire box slidably disposed upon said guide means and adjustable horizontally between the end walls of the chest, said fire box having a length of the order of one-half the length of the chest between said end walls, additional horizontal guide means carried by the chest intermediate said first named guide means and said grill and spaced a substantial distance be-



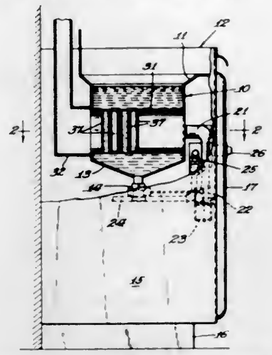
low the grill, a deflector plate slidably disposed upon said last named guide means, said deflector plate having a length substantially the same as the length of the fire box and being adjustable longitudinally of the chest between the end walls of the same to adjust heat applied to food placed upon the grill, and vent means in one end wall of the chest on a level intermediate the levels of the grill and the deflector plate.

2,666,426
PORTABLE BARBECUE AND RANGE
Maurice B. Pollard, Pampa, Tex.
Application August 4, 1950, Serial No. 177,680
1 Claim. (Cl. 126—25)



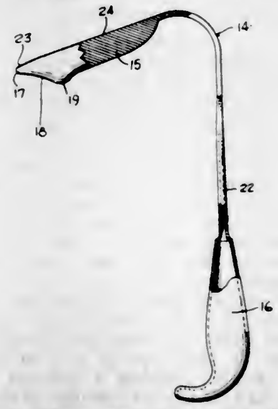
A portable barbecue and range comprising a barbecue bottom shell and a range top shell hinged to said bottom shell, means for supporting said top shell in open position relative to said bottom shell, leg supporting means removably attached to said bottom shell, said shells each comprising a half cylindrical member closed at both ends, said leg supporting means including wheel means and handle means, a burner grate, means within said bottom shell for removably supporting said burner grate in spaced relation thereto, said grate support means including a plurality of transverse angle irons welded within said bottom shell, a broiler grill comprising an expanded metal sheet, means for supporting said broiler grill within said bottom shell spaced substantially above said burner grate support means, said broiler grill supporting means comprising angle irons welded longitudinally within said bottom shell, a draft door at one end of said bottom shell, and a vent through the opposite end of said top shell, said vent tube including an elbow pipe slip-jointed thereon for angular adjustment.

2,666,427
DEEP FRIER
Richard T. Keating, Chicago, Ill.
Application June 10, 1950, Serial No. 167,318
1 Claim. (Cl. 126—391)



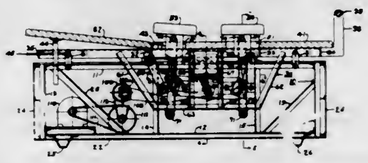
In a deep fryer having an open grease tank with upright walls at the opposite ends thereof and a burner at one end of said tank and flue at the other end thereof, the combination of at least one heat transfer tube extending horizontally through said tank from said burner to the flue, said tube being of oval shape, having its height greater than its width, with rounded top and bottom surfaces and relatively flat sides, and including a plurality of grease ducts therethrough, said ducts comprising a plurality of relatively small, vertical convection pipes having axes parallel with the major axis of a cross section of the tube and extending from the bottom wall to the top wall of the tube and open to the grease tank at the top and bottom to form grease passages through said heat transfer tube, said convection pipes being staggered relative to each other and grouped in an area of the tube adjacent the flue and remote from the burner of the fryer, said grouping being between the middle of said tube and said flue end, said convection pipes being connected only to said rounded top and bottom surfaces and being unconnected with the flat sides of said transfer tube.

2,666,428
SELF-RETAINING CUL-DE-SAC RETRACTOR
Robert J. Glenner, Chicago, Ill.
Application July 3, 1952, Serial No. 297,022
2 Claims. (Cl. 128—20)



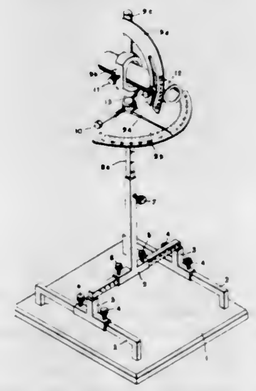
2. A dual placement retractor for vaginal hysterectomy comprising, an integral instrument having a shank portion adapted to be pendulously supported in a vertical position, a bulbous weighted blade portion disposed at oblique angularity with said shank portion, said blade and shank portions being connected by a curved flat neck portion, a palm-fitting handle carried at the lower extremity of said shank portion having a greater volume dimension than said bulbous weighted blade portion but having a hollow interior cavity so as to afford a lesser weight resolution than that of said blade portion, whereby retention of the blade portion during both preincision and post-incision placement in respect to the vaginal mucosa is thereby gravitationally resolved for overcoming sphincteral ejection.

2,666,429
MACHINE FOR THE CORRECTION OF POSTURE AND NORMALIZATION OF WEIGHT
William R. Alexander, Owen E. Williams, Harold H. Dawson, and Howard K. Bentz, Columbus, Ohio, assignors, by mesne assignments, to Lawrence L. Mack, Stamford, Conn.
Application March 6, 1950, Serial No. 147,812
16 Claims. (Cl. 128—33)



2. A body posture correcting machine comprising a main frame; a body supporting cradle positioned over and movable relative to the main frame; a body contacting pad member secured to and supported by said cradle and having a pivotal mounting providing for oscillating movement of the pad member relative to said cradle; and means for driving the pad member.

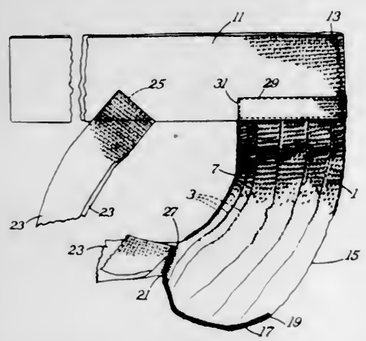
2,666,430
HIP NAIL AIMING AND GUIDING DEVICE
Humberto Altamirano Gispert, Havana, Cuba
Application April 21, 1950, Serial No. 157,310
Claims priority, application Cuba May 31, 1949
3 Claims. (Cl. 128—83)



1. Hip nail aiming and guiding apparatus consisting of a base with one of its axes in a front

to back direction and the other running crosswise from right to left, two graduated bars extending from front to back and serving as supports for a graduated cross bar capable of moving in a front to back direction on said first two bars and of being fixed at the desired position by suitable holding means; said cross bar supporting a member that includes a vertical portion, said member being movable along said cross bar and capable of being held at the desired position by suitable holding means, the vertical portion of said member adapted to be a support for a device that includes a cross arm which, with the aid of radiographic examinations permits the determination of the positions of the bones with respect to the three planes of the apparatus and susceptible of substitution by a device which includes a guiding tube the universal center of which, as well as a horizontal and a vertical angle, may be set by the various graduated parts of the apparatus in accordance with what has been predetermined by means of the cross arm and radiographic examinations to guide the fixing means through the bones; both the cross arm and guiding tube being supported by the vertical member on which they are vertically movable and capable of being fixed at the desired position by suitable means.

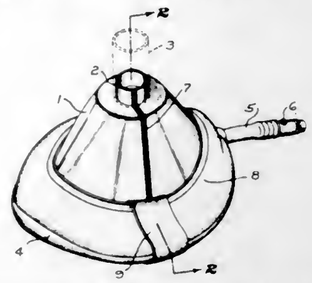
2,666,431
ATHLETIC SUPPORTER
John H. Weatherby, Natick, Mass., assignor to Weatherby Bros., Natick, Mass., a copartnership
Application June 19, 1952, Serial No. 294,343
5 Claims. (Cl. 128—158)



1. An athletic supporter having in combination a waistband, leg straps, and a pouch of knitted fabric, such fabric being rendered elastic by the inclusion of rubber elements, the latter contracting the fabric to a greater extent at the lateral edges of the pouch than at intermediate portions of the width thereof.

2,666,432
MASK FOR ADMINISTERING ANESTHESIAS
Philip L. Stanton, La Canada, Calif., assignor to E & J Manufacturing Co., Burbank, Calif., a corporation of California
Application December 17, 1952, Serial No. 326,441
4 Claims. (Cl. 128—205)

1. In a breathing mask, a plastic base having means to connect a flexible conduit from an anesthetic machine, an inflatable face-contacting cushion surrounding one end of said base, a metallic stripe positioned on the exterior of said base extending from said connecting means and contacting said flexible conduit to said cushion,



and a conductive strap around said cushion and contacting said stripe.

2,666,433
SYRINGE
Robert W. Ogle, Pasadena, Calif.
Application January 15, 1951, Serial No. 205,999
7 Claims. (Cl. 128—216)



1. A syringe comprising: a generally cylindrically shaped tube formed of polyethylene plastic and having thin walls adapted to yield under normal pinching pressure between a user's thumb and finger; said tube having a closed end and an open end; a flange on said tube adjacent said open end; a plug adapted to fit within and close said open end; the inner end of said plug being tapered on two sides to form an upper end having a truncated V-shaped cross section; said plug, when said plug is in place, extending into said tube with said tapered sides spaced from the inner wall of said tube; and a hollow needle extending through said plug and outwardly therefrom.

2,666,434
DISPOSABLE SYRINGE
Robert W. Ogle, Pasadena, Calif.
Application November 17, 1950, Serial No. 196,198
3 Claims. (Cl. 128—218)

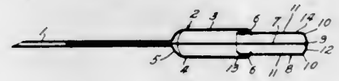
1. A syringe comprising: a hollow body member provided with a hub; a plunger normally received within said body member; a hollow needle extending from the end of said body member and said hub and communicating with the interior of said body member; a vial; and a hollow plug for closing said vial; said plug being normally disposed upon said hub and surrounding said needle having walls forming an elongated cavity having a length substantially equal to but slightly less than the combined length of the free portion of said needle and of said hub; said body member having a portion normally received in said elongated opening in said hollow plug; said vial being disposed upon the plug at the opposite end of said body from said plunger;

said body member in one position being adapted to be depressed further into said hollow plug



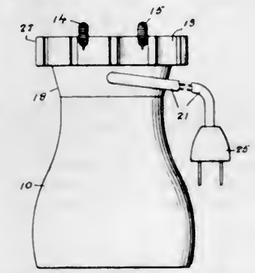
to cause said needle to pierce a wall of said plug and communicate with the interior of said vial.

2,666,435
SURGICAL INJECTION DEVICE
Karl Junkmann, Berlin, and Heinz Röhrig, Berlin-Kopenick, Germany, assignors to Schering A. G., Berlin, Germany, a corporation of Germany
Application December 19, 1950, Serial No. 201,546
5 Claims. (Cl. 128—218)



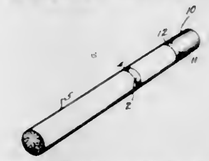
1. Apparatus for injecting a small, accurate and sterile quantity of a medical preparation, intramuscularly or subcutaneously, comprising a hollow needle, a plunger, said plunger being adapted to slide in said needle, a pair of telescoping cooperating members, one of said members carrying the needle and the other member carrying the plunger, the plunger-carrying member being adapted to slide with respect to the needle-carrying member and means to relatively guide said parts during such sliding movement.

2,666,436
ULTRAVIOLET RAY APPLICATOR
Augustine Franklin Pesce, Philadelphia, Pa.
Application August 13, 1951, Serial No. 241,633
3 Claims. (Cl. 128—396)



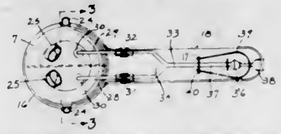
1. In an ultra-violet ray applicator, the combination which comprises a substantially cylindrical shield having a frustro conical shaped section in the upper end and a ring with a threaded outer surface extended from said frustro conical shaped section, an insulating base having a light bulb socket therein and having a frustro conical shaped outer surface positioned in the frustro conical shaped section of the shield, and a cap having finger receiving recesses in the outer surface threaded on the said ring extended from the frustro conical shaped section of the shield.

2,666,437
CIGARETTE EXTINGUISHER
Alphonse Lattof, Mobile, Ala.
Application June 10, 1950, Serial No. 167,369
3 Claims. (Cl. 131—4)



1. In a cigarette comprising an elongated tube of inflammable material and a filling of tobacco within said tube, means for extinguishing said cigarette when a predetermined length thereof has been consumed, said means comprising a band encircling said tube and adapted to be moved longitudinally to a selected position thereon, and a thermally liquifiable coating of low melting point material carried by the band on the side thereof adjacent the tube.

2,666,438
APPARATUS FOR CLEANING AND CURING SMOKING PIPES
Buddie Lee Pira and Lucien V. Gadal, Santa Ana, Calif.
Application November 15, 1948, Serial No. 60,082
1 Claim. (Cl. 131—244)

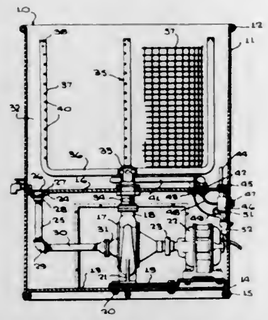


An apparatus for cleaning and curing a tobacco smoking pipe comprising: a platform having an electric heating unit therein; a container having a bottom provided with an insulating material under substantially one-half of the bottom thereof; a partition within said container defining within the container two chambers, one of said chambers having at its bottom said insulating material; the upper end of each of said chambers having a valved outlet connected thereto; a conduit connected to each of said outlets, said conduits having ends merging at an acute angle; another conduit extending from the point of mergence of said first-mentioned conduits and provided with a nozzle at its free end adapted to receive the bowl of a smoking pipe; and means for holding the bowl in sealed relation with said nozzle; whereby the vapors of two liquids having differing boiling points may be selectively introduced into said pipe in a variety of mixtures by aspiration of one vapor by the other, said vapors being generated in said chambers.

2,666,439
SPRAY TYPE WASHING MACHINE
Lewis Dwight Bechtol, Burket, Ind.
Application March 11, 1952, Serial No. 275,963
1 Claim. (Cl. 134—57)

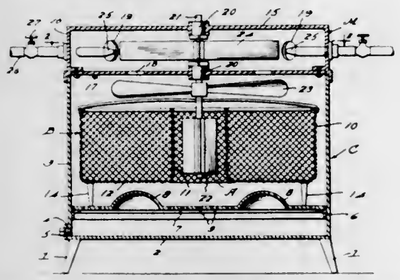
A spray type washing machine comprising a shell adapted to be disposed in upright position

and having an annular side wall and an open upper end, a partition wall in said shell disposed substantially perpendicular to the longitudinal center line of the shell and marginally joined to said side wall intermediate the height of the latter, said partition wall and the portion of said side wall above said partition wall constituting a tank, a motor driven pump disposed in said shell below said partition wall, a pipe secured at one end to said partition wall and extending through the latter and connected at its other end to the inlet of said pump, a header extending through said partition wall substantially centrally thereof and having its upper end closed and its lower end connected to the outlet of said pump, and spray pipes of right angular shape connected each at one end to said header and



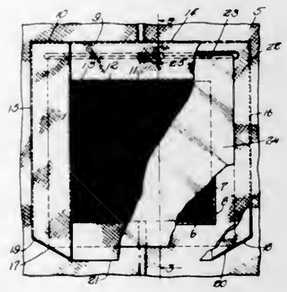
having portions radiating from said header toward said side wall at substantially equal angular intervals and portions upstanding along the inner side of said side wall, said spray pipes having their ends remote from said header closed and having perforations spaced apart longitudinally thereof for directing liquid spray upwardly from said partition wall and inwardly from said side wall, a heater disposed in said tank adjacent said partition wall, a thermostat extending through said partition wall into said tank, and a switch actuated by said thermostat and controlling said heater to maintain liquid in said tank substantially at a predetermined temperature, said side wall being of polygonal shape and said partition wall also being of polygonal shape and closely fitting the interior of said side wall.

2,666,440
CLEANING APPARATUS
Francis N. Collins, Washington, D. C.
Application October 19, 1950, Serial No. 190,896
2 Claims. (Cl. 134—188)



1. In a cleaning apparatus, a cylindrical liquid receptacle having an open top, a flat perforated closure for the open top, an annular reticulated container supported in centered relation within said receptacle, a cylindrical cover secured in spaced overlying relation on said closure, bearings mounted in the centers of the top walls of the closure and said cover, a shaft depending through said bearings and extending downwardly within the open center of said container, blades mounted on that portion of said shaft within the said open center for circulating the liquid radially within said container, other blades mounted on said shaft immediately below said closure for exhausting fumes from above the level of the liquid out through the perforations in the closure, still other blades mounted on said shaft between the closure and said cover, openings in the side wall of said cover, and means for imparting rotary motion to said shaft, said fumes being exhausted outwardly of the said last named openings to atmosphere by the action of the last named blades.

2,666,441
TENT WINDOW
Frank M. Powers, River Forest, Ill., assignor to Powers & Company, a copartnership
Application September 24, 1952, Serial No. 311,183
6 Claims. (Cl. 135—14)



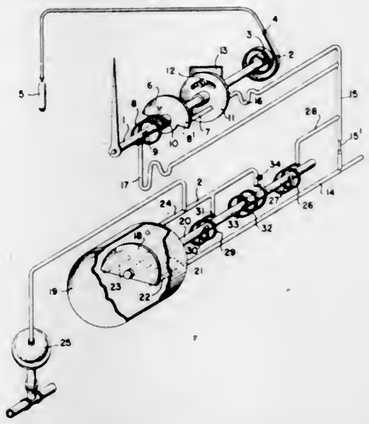
1. In combination with a tent wall having an opening covered with a sheet of netting and a transverse slot above said opening which extends beyond the lateral margins thereof, a cover member which has an opening in register with that in the tent wall secured to the outside of the tent wall to provide a pocket which overlies said opening and extends beyond the opening on all sides, said pocket being accessible through said slot and having part of its lower margin detached from the tent wall, and a loose sheet of flexible, transparent material held in said pocket and adapted to be removed through the slot.

2,666,442
FLEXIBLE UMBRELLA RIB
Thelma Ione Fortner, Newark, N. J., assignor to Staten Frame Manufacturing Company, Inc., New York, N. Y., a corporation of New York
Application April 4, 1950, Serial No. 153,975
3 Claims. (Cl. 135—31)



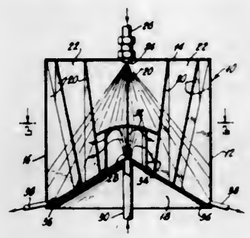
1. An improved umbrella frame element formed of a strip of sheet metal which has a configuration in cross-section comprising two substantially circular portions connected by a straight portion.

2,666,443
MULTIPLE STAGE FLUID RELAY
Donald Preston Eckman, Ithaca, N. Y., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 11, 1947, Serial No. 773,397
15 Claims. (Cl. 137—84)



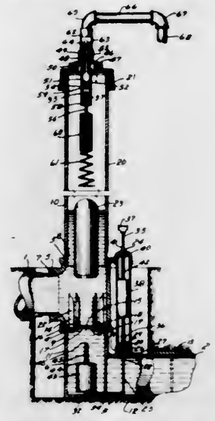
1. Air control apparatus comprising a bleed valve unit including nozzle and baffle elements relatively adjustable about an axis to effect a change in the bleed valve nozzle pressure on a change in the value of a control quantity, a pilot valve mechanism including an element angularly adjustable about an axis to vary a control pressure, and a Bourdon tube element curved about said axis and through which the last mentioned element is angularly adjusted about said axis in response to changes in the bleed nozzle pressure.

2,666,444
FLUID DISTRIBUTOR
Bruce Andrew Graybeal, Conowingo, Md., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application March 26, 1949, Serial No. 83,629
4 Claims. (Cl. 137—118)



1. In a fluid distributor, a cylindrical container having a bottom wall and a peripheral wall, a nozzle mounted axially of said container above said bottom wall for discharging a conical spray, means connecting said nozzle to a fluid supply, sector defining partitions spaced around the peripheral wall of said container, outlets from said sectors, an inlet in said container connected to a source of gas under pressure, and a baffle overlying said inlet to prevent disruption of said spray by the inflowing gas.

2,666,445
DEVICE FOR CONTROLLING FLOW IN PIPE LINES
John T. Cronkhite, Tulsa, Okla.
Application July 28, 1950, Serial No. 176,414
9 Claims. (Cl. 137—198)

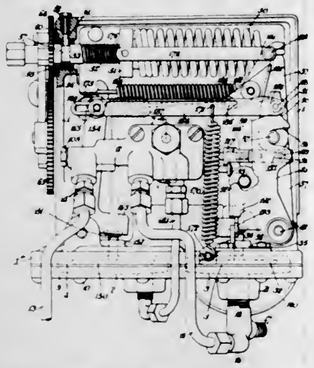


1. A control device of the character described including, a casing having an upper inlet and a lower outlet, means forming upper and lower valve seats within the casing at a point intermediate the inlet and outlet, a float valve in the casing on the inlet side and adapted to engage the seat on the inlet side in the absence of flow of liquid through the inlet, means for unseating the valve including a reciprocatory member extending into the casing at a point below said seats and having a laterally directed arm terminating in a finger coaxially of said seats and adapted to unseat the float valve upon reciprocation of said member in one direction, a buoyant check valve having a sliding support on said finger for engaging the seat on the outlet side responsive to back flow of liquid into the outlet, a stuffing box carried by the casing and forming a seal about the reciprocatory member, and a spring for moving the reciprocatory member in the opposite direction for retracting said finger.

2,666,446
FLUID DISPENSING APPARATUS FOR HIGH AND LOW PRESSURE RANGES
Joseph C. Woodford, Spring Lake, and David S. Willson, Muskegon Heights, Mich., assignors to John Wood Company, a corporation of Delaware
Application November 24, 1945, Serial No. 630,674
11 Claims. (Cl. 137—225)

10. A fluid dispensing apparatus for inflating a receiver to a predetermined pressure with surges of air under pressure, including an inlet conduit adapted for connection with a source of supply of air under pressure; an outlet conduit adapted for connection with a receiver; a motor diaphragm chamber and an inflator diaphragm chamber, each chamber containing pressure sensitive means including a reciprocatory diaphragm; conduit means through which air under pressure is supplied to said chambers; valve means controlling communication between said inlet conduit and said diaphragm chambers and outlet conduit; means operatively connecting said valve means with said pressure sensitive means; respective springs opposed to the fluid pressure on said motor diaphragm and said inflator diaphragm; auxiliary surge lengthening

means opposed to the fluid pressure on said motor diaphragm; and means operatively connecting said auxiliary surge lengthening means with said means for adjustably varying



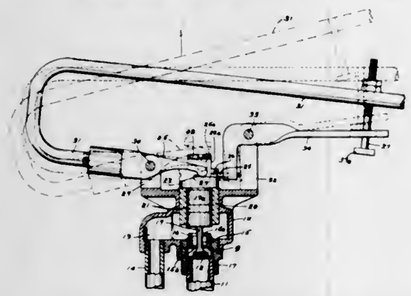
the tension of the spring opposed to said inflator diaphragm; whereby, the surges of air under pressure are increased in volume with an increase in the predetermined pressure setting of said apparatus.

2,666,447

SNAP ACTION BALL COCK

Henry J. Rand, Bratenahl, Ohio, assignor to Magic Seal, Inc., Bratenahl, Ohio, a corporation of Ohio

Application April 8, 1949, Serial No. 86,310
2 Claims. (Cl. 137—420)



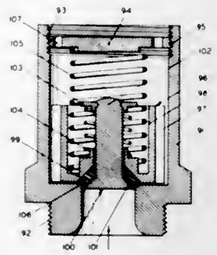
1. In a ball cock, a water inlet, a valve housing connected with said inlet and having an outlet, a cylindrical valve bore in said housing communicating between said inlet and outlet, a valve seat at the inlet end of said bore, a valve in said housing on the inlet side of said seat and closing in the direction of water flow, said valve being of resilient rubber-like material of truncated cone shape having an upper diameter slightly less than the diameter of said bore and having a lower diameter slightly greater than said bore, a stem connected with said valve and having a head containing a horizontal groove, a platform and a cap on said head spaced apart vertically, an actuator arm positioned between said platform and said cap, a float operatively connected with said arm to move the latter against said platform by downward movement of said float and to move said arm against said cap by upward movement of said float, a detent having operative engagement with said groove for holding said valve fully open, and an operative connection between said float and detent for releasing the latter from said engagement with said groove, said operative connection having a lost motion connection taken up only after said float has risen almost to valve-closing position.

2,666,448

SELF-SEALING RELIEF VALVE

Owen L. Garretson and Clarence O. Henneman, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application July 29, 1946, Serial No. 686,855
2 Claims. (Cl. 137—540)



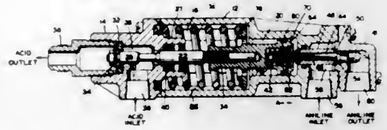
2. A pressure relief valve comprising, in combination, a valve seat, a valve head having a generally frusto-conical recess formed therein, a relatively strong spring for urging said head into engagement with said seat, an annular resilient gasket mounted in said frusto-conical recess, said gasket including a wall defining a cylindrical opening therein and a frusto-conical surface angularly related to said wall, a screw extending through said gasket, said screw having a head engaging a substantial portion of said frusto-conical surface throughout the entire circumference thereof and a shank engaging a substantial portion of said cylindrical wall of the gasket throughout the entire circumference thereof, the head of the screw being exposed at the high pressure end of the valve, the shank of the screw being exposed at the low pressure end of said valve, and a relatively weak spring for urging the head of said screw into engagement with said gasket.

2,666,449

VALVE MEANS FOR CONTROLLING TWO INDEPENDENT SOURCES OF PRESSURIZED FLUID

Walter D. Teague, Jr., Alpine, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application March 28, 1949, Serial No. 83,857
4 Claims. (Cl. 137—630.22)



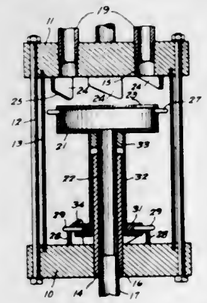
1. In a valve, the combination of a casing, a fluid inlet and outlet in one end of said casing, a second fluid inlet and outlet in the opposite end of said casing, a spring chamber between said inlets and outlets, a first spring within said chamber, cut outs in said casing connecting said spring chamber to atmosphere, a valve stem having a valve member at one end controlling flow from said first inlet to said first outlet, said first valve stem extending into said spring chamber and biased by said spring, a piston in said casing screw threadedly engaging the opposite end of said first valve stem, a spring chamber in the opposite end of said piston, a second valve stem colinear with said first valve stem and having a valve member adapted to control fluid flow from said second inlet to said second outlet, an adjustable shoulder on said second valve stem adapted to be engaged by said piston, a second spring in said piston spring chamber biasing said second valve stem to maintain said second valve member in closed position, fluid pressure communicating means from said second fluid inlet to said piston to actuate said piston against said first spring to unseat said first valve member and to engage said shoulder to unseat said second valve member, a constriction within said means to regulate the fluid flow therethrough, and a normally closed outlet, to relieve the pressure against said piston, whereby said first spring may restore said first and second valve members to closed position upon the opening of said normally closed outlet.

2,666,450

INDEXING VALVE

Earl E. Berry, Dayton, Ohio

Application March 21, 1950, Serial No. 150,890
7 Claims. (Cl. 137—633)



7. In a pressure fluid operated indexing valve, a housing including spaced apart inner and outer plates, said outer plate presenting a circular series of individual openings, a piston supported by said inner plate for extending and retracting motion toward and from said outer plate and for rotary motion relative thereto, said piston being extensible under the influence of pressure fluid supplied thereto and retractible in response to the shutting off of such pressure fluid, an outlet opening in said piston to be brought successively into registry with the individual openings of said series of openings by a step by step rotary indexing of said piston, a normally closed check valve in said outlet opening arranged to be opened by contact with said outer plate during extending motion of the piston, and cooperating cam portions on said housing and said piston imparting components of rotary motion to said piston during each extension and retraction thereof accomplishing in sum effect one full indexing step of the piston.

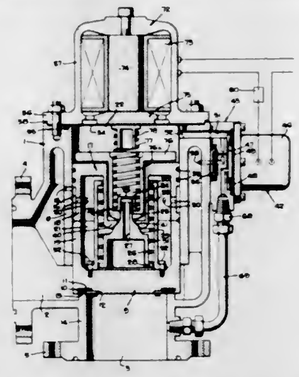
2,666,451

VALVE STRUCTURE FOR CONTROLLING HIGH-PRESSURE FLUIDS

William A. Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California

Application February 17, 1950, Serial No. 144,681
19 Claims. (Cl. 137—656)

12. In a valve structure to control a fluid medium: a body having an inlet passage and an outlet passage; a movable closure structure for interrupting the flow of the medium to the outlet passage; means utilizing the inlet pressure of the medium for urging the closure structure to closed position; an electromagnet having a movable armature; a resilient connection between the armature and the closure structure; said resilient connection having provisions for exerting a force to urge the closure to open position upon movement of the armature toward attracted position; and means operated by the fluid pressure of the medium for initiating movement of the armature toward attracted position.

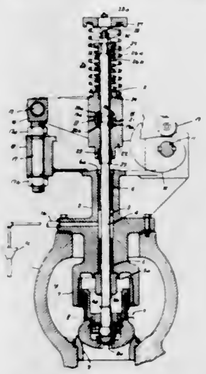


2,666,452

VALVE ACTUATING MECHANISM

Raymond Sheppard, Schenectady, and Peter G. Ipsen, Niskayuna, N. Y., assignors to General Electric Company, a corporation of New York

Application December 29, 1951, Serial No. 264,176
3 Claims. (Cl. 137—701)



1. Actuating mechanism for a stem member disposed for longitudinal sliding movement relative to a housing member comprising first and second spaced fixed abutment means defining the respective ends of the range of movement of the stem, a floating bushing member with an axial hole therethrough in which the stem member is slidably disposed and a transverse opening extending through the bushing normal to said axial hole, third and fourth abutment means on the stem at either side of the bushing and spaced apart a distance greater than the axial length of the bushing whereby the third and fourth abutments may define clearance spaces with either or both ends of the bushing, means

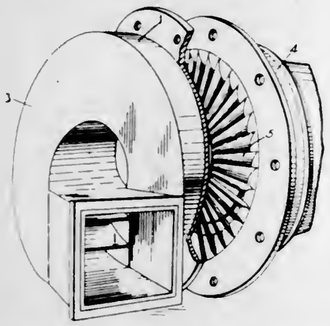
for positively positioning said bushing longitudinally relative to the stem comprising a cross-head member disposed in said transverse opening, the central portion of the cross-head having an opening therethrough in which the stem is disposed with substantial clearance between stem and cross-head, the respective projecting ends of the cross-head being journaled in an actuating lever having one end supported on a fulcrum fixed relative to the housing, means for positioning the lever to cause the cross-head to move the floating bushing longitudinally, fifth fixed abutment means spaced axially from the end of the floating bushing, a first coil spring disposed coaxially around the stem with one end engaging said fifth abutment and the other end engaging the adjacent end of the floating bushing, and a second coil spring coaxially disposed within the first spring with one end engaging the floating bushing and the other end engaging said fourth abutment on the stem, whereby movement of the floating bushing in one direction by the actuating lever transmits force to the stem through said second coil spring until further movement of the stem is prevented by said second abutment means, whereupon further movement of the actuating lever moves the floating bushing to compress said second spring until a clearance space is defined between the respective ends of the bushing and said third and fourth abutments.

2,666,453

GASEOUS FLUID FLOW SYSTEM

Ivor Macaulay Davidson and Alfred Denis Snowdon Carter, Farnborough, England, assignors to Power Jets (Research and Development) Limited, London, England, a British company

Application June 28, 1948, Serial No. 35,730
3 Claims. (Cl. 138—37)



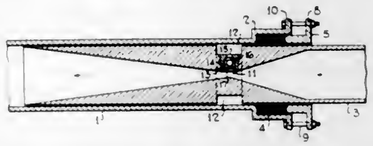
1. A gaseous fluid flow system including an outer circumferential wall and radially inward thereof and concentric therewith an inner circumferential wall defining with said outer wall an annular flow path for the gaseous fluid, and, for reducing the circumferential velocity component of fluid flowing axially through said annular flow path, a circumferential row of similarly shaped blades lying in a plane normal to the axis of the annular flow path, each blade of the row extending longitudinally between said inner and outer walls and being, in section in a transverse plane, of streamlined profile with an inlet angle large in relation to the outlet angle whereby the width of the passage between adjacent blades, measured in the section plane, increases substantially in the direction of flow, wherein said inner and outer walls converge in the radial direction to effect a progressive decrease in the radial height of said passage in the direction of flow, such decrease in height being proportionately greater than the corresponding increase in width of said passage whereby the flow area thereof is reduced between inlet and outlet and fluid is accelerated in passing therethrough.

2,666,454

EXPANSION JOINT

Robert P. Richmond, Baltimore, Md., assignor to Standard Oil Development Company, a corporation of Delaware

Application January 11, 1951, Serial No. 205,468
4 Claims. (Cl. 138—44)



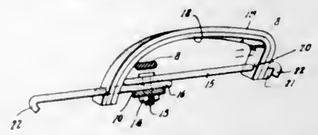
1. In an expansion joint, the combination comprising an outer pipe member having an inlet open end, a neck portion integral with said inlet open end of enlarged diameter with respect to said pipe, an annular shoulder interiorly of said neck at the juncture thereof with said pipe member, an inner pipe member having an outlet open end insertable through said neck to be received within the inlet end of said outer member in closely spaced, reciprocally telescopic relation to the inner wall of said member and in radially spaced relation to the inner wall of said neck, forming with said neck and shoulder an annular pocket opening outwardly through said neck around said inner pipe member, a seal between said inner pipe member and said neck, including packing in said pocket, and means for compressing and retaining said packing therein, a Venturi throat interiorly of said inner member disposed longitudinally thereof intermediate the outlet end of said member and the neck portion of said outer member, a conduit passageway opening inwardly from between said pipe members, through the wall of said inner member into said Venturi throat, and a check valve in said passageway closing the passageway against flow from said throat outwardly through said passageway.

2,666,455

PICKER CHECK STRAP

Victor Gravitt, Chickamauga, Ga., assignor to Page Belting Company, Concord, N. H., a corporation of New Hampshire

Application November 21, 1950, Serial No. 196,759
10 Claims. (Cl. 139—165)



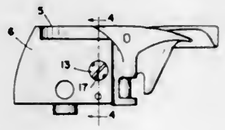
1. A check strap for looms comprising in combination a guide rod for the check strap, said guide rod having fastener-receiving means adjacent its center for attachment to the loom, the check strap being slidably connected to said rod at opposite sides of said fastener-receiving means, and said rod having its ends bent to form stops for the check strap.

2,666,456

YARN TENSIONING DEVICE FOR LOOM SHUTTLES

Joseph E. Blanchard, Millbury, Mass., assignor to Watson-Williams Manufacturing Company, Millbury, Mass., a corporation of Massachusetts

Application July 13, 1950, Serial No. 173,570
1 Claim. (Cl. 139—217)



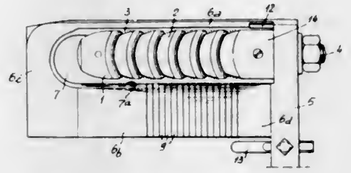
In a yarn tension adjusting device for loom shuttles comprising a yarn guide in the form of a block mounted at one end of the shuttle chamber and providing a yarn delivery channel, said block having a threaded opening in the side wall thereof with slots extending across the threads of said opening, a yarn tension plate freely supported within said block in line with said channel, an adjusting screw turnable within the side wall opening of said block, with a slot extending across the threads of said screw, and a spring interposed between the inner end of said screw and said tension plate, the improvement which consists in the provision of a locking member carried by and turnable with said screw, said locking member comprising a fixed portion extending transversely of the screw and a yieldable portion partially received in said screw slot, said yieldable portion having a free extremity receivable in one of the slots in the side wall opening of the block when said screw is turned to bring the slots on the screw and wall opening into register with each other, to maintain a given adjustment of said yarn tension plate, with turning of said screw in either direction of rotation from its locked position serving to withdraw said free extremity of the locking member from the engaged slot of the wall opening.

2,666,457

TEMPLE FOR WEAVING LOOMS

Raymond Dewas, Amiens, France

Application April 16, 1952, Serial No. 282,528
11 Claims. (Cl. 139—295)



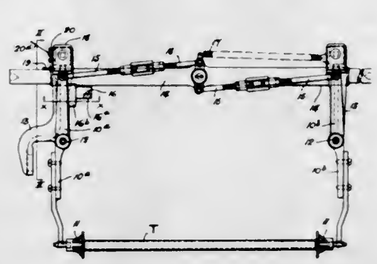
1. A temple for weaving looms of the trough and roller type, adapted to tension the fabric downwardly deflected, comprising an elongated plate; a support projecting at one end of said plate; a cylinder rotatably mounted in said support; said plate having a longitudinal aperture under the cylinder and extending therebeyond for forming a fore table and a table portion, said table portion on one side, having a surface the shape of which in longitudinal and transverse direction is adapted to receive said fabric; and a substantially low and narrow bar integral with said plate on the opposite side thereof.

2,666,458

SAFETY DEVICE FOR LOOMS FOR WEAVING TUFTED PILE FABRICS

Edward S. Butler, Chadderton, Oldham, and Arthur Sutcliffe, Werneth, Oldham, England, assignors to Platt Brothers and Company Limited, Oldham, England

Application March 16, 1950, Serial No. 150,094
Claims priority, application Great Britain March 19, 1949
3 Claims. (Cl. 139—336)



1. In spool Axminster carpet looms embodying an electromotor, a clutch, a starting handle, a brake, electric stop motion means embodying a low-voltage circuit, transferring mechanism for tube frames of the loom embodying a pair of transferring arms mounted on a transferring shaft, clasping means attached to the forward ends of said transferring arms and spring means for urging the forward ends of the transferring arms towards each other when there is not a tube frame in the clamping means, an electric stop motion means for the loom including a low voltage electric circuit having a pair of contact terminals, one of said transferring arms forming one of said contact terminals in the low-voltage electrical circuit of said electric stop motion means, the other contact terminal of which is carried on a bracket on the transferring shaft and comprises a metal plate, an insulation block interposed between said plate and said bracket, screws screwing through insulation bushes in said metal plate to secure the plate to the bracket and an adjustable screw terminal on said plate projecting into the path of movement of said one transferring arm forming one of said contact terminals, whereby when said transferring arm contacts with said screw terminal the low-voltage circuit is energized and the electric stop motion means is brought into action to stop the loom or to prevent the loom from being run when there is not a tube frame in the transferring arms.

2,666,459

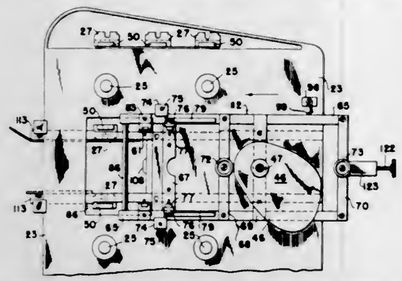
MACHINE FOR PRODUCING SPRING MATTRESSES

Joseph Gauci, New York, N. Y., and Paul J. Mueller, Baltimore, Md., assignors to Murray J. Rymland, Baltimore, Md.

Application June 29, 1948, Serial No. 35,954
2 Claims. (Cl. 140—92.8)

1. In an apparatus for making spring assemblies, the improvement in the activating means for moving the coils to the interlacing station consisting of a support member, a plurality of pads for holding the coils mounted on bars, and means for actuating said bars mounted on the support consisting of a carriage, a cam for reciprocating the carriage, a resilient pushing means mounted on the carriage, a resilient abutment for

holding the bars and pads at the interlacing station, and other means carried by the carriage



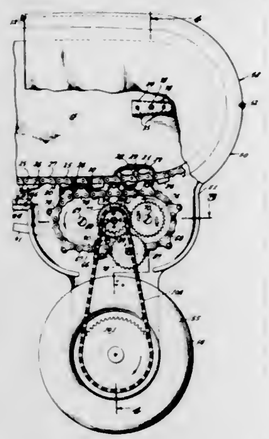
for releasing the abutment so that the bars may be pushed past the interlacing station.

2,666,460

ACCESSORY FOR POWER TRANSPORTATION OF CHAIN SAWS

Walter H. Drain, Hermosa Beach, Calif.

Application January 7, 1953, Serial No. 329,960
15 Claims. (Cl. 143—32)



1. Means for combination with a manually portable power-actuated chain saw for self-propelling transportation thereof, comprising: at least one ground wheel; means to support the chain saw on the ground wheel; means for engagement with the cutting chain of the saw to derive power therefrom; and means to operatively connect said power deriving means with said ground wheel for power rotation thereof.

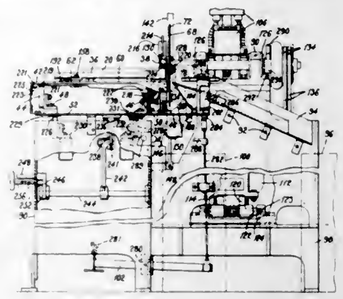
2,666,461

HEEL BLOCK SAWING MACHINE

Charles A. Johnson, Andover, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application January 3, 1949, Serial No. 68,841
6 Claims. (Cl. 143—52)

1. In a heel block sawing machine, a saw having a toothed cutting edge arranged in a plane, means for operating the saw, a carrier which is movable in a path arranged parallel to said plane and has a flat surface constructed and arranged to be engaged by one face of a stick, and an arm which is adjustably mounted upon the carrier and has a face constructed and arranged to be engaged by another face of the stick disposed at an angle to said one face to position the stick on said surface at a predetermined angle to the plane of the cutting edge of the saw, said face of the arm extending above said flat surface of the



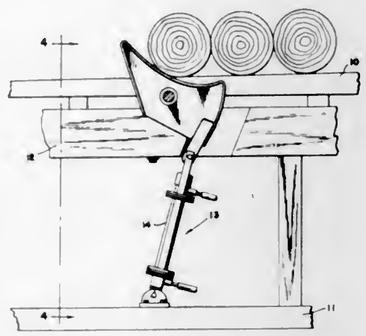
carrier and having a salient portion which is arranged generally parallel to said surface and is spaced a distance equal to approximately one-half the thickness of an average stick from said surface.

2,666,462

HYDRAULICALLY OPERATED LOG KICKER

Dow C. Richardson, Metropolis, Ill.

Application May 9, 1952, Serial No. 286,920
5 Claims. (Cl. 143—96)



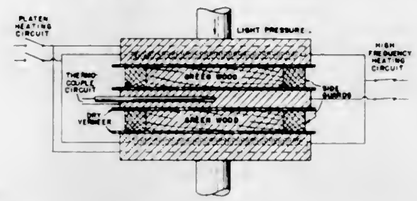
1. A log transfer apparatus for use with a sawmill having a log deck, a kicker arm pivotally mounted for movement about a horizontal axis relative to the log deck, a support member below the log deck, a cylinder mounted on the support member, the piston rod of the cylinder being pivotally connected to the arm, a source of hydraulic fluid, conduits extending between the source of fluid and the upper and lower ends of the cylinder, valve means interposed in the conduits, a control member for actuating the valve means to control the fluid flow to and from the cylinder, a stop element carried by the outer periphery of the cylinder in proximity to the upper end thereof, at least one rod connected to the piston rod at the point of pivot of the piston rod to the arm, the rod extending longitudinally of the piston rod in parallel relation to the piston rod, said stop element on the cylinder having an opening therein through which the said rod extends and a flange surrounding the cylinder below the said stop element anchored to the lower end of said rod so that movement of the piston rod simultaneously moves the rod and the flange whereby engagement of the flange with the stop element limits the upward extent of the piston rod.

2,666,463

METHOD OF DENSIFYING WOOD

Clark C. Heritage, Cloquet, Minn., assignor to Weyerhaeuser Timber Company, Longview, Wash., a corporation of Washington

Application February 21, 1949, Serial No. 77,675
8 Claims. (Cl. 144—309)



1. The method of treating green wood comprising rapidly heating the wood to reduce the moisture content to a predetermined amount in a range between 15% and the fiber saturation point and for plasticizing the native lignin in the presence of the remaining moisture, and immediately thereafter, before loss of a substantial amount of the heat applied to the wood for reducing the moisture content, applying pressure to compress the wood to a predetermined thickness dimension.

2,666,464

METHOD OF MAKING LASTS

Burdell D. Spencer, Oxon Hill, Md.

Application November 28, 1952, Serial No. 323,171
2 Claims. (Cl. 144—309)
(Granted under Title 35, U. S. Code (1952), sec. 266)



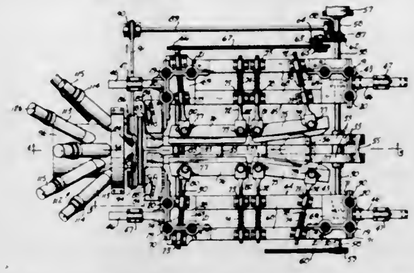
1. A method of making a master model shoe last, comprising drawing irregular cross sectional shapes of the desired shoe last at a plurality of longitudinally spaced points along the last with respect to a common longitudinal axis through the last, forming a plurality of separate relatively thin templets having peripheral shapes conforming to the drawn cross sectional shapes, assembling the templets in spaced relation corresponding to said longitudinally spaced points along the last and holding the templets against individual endwise and rotational movement, rotating the assembled templets about said common longitudinal axis as a unitary pattern in a copy lathe, simultaneously turning an oversized last block in the copying lathe while the follower element of the lathe is held successively in engagement with the peripheries of the separate templets and thereby forming peripheral grooves in said block, the bottoms of the grooves establishing the cross sectional shapes of the master model shoe last at longitudinally spaced points along the same corresponding to the spacing of said templets, and then removing the portions of the oversized last block between said grooves along an imaginary contour surface extending adjacent to the bottoms of the several grooves for completing the master model shoe last.

2,666,465

DEVICE FOR HUSKING COCONUTS

Arnold H. Beeken, Tacoma, Wash.

Application October 15, 1951, Serial No. 251,289
6 Claims. (Cl. 146—7)



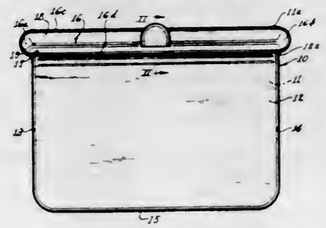
1. In a coconut husking device a conveyor; spaced apart and longitudinally positioned knives disposed in the path of coconuts on said conveyor and mounted for movement toward and away from other; resilient means urging said knives inwardly and into the husks of coconuts, said resilient means comprising spaced apart rods pivotally secured to each knife, one of said pivotal means comprising a pin and an elongated slot in which said pin can travel, sleeve means mounting said rods for reciprocating movement, and resilient means urging said rods and said knives toward each other; coconut holding means receiving a coconut from knives; and rotating cutting knives cutting husk away from the coconut hard shell while the coconut is held by said coconut holding means.

2,666,466

POUCH WITH SLIDERLESS FASTENER CLOSURE

Julius Sharat, New York, N. Y., assignor, by mesne assignments, to Emil F. Svec, New York, N. Y.

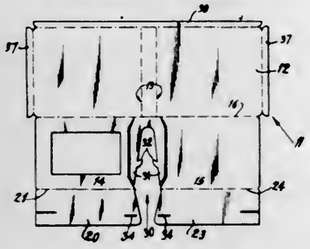
Application August 28, 1952, Serial No. 306,834
3 Claims. (Cl. 150—3)



1. A pouch comprising front and back sheet-like wall portions having mating edges united together to define a container and having corresponding free upper edges spaced from each other to define an opening into said container on the front side thereof, a first closure strip secured to the free upper edge of said back wall to extend the length thereof and downwardly therefrom, a second flat closure strip secured to the free upper edge of said front wall to extend the length thereof and upwardly therefrom to overlap said first closure strip, said closure strips having offset integral thickened reinforcements and said reinforcements having on confronting faces longitudinally extending grooves and ridges, each of said ridges having an enlarged head portion and a constricted neck portion and each of said grooves having a restricted opening and an

enlarged bottom portion, said groove in one of said reinforcements being aligned with and corresponding in cross-section to the ridge in the other of said reinforcements and vice versa, the corresponding ends of said reinforcements being mated and united integrally with each other and with said front and back wall portions, and an integral extension along the exposed face of the reinforcement of said second closure strip projecting upwardly therefrom and generally parallel to and spaced from said first closure strip, whereby said reinforcements can be separated to provide an opening into said container by grasping said extension and pulling the same away from said first closure strip.

2,666,467
ANCHOR MEANS FOR WALLET POCKETS
Louis Seamon, Brooklyn, N. Y.
Application February 3, 1951, Serial No. 209,242
5 Claims. (Cl. 150—38)



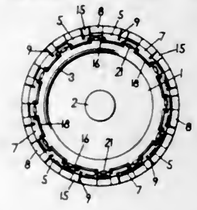
1. In a wallet having at least one anchored pocket, comprising a rear wall and a front wall, and a stay rearward of said front wall; an edge portion of said front wall being folded around said stay to provide an overlapped portion, anchor means integral with and extending from the bottom of said rear wall in interengagement with said overlapped portion of said front wall, thereby preventing said overlapped portion from lifting up from the rear of said stay, and preventing deformation of said pocket.

2,666,468
LOCK WASHER WITH THICK RIM AND METHOD OF MAKING SAME
Ouglјesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application July 22, 1949, Serial No. 106,253
6 Claims. (Cl. 151—35)



6. A lock washer comprising a single sheet metal centrally apertured blank including an annular body portion surrounding said aperture and positioned in a plane normal to the washer axis, a plurality of resilient prongs positioned along the outer margin of said body and flexed to present teeth projecting predetermined distances from opposite sides of the bounding planes of said washer body, and a grommet-like member carried by the inner margin of said washer body having a substantially cylindrical section intermediate opposed flanges of substantially equal widths, said flanges being less in axial dimension than the thickness of said annular body portion and also thinner than the radial thickness of the cylindrical section of said grommet-like member, said flanges adjacently embracing opposite sides of the annular body and extending in parallelism with said body, said flanges presenting rigid opposed abutment surfaces located in planes spaced axially from the aforesaid bounding planes a predetermined distance which is less than the height of said locking teeth so as to assure initial engagement of said teeth when clamped between a pair of work surfaces, the size and cross-sectional shape of said grommet-like member being such as to enable it to be formed from a marginal portion of the sheet metal stock defining the blank aperture which would otherwise represent scrap.

2,666,469
LAMELLAS FOR TRACTOR WHEELS
Benno Dasch, Quito, Ecuador, assignor of one-half to Transamerican Mercantile Corporation, New York, N. Y., a corporation of New York
Application December 26, 1950, Serial No. 202,701
2 Claims. (Cl. 152—183)



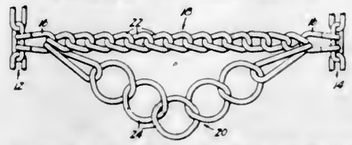
1. An attachment for a wheel tire, comprising a plurality of lamellas, means for connecting said lamellas in wide spaced positions distributed about the periphery of said tire, each of said lamellas having a concave surface fitting the peripheral surface of said tire and having outwardly bent marginal rims positioned laterally with respect to said tire, said connecting means engaging said lamellas near said marginal rims, and a plurality of blades shaped like ring sectors, each of said blades being affixed to and extending in radial direction outwardly from one of said lamellas being positioned farther radially outward than said connecting means and extending in peripheral direction beyond said lamella, each of said ring sectors having a forked end and having another end slidably positioned in the forked end of a neighboring ring sector whereby said blades overlap and form a complete ring.

2,666,470
TIRE TREAD AND APPARATUS FOR FORMING SAME
Harold E. Kimes, Chicago, Ill., assignor to Harold E. Kimes Corporation, Chicago, Ill., a corporation of Illinois
Application August 27, 1949, Serial No. 112,711
12 Claims. (Cl. 152—211)



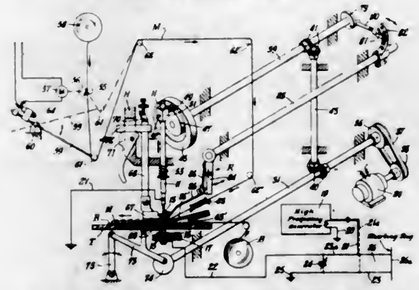
1. In a pneumatic tire, an annular resilient rubber tread, a plurality of resilient metallic wire inserts embedded crosswise within said tread, said inserts having resilient arcuate arms projecting outwardly in spaced relation toward and terminating adjacent the outer surface of said tread, the outer surface of said tread being formed with a circumferentially extending concave recess disposed between the arms of said inserts.

2,666,471
TRACTION CHAIN
Sherman L. Richards, North Tonawanda, and William H. Devonshire, Kenmore, N. Y., assignors to Columbus McKinnon Chain Corporation, Tonawanda, N. Y.
Application April 27, 1948, Serial No. 23,412
6 Claims. (Cl. 152—239)



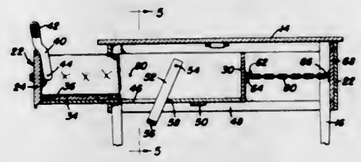
1. A traction device for a vehicle wheel, said device comprising side chains and cross chain units extending between said side chains at intervals therealong, said cross chain units each comprising a taut cross chain and a slack cross chain disposed in side-by-side relation and each extending the entire distance between said side chains, said slack cross chains being of a greater lengthwise extent than said taut cross chains sufficient to enable the slack cross chain of each unit to roll freely back and forth across its associated taut cross chain as the wheel mounting the traction device rotates.

2,666,472
APPARATUS FOR MAKING HEAT SEALED RUFFLED ARTICLES
Lee C. Hosfield, Parma, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Original application December 7, 1946, Serial No. 714,832. Divided and this application October 18, 1950, Serial No. 190,802
5 Claims. (Cl. 154—1.6)



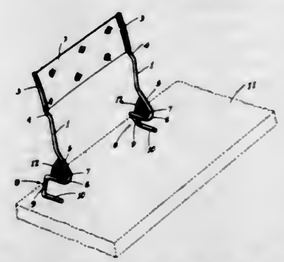
1. Apparatus for producing heat-sealed ruffles, which comprises at least one stationary electrode and at least one cooperating reciprocatable electrode; means for impressing a high frequency voltage upon said electrodes; means for intermittently moving successive portions of a sheet-like element of a dielectric material between and past said electrodes at a selected rate by a rapid succession of short movements and for discontinuing each such movement; means for moving the reciprocatable electrode at a rapid selected rate toward and from the other electrode and into and out of contact with the dielectric material; resilient means for pressing the reciprocatable electrode into contact with dielectric material disposed between the electrodes; means correlating the material-moving means and the electrode-reciprocating means whereby the former is operative when the reciprocatable electrode is out of contact with the dielectric material; means including a slotted folder arm operatively interconnected with said reciprocatable electrode for forming folds in said material; means for reciprocating the folder arm into and out of the zone between said electrodes; and means correlating the movement of the folder arm with that of the reciprocatable electrode for moving the former and the material carried thereby into folding position between the electrodes while the reciprocatable electrode is out of contact with the dielectric material and for retracting the folder arm from such folding position immediately after the reciprocatable electrode contacts the folded area made in the material by such folding movement of the folder arm.

2,666,473
DRAWER SEAT
William R. Dean, Torrington, Wyo.
Application December 17, 1951, Serial No. 262,121
4 Claims. (Cl. 155—123)



1. A combination table and infant's chair comprising a table having a top, a tray mounted in said table for sliding movement beneath said top, said tray comprising front, bottom, back and side walls, a back rest and a seat in said tray, said tray having an opening in said bottom wall for receiving an infant's feet, a foot rest mounted on said tray, said foot rest including a pair of supports and a foot bar secured therebetween, said supports being pivoted to the inner surfaces of the tray side walls for pivotal movement of the foot bar through said opening.

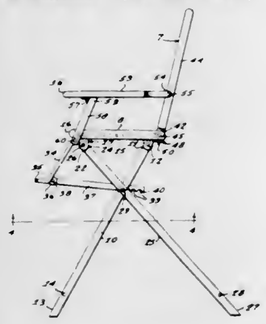
2,666,474
SEAT BACK REST
Norman K. Bossert and Theodore Wagner, Lodi, Calif., assignors of one-third to Edwin C. Reimche, Lodi, Calif.
Application July 22, 1949, Serial No. 106,269
4 Claims. (Cl. 155—133)



3. A back rest for an initially backless board seat comprising a pair of transversely spaced rigid standards, a seat back of flexible material connected between the upper portions of the standards, and a yoke on the lower end of each standard comprising vertically spaced legs pro-

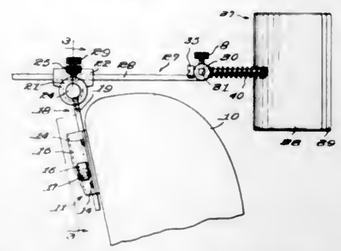
viding opposed transversely extending vertically spaced edges for seat engagement and defining a horizontal opening whose direct height between said edges is slightly greater than that of the seat so that the yoke may initially straddle the seat; the lines of direct height of the openings of the two yokes if extended intersecting each other centrally between the standards and at a downwardly facing angle when the standards are substantially vertical and the back is substantially taut whereby the points of engagement of the upper legs of the yokes with the seat are then laterally inward of the points of engagement of the lower legs with the seat, so as to provide a binding action against the seat upon pressure being exerted on the standards in a direction to draw the upper ends thereof toward each other.

2,666,475
FOLDING HIGH CHAIR
Alfred D. Broadie and Glade D. Hoyal, Amarillo, Tex.
Application November 12, 1948, Serial No. 59,464
2 Claims. (Cl. 155—147)



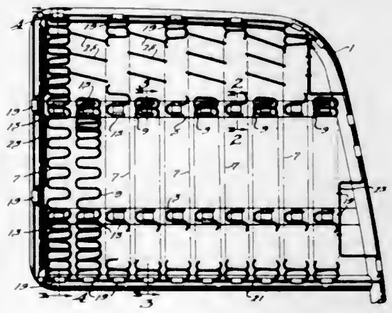
1. A folding chair comprising a first pair of upstanding legs arranged in side by side spaced relation, a second pair of upstanding legs arranged in crisscross relation with respect to said first pair of legs, a securing element extending through said first and second pairs of legs at their crisscross point and pivotally connected thereto, a seat positioned upon the upper ends of said first and second pairs of legs, a pair of spaced aligned lugs positioned below said seat adjacent one end thereof and secured thereto, the upper end of each of said first pair of legs being pivotally connected to the corresponding one of said lugs, said seat having spaced parallel slots extending inwardly from the underface thereof adjacent the side edges and arranged in parallel relation with respect to said side edges, brackets positioned below said seat and mounted in the corresponding one of said slots for sliding movement, the upper end of each of said second pair of legs being pivotally connected to the respective one of said brackets, an upstanding back arranged adjacent said one end of said seat and pivotally connected thereto, locking means on said back and engageable with said seat for securing said back to said seat, a horizontally disposed arm rest positioned on each side of said back above said seat and having one end pivotally connected to said back, and a brace positioned below each of said arm rests adjacent its other end thereof and having one end connected to said arm rest for swinging movement about an axis transverse of said arm rest, the other end of each of said braces being pivotally connected to the other end of said seat.

2,666,476
AUTO SEAT HEADREST
Bertha C. Lycan, Omaha, Nebr.
Application August 15, 1949, Serial No. 110,411
2 Claims. (Cl. 155—177)



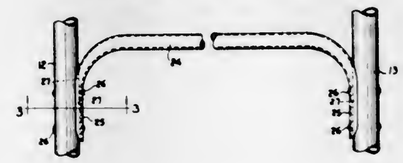
1. In a head rest, an open-ended bracket adapted to be attached to the back of a vehicle seat, said bracket including a pair of spaced parallel side walls, there being a flared slot in each of said side walls, a vertically disposed standard having a shank projecting through the open end of said bracket, a pin extending through the slots in said side walls for maintaining the shank immobile in its adjusted position in said bracket, a block supported on said standard having a channelway therein, a horizontally disposed body member having a stem slidably positioned in said channelway, a thumb screw extending through said block and into engagement with said stem for maintaining said standard immobile in its adjusted position, a support member operatively connected to the front end of said body member, a pair of spaced parallel horizontally disposed headed pins projecting forwardly from said support member, the front ends of said pins being threaded exteriorly for a portion of their length, a head-engaging element supported by said pins and including an arcuate backing plate arranged in threaded engagement with the threaded ends of said pins, a cushion secured to the front of said backing plate, and a coil spring circumposed on each of said pins to provide shock absorbers.

2,666,477
ZIGZAG SPRING SEAT BACK HAVING ALTERNATE SPRINGS OF DIFFERENT LENGTHS AND FORM
Hyland C. Flint, Birmingham, Mich., assignor to American Metal Products Company, Detroit, Mich., a corporation of Michigan
Application December 16, 1949, Serial No. 133,395
3 Claims. (Cl. 155—179)



1. In a cushion construction, the combination of a frame, a plurality of parallel sinuous spring elements having load receiving webs lying in and defining a common cushion surface, each of said webs at one end lying in a continuous common edge, a first group of elements having webs that are substantially longer than the webs of a second group of elements and extending beyond the ends of the second element webs to define a cushion surface that is spaced lengthwise of an area containing the second element webs, the elements of each group being transversely spaced with the elements of the other group in between, and means securing the extremities of the elements to the frame.

2,666,478
FOLDING CHAIR BRACE
Benjamin Shwayder, Detroit, Mich., assignor to Shwayder Brothers, Ecorse, Mich., a corporation of Colorado
Application June 25, 1949, Serial No. 101,290
1 Claim. (Cl. 155—197)



In a folding chair having a pair of spaced interconnected tubular legs of circular cross-section, a hollow tubular cross brace interconnecting said legs and consisting of a straight elongated element of circular cross-section interposed between said legs at right angles thereto with its ends down-turned normally thereof, in abutting engagement with and extending along opposed interior surface portions of said legs for a portion of their length, opposed side walls at said ends being pressed together and arcuately formed to cooperatively register with said interior leg portions, the width of said surface engagement being greater than the diameter of said cross brace, and means immovably securing said ends to said legs.

2,666,479
GASEOUS FUEL CUTTING TORCH WITH REVERSIBLY POSITIONED VALVE LEVER
Edward J. Clinton, Jr., Chatham, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New Jersey
Application August 11, 1949, Serial No. 109,736
15 Claims. (Cl. 158—27.4)

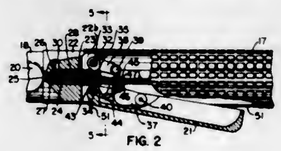
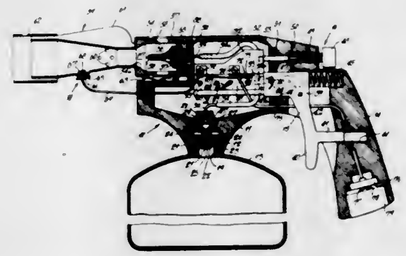


FIG. 2

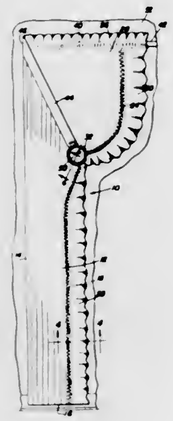
15. A hand torch having a handle portion, a valve block having a valve chamber provided with a valve seat, a valve member movable in said chamber and having a portion cooperating with said seat, and means for operating said valve member comprising a hand lever and linkage between the hand lever and the valve member, said hand lever and linkage being mounted on the torch adjacent the handle portion of the torch, and said linkage comprising a member having a valve-contacting portion, a connecting link connecting said member to said handle lever, spring means mounted between and bearing against said valve contacting portion of said member and said connecting link, and a screw mounted in said valve contacting portion of said member, said connecting link having an enlarged opening through which said screw extends and said screw having a head larger than said enlarged opening to prevent passage of the free end of the screw through said opening.

2,666,480
HAND TORCH AND IGNITER FOR USE WITH LOW BOILING POINT FUEL
Robert E. Peterson, New York, N. Y., assignor to Repeter Products, Inc., Long Island City, N. Y., a corporation of New York
Application February 24, 1947, Serial No. 730,488
3 Claims. (Cl. 158—33)



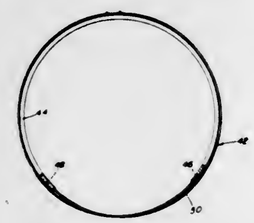
1. In apparatus of the character described for burning a low boiling point fuel, the combination of, a container adapted to receive and hold a low boiling liquefied fuel which is maintained in liquid form in said container by reason of its own vapor pressure, a body member having fuel inlet and outlet openings the former of which is connected to said container, said container being outside of said body member, means forming a fuel passageway within said body member between said openings, a spring-biased member engageable with said fuel passageway means normally closing said passageway to block the flow of fuel therethrough, said body member including a hand grip, a manually operable member carried by the hand grip and associated with said body member and with said spring-biased member and operable to move said spring-biased member to open said fuel passageway so that fuel can flow therethrough, a carbureting device in communication with said outlet opening, means forming an air supply communicating with said carbureting device, means forming a mixing chamber on the discharge side of said carbureting device, means forming a burner chamber communicating with said mixing chamber, an igniting mechanism including an igniting member operatively associated with said burner chamber whereby the air-fuel mixture within the burner chamber may be ignited, and means including a transmission system extending from said manually operable member to said igniting mechanism for actuating said mechanism, whereby when said manually operable member is operated said spring biased member is moved out of operative position with respect to said fuel passageway means to permit the latter to open and said igniting member is operated to ignite the air-fuel mixture, further movement of the said manually operable member interrupting the operation of the said igniting member.

2,666,481
CURTAIN
Robert E. White, St. Cloud, Minn.
Application October 3, 1952, Serial No. 312,888
5 Claims. (Cl. 160—348)



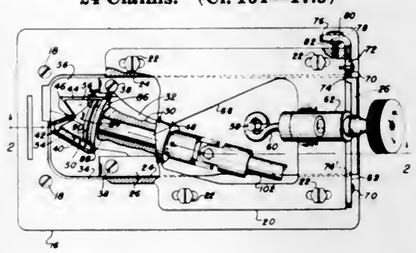
1. A curtain comprising a substantially rectangular main body portion having a substantially straight inside edge, a generally sector-shaped auxiliary portion extending inwardly from the main body portion and having an arcuate lower edge co-terminal with the upper end of said straight inside edge, an annular forming member having the arcuate lower edge of said auxiliary portion secured circumferentially thereto and disposed at the co-terminal point of said straight and arcuate edges, and means for sustaining said forming member in position.

2,666,482
BASKET COVER
Kyffin T. Bussard, Albany, Oreg.; Ward Ruthruff, executor of said Kyffin T. Bussard, deceased, assignor to R. D. Bussard, Albany, Oreg.
Application July 21, 1950, Serial No. 175,233
3 Claims. (Cl. 160—354)



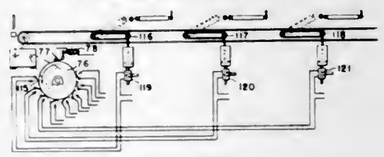
1. For use with an extractor tub, a flexible cover having a peripheral pocket extending entirely therearound, a resilient wire carried within said pocket and having its ends overlapped, a stiffening tube disposed within said pocket and having its ends circumferentially spaced from one another, the overlapping ends of said wire being disposed within the ends of said tube whereby the tube and wire constitute a yieldable means to expand and reduce the effective covering surface of the cover.

2,666,483
PINKING MECHANISM
Victor J. Sigoda, Great Neck, N. Y., assignor to Man-Sew Corporation, New York, N. Y., a corporation of New York
Application November 13, 1947, Serial No. 785,766
24 Claims. (Cl. 164—17.5)



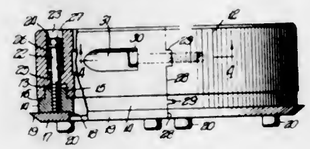
1. In pinking mechanism, a ledger blade having shearing edges defining a pinking notch, a member movable in intersecting relation to said blade and having a pinking tooth coacting with the shearing edges of said notch, and means for arcuately adjusting the ledger blade in its own plane relative to said movable member to position the shearing edges of the blade relative to the coacting cutting edges of the pinking tooth.

2,666,484
SHEET CLIPPING AND CLASSIFYING APPARATUS
Dale L. Schubert, Tacoma, Wash., assignor to Plywood Research Foundation, Tacoma, Wash., a corporation of Washington
Application June 15, 1948, Serial No. 33,050
6 Claims. (Cl. 164—48)



1. In a sheet clipping and classifying apparatus, the combination of a sheet clipper, an in-feeding conveyor arranged to deliver a continuous sheet to said clipper, an out-bearing conveyor arranged to receive individual sheets in succession from said clipper, a plurality of successive transfer conveyors each movable between an inoperative position and an operative position relative to said out-bearing conveyor, a plurality of electrically controlled power means each arranged to move one of said transfer conveyors, a movable control member synchronized with said infeeding conveyor, said control member including a plurality of actuating elements spaced therealong and each movable between an active and an inactive position, clipper control means positioned adjacent said movable control member and past which said actuating elements pass in succession as said control member is moved, said clipper control means being so constructed and arranged as to be actuated only by such of said actuating elements as are in active position as they pass thereby, a series of control switches arranged along the line of travel of said movable control member and each having an operating member biased into the path of travel of said actuating elements when the elements are in active position, a plurality of actuating circuits each connected to control one of said transfer conveyor power means and each including an actuating switch, a plurality of time delay means each arranged to operate one of said actuating switches and each responsive to the action of an electro-responsive actuator, and circuit means for selectively energizing said electro-responsive actuators in response to simultaneous actuation of different spaced pairs of said control switches.

2,666,485
ROTARY CUTTER
John G. Antosh, Rhinelander, Wis.
Application June 6, 1950, Serial No. 166,368
2 Claims. (Cl. 164—70)



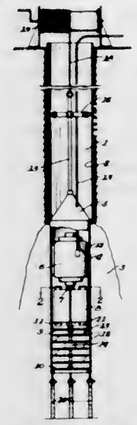
1. A rotary cutter comprising an annular supporting member, a cutter blade, a blade mounting member, one end of said supporting member being provided with an annular continuous recess, a reduced annular rib formed at one end of said blade mounting member, said rib entering said recess for sliding movement axially of said supporting member, said cutter blade being rigidly affixed to the opposite end of said blade mounting member, and yieldable connecting means between said supporting member and said blade mounting member for normally maintaining said blade mounting member in contact with said supporting member, a pressure exerted upon said cutter blade in a lateral direction away from said supporting member permitting said connecting means to yield for shifting said blade mounting member away from said supporting member, during the shifting movement of said blade mounting member said rib sliding within said recess for guiding said blade mounting member in its shifting movement with relation to said supporting member.

2,666,486
LEDGER BLADE FOR PINKING MECHANISMS
Victor J. Sigoda, Great Neck, N. Y., assignor to Man-Sew Corporation, New York, N. Y., a corporation of New York
Original application November 24, 1945, Serial No. 630,635, now Patent No. 2,540,355, dated February 6, 1951. Divided and this application October 28, 1946, Serial No. 706,229
13 Claims. (Cl. 164—70)



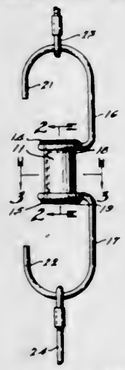
1. A ledger blade for fabric pinking devices having shearing edges defining a pinking notch and means projecting above the top surface of said blade for uniformly tensioning the fabric in contact with said shearing edges.

2,666,487
WELL HEATER
Hyman D. Bowman, Raleigh, N. C.
Application October 6, 1950, Serial No. 188,782
1 Claim. (Cl. 166—17)



In a well heating apparatus of the class described, in combination, an elongated cylindrical shell having an open lower end and a closed cone-shaped top, a cross-bar fixed in said shell, an electric motor mounted in the upper end of said shell and including a shaft, said shaft provided with a depending extension having its lower end journaled in said cross bar, a plurality of electric heating elements mounted in the lower end of said shell below said cross-bar, a fluid circulator secured to said extension to rotate with the latter, said shell provided with a plurality of openings positioned directly outward of said circulator, a vertically projecting member having the lower end thereof fixed to said top, a transversely extending cross-arm fixed to said member, a pair of gripping mechanisms having pivotal eccentric connections with respective ends of said cross-arm and being operable for engaging the wall of the well for preventing the rotation of said shell in the well, and means connecting with the upper end of said member operable for lowering and elevating the apparatus in the well.

2,666,488
FUSIBLE FASTENER
Donald R. Ruegsegger, St. Clair Shores, Mich.
Application September 26, 1951, Serial No. 248,430
10 Claims. (Cl. 169—42)



1. In a device of the class described, a pair of relatively thin sheet metal tubular elements

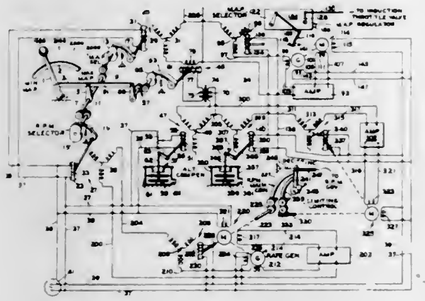
in telescopic relation and adapted to be subjected to an axial force tending to separate them, and a fusible joint connecting the facing surfaces of said tubular elements, said joint being subjected to a direct shear stress by said axial force.

2,666,489

ALTITUDE COMPENSATED CONTROL SYSTEM AND APPARATUS FOR AIRCRAFT ENGINES

Allen W. Blanchard, Allendale, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application August 2, 1951, Serial No. 239,971
7 Claims. (Cl. 170—135.74)



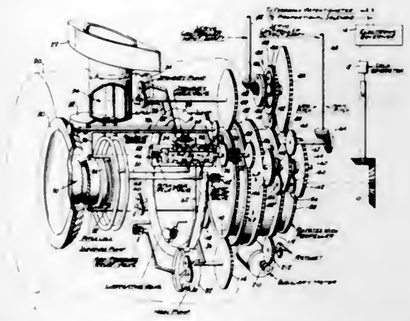
5. For use in controlling the power output of an aircraft engine having an intake manifold and a variable pitch propeller driven by the engine, a control for regulating the intake manifold pressure to a selected value, a governor for controlling the pitch of the propeller so as to regulate the engine speed to a selected value, and said control and governor each having an adjustable datum changing member operative respectively to vary the selected intake manifold pressure and speed of the engine; the combination comprising an electrically operated actuator motor for positioning the datum changing member of the intake manifold pressure control, a master electrical control, means for operably connecting the master control to said first actuator motor, an atmospheric pressure responsive electrical control connected to said first actuator motor by said last mentioned connecting means to effect operation of said first actuator motor by said atmospheric pressure responsive control, other means operatively connecting said master control to said last mentioned connecting means to vary the effect of said atmospheric pressure responsive control on said first actuator motor, an electrically operated second actuator motor, means for operably connecting the master control to said second actuator motor, a third actuator motor, means for operably connecting the atmospheric pressure responsive control to said third actuator motor, a pair of adjustable stop members, a control element for adjustably positioning the datum changing member of the propeller pitch governor, spring means for biasing said control element into operative engagement with at least one of said stop members, and means operably connecting said first actuator motor to one of said stop members, and the other actuator motor to the other stop member for adjustably positioning the stop members so as to limit movement of the control element under the biasing force of said spring means in an engine speed decreasing sense.

2,666,490

AUXILIARY DRIVE FOR PROPELLER PITCH CONTROL

Nelson R. Richmond, Thompsonville, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application May 3, 1950, Serial No. 159,772
15 Claims. (Cl. 170—160.2)



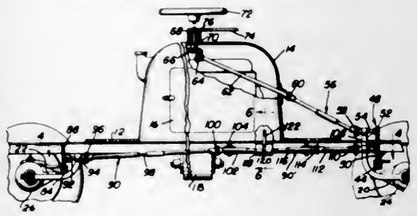
1. In a propeller having variable pitch blades, means for varying the pitch of said blades, power means for actuating said pitch varying means including operative connections thereto, means for driving said power means when the propeller is rotating, a governing servo mechanism operatively connected to said pitch varying means for controlling said pitch varying means including servo power means normally driven by propeller rotation, said servo power means including a member fixed during propeller rotation, and auxiliary means for driving both said power means when the propeller is stationary including operative connections to both said power means.

2,666,491

FARM TRACTOR

John A. Johnson, Zebulon, N. C.

Application February 3, 1950, Serial No. 142,218
2 Claims. (Cl. 180—45)



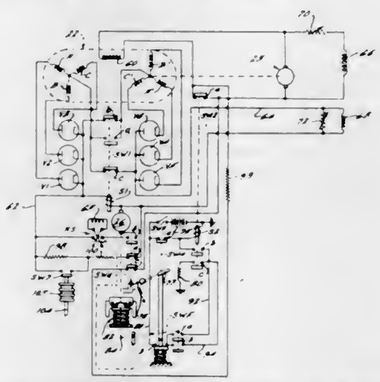
1. In a tractor including an elongated frame having forward and rear axles and forward and rear pairs of wheels connected to the forward and rear axles for steering movement; a forward rigid tie rod terminally connected to the forward wheels; a rear rigid tie rod terminally connected to the rear wheels; forward and rear sectional shafts extending longitudinally of the frame; each of said sectional shafts being composed of three sections and universal joints connecting the sections; coaxial longitudinal bearings supported by the frame and rotatably supporting the adjacent sections of said forward and rear shafts and maintaining the adjacent sections coaxial; one section of said rear shaft being a telescoped section; forward and rear support brackets carried by said forward and rear axles and including substantially horizontal bearing portions rotatably and slidably supporting the forward section of the forward shaft and the rear section of the rear shaft, respectively; said forward tie rod having an upper face provided with rack teeth; a first gear fixed to the forward section of the forward sectional shaft and overlying and meshing with the rack teeth on said forward tie rod; said forward support bracket being provided with a second horizontal bearing portion overlying the first named bearing portion of said forward bracket; a steering column supported by the frame and having a forward horizontal shaft section journalled for rotation in said second bearing portion; a drive gear fixed on said horizontal shaft section overlying and meshing with said first gear; said first gear and said drive gear lying in the plane of the forward tie rod; said rear tie rod having an upper face provided with rack teeth; a second gear fixed to the rear end portion of the rear shaft and overlying and meshing with the rack teeth of said rear tie rod; and a clutch including a collar slidably engaged on the forward section of the rear shaft and movable selectively onto and off of the rear section of the forward shaft whereby said forward and rear shafts may be rotated as a unit, and further, whereby said forward shaft may be rotated independently of said rear shaft.

2,666,492

ELECTROMECHANICAL CHANGE-SPEED TRANSMISSION AND BRAKE CONTROL FOR VEHICLES

Paul T. Nims and Alexander Chadkewicz, Detroit, Mich.; said Chadkewicz now by change of name Alexander Chadwick, assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Original application January 23, 1948, Serial No. 3,847. Divided and this application August 4, 1950, Serial No. 177,652
16 Claims. (Cl. 180—65)



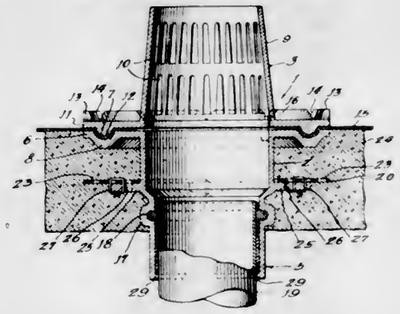
5. In an electrical driving system for an engine and electric motor driven vehicle or the like incorporating electrical generating means, wheels, electric motor means adapted to be connected to the output of said generating means and to deliver torque to at least one of the wheels, and engine throttle and vehicle brake controls having pedals providing for operator control over acceleration and deceleration of the wheels, mechanical gear-type transmission means including a dual planetary system incorporating two adjacent planetary gearsets, each gearset having planet gears, a carrier carrying the planet gears of both gearsets, and coaxial gears which mesh with the planet gears of the respective gearsets and about which the planet gears rotate, said dual system having two driving portions and having two output portions for the respective generating means and said one wheel, one of said driving portions and one of said output portions being connected to said carrier, the other driving portion being connected to one of said coaxial gears and the other output portion being connected to the other coaxial gear, dynamic braking means including an electrical load, and electrical switching elements operatively connected to at least one of said pedals for causing dynamic braking to be applied concurrently with predetermined control movement of the latter, different ones of said switching elements being effective for disconnecting said electric motor means from the output of the generating means and for connecting said load to said output of the generating means.

2,666,493

THREE-WAY, ALL-PURPOSE DRAIN

Arthur Gordon, Chicago, Ill.

Application November 24, 1950, Serial No. 197,247
3 Claims. (Cl. 182—31)



3. A drain comprising a main body portion adapted to extend through a supporting concrete structure with its upper surface approximately flush with the upper surface of the concrete structure, a removable strainer portion disposed above said main body portion, said main body portion having a lower portion adapted to receive a standard drain pipe, means for reinforcing the concrete adjacent said drain comprising a plurality of lugs affixed to and extending outwardly from the main body portion of said drain at approximately the juncture of the lower portion therewith, an annular perforated disk affixed to said lugs and extending outwardly into the concrete, and tie wires inserted through said annular plate and around said lugs to hold said annular plate against horizontal and lateral movement.

2,666,494

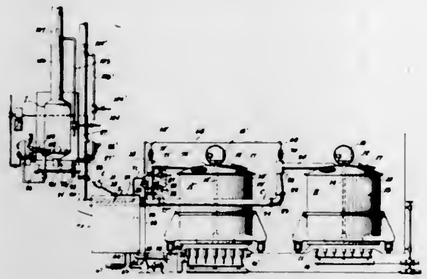
DISPOSAL OF FUMES BY SCRUBBING AND BURNING

John P. Engel, Miller Place, N. Y., assignor to Sapolin Paints, Inc., New York, N. Y., a corporation of New York

Application August 31, 1951, Serial No. 244,544
9 Claims. (Cl. 183—6)

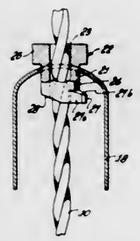
1. In a plant having a reactor in which oils, resins, and the like are reacted and in which the reaction generates fumes which are disposed of by incineration, a fume conduit leading from said reactor, a scrubber tank into which said conduit leads, a water powered ejector withdrawing fumes from said reactor mounted in said conduit between said reactor and said tank, said tank having a passageway through which said

fumes travel, water spray means in said tank providing a water curtain across the path of travel of said fumes and partially negating the draft induced by said ejector, means for introducing air into said tank, an incinerator con-



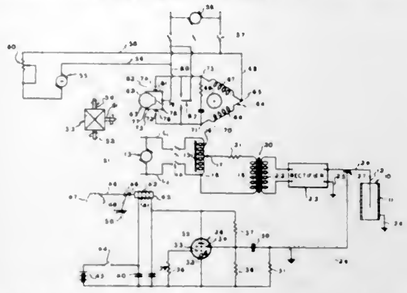
nected to said tank, a fume stack leading from said incinerator, and draft inducing means within said stack, said ejector and stack draft inducing means being independently adjustable for controlling the relative suction in said reactor and said stack.

2,666,495
ELECTRODE ASSEMBLY FOR ELECTRICAL PRECIPITATORS
William F. Hull, Lomita, Calif., assignor to Western Precipitation Corporation, Los Angeles, Calif., a corporation of California
Application September 19, 1950, Serial No. 185,626
4 Claims. (Cl. 183—7)



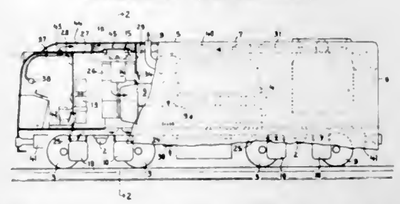
1. In a high tension electrode assembly for an electrical precipitator, the combination comprising: a metal bar having an opening therethrough; a one-piece hollow insulator bushing in and substantially filling said opening with the axis of the bushing normally substantially coincident with the axis of said opening, said bushing having at one end shoulder means projecting beyond the periphery of said opening to engage the metal bar and support the bushing and having at its other end an eccentric lip at one side only of the bushing body, said lip extending beyond the periphery of said opening to engage the metal bar and prevent withdrawal of the bushing through the opening by axial movement when in said normal position but short enough to permit the bushing to be removed in a direction axial of the opening when its axis is tilted with respect to the axis of the opening; and a comparatively stiff electrode slidably passing centrally through the insulator bushing with slight clearance and holding the bushing against such tilting movement.

2,666,496
SYSTEM FOR ENERGIZING ELECTRICAL PRECIPITATORS AND THE LIKE
Ralph E. Willison, North Branch, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application September 6, 1951, Serial No. 245,290
8 Claims. (Cl. 183—7)



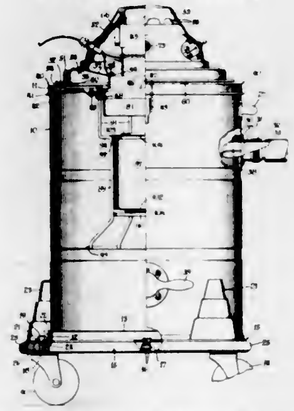
6. A system for energizing the electrodes of an electrical precipitator and the like comprising a voltage regulator, a reversible electric motor connected to vary the voltage of said regulator, switch means controlling said reversible electric motor, a device responsive to disturbances in the system caused by an inter-electrode spark, means for generating current pulses in accordance with the responses of said spark responsive device, a rotary electric motor actuated by said current pulses, a rate motor operable at preselected speed, and a mechanical differential gearing having two input shafts and an output shaft, said rotary electric motor being connected to drive one of the differential input shafts, said rate motor being connected to drive the other of said input shafts, and the output shaft of said differential gearing being connected to operate the switch means controlling said reversible electric motor.

2,666,497
VENTILATING AND FILTERING SYSTEM FOR DIESEL-ELECTRIC DRIVEN LOCOMOTIVES
Arnold Weber, Winterthur, Switzerland, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland
Application June 29, 1951, Serial No. 234,278
Claims priority, application Switzerland July 1, 1950
4 Claims. (Cl. 183—36)



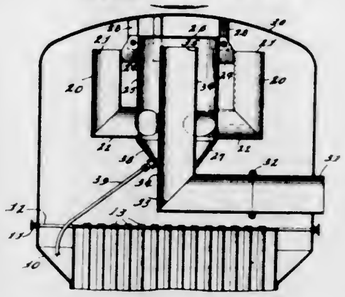
3. Ventilating system particularly for internal combustion engine powered electrically driven locomotives comprising a blower adapted to draw in air from the external atmosphere, an air duct connected at one end to the blower and forming a pair of ducts at its other end, a first filtering means in the duct common to both ducts of the pair, a plurality of electric motors, one duct of the pair conducting the filtered air to and through the motors of the plurality, a second filtering element in the other duct of the pair, a pressure compartment connected to the latter duct beyond the second filtering element, an engineer's cabin separated from the pressure compartment by a common wall, outlets in the common wall adapted to be opened into the cabin under the pressure of air flow from the pressure compartment and to be closed in the absence of such pressure air flow, and an air outlet in the cabin connected to the intake side of the blower to cause circulation of ventilating air through the cabin.

2,666,498
SUCTION CLEANER
William L. Petersen, Muskegon, Mich., assignor to Clarke Sanding Machine Company, Muskegon, Mich., a corporation of Michigan
Application March 25, 1952, Serial No. 278,357
2 Claims. (Cl. 183—37)



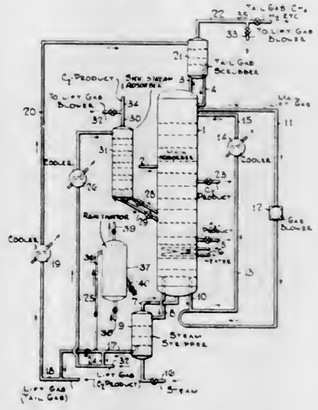
1. In a suction cleaner having a vertically disposed cylindrical container, a removable cover and suction assembly comprising a main cover plate of annular conformation; an electric motor having a frame centrally disposed with respect to said cover plate, with a peripheral flange at the lower end of said motor resiliently mounted on the cover plate by a circular rubber ring secured between the flange of the motor frame and the inner edge of the cover plate; an annular cover ring concentric with and fixedly secured in spaced relation above said cover plate and defining an exhaust air chamber with an annular outlet between said cover plate and ring, with a yieldable resilient diaphragm extending between an inner marginal edge of said cover ring and the aforesaid motor frame; a hollow shell secured to the cover ring and enclosing the aforementioned electric motor and with a motor cooling fan positioned within said motor frame and adapted to circulate air through said motor and shell; said motor including an armature shaft extending downwardly and projecting from said motor frame, with a rotatable suction fan carried on the projecting end of said armature shaft and disposed below the motor frame and substantially below said cover plate; a circular suction fan housing surrounding said suction fan and detachably secured to the lower end of the motor frame, with exhaust ports leading from said suction fan to the exhaust air chamber between the cover plate and cover ring and thence through the annular air outlet therebetween, and with a central air inlet on the bottom of the suction fan housing and a shut-off float comprising a relatively large hollow metallic container having a closure plate substantially the diameter of the suction fan at its upper end adapted to engage the bottom of said suction fan housing and close the air inlet to said fan.

2,666,499
CENTRIFUGAL SEPARATOR
Frederick A. Loebel, Milwaukee, Wis., assignor to Cleaver-Brooks Company, a corporation of Wisconsin
Application April 11, 1951, Serial No. 220,449
7 Claims. (Cl. 183—82)



1. A centrifugal steam separator adapted to operate within a steam chamber and comprising, an upright cylindrical main body closed at its ends and adapted to receive a swirling stream of steam for separating out entrained particles, a plurality of inlet tubes arranged generally parallel to the main body and each having a connecting portion for conducting steam from the tube into the main body near one end thereof, said connecting portions being joined tangentially with the body to produce said swirling stream, a discharge header having an outlet extending concentrically into the main body and terminating with an open end adjacent the end of the body opposite said inlet tube connections with the main body, the main body having a length to permit at least one turn of the incoming steam around the outlet header between the inlets and outlet, and means for removing separated particles from the separator.

2,666,500
ADSORPTION PROCESS
Robert P. Cahn, Elizabeth, and Lewis D. Etherington, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application October 16, 1950, Serial No. 190,292
11 Claims. (Cl. 183—114.2)



1. In a cyclic process for the separation of a fluid mixture containing a less readily adsorbed

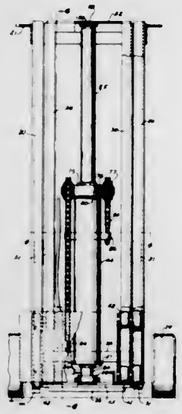
component A and a more readily adsorbed component B by means of adsorption on a solid adsorbent in an adsorption zone in which the fluid mixture is countercurrently contacted with the adsorbent to adsorb component B, a fluid stream comprising components A and B removed from the adsorption zone, the adsorbent containing component B desorbed to release component B therefrom, and the desorbed adsorbent returned to the adsorption zone, the improvement which comprises partially desorbing component B from the total adsorbent in a partial desorption zone, completely desorbing component B from a minor portion of the adsorbent in a clean-up desorption zone, returning the partially desorbed adsorbent to the adsorption zone, and scrubbing the fluid stream comprising components A and B in a scrubbing zone with the completely desorbed adsorbent to assure complete removal of component B from component A.

2,666,501

HYDRAULICALLY OPERATED TIER-LIFT MECHANISM FOR INDUSTRIAL TRUCKS

Edward J. Abbe, Cleveland Heights, Ohio, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio, a corporation of Ohio

Application December 20, 1949, Serial No. 134,098
2 Claims. (Cl. 187—9)



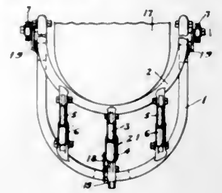
1. In a lift truck having telescopic uprights operatively supporting a load tiering carriage which is actuated by one of a plurality of compound piston-cylinder rams concentrically arranged one within the other, said rams consisting of a hollow piston-cylinder unit reacting on the telescopic uprights to extend the same vertically and a hollow piston-cylinder unit surrounding the first named unit and connected to the carriage by flexible means to elevate the carriage relative to the telescoped uprights: movement limiting means disposed between the respective pistons and cylinders comprising an expanded ring supported in a groove in the internal face of the cylinder of the carriage operating ram serving as a stop for a bottom flange ring on the carriage operating piston, and a spacer ring carried on a second expanded ring supported in a groove in the internal face of the carriage operating piston and disposed between the carriage operating piston and the upright operating cylinder.

2,666,502

WHEEL CHOCK

Earl L. Fee, Windsor, Ontario, Canada

Application December 27, 1948, Serial No. 67,326
6 Claims. (Cl. 188—32)



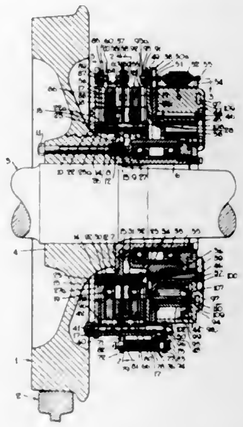
1. In a wheel chock, the combination of a U-shaped lower frame, a U-shaped upper frame, pivotal connections between the open ends of the legs of said frames, expansible pressure-actuated means interconnecting the base portions of said U-shaped frames comprising a piston secured to one frame and a cylinder for the piston secured to the other frame, and slidable guide means interconnecting the frames comprising cylinders pivoted to one frame and pistons slidable in said cylinders pivoted to the other frame.

2,666,503

DISK BRAKE

Joseph C. McCune, Edgewood, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Original application August 12, 1948, Serial No. 43,913. Divided and this application May 14, 1949, Serial No. 93,319
17 Claims. (Cl. 188—72)



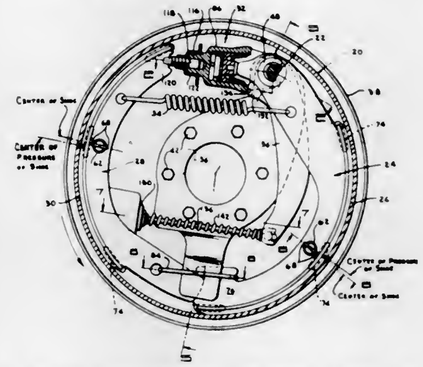
1. A brake disk for a disk brake apparatus comprising a plurality of disk segments arranged in substantial end-to-end relation, one or more brake shoes secured to each of said segments, a bridge piece overlying adjacent ends of each adjacent pair of segments and welded thereto except at two connections between two bridge pieces and segments arranged at diametrically opposite parts on said disks, each of said bridge pieces having two spaced apart bores for alignment with bores in the underlying segments, and a bolt in the aligned bores in the bridge pieces and segments not welded together securing same together.

2,666,504

BRAKE

Edward H. Berno, Plymouth, and Edwin J. Balluff, Farmington, Mich.

Application October 7, 1949, Serial No. 120,138
5 Claims. (Cl. 188—152)



5. Brake structure comprising a drum, an anchor pin, a secondary brake shoe shaped to conform with the curvature of said drum, a floating connection between one end of said shoe and said anchor pin which provides for pivotal movement of said shoe about said anchor pin and for floating movement of said shoe with respect to said anchor pin, and toward and away from said drum, so that the shoe is free to conform with the curvature of the drum, said pin having a flat thereon and said shoe having a curved end engageable with said flat and adapted to bear thereagainst during brake application in one direction, said flat being substantially parallel to a drum radius extending through the axis of said pin whereby said end of said shoe moves substantially along said radius toward said drum upon brake application in said one direction of drum rotation, a primary shoe having one end thereof pivoted to the other end of said secondary shoe and shaped to conform with the curvature of said drum, and means reacting on said one end of said secondary shoe and the other end of said primary shoe for forcing said shoes into engagement with said drum, said anchor pin being operable for taking all of the braking torque of both shoes during brake application in both directions of drum rotation.

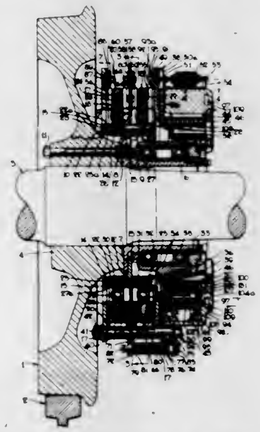
2,666,505

DISK BRAKE

Joseph C. McCune, Edgewood, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application August 12, 1948, Serial No. 43,913
12 Claims. (Cl. 188—153)

4. A disk brake mechanism for a member to be braked comprising interleaved rotatable and non-rotatable brake elements movable into frictional interengagement to effect braking of said member and movable out of interengagement to brake release positions, means connecting said rotatable elements for rotation with said member, a non-rotatable structure arranged in coaxial relation to and at one side of said brake element comprising means for holding said non-rotatable brake element against rotation and providing for movement thereof into and out of interengagement with said rotatable elements, actuating means carried by said structure for actuating said elements into interengagement, and means operable upon release of said actuating means for moving two of said non-rotatable brake elements to their brake release positions comprising, for one of said two non-rotatable brake elements, a plurality of springs spaced around and connected at one end to the brake element, a bail for each of said springs having parallel legs disposed in bores in said actuating means and connected at its center to the respective spring for rendering it effective to move the respective non-rotatable brake element to its brake release position, and comprising for the other of said two non-rotatable brake elements a plurality of spring means



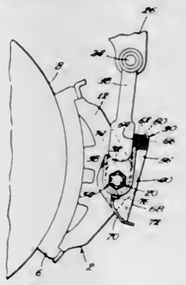
spaced around and carried by said non-rotatable structure, a flexible cable connected at one end to each of said spring means, a U-shaped clip for each of said spring means projecting from the edge of the respective stator and having in one leg a bore and having a slot extending through both legs to said bore, and a button connected to said cable and disposed in said bore in contact with the other leg of said clip for rendering said spring means effective and movable manually out of said bore to release said cable from said clip for rendering said spring means ineffective.

2,666,506

BRAKE HEAD BALANCING DEVICE

Fred E. Bachman, St. Louis, Mo., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

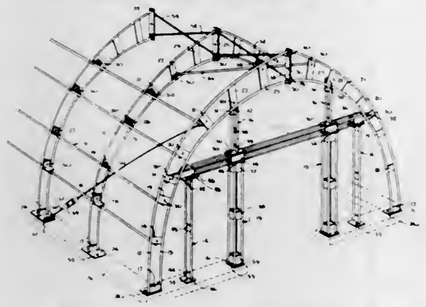
Application May 24, 1949, Serial No. 95,030
8 Claims. (Cl. 188—206)



8. A friction member for brake rigging comprising a body portion including a peripheral web adapted to embrace a portion of a brake hanger, said body portion having an opening accommodating mounting of said member on a

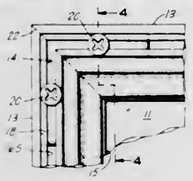
pivot element and rotation thereof on an axis extending transversely of said member, said body portion being provided with upper and lower arms at one side of said axis, a stop lug on said lower arm, and a spring pocket on said upper arm, said web being provided with a stop portion at the opposite side of said axis adapted to abut said hanger.

2,666,507
BUILDING STRUCTURE
Charles D. Ruark, Chase, Kans., assignor of fifty per cent to Ira D. Ruark, Chase, Kans.
Application October 21, 1949, Serial No. 122,635
3 Claims. (Cl. 189—2)



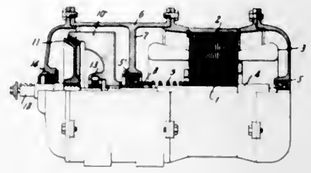
1. A skeleton building framework including transverse truss-like arch members disposed in spaced parallel vertical planes, X-brace rods disposed in a substantially vertical plane and connecting the upper central portions of each adjacent pair of arch members at vertically spaced points; and X-brace rods disposed in a substantially horizontal plane and beneath the first mentioned X-brace rods also connecting the upper portions of each adjacent pair of arch members at points spaced laterally of the respective centers thereof, said second mentioned X-brace rods crossing one another substantially in the vertical plane in which said first mentioned X-braces lie.

2,666,508
WINDOW SASH FRAME STRUCTURE
Michael J. Nardulli, Elmwood Park, Ill., assignor to Michael J. Nardulli, Angelo F. Naples, and Peter F. Nardulli, as trustees, and known as Western Engineering Trust
Application August 10, 1949, Serial No. 109,470
4 Claims. (Cl. 189—76)



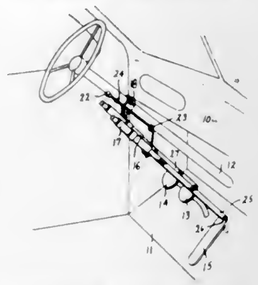
3. In a frame, a plurality of metal side frame members having mitered ends and of similar cross section affording an undercut groove opening through one side face of each member and having its open side defined by overhanging ledges, corner brackets extended into said undercut grooves from the mitered ends of said members, and headed securing screws extended through the open sides of said undercut grooves and threaded into said corner brackets to engage said ledges to interlock said corner brackets against endwise displacement of said brackets with relation to said frame members, said ledges having the surfaces that are clampingly engaged by said screw heads and said brackets respectively disposed in parallel planes.

2,666,509
ELECTRIC MOTOR WITH BUILT-IN FLYWHEEL AND CLUTCH
Walter Jaggi, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland, a joint stock company
Application January 7, 1952, Serial No. 265,269
Claims priority, application Switzerland January 11, 1951
3 Claims. (Cl. 192—.02)



1. An electric motor comprising a housing and within said housing a conical stator and a complementary conical armature having an armature shaft, bearings supporting said shaft for rotation and for axial displacement, a flywheel on said shaft and constituting one element of a clutch, a complementary clutch element on a stub shaft, spring means yieldingly opposing engagement of said clutch elements, stator field windings for establishing a magnetic field to exert on said armature a torque to set the same into rotation and an axially directed force tending to engage said clutch elements, and switch means associated with said field windings and adjustable between alternative positions to energize said field windings to develop torques in the same sense of different magnitudes and axially directed forces of correspondingly different magnitudes respectively above and below the magnitude of the restraining force of said spring means.

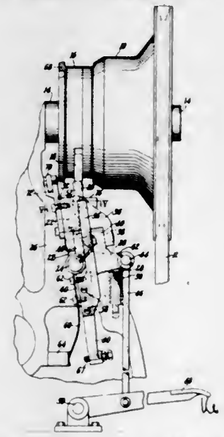
2,666,510
ADJUSTABLE GOVERNOR FOR ACCELERATORS
Stephen S. Pokorny, Maquoketa, Iowa
Application September 14, 1951, Serial No. 246,613
5 Claims. (Cl. 192—3)



2. In an adjustable governor for accelerators on vehicles having accelerator and brake pedals, a frame adapted to being secured to a vehicle, pair of rods slidably mounted in said frame and being adjacent to each other at at least one point of each of their respective lengths, a hinge secured by one of its sides to said frame at a point

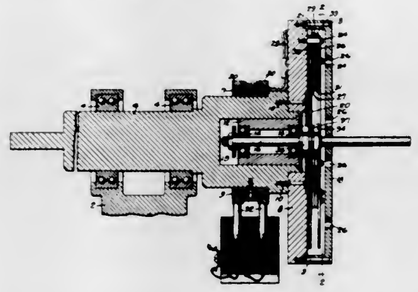
adjacent to the point on said rods where they are adjacent to each other; the free side of said hinge when moved hingedly upwardly engaging at least one of said rods at an angle whereby further movement of said one rod after it engages said hinge free edge is restricted by the wedging action of said hinge, means for securing said one rod to the accelerator pedal of a vehicle, means for securing the other of said rods to the brake pedal on a vehicle, a manual means for hingedly moving the free side of said hinge upwardly and into contact with said one rod, and means on the other of said rods for engaging said hinge to push it away from said one rod.

2,666,511
CLUTCH CONTROL MECHANISM
Andrew Eppler, Jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 8, 1951, Serial No. 245,720
1 Claim. (Cl. 192—22)



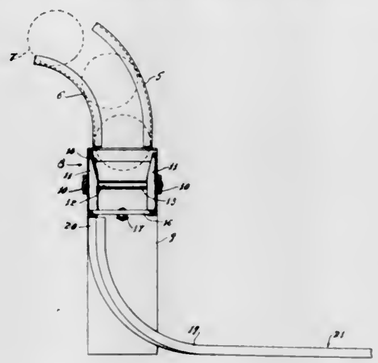
In combination with a self-engaging rotary clutch having a driving member, a driven member, and an arm associated with the driven member for disengaging the clutch, control mechanism comprising a holding lever having a shoulder normal to its path of movement, means for yieldably maintaining the holding lever in a stopped position of engagement with the disengaging arm to hold the clutch disengaged, a fulcrum pin for said holding lever having its axis extending in a direction transverse to that of the axis of the clutch, a latch engageable with the shoulder of the holding lever to withdraw the holding lever from the disengaging arm and thereby enable the clutch to engage, a tripping lever fulcrumed on said fulcrum pin, said latch being pivotally mounted on the tripping lever for swinging movement relative thereto about an axis extending in a direction normal to that of the fulcrum pin, means for yieldably holding the latch in a position relative to the tripping lever wherein the latch can engage said shoulder, means for yieldably holding the tripping lever in a normal position wherein the latch is out of operative engagement with the shoulder, thereby permitting the holding lever to maintain its said stopped position, treadle connections for swinging the tripping lever and with it the latch to move the latch against the shoulder and thereby withdraw the holding lever from the disengaging arm to permit engagement of the clutch, a cam on the driven clutch member, and means operated by the cam for swinging the latch about its pivotal mounting to clear said shoulder, thereby releasing the holding lever from treadle control and enabling it to resume its stopped position in the path of rotation of the disengaging arm, in which position it will engage the disengaging arm at the completion of a revolution and cause the clutch to disengage.

2,666,512
CRYSTAL CONTROLLED CLUTCH
Ernest O. Codier, Takoma Park, Md., assignor to the United States of America as represented by the Secretary of the Army
Application November 27, 1950, Serial No. 197,815
13 Claims. (Cl. 192—82)



1. A force transmitting device comprising a rotatable driving member, a rotatable driven member, piezoelectric means including fastening means rotatable with said driving member, disc means rotatable with said driven member closely spaced from said piezoelectric means and means for applying a voltage to the said piezoelectric means whereby the said piezoelectric means contorts from a normal position and engages the said disc means and the said driving member and the said driven member rotate together.

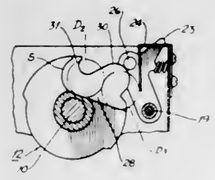
2,666,513
LINE DIVIDING MECHANISM FOR CONVEYERS
Russel S. Dart, Middle Haddam, Conn.
Application August 23, 1950, Serial No. 180,967
11 Claims. (Cl. 193—39)



1. An article conveyor including a conveyor track on which a line of said articles is conveyed, a plurality of separate tracks continuing from

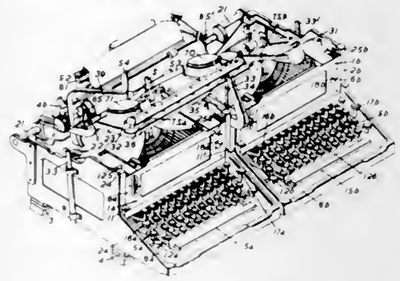
said conveyor track and a dividing mechanism between said conveyor track and separate tracks; the said mechanism comprising opposite pairs of opposed switching members, switching surfaces on said members for engaging diagonally opposite portions of an article passing through said dividing mechanism to cause rotation of the said article into registering position with one of said separate tracks, cam surfaces on said switching members engageable by said article for shifting said switching members into position to be engaged by a succeeding article for rotating said article into registering position with another of said separate tracks, and means for interconnecting the said shifting members of each pair to cause reversal of their relative positions as they are operated by said articles.

2,666,514
COIN-CONTROLLED ACTUATOR
Wilson Marks Stewart, Ottawa, Ontario, Canada
Application September 22, 1950, Serial No. 186,135
2 Claims. (Cl. 194—61)



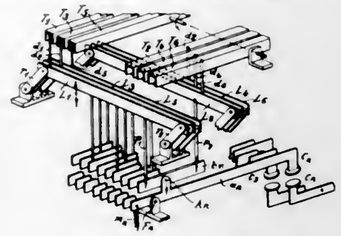
1. In a coin controlled actuator of the type adapted to actuate upon insertion in a single coin slot of two or more similar coins, and comprising a frame, a rotatable shaft mounted for rotation in said frame, a coin cam secured to said shaft, and a dog biased to ride on a cam track on said coin cam and limit rotation of said coin cam and shaft when correct coinage is not present in slots formed in said coin cam to receive the same, the improvement which consists in; a coin slot formed in said coin cam open to the periphery of said coin cam along its entire length and arranged to receive and hold edge to edge a predetermined number greater than one of coins fed to it by gravity from a coin chute situated thereabove; fixed stop means mounted on said frame in alignment with said coin slot and arranged to contact and support the first coin received in said coin slot whereby said predetermined number of coins are held in said coin slot after being fed thereto until actuation of said actuator moves said coin slot free of said stop; said coin slot and stop being arranged so that all save the last of said predetermined number of coins are entirely beneath said cam track; and a cut-away portion on said cam track formed with a locking shoulder at one end thereof in such position that the last coin of said predetermined number of coins to enter said coin slot projects its edge within said cutaway portion to an extent corresponding to the depth of said locking shoulder; said dog being positioned to ride said cam track within said cutaway portion to contact said locking shoulder and prevent operation of said actuator when all of said predetermined number of coins are not present in said coin slot, and to ride over the projecting edge of said last coin and past said locking shoulder to permit operation of said actuator when all of said predetermined number of coins are present within said coin slot.

2,666,515
PLURAL KEYBOARD TYPEWRITING MACHINE
Claude Wellington Brumhill, Leicester, and Arthur Pateman, Rothley, England, assignors to The Imperial Typewriter Company Limited, Leicester, England
Application December 19, 1950, Serial No. 201,638
Claims priority, application Great Britain December 20, 1949
8 Claims. (Cl. 197—5)



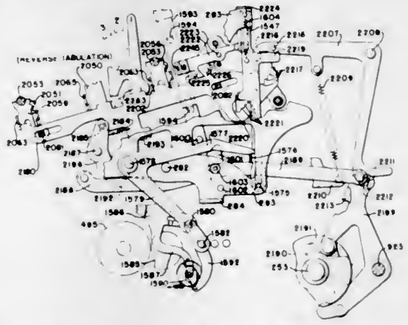
1. A typewriting machine comprising a plurality of keyboard-units each having keys, an escapement-operating element, type bars and type-bar mechanism connecting said keys to said escapement-operating element and said type bars; a continuous guideway extending across all the keyboard-units, a carriage slidable along said guideway, latching means for holding said carriage stationary on said guideway opposite any of said keyboard-units, an escapement mechanism on said carriage, a platen carrier slidable along said carriage under control of said escapement mechanism and having a rotatable platen thereon, and a control connection on said carriage associating said escapement mechanism with the escapement-operating element of the particular keyboard-unit opposite which the said carriage is held stationary.

2,666,516
PERMUTATIVELY OPERABLE KEYBOARD AND CHARACTER SELECTING MECHANISM FOR WRITING MACHINES
Alessandro Boni, Rome, Italy
Application March 9, 1950, Serial No. 148,597
Claims priority, application Italy April 1, 1949
4 Claims. (Cl. 197—11)



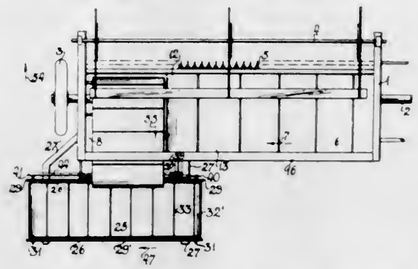
2. A rapid keyboard particularly for writing machines, comprising in combination a first series of keys operable by the right hand, a second series of keys symmetric to the first one operable by the left hand, a plurality of characters to be printed and indirectly controlled by said keys, a plurality of rocking levers, one for each of said characters, each said rocking lever being pivoted at a point between the two ends thereof, a plurality of cross levers each articulatedly supported at the two ends by two cranks of equal length to lift and lower parallel to itself, and connected at one side to one of the right hand or left hand keys and at the other side to one of the ends of a group of rocking levers of said plurality of rocking levers, and an amplifying rocking lever connected to each of said first mentioned rocking levers at the pivoting point of the latter, said amplifying rocking lever being adapted to directly cause the printing of the character when the pivoting point of the rocking lever first mentioned makes its complete displacement owing to the combined action exerted upon its ends by the right hand key and the left hand key to which the said ends are respectively connected.

2,666,517
TABULATING MECHANISM FOR ACCOUNTING MACHINES
Raymond A. Christian, Jesse R. Ganger, James H. Crawford and Herbert C. Johnson, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Original application December 6, 1947, Serial No. 790,032. Divided and this application November 16, 1950, Serial No. 195,982
22 Claims. (Cl. 197—177)



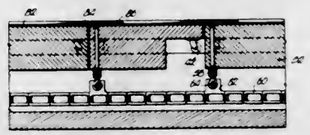
1. In a machine of the class described having a frame and a traveling carriage adapted for movement in one direction or another back and forth across said frame, the combination of means for resiliently urging said carriage to move in said one direction across said frame; normally effective means for restraining the movement of said carriage in said one direction; a series of graduated stop members on said carriage; a member slidably mounted on said frame for movement in the same direction as said traveling carriage, said member having a normal position and a moved position and being yieldably urged to move from said normal position to said moved position; means for releasably holding said member in its normal position; an abutment arm pivotally mounted on said member, said arm being adjustable from a normal or ineffective position, where it lies out of the path of movement of said stop members, into any one of a plurality of effective positions, where it lies in the path of selected ones of said graduated stop members; and means for operatively connecting said slidable member with said restraining means so as to cause said latter means to be rendered ineffective when said member is released from said holding means and allowed to move from its normal position to its moved position, and to cause said restraining means to again be rendered effective when said member is restored to its normal position as a result of the action of the stop members striking against said abutment arm.

2,666,518
REVERSIBLY DRIVEN SWATHER ATTACHMENT
John Page, Jr., Glidden, Saskatchewan, Canada
Application March 30, 1950, Serial No. 152,821
2 Claims. (Cl. 198—102)



1. A conveyor attachment for swathers and the like, said swather including a conventional main conveyor platform or table and transfer conveyor at right angles thereto, said transfer conveyor including a pair of rollers, an endless canvas rotatable thereon, means for driving one of said rollers, the forward portion of said transfer conveyor spanning one end of said main conveyor table, the rear portion of said transfer conveyor curving upwardly and rearwardly from the rear edge of said main conveyor table, a swath-laying conveyor at the rear of said swather substantially parallel to said main conveyor table, the rear end of said transfer conveyor being mounted upon the supporting structure of said swath-laying conveyor and overlying said swath-laying conveyor thereby permitting cut grain to be transferred from said main conveyor table and deposited upon said swath-laying conveyor, said swath-laying conveyor including a pair of supporting members extending rearwardly from the main frame of said swathing assembly, a substantially rectangular framework supported by said members, a pair of rollers mounted for rotation within said framework, an endless canvas extending around said rollers, means for driving one of said rollers, said swath-laying conveyor being capable of selective reversible movement, and means to provide said selective reversible movement.

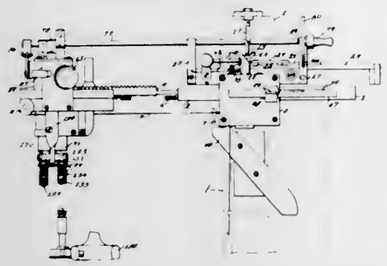
2,666,519
FOOD SERVING CONVEYER
Arthur A. Boots, Columbia, Mo., assignor to Cafa-Roll, Inc., Carthage, Mo., a corporation
Application June 7, 1950, Serial No. 166,677
2 Claims. (Cl. 198—181)



1. In a food serving system, a continuous, horizontal track having a pair of opposed, straight side stretches and a pair of opposed, arcuate end stretches; a series of mobile carriages resting upon said track for movement in procession in one direction therearound, each carriage having a leading end and a trailing end; a conveyor underlying the track; a single tongue and an elongated fin depending from and attached to each carriage respectively, the tongues being pivotally secured to the carriages adjacent the lead-

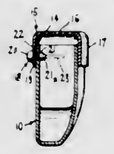
ing end thereof, said tongues being connected with said conveyor at spaced intervals on the latter; means presenting a guide slot for the fins coextensive in length with each of said straight side stretches respectively; and resilient means yieldably joining the trailing end of each carriage respectively with the leading end of the carriage next following, for limiting the trailing ends of the carriages against excessive swinging movement as the carriages proceed around the arcuate end stretches of said track.

2,666,520
CENTERING AND QUADDING DEVICE
Thomas H. English, Atlanta, Ga.
Application July 19, 1948, Serial No. 39,505
14 Claims. (Cl. 199—50)



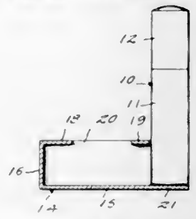
1. In a line assembling and type casting machine in which a line of assembled type is held in a vise during the casting operation, vice closing means comprising movable jaws, driving means attached to the jaws to move them relative to one another, a detent adapted to lock the driving means to prevent movement of the jaws, a shiftable trip, carried by the elevator of the type casting machine, for releasing the detent, a guide mechanically linked to the assembler and operated thereby, said guide connected to the trip to position the trip to release the detent when a short line is assembled and to position the trip to leave the detent in effect when a normal line is assembled and a brake engaging the guide to hold it in the position fixed by the guide until casting of the assembled line is completed.

2,666,521
IMPROVEMENT IN CASES
Joseph V. Miller, Auburn, and Robert C. Reed, Sturbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application December 6, 1951, Serial No. 260,142
6 Claims. (Cl. 206—6)



4. A spectacle case of the character described comprising a plural-sided pouch of size and shape to seat a pair of spectacles and having an open mouth through which the spectacles may be inserted, a separate cover having a top portion shaped to fit over said open mouth of the pouch and having an angular disposed continuous peripheral flange to overlie the marginal portion of the sides of the pouch about said mouth, one of the sides of said pouch having a pair of spaced openings in said marginal portion thereof, the adjacent portion of the flange overlying said marginal portion having apertures therein aligned with said spaced openings, and a pair of resilient members having a central body portion extending through said aligned apertures and openings, and terminating in enlarged end portions having a substantially flat surface overlying the outwardly related surfaces of the flange and marginal portion of the pouch about the said respective aperture and opening to maintain the cover and pouch in hingedly connected relation, and said central body portion of the resilient member between said enlarged end portions having a normal length substantially equal to the separation of said outwardly related surfaces when the cover and pouch are in closed relation whereby the resilient member will be stretched temporarily on swinging of the cover to an open position and will on release of the cover function to resiliently urge it to return into closed relation with said mouth of the pouch.

2,666,522
COMBINED CIGARETTE LIGHTER AND ASH TRAY
James H. Herman, Jr., Austin, Tex.
Application November 3, 1950, Serial No. 193,923
3 Claims. (Cl. 206—38)

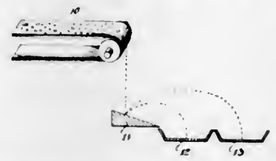


1. The combination of a cigarette lighter having a base, a combined casing and ash receptacle having top, bottom and side walls, and one end wall, the other end being open, and having an opening in said top wall, said lighter being positioned in said casing through said open end and removable therefrom, a lip having substantially the same dimensions as the bottom of said lighter extending from only said bottom wall adjacent the open end of said casing a substantial distance beyond the end of said top wall in the plane of said bottom wall, said lighter being adapted to seat on said lip when removed from said casing, and magnetic means for holding said lighter bottom and said lip in connected relation to hold said lighter in upright position against the open end of said casing.

2,666,523
PACKAGING METHOD
Edward J. Ryan, Elizabeth, N. J., and William C. Van Siclen, Douglaston, N. Y., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 1, 1951, Serial No. 254,446
11 Claims. (Cl. 206—84)

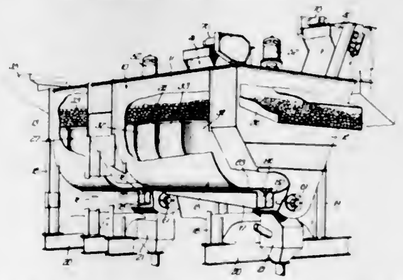
9. A package which consists of a container coated on the surfaces and edges with a thin, protective polyvinyl ether resin film, and a tacky, cold flowing synthetic isobutylene containing polymer contained therein, the polymer being substantially non-compatible with said protective film and being in contact with the container only at the surfaces having said protective film.

2,666,524
PROCESS FOR SEPARATING GEL PARTICLES
John W. Payne, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application January 31, 1952, Serial No. 269,161
6 Claims. (Cl. 209—119)



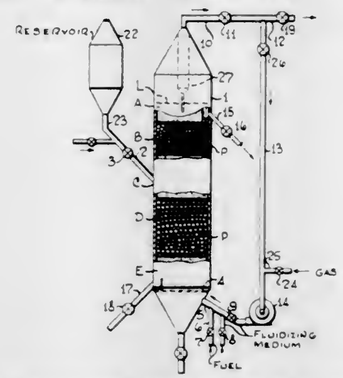
1. A method for separating a mixture of whole and broken spheroidal bead-like gel particles, each of which is characterized by a substantially identical degree of hardness, which comprises dropping a mixture of said particles from a predetermined height onto an inclined base of sufficient hardness as to cause the particles to rebound and collecting the particles of lesser trajectory in one receptacle and the particles of greater trajectory in a second receptacle.

2,666,525
WASH BOX HUTCH DRAW-OFF
Robert Lee Pate, Pittsburg, Kans., assignor to The McNally-Pittsburg Manufacturing Corporation, Pittsburg, Kans., a corporation of Kansas
Application January 4, 1951, Serial No. 204,323
4 Claims. (Cl. 209—457)



1. In a device of the character described, the combination with a tank, of a screen in the tank extending longitudinally and supporting coal or the like to be treated, means for periodically pulsating jigging liquid within the tank to cause back and forth surging motion of the liquid transversely of the tank, whereby the liquid will periodically pass through the screen to stratify the material thereon, a trough in the bottom of the tank below the screen and extending longitudinally in a direction parallel with the travel of the material through the tank, said trough having a bottom wall sloping in a downward direction from the entrance end of the tank toward the delivery end thereof, a splitter plate located substantially centrally for the length of the trough and having a height greater than the depth of the trough, a perpendicular top plate supported by the splitter plate and extending horizontally for the length of the splitter plate, and said top plate projecting on respective sides of the splitter plate for substantially the full width of the trough, whereby said plate structure transforms the surging motion of the jigging liquid into movement longitudinally within the trough to propel the hutch material collected within the trough to a discharge point.

2,666,526
PROCESS AND APPARATUS FOR SEPARATING MIXED MATERIALS
William W. Odell, New York, N. Y., and George L. Matheson, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application February 2, 1951, Serial No. 209,118
8 Claims. (Cl. 209—474)



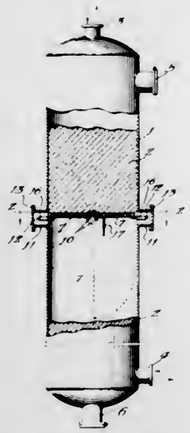
1. A continuous process of separating a mixture of finely divided solids containing particles of different sizes and densities, which comprises providing an elongated vertical separation zone, providing two vertically spaced beds of fixed solids of a size substantially larger than the largest of the said mixture of said finely divided solids, the last named solids being so disposed and arranged as to provide a plurality of interstitial spaces between them of dimensions such that said finely divided solids can be fluidized therein, the vertical space between said beds of fixed solids providing a zone where the finely divided solids can be freely fluidized continuously feeding said particles of finely divided material to said free fluidizing zone intermediate the said beds of larger sized solids, causing a gasiform material to flow upwardly through said elongated separation zone at a velocity of about 0.3 to 4.0 feet per second to cause turbulent fluidization in said free fluidizing zone, to maintain the particles of finely divided material in the form of a dense fluidized mass in the interstitial spaces of said bed of solids without causing fluidization of said substantially larger sized solids, and to permit particles of greater buoyancy to pass upwardly from said free fluidizing zone through said separation zone and to permit particles of less buoyancy to pass downwardly, continuously withdrawing finely divided particles of greater buoyancy from an upper portion of said separation zone and continuously withdrawing particles of less buoyancy from a lower point in said separation zone.

2,666,527
METHOD OF PROMOTING FILTRATION
C. Lynn Peterson, Salt Lake City, Utah, assignor to Peterson Filters and Engineering Company, Salt Lake City, Utah, a corporation of Utah
No Drawing. Application June 22, 1945, Serial No. 601,079
1 Claim. (Cl. 210—62)

The method for treating an alkaline aqueous ore pulp which includes the steps of mixing one part amine chloride with four parts sorbitan monolaurate, adding approximately three-quarters of a pound of the resulting mixture per ton of ore carried in the pulp, agitating the pulp and

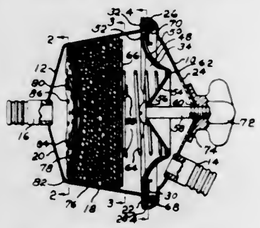
then mechanically filtering the pulp whereby the capillary pressure of the water in capillary channels formed between the ore particles is reduced.

2,666,528
TREATING CHAMBER
Walter N. Frandsen, Wichita Falls, Tex., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application March 26, 1949, Serial No. 83,641
2 Claims. (Cl. 210—131)



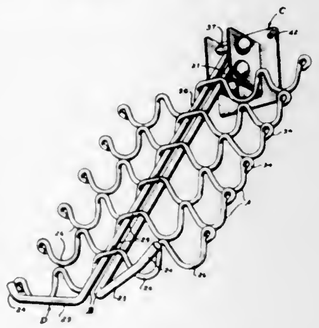
1. In a treating chamber adapted to contain a bed of solid material, the combination of a perforated supporting deck extending horizontally across said chamber and comprising unconnected and unhinged sections having their abutting portions supported on horizontally projecting pins each releasably engaged with a fixed bearing member mounted in an access opening on the exterior wall of said chamber, a chain attached to each of said deck sections and the wall of the chamber to permit the deck sections to hang along the chamber wall upon release of said pins.

2,666,529
FILTER
William G. Landwier, Fayetteville, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application July 18, 1950, Serial No. 174,397
2 Claims. (Cl. 210—185)



1. A filter for domestic water supply for laundry purposes comprising a casing having a tapered wall and an outlet end wall at the reduced diameter end of said wall, an arched perforate plate seated against said end wall, woven fabric filter disks of a diameter to assure marginal edge contact with said tapered wall stacked against said plate, a pressure plate resting on the stack of filter disks, an inwardly directed flange at the enlarged diameter end of said wall, a removable diaphragm member supported behind and upon said flange, said diaphragm and flange having inter-engaging bayonet-like projections whereby to facilitate removal of said diaphragm past said flange, a seal ring positioned on said flange, an inlet cover bearing through said sealing means upon the outer marginal edge of said flange, means for drawing the diaphragm member and cover together to secure the cover in place, and a coil compression spring secured to said pressure plate and bearing against said diaphragm, said pressure plate being adapted to compress said filter material lying between said pressure plate and said arched plate axially of the tapered wall casing, and said casing and tapered wall forming the sole passage for flow of liquid from the inlet cover to the outlet end wall, whereby liquid flow is in a direction axial of the tapered wall casing toward the reduced diameter end thereof and from the pressure plate to the arch plate.

2,666,530
NECKTIE RACK
Irvin B. Beren, Dallas, Tex.
Application December 7, 1950, Serial No. 199,651
2 Claims. (Cl. 211—99)

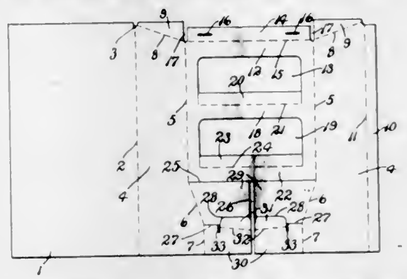


1. A necktie rack comprising, a housing including an upright base for mounting on a wall and outwardly extending spaced apart side members carrying a pivot extending laterally between them, a longitudinal support comprising parallel rod members having loops at their upper ends providing longitudinal slots engaging said laterally extending pivot so as to hang downwardly therefrom in a pendant position, a stop member above said pivot between the side members engageable with the outer side portion of the upper slotted end of the longitudinal support when the support is swung to an inclined position and shoved upwardly behind the stop member, and crosswise necktie supporting arms carried by said longitudinal support.

2,666,531
COLLAPSIBLE FLOOR DISPLAY STAND
Wilbur G. Anderson, Jr., Grand Rapids, Mich., assignor to American Box Board Company, Grand Rapids, Mich., a corporation of Michigan
Application July 24, 1950, Serial No. 175,615
2 Claims. (Cl. 211—135)

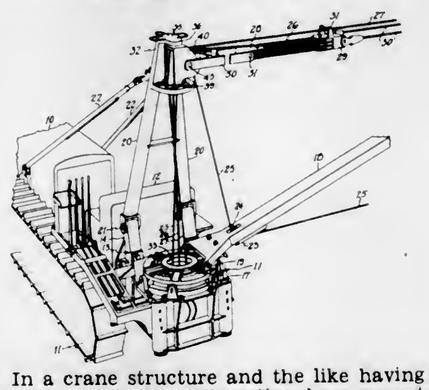
1. A case body made from a single generally rectangular sheet of paper board material having, a vertical back, a vertical end integrally and foldably connected with the back to fold on a vertical axis, a front spaced from and generally

parallel to the back integral with said end at one vertical edge of the front, there being vertical lines for folding between one edge of the front and the other edge of said end, a second end at the opposite side of the front integral therewith, there being a generally vertical line of folding between said second end and the adjacent edge of the front, and a narrow vertical flap at the outer edge of said last mentioned end, there being a vertical line of folding at its connection with said last end, said flap overlapping the free edge of the back end having a permanent con-



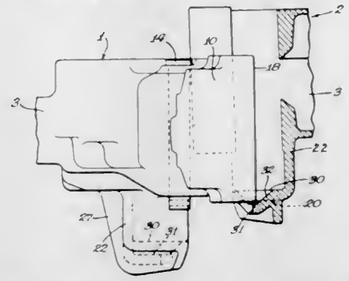
nection thereto, said front in its upper portion having spaced horizontal openings therethrough, the uppermost below the upper end of said front, said front below the lowermost of said openings having a horizontal cut therethrough for the full width of the front, and a vertical slot from the lower end of the front to said horizontal cut midway between the sides of the front, and the front below said horizontal cut having an additional horizontal cut to divide the lower portion of the front into four sections, each at its outer end integrally connected with a front edge portion of a side of the body.

2,666,532
FAIR-LEAD
Robert C. Shoemaker, Portland, Oreg., assignor to Hyster Company, Portland, Oreg., a corporation of Oregon
Application December 9, 1950, Serial No. 200,035
5 Claims. (Cl. 212—70)



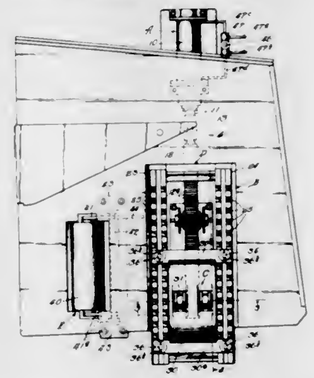
2. In a crane structure and the like having a mast and a boom; a supporting base mounted on the mast having a cable opening and bearing means, a masthead fair-lead disposed above said cable opening, said fair-lead comprising a housing rotatably mounted in said bearing means for rotation about a turning axis in said bearing means passing through said cable opening, a horizontal shaft in said housing, a sheave on said shaft adapted to guide a boom suspension cable in alignment with said turning axis, additional sheaves on said shaft adapted to guide additional cables through said cable opening adjacent said boom suspension cable, whereby said additional cables impose a turning moment on said housing about said axis, and an arm on said housing adapted to be tensioned by said boom suspension cable to turn the fair-lead in the direction of the boom.

2,666,533
RAILWAY CAR COUPLER HAVING MEANS TO PREVENT VERTICAL DISENGAGEMENT
Frank H. Kayler, Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application February 21, 1951, Serial No. 212,110
15 Claims. (Cl. 213—153)



1. A railway coupler head comprising knuckle pivot means and a guard arm, said head having a throat between the pivot means and guard arm, and a shelf carried by said head beneath the level of the guard arm and throat and projecting forwardly of the throat, said shelf comprising a rib depending therefrom and extending diagonally across the vertical center plane of the head beneath the mid point of the throat.

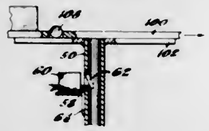
2,666,534
AUTOMATIC AIR OPERATED BAR TURNER
Leonard C. Pietsch, Gary, Ind., assignor to Inland Steel Company, a corporation of Delaware
Application August 20, 1948, Serial No. 45,378
7 Claims. (Cl. 214—1)



7. An automatic bar turner, comprising: a frame having a generally horizontal upper surface with at least one notch therein; a housing mounted on the upper surface of the frame and having a portion to be received in said notch for seating the housing on said upper surface; a drum

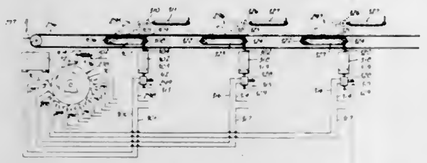
rotatably mounted in said housing and carrying a bar turning member for receiving a bar, said member having a rectangular opening with one corner of the opening being substantially coincidental with the axis of rotation of the drum; peripheral teeth on said drum; a motor powered rack in mesh with the drum teeth for rotating the drum; and motor actuating means responsive to passage of a bar through the bar turning member to initiate turning of the drum about its axis and turning of the bar about one corner thereof.

2,666,535
SORTING SYSTEM
Arthur F. Dooley, Salem, Mass., assignor to Jordan Marsh Company, Boston, Mass., a corporation of Massachusetts
Application August 20, 1949, Serial No. 111,471
4 Claims. (Cl. 214—11)



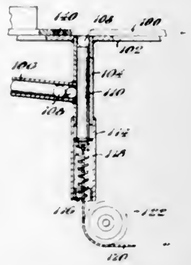
1. A sorting conveyor comprising a single endless package-carrying belt, a plate supporting one run of said belt, a plurality of package discharging means associated with said belt, an actuating switch operatively connected with each of said discharging means, said plate having a hole at the location of each of said discharging means, said holes being laterally offset with respect to each other, a plurality of spaced rows of holes in said belt, each of said switches having a control member disposed beneath one of said holes in said plate, whereby a missile may be placed in a selected one of said belt holes to travel across said plate until it encounters a predetermined one of said holes in said plate and thereupon drop upon and actuate one of said switch control members.

2,666,536
SORTER CONTROL DEVICE
Robert L. Smith, Tacoma, Wash., assignor to Plywood Research Foundation, Tacoma, Wash., a corporation of Washington
Application February 11, 1950, Serial No. 143,700
3 Claims. (Cl. 214—11)



1. In combination in an apparatus of the type described, an in-feeding conveyor, off-bearing sorter means including a plurality of electrically controlled power means for selectively operating said sorter means, a plurality of actuating circuits each connected to control one of said power means and each including an actuating switch, a plurality of time delay devices each arranged to operate one of said actuating switches and each provided with an electro-responsive actuator, an endless movable control member synchronized with said in-feeding conveyor, said control member including a plurality of actuating dogs equally spaced therealong and each selectively movable between an active and an inactive position, a first control switch positioned adjacent said movable control member and arranged to be actuated successively by each of said dogs as said control member is moved, a second control switch positioned adjacent said movable control member and arranged to be actuated successively by only such of said dogs as are in said second position, a resettable stepper switch, means controlled by said first control switch for actuating said stepper switch to count the passage of said dogs, and means controlled by said second control switch for simultaneously resetting said stepper switch and energizing a selected one of the electro-responsive actuators of said time delay devices in accordance with the count of said stepper switch at the time said second control switch is actuated.

2,666,537
SORTING SYSTEM
Arthur F. Dooley, Manchester, Mass., assignor to Jordan Marsh Company, Boston, Mass., a corporation of Massachusetts
Application May 24, 1951, Serial No. 228,059
2 Claims. (Cl. 214—11)

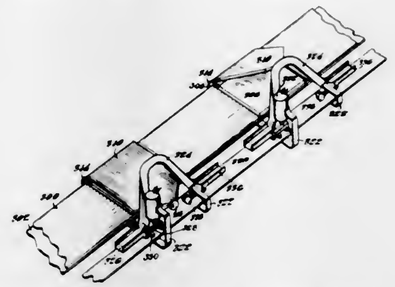


1. A sorting apparatus comprising a package conveyor, a plurality of package removers disposed at spaced intervals along the conveyor, a plurality of members forming longitudinal channels disposed beneath the conveyor, objects adapted to be moved along said channels, a plurality of rows of downwardly extending wipers secured at spaced intervals to said conveyor and disposed so that the wipers move in said channels, and independent means for actuating each package remover, each actuating means being disposed adjacent one of said removers and beneath said conveyor, each of said actuating means being responsive to one of said objects caused to move along one of said channels by one of said wipers.

2,666,538
SORTING SYSTEM
Arthur F. Dooley, Manchester, Mass., assignor to Jordan Marsh Company, Boston, Mass., a corporation of Massachusetts
Original application August 20, 1949, Serial No. 111,471. Divided and this application May 24, 1951, Serial No. 228,060
5 Claims. (Cl. 214—11)

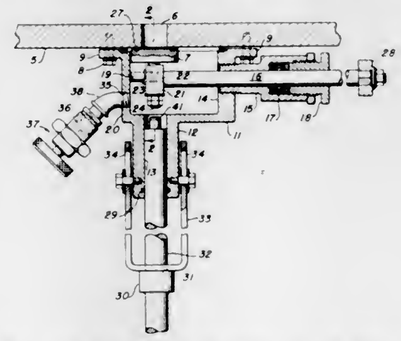
1. A sorting conveyor comprising an endless conveyor belt, means mounting said belt for movement through a predetermined path, a plurality of carrying means hinged to said belt, a plate supporting one run of said belt, a plurality of inclined tracks mounted in succession along the side of said plate, intercepting means mounted adjacent the forward ends of each of said tracks, means carried by said belt for selectively causing said intercepting means to be moved into position to intercept and engage said carrying means, said tracks being effective to

tilt said members upwardly and incline them with respect to said belt and means actuated by



movement of said carrying means along said intercepting means for moving said intercepting means to a nonintercepting position.

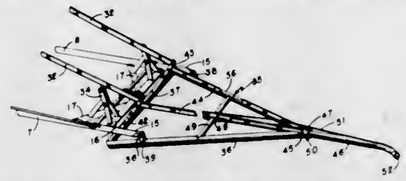
2,666,539
RAPID OPERATION AIR LOCK FOR CLOSED VESSELS
Robert T. Avery, Oakland, Calif., assignor to United States of America as represented by the United States Atomic Energy Commission
Application September 5, 1952, Serial No. 307,977
7 Claims. (Cl. 214—17)



1. Air lock apparatus adapted to be sealingly disposed across an aperture in the planar wall of a vacuum vessel for providing access to the interior thereof under a plurality of vacuum conditions, said apparatus comprising a generally rectangular open-sided housing, an elongated, tubular portion in said housing opposite said open side and in alignment with said wall aperture when said housing is in place, a closure plate for said wall aperture, and manually operable means extending through another wall of said housing and connected to said closure plate for moving the latter normally to said planar wall and into closed position across said wall aperture and for moving said closure plate normally away from said wall aperture and thereafter laterally thereof to provide complete unobstruction of the latter.

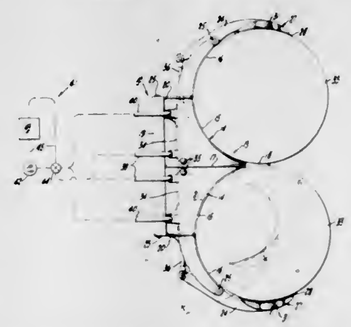
2,666,540
EXTENSION UNIT FOR TRACTOR OPERATED LOADING ATTACHMENTS
Gerald T. Baker, Fort Dodge, Iowa
Application September 19, 1951, Serial No. 247,209
4 Claims. (Cl. 214—149)

4. In combination in an extension unit for use with a tractor loading attachment including a pair of parallel longitudinally extending lifting arms and upwardly and rearwardly inclined lifting rods disposed above said lifting arms for cooperative movement therewith in response to the operation of associated hydraulic actuating cylinders, a triangular tubular framework pivotally secured to the outstanding ends of the lifting arms, said framework including a transverse base member engaging the undersides of the lifting



arms when said framework is in substantial longitudinal alignment with the lifting arms, latching means associated with the loading attachment and framework to releasably secure said framework to its longitudinally extended position, and members secured to and projecting upwardly from said base member of said framework, the lifting rods of the loading attachment being pivotally secured to the outstanding ends of said upwardly projecting members.

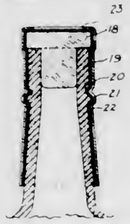
2,666,541
APPARATUS FOR LIFTING CYLINDRICAL OBJECTS
John J. Ferrario, San Francisco, and Joseph Dondero, San Anselmo, Calif.
Application January 6, 1950, Serial No. 137,218
1 Claim. (Cl. 214—655)



Lifting apparatus of the character described, comprising a pair of cylindrical plates arranged in side-by-side relationship and constituting a pair of fixed, inner jaws each adapted to encompass and grip one side of a roll of paper, a frame adapted to be mounted on the boom of a lift truck, spaced outer plates each extending between and fixed to the central portion of one of the cylindrical plates and to one side of the frame, a central, vertical plate disposed symmetrically between said cylindrical plates fixed at one end thereto and at the other end to said frame, a wedge-shaped shoe fixed to the outer end of said central plate and to the adjacent ends of said cylindrical plates, a pair of spaced, horizontal brackets supported rearwardly of each said cylindrical plate, an arm mounted on a vertical fulcrum between each pair of horizontal brackets, a shoe pivotally mounted at the outer end of each said arm adapted to encompass and grip the opposite side of a roll of paper, a double-acting hydraulic cylinder pivotally

mounted between each pair of horizontal brackets, and means operatively connecting each said cylinder with an arm to operate the latter.

2,666,542
ADHESIVE METAL FOIL, BOTTLE CAP THEREOF, AND METHOD
Charles S. Price, New York, N. Y.
Application May 24, 1948, Serial No. 28,787
17 Claims. (Cl. 215—38)

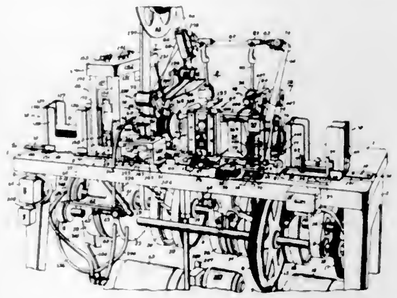


1. The method of making a substantially tamper-proof closure for a corked bottle, comprising cutting from foil one side of which is coated with heat-softening resin-type cement on top of which is a coating of remoistening glue, a sector of the proper size for fitting the top portion of a bottle neck, forming perforations along the short circumferential side of said sector to provide a tear strip of a width slightly more than the distance that the cork will project from the bottle neck, forming said sector as a hollow frusto-conical article by bending it around a correspondingly formed mandrel with the coated surface inside, with overlapping radial edge portions, with its small end extending beyond said mandrel, sealing together said overlapping edge portions, by means of a coating of cement or glue, bending the extended edge of the small end over the end of said mandrel providing an inturned flange to overlie the periphery of the projecting end of a cork in said bottle, applying said frusto-conical article over a corked bottle neck so that said inturned flange overlies the periphery of the cork, and crimping said frusto-conical article about said corked bottle neck, while employing only the adhesive on said article, exclusive of that on said tear strip, to seal it to said neck, thereby facilitating removal of said strip.

16. In combination, a bottle with generally frusto-conical beaded corked neck, a closure device in close sealing engagement therewith and comprising a disc of metal foil lying on the top of the cork, a sector of metal foil bent in hollow frusto-conical form enclosing the neck of said bottle, with an upper inner flange portion overlying said disc on said cork, said device having its inner surface carrying, first a dried film of a heat-softening resin selected from the group consisting of polyvinyl butyrals and phthalic anhydride-ethylene glycol resins, and a second coating on said first coating of a remoistening glue compatible with the film of heat-softening resin, and uniting radial edge portions of said sector which overlap, the disc to said sector, and the device to said neck.

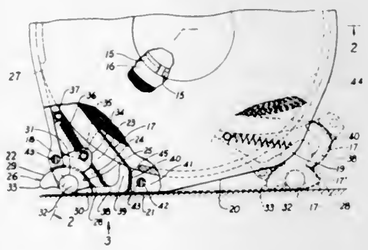
2,666,543
CARD PREPARING MACHINE
Edward K. Standish, Stoughton, Mass., assignor, by mesne assignments, to Filmsort Inc., a corporation of Delaware
Application February 26, 1948, Serial No. 11,055
28 Claims. (Cl. 216—25)

20. In a machine for mounting small units of photographic film within openings punched therefor in business machine cards or the like which cards are provided with transparent adhesive film for retaining the photographic film units in the opening, a punch, means for feeding a predetermined portion of a strip of photographic film underneath the punch, means for feeding cards synchronized with the film feeding means



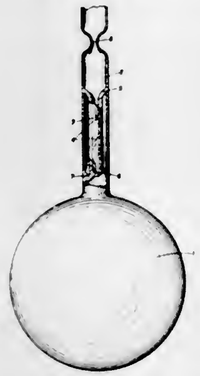
for positioning the respective card openings momentarily under the punch, means subsequently effective for operating the punch to cut out a predetermined portion of photographic film from the strip and press it into the card opening and against the adhesive film and means for ejecting the respective cards from the punch after each punching operation.

2,666,544
TAPE DISPENSER
Ho Chow, New York, N. Y.
Application July 28, 1952, Serial No. 301,335
7 Claims. (Cl. 216—33)



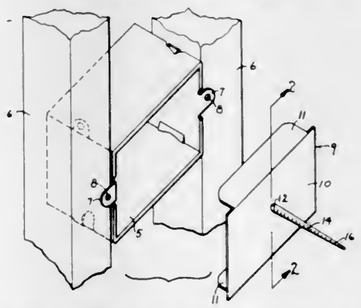
1. A tape dispenser comprising a casing open at one side, a cover detachable with and closing the open side of the casing, a hub portion within the casing for support of a spool of tape, the casing having spaced enlarged sections at the periphery thereof joined by a flat wall portion forming a supporting surface for the device when not in use, one of said sections being hollow and forming a nose section, the other section having a flat outer supporting surface, a block movably supported in said nose section, said block having a cutter normally contained within the nose section, the block having a protruding nose part normally extending from said nose section, the nose section of the casing having a slot adjacent the block, through which the end portion of a tape is adapted to pass, said nose section, between the slot and block, having a flat surface, and said block having a rounded surface in alignment with the flat surface and adapted to engage the tape in pressing the same in engagement with a supporting surface.

2,666,545
CONTAINER HAVING A DISTORTABLE FLOW CONTROL MEANS
John J. Hopfield, Bethesda, Md., assignor to the United States of America as represented by the Secretary of the Navy
Application May 20, 1949, Serial No. 94,454
5 Claims. (Cl. 220—2.2)



1. A one-piece gas container, made entirely of vitreous material capable of withstanding internal super-atmospheric pressure, said container having a tubular stem affording a passage thereinto, a valve likewise made of vitreous material located in said stem and completely enclosed thereby, said valve comprising a tube having a helicoidal crack therein that may be opened by forcible twisting of said tube, the inner end of said tube being sealed, and being fused to an adjacent portion of the tubular stem, the other end of said tube being open and sealed hermetically to the surrounding portion of the tubular stem, throughout the entire periphery of said tube, said valve being initially internally stressed in the sense to close the crack, whereby it may be opened by stressing it in the opposite sense by correspondingly twisting the tubular stem.

2,666,546
OUTLET BOX LOCATOR
Norman A. Reilly, Santa Ana, Calif.
Application April 17, 1951, Serial No. 221,442
1 Claim. (Cl. 220—3.4)



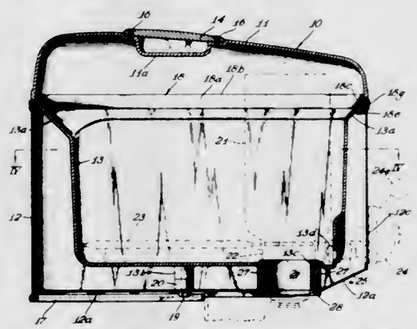
A closure and locator for an outlet box, comprising a flat plate, means on said plate for frictionally engaging said box to retain said plate as a closure therefor, and an elongated resiliently flexible rod-like member having one end secured to said plate substantially centrally thereof and extending outwardly therefrom and at right angles thereto to afford a finger grip, said member being sufficiently resiliently flexible so as to be capable of lying parallel to said plate in any direction from its secured end when subjected to lateral pressure and to spring back to its original position when released from pressure.

2,666,547
CASING, IN PARTICULAR LIGHTER CASING
Alfred Racek and Johann Raganitsch, Vienna, Austria
Application January 11, 1951, Serial No. 205,466
Claims priority, application Austria February 15, 1950
6 Claims. (Cl. 220—4)



1. A casing which comprises, in combination, a sheet metal body having front and back walls and integral bottom and narrow side walls, said front and back walls having inwardly stepped edge portions along said bottom and narrow side walls, and a frame open at one side embracing said bottom and narrow side walls and having flanged longitudinal margins seated in said stepped edge portions.

2,666,548
SPACED WALL CONTAINER
James K. Lund, Oak Park, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application April 9, 1949, Serial No. 86,430
4 Claims. (Cl. 220—15)

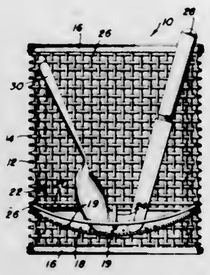


1. A dispenser cabinet, comprising, an insulatably lined casing having spaced inner and outer walls forming a compartment, a charging opening in said casing above said compartment, a snap-in resilient ring having laterally spaced grooves receiving said inner and outer walls and retaining same in nested spaced apart telescoped relation, said ring encircling said charging opening and having a buffer portion overlying said walls to cushion during charging of the compartment, an upstanding rib on said ring and a seating portion outwardly adjacent thereof, and a cover for said charging opening seated over said rib and on said seating portion of said ring.

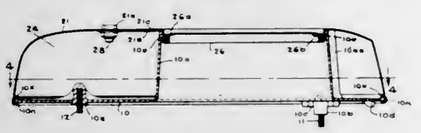
2,666,549
DRYING BASKET FOR SILVERWARE
James Q. Horne, Jr., Winsted, Conn.
Application December 27, 1949, Serial No. 135,168
3 Claims. (Cl. 220—19)

1. A basket for drying silverware comprising a foraminous receptacle including side walls and

a concavo-convex bottom with the concaved side uppermost to maintain the silverware in an upstanding position within the receptacle and to prevent slipping of the silverware therearound, the side walls of the receptacle projecting below the peripheral edges of the bottom and terminating in a plane below the central portion of the bottom, and a grid removably disposed in the receptacle and resting on the bottom, said grid being of concavo-convex configuration and being disposed in the same manner as the bottom to further maintain silverware in position within the receptacle.

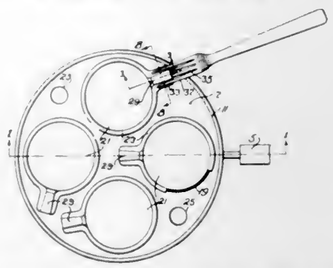


2,666,550
GAS TANK STRUCTURE
Daniel A. Armstrong, Thiensville, Wis., and Walter J. Raleigh, Roseville, Minn., assignors to Scott-Atwater Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Application August 5, 1948, Serial No. 42,598
1 Claim. (Cl. 220—67)



A gas tank for an outboard motor having in combination, a rigid bottom member of plate-like form having horizontal upper and lower surfaces and having an upstanding solid rib extending thereabout, said rib having a vertical outer surface, said member having a substantially horizontal surface extending outwardly from the bottom of said vertical surface and making substantially a right angle therewith, said member having a solid bead below said vertical surface substantially semi-circular in cross section and having its outer side extending to the outer end of said horizontal surface, a top member of inverted dish-like form made of flexible sheet material of much less thickness than said bottom member, the same having a portion bent closely adjacent and parallel to said vertical surface, closely adjacent and parallel to said horizontal surface and extending around said bead closely adjacent and parallel thereto and to said lower surface of said bottom member and a layer of nonhardening rubber cement disposed between and adhering to said top member and said vertical and horizontal surfaces and said bead, said top member being thus connected to said bottom member by said top member being so disposed.

2,666,551
EGG POACHER
Glenn C. Wyman, Rome, N. Y., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
Application January 13, 1949, Serial No. 70,734
4 Claims. (Cl. 220—94)

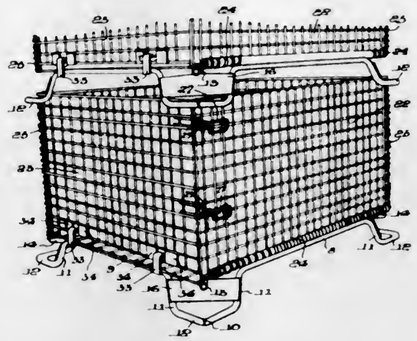


3. An egg poacher comprising an egg poaching cup and a part for removably supporting said cup for immersion in and removal from the poaching liquid adapted to restrain the cup substantially against lateral movement when it supports the cup; said cup being fixedly provided with a laterally projecting handle having a free end and elongated portions extending longitudinally thereof from such end for coacting with the tines of a table fork or the like having at least three tines, for adapting such fork, when the cup is so supported and restrained and such tines are presented endwise to said free end of said handle and the fork is pushed longitudinally of the handle toward the cup, to be removably secured to the handle for serving as a handle extension, said elongated longitudinally extending portions of the handle including a longitudinally extending groove opening on the free end of the handle and having a substantially flat bottom lying in one plane and side walls, lateral flanges integral with the sides of the walls of the said groove and offset from the bottom of the groove and having faces which face in the opposite direction from the bottom of the groove and lie in a common plane spaced from the plane of the bottom of the groove a distance substantially the thickness of the tines of a table fork, the width of the bottom of the groove being less than the width of a table fork, whereby the fork may be secured with at least one tine lying in the groove in contact with the bottom of the groove and one tine contacting said face of each flange.

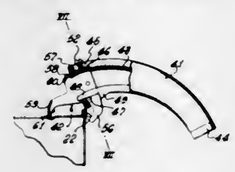
2,666,552
CRATE FOR USE WITH LIFT-FORK TRUCKS
Burton C. Coit, Jr., Washington, Pa., assignor to Tri-State Engineering Company, Washington, Pa., a corporation of Maryland
Application February 5, 1952, Serial No. 270,043
1 Claim. (Cl. 220—97)

A crate having vertical walls and a bottom wall therefor of rectangular form, an underframe to which the crate bottom wall is secured, the underframe containing bars respectively disposed adjacent to the four edges of the bottom wall for limited distances between its corners, and the bars at substantial distances from each corner of the bottom wall, extending downwardly and laterally outward, to form legs whose lower portions are disposed outwardly of the vertical planes of the adjacent crate walls, a cross plate bridging the legs and welded thereto flatwise intermediate their upper and lower ends, at each corner of the crate, in a diagonal direction, and

in position to support the corners of the underframe and to afford support on a corner of a crate upon which the base may be stacked, and horizontal extensions on the lower ends of the legs at each corner, extending at right angles to each other, along lines outwardly of the said vertical planes, and having their extremities united at a point horizontally beyond the adjacent crate corner.



2,666,553
CONTAINER-PIERCING LIQUID DISPENSER
George H. Tammi, Huntington Park, Calif.
Application September 3, 1949, Serial No. 113,993
5 Claims. (Cl. 222—90)



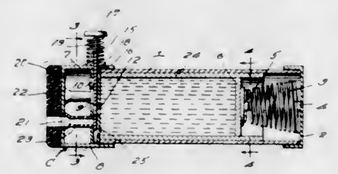
1. A combination container-piercing and fluid-dispensing device for use with sealed metal containers, comprising: a curved open-ended tubular spout provided with a removable cap at one end and having an internal shoulder adjacent the other end; and a container-piercing member carried by said spout, said member including a tubular rear portion received within the adjacent end of the spout in abutment against said shoulder, an upwardly directed claw depending from the rear portion and extending through a slot in said spout, said claw being adapted to engage a rim of a container to be opened; a downwardly turned, pointed, piercing portion having converging side walls spacing the pointed portion from the adjacent end of the spout and adapted to pierce the cover of a container to be opened; top and bottom ports defined by said side walls in said piercing portion and said rear portion for flow of fluid from a container into the spout; a seal ring surrounding the rear portion of the piercing member and seated against the adjacent annular edge of the spout, and a single outwardly and rearwardly facing detent integral with the piercing member opposite to said claw and adjacent the seal ring adapted to snap beneath the wall of a container to be opened for engagement with the inner surface of said wall, the engagement of said claw and said detent with a container being arranged to compress said seal ring and hold said spout in fluid-tight relationship with a container.

2,666,554
CONDIMENT DISTRIBUTER
George Murray, Eureka, Calif.
Application May 3, 1950, Serial No. 159,816
7 Claims. (Cl. 222—183)



1. A condiment distributer comprising the combination of a hollow base member and receptacle member having an open condiment chamber, said receptacle member wedged slidably in said base member, said base member surrounding a portion of said receptacle member and enclosing the open condiment chamber thereof, said receptacle member having dispensing apertures therein in communication with said condiment chamber and extending to one end of said receptacle member remote from said base member and communicating to atmosphere.

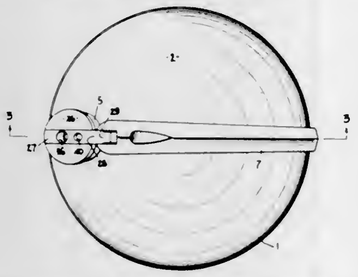
2,666,555
APPLICATOR FOR CREAM PREPARATIONS
Ralph L. Hill, Memphis, Tex.
Application June 16, 1950, Serial No. 168,599
1 Claim. (Cl. 222—340)



A dispensing device comprising a casing having an open forward end, a follower within the casing, means for pressing the follower against material within the casing and toward the open end of the casing, a cap detachably secured over the said open end of the casing, a partition plate within the cap overlying the open end of the casing when the cap is applied, said partition plate having a plurality of openings therethrough, a valve plate slidably overlying and covering the major portion of the inner face of the partition plate and having a plurality of openings therethrough for registry with the partition plate openings, said partition plate further having a short radial slot therein, an inner plate removably mounted in the cap and interposed between the valve plate and the open end of the casing, said inner plate having openings therethrough in line with the said openings of the partition plate, means normally urging movement of the valve plate to a position in which the openings thereof are out of registry with the openings of the partition plate and the inner plate, said means including a radial stem extending from an edge of the valve plate through the wall of the cap to the outside of the latter for shifting the valve plate to bring the openings thereof into registry with the openings of the partition and inner plates, a guide lug carried upon a face of the valve plate and slidably engaged in said radial slot for holding the valve plate against lateral movement, said cap including a forward end wall in spaced relation with said partition plate, and

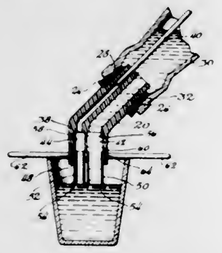
material discharge means including a plurality of tubes extending from the partition plate openings to and opening through the forward end wall of said cap, said tubes being of increasing diameter at their outer ends.

2,666,556
TEAKETTLE
Manuel S. Ziskin, University Heights, and Ralph B. Billig, Erieside, Ohio, assignors to Kromex Corporation, Cleveland, Ohio, a corporation of Ohio
Application March 8, 1949, Serial No. 80,166
8 Claims. (Cl. 222—473)



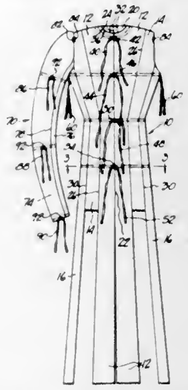
1. A teakettle comprising a receptacle having a cylindrical body portion and a closed top formed integrally with said body portion, a spout extending from said receptacle, a closure for said spout, a handle having a rear foot portion secured to said receptacle and a front foot portion in contiguity with said receptacle, said handle having a recess in said front foot portion, said recess having transversely spaced parallel vertical wall surfaces, a sheet metal bracket disposed in said recess, said bracket having a base and parallel vertical walls in contiguity with the walls of said recess, means securing said base to said receptacle, said spout closure having a rearward extension disposed between said bracket walls, and means for pivotally securing said extension to said bracket, said last-named means comprising a hollow pin extending through said extension and having the ends thereof mounted in the walls of said bracket, said pin restrained against axial movement by the walls of said recess, and screws extending through said handle and in threaded engagement with the ends of said pin.

2,666,557
LIQUID DISPENSER
Dwight Hester, Chicago, Ill.
Application April 1, 1948, Serial No. 18,370
3 Claims. (Cl. 222—479)



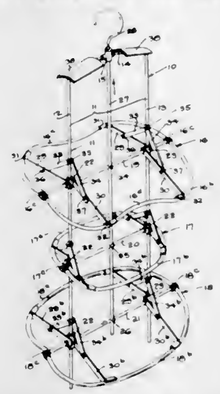
2. A liquid dispensing device adapted to be detachably fitted into the mouth of a liquor bottle for dispensing liquid therefrom to fill similar containers with a uniform quantity of liquid comprising a body having a passage therethrough for the flow of liquid from the bottle into a container and a second passage for admitting air into the bottle to replace the outpouring liquid, said air passage being substantially longer than said liquid passage, transversely extending legs formed on said body and adapted to rest on the rim of the container, supporting webs on said legs extending between said legs and said body, said legs and said supporting webs being integral with said body, the ends of said passages in said body distant from the bottle terminating in a plane lying parallel to the liquid surface in the container when said body is positioned on the container by said legs, and separately adjustable tubular members telescopically fitted in the outer ends of said passages whereby said passages may be selectively lengthened to any desired extent up to the length of said members, the tubular member in said air passage having a sufficiently large diameter to prohibit passage-blocking capillary retention of liquid therein when the liquid rises in the container to close said air passage, and said air passage having a portion of near capillary diameter connecting said tubular member with the interior of the bottle to prevent outpouring of liquid through said air passage when the bottle is tilted from upright to pouring position.

2,666,558
DRESSMAKER'S FOUNDATION AND GUIDE
Blanche Lavinia Howe, South Bend, Ind.
Application July 2, 1949, Serial No. 102,763
5 Claims. (Cl. 223—68)



1. A dressmaker's guide comprising a plurality of narrow vertical elongated flexible cloth panels secured together along longitudinal marginal lines to provide a sheath adapted to fit around and conform accurately to the contour of the human body and having a neck opening and armholes, two of said marginal securing lines occurring respectively at the front and rear centers of said sheath, the upper ends of certain of said panels being secured together at the shoulder portion of the sheath and between each armhole and the neck opening, said panels each extending continuously from said shoulder portion to a level below the hips of a wearer, said sheath being open between two adjacent panels to facilitate donning and removal of the unit, means for releasably securing together the marginal portions of said last named adjacent panels, the panels and the longitudinal securing lines between panels at opposite sides of front and rear center lines being substantially symmetrical, said longitudinal securing lines being located to guide vertical body measurements with two longitudinal securing lines at the front extending from mid-points of the opposite shoulders and downwardly across the bust.

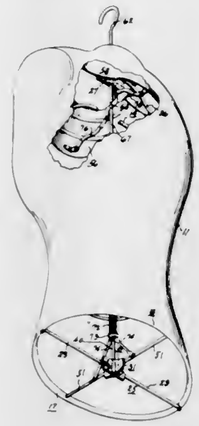
2,666,559
COLLAPSIBLE DRESS FORM
Benjamin Wexler and Marvin C. Wexler, Philadelphia, Pa.
Application July 19, 1950, Serial No. 174,750
14 Claims. (Cl. 223—68)



1. A collapsible form of the character described comprising a central main supporting frame having a pair of laterally spaced, parallel members, a plurality of body-forming frames each including a rod extending transversely of said laterally spaced members of the supporting frame and a pair of relatively foldable sections hingedly connected to said rod, said transversely extending rods being disposed in vertically spaced parallel relation and being guided on said laterally spaced members of the central supporting frame for vertical movement thereon, and toggle means interconnecting each pair of foldable body-forming sections with their associated transversely extending rod and with said laterally spaced members, said toggle means being operative to permit each of the paired foldable sections to assume either a relatively folded position or a relatively extended position.

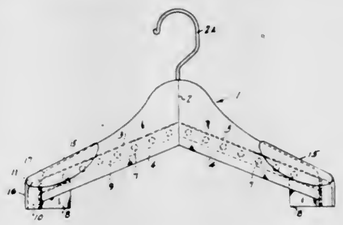
2,666,560
COLLAPSIBLE GARMENT HANGER AND FORM
Benjamin Wexler and Marvin C. Wexler, Philadelphia, Pa.
Application September 14, 1951, Serial No. 246,554
6 Claims. (Cl. 223—68)

1. In a collapsible garment form and hanger, a frame structure comprising an elongated flat main frame section, a plurality of folding frame sections each adapted to outline a portion of the human body and each carried by said main frame section for swinging movement between folded and expanded positions, said folding frame sections being disposed flat against said main frame section when in the former of said positions, and being disposed to suitably outline portions of the human body when in the latter of said positions, one of said folding frame sections presenting an outer surface conforming in shape to the shoulders and adjoining upper chest and upper back of the human body, a rigid elongated member carried by said main frame section and mounted for axial shifting movement relative thereto, said members being connected to said folding frame sections for simultaneous swinging movement thereof between said folded and expanded positions in response to said axial shifting movement,



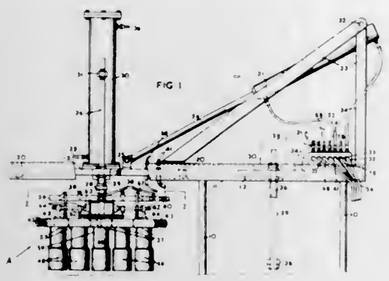
and spring means operatively associated with said member to normally urge it into such position relatively to said main frame structure as to maintain said folding frame sections fully expanded into body-conforming shape.

2,666,561
ADJUSTABLE GARMENT HANGER
Nels C. Welker, Portland, Oreg.
Application March 17, 1952, Serial No. 276,957
2 Claims. (Cl. 223—94)



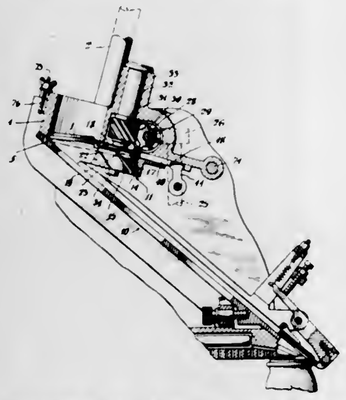
1. A garment hanger comprising in combination a body member having a center portion and a pair of arms extending outwardly therefrom, each of said arms being of inverted U-shape in cross section through its length to form a channel, the side walls of the channel having a plurality of opposing cavities formed therein, a pair of extension arms slidably mounted in said channels, resilient means attached to the innermost end of each extension arm and adapted for selective engagement with said cavities, a block secured within each channel at its outer end to provide a sliding support for each of said extension arms, each of said extension arms terminating at its outer end in a downwardly extending portion, an elongated and transversely curved plate slidably mounted lengthwise on each of said arms of said body member, and means formed integral with said plates for engagement with said downwardly extending portions of said extension arms.

2,666,562
MEANS FOR CRATING OR BOXING BOTTLES AND FOR REMOVING BOTTLES FROM CRATES OR BOXES
James Edwin Birch, Wolverhampton, England
Application July 26, 1951, Serial No. 238,644
12 Claims. (Cl. 226—14)



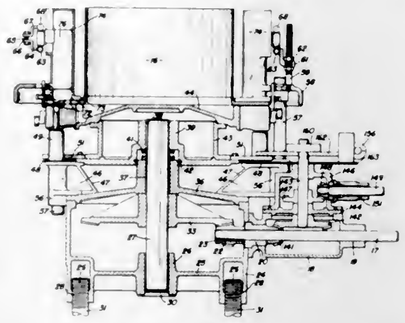
1. In a machine for handling bottles, the combination of lifting means for a number of spaced rows of bottles, spacing means incorporated in said lifting means for spacing lifted bottles apart in the rows, and conveying means for said lifting means, whereby a number of spaced rows of bottles can be lifted, the lifted bottles spaced apart in the rows, and the lifting means traversed between predetermined bottle pick-up and bottle discharge positions for loading the spaced bottles into a crate.

2,666,563
CLOSURE CAP FEEDING DEVICE
Harry E. Stover, Lancaster, Ohio, assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware
Application September 30, 1949, Serial No. 118,802
6 Claims. (Cl. 226—88.1)



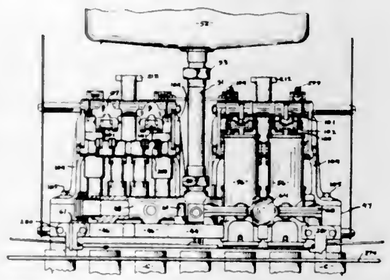
1. In a closure cap feeding device, the combination of rotatable means for separating successive closure caps from a stack of closure caps, reciprocable means above and adjacent said rotatable means for supporting closure caps out of contact with said rotatable means, a housing carrying said rotatable means and reciprocable means, and a mounting shaft extending through a portion of said housing, said housing being swingable about the axis of said shaft into and out of operating position.

2,666,564
FILLING MACHINE
Everett S. Minard, Fairport, N. Y., assignor to The Pfaudler Company, Rochester, N. Y., a corporation of New York
Application March 2, 1950, Serial No. 147,218
11 Claims. (Cl. 226—97)



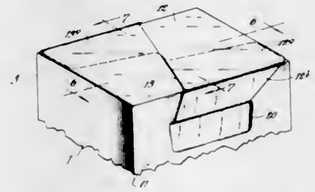
1. In a filling machine the combination of a reservoir, a cylinder having a piston operable therein and a rotatable valve, said valve having an intake port and a discharge port which extends completely through the valve, means for rotating said valve to either of two possible positions, said valve in one of said positions establishing communication between the reservoir and the cylinder through the intake port and cutting off communication between the discharge port and the container to be filled and said valve in the other of its positions establishing communication between the cylinder and the container to be filled through the discharge port and cutting off communication between the reservoir and the cylinder, and means for maintaining communication between said cylinder and said discharge port when the valve is in the first of its communicating positions whereby the entire discharge port of the valve is maintained full of the material being filled.

2,666,565
MECHANISM FOR FILLING CARTONS
Alfred A. Barnes and Robert Spurr, Syracuse, N. Y., assignors to Oswego Falls Corporation, Fulton, N. Y., a corporation of New York
Application June 3, 1948, Serial No. 30,774
36 Claims. (Cl. 226—99)



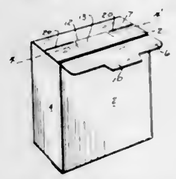
1. Apparatus for filling open-ended cartons comprising a guide rail adapted to support a procession of cartons, a plurality of liquid dispensing units, each adapted when operable to dispense a predetermined quantity of liquid into cartons positioned in registration with said units, push rods operable upon reciprocation to effect operation of said dispensing units, actuating plates, power means operable to effect reciprocation of said plates in a direction parallel to said push rods, latch members carried by said plates and being movable into and out of latching engagement with said rods, carton detecting means operable upon the absence of a carton positioned in registration with a dispensing unit to move the latch member associated with the push rod of said unit out of latching engagement.

2,666,566
CARTON
Ersel C. Mulnix, Lake Bluff, Ill.
Application October 14, 1948, Serial No. 54,457
4 Claims. (Cl. 229—39)



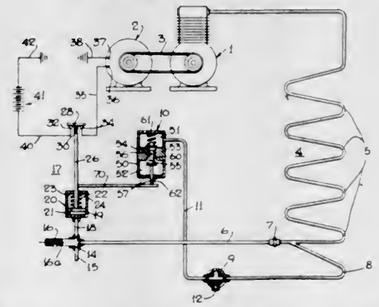
1. A carton structure of the class described comprising opposed pairs of walls foldably interconnected so as to form a tubular carton body which is foldable to flat, collapsed condition by folding on the lines of connection between said walls, a bottom flap extending from the bottom edge of one of the walls of one of said pairs and having at least one side edge disposed closely adjacent to the bottom edge of a wall of the other of said pairs of walls, an outer bottom flap extending from the bottom edge of the side wall opposite to the last-mentioned side wall and foldable into bottom-forming position under said first-mentioned flap, said outer bottom flap having an extension foldable upwardly over the outside of the first mentioned wall of said other pair of walls and a tongue foldably connected to said extension, said first mentioned wall of said other pair of walls being provided with an opening through which said tongue is movable into the interior of the carton body, said tongue being foldable downwardly within the carton and being of such vertical dimension that its lower end portion is insertable between said first-mentioned flap edge and the adjacent side wall to thereby lock said tongue in said downwardly folded position whereby said outer bottom flap is locked in end wall position.

2,666,567
INTERFITTING LOCK
Robert A. Farrell, Menasha, Wis., assignor to Marathon Corporation, Rothschild, Wis., a corporation of Wisconsin
Application April 10, 1950, Serial No. 155,035
3 Claims. (Cl. 229—45)



2. In a paperboard carton an interfitting lock comprising at least two interfitting flaps hinged to said carton and lying entirely in a substantially common plane when locked, one of said flaps presenting an integral tongue and the other having a slit therein for receiving said tongue, said slit being so shaped as to provide a three sided tab in said other flap having its free end opposite to the free end of the said other flap, and a hinge in said slitted flap transversely thereof including score lines alined with a portion of said slit to locate said three sided tab entirely within the outer panel of said other flap formed by said hinge.

2,666,568
COMPRESSED AIR SUPPLY SYSTEM
Kenneth A. Alexander, Forest Hills, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application November 29, 1950, Serial No. 198,065
2 Claims. (Cl. 230—1)

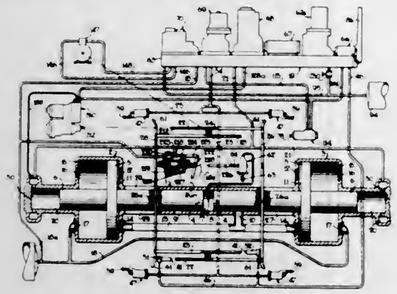


1. A compressed air supply system comprising a base plate, an air compressor and a continuous series of pipe coils arranged side by side transversely of said base plate adjacent one end thereof, said pipe coils being arranged in form of a helix with its axis vertical to permit gravity drainage of condensate in the coils and with the uppermost end of said coils open to the discharge of said compressor, a motor for operating said compressor mounted on said plate adjacent the opposite end thereof, a pipe fitting connected to said coils intermediate the uppermost end and the lowermost end thereof for connection with a compressed air using device or the like, a motor control device connected to receive compressed air from said coils via said pipe fitting for starting and stopping said compressor in response to chosen low and high pressures of such air, a blow-off device connected to the lowermost end of said coils to receive condensate accumulated therein, and means operative by said control device in starting or stopping said motor to actuate said blow-off device to open and then close a communication between said coil and atmosphere.

2,666,569
CONTROL APPARATUS FOR COMBINED FLUID COMPRESSORS AND FREE PISTON MACHINES
Arthur J. Bent, Pittsburgh, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application May 25, 1948, Serial No. 28,996
9 Claims. (Cl. 230—56)

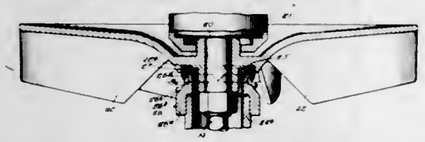
1. Apparatus for controlling starting of a free piston machine of the type having direct bounce and air compressing chambers in which energy of compressed air is adapted to move said piston from an outer position to an inner position

to provide compression ignition, said apparatus comprising valve means for venting both of said chambers, means for effecting movement of said piston to said outer position, an operator's con-



trol device for effecting operation of both of said means substantially in unison, and means operable in said outer position for supplying fluid under pressure to said direct bounce chamber.

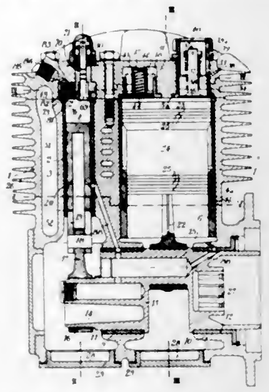
2,666,570
FIBER CUTTER FOR SUCTION CLEANERS
Frank S. Howard, Chicago, Ill., assignor to Birtman Electric Company, a corporation of Illinois
Application June 6, 1949, Serial No. 97,439
5 Claims. (Cl. 230—132)



1. In a suction cleaner including a rotatable fan shaft, a fan chamber having an opening through which said shaft extends and a fan within said chamber mounted on said shaft for drawing a fiber-laden air stream through said opening, a non-rotatable guard member surrounding said shaft adjacent said fan and said opening, and a fiber cutter mounted for rotation with said fan shaft and having at least one cutter blade adjacent said guard member to cut fibers deposited thereon.

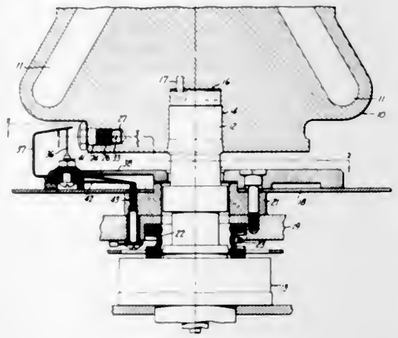
2,666,571
COMPRESSOR
Marcel René Armand Chabay, Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland, a corporation of Switzerland
Application July 22, 1948, Serial No. 40,031
Claims priority, application France July 28, 1947
2 Claims. (Cl. 230—182)

1. A three stage piston type compressor comprising a single cylinder block with two bores therein, said bores having parallel axes, a first piston slideable in one bore, which constitutes the high pressure cylinder of said compressor, a differential piston having mounted thereon two superposed skirts of different diameters, the top skirt being of a larger diameter than the bottom skirt, and slideable in the other bore having therein a liner with stepped diameters to receive said skirts, the portion of the bore above the top skirt constituting the low pressure cylinder of the compressor and the portion of the bore between the outer surface of the lower skirt and the inner surface of the liner having a diameter sufficient to receive the top skirt constituting the intermediate pressure cylinder, a single driven crankshaft and means connecting each of said pistons to said crankshaft whereby the compression stroke in the low pressure cylinder takes



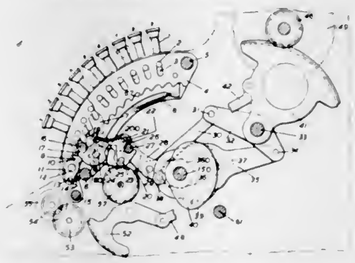
place during the suction stroke in the intermediate and high pressure cylinders, while the compression stroke in these latter cylinders takes place at the same time as the suction stroke in the low pressure cylinder.

2,666,572
CENTRIFUGE APPARATUS
Edward G. Pickels, Palo Alto, Calif., assignor to Specialized Instruments Corporation, Belmont, Calif., a corporation of California
Application May 9, 1950, Serial No. 160,888
1 Claim. (Cl. 233—24)



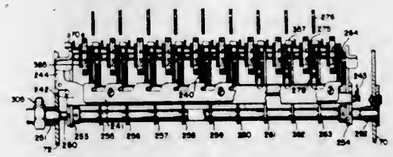
In high speed centrifuge apparatus, a horizontal mounting wall, a vertical drive shaft having an upper end portion extending through said wall and adapted for coupling to a rotor, a centrifuge rotor adapted to carry samples to be centrifuged and adapted to be removably socketed upon the upper end portion of the shaft whereby the rotor is driven when the shaft is rotated, the rotor having a lower annular portion, a fitting mounted in said annular portion, a weighted pin slidably carried by the fitting and movable between generally radially extended and retracted limiting positions relative to the outer peripheral surface of said annular portion, said pin when in extended position projecting beyond the contour of said outer periphery, a shear pin serving to normally lock said first named pin to said fitting and in retracted position said shear pin being broken by centrifugal force acting upon said first named pin when the speed of rotation of the rotor exceeds a predetermined value, driving means for the shaft including an electrical circuit adapted to be opened to reduce application of driving torque to the shaft, and a knock-out electrical conductor included in series with said circuit and mounted on said wall in spaced proximity with the outer periphery of said annular portion when the rotor is seated upon the shaft, said weighted pin serving to knock out said conductor when in its extended position.

2,666,573
DIFFERENTIAL LATCH MECHANISM
Karl Heinrich Tenoort, Berlin-Neukolln, Germany, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application July 14, 1951, Serial No. 236,811
Claims priority, application Germany October 21, 1950
5 Claims. (Cl. 235—14)



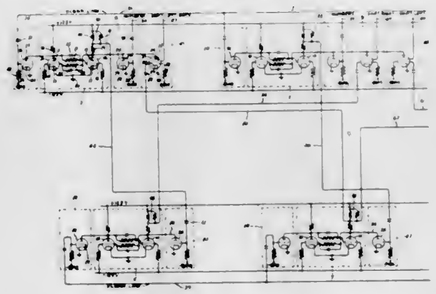
1. In a machine of the class described, the combination of a plurality of settable keys, a zero stop pawl, a differentially settable arm, a driving means for the arm, a latch member pivoted on said arm, a finger on the latch member cooperating either with a set key or with the zero stop pawl whereby the latch member is rocked on its pivot, a coupling member pivoted on said arm, a spring connecting the latch pawl and the coupling member, an arcuate surface on the coupling member normally engaged by the driving means, and a locking surface on the latch pawl normally held in engagement with the coupling pawl by said spring to hold the coupling member in engagement with the driving means, whereby the driving means actuates the said arm.

2,666,574
CALCULATING MACHINE HAVING TRUE NEGATIVE TOTALS MECHANISM
Carl H. Carlson, Nelson R. Frieberg, and Oscar F. Larsen, Ithaca, N. Y., assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application June 29, 1950, Serial No. 171,118
11 Claims. (Cl. 235—60.2)



1. In a calculating machine having printing mechanism settable in accordance with the movement of differential actuators, in combination, a main frame in which is mounted a denominational series of said differential actuators in spaced relation so the actuators may be individually moved parallel to one another; a totalizer frame shiftably mounted in the main frame with respect to the actuators so the totalizer frame may be shifted across the direction of movement of the differential actuators; a totalizer element for each denominational actuator, said elements being mounted in the totalizer frame on an axis paralleling the line of shift of the totalizer frame in the same spaced relation as the actuators, said totalizer elements being alined with the actuators for positive amount entries or positive total taking when the totalizer frame is shifted one way and said totalizer elements being alined with the actuators for negative amount entries or negative total taking when the totalizer frame is shifted the other way; means for selectively moving the actuators for amount entries; means for engaging the actuators and totalizer elements for entering the selected amounts; a transfer lever associated with each totalizer element, said transfer levers each being movably mounted in the main frame, the movement of a lever permitting an extra step of movement of the actuator of next higher order in an amount entry operation so as to transfer to it a carry unit of data, and each transfer lever having an add carry formation and positive total formation side spaced in the direction of totalizer shifting from a subtract carry formation and a negative total formation; an add pawl side spaced in the direction of totalizer frame shifting from a subtract pawl on each totalizer element, whereby when the totalizer elements and totalizer frame are shifted to add position the add pawls of the totalizer elements are alined with the add and positive total formations of the transfer levers, and when the totalizer elements and totalizer frame are shifted to subtract position the subtract pawls of the totalizer elements are alined with the subtract and negative total formations of the transfer levers.

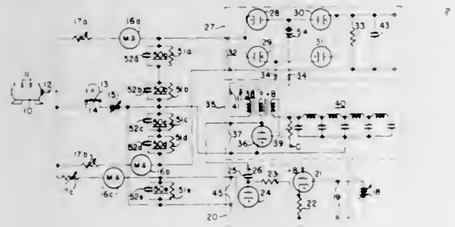
2,666,575
CALCULATING DEVICE
Robert A. Edwards, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 26, 1949, Serial No. 123,700
9 Claims. (Cl. 235—61)



2. A shifting register for binary numbers comprising a first plurality of flip-flop circuits, means for actuating selectively each of said circuits to represent the character of a particular digit of a binary number thereby to store a particular binary number in said circuits, said means comprising a plurality of clear actuating electronic circuits and a plurality of numbers actuating electronic circuits, one clear actuating circuit and one numbers actuating circuit being eleo-

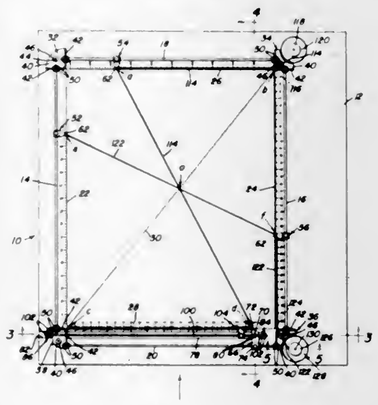
trically connected to each of said flip-flop circuits, a second plurality of flip-flop circuits each associated with a particular one of said first plurality of flip-flop circuits, means transferring said binary number from said first plurality of flip-flop circuits to said second plurality of flip-flop circuits in corresponding digital order, said means comprising a second plurality of clear actuating circuits each electrically connected to one of said second plurality of flip-flop circuits to clear the same, a plurality of choke circuits electrically connected one to each of said first plurality of flip-flop circuits for current flow therethrough in response to a particular actuation of said flip-flop circuit associated therewith and having thereacross control voltages of one polarity in response to a change in current flow therethrough in one direction and control voltages of opposite polarities in response to a change in current flow therethrough in the reverse direction, and a plurality of transfer electronic circuits electrically interconnecting each of said choke circuits with an associated one of said second plurality of flip-flop circuits and operating in response to said control voltages of one polarity of said choke circuits, and means transferring said binary number from said second plurality of flip-flop circuits back to said first plurality of flip-flop circuits in one digit displacement with respect to the original storage position of said number therein and for controlling the direction of displacement of said digits.

2,666,576
ELECTRICAL COMPUTER
Charles J. Hirsch, Douglaston, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application May 11, 1951, Serial No. 225,721
15 Claims. (Cl. 235—61)



1. An electrical computer for solving equations having known and unknown parameters and involving mathematical series including terms each having an exponent and a multiplier and comprising: a signal-generating circuit for periodically supplying an electrical signal; a plurality of time-constant networks at least some of which are electrically coupled in series relation with said signal-generating circuit and each thereof having circuit elements so proportioned that the impedances of said networks are proportioned with respect to each other in the ratio of said multipliers of said terms and the time constants of said networks are proportioned with respect to each other in the ratio of said exponents of said terms and impedance characteristic so that, upon application of said electrical signal thereto, there is developed in each thereof a different voltage varying as a predetermined time function which, at an instant of time determined by an independent-variable known parameter of said mathematical series reaches a value representing one of the terms of said mathematical series; a source of potential having a value representative of said independent-variable known parameter; means for utilizing said potential of said source and at least one of said voltages at said instant of said time to develop a control effect; and a signal-sampling circuit coupled to said utilizing means and to at least one of said networks and responsive to said control effect for determining the value of at least one of said voltages at said instant of time to derive a resultant voltage representative of the value of an unknown parameter of said mathematical series.

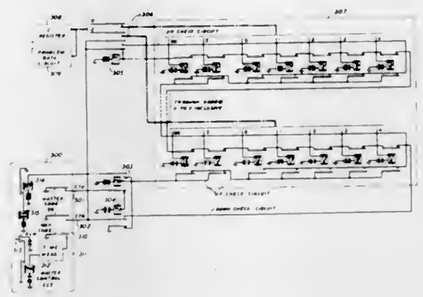
2,666,577
COMPUTER BOARD
John W. Parker, Mount Vernon, N. Y.
Application August 12, 1952, Serial No. 304,046
3 Claims. (Cl. 235—61)
(Granted under Title 35, U. S. Code (1952), sec. 266)



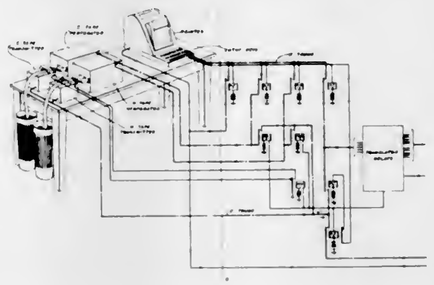
1. A calculating instrument comprising a rectangular base, a stationary diagonal line connecting two opposite corners of said base, a scale disposed near each side of said base, an elongated guide positioned adjacent to each of said scales, a slide movably mounted on each of said guides and having a pointer portion that overlies and indicates a point on its associated scale, a plurality of line-shaped elements arranged to each connect a pair of opposing slides, one of said slides supporting an auxiliary guide which is movable therewith, and an auxiliary slide movably mounted on said auxiliary guide.

2,666,578
SWITCHING CONTROL SYSTEM
Joseph P. Juley, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 17, 1946, Serial No. 716,793
4 Claims. (Cl. 235—61)

4. In a calculator, a relay register having a plurality of incoming terminals, a plurality of conductors, a connector for connecting said conductors to said terminals, means for controlling said connector for minimizing operating errors comprising a first and a second operating conductor, a cut-in relay for operating said connector, a down-check circuit completed by the relays of said register when and only when said register is certainly released, means for concurrently electrically energizing said two operating conductors, a first conductor relay responsive to the electrical energization of said first conductor, a circuit closed by said first conductor relay for extending said electrical energization of said second conductor through said down-check circuit to operate said cut-in relay and said connector, an up-check circuit completed by the relays of said register when and only when said register has been properly set, a second circuit closed by said cut-in relay for extending the electrical energization of said second conductor through said up-check circuit to operate a second circuit relay for opening the connection between said first conductor and said first conductor relay and satisfaction means controlled by said first conductor relay in its released position and said second circuit relay in its operated position for reporting the successful completion of a registration in said relay register.

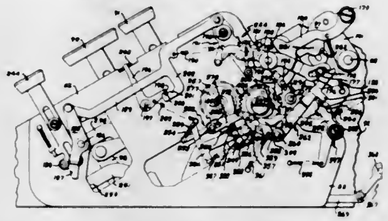


2,666,579
AUTOMATIC CACULATOR
George R. Stibitz, Boonton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 26, 1944, Serial No. 569,867
13 Claims. (Cl. 235—61.6)



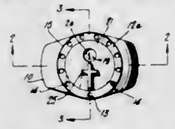
1. In a calculating device, a calculator, a master index containing operational and numercial factor indicia, an auxiliary index containing numerical factor indicia, said indices being removable and replaceable by other indices containing different indicia representing different patterns of operation and different numerical factors, means under control of said master index for entering numerical factor signals from said master index and from said auxiliary index into said calculator, and a recorder for recording the result calculated by said calculator in said auxiliary index as additional numerical factor indicia.

2,666,580
DIVIDEND-DIVISOR ALIGNING MECHANISM
George W. Hopkins, San Leandro, and Elwood A. Davis and Gottfried Zickler, Castro Valley, Calif., assignors to Friden Calculating Machine Co., Inc., a corporation of California
Application January 26, 1951, Serial No. 207,958
8 Claims. (Cl. 235—63)



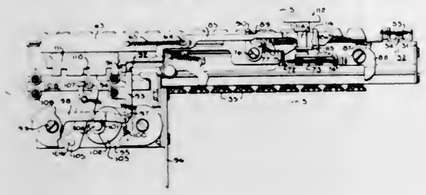
1. In a calculating machine having an automatic division mechanism, the combination which comprises an amount entering means for receiving a divisor factor, a register for receiving a dividend factor, mechanism for laterally shifting the said register in either direction relative to the said amount entering means, a positionable division control member, resilient means biasing said member to an inoperative position, manually operable means for moving said member to an operative position, means for latching said member in an operative position, mechanism controlled by said positionable member upon movement to its operative position for initiating operation of the said shifting mechanism to move the said register toward its rightmost end position, and power-operated mechanism operated by said shifting mechanism in attempted overtravel movement of the said register beyond its rightmost end position for releasing said latch and thereby terminating the said right shift operation, and means controlled by said member in its return to its inoperative position for initiating operation of the said automatic division mechanism.

2,666,581
INDICATOR RING
James J. Smith, Baltimore, Md.
Application April 29, 1949, Serial No. 90,377
5 Claims. (Cl. 235—106)



1. In an indicating device, a support member provided with a circular opening extending partially therethrough, an annular indicating member rotatably mounted within said opening, a projection extending inwardly of the inner wall of said annular member, a plate mounting stud secured to the floor of said opening and provided with a circular aperture whose axis is disposed substantially perpendicular to the axis of said circular opening, an indicating member rotatably disposed within said mounting stud aperture provided with a set of characters about its periphery and a driving surface in position for actuation by said projection, and a cover plate provided with a reading window secured to said plate mounting stud with said reading window substantially in register with said character set and retaining said annular member within said circular opening.

2,666,582
SPLIT CLEARING MECHANISM
Anthony B. Machado, San Leandro, and Frank J. Pruellage, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc., a corporation of California
Application January 11, 1949, Serial No. 70,172
8 Claims. (Cl. 235—144)



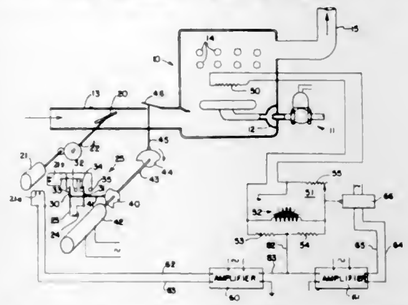
1. In a machine of the class described having a register comprising a single series of numeral wheels adapted in one type of machine operation to have entered therein two totals accumulated separately in two different parts of said series of numeral wheels, and in another type of machine operation to accumulate a single total with ordinal values thereof registered in both of said two parts of said series of numeral wheels and means for introducing numerical values into said wheels, the combination of separate means for resetting the wheels in each part of said series to zero; a common operating member for both of said resetting means; a cyclically operable power driving means; a lost motion driving connection between said power driving means and said common operating member so as to cause a slight delay in the operation of said member by said driving means; means for connecting said common operating member with one of said resetting means so as to cause the associated numeral wheels to be reset to zero whenever said common operating member is operated; normally effective means for connecting said common operating member with the other of said resetting means so as to cause the associated numeral wheels to be reset to zero whenever said common operating member is operated; and means operated by said power driving means during the early part of its cycle for disabling said normally effective means prior to movement of said common operating member by said driving means.

2,666,583
THERMORESPONSIVE COLOR CHANGE CONTROL DEVICE
William B. Whitney, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 7, 1951, Serial No. 245,601
7 Claims. (Cl. 236—1)



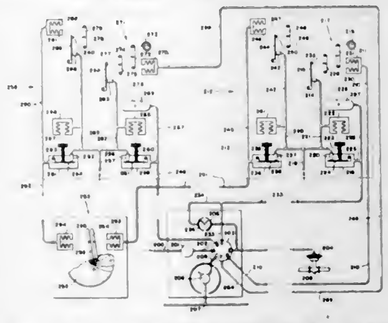
4. A means for controlling a temperature comprising in combination a thermochromatic material, means for passing a radiation through said material, means for sensing color change of said radiation after its passage through said material, and means adapted to control said temperature responsive to said color changes.

2,666,584
COMBUSTION CONTROL APPARATUS
Waldo H. Kliever, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 18, 1950, Serial No. 201,330
12 Claims. (Cl. 236—15)



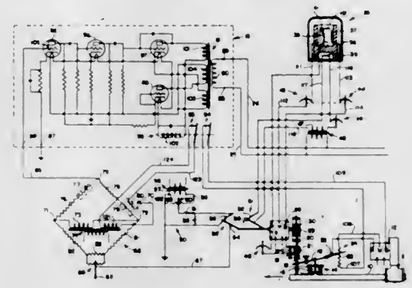
4. In control apparatus for a combustion process where variations in a fluid flow will cause combustion temperature to pass through a maximum value, the combination including fluid flow regulating means, temperature change responsive apparatus comprising a first device adapted to respond to combustion temperature and a second device effective slowly to overcome the effect of said first device so that said temperature change responsive apparatus is responsive to the rate and direction of change of combustion temperature, means for cycling the fluid flow, and means controlled by said temperature change responsive apparatus for adjusting said fluid flow regulating apparatus until the cycling of the fluid flow causes no appreciable change in the combustion temperature, said last named means comprising motor means having a pair of control windings, one of which is energized by said change responsive apparatus and the other of which is cyclically reversed in phase energization at a rate corresponding to the rate of cycling of the fluid flow.

2,666,585
DISTANCE ADJUSTED PNEUMATIC CONTROL SYSTEM
Louis Gess, Jenkintown, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 11, 1948, Serial No. 48,856
6 Claims. (Cl. 236—51)



1. In an air-operated controller for manually or automatically operating from a control location a motor-driven final control element positioned at a remote location, the combination including, a first manually operable air-pressure regulator at the control location, a switching valve having a connection for connecting said first manual regulator to the motor of the final control element, an air-pressure-operated indicator positioned at the control location and connected to the motor of the final control element, a second manually operable air-pressure regulator positioned at the control location, a pair of relatively movable parts constituting an air-operated receiver, said switching valve having connections for connecting said second manual regulator to said receiver, a nozzle, a flapper valve controlling the flow of air through said nozzle, a measuring element, a differential linkage including a movable pivot and connecting said measuring element to said flapper and connecting said receiver to said flapper so as to locate the set point of said flapper, a pilot valve having a motor operated in response to the flow through said nozzle, said switching valve having connections connecting the output side of said pilot valve and the motor of final control element, a second air-pressure-operated indicator connected to the output side of said pilot valve and to said last mentioned connections, a second pair of relatively movable elements constituting an air-operated repositioning device, a second nozzle, a second flapper valve controlling the flow of air through said second nozzle, a second pilot valve constituting a transmitter and having a motor operated in response to the flow of air through said second nozzle, a mechanical connection between said measuring element and said second flapper valve, a connection between the output side of said second pilot valve and said repositioning device, a linkage between said repositioning device and said second flapper valve, a third pair of relatively movable elements constituting a second air-operated receiver, a connection between said second receiver and the output side of said second pilot valve, a pen arm operated by said second receiver, a chart located at the control location adjacent said manually operated air-pressure regulators so as to receive a record from said pen arm, a third pair of relatively movable elements constituting a third air-operated receiver, said switching valve having connections connecting said second regulator to said third receiver, a second measuring element, a third nozzle, a third pilot valve having a motor operable in response to the flow through said third nozzle, a third flapper valve controlling the flow through said third nozzle, a second differential linkage including a movable pivot and connecting said second measuring element to said third flapper and connecting said third receiver to said third flapper so that movement of said third receiver adjusts the position of said movable pivot and consequently the set point of said third flapper, a fourth pair of relatively movable elements constituting a third air-operated repositioning device, a fourth nozzle, a fourth flapper valve controlling the flow through said fourth nozzle, a fourth pilot valve constituting a transmitter and having a motor operated in response to the flow through said fourth nozzle, a connection between the output side of said fourth pilot valve and said third repositioning device, and a mechanical linkage between said third repositioning device and said fourth flapper valve whereby said fourth flapper valve is positioned by movement of said third repositioning device, a fifth pair of movable elements constituting a fourth air-operated receiver, a pen arm operated by said fourth receiver and cooperating with said chart to make markings thereon, said switching valve having connections for connecting the outlet side of said third pilot valve and said first receiver.

2,666,586
TEMPERATURE CONTROL APPARATUS FOR STEAM HEATING SYSTEMS
James S. Locke and Dwayne J. Noggle, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application March 23, 1949, Serial No. 83,026
13 Claims. (Cl. 236—68)



1. Control apparatus for a steam heating system comprising a motor actuated valve means for regulating the supply of steam to said system, the motor of said valve means being of a type capable of operating to various positions in accordance with the adjustment of a control impedance, a pressure responsive electrical impedance device arranged to respond to the pressures in said system, circuit means connecting said device in controlling relation to said motor actuated valve means, a means responsive to a condition indicative of the load on said system, said means including a potentiometer adjusted in response to said condition, a proportioning motor arranged to adjust said pressure responsive device and connected to said potentiometer for control thereby, an electrical impedance also adjusted by said proportioning motor, a switching means connected to control at least a part of said circuit means in a manner to permit normal control of said valve means or to effectively bias said valve means to a closed position, a cycler for operating said switching means to "on" and "off" positions, said cycler being adjustable to vary the relative times the switching means is in each of said positions, and additional electric circuit means connecting said motor adjusted impedance in controlling relation to said cycler for adjusting the rate of cycling of said cycler.

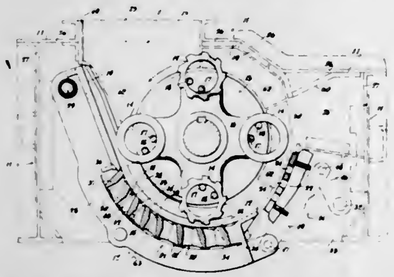
2,666,587
BENEFICIATION OF BERYLLIUM ORES BY FROTH FLOTATION
Sidney M. Runke, Rapid City, S. Dak., assignor to the United States of America as represented by the Solicitor of the Department of the Interior
No Drawing. Application June 23, 1952, Serial No. 295,128
8 Claims. (Cl. 241—20)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process for the flotation of beryl from beryllíferous material comprising treating a pulp of the beryllíferous material with a hypochlorite solution to activate the beryl particles for flotation, and then froth floating the beryl particle from the residual gangue in the presence of a water-soluble sulfonate.

2,666,588
FLOTATION PROCESS FOR SEPARATION OF SILICA AND RHODONITE
Carl H. Schack, Salt Lake City, Utah, and Karl C. Dean, Mexico City, Mexico, assignors to the United States of America as represented by the Solicitor of the Department of the Interior
No Drawing. Application December 15, 1952, Serial No. 326,172
6 Claims. (Cl. 241—20)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process for the froth flotation of silica from rhodonite comprising adding to a pulp of rhodonite-silica containing material a frothing agent, dextrine, and tri-sodium phosphate, adjusting the pH of the pulp to about 7, and floating the silica from the rhodonite by addition of a cationic collecting agent.

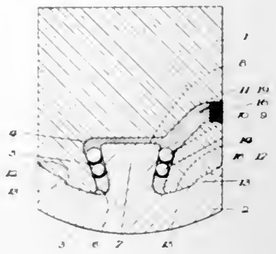
2,666,589
SCREEN BAR
Ostap Danyluke, Philadelphia, Pa., assignor to Pennsylvania Crusher Company, Philadelphia, Pa., a corporation of New York
Application December 28, 1950, Serial No. 203,145
4 Claims. (Cl. 241—88)



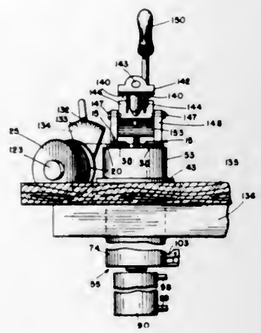
1. In a crusher having a rotor with hammers for crushing frangible material introduced into said crusher, a cage having screen bars with walls transverse to the movement of said hammers forming a material passing slot between a set of bars, each bar comprising a plane surface impact receiving wall facing in the direction of approach of said hammers and extending the full depth of said slot, a hammer facing wall forming an edge at an acute angle with said impact wall and a trailing surface wall having an inner portion substantially parallel to said impact wall and forming with the opposing impact wall an inner slot for passing the crushed material and an outer wall portion at a tapering angle with the impact wall to form an outer outwardly expanding exit slot with the opposing impact wall to disperse the crushed material leaving the inner slot.

2,666,590
DROP HAMMER
William M. Pryor, High Bridge, N. J., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a corporation of New Jersey
Application January 2, 1952, Serial No. 264,365
11 Claims. (Cl. 241—291)

1. A two-part drop hammer comprising a relatively heavy drop body and a replaceable wearing shoe, one of said parts having a tapered recess and the other having a tapered shank with an enlarged end extending into said recess, the degree of taper and the dimensions of said recess and shank being arranged to provide therebetween an annular space which decreases in width and in circumference toward the mouth of said recess, a plurality of balls in said annular space and having a diameter greater than the minimum clearance between the shank and recess, one of said parts having a ball passage communicating with said annular space, and means for closing said passage.

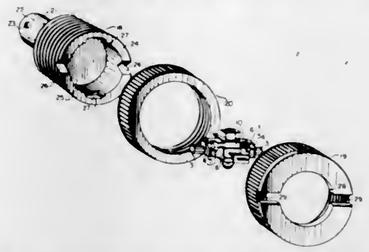


2,666,591
APPARATUS FOR APPLYING STICKY STRAND MATERIAL TO ARTICLES
Cecil C. McCain, Glen Ellyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 7, 1951, Serial No. 224,858
10 Claims. (Cl. 242—7)



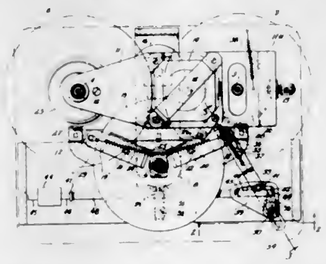
1. A device for winding sticky strand onto articles comprising a member rotatable about a predetermined axis, a plurality of spindles mounted on said member for rotation about axes disposed parallel to, equi-distant from, and equi-angularly about said predetermined axis and having seats for supporting said articles, means for supporting a supply of said sticky strand in a position to permit the strand to extend from said supply directly to an article on one of said spindles and be adhered to said article and to permit the withdrawal of said strand in the path of movement of said articles, means for indexing said member through a predetermined arcuate distance, and gearing means including a stationary gear for rotating said spindles and the articles thereon through a predetermined arcuate distance about the axes of said spindles in response to the indexing movement of said member for wrapping several convolutions of said strand about one of said articles and for moving another article into engagement with said strand.

2,666,592
METHOD OF AND APPARATUS FOR WINDING COILS IN PAIRS WITH A CONTINUOUS STRAND OF WIRE
John H. Bieg, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 2, 1949, Serial No. 125,123
5 Claims. (Cl. 242—9)



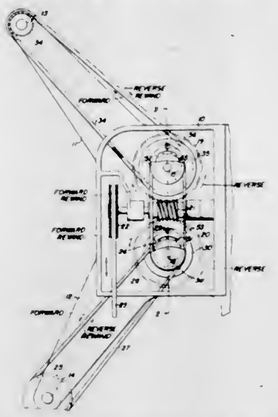
1. In a coil winding device for winding coils on to a plurality of separate and independent cores with a continuous strand of wire, a rotatable chuck having notches in its outer end, an arbor, the ends of said arbor shaped to fit into said notches in a number of rotated positions of said arbor about its longitudinal axis, a plurality of separate and independent coil cores, means for clamping said cores onto said arbor with the longitudinal axes of said cores perpendicular to the longitudinal axis of said arbor, means for selectively securing said arbor to said chuck with the ends of said arbor locked to said chuck in said notches in any one of said number of rotated positions of said arbor about its longitudinal axis and with the longitudinal axis of said arbor normal to the axis of rotation of said chuck so that selectively one of said cores can be positioned with its longitudinal axis coincident with the axis of rotation of said chuck for winding said positioned core and so that another of said cores can be positioned with its longitudinal axis coincident with the axis of rotation of said chuck for winding another of said cores.

2,666,593
REVERSIBLE DRIVE CONTROL FOR TAPE RECORD FEEDING MECHANISMS
Burnham E. Stone, Philadelphia, Pa., assignor to The International Electronics Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 9, 1948, Serial No. 19,913
12 Claims. (Cl. 242—55)



1. In equipment for handling an elongated record and having a reversible drive for reversibly translating such a record, control mechanism comprising a reciprocable drive reversing member having forward and reverse positions of adjustment and being spring biased toward reverse operating position, a rotative reversing control member having corresponding positions of adjustment, and cooperating cam and cam follower elements one associated with one of said members and the other with the other of said members, the cam being configured to effect reciprocation of said reciprocable member upon rotative adjustment of the rotative control member in one direction and to effect rotative adjustment of the rotative control member in the other direction by the action of the spring bias, and the cam further having a substantially arcuate station toward one end of the cam corresponding to the forward operating position, with the arcuate contour of said arcuate station substantially concentric with the axis of rotation of the rotative control member.

2,666,594
REEL DRIVING MECHANISM FOR MOTION-PICTURE PROJECTORS
Vernon H. Jungjohann, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 1, 1952, Serial No. 279,797
10 Claims. (Cl. 242—55)



1. A reel driving mechanism for a motion picture projector capable of forward, reverse and rewind operation comprising in combination a rotatable supply spindle, a rotatable takeup spindle, means for selectively driving said supply spindle in one direction for rewind and reverse operation and leaving it free to rotate in the other direction for forward operation, a first tendency drive for said supply spindle capable of producing a given driving torque on said spindle and including a driver member and a driven member with a slippable coupling therebetween, means for selectively clutching said driven member to said driver member for rewind operation and declutching it from said driver member for reverse and forward operation, a second reversible driver member adapted to drive in one direction for forward operation and the other for reverse operation, a second tendency drive for said take-up spindle including a driver member, a driven member and a slippable coupling between the two, a one-way clutch between said last mentioned driver member of the second tendency drive and said second reversible driver member arranged to connect said driver to said driver member only when the latter is driving in a forward direction, an auxiliary tendency drive arranged to produce a driving torque which is less than said given driving torque which

said first tendency drive for the supply spindle is capable of, means for connecting said auxiliary tendency drive to said second driver member to be driven thereby, and means for automatically connecting said auxiliary tendency drive to said first tendency drive to drive the same only when said auxiliary tendency drive is being driven in a direction for reverse operation and when said first tendency drive is declutched from said first driver member.

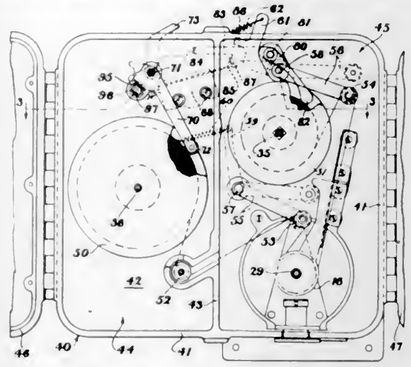
2,666,595
LINOLEUM ROLL LIFT
Clarence L. Eldh, Stockton, Calif.
Application September 30, 1952, Serial No. 312,319
3 Claims. (Cl. 242—55.2)



1. A linoleum roll lift comprising a pair of separate units adapted to be disposed at opposite ends of the roll, each unit comprising a base plate, a post upstanding from the plate, a sleeve slidable on the post, a horizontal-axis rotary member projecting from and movable with the sleeve and adapted for engagement in one end of the axial opening of a roll, a hand lever pivoted at one end on the base plate adjacent the post, an upstanding link between and pivoted at its ends on the lever intermediate its ends and the sleeve, said link being disposed at an upward angle toward the sleeve when the lever is in a lowered position and the sleeve is in a lowered position on the post, and so that the lever when swung up on its pivot will lift the sleeve and roll supporting member; the link and the portion of the lever between the base pivot and the point of pivotal connection of the link therewith being substantially alined and vertical when the sleeve is fully lifted, and releasable latch means between the lever and link operable when said lever portion and the link are in such substantially vertical position.

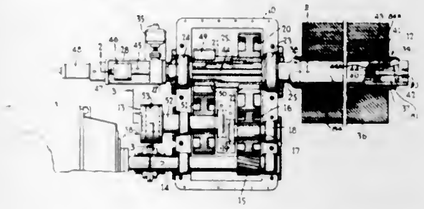
2,666,596
FILM ALARM SYSTEM FOR PHOTOGRAPHIC APPARATUS
Norman J. Rosenburgh and Edward B. Schoonmaker, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 5, 1952, Serial No. 280,824
7 Claims. (Cl. 242—57)

1. In photographic apparatus having a film plane, the combination with film handling means including two spaced rotatable members for supporting a film strip and film advancing means including a member adapted to engage a portion of said film strip between said rotatable members for movement thereof through said film plane from one to the other of said rotatable members, of film engaging means adapted to engage a portion of said film strip between said rotatable members for maintaining said film strip under tension and in engagement with said member and to be movable to a predetermined position upon loss of tension in said film strip, a movable member having a portion adapted to engage the outer convolution of the film strip on one of said rotatable members and movable to a predetermined position as said convolutions decrease, a second movable member having a portion adapted to engage the outer convolution of the film strip on said other rotatable member when said convolutions have reached a predetermined number and movable to a predetermined position as said convolutions increase, and means including an alarm and responsive to any one of



said film engaging means, movable member and second movable member and adapted to be actuated to an operative position solely and severally by said film engaging means, movable member and second movable member in said predetermined position for indicating conditions of said film strip on and between said rotatable members.

2,666,597
WEB TENSION CONTROL
Frank J. Wood, Spokane, Wash., assignor to Erwin Loewy, New York, N. Y.
Application June 29, 1950, Serial No. 171,170
4 Claims. (Cl. 242—75)

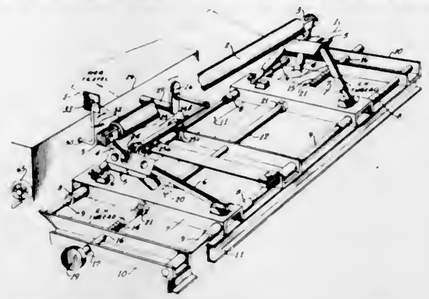


1. In a foil unwinding machine, the combination comprising a reel spindle, a sleeve means carrying said spindle, said spindle being longitudinally moveable relative to said sleeve so that the spindle can be selectively positioned, a rotatable electric braking means connected to said sleeve means placing tension on strip being unreeled from said spindle, and a free-wheeling braking means connected to said sleeve means freely rotatable when the sleeve and spindle are rotating in unreeling direction, but automatically moving to a braking position if rotation of said reel is reversed from its unreeling condition so as to prevent backlash and the like.

2,666,598
PAPER WEB GUIDE
Willard C. Robinette, South Pasadena, Calif.
Application May 5, 1950, Serial No. 160,170
13 Claims. (Cl. 242—76)

2. A web guide comprising a guide roller around which said web is arranged to make a turn, a

support member pivotally connected to each end of said roller, a base, said support members being of substantially equal lengths and pivotally connected to said base to form a trapezoidal shape



of which said members are the non-parallel sides, means for sensing the lateral position of said web, and means for rocking said roller by rotating said support members laterally about their base connections in accordance with said sensing means.

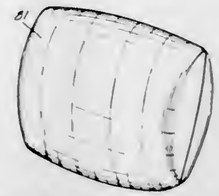
2,666,599
PLASTIC CONE
Robert B. Battersby, Darien, Conn., assignor to PM Industries, Incorporated, a corporation of Connecticut
Application January 3, 1951, Serial No. 204,128
9 Claims. (Cl. 242—122)



2. As a new article of manufacture, a cone comprising a body formed of a thermo-setting plastic material having incorporated therein a fiber filler having a surface characterized by the exposed fiber filler.

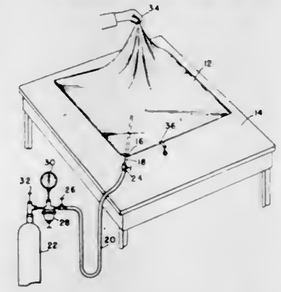
2,666,600
BALLOON AND METHOD OF MAKING
William F. Huch, St. Paul, and Raymond I. Hakomaki, Minneapolis, Minn., assignors to General Mills, Inc., a corporation of Delaware
Application June 25, 1951, Serial No. 233,282
15 Claims. (Cl. 244—31)

12. A load-carrying balloon comprising a balloon envelope of light weight thermoplastic material tubular in shape, the material being non-extensible to limit the floating altitude, a closure for the tubular material comprising a heat seal joining the edges completely across the tubular material, and a similar heat seal joining the edges completely across the other end of the tubular material, and a quantity of lifting gas within the balloon insufficient to completely distend the



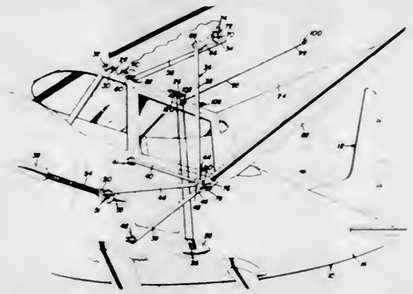
balloon at ground level and expanding with decreased air pressure as the balloon ascends.

2,666,601
CONSTANT ALTITUDE BALLOON
William F. Huch, St. Paul, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application February 15, 1952, Serial No. 271,718
8 Claims. (Cl. 244—31)



1. A constant altitude balloon comprising a sealed balloon envelope formed of a non-extensible material containing a volume of lifting gas sufficient to fully inflate the balloon at its maximum attainable altitude, and containing an additional volume of lifting gas to replace the gas which diffuses through the balloon walls to maintain the balloon constantly at said maximum altitude for an extended period of time.

2,666,602
AIRCRAFT WING MOUNTING ASSEMBLY
James Wismer Holland, Valdosta, Ga.
Application January 4, 1951, Serial No. 204,312
7 Claims. (Cl. 244—49)



1. In an aircraft having a fuselage, a wing section detachably connected at its inboard end to said fuselage, a frame rotatively connected to said fuselage for movement about a substantially vertical axis, a link having an inner end pivotally

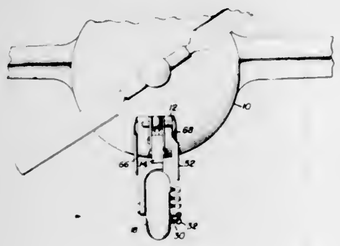
connected to said frame, a pivot pin pivotally mounted at the outer end of said link and fixedly attached to said wing section near its inboard end for movement of said link in a substantially vertical plane, pulling means operably attached to said fuselage and connected to said wing section at a point between said pivot pin and the trailing edge of said wing section nearer to the wing tip than said pivot pin for pulling said wing section inwardly toward and above said fuselage and for swinging said wing section to a position substantially parallel to said fuselage and means attached to said fuselage and operatively connected to and rotating said frame toward said fuselage after said wing section has been moved to the position substantially parallel to the fuselage.

2,666,603
BALANCED CONTROL SURFACE
Edward J. Horkey, Rolling Hills, Calif., assignor to North American Aviation, Inc.
Application January 3, 1951, Serial No. 204,104
13 Claims. (Cl. 244—90)



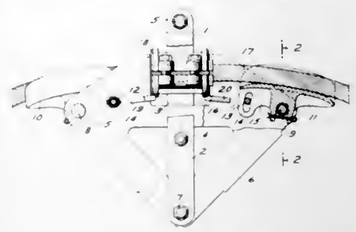
1. The combination with an airfoil, a control surface hingedly mounted thereon and forming a gap therewith and a pressure balance system cooperatively connected between said airfoil and said control surface, of means arranged for actuation by said control surface and including a vane element movably carried upon said airfoil for increasing the gap between said airfoil and said control surface on the negative pressure side of the displaced control surface as said control surface is displaced.

2,666,604
RETRACTABLE WIND SCOOP
Albert P. Davis, Haddon Heights, N. J.
Application January 14, 1952, Serial No. 266,273
11 Claims. (Cl. 244—103)



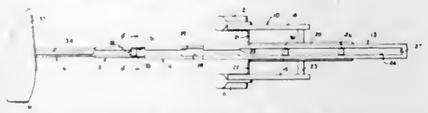
1. In an aircraft having landing wheels, a prerotating device comprising a plurality of wind scoops arranged about the periphery of said wheels, recesses in said wheels for housing said scoops, extensible supports secured between the bottoms of each of the recesses and said wind scoops for projecting said scoops into the air stream adjacent said wheel.

2,666,605
SHOCK ABSORBING CABLE HANGER
Allen E. Chisholm, Portland, Oreg.
Application June 18, 1949, Serial No. 99,979
7 Claims. (Cl. 248—63)



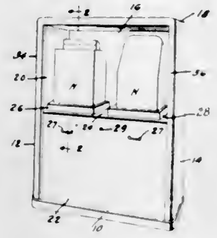
1. A shock absorbing cable hanger for supporting a conductor cable comprising a drop hanger provided with pivotal mounting means adjacent to one end thereof for use in supporting said hanger, a primary load supporting member comprising a generally triangular shaped cable carrier having an apex portion and an elongated base extending along the side of said cable carrier opposite said apex portion, pivotal securing means located adjacent to the other end of said drop hanger hingedly connecting the apex portion of said cable carrier and said drop hanger with the elongated base thereof positioned above said apex, and a secondary load supporting means comprising a plurality of cable chairs, one of which is pivotally mounted adjacent to each of the ends of said elongated base of said cable carrier.

2,666,606
FLATIRON REST FOR IRONING BOARDS
Cora A. Steen, Inglewood, Calif.
Application November 10, 1951, Serial No. 255,793
4 Claims. (Cl. 248—117.6)



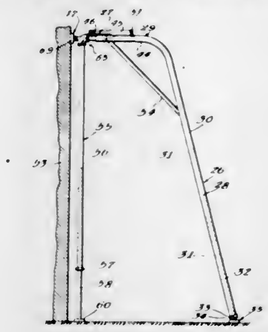
1. An extensible support for a flat iron rest comprising: a base; a plurality of elongated tubes slidably mounted one within the other for telescopic movement, the outermost tube being fixed on and rigidly supported by said base in a substantially horizontal position; an elongated rigid cylindrical member slidably mounted in the innermost tube, each of said tubes having a constant width longitudinal slot in its wall, each slot extending from a point near the inner end of a respective tube to a point near its outer end, and each tube also having a narrower constant width slot communicating at one end with the first mentioned slot and extending to the extreme outer end of its respective tube, all of said slots being in registry; an outwardly projecting stop member fixed on the peripheral surface of each encompassed tube near its inner end, each stop member being aligned with the slot in its respective tube, and projecting diametrically outwardly and slidably engaging in the wider slot of its respective encompassing tube to prevent relative rotation of the tubes, one within the other, each stop member projecting outwardly slightly less than the wall thickness of its encompassing tube; and a similar stop member on the inner end of said rigid cylindrical member for similar cooperation with the wider slot in the innermost tube.

2,666,607
SUPPORT FOR COIN CONTROLLED MACHINES
George F. Hauf, River Forest, Ill., assignor to Chicago Metal Mfg. Co., Chicago, Ill., a corporation of Illinois
Application October 18, 1949, Serial No. 122,018
1 Claim. (Cl. 248—131)



A stand for a dispensing machine having a horizontal platform, a pair of aligned circular openings in said platform, a turntable mounted on said platform over each of said circular openings, each of said turntables comprising an open box like member having an inverted horizontally disposed angle ring member secured thereto and rotatable in each of said openings and a lower inverted angle ring member below said platform and secured to said first named ring member to prevent removal of the turntable, each of said inverted ring members having a horizontal and a vertical leg, and a locking mechanism mounted below said platform, said mechanism including a flat lever pivoted with respect to said platform between said circular openings and having a pair of elongated slots therein, a pair of slidable bolt members, a pin on each of said bolt members engaging in each of said slots, each of the lower angle ring members of said turntables having an opening in the vertical leg of the same engaged by one of said bolt members to prevent rotation of said turntable, said lever adapted when rotated to withdraw both of said bolt members from the openings in each of said vertical legs to permit simultaneous rotation of both turntables.

2,666,608
SUPPORTING APPARATUS
Carl E. Holm, Berwyn, Ill., assignor to Victor E. Kossian, Berwyn, Ill.
Application November 18, 1947, Serial No. 786,639
3 Claims. (Cl. 248—163)



1. A supporting unit comprising a pair of spaced tubular upright leg members having formed integral therewith generally horizontally extending and converging tubular metal upper end portions, a generally horizontally extending tubular metal sleeve arranged between and attached to said generally horizontally extending and converging tubular upper end portions of said leg members in substantially parallel extending relation thereto for detachably supporting a generally horizontally extending supporting element therein, and an auxiliary vertically extending supporting member including a substantially vertically extending supporting leg member projecting below said sleeve, said auxiliary supporting member including connecting means for detachably connecting said substantially vertically extending supporting leg member to said tubular sleeve.

2,666,609
TOOL SUPPORTING TRAY
Carl H. Ingwer, Elyria, Ohio, assignor to The Ridge Tool Company, Elyria, Ohio
Application August 19, 1948, Serial No. 45,017
7 Claims. (Cl. 248—165)



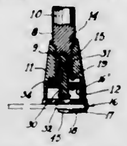
1. In a portable stand having a plurality of legs, a tray disposed among said legs, and means for supporting the tray in position on the legs including at least one portion along the marginal edge of the tray provided with an elongated horizontal slot, and at least one of the legs having a member extending horizontally therefrom and swingable in a horizontal plane, said member being engageable with said horizontal slot of the tray to extend through the slot by lateral swinging movement of said member and whereby the tray is held in position on the legs against upward and downward movement.

2,666,610
TRIPOD HEAD
Tom Nerman, New York, N. Y.
Application February 15, 1950, Serial No. 144,295
12 Claims. (Cl. 248—183)



1. A head comprising a base, a supporting arm mounted on the base for rotation in a horizontal plane relative to said base, a post secured to said arm, a yoke member mounted on said post for rotation in a vertical plane relative to the post, said yoke member comprising a vertical portion and a horizontal portion, and means for adjustably positioning said horizontal portion axially along said vertical portion, means for manually rotating said supporting arm and said yoke member, and means for attaching an instrument desired to be directed along a line of sight to said yoke member.

2,666,611
AUTOMOBILE MIRROR ATTACHING BRACKET
Benjamin Putterman, Fairfield County, Conn., assignor to Yankee Metal Products Corporation, Norwalk, Conn., a corporation of New York
Application April 18, 1950, Serial No. 156,649
2 Claims. (Cl. 248—226)



1. A device for attaching an automobile accessory to the flange of a car door, said device comprising a bracket supporting arm, a housing and a U-shaped channel member receivable therewithin and comprised of an inner leg and an outer clamping leg, means for adjusting said channel member toward and away from the housing, a tapped opening centrally of said arm and open to the housing and a theft preventing member freely receivable through an opening provided in the inner leg and having one end threaded for engagement in said tapped opening, an enlarged head at its other end to prevent disconnection of the channel member from the housing when the threaded end of said member is engaged into said tapped opening and having an intermediate section of such length that when the threaded end is passed through the opening in the inner leg of the channel member and engaged to its limit in the tapped opening, the enlarged head will be positioned fixedly in the space between the legs for a distance beyond the innermost face of the housing to permit the adjusting means to move the channel member through a range relatively to said fixedly positioned theft preventing member, to effect attachment and detachment of the channel member from the car door flange.

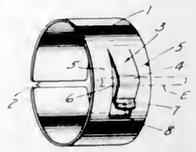
2,666,612
CHILD'S DISH HOLDER
Richard B. Howell, Milwaukee, Wis., assignor to The Kendall Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application May 11, 1949, Serial No. 92,631
3 Claims. (Cl. 248—310)



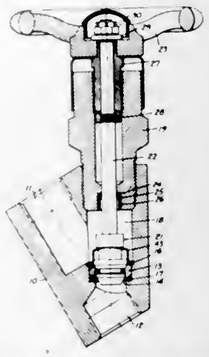
1. In combination, a dish supporting base plate, means secured on said plate for fastening it on a support such as a high chair tray, a pair of elongated curved dish securing clamps on said base plate, one clamp having one end pivotally attached to the base plate, and the other end secured to the base plate for limited sliding movement toward and away from the opposite clamp, and a spring latch on the base plate for holding said last named end of the movable clamp.

2,666,613
BOTTLE HOLDER
Grant R. Astleford, Minneapolis, Minn.
Application July 26, 1950, Serial No. 175,933
1 Claim. (Cl. 248—313)

A bottle holder comprising a split clamping ring having a resilient anchoring tongue circumferentially spaced from the split therein and extending therefrom in a plane perpendicular to the axis thereof, the inner end of the tongue being fixedly secured to the ring and the outer end and sides thereof being free of the ring, the tongue extending from its fixed inner end outwardly of the ring to an intermediate portion and from thence back toward and substantially to the outer surface of the ring to define with the ring a supporting wire receiving opening axially of the ring, the free end portion of the tongue being turned outwardly from the peripheral portion of the ring to define therewith a normally closed inlet passage to said opening allowing forced insertion of a supporting wire by cam action on the lip.



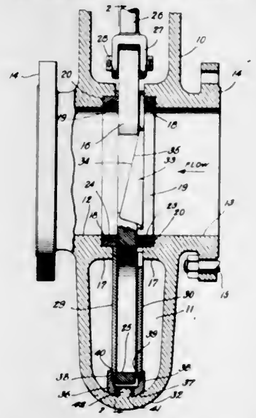
2,666,614
VALVE CONSTRUCTION
Marvin Henry Grove, Piedmont, and Austin U. Bryant, Berkeley, Calif., assignors, by mesne assignments, to Grove Regulator Company, Oakland, Calif., a corporation of California
Application May 15, 1948, Serial No. 27,308
2 Claims. (Cl. 251—27)



1. In a valve construction, a valve body member having inlet and outlet passages and formed to provide an annularly contoured throat orifice connecting said passages, said body providing a conical shaped valve seating surface on the inlet side of said throat orifice and a cylindrical orifice portion adjacent the conical surface, a valve member positioned within said body and movable in opposite directions between open and closed positions relative to the throat orifice, said valve member including a metal portion formed to provide a conical shaped valve working surface adapted to have abutting sealing engagement with the seating surface of the valve body for closed position of the valve member, said valve member also including a cylindrically shaped portion adapted to extend and fit into said cylindrical portion of the throat orifice for closed position of the valve member and to be retracted from the throat orifice for open position of the valve member, said valve member being formed to provide an annular groove in said cylindrical shaped portion of the valve member, a resilient seal ring disposed within said groove and proportioned to be compressed in a radial direction within said cylindrical throat portion for closed

position of the valve member to thereby form a fluid-tight seal between the valve member and the body, and an annular guard slidably carried by the valve member on the inlet side of the throat orifice, said guard for open position of the valve member being positioned to substantially embrace both said valve working surface and the resilient seal ring, and for closed position being retained adjacent the inlet side of said seating surface but in non-embracing relation with both the seal ring and said valve working surface.

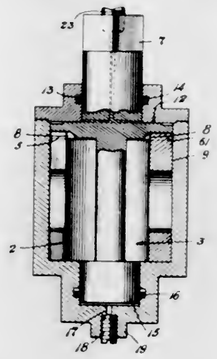
2,666,615
GATE VALVE
Milton P. Laurent, Houston, Tex., assignor to W-K-M Company, a joint venture
Application April 10, 1950, Serial No. 154,911
6 Claims. (Cl. 251—68)



1. A gate valve of the through conduit type comprising: a housing forming a valve chamber having aligned fluid ports; opposed parallel valve seats associated with said ports; a ported valve gate slideably mounted between said seats; means for moving said gate to open and close the valve; removable seat plates engaging said housing adjacent to said aligned fluid ports and positioned one on either side of said valve gate to protect the gate port when the valve is closed; and wedging means including an inclined surface on said gate and an inclined surface on one of said seat plates, said inclined surfaces making contact one with the other to force said gate into sealing engagement with one of said valve seats as said gate moves into closed position.

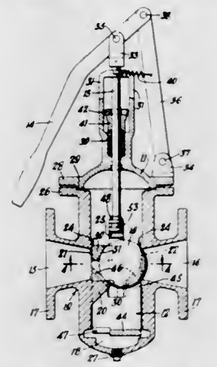
2,666,616
VALVE
George R. Ericson, Kirkwood, Mo., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application April 14, 1948, Serial No. 20,900
6 Claims. (Cl. 251—96)

1. In a valve structure, a valve casing having a vertical bore and transversely extending inlet and outlet openings, a valve plug in said casing arranged for rotative movement about its axis, said valve plug having inlet and outlet ports for registering with the inlet and outlet ports of said casing, and being formed as a tubular shell structure with the contour of the inner wall eccentric to the contour of the outer wall, and a valve stem for said plug separate from said valve plug whereby the latter may move relative to the stem, said valve stem including a radial flange adapted to normally engage the plug structure



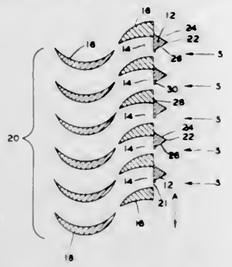
and also including vertically spaced ends of substantially equal area positioned above and below said tubular shell.

2,666,617
BALL VALVE
Herman L. Paul, Jr., New Rochelle, N. Y., assignor to Paul Valve Corporation, Essex Fells, N. J., a corporation of New Jersey
Application January 29, 1948, Serial No. 4,975
15 Claims. (Cl. 251—133)



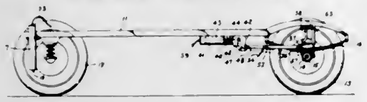
1. In a valve, a casing having a flow passage and a recess intersecting said flow passage to form opposed throats, one of said throats constituting a seat, a ball in said recess seatable on said seat, an actuator in said recess movable generally lengthwise thereof, said actuator being in the form of a cage and having a yoke straddling the flow space between said throats, said yoke including a hood at its closed end and terminating in abutments, said yoke having side stirrups extending from said hood and a locking wedge connecting said stirrups, said ball being loosely confined between said abutments and said locking wedge, said locking wedge being engageable with said ball on the side of said ball remote from said seat, a guide member on said casing having a guide surface adjacent but substantially out of said flow space, said locking wedge and guide surface being located on opposite sides of the axis of said flow space, an operator for operating said actuator, said guide member cooperating with said locking wedge to thrust said ball against its seat.

2,666,618
ROTARY THROTTLE BLADE DESIGN
John S. Jaquith, Caldwell, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application July 29, 1949, Serial No. 107,490
2 Claims. (Cl. 253—78)



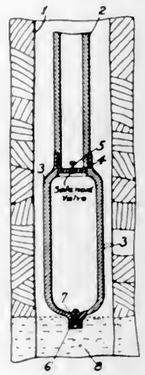
1. In the combination of a plurality of fixed, spaced stators defining sinuous inlet nozzles therebetween to receive and direct an airstream to a turbine wheel and a rotary throttle valve having a plurality of spaced blades, each blade being individual to and coacting with one stator and the inlet nozzle defined by that stator and the next adjacent stator in the direction of rotation of the turbine wheel, each blade effective on rotation of the throttle valve relative to the stator to move relative to its coacting inlet nozzle to vary the effective area thereof, an improved blade for the rotary throttle valve, said blade comprising a substantially prismatic body having a base adjacent its coacting stator and inlet nozzle and a relatively sharp apex extending into the airstream, the sloping surface between the apex and one side of the base terminating short of the base in a step having a first flat surface normal to the base and a second flat surface between the first flat surface and the sloping surface and parallel to the base and the sloping surface between the apex and the other side of the base merging into the base to form a knife-like edge with the base.

2,666,619
HYDRAULIC JACK SYSTEM FOR AUTOMOBILES
Louis R. Bloom, Fort Collins, Colo.
Application September 5, 1952, Serial No. 307,967
2 Claims. (Cl. 254—86)



1. In combination, a vehicle chassis frame having a longitudinal side member, an axle housing beneath and extending across said side member, resilient means mounting the side member on the axle housing, a bracket fixed on said side member comprising a longitudinal hydraulic cylinder and a housing at one end of the cylinder, a piston working in the cylinder having a connecting rod projecting into said housing, a bellcrank pivoted intermediate its ends on said housing, said bellcrank having a first crank arm having a free end pivoted to said connecting rod and a second crank arm having a free end, a jack bar having a lower end arranged to operatively engage the ground beneath said axle housing and an upper end, means pivoting the free end of the second crank arm to said jack bar at a point near the upper end of the jack bar, a lateral foot on the upper end of the jack bar arranged to supportingly engage over the axle housing in an upwardly pivoted and retracted position of the jack bar, retracting means normally urging said piston toward one end of said piston and through said bellcrank positioning said jack arm in an elevated and retracted position, and hydraulic means connected to said cylinder and operable to urge said piston toward the opposite end of the cylinder and operating through said bellcrank to pivot said jack bar away from the axle housing and disengage said foot from the axle housing and free the jack bar to fall into a vertical position with its lower end engaged with the ground and to move further downwardly relative to the rear axle so as to lift the chassis frame and the rear axle relative to the ground.

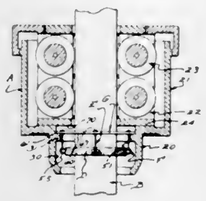
2,666,620
OIL WELL CORING METHOD
Henry J. Welge and Robert C. West, Tulsa, Okla., assignors to Standard Oil Development Company, a corporation of Delaware
Application May 29, 1948, Serial No. 30,102
3 Claims. (Cl. 255—1.4)



1. In oil well operations the process of obtaining unaltered core samples comprising the steps of injecting a molten thermoplastic material into the stratum to be tested, hardening said material in the stratum whereby the particles of stratum are bound, cutting a sample of the said stratum imbedded in the thermoplastic material, removing the said sample to the surface of the earth, and removing the thermoplastic material from said sample whereby a core is obtained wherein the sand grains are in a condition substantially the same as existed in said stratum, said thermoplastic material being characterized by having a melting point in the range of from 15° F. to 25° F. above the temperature existing in the bore hole at the point the sample is taken, said thermoplastic material being injected into said stratum at a temperature in the range of from about 20° F. to about 40° F. above the temperature at which said thermoplastic material melts.

2,666,621
WIPER FOR MEMBERS OPERATING IN WELLS
Gerald R. Hunt, Long Beach, Calif.
Application March 22, 1951, Serial No. 217,003
17 Claims. (Cl. 255—23)

1. An attachment for a rotary unit and adapted to engage an object extending through the unit including, a collar engaged around the object and a substantially vertical hanger having its lower end connected to the collar for limited movement relative thereto and having its upper end adapted to connect to the unit for limited



movement relative thereto, the collar having an annular rim and an eye on the rim at the outer periphery thereof and holding the hanger.

2,666,622
DETACHABLE BLADE BIT
Herbert J. Hawthorne, Houston, Tex.
Application December 29, 1947, Serial No. 794,239
9 Claims. (Cl. 255—61)



1. A detachable blade rotary drilling bit comprising, a plurality of blades each having a shank having at least one tapering surface, a body having a blade shank receiving portion, the blade shanks being engaged with said shank receiving portion of the body over an extended area so that the combined shanks extend about and encompass said shank receiving portion of the body, inter-engaging means between the body and shanks to prevent relative rotation therebetween, an internally tapered clamping collar, and means for forcing the collar over the shanks to directly engage the shanks over substantially the length of the shank receiving portion of the body to maintain same in clamped relationship on the body.

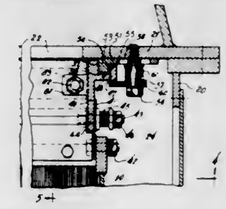
2,666,623
ICE BORING DEVICE
Melvin C. Johnson, St. Paul, Minn., assignor of one-half to Percy N. Ross, Minneapolis, Minn.
Application December 21, 1950, Serial No. 202,116
1 Claim. (Cl. 255—69)

In a device of the character described, a first annular collar, a pair of supporting straps contiguous with and extending upwardly from said collar, a handle integral with an upper portion of said supporting straps, a cutter blade mounted on and extending below and outwardly from said first collar, a second collar concentric with said first collar and mounted for slidable movement into and out of said first collar and along said supporting straps and fixed against rotative movement with respect to said first collar, and a positioning spike rigid with said second collar and



extending downwardly therefrom in concentric relation thereto.

2,666,624
INTERLOCKED SEAL FOR ROTARY REGENERATIVE PREHEATERS
Glenn E. Flurschutz, Wellsville, N. Y., assignor to The Air Preheater Corporation, New York, N. Y.
Application February 18, 1950, Serial No. 144,928
7 Claims. (Cl. 257—6)

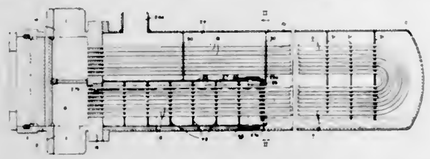


1. In a regenerative air preheater or the like having a cylindrical rotor shell carrying heat transfer material, and a housing surrounding the rotor and provided opposite either end of the latter with a sector plate formed with a pair of circumferentially spaced openings for the flow of heating gases and air to and through the rotor; a plurality of arcuate sealing members resiliently mounted on the outer surface of the rotor shell and together forming a circular sealing ring at or closely adjacent each end edge thereof; groups of sealing shoes of arcuate form resiliently mounted outwardly of the rotor shell on said sector plate, the shoes of each group together forming a stationary sealing ring of circular shape co-extensive with the arcuate sealing members; and means acting to maintain said arcuate shoes in sealing relation with the sealing members carried by the rotor.

2,666,625
HEAT EXCHANGE APPARATUS
Wilbur M. Byerley, Crum Lynne, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 20, 1951, Serial No. 247,512
4 Claims. (Cl. 257—32)

1. In a heat exchanger having a horizontally disposed shell and header structure forming a

heating space, means for admitting steam thereto, water tubes horizontally mounted therein and providing first and second passes, baffle structure enveloping portions of said tubes in one of said passes for enclosing a drain cooler section, said baffle structure including a horizontally disposed main portion and a relatively movable interial tube plate portion having openings in which said tubes are secured intermediate the ends thereof, said interior tube plate portion



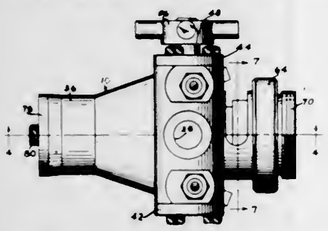
having a lower recessed edge forming an entryway for admission of condensate from said heating space to said drain cooler section, and expansion joint means interposed between said main portion of the baffle structure and said interior tube plate portion, comprising a plurality of interleaved plate elements carried by the respective main and tube plate portions of said baffle structure, said plate elements being slidably engaged in sealing relation.

2,666,626

GUN FOR HOMOGENIZING AND AERATING A FLOWING STREAM OF PLASTICIZED ADHESIVE MATERIAL

Max M. True, Tulsa, Okla.

Application April 17, 1953, Serial No. 349,345
3 Claims. (Cl. 259—151)



1. A gun for homogenizing and aerating a flowing stream of plasticized adhesive containing aggregates and for projecting said aggregate bearing adhesive onto a surface, said gun comprising an elongated body having an axial recess extending thereinto through one end thereof, said body having a transverse slot opening through the side thereof and communicating with the recess intermediate the ends thereof, said body having oppositely disposed curved passages therein which communicate with the recess in diametrically opposed relation and convergent passages therein which open into the curved passages remote from the recess, said body having a discharge passage opening through the end thereof remote from the recess which discharge passage communicates with the convergent passages adjacent the convergent ends thereof, a turning plug mounted in the recess to rotate about the axis thereof, said turning plug having an inlet passage opening through the end thereof remote from the body and also having diametrically opposed openings extending through the wall adjacent the inner end thereof for establishing communication between the inlet passage and the curved passages, means carried by the turning plug and extending through the slot for rotating said turning plug in the recess and selectively registering the openings with the curved passages, said body having jet passages therein which open into the curved passages in axial alignment with the convergent passages for introducing homogenizing and aerating air into plasticized adhesive material flowing through said passages, and said body having an air passage disposed therein which aligns with the axis of the discharge passage for directing an air blast against homogenized and aerated adhesive material issuing from the convergent passages and propelling said material through the discharge passage and onto a surface.

2,666,627

MINING MACHINE WITH WEDGE-TYPE CUTTER

Ernest Donald Merton Gullick, Glasgow, Scotland, assignor to Mavor & Coulson, Limited

Application February 25, 1950, Serial No. 146,170
10 Claims. (Cl. 262—8)



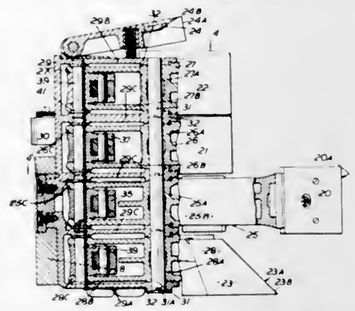
1. A machine for mining coal or other mineral by moving along a seam and of the type stated comprising a cutter head, a cutter which is mounted on said head so as to cut a new face longitudinally of the seam and so as to be movable laterally under the influence of the mineral, said cutter being arranged on the head to make an acute angle with the new face, a heel associated with the cutter and arranged within said angle between the cutter and the face, means for moving the heel laterally relative to the cutter, control apparatus for controlling the operation of said heel-moving means, and means operatively connecting the cutter and said control apparatus, said connecting means acting whenever the cutter moves to cut deeper into the mineral to operate the heel-moving means to thrust the heel wedgewise into the angle between the face and the cutter and thus withdraw the cutter, whereas if the cutter moves to cut shallower the heel is withdrawn by the operation of said heel-moving means so that the cutter can return.

2,666,628

MINING MACHINE WITH SUPERPOSED WEDGE-LIKE CUTTER

John Connel Sproul, Glasgow, Scotland, assignor to Mavor & Coulson, Limited, Glasgow, Scotland

Application February 25, 1950, Serial No. 146,181
3 Claims. (Cl. 262—8)



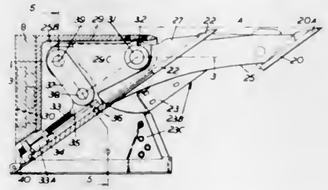
3. A mining machine of the type stated having a cutter-supporting head, a plurality of superposed cutters pivotally mounted on said head so as to be laterally movable in relation thereto, supports whereby said head is divided at different levels, a plurality of superposed co-axial pivot pins attaching the individual cutters to said supports, and manually adjustable superposed means for adjusting the cutters laterally about their pivot pins, there being one of said pivot pins and one of said adjustable means for each cutter at the level of said cutter and said pivot pins and adjustable means being removable so that the cutters are detachable from the head and interchangeable in order that each cutter can be mounted at a selected level on said head.

2,666,629

ADJUSTABLE CUTTER FOR STRIP MINING MACHINES

John Connel Sproul, Glasgow, Scotland, assignor to Mavor & Coulson, Limited

Application February 25, 1950, Serial No. 146,182
2 Claims. (Cl. 262—8)



1. A mining machine of the type stated having a cutter head, a casing incorporated in the cutter head, a detachable cover on said casing, a lever which is fulcrumed inside said casing so as to be angularly movable in relation thereto, a cutter carried by said lever so as to project both laterally and angularly forwards outside said casing, a turnable cutter-adjusting screw journalled on said cover to have a stationary location inside said casing, a nut through which said screw is threaded, the nut being movable along the screw, a link pivotally connected to said nut and to said lever in the manner of a toggle so as to force the lever powerfully into a setting giving a required extent of projection and degree of angularity to the cutter in relation to the casing whenever the screw is rotated, and a guideway provided on the inner side of said cover, said guideway being stationarily located inside said casing and said nut being slidable along the guideway on rotation of said screw so that said guideway provides the reaction to the powerful thrust and pull of said link and confines said nut and screw to purely axial stress despite the angular movements of said lever and link.

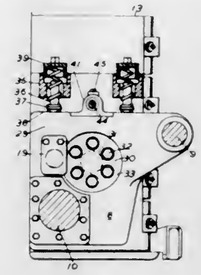
2,666,630

MINING MACHINE

John Connel Sproul, Glasgow, Scotland, assignor to Mavor & Coulson, Limited, Glasgow, Scotland

Application February 25, 1950, Serial No. 146,183
5 Claims. (Cl. 262—8)

2. A mining machine of the type stated having a longitudinal frame component, a cutter-carrying head component to bear upon a mine floor in order to support the weight of the machine at the leading end of said frame component, said head component being arranged when occupying its normal working position to cut mineral from a seam in an approximately vertical plane at one side of the machine, a connection between said head and frame components such that the head component is tiltable sidewise in relation to its normal working position by heavy forces reactionary to the work of the cutter head component and the weight of the machine, and yieldable pressure means mounted on one of said components and pressing against the other of said components to maintain the head component in its normal working position but yielding due to sidewise tilting of the head component when subjected to excessive reactionary force.

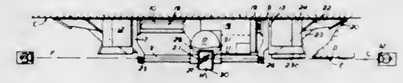


2,666,631

STEERING INDICATOR FOR MINING MACHINES

John Bridie Mavor, Glasgow, Scotland, assignor to Mavor & Coulson, Limited, Glasgow, Scotland

Application March 4, 1950, Serial No. 147,640
8 Claims. (Cl. 262—8)



1. For a mining machine of the type comprising a body with a cutter head for wedging off mineral from the face of a seam in a mine, means for propelling the machine along said face in a predetermined straight path of travel towards an objective and a carriage which carries said propelling means and which is guided to move relatively to said body in opposite directions along the body, a steering indicator comprising an index arranged at a forward location on the machine body and a mirror arranged on said carriage at a location longitudinally aligned with said index but spaced rearwardly therefrom to an extent which varies with the two-directional relative movements of the carriage, said mirror being set at an inclination so as to face partly forwards towards the index and laterally outwards towards an operator in order to reflect both the objective and the index to the operator when the machine is being steered along said path.

2,666,632

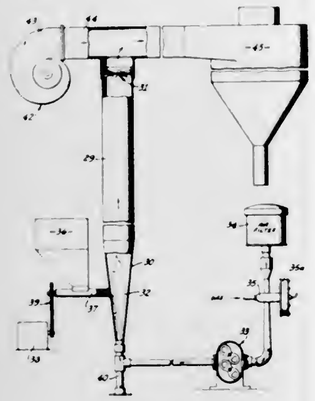
PERLITE POPPING FURNACE

Perrin Curtis Culver, South Gate, and James G. Kelly, Los Angeles, Calif.; said Culver assignor to said Kelly

Application October 29, 1949, Serial No. 124,386
9 Claims. (Cl. 263—21)

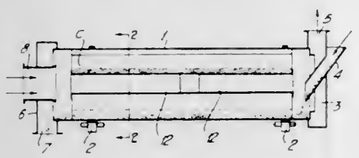
1. In a furnace for popping perlite, and the like, the combination of: an elongated shell, means for producing a flow of combustible gaseous material longitudinally through the shell, burner means for maintaining combustion of the gaseous material as it enters the shell, means near one end of the shell for introducing perlite to be popped into the shell, and a reflector baffle

near the other end of the shell constructed to reflect compression waves in the gaseous material in a direction opposite to that of the flow of the gaseous material but permitting passage



therethrough of gaseous material and popped perlite, the reflector baffle comprising a plurality of radially extending stationary inclined blades for producing a whirling motion in the flow of gaseous material.

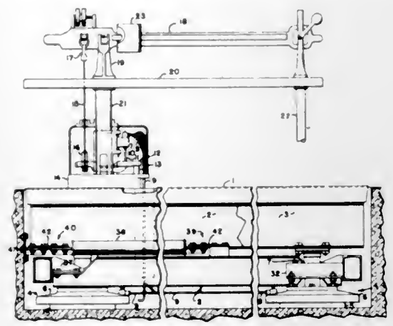
2,666,633
ROTARY DRIER, KILN, AND THE LIKE
Gustav Bojner, Stockholm, Sweden
Application December 5, 1949, Serial No. 131,217
Claims priority, application Sweden October 6, 1949
5 Claims. (Cl. 263—33)



1. An apparatus for the treating of pulverulent goods with hot gases, comprising a substantially cylindrical rotatable drum and a freely rotatable cage having an eccentric position in said drum and consisting of a central core and longitudinal, substantially radial partitions of different lengths forming channels for passing the pulverulent goods and the hot gases in direct contact with each other.

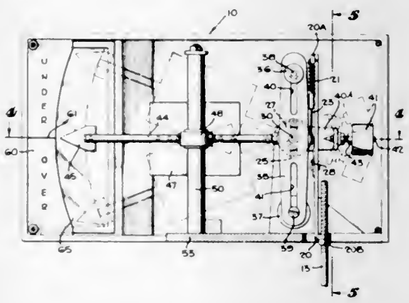
2,666,634
HYDRAULIC SCALE CHECK LINK
Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application May 12, 1951, Serial No. 225,936
6 Claims. (Cl. 265—47)

1. In a hydraulic weighing scale, in combination, a plurality of hydraulic capsules, a load receiver supported jointly by the capsules, said capsules each comprising a stationary and a movable member, a frame interconnecting the movable members of the capsules, a fixed anchorage, and a member connecting said frame to said fixed anchorage in a manner such as to permit



vertical movement of the frame while restraining the frame against horizontal movement.

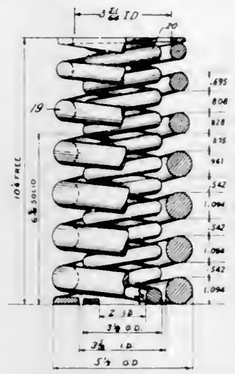
2,666,635
BALANCE INDICATOR
Raymond B. Holt, Alhambra, Calif.
Application October 18, 1948, Serial No. 55,029
7 Claims. (Cl. 265—58)



1. A balance indicator comprising a drum; an indicator arm connected to said drum for pivotal movement about the axis of said drum; an eddy current producing means arranged to retard abrupt changes and movement of said arm; said eddy current producing means comprising a magnet and a relatively movable eddy current plate, said eddy current plate being firmly affixed to said arm for pivotal movement about the axis of said drum; an actuating rod; flexible tape members wound in opposite directions about said drum with one each of their ends secured thereto, spring means, one of said tape members being connected to said actuating rod and the other one of said flexible tape members being connected to said actuating rod through said spring means.

2,666,636
VEHICLE SPRING SUSPENSION
Cal W. Wulff, Chicago, Ill., assignor to Holland Company, a corporation of Illinois
Application March 8, 1951, Serial No. 214,543
5 Claims. (Cl. 267—4)

1. In a spring suspension, a plurality of springs acting in parallel to support a given load, one of said springs having a constant load-deflection rate and another having a variable load-deflection rate, the composite rates of said springs



lying substantially on a curve defined by the formula

$$f = K \operatorname{Log}_e \frac{W}{1000} + C$$

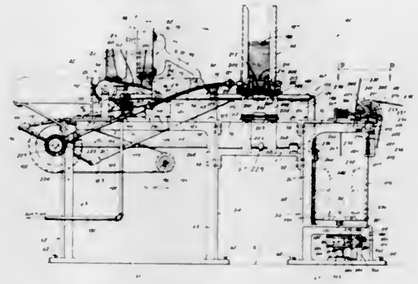
in which
f=deflection
K=the constant effective static deflection
W=the load in thousand pounds
C=the constant of integration
Log_e=Napierian logarithms in which the base is 2.718281828.

2,666,637
LEAF SPRING STRUCTURE
Edward H. Lindeman, Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application June 11, 1949, Serial No. 98,510
2 Claims. (Cl. 267—49)



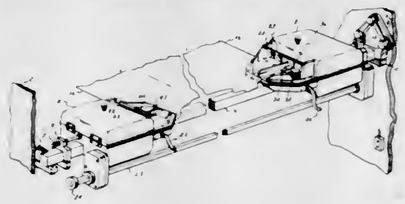
1. In a leaf spring assembly comprising superimposed spring leaves, one of the spring leaves having a longitudinal groove in its surface extending the length thereof, a spacer comprising an elongated relatively flat strip of material interposed between adjacent spring leaves having a rib formed integrally therewith of equal thickness to the other portions of the spacer extending longitudinally a portion of its length oppositely disposed to a recess in its opposite surface with one end of the rib spaced a shorter distance from one end of the spacer than the other end of the rib is spaced from the opposite end of the spacer received in fitting relation in the groove of the one spring, said spacer having an opening extending through the thickness thereof longitudinally disposed from the rib intermediate the end of the spacer from which the rib is furthest spaced and one end of the rib and fastener means extending through the opening in the spacer securing the spacer to the spring leaf adjacent the one having the groove at a point along the longitudinal axis of the rib but removed a distance therefrom, said fastener having a portion thereof overlying the surface of the spacer upon which the rib is provided protruding into the groove of the adjacent spring leaf in which the spacer rib is received.

2,666,638
CALENDAR HANDLING MACHINE
Louis E. Taylor, Maplewood, Mo.
Application March 13, 1947, Serial No. 734,430
18 Claims. (Cl. 270—53)



1. In a device of the kind described, in combination, means for receiving a stack of flat objects such as calendar backs, means for feeding received objects forwardly from the bottom of a received stack to a pickup station, said feeding means including means for disposing a plurality of received objects in lateral offset relation prior to their reaching the pickup station and for moving said offset received objects simultaneously toward the pickup station, means for separating the bottom received object at the pickup station at least in part from the next above received object, means for moving said bottom received object forwardly from beneath other received objects at the pickup station to a stitching station, means for receiving another stack of flat objects such as calendar pads, means for moving a flat object of the second stack to the stitching station into superposed position in respect to a received flat object, and means for moving a stitched unit away from the stitching station.

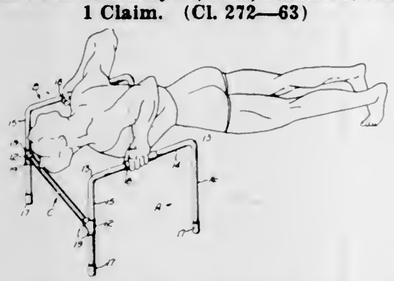
2,666,639
WEB CENTERLINE CONTROL DEVICE
Joseph C. Frommer, Cincinnati, Ohio, assignor to Electric Eye Equipment Company, Danville, Ill., a corporation of Delaware
Application May 14, 1951, Serial No. 226,158
5 Claims. (Cl. 271—2.6)



1. A device for centering a moving web varying in width along a longitudinal center-line comprising signal sending means positioned adjacent each edge of said web, signal receiving means positioned with respect to said web and said signal sending means so as to be responsive to the transverse position of the edges of said web with respect to said signal sending means, means adjusting the distance between said signal sending means disposed on each side of the web along a line generally transverse to said center line, means responsive to signals received by either or both of said signal receiving means controlling said width adjustment of said signal sending means in accordance with varying widths

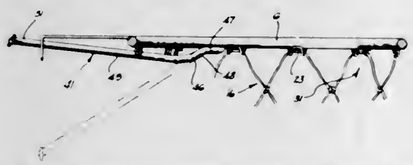
in said web independent of the centering of said web, and means responsive to signals received by both of said signal receiving means indicating the center of said web relative to said centerline.

2,666,640
EXERCISING STAND
Kenneth L. Jennings, Sr., Lakewood, Ohio
Application February 29, 1952, Serial No. 274,171
1 Claim. (Cl. 272—63)



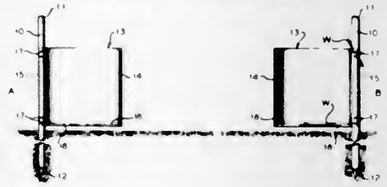
In a collapsible and portable device of the character described, the combination of a pair of inverted U-shaped end frames each having a vertical front leg and a rear leg joined by a push-up bar arranged above the floor at approximately the height of the average person's knee joint when standing upon the floor whereby a person may grip said push-up bars to support his weight to perform calisthentics, said legs having anti-skid foot portions engageable with the floor, and a horizontal thrust resisting bar carrying elongated vertical bearing and thrust sleeves at its ends, the medial portions of the lengths of corresponding front legs of said two end frames being rotatably mounted in said bearing and thrust sleeves whereby said end frames can swing individually as units in said sleeves on vertical axes, said thrust resisting bar being arranged above the floor in a substantially horizontal plane midway the height of said front legs and with said bearing and thrust sleeves rotatably mounted upon said medial portions of said vertical front legs to prevent outward bending, tilting and spreading apart of said front legs and end frames caused by outward thrusts exerted thereon by the weight of a person imposed upon said push-up bars by his arms pushing outwardly thereon from between the same, said elongated bearing sleeves distributing said outward thrusts of said end frames over extended lengths of said front legs, and said horizontal thrust resisting bar serving as a gage means which may be touched by the person's nose to inform him how far to lower his body during push-up exercises.

2,666,641
BASKETBALL GOAL ATTACHING MEANS
Alvin Bond Bonham, Pomona, Calif.
Application March 30, 1950, Serial No. 152,785
1 Claim. (Cl. 273—1.5)



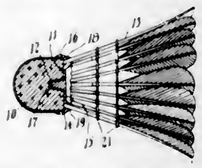
A device for attaching a basketball goal net to a goal ring comprising a double hook member secured at its mid portion to the under surface of said ring in spirals of right and left hand pitch both ways from said mid portion with the whorls of said spirals spaced from said ring by a distance slightly less than the normal diameter of a strand of said net whereby said strand can be forced therebetween to become engaged with or to be released from said spirals but whereby dislodgment of said strand from said spirals during use of said goal as such is prevented, said mid portion extending substantially vertically downwards from said ring and being disposed substantially tangential with respect to both of said spirals whereby said mid portion is offset laterally with respect to the axes of said spirals and a strand of said net can be moved laterally between said whorls and said ring when stretched in a straight line substantially parallel to the associated portion of said ring, and the outer end of each of said spirals terminating in a portion extending substantially horizontally at least to the vertical plane which includes said mid portion whereby said strand must be flexed from said straight line and about said mid portion in order for said strand to move laterally past both of said ends.

2,666,642
PEG AND RING GAME APPARATUS
Howard Lee Ward, Evansville, Ind.
Application January 23, 1950, Serial No. 140,095
3 Claims. (Cl. 273—100)



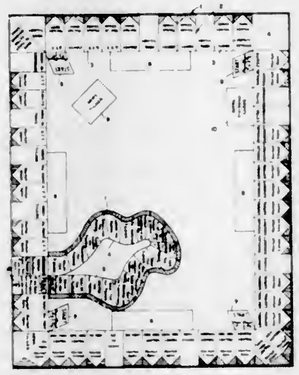
1. In a game device, a vertically disposed post provided with a sharpened lower extremity, a receptacle attached to said post intermediate the extremities thereof, said receptacle comprising a vertically disposed peripheral wall including opposed arcuate flanges engaging opposite sides of said post, said flanges and post being provided with aligned spaced apertures for the reception of fastening members, a plurality of inwardly directed ears on the lower edge of said peripheral wall forming a bottom for said receptacle, said ears being spaced from each other to permit drainage, and annular members to be tossed over said post.

2,666,643
SHUTTLECOCK AND METHOD OF MANUFACTURE
John William Miller, Toronto, Ontario, Canada
Application October 24, 1947, Serial No. 781,811
6 Claims. (Cl. 273—106)



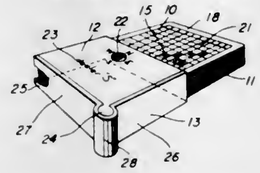
1. In a shuttlecock having a cork head and feathers, a crown forming a mounting unit for the feathers, said crown having a perforated disc portion in which the shafts of the feathers are inserted and having an annular flange portion sleeved on the cork head, and a weighting device carried by said disc portion and projecting into the cork head, said weighting device being rigidly supported by said head portion independently of said cork head.

2,666,644
GAME BOARD APPARATUS
Richard A. Strehlow, Champaign, and Walter A. Heiby, Chicago, Ill.
Application February 15, 1951, Serial No. 211,082
5 Claims. (Cl. 273—134)



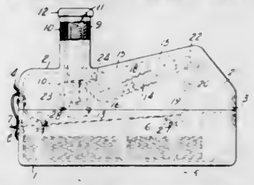
1. A game board apparatus comprising a board having a playing path thereon divided into a plurality of segments, certain of said segments being designated to constitute a distinguishable group of segments and there being a plurality of such groups in said path each differing from the other by individual distinguishing characteristics, said groups being arranged in succession along the course of said playing path and in such a manner that the segments adjacent one end of each group intermixed with those of the adjacent end of the next succeeding group, and each group being so arranged that, from end to end, its segments numerically predominate the intermixed segments of the adjoining groups, a set of individually distinctive playing pieces for registering movement and position of each player along said path, and means for determining by chance the extent of at least two alternative playing moves on said board for each player.

2,666,645
PREARRANGED CARD DEALING DEVICE
Clair A. Phillips, Waco, Tex.
Application July 14, 1949, Serial No. 104,631
7 Claims. (Cl. 273—149)



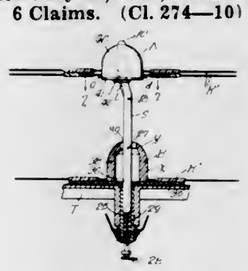
1. In combination with a template having a single opening therein at a predetermined position, a holder for receiving the template, a deck of playing cards, each card having indicia on its back arranged in a predetermined manner so as to indicate a plurality of possible destinations, the cards being insertable in the holder beneath said template so as to aline one of the indicia of the uppermost card with the template opening and render said indicium visible through said opening for denoting the destination of said card, and a lateral projection on said template, said holder having a recess for receiving the lateral projection to detachably connect said template to said holder and an open top to permit insertion of the cards and template from above, said template being substantially square and one-half the size of said cards so as to overlie one end portion and expose the other end portion of said cards and facilitate dealing thereof.

2,666,646
PLAYING CARD DEALING DEVICE
Frank Cicero, Los Angeles, Calif.
Application March 29, 1951, Serial No. 218,153
9 Claims. (Cl. 273—149)



1. A card dealing device including: a receptacle adaptable as a card magazine; a cover operative to be firmly locked on said receptacle and to permit access into the same; an operating mechanism operative to pick up and eject each top card from a pack resting horizontally in the magazine; means on and depending within the cover housing and supporting said mechanism; means supported on the cover and vertically operative to activate said mechanism, said means operative to activate said operating mechanism including: two U-shaped guide members extending vertically through said cover; knob means slidable between and within the guide members and operative in one direction; spring means operative to return said knob means to its original position; track means on said knob means formed by a grooved portion of inverted Y shape in cross section, and said operating mechanism including: a connection means carried by a portion of said supporting means of the cover and adaptable to be engaged at the front end for forward and backward motion by said track means; and a card ejection means carried by another portion of said supporting means of the cover and engageable by the back end of said connection means.

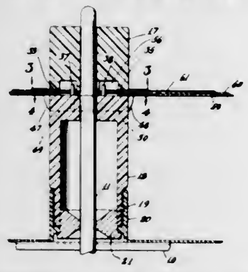
2,666,647
ADAPTER FOR PHONOGRAPH RECORDS
Colin B. Dale, Oak Park, Ill., assignor to Webster-Chicago Corporation, Chicago, Ill., a corporation of Illinois
Application May 22, 1951, Serial No. 227,606
6 Claims. (Cl. 274—10)



1. For use with a phonograph having a rotatable turntable and coaxially thereof an upstand-

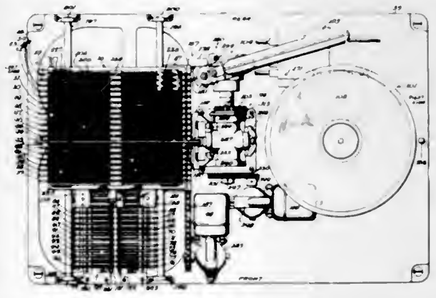
ing spindle of relatively small diameter provided intermediate its ends at one side thereof with a shoulder to support a stack of reserve records having center holes of correspondingly small diameter, said spindle mounting within itself a head movable radially of the spindle to push off the reserve record resting on the shoulder, an adapter having a cylindrical housing for receiving and centering, with respect to the portion of the spindle above the shoulder, a stack of reserve records having relatively large diameter center holes, said housing having an axial opening for receiving the portion of the spindle above the shoulder and being seated in a fixed position on the spindle, a pair of elongated horizontal slide plates of equal length arranged with the body of one disposed above that of the other, means providing a mounting for the two plates to permit movement thereof transversely of the housing at a point adjacent its base, each slide plate being slightly longer than is the housing diameter whereby one end of each plate remains protruded outwardly therefrom when the other end is flush therewith, means interconnecting the slide plates for equal and opposite concurrent movements to compel one end of the lower plate to protrude beyond the confines of the housing when the opposite end of the upper plate is similarly protruded, and vice versa, the two slide plates in adjacent end portions being inclined oppositely out of the horizontal whereby to position the proximate end of each plate at a level oppositely of the body of the other plate, the lower slide plate, when protruded at one end beyond the housing, acting through the interconnecting means to compel the opposite end of the upper slide plate to be similarly protruded, the protruded ends of the slide plates at the lower level being located just under the lowermost reserve record, when positioned on the housing, to afford a releasable support therefor and the position of the slide plate ends at the upper level being just under the next higher reserve record to afford a releasable support therefor, the lower slide plate body having means lying in the path of the push-off head of the record release mechanism and engageable thereby to be operated therefrom whereby to permit a gravity seriatim release of the reserve records on the adapter housing.

2,666,648
ADAPTER FOR PHONOGRAPH SPINDLES HAVING INTERNALLY POWERED RECORD PUSH-OFF MECHANISM
Colin B. Dale, Oak Park, Ill., assignor to Webster-Chicago Corporation, Chicago, Ill., a corporation of Illinois
Application April 16, 1952, Serial No. 282,634
7 Claims. (Cl. 274—10)



1. For use with a phonograph having a rotatable turntable, and a spindle of relatively small diameter provided intermediate its ends with a shoulder to support a stack of records having center holes of correspondingly small diameter, said spindle mounting within itself a head to push off the record resting on the shoulder; an adapter having a first element for receiving and centering with respect to the portion of the spindle above the shoulder a stack of records having large diameter center holes, said element having an opening for receiving the portion of the spindle above the shoulder, a second element attached to the first element and internally divided therefrom by a mounting plate, two upper horizontal supports normally confined within the first element mounted on the plate in cooperative relation with the pushoff head of the spindle, means controlled by the head for actuating said supports laterally to protrude beyond the outside circumference of the first element to support the second record from the bottom of the stack at the edge of its center hole, two lower horizontal supports within the second element below the mounting plate normally protruding beyond the outside wall of the second element to support the lowermost record of the stack at the edge of its center hole, and a motion transmitting interconnection between the upper and lower supports to contract the lower supports within the confines of the second element when the first supports are actuated to protrude beyond the first element.

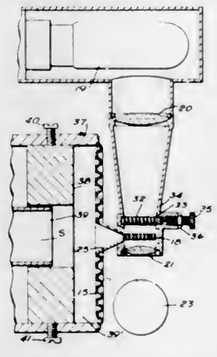
2,666,649
RECORD CHANGER
Harry Herbert Vanderzee, Racine, Wis., and Robert A. McCallum, Clarendon Hills, Ill., assignors, by mesne assignments, to A M I Incorporated, a corporation of Delaware
Application October 21, 1946, Serial No. 704,588
6 Claims. (Cl. 274—10)



3. In an automatic phonograph, in combination, a record selector and a record magazine mounted for relative reciprocating transverse movement with respect to each other; the magazine having means for supporting a multiplicity of disk records in face-to-face relationship, and the selector including a multiplicity of selector levers each shiftable between an operative and an inoperative position and arranged in side-by-side relation in two parallel banks, with the banks of levers longitudinally disposed with respect to the magazine; with individual electromagnets operatively associated with each of said levers and adapted when energized to shift any one of said levers from inoperative position to operating position wherein a portion of the lever projects beyond a plane defined by the surfaces of the levers in inoperative position, and with toggle spring mechanisms for holding the levers individually in operative or inoperative position; a bail bar extending over each bank of selector levers and electrical switch means operatively connected with said bail bars and responsive to the movement of any one of the selector levers

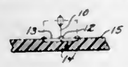
to operative position; a pair of cooperating electrical switches mounted on the magazine and adapted to control the reciprocating movement thereof; one of said switches having an actuating lever adapted to traverse one bank of selector levers and the other switch having an actuating lever adapted to traverse the other bank of selector levers, with an overrunning unidirectional trigger on each of said actuating levers whereby one switch is actuated by moving in one direction over a selector lever in operative position, and the other switch is actuated when moved in the opposite direction over a selector lever in operative position.

2,666,650
SOUND PICKUP AND REPRODUCING APPARATUS
John MacDonell, Redwood City, Calif.
Application February 7, 1951, Serial No. 209,724
1 Claim. (Cl. 274—27)



In sound reproducing apparatus, a pickup including, a circular diaphragm having concentric corrugations surrounding a central integral cup portion extending inwardly of the diaphragm and carrying a deflecting element for transmitting vibrations imparted by the effects of sound on the corrugated area of the diaphragm to a sound reproducing or recording system, and a casing in which said diaphragm is mounted with sound translating elements of the reproducing or recording system housed therein, the portion of the casing forward of the diaphragm being formed to provide a cylindrical sound chamber concentric with the diaphragm with a forward sound receiving opening also concentric thereof, a cylindrical bushing slidably mounted in said sound chamber in front of the diaphragm, said bushing having a sound opening concentric thereof and in alignment with said sound receiving opening, and means for moving said bushing forwardly and rearwardly with respect to the diaphragm for varying the effective volume of the sound chamber in front of the diaphragm.

2,666,651
MASTER SOUND RECORD
Earle W. Jones, Hastings-on-Hudson, N. Y.
Application January 12, 1949, Serial No. 70,445
2 Claims. (Cl. 274—42)



1. A master record comprising a record disc having a wholly sound recorded laterally undulatory spiral sound groove of constant width, constant depth and constant transverse cross section at right angles to the axis of the groove, the side walls of the groove being symmetrical in respect to the axis and carrying the undulations impressed by the sound impulses of the original recording, said undulations being parallel to the surface of the record and free from any vertical components whereby the extent of lateral undulations are the same from the surface of the record to the bottom of the groove and the cross section of the groove at right angles to the axis being the same in both sound modulated and unmodulated portions of the groove.

2,666,652
SKI SLEIGH
Harold C. F. Lammers and Bessie B. Lammers, Akron, Ohio
Application October 5, 1951, Serial No. 249,976
1 Claim. (Cl. 280—21)

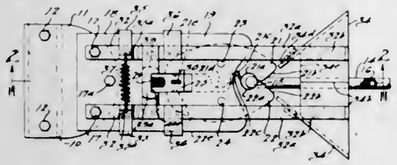


A sleigh comprising a body having a body portion adapted to support a rider; a plurality of supports carried by said body portion at opposite sides thereof, said supports being rigid at their upper ends with and depending from the respective sides of the body portion; runners hingedly connected to the lower ends of the respective supports, the axes on which said runners are hinged for swinging movement being arranged longitudinally and centrally of the runners and being spaced above the upper surfaces of the runners; arms rigid with and upstanding from the respective runners; a bar of rigid formation from end to end thereof connected pivotally at its opposite ends to the upper ends of the respective arms and arranged transversely of the body so as to swing the arms to inclined positions when shifted transversely of the body in a selected direction, thus to tilt the runners bodily on their hinge connections so as to steer the sleigh in a direction selected by said rider, the pivotal connections of the bar to the respective arms being confined to relative movement of the arms and bar about axes paralleling the hinge axes of the runners, said bar including an angle bracket rigidly secured to and extended forwardly from the midlength point of the bar, said bracket having a slot; a lever fulcrumed between its ends upon the underside of said body for swinging movement in a horizontal plane, said lever having a pin at one end extending through the slot for pivotally connecting the lever at said end to the bar, the bar having rectilinear movement transversely of the body responsive to rocking of the lever on its fulcrum; a steering bar extending transversely of and overlying the body and fulcrumed intermediate its ends upon the body; and a crank arm rigid with and extended rearwardly from said steering bar toward the first-named bar and having a slot, said lever having a pin extended through the second-named slot to pivotally join the crank arm to the other end of said lever, thus to rock the lever responsive to pivotal movement of the steering bar under the control of a rider.

2,666,653
COUPLING DEVICE WITH GUIDE MEANS
Harold F. Diuble, Ann Arbor, Mich.
Application August 22, 1950, Serial No. 180,858
7 Claims. (Cl. 280—478)

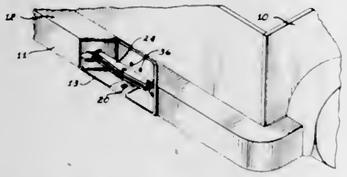
6. In a device for coupling two vehicles, coupling means adapted to be carried by one ve-

hicle comprising shiftable means movable into articulated locking engagement with a second coupling means carried by the other vehicle, said shiftable means having detent engaging portions movable therewith to a detent engaging position upon movement of said shiftable means into said interlocking engagement with said second coupling means, a pair of swinging guide members mountable on said one vehicle to swing with the coupled coupling means upon turning of the vehicles, said guide members at a guiding position



having portions extending beyond the shiftable means and converging generally thereto to guide said coupling means into engagement with each other, detent means movable into engagement with said detent engaging portions to hold the coupled coupling means in said interlocking engagement and also movable to a position out of engagement with said detent engaging portions, and means carried by said guide members and engageable with said detent means in the last named position to hold said guide portions in said guiding position.

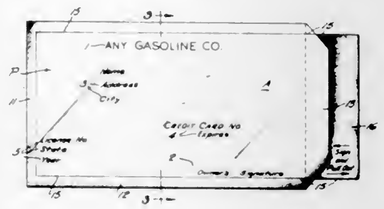
2,666,654
UNIVERSAL BUMPER HITCH
Charles E. Gray, Tolleson, Ariz., assignor to Phoenix Engineering & Mfg. Company, Phoenix, Ariz.
Application March 12, 1953, Serial No. 341,993
5 Claims. (Cl. 280—492)



1. A universal bumper hitch comprising, a housing rigidly fixed to the chassis of a towing vehicle, a pair of transversely spaced trunnion bores formed in said housing, a pair of clevises, a trunnion on each of said clevises adapted to be received by said trunnion bores, a bolt and pivot pin carrying portion on each of said clevises, a body portion interconnecting said trunnion and bolt and pivot pin carrying portion of said clevises, offset inner surfaces on said clevises adapted to engage abutment surfaces on said clevises when said trunnions are inserted in said trunnion bores, and clamping means to secure said clevises together as a rigid unit journaled on said trunnions in said housing.

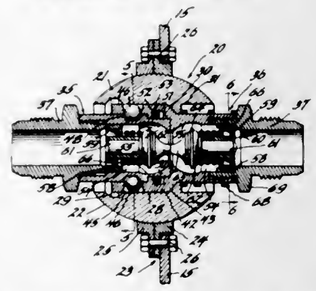
2,666,655
IDENTIFICATION CARD OR THE LIKE
William H. Wolowitz, Washington, D. C.
Application August 15, 1950, Serial No. 179,583
1 Claim. (Cl. 282—25)

A sealed case comprising a pair of front and back case members provided from plastic sheet material, a contrasting frosted surface which is relatively hard and smooth provided directly on the inner faces of both of said case members, the contrasting frosted surface on the inner face of the front case member defining a data surface adapted to receive an inscription which is visible from the outer face of said front case member, a removable reproducing sheet associated with said data surface adapted to reproduce on said data surface an image of an inscription made on a case member and transmitted to said



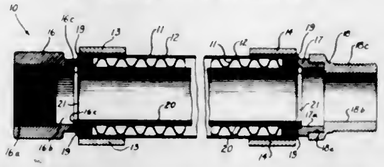
reproducing sheet, the contrasting frosted surface on the inner face of the back case member serving as a background for the image reproduced on said data surface whereby said image has a pronounced well defined appearance, said case members being secured together to seal said data surface in the case against access, and said case having a preformed passage providing for the removal of said reproducing sheet without mutilating or destroying said sealed case.

2,666,656
BREAKAWAY COUPLING FOR FLUID CONDUITS
Earl F. Bruning, Lincoln, Nebr.
Application December 20, 1950, Serial No. 201,745
3 Claims. (Cl. 285—35)



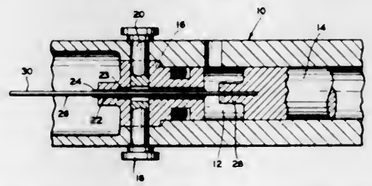
1. In combination with an engine nacelle, a fire wall in said nacelle having an opening, a coupling structure completely filling said opening, said coupling structure comprising a sleeve, means mounting said sleeve for universal movement in said opening, a pair of telescoped nipples in sealing relation axially slidable in said sleeve and occupying normal positions relative to each other and relative to said sleeve in fluid-flowing relation, said nipples being adapted for connection with pipe sections for the flow of fluid therethrough, locking means fixing said nipples against relative axial movement when in said normal positions, means for releasing said locking means from one of said nipples upon the transmission of a pull thereto moving said nipples in a direction away from their normal positions relative to said sleeve, a normally open valve in the other of said nipples, and means automatically closing said valve when said nipples are disconnected.

2,666,657
CORROSION-RESISTING FLEXIBLE CONNECTOR
John G. Howard and Raymond Harry Thomas, Chicago, Ill., assignors to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey
Application February 17, 1950, Serial No. 144,714
3 Claims. (Cl. 285—206)



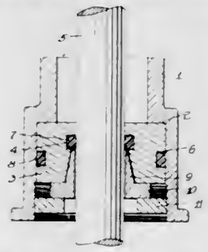
1. A corrosion-resistant flexible electrical conduit comprising, inner, outer, and intermediate concentric sleeves consisting of a flexible corrosion resistant metal braided sleeve, a flexible tubular loom of electrically non-conductive, heat consumable material, and a flexible bellows-like corrosion-resistant metal tube, respectively, a female coupling connector having a bore extending therethrough of larger diameter than said loom but of smaller diameter than said tube, a protective ring surrounding the end of said concentric sleeves adjacent said coupling connector, an annular welded joint of corrosion-resistant metal integrating by high temperature thermal fusion said coupling connector, said ring, said braided sleeve, and said tube, and a retainer member inserted in said bore of said coupling connector and in firm assembly therewith and being of smaller diameter than said loom, said loom being inserted through said bore of said coupling connector only after said welded joint is sufficiently cooled to preclude consumption of said loom, and said retainer being inserted in said bore to retain said loom in said conduit.

2,666,658
MOTION TRANSMITTAL AND SEALING MEANS THEREFOR
Howard H. Laucks, Boonton, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application October 19, 1949, Serial No. 122,159
1 Claim. (Cl. 286—1)



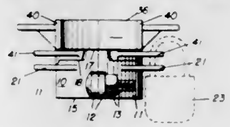
In combination, a pressure chamber having a pressurized fluid therein and a wall closing one end thereof, a member movable in said pressure chamber, said end wall including a through bore having a relatively short reduced diameter portion adjacent the outer end thereof, a relatively long tube disposed in said bore, said tube firmly secured at the outer end only in the reduced diameter portion of the bore and communicating at its inner end with said pressure chamber, said tube being circumferentially spaced from the walls of the through bore throughout its unsecured length, a wire connected at one end to said movable member and extending through said tube, said tube and wire having a minimum amount of clearance therebetween to define a relatively long path of negligible cross-sectional area along the length of said tube between said pressure chamber and the exterior thereof and wherein the pressurized fluid is trapped to thereby seal said pressure chamber.

2,666,659
PACKING DEVICE
Pierre Audemar, Villesnes, France, assignor, by mesne assignments, to Olaer Marine, Paris, France, a company of France
Application April 4, 1950, Serial No. 153,893
Claims priority, application France April 7, 1949
7 Claims. (Cl. 286—26)



1. A packing device of the class described, for effecting sealing engagement between first and second members reciprocably movable with respect to each other and having mutually loosely engaging cylindrical surfaces between which said sealing is required, said first one of said members having a circumferential groove formed therein adjacent to said cylindrical surface of said second member, said packing device comprising: a sealing ring of resilient material disposed in said groove and engaging said second member; and a sleeve member fixed with respect to said first member, said sleeve member comprising a conically surfaced portion tapering to a thin lip, said lip being turned for close engagement with said second member, said turned portion of said lip further abutting against said sealing ring for retaining said ring in said groove.

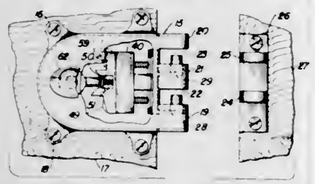
2,666,660
GATE LATCH
Bernard Youngworth, Baltimore, Md.
Application October 17, 1950, Serial No. 190,463
2 Claims. (Cl. 292—68)



1. A gate latch adapted to be carried by a fence post, comprising a lower clamp comprising two halves securely held together and to the fence post, an upper clamp comprising two halves securely held together and loosely carried by the fence post above said lower clamp, said clamps having cooperative stepped interlocking portions whereby the upper clamp is normally immobilized by the lower clamp, a yoke carried by the upper clamp and encompassing a portion of the gate, whereby the gate is held closed when the upper clamp is immobilized, lifting projections carried by the upper clamp adapted to be grasped as handles to lift the upper clamp away from the lower clamp to disconnect the interlocking por-

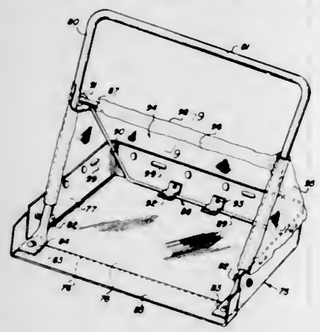
tions to permit rotation of the yoke and upper clamp when the gate is pushed open, projections carried by the lower clamp, co-extensive with and parallel to the projections on the upper clamp, and locking means carried by one extension on each of said clamps for securing the gate in closed position.

2,666,661
LOCK
Samuel Segal, New York, N. Y.
Application May 17, 1950, Serial No. 162,454
10 Claims. (Cl. 292—159)



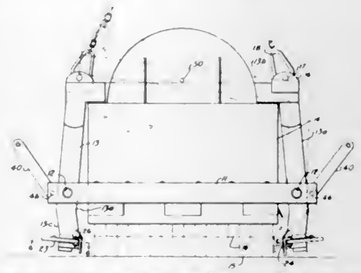
2. In a lock of the type having a casing with a plurality of spaced end loops and a coacting keeper with ears adapted for interlocking engagement with said loops, bolt means transversely movable within the casing and into operative interlocking relation with said keeper, said bolt means being also movable longitudinally relative to the casing between two limiting positions, one being a maximum projected position and the other a maximum retracted position, and spring means urging the bolt means towards said projected position.

2,666,662
MATERIAL HANDLING SCOOP
David F. McLeod, Worthington, Minn.
Application May 16, 1949, Serial No. 93,574
1 Claim. (Cl. 294—55)



In a material handling scoop, a metal body having a flat rectangular bottom, interconnected flanges upturned from the side and back edges of the bottom, an inverted U-shaped handle having the lower ends of its leg portions disposed at the inner sides of the forward ends of the said side flanges, pivots connecting said leg portions to the side flanges, a transversely disposed bar connecting said leg portions intermediate their ends, a brace member of substantially U-form having the free ends of its leg portions hingedly connecting said bar adjacent the ends thereof and its medial transverse portion adapted to bear against the lower portion of the said back flange when the handle is swung into an upwardly and rearwardly inclined position, spring clips spacedly mounted on the inner side of the said back flange to engage over the said medial portion of the brace member to maintain the handle in said inclined position, foot portions out-turned from the free ends of the first leg portions, a blade extending between and secured to the lower sides of the foot portions, other flanges up-turned from the opposite ends of the blade and adapted to move into overlapping relation with respect to the outer sides of the adjacent ends of the said side flanges when the handle is swung rearward and downward to swing the blade into position to close the forward end of the body, and side and back walls of a flexible material connecting the top edges of said side and back flanges with said bar and the first leg portions between the bar and the pivots.

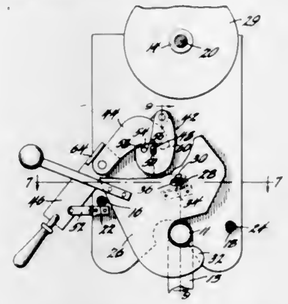
2,666,663
APPARATUS FOR LIFTING BRICKS
Paul F. McDonough, Dorchester, Mass.
Application April 5, 1951, Serial No. 219,341
3 Claims. (Cl. 294—63)



1. In a lifting appliance for brick and the like and in combination a frame, a box supported by and substantially above said frame, said box having an open bottom and being arranged to enclose and to hold in position the tiers of a pile of brick, a pair of elbow shaped tong members outside said box having vertical portions pivoted near their bottom ends to opposite ends of said frame and compression-friction shoes at the bottom of ends of said vertical portions for engaging said brick said vertical portion extending to elbows at opposite ends of the top of said box, and horizontal portions extending the length of said box along its top, the said horizontal portions thereby overlapping each other, vertical guide plates mounted on top of the box between which said horizontal portions of the tongs are slidable thereby confining the movement of said horizontal tong portions in vertical planes, a removable pin through said guide plates operating to hold said horizontal tong portions in downward position to keep the tongs open when the appliance is moved clear of a pile of bricks, and a sling secured to the outer ends of the horizontal portions of the tong members operating, when lifted after said pin is removed, to engage the tongs against and thereby to lift a pile of brick.

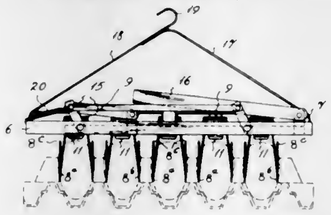
2,666,664
HOOKING DEVICE
Nils Johnson, Silver Spring, Md.
Application June 15, 1951, Serial No. 231,756
4 Claims. (Cl. 294—83)

1. A hooking device comprising a frame member, a pivot pin supported on said frame member, a first hook element pivotally supported on said pin for rocking movement toward and away from load bearing position, said pin extending through an elongated slot in said first hook element to permit shifting of said first hook element bodily with respect to said pivot pin upon said first hook element being rocked as aforesaid, means for locking said first hook element in load bearing position comprising a second hook element pivotally supported on said first hook element, a locking pin fixed to said frame member, said second hook being positioned on said first hook



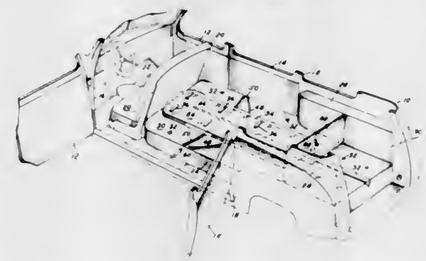
element so that the mouth of the said second hook is placed adjacent said locking pin when said first hook is rocked to its load bearing position, and means for rocking said second hook element about its pivot into locking engagement with said locking pin.

2,666,665
DEVICE FOR HANDLING EGGS
Roy S. Whitcher, Mount Clear, via Ballarat, and George O. Wyatt, Ivanhoe, Victoria, Australia
Application September 8, 1949, Serial No. 114,622
4 Claims. (Cl. 294—87)



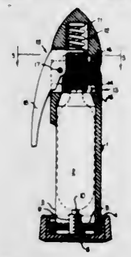
1. In a device for handling eggs, a pair of cooperating horizontal rectangular frames, each having a plurality of equally spaced transverse bars, said frames being disposed in telescoping relationship with respect to one another, a plurality of equally spaced egg-gripping members carried on the transverse bars of a first one of said frames, a corresponding number of egg-ejecting members carried on the transverse bars of the second of said frames, one of said egg-ejecting members being associated with each egg-gripping member and being disposed above an egg held by the egg-gripping member, parallel linkage operatively connecting the two frames for effecting movement of said frames vertically relative to one another while maintaining the frames approximately parallel, and means for moving said second frame downwardly relatively to the first to eject eggs held by the egg-gripping members, said last-named means comprising a lever arm pivotally connected to the said second frame and positioned for movement by the hand of the person supporting the device, a pair of links pivotally connected to said first frame, one of said pair of links being connected to said lever, a connecting bar connecting said links and an arm connecting the other of said pair of links to said second frame.

2,666,666
HEARSE HAVING REVERSIBLE CASKET TABLE
Anthony M. Schneider, Detroit, and Jules A. Olivier, Grosse Pointe, Mich.
Application November 15, 1949, Serial No. 127,302
6 Claims. (Cl. 296—16)



1. In a conventional side service hearse having a platform in the casket compartment supporting a casket table, the combination of a vehicle seat positioned forwardly of the casket compartment, said seat being shiftable forwardly to temporarily increase the effective length of said casket compartment, a main track on said platform extending in a direction longitudinally of the casket compartment, said track having branch portions extending transversely of said casket compartment toward the door openings at each side of said hearse, a front and rear track follower on said table engaged in said track, said table being movable forwardly in said track, when said seat is shifted forwardly, to a position where the front end of the table occupies the space normally occupied by said seat and said rear track follower is aligned with said branch track portions, said table when in said forward position being pivotable about the front track follower and within the confines of said casket compartment to move the rear track follower along either of said branch track portions and thereby project the rear end of said table outwardly through the door opening at either side of the hearse.

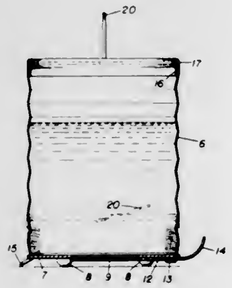
2,666,667
FLUID DISPENSER
Lawrence T. Ward, Philadelphia, Pa., assignor, by mesne assignments, to Charles C. Trelease, Newark, N. J., as trustee
Application April 5, 1947, Serial No. 739,637
4 Claims. (Cl. 299—95)



3. A dispenser for use with pressure capsules of the type indicated comprising, in combination, a body member having a central space for accommodating a capsule and capsule holding means including means for applying pressure in a predetermined direction against the bottom of a capsule, an opening through the body member adjacent said space and extending transversely of the said direction, a valve body member seat-

ed in the said opening and held therein and having means for abutting the discharge end of a capsule and supporting the same against pressure applied by the said capsule holding means together with means for receiving fluid from a pressure capsule held in the said space, an orifice for discharging the same and valve means for controlling said discharge, and the first said body member surrounding the said opening engaging the valve body member for supporting the same against pressure applied thereto by the said holding means through the capsule.

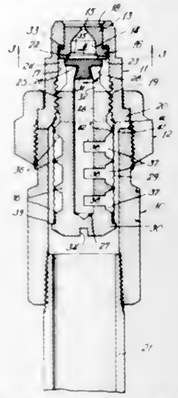
2,666,668
SPRINKLING CAN
Elynor Maria Sieloff, Detroit, Mich.
Application November 7, 1951, Serial No. 255,197
1 Claim. (Cl. 299—102)



A sprinkling can comprising, a collapsible container including a flat, rigid, circular bottom having discharge perforations therein, a substantially U-shaped guide mounted beneath said bottom adjacent the periphery thereof, and a discharge control valve comprising a flat disk slidable beneath the bottom and having perforations therein for registry with the first-named perforations, said valve further comprising an operating handle integral with the disk and slidable through the guide for mounting the valve on the bottom, said handle terminating in an upwarly curved, resilient free end portion engaged under tension in the guide for frictionally securing the valve in set position.

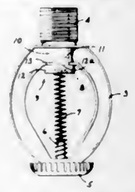
2,666,669
SINGLE INLET WHIRL CHAMBER NOZZLE
Fred W. Wahlin, Oak Park, Ill., assignor to Spraying Systems Co., Bellwood, Ill., a corporation of Illinois
Application September 1, 1950, Serial No. 182,700
6 Claims. (Cl. 299—114)

5. A spray nozzle of the class described having therein a cylindrical whirl chamber which has a central discharge orifice at one end and an eccentric annular enlargement at the other end, a wall surrounding said eccentric enlargement and having a groove extending therethrough which leads tangentially into the eccentric enlargement approximately at the place of greatest eccentricity thereof, and a plate clamped against said wall and closing the open side of said groove and the enlargement at the side thereof remote from the whirl chamber, said whirl chamber having the discharge orifice end thereof conically tapered to the discharge orifice and said whirl chamber having the other end thereof conically flared to the eccentric annular enlargement, the conical taper at the discharge orifice end of the



whirl chamber being concentric with the axis of the orifice and the conical flare at the eccentric annular enlargement end of the whirl chamber being concentric with the axis of the eccentric annular enlargement.

2,666,670
SPRINKLER HEAD
Vincent G. McGraw, Front Royal, Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application August 15, 1950, Serial No. 179,465
2 Claims. (Cl. 299—121)

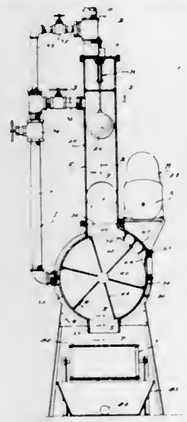


1. A sprinkler head for a dry pipe sprinkler system comprising a yoke with a pipe fitting attached to one end thereof, a fluid discharge opening extending through the pipe fitting and yoke, a disc-like protective closure member having a raised centering portion on one face thereof and extending into the discharge opening, said protective closure member being supported in position over the discharge opening by a helical compression spring one end of which extends into, but is unattached to, a recess in the face of the closure member opposite to that on which the raised centering portion is positioned, the other end of the spring bearing against the end of the yoke opposite the discharge opening, and a fluid distributor head rigidly fastened to said end of the yoke opposite the discharge opening.

2. A sprinkler head as defined in claim 1 wherein the disc-like protective closure member is made from polytetrafluoroethylene.

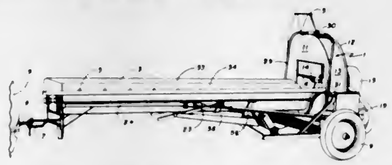
2,666,671
MATERIAL HANDLING APPARATUS
Howard J. Kimmerle, Los Angeles, Calif.
Application September 3, 1949, Serial No. 113,978
9 Claims. (Cl. 302—14)

1. Apparatus adapted to continuously handle a stream of liquid bearing objects including, a flow line with an open inlet end adapted to be submerged in liquid carrying objects, a vertically disposed normally closed tank with an inlet opening in the lower portion thereof to which the discharge end of the flow line is connected the tank having a bottom outlet opening adapted to continuously pass a stream of liquid bearing objects, flow controlling means adjoining the bottom of the tank and in open communication



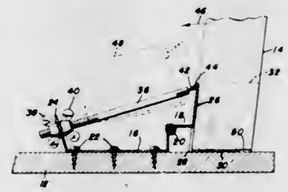
with the tank through the bottom thereof and including a power driven member adapted to rotate continuously and to pass liquid and objects downwardly from the tank while maintaining a seal against air entering the tank at the bottom thereof, means adapted to continuously exhaust air from the upper end portion of the tank, and means adapted to control the level of liquid in the tank including a member in the tank responsive to the level of liquid therein.

2,666,672
FORAGE BLOWER
George B. Hill, Celina, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application August 16, 1952, Serial No. 304,821
9 Claims. (Cl. 302—37)



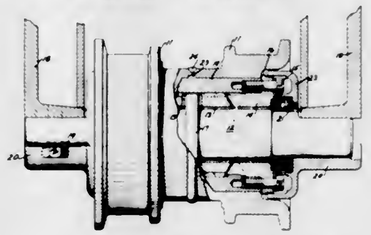
1. An improved forage blower comprising a forage blowing unit, a rigid framework secured to said blowing unit and extending forwardly thereof, a feed trough pivotally secured to said blowing unit above said framework for raising and lowering movement between a lowered position of use and an elevated position, a transverse shaft beneath said feed trough, bearing means on said framework for rotatably supporting said shaft, a pair of elongated parallel levers centrally and symmetrically secured to said shaft, a link pivotally attached to each lever and also pivotally attached to said feed trough, a plurality of outstanding arms secured to said shaft, tension springs secured between said arms and fixed points on said framework for storing energy while said feed trough is lowered and said shaft rotated in accordance with the corresponding movement of said levers, said links having extended ends for physical engagement with said levers, said levers and links being fully extended in substantial alignment when said feed trough is raised with the ends of said links physically engaging said levers in overcenter locked relationship.

2,666,673
TRESTLE
Claude Q. Hughes, St. Louis, Mo.
Application September 26, 1950, Serial No. 186,845
1 Claim. (Cl. 304—5)



A trestle comprising a beam, a hinge including an elongated stationary plate mounted longitudinally beneath the beam and terminating in an angularly extending inner end portion having an opening therein, said hinge further including a swingable member hingedly mounted on the outer end of the plate and comprising an angle member including a pair of integral flanges, one of said flanges having a notch in its free longitudinal edge, an abutment on the other flange, a pair of spaced legs mounted on the end portions of the angle member, a rod including a threaded end portion extending through the opening, the other end portion of said rod being engageable in the notch, a head on said other end portion of said rod engageable selectively with the abutment or with said one flange when said rod is engaged in the notch, and nuts on the threaded end portion of the rod on opposite sides of the angularly extending inner end portion of the plate for adjustably securing said rod therein for urging the legs toward and securing said legs in open position or for anchoring said legs in closed position.

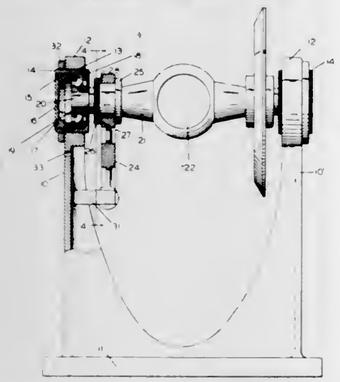
2,666,674
TRACK ROLLER
John L. Deffenbaugh, Peoria, Ill., assignor to Caterpillar Tractor Co., Peoria, Ill., a corporation of California
Application April 3, 1951, Serial No. 218,965
2 Claims. (Cl. 305—1)



1. A track roller comprising a cylindrical hub with a circumscribing rib projecting from its periphery intermediate its ends, a pair of flanged rims adapted to be fitted on the hub from opposite ends to meet at the center of the hub, said rims being counterbored to receive said rib, and means securing the rims together at their

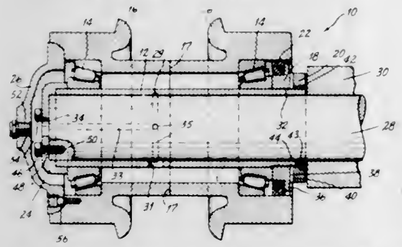
meeting portions and intermediate their load bearing areas whereby the rib will prevent endwise displacement of the rims on the hub.

2,666,675
ADJUSTABLE BEARING
Charles O. Rothweiler, Milwaukee, Wis., assignor to David White Company, Milwaukee, Wis.
Application April 21, 1950, Serial No. 157,339
5 Claims. (Cl. 308—178)



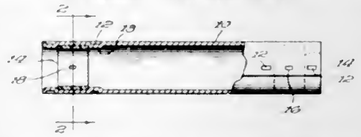
1. An axially adjustable bearing assembly comprising, a frame having a threaded aperture therein, a generally tubular housing threadably mounted in said aperture and having centrally bored wall at one end thereof to receive the end of a shaft, a bearing assembly mounted within said housing against the inside of said wall, a cover plate threadably mounted in the open end of said housing and operative to fix said bearing assembly with respect to the housing, and a lock ring threadably mounted on the exterior of said housing and abutting said frame to fix the housing with respect to the frame.

2,666,676
IDLER WHEEL UNIT
Franklin E. Rhine, Alton, Ill., assignor to Sterling Steel Casting Co., Monsanto, Ill., a corporation of Illinois
Application March 6, 1952, Serial No. 275,072
5 Claims. (Cl. 308—187)



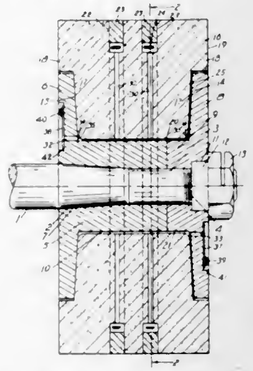
1. An idler wheel unit comprising a sleeve adapted for mounting on a support, spaced roller bearing assemblies mounted on said sleeve, a member secured to one end of said sleeve, one roller bearing assembly being disposed against said member as a stop, an idler wheel rotatably mounted on each rol er bearing assembly and in abutting relation, said idler wheels being spaced radially from said sleeve and defining a lubrication space therewith, a locking member threadedly engaging said sleeve and disposed in abutting relation to said other roller bearing assembly maintaining said roller bearing assemblies and said idler wheels on said sleeve, means maintaining said locking member against removal, said locking member closing one end of said lubrication space, and means closing the other end thereof, said last-mentioned means comprising a cap member secured to one of said idler wheels and spanning the end of said lubricating space and said idler wheel stop member.

2,666,677
BEARINGS
Lester C. Miller, Milwaukee, Wis., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 12, 1949, Serial No. 120,950
1 Claim. (Cl. 308—238)



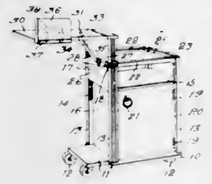
A bearing comprising a tubular shell of sheet metal having apertures formed in the side wall thereof, there being one such aperture adjacent to but spaced from each end of the shell, the inner surface of said shell having longitudinally spaced, locating protuberances, said protuberances being arranged in pairs at opposite ends of the shell with the protuberances of the respective pairs disposed on opposite sides of the respective apertures, bushings of synthetic plastic sheet material within said shell, there being one such bushing between each pair of said locating protuberances with the opposite end portions of the bushings engaging the respective locating protuberances and with the outer surface of each bushing engaging the inner surface of said shell, and an interlock between said shell and bushings comprising an integral protuberance on each bushing extending into the aperture in said shell.

2,666,678
PISTON
Fred J. Carney, Erie, Pa., assignor to Bury Compressor Company, Erie, Pa., a corporation of Pennsylvania
Application June 22, 1950, Serial No. 169,567
5 Claims. (Cl. 309—4)



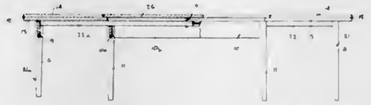
1. A piston for disposal on a piston rod comprising a cylindrical member having an outwardly directed end flange with a laterally extending aperture therein of predetermined size, a flapper valve disposed over said aperture, an annular bored carbon ring having an annular groove on the periphery thereof and a radially extending aperture of predetermined size connecting said groove and the bore thereof disposed on said cylindrical member, the bore of said carbon ring being spaced a predetermined distance from the outer periphery of said cylindrical member, an end plate having a laterally extending aperture of predetermined size engaging one side of said ring and being complementary to said cylindrical member, a flapper valve covering the outer side of said aperture, said apertures in said end flange of said cylindrical member and said end plate being in fluid flow relationship with the space between the inner periphery of the bore of said carbon ring and the outer periphery of said cylindrical member, means for securing said cylindrical member and said end plate on a piston rod with said carbon ring secured between the end plate and the flange, and a sealing ring for disposal in said peripheral groove, said radially extending aperture being in fluid flow relationship with the apertures in said end flange of said cylindrical member and said end plate, respectively.

2,666,679
TABLE WITH ADJUSTABLE CANTILEVER SHELF
Nils Tage Olofsson, Lamhult, Sweden
Application November 28, 1949, Serial No. 129,721
Claims priority, application Sweden August 22, 1949
6 Claims. (Cl. 311—40)



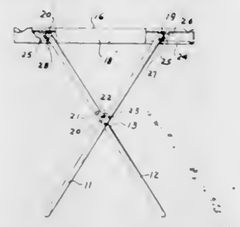
1. A night table comprising a stand, parallel vertically positioned guideways on said stand, means positioned between said guideways forming a series of vertically spaced stops, a slidable plate mounted in said guideways and having at least one hole therein registrable with said vertically spaced stops, a table shelf pivotally mounted on said slidable plate, and a brace mounted beneath said table shelf for supporting the same, said brace having one end selectively insertable through the hole in the slidable plate in close fitting relationship and in selective engagement with one of said vertically spaced stops.

2,666,680
EXTENDABLE TABLE WITH FOLDABLE LEAVES
Harry Alperstein, Belle Harbor, N. Y.
Application March 16, 1953, Serial No. 342,364
2 Claims. (Cl. 311—54)



1. An extension table comprising a longitudinally extending frame adapted to rest upon a floor, a pair of inner extension leaves, means mounting said inner extension leaves on top of said frame so that they are longitudinally aligned and longitudinally movable, a pair of outer extension leaves respectively hingedly connected to said inner extension leaves at the respective outer edges thereof, said outer extension leaves being respectively movable between positions in which they overlie and rest upon said respective inner leaves and positions in which they are in longitudinal alignment with said inner leaves, said outer extension leaves being of shorter length than said inner extension leaves, a center leaf, means mounting said center leaf on top of said frame and permitting vertical movement of said center leaf, said leaves being co-operatively movable to determine a retracted condition of said table in which said center leaf rests upon said outer extension leaves and in which said outer extension leaves rest upon said inner extension leaves, a partially extended condition of said table in which said center leaf is positioned longitudinally between said outer extension leaves and in which said center leaf and said outer extension leaves rest upon said inner extension leaves, and a fully extended condition of said table in which said center leaf is positioned longitudinally between said inner extension leaves and rests directly upon said frame.

2,666,681
CONVERTIBLE FOLDING TRAY TABLE AND COFFEE TABLE
John B. Adler, Grosse Ile, Mich., assignor to Shwayder Brothers, Denver, Colo., a corporation of Colorado
Application March 1, 1951, Serial No. 213,363
2 Claims. (Cl. 311—79)



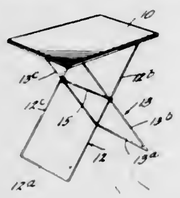
1. A foldable tray table comprising a pair of hollow rectangularly shaped supports, with their respective sides pivotally connected intermediate their ends to form an X shape, the upper horizontal ends of said supports being spaced from each other, and a tray positioned and secured upon said spaced ends and adapted for complete removal therefrom, said supports being adapted for tipping 90 degrees whereby one of the pivotally connected sides of said supports rests upon a supporting surface, said tray being retainingly positioned upon and over the other side portions of said pivotally connected supports, said tray having a depending peripheral flange, and said tray and said flange being of such size that the interior corners of said flanges snugly and retainingly engage over the opposite end portions of the adjacent sides of said supports, an arcuately slotted stop bracket secured upon one of said sides of one of said supports adjacent its pivotal connection, and a headed pin extending through the slot of said bracket and secured to an adjacent side of the other support, limiting the pivotal opening movements of said supports facilitating assembly of said tray with respect to said spaced ends and assembly of said flange around said end portions.

2,666,682

FOLDING TABLE WITH CROSS LEGS

Morris D. McCormick, Muncie, Ind., assignor to McCormick Brothers Company, Albany, Ind., a corporation of Indiana

Application July 10, 1950, Serial No. 172,807
2 Claims. (Cl. 311—83)



1. A folding table comprising a rectangular top of light gauge sheet metal and a collapsible support therefor, said support including a rectangular frame and rectangular legs attached thereto for bodily movement about an axis fixed with respect to said frame and relative angular movement about an axis movable toward and away from said frame, the table top being mounted on and firmly attached to the frame of the support, marginal portions thereof, at opposite ends, curving downwardly and inwardly to closely engage and encircle, respectively, parallel end members of the frame, the longitudinally extending parallel side members of the frame being disposed inwardly of the side edges of the table top and to closely engage the undersurface of the top to support the same, means pivotally attaching one end of one leg of the table to both of said longitudinally extending members of the frame for swinging movement about an axis fixed with respect to the frame, and means connecting one end of the second leg of the support to both of said longitudinally extending frame members for sliding movement longitudinally of the frame and pivotal movement about said movable axis.

2,666,683

FOLDING TABLE WITH AUTOMATIC LEG LOCKING MECHANISM

Joseph Pucci, Philadelphia, Pa., assignor to P. B. R. Manufacturing Co., Philadelphia, Pa., a partnership

Application May 28, 1953, Serial No. 358,078
8 Claims. (Cl. 311—87)

1. In a table having a top of sheet metal or the like provided with an integral depending side flange; a generally L-shaped plate having a horizontal base portion affixed to the underside of the top and having a vertical portion affixed to the inner side of the flange; a locking element mounted on said vertical portion and directed inwardly therefrom, said locking element being spaced appreciably away from the base portion and having a camming edge inclined inwardly away from the free edge of the flange; a leg member; a mounting link having one end pivotally connected to the upper end of the leg and the other end pivotally connected to the inner side of the flange at a point longitudinally intermediate the L-shaped plate and the outer end of the top, said mounting link being normally disposed in a plane intersecting the inclined camming edge of the locking element; a bracing link having one end pivotally connected to the leg member at a point appreciably spaced from the upper end thereof and having its other end pivotally connected to the inner side of the flange at



a point longitudinally inward of the L-shaped plate; said leg member being positionable in generally horizontal closed or collapsed position wherein it lies generally adjacent the underside of the top with its aforesaid end located longitudinally outward of the pivotal connection of the mounting link to the flange, said leg member being manually movable to generally vertical open position with the mounting link swinging through an arc of about 180 degrees so as to seat the aforesaid upper end of leg member against the base portion of the L-shaped plate, the edge of the mounting link contacting the inclined camming edge and causing momentary relative lateral displacement of the locking element and the mounting link so as to permit the mounting link to ride over the locking element and to be seated intermediate it and the base portion so as to secure the leg member in open position; and means associated with the locking element for permitting return leg-closing movement of the mounting link.

CHEMICAL

2,666,684

SPIN BATH TREATMENT

Russell O. Denyes, Maplewood, N. J., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application June 17, 1950, Serial No. 168,866

8 Claims. (Cl. 18—54)

1. In a process for the production of regenerated cellulose wherein viscose spinning solution is extruded into a spin bath comprising an aqueous solution of sulfuric acid, sodium sulfate and zinc sulfate for coagulating said spinning solution, in which process the spin bath is circulated through and outside the coagulating zone thereby coming into contact with metallic lead equipment, causing said spin bath to become contaminated with lead, the improvement which comprises adding an alkaline earth metal compound, which reacts with said spin bath to produce an alkaline earth metal sulfate, to said circulating spin bath, at a point removed from the coagulating zone and under such conditions as to produce an alkaline earth metal sulfate in finely divided form which precipitates and causes the co-precipitation of the lead sulfate in said spin bath, and removing the precipitate whereby the amount of lead contaminant is diminished and the tendency of the regenerated cellulose to discolor is reduced.

2,666,685

MOLD RELEASE EMULSION

Maurice C. Hommel and Chester C. Currie, Midland, Mich., assignors to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application July 25, 1951, Serial No. 238,574
2 Claims. (Cl. 106—38.22)

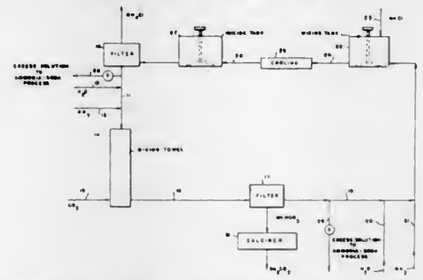
1. A mold release emulsion consisting essentially of (1) from 1 to 75 per cent by weight of organosiloxane fluids, said organosiloxanes having from 1.9 to 3 hydrocarbon radicals selected from the group consisting of methyl, ethyl and phenyl radicals, per silicon atom, (2) from 2 to 20 per cent by weight finely divided silica, (3) from 1 to 6 per cent by weight emulsifying agents selected from the group consisting of morpholine salts of fatty acids having from 12 to 18 carbon atoms in the acid chain, acetates of n-primary amines having from 12 to 18 carbon atoms in the amine chain, monoesters of polyethylene glycols and fatty acids having 12 to 18 carbon atoms in the acid chain, alkylated aryl polyether alcohols and alkali metal salts of alkylated aryl polyether sulfates and (4) from 20 to 90 per cent by weight water.

2,666,686

PRODUCTION OF SODIUM BICARBONATE AND AMMONIUM CHLORIDE IN MODIFIED AMMONIA-SODA TYPE PROCESS

Warren Standish Miller, Houston, Tex., and Louis C. Hirdler, Maplewood, La., assignors to Mathieson Chemical Corporation, a corporation of Virginia

Application September 13, 1952, Serial No. 309,436
6 Claims. (Cl. 23—65)



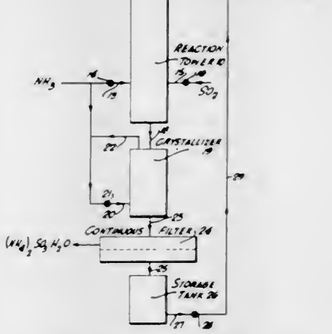
1. A combination process for the production of sodium bicarbonate and ammonium chloride from sodium chloride, carbon dioxide, ammonia and water, which comprises circulating an aqueous liquor containing sodium, ammonium, chloride, hydroxide and bicarbonate ions between a sodium bicarbonate producing stage and an ammonium chloride producing stage, adding carbon dioxide to the ammoniated salt-containing liquor in the sodium bicarbonate producing stage in an amount producing a ratio of bicarbonate to the sum of bicarbonate and hydroxide ions of about 0.60 to 0.80, controlling the temperature of the liquor at about 28° to 60° C. while separating crystallized sodium bicarbonate, adding less than the total amount of make-up water required, the total amount of water required being more than the molar requirement for a complete cycle to the liquor which is recovered and circulated to the ammonium chloride producing stage, adding approximately half but less than the molar requirement of ammonia to the circulating liquor to produce a ratio of bicarbonate to the sum of bicarbonate and hydroxide ions of about 0.37 to 0.42, adding sodium chloride as the solid salt, controlling the temperature of the liquor at about 20° to 40° C. while dissolving the salt and separating crystallized ammonium chloride, adding the remaining make-up water and ammonia to the liquor recovered, circulating the liquor to the sodium bicarbonate producing stage, removing liquor from the circulating system in excess of about the amount originally circulated between the sodium bicarbonate producing stage and the ammonium chloride producing stage, separately ammoniating in an ammonia-soda process a separate aqueous solution of sodium chloride, carbonating the ammoniated solution of sodium chloride by adding carbon dioxide, separating sodium bicarbonate from the carbonated solution and recovering ammonia from the liquor from the sodium bicarbonate separation step by adding lime and introducing the liquor removed from the circulating system in excess of about the amount originally circulated between the sodium bicarbonate producing stage and the ammonium chloride producing stage into at least one of the steps of ammoniation, carbonation and ammonia recovery in the separate ammonia-soda process.

2,666,687

PROCESS FOR THE MANUFACTURE OF CRYSTALLINE AMMONIUM SULFITE MONOHYDRATE

Davis A. Skinner, Compton, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application November 1, 1948, Serial No. 57,801
4 Claims. (Cl. 23—129)



1. In a process for the manufacture of crystalline ammonium sulfite monohydrate, the steps which comprise (1) passing sulfur dioxide into an aqueous alkaline solution containing dissolved ammonium sulfite and ammonia in the substantial absence of gaseous ammonia and in an amount less than that required to react with all of said dissolved ammonia to form ammonium sulfite; (2) subsequently passing ammonia into the resulting solution in the substantial absence of gaseous sulfur dioxide and in an amount in excess of that required to precipitate ammonium sulfite monohydrate, whereby there is obtained precipitated crystalline ammonium sulfite monohydrate and an alkaline mother liquor containing dissolved ammonium sulfite and ammonia; (3) separating said crystalline ammonium sulfite monohydrate from said alkaline mother liquor; (4) diluting said alkaline mother liquor with water; and (5) returning the diluted alkaline mother liquor to step (1).

2,666,688

METHOD OF MAKING STABLE CUPRIC HYDROXIDE

William H. Furness, Haddonfield, N. J., assignor to Copper Research, a corporation of New Jersey

No Drawing. Application May 5, 1951, Serial No. 224,840

3 Claims. (Cl. 23—147)

1. The method of making cupric hydroxide and sodium sulphate from copper sulphate and sodium hydroxide which consists of mixing 250 parts of copper sulphate ($CuSO_45H_2O$) with 380 parts of trisodium phosphate ($Na_3PO_412H_2O$) in aqueous solution and subsequently adding thereto an aqueous solution containing 80 parts of sodium hydroxide (NaOH), to form approximately 98 parts cupric hydroxide $Cu(OH)_2$, 142 parts of sodium sulphate (Na_2SO_4), and 194 parts of trisodium phosphate (Na_3PO_4), removing the cupric hydroxide by filtration and repeating the process by adding 250 gms. copper sulphate

($CuSO_410H_2O$)

to the filtrate, followed by 80 gms. caustic soda (NaOH) to produce a second 98 gms. cupric hydroxide.

2,666,689

PROCESS FOR THE PRODUCTION OF HYDROCYANIC ACID

Rudolph L. Heider, Texas City, Tex., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 21, 1950, Serial No. 180,711

3 Claims. (Cl. 23—151)

1. In the production of hydrocyanic acid by passing a gaseous mixture comprising oxygen, ammonia and hydrocarbons over a catalyst at elevated temperatures, the improvement which comprises passing said gaseous mixture over a catalyst consisting of crystals of electrolytically produced rhodium, said catalyst being further characterized by the absence of a carrier.

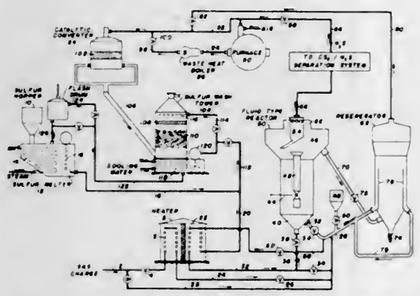
2,666,690

PROCESS FOR THE PRODUCTION OF CARBON DISULFIDE

Hillis O. Folkins and Elmer Miller, Crystal Lake, and Harvey Hennig, Cary, Ill., assignors to Food Machinery and Chemical Corporation, New York, N. Y., a corporation of Delaware

Application December 28, 1951, Serial No. 263,724

18 Claims. (Cl. 23—206)



1. The method of converting hydrocarbons to carbon disulfide by reaction with sulfur, said hydrocarbons containing constituents tending to form tarry sulfur-containing by-products, comprising passing preheated hydrocarbons and preheated sulfur vapors into contact with an agglomerating material in a reaction zone, said agglomerating material being capable of occluding said sulfur-containing by-products and said reaction zone being maintained under conditions to promote the formation of carbon disulfide and hydrogen sulfide, separating said agglomerating material and the carbon disulfide and hydrogen sulfide so formed, subjecting said agglomerating material to an oxidizing atmosphere capable of oxidizing the sulfur content of said occluded by-products to sulfur dioxide, and reacting said sulfur dioxide so produced with the hydrogen sulfide under conditions to produce elemental sulfur for reuse in the reaction.

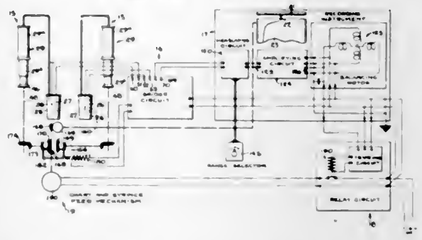
2,666,691

RECORDING TITRATION APPARATUS

Harold A. Robinson and Rollin H. Briggs, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a company of Delaware

Application October 13, 1948, Serial No. 54,304

3 Claims. (Cl. 23—253)



1. In a recording titration device provided with a chemical cell adapted to contain a quantity of test specimen having electrodes positioned therein between which the E. M. F. of the cell is produced, supply means for introducing standard solution into said cell, and recording means provided with a movable chart and recording stylus comprising in combination, a normally balanced electrical network, means for impressing the cells E. M. F. upon said normally balanced network to produce therein a condition of voltage unbalance, a first driving means for moving said recording stylus and for simultaneously rebalancing said electrical network, a second driving means for simultaneously feeding standard solution from said supply means into said chemical cell and for advancing said movable chart, and a control circuit rendered operative in response to the voltage unbalance of said network for disabling the operation of said second driving means during operation of said first driving means.

2,666,692

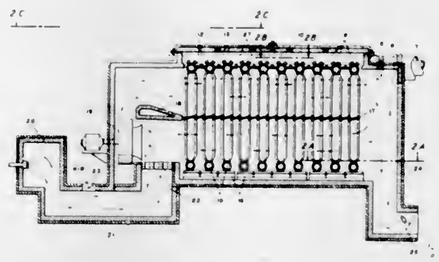
CATALYTIC REACTOR TUBE ASSEMBLY

Edward Dolezal, Harrison L. Hays, Gerald W. McCullough and Karl H. Hachmuth, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application July 21, 1947, Serial No. 762,314

8 Claims. (Cl. 23—288)

1. A catalyst case assembly comprising a series of parallel vertically disposed harps each comprising an upper horizontal header having a closed end and a spherical-jointed end, a lower horizontal header parallel to said upper header having a closed end and a spherical-jointed end in reverse order, and a series of spaced-apart catalyst tubes arranged in two parallel rows on opposite sides of a plane passing thru the axes of said headers, said tubes being curved at each end so as to offset same from said plane and the spherical-jointed ends of said headers extending beyond the outermost tubes on the respective ends a substantial distance so as to provide space for a wall of said hereinafter-named case between the header ends and said outermost tubes; a heat insulating case surrounding said series of harps so as to permit the open ends of said upper headers to extend thru one said of said case and the open ends of said lower headers thru the other side thereof and so as to provide open space between the ends of said case and the outermost harp in each instance, said case having detach-



able top and side sections permitting removal of any one of said harps with only partial dismantling of the case; a pair of parallel supporting rails for said harps in slidable arrangement with the lower sides of said lower headers at right angles thereto; a furnace communicating with one end of said housing for supplying hot combustion gas thereto; an exhaust conduit at the opposite end of said case; and a pair of manifolds outside of said case, one connecting with the spherical joints of said upper header and the other with the spherical joints of said lower header thereby providing for flow of gases from one manifold thru said harps to the other manifold.

2,666,693

ACID TREATMENT OF PLASTIC ARTICLES

Zoltan Meretey, Stamford, Conn., assignor to PM Industries Incorporated, Stamford, Conn.

No Drawing. Application January 24, 1952, Serial No. 268,119

8 Claims. (Cl. 41—42)

1. A method of etching the surface of a rigid synthetic resin article containing a filler, to expose the filler, which comprises the steps of treating said article with an acid selected from the group consisting of nitric acid, sulphuric acid and hydrochloric acid, removing the acid and drying the article.

2,666,694

PROCESS FOR TREATING PLASTIC ARTICLES

Robert B. Battersby, Auburn, N. Y., assignor to PM Industries, Incorporated, Stamford, Conn.

No Drawing. Application January 24, 1952, Serial No. 268,130

3 Claims. (Cl. 41—42)

2. A method of producing a felt-like surface on an article cast in phenolic resin base material containing a cotton flock filler which comprises etching with a strong alkali, removing the alkali, treating with an acid, removing the acid and drying.

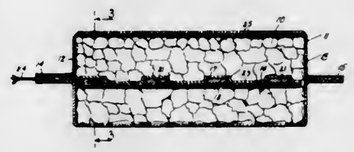
2,666,695

FUEL PACKAGES

David Brody, Clinton, Mass., assignor to Van Brode Milling Co., Inc., Clinton, Mass., a corporation of Massachusetts

Application October 2, 1952, Serial No. 312,823

1 Claim. (Cl. 44—40)



A self-kindling fuel unit comprising a closed container of combustible material, a charge of charcoal therein, and a kindling charge embedded in said charcoal charge, said kindling charge comprising a folded strip of combustible sheet material extending longitudinally through the entire length of said charcoal charge, a plurality of spaced blocks of trioxane fixed in position between the layers of said folded strip, said blocks forming projections on said strip whereby said kindling charge is anchored in place by some of the elements of said charcoal charge, and a fuse extending longitudinally through said folded strip and held in contact with said blocks by the layers of said strip, the free end of said fuse being exposed exteriorly of said container.

2,666,696

METHOD OF TREATING METAL POWDERS

Mark N. Fredenburgh, Summit, N. J., assignor to Radio Corporation of America, a corporation of Delaware

No Drawing. Application January 31, 1950, Serial No. 141,580

3 Claims. (Cl. 75—.5)

1. In a method of making a relatively strongly coherent tungsten-molybdenum alloy slug from commercial tungsten powder having unpredictable characteristics in respect of particle size distribution and size distribution peak and having relatively small and relatively large particles, and commercial molybdenum powder having a predictable particle size distribution of from slightly above zero to 10 microns in diameter and a size distribution peak of from one-half to five microns in diameter, said method comprising the steps of heating said commercial tungsten powder at a temperature from about 1660° to about 1750° C. for one-half hour to cause said relatively small particles of said tungsten powder to become sintered together in a relatively strongly coherent bond and to cause said relatively large tungsten particles to become sintered in a relatively weakly coherent bond, and subsequently mechanically working said sintered tungsten powder for about three hours to release said larger particles only from said relatively weakly coherent bond, for providing a treated tungsten powder having said predictable particle size distribution and size distribution peak, whereby said treated tungsten powder and said commercial molybdenum powder are adapted to be homogeneously mixed and sintered to provide said strongly coherent slug.

2,666,697

FERROUS ALLOYS

Mathias L. Eder, Canton, Ohio; Louise J. Eder, executrix of said Mathias L. Eder, deceased, assignor to Louise J. Eder, Canton, Ohio

No Drawing. Application January 18, 1951, Serial No. 206,733

6 Claims. (Cl. 75—128)

1. A ferrous alloy particularly adapted for hard facing purposes to resist wear and abrasion at high temperatures, said alloy containing about .8% carbon, about 2.0% chromium, about 2.0% nickel, not more than 4.0% molybdenum, about 3.0% tungsten, about .75% vanadium, and the remainder of said alloy being iron.

2,666,698

ALLOYS OF TITANIUM CONTAINING ALUMINUM AND IRON

Robert H. Dickinson and Lee S. Busch, Indianapolis, Ind., assignors, by mesne assignments, to Mallory-Sharon Titanium Corporation, Indianapolis, Ind., a corporation of Delaware

No Drawing. Application July 24, 1951, Serial No. 238,392

2 Claims. (Cl. 75—177)

1. Titanium alloys consisting of from 0.75% to 6% aluminum, 0.75% to 7% iron, from 0.25% to 1% silicon, the rest being essentially all titanium.

2. A titanium base alloy consisting of 0.75% to 6% aluminum, 0.75% to 7% iron, 0.25% to 0.75% carbon, 0.25% to 1% silicon, the rest being essentially all titanium.

2,666,699

PRECIPITATING SIZE WITH CHROMIUM AND ALUMINUM SALTS

Raymond C. McQuiston, West Newton, and Frank E. Davenport, Newton Center, Mass., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application January 6, 1947, Serial No. 720,480

4 Claims. (Cl. 92—21)

1. A method of preparing an aqueous fibrocolloidal slurry adapted for use in making unified sheet material on a paper-making machine, comprising the steps of: (1) dispersing cellulose paper-making fibers in water to form a fibrous slurry, (2) conditioning the fibers by introducing small proportions of chromic sulphate and aluminum sulphate, (3) alkalizing the slurry to a pH value in the range of 10.0 to about 11.0, (4) admixing a colloidal binder polymer latex, (5) introducing a small additional proportion of chromic sulphate, the amounts of salts thus far introduced being insufficient to deposit the latex particles upon the fibers, (6) introducing aluminum sulphate in sufficient amount to deposit the latex particles upon the fibers and adjusting the pH value to approximately 4.8–5.2.

2,666,700

PROCESS OF PREPARING A LIGHT SENSITIVE SILVER HALIDE EMULSION

Walter Dewey Baldsiefen, Metuchen, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 6, 1950, Serial No. 183,463

4 Claims. (Cl. 95—7)

1. In a process of preparing a light-sensitive, water-permeable colloid-silver halide emulsion including precipitation, ripening, washing and digestion periods the step which comprises adding to the dispersion of precipitated silver halides in the colloid prior to conclusion of the digestion period, from 0.097% to 0.91% by weight based on the silver of a compound taken from the class consisting of tetracarboxymethylethylenediamine and its alkali metal, ammonium, tetramethylammonium, tetraethylammonium, and amine salts.

2,666,701

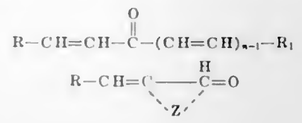
OPTICAL SENSITIZATION OF PHOTOMECHANICAL RESISTS

William West, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

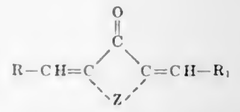
No Drawing. Application October 15, 1952, Serial No. 314,973

20 Claims. (Cl. 95—7)

1. A photomechanical resist composition comprising as the light-sensitive material a ketone selected from the group consisting of those ketones represented by the following general formulas:



and



wherein R and R_1 represents a member selected from the group consisting of an aralkyl group, an aryl group and a furyl group, n represents a positive integer of from 1 to 2 and Z represents the non-metallic atoms necessary to complete a carbocyclic ring, the composition containing as a spectral sensitizer for the composition a dye selected from the group consisting of thiacarbocyanine, dibenzothiacarbocyanine, thiazolocarbocyanine, selenacarbocyanine and azathiacarbocyanine dyes.

2,666,702

SINGLE POWDER PHOTOGRAPHIC DEVELOPERS HAVING IMPROVED STABILITY TO HIGH TEMPERATURES

Donald J. Kridel, Frederic R. Bean, and William J. Rogers, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application June 26, 1952, Serial No. 295,833

5 Claims. (Cl. 95—88)

1. A stable single-powder photographic developer composition containing an organic silver halide developer, 0.5 to 3% by weight of a stabilizing agent comprising boric anhydride having a moisture content not exceeding approximately 35% by weight, 0.05 to 0.3% by weight of a stabilizing agent comprising phthalic anhydride, said mixture of stabilizing agents adapted to prevent decomposition of the developer when exposed to temperatures from 120–130° F. and a soluble stable, and photographically compatible basic ingredient selected from the group consisting of alkali borates, sulfites and carbonates.

2,666,703

SINGLE-POWDER PHOTOGRAPHIC DEVELOPERS STABILIZED WITH METABORIC ACID

Donald J. Kridel and Edwin S. Wiitala, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application June 26, 1952, Serial No. 295,834

7 Claims. (Cl. 95—88)

1. A stable single-powder photographic developer composition containing an organic silver halide developer, a stabilizing agent comprising metaboric acid and a soluble, stable, and photographically compatible basic ingredient selected from the group consisting of alkali borates, sulfites and carbonates.

2,666,704

BAKING COMPOSITIONS

Elmer F. Glabe, Chicago, Ill., assignor to Food Technology, Inc., Chicago, Ill., a corporation of Illinois

No Drawing. Application September 8, 1949, Serial No. 114,685

8 Claims. (Cl. 99—91)

2. A baking composition comprising a baking mix and between 0.01% and 5.0% by weight of the baking mix of an activated dihydroxyphospholipid, said dihydroxyphospholipid having been activated by intimately premixing between 1 part by weight of fat to 12 parts by weight of dihydroxyphospholipid and 8 parts by weight of fat to 1 part by weight of dihydroxyphospholipid and between 1 part by weight of water to 10 parts by weight of dihydroxyphospholipid and 6 parts by weight of water to 7 parts by weight of dihydroxyphospholipid, said dihydroxyphospholipid being a hydroxylated phosphatide which is hydroxylated at the double bonds of the unsaturated fatty acid portion of the phosphatide.

2,666,705

SHORTENING COMPOSITIONS AND METHOD OF MAKING THE SAME

Elmer F. Glabe, Chicago, Ill., assignor to Food Technology, Inc., Chicago, Ill., a corporation of Illinois

No Drawing. Application October 26, 1950, Serial No. 192,375

18 Claims. (Cl. 99—118)

1. An edible shortening composition consisting essentially of a shortening compound and an activated dihydroxyphospholipid which has been rendered active by intimately pre-mixing therewith before addition to the shortening between about 8.5% and 300% by weight of fatty material and between about 10% and 85% by weight of water, said dihydroxyphospholipid being a hydroxylated phosphatide which is hydroxylated at the double bonds of the unsaturated fatty acid portion of the phosphatide.

2,666,706

POLYETHYLENE GLYCOL ESTERS IN FAT

Emery I. Valko, Mountain Lakes, N. J., assignor to E. F. Drew & Co., Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 16, 1949, Serial No. 127,762

8 Claims. (Cl. 99—123)

7. A composition of matter consisting essentially of an edible fat having incorporated therein from 0.05% to 5.0% of a compound taken from the class consisting of polyethylene glycol esters having the following general formula:

$$R(OCH_2CH_2)_xOR'$$

wherein R is a fatty acid radical having at least 12 carbon atoms, R' is a fatty acid radical having 2 to 4 carbon atoms, wherein $(OCH_2CH_2)_x$ has a molecular weight of 1000 to 2000.

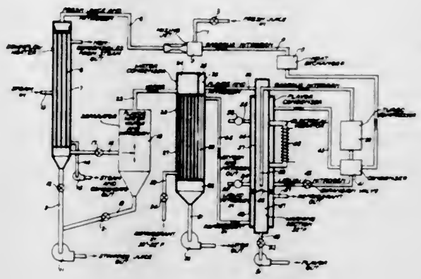
2,666,707

METHOD FOR RECOVERING ESTERS AND OTHER VOLATILE COMPONENTS

Eric R. Beu, Albion, N. Y.

Application June 24, 1950, Serial No. 170,207

8 Claims. (Cl. 99—140)



1. The method of continuously recovering esters and other volatile components of flavors and aromas from a fluid which consists in continuously mixing with the fluid a normally non-condensable gas, continuously separating said gas with the volatile flavor and aroma components from the mixture while the latter is maintained at a sub-atmospheric pressure, continuously removing said fluid from the mixture, continously conducting said gas with the stripped volatiles and condensable vapor in co-current relationship away from said mixture and removing the condensable vapor therefrom, thence conducting the stripped volatiles and gas in co-current relationship to a point where the volatiles are separated from the non-condensable gas in the form of solid crystals, and converting said crystals into a fluid.

2,666,708

MAINTAINING STABILITY OF VEGETABLE OILS UNDERGOING HEATING

Joseph A. Chenicek, Bensenville, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application August 9, 1949, Serial No. 109,402

2 Claims. (Cl. 99—163)

1. In roasting, frying and cooking operations, the method of maintaining the stability of vegetable oil utilized therein which comprises adding a tertiary-alkyl-4-alkoxyphenol to said vegetable oil in an amount of from about 0.001% to about 0.5% prior to the operation, and during the operation adding vegetable oil to compensate for the vegetable oil lost during the operation, the added vegetable oil containing a percentage amount of tertiary-alkyl-4-alkoxyphenol in excess of that added at the start of the operation in order to likewise compensate for the tertiary-alkyl-4-alkoxyphenol lost during the operation.

2,666,709

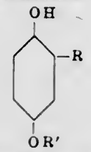
STABILIZATION OF EDIBLE OILS AND FATS

Robert H. Rosenwald, Western Springs, and Joseph A. Chenicek, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 24, 1945, Serial No. 624,318

21 Claims. (Cl. 99—163)

1. A process for stabilizing edible fatty oils and fats against rancidity which comprises incorporating therein a small amount of a compound having the general structure



where R is a tert-butyl group and R' is an alkyl group of not more than five carbon atoms.

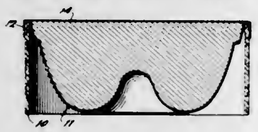
2,666,710

SOFT PLASTIC FOOD PACKAGE

Leo Peters, Evanston, Ill.

Application July 29, 1950, Serial No. 176,634

3 Claims. (Cl. 99—171)



1. In a soft plastic food package, the combination comprising a thin, flexible thermoplastic film providing a reversible cup, said cup having downwardly and inwardly tapering side walls and a bottom wall having upwardly-extending portions, a support disposed about said cup, said cup being suspended from said support so that said cup can be reversed and with the side and bottom walls of said cup out of contact with said support, a soft plastic food body within said cup conforming to its shape and pressing downwardly against the upwardly-extending portions of said bottom wall so as to tend to depress said upwardly-extending portions, and a relatively stiff reinforcing sheet laminated to the bottom wall of said pocket and overlying the upwardly-extending portions of said bottom wall while terminating short of said downwardly-extending side walls.

2,666,711

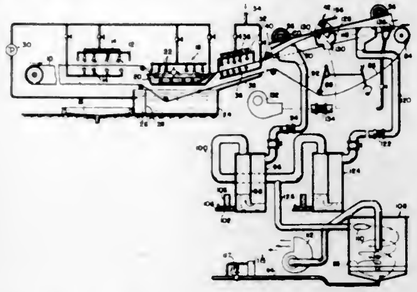
METHOD AND APPARATUS FOR PROCESSING LEAFY VEGETABLES

Richard B. Crosset, Cincinnati, Ohio, assignor to The Crosset Company, Cincinnati, Ohio, a partnership

Application September 20, 1951, Serial No. 247,531

19 Claims. (Cl. 99—204)

1. In an apparatus for washing and drying leafy vegetables, a perforated conveyor belt, means for feeding leafy vegetables to said belt, a washing station through which the conveyor belt passes for removing soil from said leafy vegetables, a frame beyond the washing station engaging the edges of said conveyor belt, a pair of suction nozzles engaging the underneath side of said belt within said frame for retaining and drying the moisture on the leafy vegetables while being carried by said belt, means resiliently supporting said frame, means for oscillating said frame whereby the leafy vegetables are continuously shaken, said suction nozzles being spaced apart, and a pressure nozzle communicating with the



underneath side of said conveyor belt between said suction nozzles and directing air upwardly through said belt onto said leafy vegetables as they pass thereover.

2,666,712

STICKER COMPOSITION FOR INSECTICIDES AND FUNGICIDES

Earl D. Cornwell, Downers Grove, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application July 28, 1951, Serial No. 239,195

6 Claims. (Cl. 106—124)

1. A sticker composition for insecticides and fungicides, consisting substantially of about 10–15% sienna, 20–50% of soluble blood protein, and about 30–67% of bentonite, such percentages being by weight.

2,666,713

PLASTICIZER AND MOISTURE RETENTIVE COMPOSITION FOR PAPER AND PAPER CONTAINING IT

Louis Lang and Ronald J. Baird, Philadelphia, Pa., assignors to The National Sugar Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application February 8, 1950, Serial No. 143,166

16 Claims. (Cl. 106—162)

1. A plasticizer and moisture retentive composition for paper, the essential paper plasticizing and moisture retentive constituents of which consist essentially of (I) a sugar and (II) urea, in proportions between one of the sugar to nine of urea and one of urea to nine of the sugar, and (III) a water-soluble cyclic acetal of a sugar in an amount from one to fifty percent by weight of the composition and with under four carbon atoms in the alkylidene group.

2,666,714

TARNISH-RESISTANT BRONZE POWDER AND TREATMENT PROCESS THEREFOR

Joseph Halberstadt, Malone, N. Y., assignor to Malone Bronze Powder Works Inc., Malone, N. Y.

No Drawing. Application May 13, 1950, Serial No. 161,895

4 Claims. (Cl. 106—290)

1. A process for treating commercial, initially fatty-lubricated, lamellar copper-base bronze powder, for rendering said powder resistant to tarnish discoloration, comprising confining such

a powder within an enclosure, maintaining in said enclosure a treating gaseous atmosphere, heating the powder at temperatures above 300° C. and below the sintering temperature of the particular powder being treated, continuing the heating until the initial fatty lubricant has been decomposed into a hard, transparent, invisible film covering the individual particles of the powder, and using a treating atmosphere having no decarburizing action on the particle's film, said atmosphere consisting of a gas chosen among the hydrocarbon gases, nitrogen, helium, carbon monoxide and also carbon dioxide in presence of organic matter vapors.

2,666,715

METHOD FOR DETERMINING AND MIXING COLORS

Otto Syreeni, Helsinki, Finland

No Drawing. Application July 29, 1949, Serial No. 107,635

Claims priority, application Sweden February 21, 1946

3 Claims. (Cl. 106—309)

1. The method of blending red, yellow and blue coloring materials to a desired color intensity and shade comprising determining the reciprocal color intensity of the given coloring components of the desired color to be obtained and then blending the colors quantitatively in the ratio of their reciprocal color intensities to produce the desired shade and hue, said reciprocal color intensity being determined by measuring the minimum critical quantity of the coloring material of unknown coloring power required to produce a coloring effect upon a substantially stronger color containing a shade modifying quantity of a weaker color other than the unknown coloring material other than merely deepening the color thereof, said stronger color being selected from the group consisting of bright red, bright yellow and bright blue, and said unknown color being a color of this group other than the stronger color.

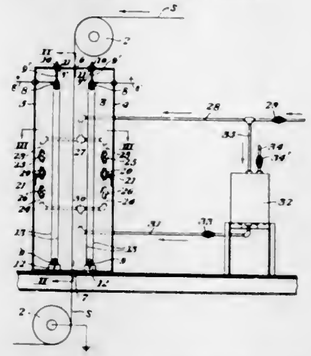
2,666,716

METHOD FOR APPLYING A LIQUID FILM TO STRIP-LIKE MATERIAL

Alfred E. Kadell, Steubenville, Ohio, assignor to National Steel Corporation, a corporation of Delaware

Original application November 15, 1944, Serial No. 563,564. Divided and this application March 7, 1950, Serial No. 148,088

1 Claim. (Cl. 117—68)



The method of continuously applying a minute but controlled amount of oily liquid in a thin uniform layer to each surface of electro-coated tinplated strip delivered from an electrolytic high speed tinplating line, which method comprises continuously passing the tinplated strip from the line through a zone at a high speed corresponding to the speed of the strip in the line, forming an electrostatic field in the zone on both sides of the strip including the step of applying a potential of one polarity to the strip, atomizing a stream of oily liquid to form finely divided particles of oily liquid dispersed in a gaseous medium, passing the atomized oily liquid into the electrostatic field on both sides of the strip so that particles of oily liquid charged to a polarity opposite the polarity of the strip are propelled to each surface of the strip, and controlling the amount of oily liquid passed into the field and the intensity of the electrostatic field in accordance with the speed of the strip moving through the zone to deposit on both surfaces of the strip a uniform film of oily liquid in a quantity at least equal to 0.1 gram and no greater than 0.5 gram of oily liquid per base box.

2,666,717

PATENT LEATHER AND COATING COMPOSITION FOR USE IN MAKING SAME

Salimuzzaman Siddiqui and Digish Chandra Dhar, Delhi, India, assignors to Council of Scientific and Industrial Research, New Delhi, India

No Drawing. Application August 10, 1948, Serial No. 43,553

2 Claims. (Cl. 117—86)

1. A coating composition particularly adapted for use in producing a base coat in the manufacture of patent leather which comprises butyl acetate 35 parts, a solvent selected from a class consisting of butanol and fusel oil 15 parts, methanol 15 parts, solvent naphtha 10 parts, turpentine 10 parts, film scrap 6 parts, oil resin 14 parts and dibutyl phthalate; the major components of said composition being maintained within the range of from about 5 parts above to 5 parts below the specific proportions indicated the said oil resin being the product resulting from the copolymerization of bhilawan shell liquid with a vegetable oil and with an oleoresinous material, selected from a class consisting of rosin and turpentine, by treatment with nitric acid at a temperature of from about 40° to 50° C.

2,666,718

PREPARATION OF SHEET MATERIAL WITH REMOISTENABLE GUM COATING

Austin E. Davis, Nashua, N. H., assignor to Nashua Corporation, a corporation of Massachusetts

No Drawing. Application May 25, 1950, Serial No. 164,285

5 Claims. (Cl. 117—122)

1. The method of preparing sheet material having adherent thereto a thin, minutely porous film of solidified gum adapted on water moistening of the surface of the film to develop an adhesive tackiness therein comprising preparing a coatable aqueous solution of the gum, adding thereto material in itself decomposable under the conditions of drying with resultant evolution of carbon dioxide gas together with a volatile ingredient of high pH value inhibitive of such decomposition and volatilizing under the conditions of drying, coating the sheet material with a thin film of the so prepared composition and drying the film to dissipate the inhibiting ingredient gradually with consequent gradual evolution of gas concurrently with the setting of the gum.

2,666,719

RESINOUS COATED ARTICLE AND METHOD OF MAKING SAME

Kenneth J. Lissant, Kirkwood, Mo., assignor to Petrolite Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 28, 1950, Serial No. 152,501
22 Claims. (Cl. 117—132)

1. An article comprising a structure having thereon a coating comprising a polymerized coating composition, derived by the substantially completed polymerization on said structure of a mixture including: (A) about 58%–65% of a mixture of furfural and furfuryl alcohol, in a ratio of between 45–55 and 65–35 furfural-to-furfuryl alcohol; (B) about 2%–8% of a hard ketone-soluble polyvinyl resin; (C) about 6%–20% of a montmorillonite clay from the class consisting of bentonites, semi-bentonites, fuller's earths, and activated semi-bentonites; and (D) about 14%–18% of a volatile organic solvent; said polymerization having been effected by admixing said mixture with about 1%–4% of an acidic polymerization catalyst, shortly prior to application to the structure.

2,666,720

METHOD OF REMOVING STARCH FROM THE BINDER ON GLASS CLOTH

Emil H. Balz, Waterville, Ohio, assignor to Glass Fibers, Inc., Waterville, Ohio, a corporation of Ohio

Application May 28, 1951, Serial No. 228,625
10 Claims. (Cl. 134—2)



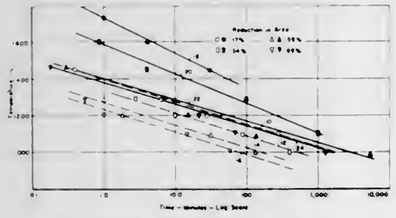
1. In a process for the removal of hydrophilic materials from a binder on glass cloth the step of soaking the glass cloth in an aqueous solution of urea.

2,666,721

PROCESS OF PRODUCING DUCTILE MOLYBDENUM

James H. Bechtold, Benjamin Lustman, and Howard Scott, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 20, 1951, Serial No. 216,496
5 Claims. (Cl. 148—11.5)



1. In the process of producing completely recrystallized ductile molybdenum base metal from the group consisting of molybdenum and alloys of molybdenum and tungsten in solid solution, the steps comprising, subjecting the molybdenum base metal to a temperature between 800° C. and the recrystallization temperature of the metal to reduce the resistance of the metal to deformation, applying deformation to the heated metal in an amount equivalent to a reduction in area between 5% and 50%, repeating the alternate steps of heating the metal below the recrystallization temperature and above 800° C. and deforming the metal to effect a total deformation equivalent to a total reduction in area in excess of 60%, the time of heating at any given temperature being determined by both the temperature and the reduction in area in accordance with the showing in Figure 1 of the drawing, wherein for a given reduction in area indicated by a dashed line curve, the time of heating employed at any given temperature is below the dashed line, and similarly in proportion thereto for a reduction in area other than shown by the dashed lines, and thereafter annealing the deformed metal at a temperature for a period of time comprising a minimum of ½ hour at 1150° C. to one minute at 1675° C. above the recrystallization temperature to completely recrystallize the metal to a substantially uniform grain size not coarser than No. 6 ASTM, the recrystallized metal having a ductility in excess of 60% reduction in area at room temperature.

2,666,722

METAL TREATMENT

Samuel Epstein, Bethlehem, Pa., and Herbert J. Cutler, Buffalo, N. Y., assignors to Bethlehem Steel Company, a corporation of Pennsylvania

No Drawing. Application May 4, 1948, Serial No. 25,088
5 Claims. (Cl. 148—12)

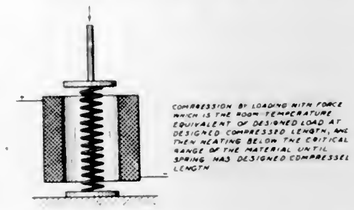
1. In a method of producing sheet, the steps of hot rolling a blank of rimmed steel containing vanadium between about .01% and about .15% into strip and slow cooling the strip from near the hot finishing temperature and while it is at least 1400° F.

2,666,723

METHOD OF MANUFACTURING HELICAL COIL COMPRESSION SPRINGS

Elliott W. Stewart, Chicago, Ill., assignor to Associated Spring Corporation, Bristol, Conn., a corporation of Delaware

Application December 19, 1951, Serial No. 262,441
1 Claim. (Cl. 148—12)



The method of manufacturing, from spring wire formed of a steel having a critical range and capable of being formed into a spring which will be reduced in length by the application of pressure and at least A degrees of heat, which temperature is below the critical range of the spring wire, a helical coil compression spring having a finished free length of X inches and designed to carry a load of Y pounds when compressed from its free length to a length of Z inches, which comprises the steps of forming an initial helical coil which is longer than X inches, removing coiling strains by heating, compressing the helix by loading it with the equivalent of Y pounds thereby compressing it to a length greater than Z inches at room temperature, then while maintaining such loading heating the helix to a temperature which is below A degrees but which is sufficient to reduce the elastic limit of the material while the heating is continued, and maintaining such heating until the helix is reduced to Z inches in length, and thereupon immediately removing the pressure and heat from the coil.

2,666,724

PROCESS OF PREPARING IRON POWDER OF IMPROVED ELECTROMAGNETIC PROPERTIES

Hans Beller, Cranford, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 3, 1952, Serial No. 323,943
3 Claims. (Cl. 148—16.6)

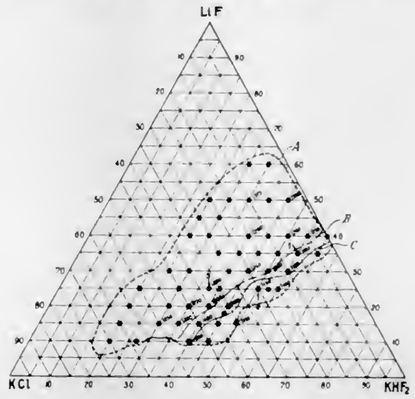
1. The process of improving the electromagnetic properties of carbonyl iron powders which comprises heating pulverulent iron obtained by the thermal decomposition of iron pentacarbonyl at a temperature ranging from 450° to 500° C. in the presence of ammonia gas for a period of time ranging from 4 to 10 hours, and cooling the heated powder with dry nitrogen.

2,666,725

BRAZING FLUX

Ernest S. Chamer, Fairfield, Conn., assignor to Handy & Harman, New York, N. Y., a corporation of New York

Application November 30, 1951, Serial No. 259,037
6 Claims. (Cl. 148—26)



2. A flux for use in the silver alloy brazing of titanium and related metals, which consists essentially of LiF, KCl, and KHF_2 present in the same weight proportions as in the compositions lying approximately within the area defined in the accompanying drawing by the line A.

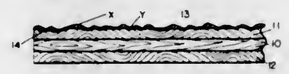
2,666,726

METHOD OF MAKING MASKED LIGNOCELLULOSIC MATERIAL

Glengarry D. King, Washington, D. C., and Russell V. Harkema, Seattle, Wash., assignors to Crown Zellerbach Corporation, San Francisco, Calif., a corporation of Nevada

Application April 21, 1951, Serial No. 222,264
1 Claim. (Cl. 154—106)

The method of manufacturing an improved masked board, which method comprises covering a face of a plywood panel with a sheet of paper treated with a phenol-formaldehyde resin, the amount of said resin in said sheet being not less than approximately 20% of the weight of the finished sheet, the resin having been precipitated on the fibers in the sheet in the making of the sheet, using a phenol-formaldehyde resin glue for attaching said sheet to said face of said plywood panel, placing said plywood panel in a heated press under a pressure of approximately 200 pounds per square inch at a temperature of approximately 300° F. for about 7 minutes in order to effect partial curing of the resin in



said sheet and a curing of the resin in said glue, and molding said covered plywood panel face into a design pattern by passing the same under a heated embossing roll having a surface heat of approximately 600° F. at a speed of 30 to 35 feet per minute and under pressure of at least 400 pounds per square inch, whereby the resin in the valleys in said molded design will be darker in color than the ridges in said design without causing a scorching of said sheet, and thereby providing a better masking for said plywood face.

2,666,727

ALKYL p-NITROPHENYL BENZENEPHOSPHONATE

Arthur G. Jelinek, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 8, 1950, Serial No. 148,500
7 Claims. (Cl. 167—30)

1. A method for the control of aphides which comprises applying to a locus to be protected in amount sufficient to exert an aphicidal action, an alkyl p-nitrophenyl benzenephosphonate in which the alkyl group contains from two thru four carbon atoms.

2,666,728

PREPARATION FOR MANGE AND FUNGUS ECZEMA

Clifford R. Smith, Chamblee, Ga.

No Drawing. Application February 27, 1951, Serial No. 213,043
2 Claims. (Cl. 167—53.2)

1. A medicinal preparation for the treatment of sarcoptic and demodectic mange and fungus eczema which comprises a member selected from the group consisting of bornyl thiocyano acetate, isobornyl thiocyano acetate and camphene thiocyano acetate, a lower alkyl dimethyl benzyl ammonium chloride, a polyethylene oxide ether of nonyl phenol and an inert carrier.

2,666,729

PROCESS FOR PURIFYING STREPTOKINASE

Werner Baumgarten, Drexel Hill, Pa., assignor to Merck & Co., Inc., a corporation of New Jersey

No Drawing. Application June 14, 1951, Serial No. 231,661
4 Claims. (Cl. 167—73)

1. The process of concentrating and purifying streptokinase from a culture broth containing streptokinase which comprises adjusting the pH of the broth to within the pH range of 3.5 to 5.0, admixing therewith a diatomaceous earth,

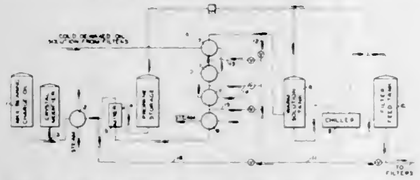
separating the diatomaceous earth from the broth, admixing the diatomaceous earth with an alkaline solution at pH 7.0 to 8.0 and separating the solution from the diatomaceous earth.

2,666,730

DEWAXING PROCESS

Joseph E. Storment, Kansas City, Mo., assignor to Phillips Petroleum Company, a corporation of Delaware

Application October 24, 1951, Serial No. 252,956
9 Claims. (Cl. 196—18)



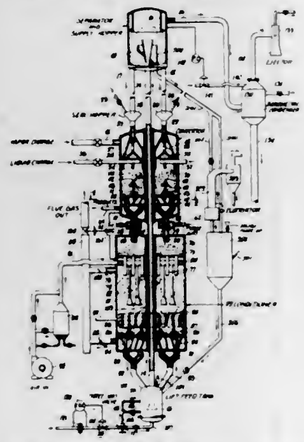
1. In a hydrocarbon oil dewaxing operation in which the oil is mixed with a solvent and then chilled prior to a wax filtering operation and wherein the filter rate tends to decrease for no apparent reason, the step of causing normal desirable filter feed rate which comprises recycling a portion of the chilled filter feed to a point in the operation immediately preceding the admixture of solvent and immediately admixing said oil and filter feed mixture with solvent ahead of the chilling step.

2,666,731

METHOD AND APPARATUS FOR HYDROCARBON CONVERSION

Eric V. Bergstrom, Short Hills, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application February 12, 1949, Serial No. 76,017
15 Claims. (Cl. 196—52)



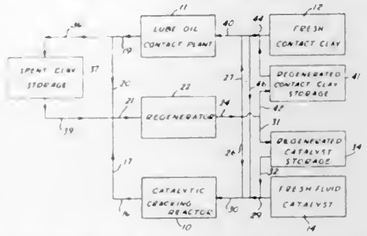
1. In a continuous process for conversion of hydrocarbons wherein a granular contact material is passed cyclically through two contacting zones, one being a confined conversion zone in which it contacts a fluid hydrocarbon to effect conversion thereof to gasiform products, and the other contacting zone being a confined reconditioning zone in which the contact material is subjected to a suitable reconditioning gas to recondition it for reuse in said conversion zone the improved method of transferring the contact material from one of said contacting zones to the other which comprises, passing the contact material downwardly from one of said contacting zones onto a substantially compact bed of said contact material maintained therebelow in a confined zone, maintaining a confined lift passage extending upwardly from an intermediate location in said bed to a location above the other contacting zone, said passage being in communication on its downwardly facing lower end with said bed, supplying a first stream of lift gas into said confined zone so that it may enter the lower end of said lift passage without having passed the gas through any substantial portion of the substantially compact bed, introducing a second stream of lift gas into said bed a spaced distance away from the lower end of said lift passage and flowing it through the intervening portion of said bed into the lower end of said lift passage, thereby inducing contact material from within said bed to flow into said first stream, lifting the contact material suspended in the mixed gas streams upwardly through said lift passage to said location above said other contacting zone and flowing it from said location to said other contacting zone and controlling the rate of contact material entry into said lift passage by controlling the rate of introduction into said bed of said second stream of lift gas, the rate of introduction of said second stream being changed without an accompanying change in the rate of supply of said first stream in the same direction whenever it is desired to change the rate of contact material entry into said lift passage.

2,666,732

METHOD OF TREATING HYDROCARBONS WITH A DOUBLE-FUNCTION CATALYST

Elliott B. McConnell, Shaker Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

Application February 12, 1949, Serial No. 76,104
4 Claims. (Cl. 196—52)



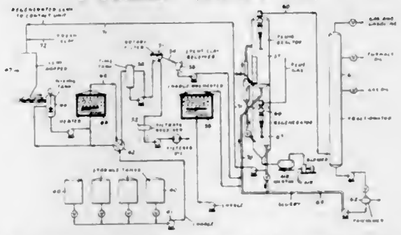
1. A method of treating hydrocarbons which comprises contacting a lubricating oil in the liquid phase in a contact zone with a first stream of adsorbent silica-alumina contact catalytic material having both adsorbent and catalytic cracking properties and being in finely divided powder form for decolorizing said lubricating oil, cracking hydrocarbons in a fluid catalytic cracking zone by contact with a second stream of adsorbent silica-alumina contact catalytic material likewise having both adsorbent and catalytic cracking properties and being in a finely divided powder form, passing all of the silica-alumina contact catalytic material in said first and second streams from said contact and cracking zones, respectively, directly into and through a fluidized regeneration zone for regeneration of the adsorbent and catalytic properties of the contact catalytic material in both said streams, recycling one portion of said regenerated contact catalytic material directly to the contact zone, and recycling the remainder of said regenerated contact catalytic material direcly to the fluid catalytic cracking zone.

2,666,733

METHOD OF TREATING HYDROCARBONS

Warner E. Scovill, Lakewood, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

Application April 27, 1950, Serial No. 158,479
3 Claims. (Cl. 196—52)



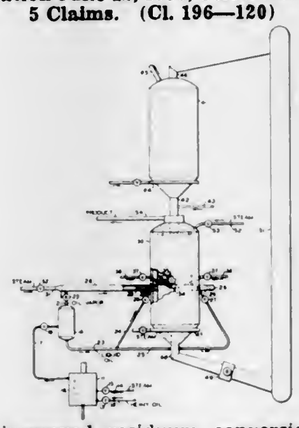
1. A method of treating hydrocarbons which comprises contacting a lubricating oil in the liquid phase in a contact zone with a finely divided, adsorbent silica-alumina contact catalytic material, having both adsorbent and catalytic properties and a particule size such that about 95% of the particles pass through a 200-mesh screen, for decolorizing said lubricating oil, separating said material from the decolorized oil, cracking hydrocarbons in a fluid catalytic cracking zone by contact with said separated contact catalytic material, regenerating said contact material in a fluidized regenerating zone, and recycling said regenerated contact material successively to said contact and fluid catalytic cracking zones.

2,666,734

APPARATUS FOR CONVERSION OF RESIDUAL OILS

Robert A. Findlay, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application June 12, 1950, Serial No. 167,630
5 Claims. (Cl. 196—120)



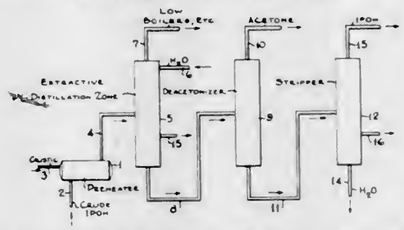
1. An improved residuum conversion system comprising an upright pebble heater chamber having pebble inlet means and effluent outlet means in its upper end portion; heating material inlet means in the lower portion of said pebble heater chamber; an upright conversion chamber disposed below said pebble heater chamber; a pebble conduit extending between the lower end portion of said pebble heater chamber and the upper end portion of said conversion chamber; a perforate pebble support member extending inwardly from the wall of said conversion chamber at a level intermediate its ends, said pebble support member providing a pebble passage centrally therethrough; pebble outlet means in the lower portion of said conversion chamber; an elevator extending from said pebble outlet means in said conversion chamber to said pebble inlet means in said pebble heater chamber; at least one fog nozzle extending through the wall of said conversion chamber and adjacent the lower side of said pebble support member; an oil residuum heating chamber having residuum conduit means extending therethrough; a flash chamber; a conduit extending from said residuum conduit means in said residuum heating chamber to a point intermediate the ends of said flash chamber; a gaseous material conduit extending between the upper end of said flash chamber and the inlet end of said fog nozzle; a liquid material conduit extending from the bottom of said flash chamber to said fog nozzle; and a gaseous effluent outlet in the upper portion of said conversion chamber.

2,666,735

PURIFICATION OF ISOPROPYL ALCOHOL

Charles E. Morrell, Westfield, Carl S. Carlson, Roselle, and Carter E. Porter, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application August 13, 1949, Serial No. 110,188
9 Claims. (Cl. 202—39.5)



1. A process for the purification of crude isopropanol prepared by an acid catalyzed olefin hydration process and containing low-boiling impurities including acetone and minute amounts of malodorous bodies introduced by the olefin utilized and giving rise to "mercaptan odor" which consists of, adjusting the pH of the crude isopropanol to 8.0 to 10.0, preheating the crude alcohol in the liquid phase under pressure of 15 to 300 p. s. i. g. to a temperature of 65° C. to 150° C. for a period of 1 to 3 hours, introducing the preheated crude alcohol into an extractive distillation zone wherein vapors of the crude alcohol are distilled countercurrent to an internal aqueous reflux containing 70–99 mol per cent water for removal of low-boiling materials including part of the acetone overhead and to obtain an aqueous solution of isopropanol containing some acetone as bottoms, distilling the remaining acetone from the aqueous alcohol bottoms, and stripping purified isopropanol-water azeotrope free of malodorous bodies from the deacetonized aqueous isopropanol.

2,666,736

SEPARATION OF n-PROPYL AND SEC. BUTYL ALCOHOLS BY AZEOTROPIC DISTILLATION

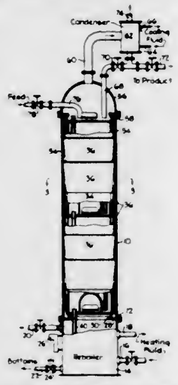
Nat C. Robertson and James W. Walker, Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application June 9, 1950, Serial No. 167,259
5 Claims. (Cl. 202—42)

1. Process for the separation by distillation operations of a crude mixture of alcohols includ-

ing n-propyl and secondary butyl alcohol, which comprises adding water and an azeotroping agent, selected from the group consisting of cyclohexane and methylcyclohexane, to the crude mixture, distilling the resulting mixture to form a ternary azeotrope comprising water, n-propyl alcohol and the azeotroping agent, condensing the ternary azeotrope, decanting the aqueous layer formed on condensation of said ternary azeotrope, and distilling the aqueous layer to obtain purified n-propyl alcohol.

2,666,737
FRACTIONATING COLUMN WITH REMOVABLE TRAYS
Charles O. Hurd, Piedmont, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application January 10, 1949, Serial No. 70,024
14 Claims. (Cl. 202—153)

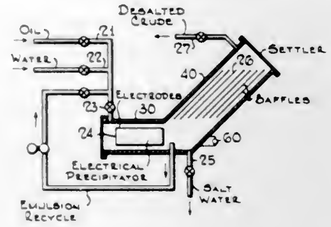


1. A fractionating column comprising: a closed vertical shell having a top opening with a removable, fluid-tight closure and being adapted to maintain a pressure differential between the interior and exterior thereof; a plurality of at least three tray sections within said shell forming a vertical series of contact stages, each section having a tray deck with passageways for the upward flow of vapor and the downward flow of liquid through the decks arranged to effect intimate contact between said liquid and vapor with a pressure drop between stages, said tray sections being shaped to permit unimpeded vertical movement thereof as separate units through the shell to the top thereof and through said top opening upon removal of said closure; a closed annular wall on each tray section extending in sealed relation from the deck thereof vertically to a corresponding annular portion on an adjacent section, said walls enclosing liquid and vapor contact spaces within themselves, and the wall and decks of at least a plurality of lower sections having clearances with respect to the shell to define a common outer space between the shell and said lower sections extending vertically through the height of several tray sections; an annular seal between each annular wall and its corresponding annular part on the adjacent section arranged to prevent the outward flow of vapor from said contact spaces into said outer space, each seal comprising a trough adapted to retain a pool of liquid that contacts the inner and outer sides of the annular wall, whereby said seals can be established by successively lowering tray sections through the shell and said contact spaces can be maintained at progressively different pressures independent of the pressure in said outer space; seal means between the lowermost tray section and the shell closing off the bottom of said outer space, whereby the pressure in said outer space is isolated from the pressure immediately beneath the tray deck of said lowermost tray section; and a vapor passageway interconnecting said outer space with one of the upper contact spaces, whereby the pressure in said outer space will be that of said one upper contact space.

2,666,738
BRIGHT SILVER PLATING
Otto Kardos, Keyport, N. J., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J., a corporation of New Jersey
No Drawing. Application September 15, 1950, Serial No. 185,171
10 Claims. (Cl. 204—46)

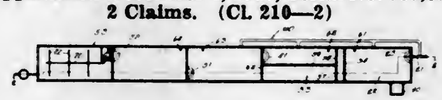
1. A process for producing bright silver electrodeposits, which comprises electrodepositing silver from an aqueous cyanide silver plating bath containing 0.02 to 0.04 oz./gal. (0.15 to 0.30 g./liter) of the solid, water- and acid insoluble but alkali soluble reaction product of a ketone of the formula RCH_2COCH_3, where R comprises a substituent selected from the group consisting of hydrogen, alkyl, acetonyl (CH_3COCH_2—) and alkali metal carboxymethyl (—CH_2COONa, —CH_2COOK), with carbon disulfide and alkali hydroxide, this reaction product having been precipitated by addition of a strong mineral acid and freed from alkali sulfide and hydrogen sulfide.

2,666,739
ELECTRICAL COALESCENCE PROCESS
John W. Packie, Maplewood, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application April 28, 1949, Serial No. 90,136
2 Claims. (Cl. 204—190)



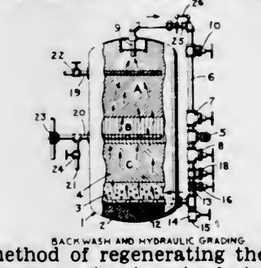
1. Process for the removal of salt from a hydrocarbon which comprises adding water to said hydrocarbon, intimately mixing the added water and said hydrocarbon at an elevated temperature and pressure whereby emulsification of the hydrocarbon and added water results, introducing the mixture into an integral separation zone consisting of a high voltage electrical coalescent section and an immediately adjoining settling section, passing the mixture through said high voltage coalescent section, whereby the mixture is partially resolved, then passing the partially resolved mixture from said electrical section without flow restriction to said settling section and along a plurality of spaced parallel surfaces therein, segregating a plurality of superimposed parallel substantially discrete streams in said settling section, whereby a hydrocarbon phase and an aqueous phase forms in each of said discrete streams, recombining the hydrocarbon phases and withdrawing the combined hydrocarbon phases from the upper area of said separation zone, recombining the water phases and withdrawing the combined water phases from the bottom of said separation zone, said process being particularly characterized by internal recycling of the said mixture between sections.

2,666,740
METHOD FOR PURIFICATION OF SEWAGE
Arthur Gordon, Chicago, Ill.
Application December 4, 1947, Serial No. 789,695
2 Claims. (Cl. 210—2)



1. The method for providing for bacterial purification of sewage which comprises introducing a first mass of effluent containing both liquid and solid matter discharged during a period into a first zone, entraining oxygen in the introduced effluent, moving substantially all of the liquid and suspended solid portion of the effluent into a second zone and filtering oxygen upwardly through settled solids in the first zone by introducing effluent containing entrained oxygen into the lower portions of the first zone during approximately the first succeeding period to form a second mass of effluent therein, moving substantially all of the liquid and suspended solid portions of the first and second masses of effluent into a third and second zone respectively and filtering oxygen upwardly through settled solids in the first zone by introducing effluent containing entrained oxygen into the lower portion of said first zone during approximately the second succeeding period to form a third mass of effluent therein, and then removing liquid and suspended solid effluent from the third zone and discharging the last mentioned effluent into a filter bed by introducing effluent into the first zone.

2,666,741
REGENERATION OF MIXED SINGLE BED DEIONIZATION
James F. McMullen, Pelham, N. Y., assignor to Worthington Corporation, a corporation of Delaware
Application November 9, 1950, Serial No. 194,857
10 Claims. (Cl. 210—24)



1. The method of regenerating the anion and cation exchange resins in mixed single bed deionization apparatus wherein said exchange resins undergo a saturation and regeneration cycle consisting in, forming said mixed bed for normal operation during the saturation cycle of anion exchange resins, cation exchange resins having a specific density greater than the anion exchange resins and a third substance having a specific density intermediate that of said anion and cation exchange resin, prior to regeneration backwashing and hydraulically grading said mixed bed to form a layer of anion exchange resins in the upper portion of said bed, a layer of cation exchange resins in the lower portion of said bed and a layer of the third substance intermediate these anion and cation layers, regenerating said anion layer by passing anion regenerant solution downwardly through said anion layer and drawing off said solution through the intermediate layer, regenerating said cation layer by passing cation regenerant solution into said intermediate layer to allow it to displace downwardly by gravity flow through said cation layer, rinsing said entire bed to remove excess regenerant solution remaining therein, and air bumping the bed to mix said layers to return the bed to condition for the normal operation of said deionization apparatus and the saturation portion of the exchange resin cycle.

2,666,742
ACETYLENE SOLUTION
Harry M. Walker, Dickinson, Tex., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application November 5, 1952, Serial No. 318,950
10 Claims. (Cl. 252—1)

1. A composition of matter comprising a solution of acetylene in a trimethyl ester of an ortho aliphatic acid having the formula

$$R—C\equiv(OCH_3)_3$$

wherein R is selected from the group consisting of hydrogen and alkyl radicals containing from 1 to 3 carbon atoms.

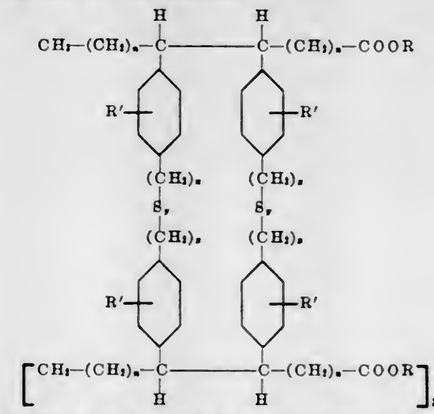
6. In a process for the recovery of acetylene from an acetylene containing gas, the step of treating said gas with a trimethyl ester of an ortho aliphatic acid having the formula

$$R—C\equiv(OCH_3)_3$$

wherein R is selected from the group consisting of hydrogen and alkyl radicals containing from 1 to 3 carbon atoms.

2,666,743
LUBRICATING COMPOSITIONS
Elmer W. Brennan, Carpentersville, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application October 27, 1950, Serial No. 192,631
13 Claims. (Cl. 252—33.6)

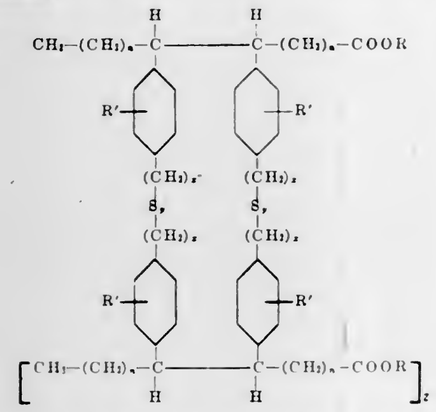
1. A new composition of matter comprising a compound of the formula



in which R is a radical selected from the group consisting of an alkyl group, hydrogen, a metal of the alkali series and a metal of the alkali earth series, R′ is an alkyl radical selected from the group consisting of primary, secondary and tertiary alkyl radicals, *n* is an integer of from

2 to 7, x is an integer from 0 to 4, y is an integer of at least 1, and z is an integer of 0 to 1.

7. A lubricating composition comprising a mineral lubricating oil having incorporated therein, in an amount sufficient to exhibit bearing corrosion, an oil-soluble compound of the formula



wherein R is a radical selected from the group consisting of an alkyl group, hydrogen, a metal of the alkali series and a metal of the alkali earth series, R′ is an alkyl radical selected from the group consisting of primary, secondary and tertiary alkyl radicals, n is an integer of 2 to 7, x is an integer of 0 to 4, y is an integer of at least 1 and z is an integer of 0 to 1.

2,666,744

SULFURIZED GREASE COMPOSITIONS

Joseph A. Dixon, Berkeley, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application March 5, 1952, Serial No. 275,027

16 Claims. (Cl. 252—33.6)

1. A grease composition comprising a major proportion of an oil of lubricating viscosity and from 3% to 50% of a sulfurized metal soap thickening agent obtained by reacting sulfur with a metal soap of an unsaturated fatty acid and containing from 0.25 to 1.0 atom of sulfur per double bond.

2,666,745

CORROSION PREVENTING AGENT

Leo V. Mullen, Jr., Clifton, and James M. Boyle, Bayonne, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 1, 1950, Serial No. 198,763

16 Claims. (Cl. 252—47)

1. A hydrocarbon oil containing a corrosion inhibiting amount of a product obtained by reacting together substantially equimolar amounts of a dialiphatic hydrocarbon substituted cyanamide, containing 1 to 30 carbon atoms in each aliphatic group and containing at least one unsaturated grouping in at least one of such aliphatic groups, and an amine selected from the the group consisting of primary and secondary aliphatic and cycloaliphatic amines containing 1 to 30 carbon atoms at a temperature of 100–250° C., and sulfurizing such reaction product by reacting the same with elemental sulfur until 10 to 30% of sulfur is combined therewith.

2,666,746

LUBRICATING OIL COMPOSITION

John C. Munday, Cranford, and Dilworth T. Rogers, Summit, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 11, 1952, Serial No. 303,827

8 Claims. (Cl. 252—36)

1. A lubricating oil composition comprising a major proportion of mineral oil and a small amount, sufficient to depress the pour point thereof, of an oil-soluble copolymer of a vinyl ester of a fatty acid having from 2 to 18 carbon atoms and a dialkyl fumarate wherein each alkyl group ranges from not less than 10 to not more than 18 carbon atoms.

2,666,747

MINERAL OIL COMPOSITION CONTAINING COPOLYMERS OF ITACONIC ACID ESTERS AND A VINYL ESTER OF A FATTY ACID

Jeffrey H. Bartlett, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 11, 1952, Serial No. 303,829

6 Claims. (Cl. 252—56)

1. A lubricating composition consisting essentially of a waxy mineral oil having combined therein from 0.01 to 10.0% by weight, based on the weight of the total composition, of a copolymer of from about 270 to 144 parts by weight of an itaconic acid ester having from 10 to 18 carbon atoms in each ester group and from about 75 to 30 parts by weight of a vinyl ester of a fatty acid having from 2 to 18 carbon atoms, said copolymer having a molecular weight within a range of from 2,000 to 20,000.

2,666,748

HYDROGEN CYANIDE-COBALT CARBONYL REACTION PRODUCT

Paul Arthur, Jr., and Burt Carlton Pratt, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original application January 7, 1950, Serial No. 137,481. Divided and this application February 7, 1952, Serial No. 270,524

1 Claim. (Cl. 252—438)

A product of the reaction, at 0–200° C., of anhydrous hydrogen cyanide with cobalt carbonyl, $Co_2(CO)_8$, said product being blue-purple in color, of 23–44% cobalt content and 16–38% nitrogen content, soluble in aqueous potassium cyanide solution with the evolution of carbon monoxide to an aqueous solution which on heating gives potassium cobalticyanide.

2,666,749

SPHEROIDAL ALUMINA

James Hoekstra, Evergreen Park, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application November 21, 1951, Serial No. 257,634

6 Claims. (Cl. 252—448)

1. A method of preparing substantially spherical alumina particles which comprises forming alumina sol, commingling said sol with water to form a mixture containing from about 15% to about 35% by weight of alumina, separately commingling ammonium acetate with water and adding ammonium hydroxide thereto in an amount to regulate the pH of the resultant mixture to below about 8.5, commingling said ammonium acetate-ammonium hydroxide solution with the alumina sol at a temperature below about 110° F. and maintaining the mixture at below about 110° F. to prevent gelation thereof, thereafter passing droplets of the ungelled mixture into an oil bath maintained at a temperature of from about 120° to about 220° F., retaining the droplets in said oil bath until the droplets set to hydrogel spheres, and immediately thereafter aging said hydrogel spheres in a basic medium.

2,666,750

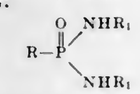
POLYMERIC PHOSPHONIC ACID DIAMIDES

Joseph B. Dickey and Harry W. Coover, Jr., Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application February 2, 1951, Serial No. 209,198

12 Claims. (Cl. 260—2)

1. A process for preparing a resinous polymer of a phosphonic acid diamide comprising heating at a temperature of from 150° to 400° C., a monomeric phosphonic acid diamide having the general formula:



wherein R represents a member selected from the group consisting of an alkyl group containing from 1 to 4 carbon atoms, a phenyl group and an alkenyl group containing from 3 to 7 carbon atoms and R_1 is selected from the group consisting of an atom of hydrogen and an alkyl group containing from 1 to 4 carbon atoms.

2,666,751

SPONGE RUBBER COMPOSITION AND METHOD OF MAKING SPONGE RUBBER

Harry L. Wunderly, Cuyahoga Falls, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application September 16, 1949, Serial No. 116,209

9 Claims. (Cl. 260—2.5)

1. The process of making sponge rubber which comprises incorporating into a plastic vulcanizable rubber compound containing suitable curing agents, one to fifteen parts of a dinitrosopentamethylene tetramine, and one-half to ten parts of an organic sulfonic acid, and thereafter heating the plastic rubber compound to a curing temperature while allowing it to expand.

2,666,752

STABILIZER FOR HALOGEN-CONTAINING POLYMERS

Oliver J. Grummitt and Robert E. Blank, Cleveland, Ohio, and Herbert F. Schwarz, Flossmoor, Ill., assignors to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application January 17, 1950, Serial No. 139,127

9 Claims. (Cl. 260—23)

1. A composition comprising a polyvinyl halide-containing polymeric resin and as a stabilizer therefor from about 0.1–10 parts per 100 parts of resin of a mono-ester of a high molecular weight fatty acid containing from 18 to 24 carbon atoms and a polyhydric alcohol, in which ester from 25% to below 75% of the available free hydroxyl groups have been acylated with an aliphatic acyl compound having the general formula:

R—X

wherein R is an aliphatic acyl radical of from 1 to 6 carbon atoms and X is selected from the group consisting of —OH, —SH, —OR, —SR, and halogen.

2,666,753

STABILIZATION OF VULCANIZED COPOLYMERS OF ISOBUTYLENE

Robert L. Zapp, Somerville, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application March 10, 1950, Serial No. 149,036

8 Claims. (Cl. 260—41.5)

1. A composition of matter comprising 100 parts of a solid, rubber-like copolymer of a major proportion of combined isobutylene and a minor proportion of a combined diolefin having 4 to 6 carbon atoms per molecule, curing agents consisting only of disulfide cross-link forming curing compounds including 0.5 to 10 parts of sulfur of vulcanization and about 5 to 8 parts of an oxidic metal compound containing 2 oxygen atoms per metal atom and having a decomposition temperature between 250 and 350° C., to stabilize the composition, after vulcanization, against cure reversion at high temperature.

2,666,754

REACTION PRODUCT OF SILICON MONOXIDE AND AMMONIA AND RUBBER COMPOSITIONS CONTAINING THE SAME

Daniel S. Sears, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application May 26, 1950, Serial No. 164,619

17 Claims. (Cl. 260—41.5)

1. A finely-divided amorphous composition of matter comprising a polymeric silicon oxyimide.

4. An elastomeric composition comprising a rubbery conjugated diene polymer and a finely-divided amorphous composition of matter comprising a polymeric silicon oxyimide.

2,666,755

VULCANIZABLE COMPOSITION

Laurence Baker, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application March 5, 1948, Serial No. 13,339

6 Claims. (Cl. 260—79.5)

1. A method of preparing a vulcanizable compound of a copolymer of isobutylene with a polymerizable diolefin of less than eight carbon atoms, which compound may be used for the preparation of molded rubber articles wherein tetramethyl thiuram disulfide is mixed with the rubbery copolymer, the step which comprises masticating said tetramethyl thiuram disulfide into said rubbery copolymer while simultaneously masticating tetraethyl thiuram disulfide into the rubbery copolymer whereby each of these disulfides is in contact with the other during the mixing step, the amount of said tetramethyl thiuram disulfide being 5% to 50% of the total of said disulfides.

2,666,756

NEW CATALYTIC PROCESS FOR THE POLYMERIZATION OF ETHYLENE

Thomas Boyd, Springfield, and Robert M. Dickey, North Wilbraham, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 24, 1950, Serial No. 152,994

8 Claims. (Cl. 260—94.9)

1. A process which comprises polymerizing ethylene in the substantial absence of oxygen in the presence of a hydrogenation catalyst, a promoter, carbon monoxide and hydrogen at temperatures of from 100°–400° C. and pressures of from 50–6,000 atmospheres, the hydrogenation catalyst being taken from the group consisting of metallic nickel and cobalt, the promoter being taken from the group consisting of copper, silver, zinc, iron, manganese, platinum, palladium, ruthenium, magnesium, chromium, aluminum, thorium, cerium and the oxides and inorganic salts thereof, the ratio of promoter to catalyst being from 0.01 to 10 parts of promoter per 100 parts of catalyst, the carbon monoxide being present in amounts ranging from 0.001 to 0.2 mol per mol of ethylene and the hydrogen being present in the ratio of from 1 to 3 mols per mol of carbon monoxide.

2,666,757

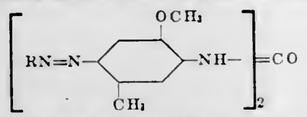
AZO DYES FOR CELLULOSIC FIBERS

Ludwig Richter, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application June 28, 1950, Serial No. 170,950

4 Claims. (Cl. 260—175)

1. Products of the following constitution:



wherein R is selected from the class consisting of 4,8-disulfonaphthylene, 5,7-disulfonaphthylene and 6,8-disulfonaphthylene, and in which the naphthalene ring is linked to the azo bridge in the 2-position thereof.

2,666,758

AZO COMPOUNDS HAVING ALKOXY AND CYANO GROUPS

John Raven Johnson, Ithaca, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 26, 1949, Serial No. 95,571

3 Claims. (Cl. 260—192)

3. An acyclic azo compound of the formula

$$ROCH_2C(CN)(R)—N{=}N—C(CN)(R)CH_2OR$$

wherein R is an alkyl radical of one to four carbons.

2,666,759

MANUFACTURE OF ACIDS AND SALTS FROM GUMS

William H. Wood, University Heights, Ohio, assignor to Harris-Seybold Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application June 19, 1948, Serial No. 34,153

4 Claims. (Cl. 260—209)

1. A process of making products from gums, comprising dissolving a naturally occurring exudate gum in water, separating any foreign particles, and reacting the dissolved gum with a cation exchange complex selected from the group consisting of sulphuric acid-treated carbonaceous materials, acid-treated zeolites and phenol-formaldehyde-sulphonic acid resins so as to decompose the gum and split the acid organic molecular portion from the combined bases and prevent degradation breakdown of the organic portion and eliminate materials which support bacterial and mold growth to form a decomposition-resisting product.

2,666,760

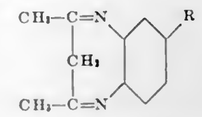
INSOLUBLE METHYL-BENZODIAZEPIN SALTS OF PENICILLIN

Gerard W. Curtis, Edgewater, and Sylvio A. De Lorenzo, Lawrence Township, Mercer County, N. J., assignors, by mesne assignments, to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 6, 1951, Serial No. 235,562

3 Claims. (Cl. 260—239.1)

1. A penicillin salt of a compound represented by the following formula:



wherein R represents a member of the group consisting of methyl and hydrogen.

2,666,761

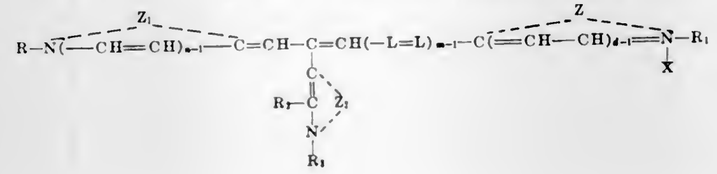
TRINUCLEAR POLYMETHINE DYES CONTAINING A PYRRYL INDOLYL, OR PYRROCOLYL NUCLEUS

Donald W. Heseltine and Leslie G. S. Brooker, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application January 23, 1952, Serial No. 267,928

9 Claims. (Cl. 260—240.1)

1. A polymethine dye selected from those represented by the following general formula:



wherein R and R_1 each represents an alkyl group, R_2 and R_3 each represents a member selected from the group consisting of a hydrogen atom, an alkyl group, and an aryl group and R_2 and R_3 together represent the non-metallic atoms necessary to complete a heterocyclic nucleus of the pyridine series, Z and Z_1 each represents the non-metallic atoms necessary to complete a heterocyclic nucleus containing from 5 to 6 atoms in the heterocyclic ring, Z_2 represents the non-metallic atoms necessary to complete a heterocyclic nucleus of the pyrrole series, X represents an acid radical, L represents a methine group, *m*, *n* and *d* each represents a positive integer of from 1 to 2.

2,666,762

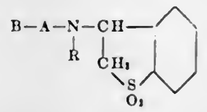
DERIVATIVES OF 3-AMINO-2,3-DIHYDROXY-THIONAPHTHENE - 1,1 - DIOXIDE AND PROCESSES FOR PREPARING THE SAME

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application April 27, 1951, Serial No. 223,459

8 Claims. (Cl. 260—247.1)

1. A member of the class of compounds consisting of 2,3-dihydrothionaphthene-1,1-dioxide derivatives of the following structural formula



and salts thereof, wherein R is a member of the class consisting of benzoyl and lower cycloalkanoyl radicals containing 4 to 5 nuclear carbon atoms; A is a saturated, bivalent, lower aliphatic hydrocarbon radical containing 2 to 6 carbon atoms; and B is a member of the class consisting of lower dialkylamino and morpholino radicals.

2,666,763

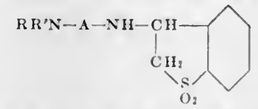
DERIVATIVES OF 3-AMINO-2,3-DIHYDRO-THIONAPHTHENE-1,1-DIOXIDE

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application March 16, 1953, Serial No. 342,734

9 Claims. (Cl. 260—247.1)

1. A compound of the structural formula



wherein A is a lower alkylene radical separating the two nitrogen atoms attached thereto by at least two carbon atoms and RR'N is a member of the class consisting of morpholino, pyrrolidino and piperidino radicals and radicals wherein R and R' are members of the class consisting of hydrogen and lower alkyl radicals.

2,666,764

PROCESS OF SPLITTING ARALKYL-HETEROCYCLIC THIOETHERS WITH ALUMINUM BROMIDE

Anthony E. Lanzilotti, Belleville, Anthony C. Shabica, Livingston, and John B. Ziegler, Summit, N. J., assignors to Ciba Pharmaceutical Products, Incorporated, Lafayette Park, Summit, N. J., a corporation of New Jersey

No Drawing. Application July 14, 1951, Serial No. 236,864

8 Claims. (Cl. 260—251)

1. A process for cleaving a heterocyclic thioether of the formula

X—S—R

wherein X stands for a heterocyclic radical of not more than two cyclic groups, said heterocyclic radical having at least two hetero atoms one of which is nitrogen and the other is selected from the group consisting of nitrogen, oxygen and sulfur, and R is an aryl.CH_2-group wherein aryl is an aromatic hydrocarbon of not more than 10 carbon atoms in the ring, which comprises reacting the said heterocyclic thioether with aluminum bromide in an inert solvent, treating the resulting mixture with an hydroxylated solvent to decompose the formed aluminum complex, and isolating the produced mercaptan of the formula X—S—H.

2,666,765

PRODUCTION OF ALKENYLTHIOPHENES

Herman Pines and Bruno Kvetinskas, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application December 10, 1949, Serial No. 132,422

5 Claims. (Cl. 260—329)

1. A process for producing (2-thienyl)-2-butene which comprises reacting chlorotertiary-butylthiophene with an alkali to effect dehydrochlorination.

2,666,766

PROCESS FOR THE DEMETHYLATION OF METHOXY DERIVATIVES OF FURO-4',5',-6,7-CHROMONES

Nasry Badran, Heliopolis, Cairo, Egypt, assignor to The Memphis Chemical Co., Cairo, Egypt, an Egyptian company

No Drawing. Application October 23, 1951, Serial No. 252,795

Claims priority, application Great Britain December 15, 1950

9 Claims. (Cl. 260—345.5)

1. A process of preparing 5-hydroxy furo-4',5',-6,7-chromones from the corresponding methoxy derivatives, which consists essentially in heating the chromone with an aqueous solution of an inorganic halogen acid at a temperature within the range from 70 to 150° C. at which the reaction proceeds.

2,666,767

CHLORMETHYLATION OF VAT DYES OF THE PYRANTHRONE, ANTHANTHRONE, AND DIBENZPYRENEQUINONE SERIES

David I. Randall and Tellis A. Martin, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 1, 1950, Serial No. 198,744

6 Claims. (Cl. 260—359)

1. Vat dyes and vat dye intermediates of the

class consisting of chloromethyl derivatives of pyranthrone, anthanthrone, and dibenzpyrenequinone.

2,666,768

PURIFICATION OF 2,2'-DIMETHYL-1,1'-DIANTHRAQUINONYL

Lynne H. Ulich, Woodstown, N. J., and William R. Waldron, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 18, 1952, Serial No. 294,276

3 Claims. (Cl. 260—367)

1. The process of purifying 2,2'-dimethyl-1,1'-dianthraquinonyl contaminated with other organic compounds and cuprous chloride, which comprises dissolving one part of the crude 2,2'-dimethyl-1,1'-dianthraquinonyl in a solution containing an amount of sulfuric acid equal to about 4 to 6 parts of 95% to 99% sulfuric acid and 1 part of nitrobenzene, diluting the solution with water until the sulfuric acid strength is between about 81% and 83%, adjusting the temperature to about 105° to 110° C., filtering off the precipitate so formed, washing, and recovering the pure 2,2'-dimethyl-1,1'-dianthraquinonyl.

2,666,769

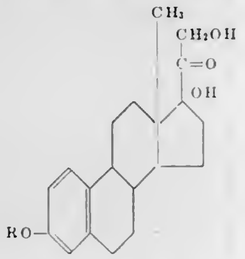
17-GLYCOLYL-ESTRADIOLS

Frank B. Colton, Chicago, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application September 27, 1952, Serial No. 311,945

3 Claims. (Cl. 260—397.4)

1. A compound of the structural formula



wherein R is a member of the class consisting of hydrogen and lower alkyl radicals.

2,666,770

ALKALINE CLEAVAGE OF PSEUDOSAPOGENIN OXIDATION PRODUCTS

Monroe E. Wall, Oreland, Pa., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application February 20, 1953, Serial No. 338,172

7 Claims. (Cl. 260—397.4)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a process for making a Δ^{16}-pregnenolone from a steroidal sapogenin, the steps comprising cleaving an oxidized pseudosapogenin by the action of alkali in a solvent selected from the group consisting of aliphatic tertiary alcohols having not more than six carbon atoms, pyridine and lower alkylypyridines.

2,666,771

CATALYZING ORGANIC ISOMERIZATION REACTIONS WITH ACTIVE MAGNESIA

Albert C. Zettlemoyer and William C. Walker, Bethlehem, Pa., assignors to Food Machinery and Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 9, 1948, Serial No. 64,432

3 Claims. (Cl. 260—405.6)

1. In the process of isomerizing an unsaturated carbon compound containing at least one carbon-to-carbon double bond, the improvement comprising heating the compound in the presence of a catalyst comprising active magnesia having an iodine value of at least 30, at a temperature and for a time sufficient to effect substantial isomerization of the compound and consequent relocation of the double bond.

2,666,772

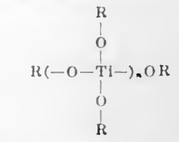
POLYMERIC TITANIUM ESTER ANHYDRIDES

Thomas Boyd, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

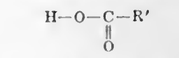
No Drawing. Application January 27, 1951, Serial No. 208,240

3 Claims. (Cl. 260—414)

1. A process which comprises reacting, under anhydrous conditions, a straight chain condensation polymer of an organic ester of orthotitanic acid having the formula:



wherein the OR radicals are ester groups which are members of the class consisting of alkoxy, aryloxy and arylalkoxy groups and n is an integer greater than 1, with a carboxylic acid having the formula:



wherein R' is a radical taken from the group consisting of alkyl, alkenyl, aryl and aralkyl radicals, followed by removal of by-products of the reaction by distillation at elevated temperatures and sub-atmospheric pressures.

2,666,773

TREATMENT OF FATTY OILS

Arthur W. Hixson, Leonia, N. J., and Ralph Miller, New York, N. Y., assignors, by mesne assignments, to The Chemical Foundation, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application October 13, 1944, Serial No 558,612

8 Claims. (Cl. 260—428.5)

5. The process of decolorizing and de-ashing naturally occurring unbodied crude fatty oils containing a mixture of triglycerides and naturally occurring fat-soluble color bodies which mixture is soluble in liquid propane at atmospheric temperature which comprises, contacting the oil with a liquefied, normally gaseous hydrocarbon at an elevated temperature; the ratio of liquefied hydrocarbon to oil and the contacting temperature being selected to form two liquid phases differing in density, such contacting temperature being but slightly above the highest temperature

at which the crude oil and liquefied hydrocarbon are completely miscible at the selected ratio of liquefied hydrocarbon to oil, maintaining said contacting temperature at the selected ratio of liquefied hydrocarbon to oil so that the less dense phase so formed and maintained contains not less than 95% of the triglycerides of the crude fatty oil and the major portion of the liquefied hydrocarbon and the more dense phase so formed and maintained contains not more than 5% of the triglycerides and the remainder of the hydrocarbon and substantially all of the color bodies and a preponderant amount of the ash-forming constituents and separating the more dense phase from the less dense phase.

2,666,774

POLYHYDROXY-ETHER ADDITION COMPOUNDS WITH METAL SALTS

Alexander Grenall, Yorba Linda, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application April 25, 1952, Serial No. 284,453

6 Claims. (Cl. 260—429)

5. A solid, non-hygroscopic addition compound of (1) a lower polymer of a lower alkylene glycol and (2) a hygroscopic salt of a metal selected from Groups II-A and II-B of the Periodic Table.

2,666,775

PREPARATION OF ORGANOSILANES BY REACTION OF SILICON WITH ORGANIC HALIDES

Siegfried Nitzsche, Burghausen, Germany, assignor, by mesne assignments, to Wacker-Chemie G. m. b. H., Munich, Germany

No Drawing. Application January 23, 1950, Serial No. 140,157

3 Claims. (Cl. 260—448.2)

1. The method of preparing alkylchlorosilanes comprising effecting reaction at an elevated temperature between an alkyl chloride and the silicon component of an alloy of silicon and copper in the presence of a preformed copper chloride.

2,666,776

PRODUCTION OF ORGANIC SILICON COMPOUNDS

Siegfried Nitzsche, Burghausen, Upper Bavaria, Germany, assignor, by mesne assignments, to Wacker-Chemie G. m. b. H., Munich, Germany

No Drawing. Application April 19, 1950, Serial No. 156,947

Claims priority, application Germany May 5, 1949

7 Claims. (Cl. 260—448.2)

1. The process for producing organohalogenosilanes which comprises reacting a material selected from the group consisting of aryl and alkyl halides in vapor phase with an alloy consisting essentially of silicon, copper and a metal selected from the group consisting of iron, cobalt, and nickel, in the presence of a copper salt.

2,666,777

PROPYL p-NITROPHENYL THIONOBENZENEPHOSPHONATES

Arthur G. Jelinek, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 8, 1950, Serial No. 148,499

3 Claims. (Cl. 260—461)

1. A propyl para-nitrophenyl thionobenzenephosphonate.

2,666,778

METHOD FOR THE SYNTHESIS OF ORGANIC PHOSPHATES

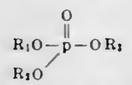
George M. Steinberg, Baltimore, Md., assignor to the United States of America as represented by the Secretary of the Army

No Drawing. Application May 10, 1950, Serial No. 161,273

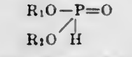
4 Claims. (Cl. 260—461)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A method of forming an organic phosphate of the formula



wherein R_1, R_2 and R_3 are open chain hydrocarbon radicals which comprises reacting an organic phosphite of the formula



with an alcohol of the formula R_3OH in the presence of a minimum of approximately molecular equivalents of carbon tetrachloride and a tertiary amine from the group consisting of tripropyl amine, triethyl amine and trimethyl amine where said equivalents are equal to the stoichiometric quantity of the phosphite.

2,666,779

PRODUCTION OF PHOSPHORUS ESTERS FROM HYDROPEROXIDE

Max Marin Wirth and Wilfred John Oldham, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation

No Drawing. Application April 14, 1951, Serial No. 221,116

21 Claims. (Cl. 260—461)

1. A process for the production of an organic oxyphosphoryl dihalide which comprises reacting an organic hydroperoxide with a phosphorus trihalide.

2,666,780

HYDROCYANATION OF OLEFINIC COMPOUNDS

Paul Arthur, Jr. and Burt Carlton Pratt, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 7, 1950, Serial No. 137,481

10 Claims. (Cl. 260—465.3)

1. Process for the preparation of a pentenenitrile wherein butadiene is brought into contact with hydrogen cyanide at a temperature of at least 50° C. and in the presence of cobalt carbonyl, $Co_2(CO)_8$.

2,666,781

USE OF METHYLAL TO PREVENT EMULSIONS IN ESTERS DURING THE AQUEOUS WASH

Ian A. M. Ford, Quinton, Birmingham, England, assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application January 30, 1952, Serial No. 269,107

Claims priority, application Great Britain February 23, 1951

6 Claims. (Cl. 260—468)

1. In a process for the preparation of organic esters of reduced acidity which comprises

esterifying aliphatic alcohols with carboxylic acids, the improvement which comprises washing the resultant crude ester with an aqueous alkali in the presence of methylal, further washing the ester at least once with water, and separating the ester from any residual methylal.

2,666,782

METHOD FOR PREPARING ALKYL ESTERS OF ACRYLIC ACIDS

Charles E. Brockway, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application August 11, 1950, Serial No. 178,997

5 Claims. (Cl. 260—486)

1. The method of preparing an alkyl acrylate in which the alkyl radical contains from 1 to 8 carbon atoms, which comprises first preparing an intermediate reaction product in the presence of a polymerization inhibitor by admixing acrylonitrile with a mineral oxyacid having a concentration of at least 85% said oxyacid being present in such quantities that the mixture contains from 1.5 to 10 moles of oxyacid for each mole of acrylonitrile, heating said intermediate reaction product to a temperature of 100° C. to 250° C., and then slowly and continuously adding to said intermediate reaction product over a substantial time interval not greater than about an hour from 3 to 5 moles of a C_1 to C_8 alkanol per mole of acrylonitrile and from 0.5 to 4.0 moles of water per mole of said alkanol, and continuously evaporating, condensing and collecting the alkyl acrylate as the latter forms during the alkanol addition.

2,666,783

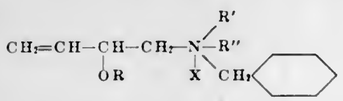
QUATERNARY BENZYLCHLORIDE SALTS OF 3-HYDROXY 4-DISUBSTITUTED AMINO-BUTENE-1

Marion R. Lytton, West Chester, Pa., assignor, by mesne assignments, to The Chemstrand Corporation, Decatur, Ala., a corporation of Delaware

No Drawing. Application March 13, 1950, Serial No. 149,438

6 Claims. (Cl. 260—490)

1. A quaternary salt having the formula:



wherein R is a substituent taken from the group consisting of hydrogen and saturated aliphatic acid radicals containing from 1 to 12 carbons, R′ and R″ are substituents taken from the group consisting of aryl radicals containing 6 to 10 carbons, aralkyl radicals containing up to 10 carbons, and alkyl radicals containing 1 to 12 carbons which may be joined through an atom selected from the group consisting of carbon, nitrogen, and oxygen atoms to form a saturated cyclic radical containing up to 6 atoms in the ring, and X is an anion.

2,666,784

NONHYGROSCOPIC CHOLINE SALTS

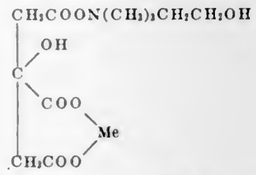
Heinrich Hopff and Hermann Spaenig, Ludwigshafen (Rhine), Germany, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany

No Drawing. Application January 31, 1952, Serial No. 269,342

Claims priority, application Germany February 1, 1951

2 Claims. (Cl. 260—501)

2. A double salt of monocholine citrate of the formula



wherein Me is an alkaline earth metal with an atomic weight from 24.3 to 40.1.

2,666,785

PRODUCTION OF SULFOBENZOIC ACID AND ITS SALTS

Hans Feichtinger, Duisburg-Beeck, and Helmut Kolling and Siegfried Puschhof, Duisburg-Hamborn, Germany, assignors to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany, a German corporation

Application June 3, 1952, Serial No. 291,468

Claims priority, application Germany June 9, 1951

4 Claims. (Cl. 260—507)

1. Process for the preparation of substituted carboxylic acid compounds which comprises contacting at an elevated temperature and pressure a mixture of p-sodium sulfonate benzyl chloride, p-sodium sulfonate benzal chloride and p-sodium sulfonate benzotrichloride with a member selected from the group consisting of aqueous ammonium polysulfide solution and ammonia solution with sulfur and recovering a substituted carboxylic acid compound.

2,666,786

TEREPHTHALIC ACID SYNTHESIS

Marshall Kulka and Richard H. F. Manske, Guelph, Ontario, Canada, assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application April 24, 1952, Serial No. 284,199

8 Claims. (Cl. 260—523)

1. The method of converting p-xylylene dichloride to terephthalic acid which comprises refluxing a mixture of the p-xylylene dichloride, nitric acid having a concentration of from 70 to 100%, and a saturated aliphatic monocarboxylic acid having from two to six carbon atoms per molecule, said last-named acid serving to hold the reaction intermediates in solution but causing precipitation of the terephthalic acid as formed.

2,666,787

PRODUCTION OF SULFONYL-ISOCYANATES

Hans Krzikalla, Heidelberg, Germany, assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany

No Drawing. Application August 3, 1950, Serial No. 177,559

Claims priority, application Germany August 20, 1949

1 Claim. (Cl. 260—545)

A process for the production of para-toluene sulfonyl isocyanate which comprises reacting phosgene at temperatures between 160° C. and 250° C. in the presence of an inert solvent with para-toluene sulfonamide.

2,666,788

PRODUCTION OF ETHYLENE SULFARYLAMIDES

Friedrich Ebel, Mannheim-Feudenheim, Germany, assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen am Rhine, Germany

No Drawing. Application March 10, 1951, Serial No. 215,008

Claims priority, application Germany March 15, 1950

4 Claims. (Cl. 260—556)

1. A process for the production of ethylene sulfanilide which consists in milling at ordinary temperature a mixture of carbyl sulfate and at least two equivalents of aniline in the presence of an inert diluent, treating the reaction mixture with an excess of an aqueous caustic alkali solution and acidifying the aqueous alkaline solution so obtained.

2,666,789

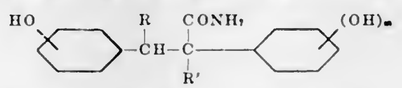
α,β - (POLYHYDROXYARYL) - ALKANAMIDES AND METHODS FOR THEIR PRODUCTION

Kurt Rorig, Chicago, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application May 29, 1951, Serial No. 228,999

13 Claims. (Cl. 260—559)

1. The amides of the structural formula



wherein R represents a lower alkyl group, R′ represents a member of the class consisting of hydrogen and lower alkyl groups, and m is a positive integer less than 3.

2,666,790

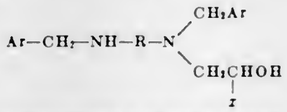
DIBENZYL DERIVATIVES OF HYDROXY ALKYL SUBSTITUTED ALIPHATIC DIAMINES

William W. Williams, Easton, Pa., and Albert F. Strobel, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 19, 1951, Serial No. 237,668

5 Claims. (Cl. 260—570.9)

1. Compounds having the following general formula:



wherein Ar represents a radical selected from the group consisting of phenyl and lower alkyl substituted phenyl, R represents an ethylene radical, and x is selected from the group consisting of hydrogen and methyl.

2,666,791

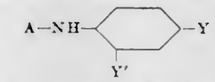
N-SUBSTITUTED AMINOPHENOLS AND AMINOPHENYL ETHERS

Viktor Weinmayr, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

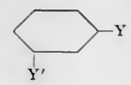
No Drawing. Application April 20, 1951, Serial No. 222,158

15 Claims. (Cl. 260—571)

1. The process of preparing aminophenols and aminophenyl ethers having the formula:



in which Y is a member of the group consisting of hydroxy and lower alkoxy radicals, Y′ is a member of the group consisting of hydrogen, hydroxy, lower alkyl and lower alkoxy radicals and A is a member of the group consisting of lower alkyl, lower alkylphenyl, lower alkoxyphenyl and biphenyl radicals, which comprises hydrogenating a mixture of a nitro compound having the formula $A—NO_2$, in which A has the significance above stated, and an aromatic compound having the formula:



in which Y and Y′ have the significance above stated, in the presence of a hydrogenation catalyst from the group consisting of palladium and platinum and an acid condensing agent from the group consisting of hydrofluoric, phosphoric, formic and oxalic acids.

2,666,792

PREPARATION OF KETONE-DIARYLAMINE CONDENSATES

Ivan Mankowich, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application July 3, 1951, Serial No. 235,104

4 Claims. (Cl. 260—576)

1. In a method of preparing a composite product of condensation of an aliphatic ketone and a diarylamine, the improvement which consists in adding to the reaction mix, a chemical promoter which is an acyl halide selected from the group consisting of acetyl chloride, acetyl bromide, butyryl iodide, caproyl chloride, valeryl chloride, stearoyl chloride, benzoyl chloride, benzoyl bromide, and naphthoyl chloride, and heating the mix in the presence of said promoter

---

2,666,793

PREPARATION OF KETONE-DIARYLAMINE CONDENSATES

Ivan Mankowich, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application July 3, 1951, Serial No. 235,105

6 Claims. (Cl. 260—576)

1. In a method of preparing a composite product of condensation of an aliphatic ketone and

a diarylamine, the improvement which consists in adding to the reaction mix, a chemical promoter selected from the class consisting of o-chloro phenol, m-chloro phenol, p-chloro phenol, o-bromo phenol, m-bromo phenol, p-bromo phenol, o-iodo phenol, m-iodo phenol, p-iodo phenol, o-bromo aniline, m-bromo aniline, p-bromo aniline, o-bromo-N-methyl aniline, m-bromo-N-methyl aniline, p-bromo-N-methyl aniline, o-bromo N,N-dimethyl aniline, m-bromo N,N-dimethyl aniline, p-bromo N,N-dimethyl aniline, m-bromo o-methoxy aniline, and m-iodo o-ethoxy aniline, and heating the mix in the presence of said promoter.

2,666,794

DESULFURIZATION OF HYDROCARBONS BY EXTRACTION WITH PHENYLACETONITRILE

Norwood K. Talbert, Yorklyn, Del., assignor to Phillips Petroleum Company, a corporation of Delaware

Application June 8, 1951, Serial No. 230,527
16 Claims. (Cl. 260—608)

1. The removal of a sulfur compound from a hydrocarbon containing it which comprises the step of contacting said hydrocarbon with phenylacetonitrile.

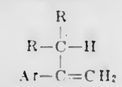
2,666,795

METHOD FOR THE PREPARATION OF UNSATURATED PRIMARY AROMATIC ALCOHOLS

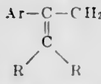
Thomas R. Steadman, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application June 1, 1950, Serial No. 165,575
9 Claims. (Cl. 260—618)

9. The method which comprises reacting a member of the class consisting of formaldehyde and formaldehyde yielding substances with a compound of the formula



wherein Ar is an aromatic radical composed of a single ring structure and in which all the hydrogen atoms are attached to carbon atoms, and each R is selected from the class consisting of hydrogen and lower alkyl radicals, at a temperature of from about 80° C. to about 250° C., thereby to obtain a compound of the formula



wherein Ar and R have the significance given above.

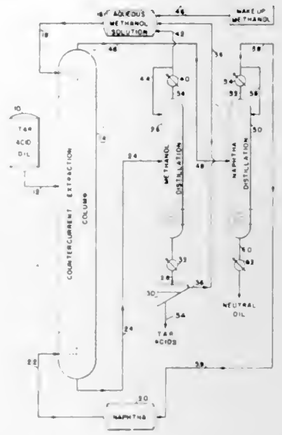
2,666,796

REFINING OF TAR ACID OIL

Everett Gorin and Martin B. Neuworth, Pittsburgh, Pa., assignors to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application September 12, 1950, Serial No. 184,474
13 Claims. (Cl. 260—627)

1. A process for separating tar acids from a tar acid oil fraction which comprises the steps of feeding said tar acid oil to a vertical extraction zone at a point located between the ends thereof, feeding an aqueous methanol solution containing 55 to 75 weight per cent methanol and the balance water to the top of said extraction zone, feeding a second solvent consisting of a paraffinic naphtha fraction boiling within the



range of 60° to 130° C. and having a density of less than 0.8 to the bottom of said extraction zone, passing said aqueous methanol solution and said naphtha fraction through said vertical extraction zone in countercurrent relation, and recovering aqueous methanol extract containing tar acids from the bottom of said vertical extraction zone.

2,666,797

FLUORINATED ALCOHOLS AND ACETATE ESTERS

Donald R. Husted, St. Paul, and Arthur H. Ahlbrecht, White Bear Township, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application May 26, 1950, Serial No. 164,611
6 Claims. (Cl. 260—633)

1. As new compounds, the 1,1-dihydroperfluoroalkyl alcohols, having the formula:

$$C_nF_{2n+1}CH_2OH$$

where n has a value of 3 to 12, and the acetate esters thereof.

2,666,798

OLEFIN ISOMERIZATION

Francis E. Condon, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application May 5, 1950, Serial No. 160,383
7 Claims. (Cl. 260—683.2)

1. A process for shifting a double bond of an isomerizable mono-olefin, comprising contacting such an olefin with from 1 to 15 per cent of its weight of elemental iodine at a temperature within the limits of 125 and 250° F. under a pressure sufficient to maintain the resulting admixture in liquid phase, for a period in the range of from 1 to 24 hours.

ELECTRICAL

2,666,799

TEMPERATURE-SENSING METHOD AND UNIT

Imre J. Barsy, Lancaster Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application September 13, 1951, Serial No. 246,451
5 Claims. (Cl. 136—4)



1. A thermo-responsive device comprising a disk of heat-conducting metal having an emissivity substantially less than 1, said metal disk having a flat surface for contact with a heated surface the temperature of which is to be sensed and an opposite flat surface constituting a heat-radiating surface subject to radiation losses, a substantially stable surface layer on said heat-radiating surface of said disk having an emissivity of about 1, and a thermo-responsive element attached to said disk and responsive to the temperature thereof.

2,666,800

METHOD AND DEVICE FOR INTERCONNECTING BATTERY CELLS

Dagfin S. Hoynes, Silver Spring, Md.

Application August 8, 1952, Serial No. 303,453
5 Claims. (Cl. 136—110)
(Granted under Title 35, U. S. Code (1952), sec. 266)



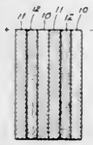
1. In a device of the character described, means for electrically and mechanically joining together a tandem or longitudinally stacked pair of dry cells each having case and cap terminals comprising a substantially cylindrical metallic member having substantially the same diameter at its upper and lower ends, means on the upper end of said member to encompass and firmly grip in electrical contact the case terminal of the upper of said pair of cells, and means on the lower end of said member engageable with the cap terminal of the lower of said pair of cells.

2,666,801

ELECTRIC BATTERY AND METHOD OF MAKING SAME

John A. Victoreen, Cleveland, Ohio

Application July 14, 1950, Serial No. 173,723
12 Claims. (Cl. 136—111)



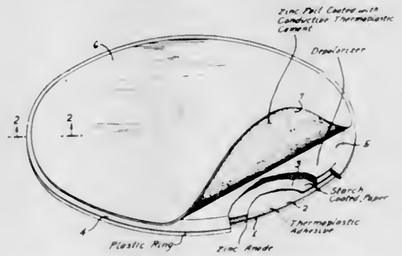
1. A battery of cells composed of a plurality of bi-polar discs between which are alternately disposed discs of semi-conducting electrolyte discs, the peripheries of the discs being cleaned to expose the body of the material, and the discs all being cemented together to provide a self supporting unit.

2,666,802

LAMELLATE FLAT CELL

William B. Woodring, Hamden, and William W. Eaton, Milford, Conn., assignors to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware

Application November 21, 1950, Serial No. 196,850
5 Claims. (Cl. 136—111)



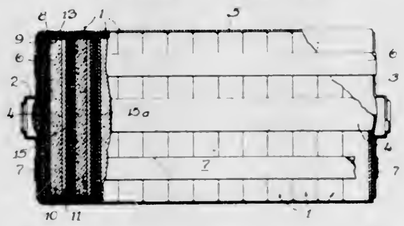
1. A dry cell comprising a thin, flat frame of dielectric material of substantially uniform thickness having a central opening, a separator carrying electrolyte on one side of the frame extending over the opening, an anode comprising a sheet of zinc foil of larger dimension than the separator, the anode having a coating of adhesive adjacent its edge to secure the separator to the anode and the anode to the frame, a sheet cathode having a conductive coating on its inner surface sealed to the other side of the frame, and a depolarizer within the frame.

2,666,803

BATTERY WITH CONDUCTIVE WAX INTERCELL CONNECTIONS

Sam Kurlandsky, Freeport, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware

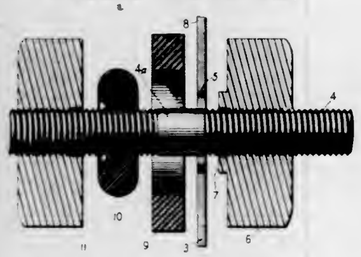
Application May 13, 1950, Serial No. 161,892
11 Claims. (Cl. 136—135)



1. In a battery comprising a plurality of juxtaposed cells, each cell having a pair of opposite terminals, the combination comprising terminals of two adjacent cells arranged contiguous and exposed to each other, and a coherent composition of finely divided silver in a waxy binder-lubricant directly contacting said contiguous terminals and electrically connecting said termi-

nals to each other, the amount of silver incorporated in said composition being such that the conductance of said composition is in excess of 65 reciprocal ohm-centimeters.

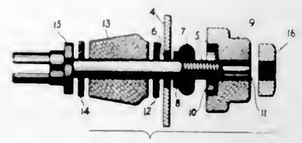
2,666,804
LEAD-IN TERMINAL
Bernard Gross, San Diego, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California
Application August 15, 1950, Serial No. 179,433
2 Claims. (Cl. 174—153)



1. A lead-in for conducting electric current from an apertured electric terminal on one side of a metal wall to an apertured electric terminal located on the opposite side of said wall, said wall having a circular opening therethrough and the sides of the wall for a substantial distance around the opening lying entirely in two parallel planes, said lead-in comprising: an electrical conductor having screw threaded ends passing through the apertures in said terminals and supporting said terminals, said conductor having a smooth cylindrical central portion, the diameter of which is substantially smaller than the diameter of said circular opening; a nut of rigid insulating material in threaded engagement with one end of said conductor, said nut having at one end thereof an integral projection whose peripheral surface engages the marginal wall of said circular opening, the length of said projection being substantially equal to the thickness of said metal wall; an annular retainer composed of rigid insulating material and having a cylindrical bore through which said conductor passes, the diameter of said bore being substantially greater than the diameter of the circular opening in said wall; a ring of resilient insulating material positioned within said bore and surrounding the smooth portion of said conductor, said ring being essentially of a torus shape having a cross sectional diameter greater than the thickness of said retainer; and a second nut in threaded engagement with the other end of said conductor, the end face of said second nut having a diameter substantially greater than the outside diameter of said ring, the tightening of said second nut causing said ring to be deformed and forced into sealing contact with the said end face of said second nut, the smooth portion of said conductor, the side of said wall and the end face of said projection.

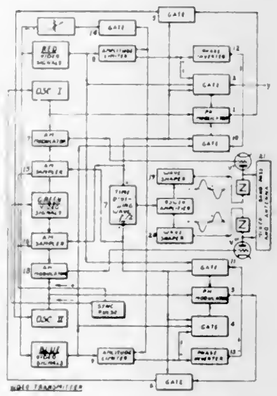
2,666,805
LEAD-IN TERMINAL
Paul F. Smith, Los Angeles, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California
Application February 3, 1951, Serial No. 209,219
5 Claims. (Cl. 174—153)

1. A lead-in terminal for conducting electricity through a wall provided with an aperture, comprising in combination: an electrical conductor having a diameter smaller than said aperture and passing therethrough; a retainer of rigid insulating material surrounding said conductor on one side of said wall and whose end adjacent said wall is provided with a substantially cylindrical shaped recess; a unitary ring of resilient insulating material surrounding said conductor and positioned within said recess, said ring, when uncompressed, being essentially of torus shape with a cross sectional diameter greater than the depth



of said recess and having a circular shoulder adapted to fit freely within the aperture in said wall and closely around said conductor; a member formed of insulating material surrounding said conductor on the other side of said wall and adapted to bear against said wall and said shoulder; and means for drawing the recessed end of said retainer against said wall and simultaneously causing said ring to be deformed into sealing contact with said wall, said conductor and also with said cylindrical and flat internal faces.

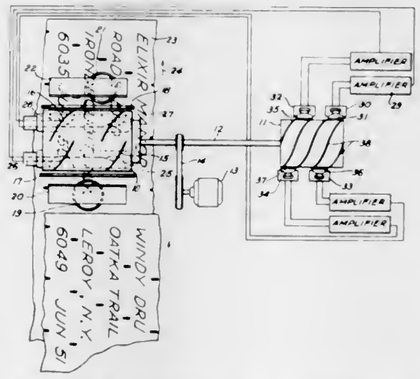
2,666,806
COLOR TELEVISION
Meguer V. Kalfaian, Los Angeles, Calif.
Application December 8, 1951, Serial No. 260,682
12 Claims. (Cl. 178—5.2)



1. In color television where each scanned image element is conveyed in separate primary-color components, the system of producing and transmitting video signals in values representing primary-color components of the image elements, which comprises: means for scanning color-pictures in the usual sense of horizontal and vertical directions in a frame period; including horizontal and vertical retracings, and means to derive therefrom simultaneous video signals representing first; second; and third primary-color components of the image elements, means for time dividing the video signals at a frequency rate equal to the highest number of image elements to be conveyed per second, means for producing a carrier wave and means therefor for time dividing it into individual envelopes at a frequency rate equal half that of the time-divided image elements, means for modulating the

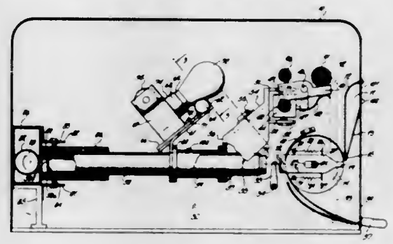
carrier amplitude step by step in every succeeding envelope by the first primary-color components of every second of the time-divided image elements, means for advancing the phase angle of the carrier wave step by step in every second envelope by the second primary-color components of every fourth of the time-divided image elements; lying in time positions ahead of last said every second image elements, means for retarding the phase angle of the carrier wave step by step in every other second envelope by the third primary-color components of every fourth of the time-divided image elements; lying in time positions behind of last said every second image elements, whereby first, to provide modulation of each carrier envelope by simultaneous sets of two succeeding image elements in different primary colors, and second, to provide scansion of elemental images in singular primary-colors substantially elementally-different from adjacent image elements in a picture frame so as to effect mutual-aid in visually forming chromatic-picture in a single scanned-frame by substantially all the image elements that would normally be available for monochrome-picture in a single frame, means for altering the scansion sequence of primary-color components of said elemental images during relatively slow frequency rate of successive frame periods, whereby said image elements are further resolved individually into their full three-color hues during successive frame periods, and means for transmitting the modulated carrier envelopes.

2,666,807
TAPE FACSIMILE APPARATUS
Clayton E. Hunt, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 17, 1949, Serial No. 116,360
4 Claims. (Cl. 178—6.6)



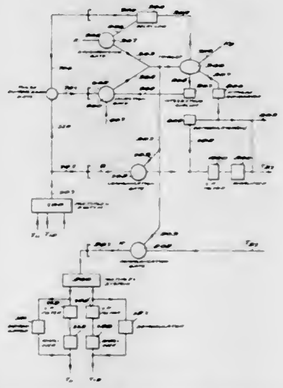
4. Facsimile apparatus for producing a dick strip of address labels from a series of discrete documents each bearing a printed address in four parallel lines comprising two spaced scanning stations, means for feeding the documents one at a time serially through said stations, means at the first station for scanning elemental areas of two non-adjacent lines of the printed address, means at the second station for scanning elemental areas of the other two lines of the printed address, a separate recording device associated with said scanning means and controlled by the scansion values of each line of the printed address, and means for advancing a record receiving tape past the recording devices, the location of the recording devices with respect to the area of the tape being correlated to the spacing of said stations so that a recorded address is collocated as on the document.

2,666,808
FACSIMILE MACHINE
Austin G. Cooley, New York, N. Y., assignor to Times Facsimile Corporation, New York, N. Y., a corporation of New York
Application July 18, 1950, Serial No. 174,379
17 Claims. (Cl. 178—13)



1. In combination, a rotatable blank carrier, motor means to rotate said carrier, a circuit for said motor, switch means for controlling said circuit, means cooperating with said carrier to fasten at least one end of the blank thereagainst, means including said motor for rotating said carrier to bring it into blank loading position, other means effective to stop said carrier at said blank loading position, and for simultaneously releasing said blank fastening means, a phasing control device for holding said blank fastening means in loading position, and means for operating said phasing device in response to a phasing signal to cause said blank fastening device to fasten the blank against the carrier and to release the carrier and blank for continuous scanning rotation.

2,666,809
ELECTRICAL SWITCHING SYSTEM
Thomas Harold Flowers, London, England
Application October 26, 1948, Serial No. 56,619
Claims priority, application Great Britain October 27, 1947
20 Claims. (Cl. 179—15)



19. An automatic telephone equipment of the type comprising a plurality of subscribers' lines each including transmit and receive trunks and each capable of calling and of being called by any one of the others, and in combination: a line finder switch comprising a first common signal

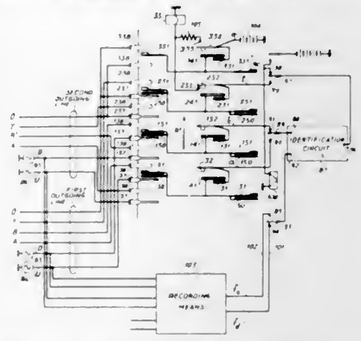
circuit and a time division multiplexing apparatus including a set of gating means interposed in circuit between said transmit trunks and said common signal circuit, said gating means each including first and second blocks, said first blocks being periodically removed in timed order by said multiplexing apparatus and said second blocks being removed respectively by energization of the associated transmit trunk, said line finder switch further including a second common signal circuit and a second set of gating means interposed respectively in circuit between said second common signal circuit and said receive trunks, said multiplexing apparatus opening the gating means associated within the receive trunks of respective subscribers lines synchronously with its removal of the first block from the gating means associated with the transmit trunk of such subscribers' lines; each line finder switch comprising a plurality of line finders; each line finder comprising a pulse injector, means for producing timing pulses put into operation by the reception of a pulse through said pulse injector, said pulse injector being unresponsive to signals from said first common signal circuit except when marked; line finder marker means for marking an unengaged line finder, said marker means rendering the pulse injector of the marked line finder receptive of a signal pulse from said first common signal circuit for initiating operation of said timing pulse producing means in synchrony with the time division channel of such signal pulse; said line finder switch comprising means for preventing a marked line finder from responding to a pulse on a time division channel in synchrony with which another line finder is operating, and each line finder comprising communication gates cyclically opened by the output of its timing pulse producing means and establishing synchronous communication with said first and second common signal circuits, respectively.

2,666,810
SWITCHING SYSTEM
Etienne G. Alizon, La Celle-Saint-Cloud, France
Application January 31, 1951, Serial No. 208,794
Claims priority, application France April 6, 1949
11 Claims. (Cl. 179—18)



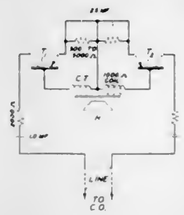
1. In automatic switching equipment employing capacitive testing in line finding, means to detect identity in frequency between an A. C. voltage of a particular frequency characteristic of a desired line and one of a succession of A. C. voltages of different frequencies scanned from a plurality of lines including said desired line, said means comprising a multigrid electron tube having two of its grids operated substantially at zero bias, means to apply to one of said grids in succession square waves having respectively as repetition rates the frequencies of the A. C. voltages scanned from the said plurality of lines, means to apply to the other of said grids a square wave voltage having as repetition rate the frequency of the voltage characteristic of the desired line, the voltage applied to said other grid being 180° out of phase with that of the same repetition rate applied to the first of said grids, and a parallel circuit connected between the plate of said multigrid tube and the source of plate voltage therefor, said circuit including a nonlinear resistor and a capacitor in series in one leg thereof and a resistor in the other leg thereof, said nonlinear resistor being disposed between said plate and capacitor and being poled to permit a rapid charging of the capacitor during conduction in said tube but to retard discharge of the capacitor when said tube is cut off.

2,666,811
SELECTOR SWITCH FOR TELEPHONIC OR OTHER COMMUTATION SYSTEMS
Etienne Alizon, La Celle Saint-Cloud, France
Application April 3, 1950, Serial No. 153,594
Claims priority, application France April 6, 1949
7 Claims. (Cl. 179—27.51)



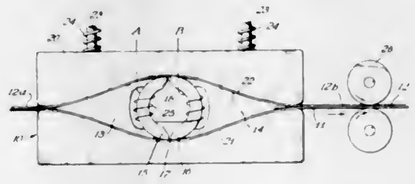
1. A selector comprising a frame, a bank of outgoing line stator contacts arranged in vertical and horizontal rows in a substantially semicylindrical inwardly facing array fixed in the frame, all stator contacts of each outgoing line being located in one vertical row and each of a plurality of outgoing lines connected to the selector having in one horizontal row of the bank a condenser plate-shaped contact, each of said lines having in each of two other horizontal rows a pin-shaped contact, two arcuate incoming line stator contacts supported coaxially with said array, two stator contact blades connected one to each of said incoming line stator contacts, an annular electromagnet supported coaxially with the array, a rotor driving shaft journaled in the frame coaxially with said array, rotor supporting means on said shaft, a rotor including an armature adapted to cooperate with said magnet, said rotor being freely engaged on said shaft, said rotor being shaped to rest on said rotor supporting means with clearance from said magnet, two ring-shaped incoming line rotor contacts mounted coaxially with the rotor in position to rotate adjacent the arcuate incoming line stator contacts when said rotor rests on said supporting means, a scanning brush connected to one of said incoming line rotor contacts and supported on the rotor in position to move past the condenser plate-shaped contacts of the bank when said rotor rests on said rotor supporting means, and an outgoing line rotor contact brush connected to each of said incoming line rotor contacts, said outgoing line rotor contact brushes being in a single azimuth of the rotor displaced from the azimuth of said scanning brush by the interval separating two or more vertical rows in the bank, each of said outgoing line rotor contact brushes being adapted upon energization of said magnet to engage galvanically a pin-shaped contact of one of said other horizontal rows in the bank, and each of said incoming line rotor contacts being adapted upon energization of said magnet to engage galvanically one of said contact blades.

2,666,812
TELEPHONE SIGNALING SYSTEM
Reymond J. Kircher, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 24, 1951, Serial No. 252,881
5 Claims. (Cl. 179—86)



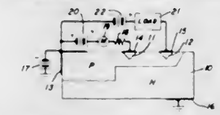
1. A station signaling system comprising a central office and a station to be signaled, a source of electrical energy at said office, a line connecting said station with said office, a semiconductor oscillator at said station whose frequency of oscillation is totally independent of the frequency of said electrical energy and is determined solely by the circuit parameters in said oscillator circuit, said oscillator being connected to said line, an electroacoustical transducer at said station connected with said oscillator, and means at said office for applying said electrical energy to said line whereby the semiconductor oscillator at said station is energized to operate said acoustical transducer.

2,666,813
MAGNETIC DUPLICATING METHOD AND MEANS
Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois
Application January 12, 1949, Serial No. 70,449
14 Claims. (Cl. 179—100.2)



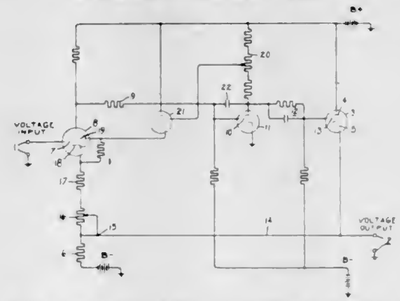
1. A magnetic transfer apparatus wherein a magnetic pattern is transferred from a master magnetic medium to a paramagnetic copy medium comprising, in combination, a master magnetic medium, a paramagnetic copy medium, means for producing a magnetic transfer field, said transfer field producing means being interposed between said master magnetic medium and said paramagnetic copy medium.

2,666,814
SEMICONDUCTOR TRANSLATING DEVICE
William Shockley, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 27, 1949, Serial No. 89,969
9 Claims. (Cl. 179—171)



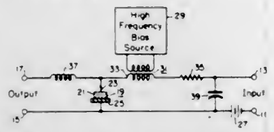
1. A signal translating device comprising a body of semiconductive material of one conductivity type having an integral layer on one face thereof, of the opposite conductivity type, said layer being of the order of 0.002 to 0.01 centimeter thick, a pair of spaced zones of said material and of said one conductivity type in the outer face portion only of said layer and terminating short of the inner face of said layer, and electrical connections to said zones and said layer.

2,666,815
CATHODE-FOLLOWER IMPEDANCE MATCHING DEVICE
William T. Chapin, Baldwinsville, N. Y., assignor to General Electric Company, a corporation of New York
Application March 1, 1950, Serial No. 147,052
2 Claims. (Cl. 179—171)



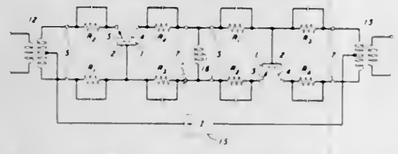
2. An arrangement for supplying a signal, variable over a range of intensities, from a high impedance source to a low impedance load comprising a first electron discharge device, a plurality of input circuits for said device, a cathode load impedance and an anode load impedance, means applying said signal to one of said input circuits, a source of unidirectional voltage, said load impedances coupling the electron discharge path of said device across said voltage source, a second electron discharge device comprising an input circuit, means coupling the electron discharge path of said second device through a portion of said cathode impedance across said voltage source, signal coupling means coupled between said anode load impedance and the input circuit of said second device, amplifier means including a portion of said signal coupling means and coupled between said anode load impedance and another input circuit of said first device for feeding back a signal to said other input circuit of said first device to compensate for reduction in effectiveness of said input signal due to electron discharge current flow through said cathode impedance to an extent to cause said current flow to vary in correspondence with said signal, and means for coupling said low impedance load between an intermediate point of said cathode impedance and an intermediate potential point of said source of unidirectional voltage.

2,666,816
SEMICONDUCTOR AMPLIFIER
Lloyd P. Hunter, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 20, 1950, Serial No. 191,300
2 Claims. (Cl. 179—171)



1. A semi-conductor amplifier comprising a semi-conductor diode, input terminals, output terminals, means for applying a direct current bias to said diode, means for applying an alternating current bias signal to said diode, of frequency such that a half-period is short compared to the life of an anomalous current carrier, and of frequency substantially higher than that of the signals to be amplified, and means isolating said high frequency bias from said input and output terminals.

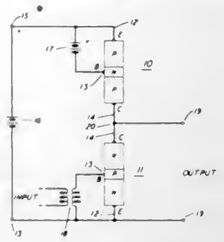
2,666,817
TRANSISTOR AMPLIFIER AND POWER SUPPLY THEREFOR
Gordon Raisbeck, Morristown, and Robert Lee Wallace, Jr., Plainfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 9, 1950, Serial No. 194,834
11 Claims. (Cl. 179—171)



1. An amplifier which comprises a transistor having a base electrode, an emitter, and a collector, input terminals connected to two of said electrodes, output terminals connected to one of said two electrodes and to the third electrode, a resistor connected in series between each of said terminals and the transistor electrode to which it is connected, a first inductance coil interconnecting said input terminals, a second inductance coil interconnecting said output terminals, a substantially steady bias current source having two terminals, one of said source terminals being connected directly to said first coil and the other of said source terminals being connected directly to said second coil, said several resistors being proportioned, in relation to the self-resistances of the transistor and to the current source resistance, to hold the total current of said source substantially constant and to supply a first desired fraction of said total current as a bias current to the emitter and a second desired fraction thereof as a bias current to the collector.

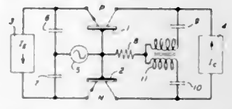
2,666,818
TRANSISTOR AMPLIFIER
William Shockley, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 13, 1951, Serial No. 246,428
8 Claims. (Cl. 179—171)

1. A signal translating device comprising a pair of transistors of opposite conductivity types, each transistor having base, emitter and collector connections, an output circuit connected between two of said connections of one transistor, an input circuit connected between one of said two connections and the third connection of said



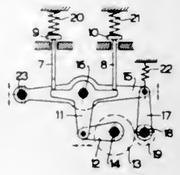
one transistor, a connection between one of said two connections and the like connection of the other transistor, and a biasing source connected between the other of said two connections and the like connection of said other transistor.

2,666,819
BALANCED AMPLIFIER EMPLOYING TRANSISTORS OF COMPLEMENTARY CHARACTERISTICS
Gordon Raisbeck, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 18, 1951, Serial No. 247,155
4 Claims. (Cl. 179—171)



1. Apparatus which comprises a pair of transistors each of which has a first terminal, a second terminal, and a third terminal, like numbered terminals of said transistors being alike in function, one of said transistors being characterized by voltage-current characteristics which are like those of the other transistor in shape but opposite in sign, the first terminals being directly connected together, means for applying a signal to the second terminals in parallel, and means for extracting a translated signal from the third terminals in parallel.

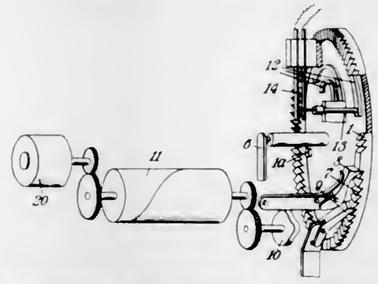
2,666,820
SYNCHRONOUS CONTACT DEVICE FOR ELECTRIC CONTACT CONVERTERS
Erich Rolf, Nurnberg, Germany, assignor to Siemens - Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Erlangen, Germany, a German corporation
Application December 3, 1951, Serial No. 259,607
6 Claims. (Cl. 200—30)



1. Contact apparatus for electric contact converters, comprising stationary contact means, a contact member reciprocable between closing and opening positions relative to said stationary

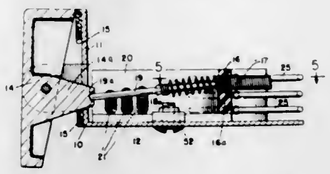
contact means, spring means engaging said member for biasing it to said closed position, a pusher element reciprocable toward and away from said contact member and being in engagement therewith along a portion of the reciprocating travel of said element to move said member between said positions, two revolvable eccentrics of sinusoidal movement and respectively different speeds of revolution, and mechanism means joined with said two eccentrics for superimposing their respective movements and being joined with said pusher element to impart resultant movement thereto.

2,666,821
CHECKING AND CONTROL ARRANGEMENT FOR FACSIMILE TELEGRAPH APPARATUS
Frank Herbert Cannon, Chatswood, New South Wales, Australia, and Alan Arthur Kirchel, Beckenham, England, assignors to Muirhead & Company Limited, Elmers End, Beckenham, England
Application February 1, 1952, Serial No. 269,502
Claims priority, application Great Britain February 2, 1951
4 Claims. (Cl. 200—33)



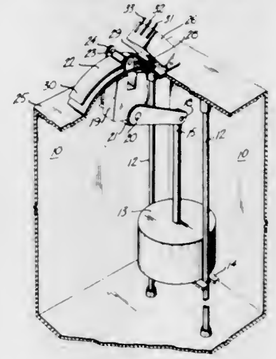
3. A checking and control arrangement for facsimile telegraph apparatus comprising a timing disc mounted in bearings, a stop, spring means for holding the disc in its normal position against the stop, means for driving the disc rotationally from its normal position, means for releasing the disc to be restored by said spring means to its normal position, and a damping ring held against the side of the disc by spring pressure for the purpose of eliminating bounce when the disc reaches its normal position against the stop.

2,666,822
STOP SWITCH
Lawrence Pelletier, North Riverside, and Walter J. Anderson, Elgin, Ill., and Howard Fener, Hempstead, N. Y., assignors to Central Commercial Industries, Inc., Cook County, Ill., a corporation of Delaware
Application October 15, 1952, Serial No. 314,848
3 Claims. (Cl. 200—67)



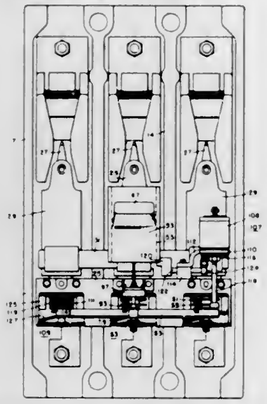
3. An electric switch comprising a frame having a manually actuable member which is tiltable about a horizontal axis, said member having a lug situated below the aforementioned horizontal axis, means of hard insulating material rigidly supported by said frame, an electrical conductor of resilient material supported by said insulating means at a point above the plane of said horizontal axis, a rigid rod of conductive material fulcrumed at one end and electrically connected to said conductor and having its opposite end seated in the recess of the aforementioned lug, said means of resilient material being formed and adapted to exert a yielding force against said rod tending to tilt the rod in one direction and to also tilt said manually actuable means to one of two possible conditions of adjustment, and a resilient contact device supported by said means of insulating material and disposed respectively to engage and disengage said electrical conductor in response to actuation of said manually actuable member, said contact device being flexible in a vertical plane so as to be flexed and to have rubbing engagement with said rod.

2,666,823
FLOAT SWITCH
Ted R. Wilson, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware
Application May 17, 1952, Serial No. 288,499
3 Claims. (Cl. 200—84)



3. A float actuated switch installation in a fluid chamber for the automatic control of electrical operated mechanisms that regulate the flow of fluids in a fluid system, comprising a float chamber, a float slidably retained within the chamber for reciprocal motion as the fluid level changes, a magnet rotatable in a vertical plane mounted within the chamber with its poles formed to complement the arcuate path defined by the poles themselves during oscillation, a connecting linkage between the reciprocal float and the rotatable magnet converting the reciprocal motion of the float to the rotary motion of the magnet, a nonmagnetic arcuate separator forming part of the fluid chamber immediately above the magnet to accommodate the rotatable poles, an arcuate armature mounted outside the float chamber on the separator closely spaced thereto and formed complementary to the curvature of both the separator and the path traversed by the magnetic poles, a switching means mounted on the float chamber, and electrical contacts on the switching means placed over one end of the arcuate armature within the deflecting arc of the armature whereby the movement of the said magnet as the float rises will cause a rotary motion of the armature resulting in the closing of the electrical contacts and the actuation of electrical operated mechanisms that regulate the flow of fluids in the system.

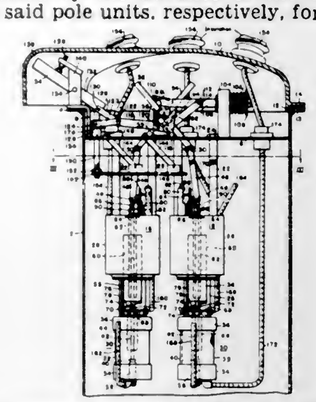
2,666,824
CIRCUIT BREAKER
Hiller D. Dorfman, Beaver, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 18, 1950, Serial No. 190,825
15 Claims. (Cl. 200—88)



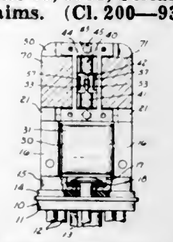
1. A ground current limiting circuit breaker for controlling an electrically operated device having an ungrounded frame comprising a plurality of sets of relatively movable main contacts, operating means therefor including means for manually opening and closing said sets of main contacts, overcurrent trip means responsive to overload currents traversing said sets of main contacts to effect automatic opening of said sets of main contacts, terminals on said breaker for connecting said breaker in a circuit connecting the frame of said electrically operated device to ground, one of said sets of said main contacts being connected in a circuit between said terminals, an electromagnetic trip device responsive to abnormal current flowing through said one set of contacts to effect opening of said sets of main contacts and opening of said circuit between said terminals, and thermally responsive means heated in response to said abnormal current flowing through said one set of contacts upon repeated closing of said sets of main contacts and operable when heated a predetermined amount to prevent further closing of said sets of main contacts and said circuit through said one set of contacts until said thermally responsive means has cooled.

2,666,825
PLURAL PHASE RECLOSING CIRCUIT BREAKER
James M. Wallace, East McKeesport, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 23, 1949, Serial No. 100,787
14 Claims. (Cl. 200—89)

1. A multi-pole automatic reclosing circuit breaker comprising, a plurality of pole units disposed in a common tank and each having separable contacts which are biased into engagement and electro-responsive means for separating the contacts so that the contacts of any pole unit may automatically open and close its circuit independently of the contacts of the other pole units, a single lock-out means having a common releasable means for maintaining it normally inactive but having elements including a single lockout spring to prevent closing of the contacts of all of the pole units when said lock-out means is activated, each of said pole units having counting means advanced by closely successive operations of its unit, said lock-out means having a part actuated by the advance of the counting means of said pole units, respectively, for releasing said releasable means and activating said lock-out means and thus preventing closing of the contacts of all pole units in response to a predetermined number of closely successive operations of any one of said pole units.



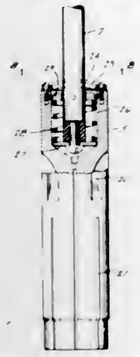
2,666,826
MAGNETIC RELAY WITH SPECIAL ARMATURE MOUNTING MEANS
Bertil S. Bengtsson, Hartford, Conn., assignor to The Hart Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application June 21, 1951, Serial No. 232,840
3 Claims. (Cl. 200—93)



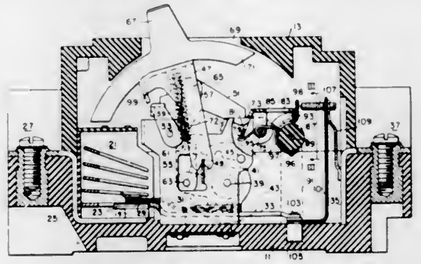
1. A polarized relay comprising an armature, a hinge engaging the armature at points on opposite edges thereof to mount said armature for swinging movement about a central axis extending through said points, a pair of core members disposed, respectively, at opposite sides of the hinge, each of said core members having spaced apart fingers projecting toward opposite faces of the armature adjacent the opposite edges thereof, fixed contacts situated in the space between the fingers mounted adjacent one edge of the armature, a contact on the armature cooperating with said fixed contacts, a pair of permanent magnets disposed opposite to opposite sides of the armature with like poles opposite each other located between and engaging the core members, and a coil winding on the core members.

2,666,827
CIRCUIT INTERRUPTER
Anthony van Ryan, South Milwaukee, Wis., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware
Application January 17, 1951, Serial No. 206,360
4 Claims. (Cl. 200—97)

1. A circuit interrupter comprising separable contacts, a magnetic plunger for separating said contacts, an energizing solenoid for said plunger, an oil cylinder into which said plunger is arranged to be drawn when said solenoid is energized on overload, said plunger having externally located slots forming oil flow means, said slots being directly closed on one side by the wall of said cylinder, and an outwardly opening valve for controlling said oil flow means by directly closing said slots on one direction of travel of said plunger.



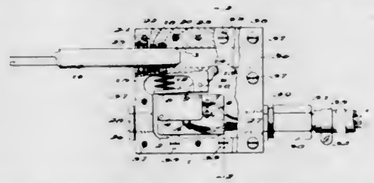
2,666,828
CIRCUIT BREAKER
Lloyd W. Dyer and Hiller D. Dorfman, Beaver, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 6, 1952, Serial No. 270,206
12 Claims. (Cl. 200—116)



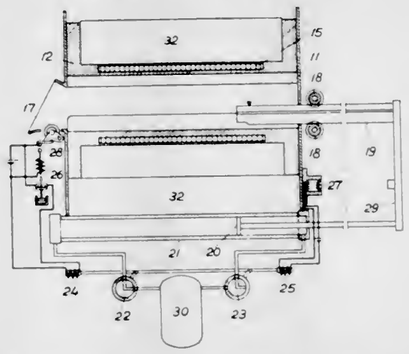
1. A circuit breaker having relatively movable contact means and operating means releasable to effect automatic opening of said contact means, a trip device comprising a trip member movable to release said operating means, a current responsive bimetal trip element heated in response to the current of the circuit for moving said trip member, an ambient temperature responsive bimetal element mounted on said movable trip member, and means on one of said bimetal elements cooperating with the other of said bimetal elements upon thermal bending of said current responsive bimetal element to move said trip member and effect release of said operating means.

2,666,829
WATERPROOF SWITCH ASSEMBLY
William C. Burkhard, Jr., Towson, and Nickolaus W. Magyar, Baltimore, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application January 12, 1950, Serial No. 138,126
4 Claims. (Cl. 200—168)

1. A waterproof switch assembly comprising a watertight housing having a recess formed therein, electrical switch means mounted within said recess and including depressible actuator means, said housing being provided with a generally cylindrical bore opening through one side of said housing and extending from the exterior of said housing generally alongside said recess in spaced relationship thereto and into communication with said recess adjacent the remote side thereof, a lever pivotally mounted within said recess and spring means normally biasing said lever so that one portion thereof engages and depresses said switch actuator means and a second portion thereof extends into the area of intersection of the bore and the recess, a generally cylindrical operating shaft adapted to be slidably inserted into said bore from the exterior of said housing, said shaft being movably carried within said bore and having its inner end formed as a cam adapted upon actuation of said shaft to engage said second follower portion of said lever to cause the lever to swing to a position releasing said actuator means, said bore being provided with a plurality of peripheral grooves adjacent its outer end, an O-ring seal being arranged in one of said grooves to sealably engage said operating shaft, and an oil-soaked felt-like packing inserted in another of said grooves displaced axially inwardly from said O-ring seal.



2,666,830
METHOD AND FURNACE FOR HEATING BARS TO BE FORGED BY MEANS OF EDDY CURRENTS
Ludwig Dreyfus, Vasteras, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application December 19, 1950, Serial No. 201,585
Claims priority, application Sweden December 21, 1949
10 Claims. (Cl. 219—3)



1. A method of heating bars in eddy current furnaces for being forged, consisting in first heating a portion only of a bar in said furnace by inducing eddy currents in said portion to a temperature substantially below forging temperature, then moving said bar to another position in said furnace, further heating said portion of the bar by inducing eddy currents in said por-

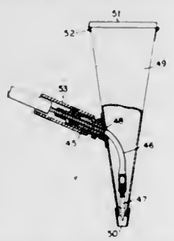
tion while it is retained in such second position to a substantially higher temperature and simultaneously with such further heating heating a second portion of the bar to a substantial temperature substantially below forging temperature.

2,666,831
METHOD OF PRODUCING TUBES FROM STRIP MATERIAL
Gerhard Seulen and Fritz Alf, Remscheid-Hasten, Germany, assignors to Deutsche Edelstahlwerke Aktiengesellschaft, Krefeld, Germany
Application October 5, 1951, Serial No. 249,978
Claims priority, application Germany November 2, 1950
5 Claims. (Cl. 219—6)



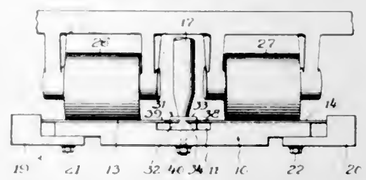
1. The method of producing a tube from strip material by progressively shaping the strip material to tube form and welding its edges to form a longitudinal seam by means of an inductor having heat conductor branches which extend from the edges of the unrolled strip to the welding position in proximity to and substantially following the changing aspect and course of the said edges.

2,666,832
COMBINED WELDING HEAD AND FLUX HOPPER FOR CONTINUOUS WELDING
George G. Landis, South Euclid, and Norman J. Hoenie, Cleveland Heights, Ohio, assignors to The Lincoln Electric Company, Cleveland, Ohio, a corporation of Ohio
Original application May 22, 1947, Serial No. 749,780, now Patent No. 2,536,294, dated January 2, 1951. Divided and this application October 22, 1949, Serial No. 123,046
3 Claims. (Cl. 219—8)



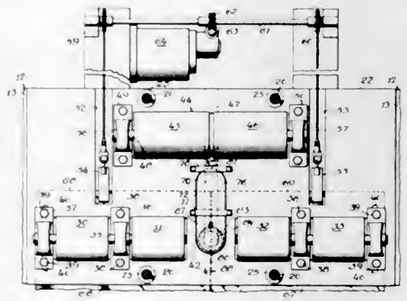
1. In quasi portable arc welding apparatus, wherein a metallic electrode in the form of a wire is fed continuously to the work, the combination of electrode feeding means, a flexible tube adapted to receive an electrode from said feeding means and guide the same to the work, a welding current lead, a portable welding head including a terminal fitting for said tube electrically connected with said lead and adapted to provide electrical contact with such electrode as it passes through said fitting, and a flux hopper carried by but electrically insulated from said fitting, said hopper having a flux discharge passage having a lower end, and said fitting being disposed in and terminating short of such end.

2,666,833
TANTALUM WELDING FIXTURE
Chester Mott, deceased, late of Evanston, Ill., by George A. Mott, executor, Evanston, Ill., assignor to Fansteel Metallurgical Corporation, a corporation of New York
Application June 24, 1952, Serial No. 295,306
2 Claims. (Cl. 219—8)



1. A fixture for use in butt welding tantalum, said fixture being of aluminum bronze and comprising top and bottom plates having flat opposed faces, a spacing portion between said plates for maintaining said opposed faces separated, said spacing portion providing transversely aligned slots extending from the front of the fixture to the back thereof, said slots extending to the sides of the fixture so that a sheet of metal may be inserted edgewise into each slot, said spacing portion tapering in width from the front of the fixture to the rear thereof, the angle of taper being about 1 degree so that two sheets may be disposed in said slots with the edges thereof guided by said spacing member at an angle of about 1 degree to each other.

2,666,834
WELDING MACHINE
Chester Mott, deceased, late of Evanston, Ill., by George A. Mott, executor, Evanston, Ill., assignor to Fansteel Metallurgical Corporation, a corporation of New York
Application June 24, 1952, Serial No. 295,307
13 Claims. (Cl. 219—8)



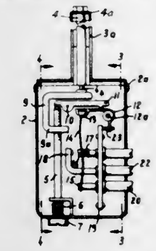
1. A machine for butt welding of metal sheets, said machine comprising a flat stationary plate, a floating plate resiliently supported above said stationary plate, the sheets to be welded lying between said two plates, rollers carried by said floating plate, said floating plate having cutouts through which roller portions may extend for bearing against the top surfaces of the sheets to be welded, the axes of said rollers being generally perpendicular to the line of butt welding, a welding means secured to said floating plate, said floating plate having a cutout at the weld region

for providing access of the welding means to the work, and means for guiding two metal sheets between the plates so that the edges to be butt welded pass under the welding means.

2,666,835
ELECTRIC RESISTANCE WELDING PROCESS
Albert J. Elleman, London, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application July 24, 1951, Serial No. 238,373
9 Claims. (Cl. 219—10)

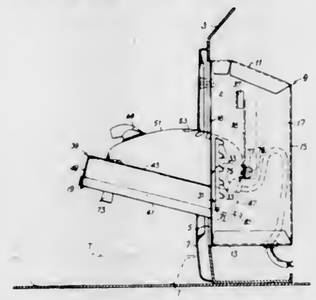
1. A process for the electric resistance welding of protectively precoated metal parts in which the coating is dry which comprises reducing the electrical resistance of the coating by incorporating in intimate admixture in the coating composition a non-oxidized magnetic metal powder, pressing the said coated metal parts together to provide a contact area and passing an electric current through the area of contact.

2,666,836
ELECTRIC CONTROLLER FOR HEATING ELEMENTS
Theodor Stiebel, Holzminden, Germany
Application September 5, 1950, Serial No. 183,160
9 Claims. (Cl. 219—20)



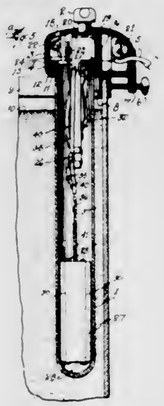
1. Electric controller for heating elements comprising a heating element, a line supplying current to the heating element, a thermally responsive device adjacent the heating element and comprising a hollow tube and a rod within the tube one end of which is affixed to an end of the tube and the other end of which extends beyond the other end of the tube at room temperature, the rod having a lower coefficient of expansion than the tube, a housing on which the said other end of the tube is affixed and into which the said other end of the rod extends, and a switching mechanism in the housing comprising an elbow of which one arm is affixed to the said other end of the rod, a pin spring biased against the housing in the other arm of the elbow, a system of levers against a first region of which the pin is adapted to press, a pair of terminals in the line, an S-shaped flat spring of electrically conductive material having one end fixed in one of the pair of terminals and its other end pressingly bearing against a second region of the pair of levers, the said second region being of non-conductive material, the other terminal of the pair engaging the spring at its midportion when the spring is in the preoperated position, the spring being adapted to snap into substantially its mirror-image shape on actuation to a predetermined amount in one direction by the system of levers as the rod on heating withdraws from the housing to press the pin against the first region of the system of levers, whereby the engagement between the said other terminal of the pair and the spring is severed.

2,666,837
FOOD CONDITIONER FOR COOKING RANGES
Almer H. Brodbeck, Webster Groves, Mo., assignor to Magic Chef, Inc., St. Louis, Mo., a corporation of New Jersey
Application November 19, 1952, Serial No. 321,407
16 Claims. (Cl. 219—39)



1. A food conditioner for a cooking range of the type having a substantially horizontal working surface and a back panel extending upward from the working surface, said back panel having an opening therein; a food conditioner unit comprising a fan, a motor for driving the fan, and means for heating air delivered by the fan; means mounting the unit for movement from a retracted position in which it closes the opening to an extended position projecting forward from the panel over the working surface to direct a flow of air downward toward the working surface and also for movement of the extended unit toward and away from the working surface; and means for releasably holding the extended unit in positions of different elevation with respect to the working surface.

2,666,838
THERMOSTATICALLY CONTROLLED ELECTRIC WATER HEATER
Edward Krah, Carl Krah, and Walter Rudy, Newark, N. J., assignors to Pyramid Aquariums, Inc., Newark, N. J., a corporation of New Jersey
Application July 29, 1953, Serial No. 370,993
5 Claims. (Cl. 219—41)



1. A thermostatically controlled electric immersion heater comprising a shallow receptacle adapted to be removably secured to the side of an aquarium at right angle thereto; a tube open at one end, suspended by its open end through a

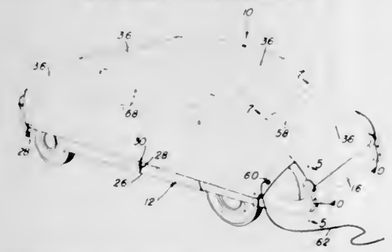
hole in the bottom of the receptacle; a concave cover for the receptacle; a capacitor and a lamp in the cover with the lamp opposite an opening in the cover; an elongated switch mounting friction fitted at its upper end within a boss on the inside of the cover and projecting downward within the tube; a flat ring interposed between the periphery of the open end of the tube and the end of the said boss; a sealing washer surrounding the tube where it passes through the receptacle; a temperature responsive switch mounted on the switch mounting; a finger piece rotatable in the upper end of the switch mounting and projecting outward through the cover and adapted to adjust the spacing between the contact points of the temperature responsive switch; an electric resistance heater; means for removably securing the electric resistance heater in rigid suspension from the switch mounting; and an electrical circuit including the electric resistance heater, switch, lamp, and capacitor.

2,666,839
ELECTRIC HEATING PAD
Erich W. Boetel, Hamburg, Germany
Application April 11, 1951, Serial No. 220,421
1 Claim. (Cl. 219—46)



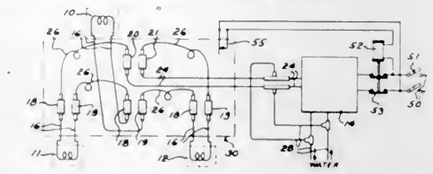
An electric heating pad, comprising upper and lower smooth sheets of thermoplastic synthetic material in sealed connection at their margins, a heating coil interiorly of said sheets, fireproof stuffing interiorly of the sheets embracing said heating coil, a third sheet of thermoplastic material in sealed contact with the margins of the other two sheets and connected with one of the two other sheets by welded seams running substantially perpendicular to one another and interrupted by circular welded seams, an air cushion formed by the enclosure of the upper sheet and third sheet and divided by said seams into a plurality of small air chambers, said chambers being in open connection with one another, and a valve-controlled conduit extending into the enclosure and adapted to fill and empty said air chambers, said plurality of air chambers inclusive of the third sheet forming one cover and one of said smooth sheets forming the opposite cover of the heating pad.

2,666,840
HEATED VEHICLE COVER
Ernest J. Poirier, Alhambra, Calif., assignor of ten per cent to John I. Hill, Alhambra, Calif.
Application June 8, 1951, Serial No. 230,453
4 Claims. (Cl. 219—46)



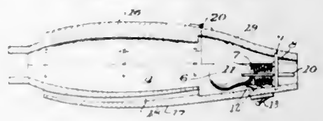
1. A vehicle cover comprising a sheet of pliable material having a longitudinal central strip adapted to cover a vehicle top surface from its rear to its front bumper and including side panels having one edge of each secured to an edge of the central strip intermediate its ends, transverse flexible stays embedded in the central strip and extending across substantially the entire width thereof, means for securing the central strip to the front and rear bumpers, resiliently adjustable means securing the side panels to the sides of a vehicle at spaced points therealong, electrical resistance heaters embedded in said cover, means for supplying current to said heaters.

2,666,841
INDUCTION HEATING APPARATUS
Frank Laver, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 9, 1951, Serial No. 214,761
8 Claims. (Cl. 219—47)



8. An induction heating apparatus comprising a source of high frequency current, a plurality of hollow heating coils each having a pair of hollow leads extending therefrom, a pair of hollow stationary contact members connected to the pair of leads from each of said coils, a plurality of movable hollow contact members having hollow leads connectible to a source of high frequency current, said movable contact members being movable into engagement with the stationary contact members to selectively connect said coils to said source of current, a plurality of hollow insulating members connected to said contact members, and cooperating with said hollow leads and coils to form a single continuous conduit means establishing communication in series with all of said coils for the passage of a coolant therethrough and for maintaining said coils in insulated relation one to another, and means for directing coolant into said conduit means.

2,666,842
ILLUMINATED ELECTRIC RAZOR FRAME
Hyman D. Bowman, Raleigh, N. C.
Application May 19, 1950, Serial No. 162,952
1 Claim. (Cl. 240—2)



An electric razor frame of the class described comprising, in combination a pair of side walls secured together to combinedly provide a receptacle to receive the razor mechanism in the outer end portion of said receptacle, an illuminating element removably mounted in the inner end portion of said receptacle, said side walls being constructed of a material capable of conducting the rays of light therethrough in the longitudinal direction from said element toward the outer ends of said side walls, one of said side walls being provided with a hinged section affording access to said element in said receptacle, and a switch mechanism carried by one of said side walls operable for controlling the operation of said element each of said side walls formed with an exposed flat upper end ledge disposed within said receptacle adjacent to said element for receiving the light from the latter, and each of said side walls formed with an exposed flat lower end ledge disposed at the outer side of respective side walls adjacent to but spaced from the lower end of the latter for dispersing the light from said element.

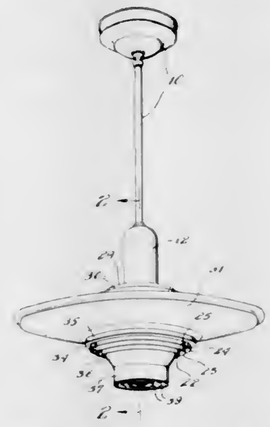
2,666,843
ILLUMINATED TWEEZERS
Samuel George Zuckerman, New York, N. Y., assignor of one-half to Cedric H. Marks, New York, N. Y.
Application August 4, 1950, Serial No. 177,603
1 Claim. (Cl. 240—6.46)



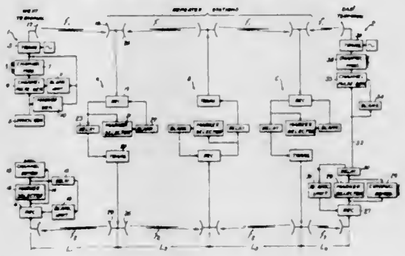
In an illuminated tool of the class having a flashlight structure with a lamp housing and a support therefor, the housing having an upper portion tapering generally upwardly and inwardly, a pincer tool member mounted on said structure and having two arms on opposite sides of said housing, said arms having lower and intermediate portions flanking said lamp housing and upper coacting jaw portions extending thereabove and terminating in mutually engageable tips, said arms being shaped to follow generally the contour of the outer surface of the housing, said upper jaw portions converging towards each other and being normally yieldably maintained with their said uppermost tips in adjacent spaced relation, whereby there will be an unobstructed light passageway between said lamp housing and the space between said tips, a portion of each arm being normally spaced from the adjacent portion of the housing, said portions of the arms being engageable with the housing upon the operative application of opposite inward pressures on the said arms, said arms being so proportioned that when they are in operative engagement with the housing the said tips are in pressing engagement with each other.

2,666,844
LIGHTING FIXTURE
Morris B. Beck, Woodsburgh, N. Y., assignor to Products Designs Co., Fairhaven, N. J., a partnership
Application July 11, 1951, Serial No. 236,193
3 Claims. (Cl. 240—78)

1. A semi-indirect lighting fixture utilizing ceiling reflection; said fixture comprising an incandescent bulb having a hemispherical bowl provided with an upwardly light reflecting circumferential silvered band thereabout extending from a circular cut-off line approximately at the level of the filament to a circular cut-off line in the polar region of the hemisphere to leave that region transparent, whereby the light from said bulb has an upwardly directed component whose spread is approximately 180° and a downwardly directed component, a mounting for said bulb whereby it is supported with its base uppermost and its silvered bowl lowermost and in spaced relation to the ceiling, lamp shielding means comprising a bowl shielding member having its top and bottom portions contoured cylindrically and its intermediate section contoured spherically, the radius of curvature of the intermediate portion being greater than that of the hemispherical lower wall portion of the lamp to provide a space therebetween, the height of the top and intermediate portions of the shielding member corresponding approximately to that of the silvered zone of the lamp, and means for suspending said shielding member from said ceiling suspension means to locate said top and intermediate portions of said shielding member in spaced and laterally registered relation to the silvered zone of the lamp.



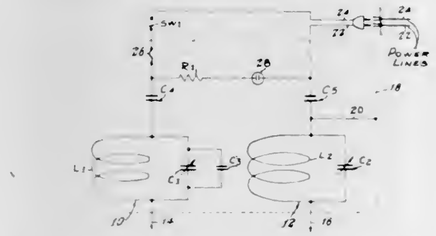
2,666,845
TWO-WAY COMMUNICATION SYSTEM
Roger B. Colton, Emile Labin, Georges A. Deschamps, New York, N. Y., assignors to Federal Telecommunication Laboratories, Incorporated, Nutley, N. J., a corporation of Delaware
Application November 28, 1951, Serial No. 258,584
22 Claims. (Cl. 250—15)



1. A two-way communication system comprising a first terminal station, a second terminal station and a two-way repeater station interposed between the two terminal stations, each said station having a transmitter and a receiver, means at each of said stations to control transmission and reception at said stations on a time division basis including three parts, one for

transmission of a signal in one direction, a second for reception of a signal from another direction and the third for blocking reception back of signals previously transmitted from such station, and means for synchronizing said control means to effect directional communication between said terminal stations utilizing said repeater station for both directions of communication.

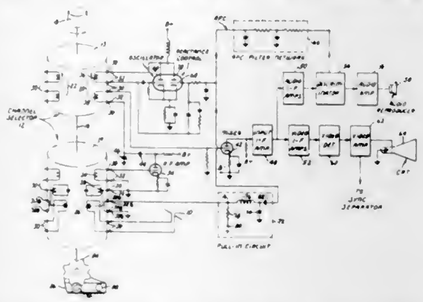
2,666,846
ANTENNA NETWORK
John W. Davis, Lawndale, Calif., assignor to Richard Lane and Robert S. Groman, doing business as Television Accessories, Los Angeles, Calif., a copartnership
Application July 8, 1950, Serial No. 172,728
4 Claims. (Cl. 250—16)



1. An antenna network comprising a first circuit including a connector adapted to be connected to one terminal of a household alternating current power source, a blocking condenser connected thereto, a first coil having one of its terminals connected to the said blocking condenser, a variable condenser connected across the said coil and a fixed condenser connected across the said variable condenser; a second circuit including a second connector adapted to be connected to the other terminal of said household alternating current power source, a second blocking condenser connected thereto, a second coil having one of its terminals connected to the said second blocking condenser and a second variable condenser connected across the said second coil, the other terminals of said first coil and said second coil being connectable respectively to opposite terminals of the input circuit of a receiver.

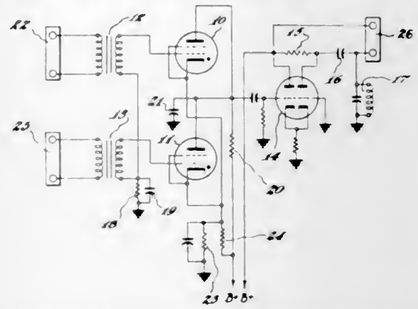
2,666,847
AUTOMATIC FREQUENCY CONTROL FOR CARRIER-WAVE RECEIVERS
Albert R. Alter, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application June 25, 1949, Serial No. 101,465
3 Claims. (Cl. 250—20)

3. In an automatic frequency control system for a carrier wave receiver of the type in which the output of a local oscillator is heterodyned with a received carrier wave to develop in response thereto an I-F carrier signal having a nominal assigned frequency, and wherein a manually-actuable channel selector device having a plurality of indexed positions is employed to tune the receiver selectively to any one of a plurality of preselected channels, said receiver further including a frequency discriminator responsive to said I-F carrier signal being subject to fortuitous departures from said nominal assigned frequency beyond the effective range of said discriminator during the tuning of said receiver from one channel to another, said receiver further including a reactance control tube circuit operatively coupling said frequency discriminator and said local oscillator: the combination comprising frequency-modulating means operatively associated with said channel selector device and with said oscillator, said frequency-modulating means including oscillatory means, exclusive of the hereinbefore recited apparatus, for developing a



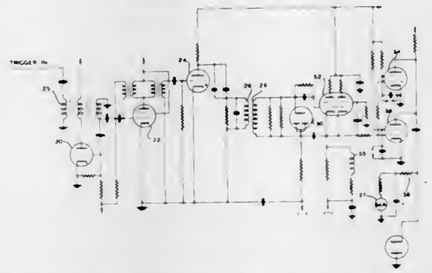
transient oscillation in response to actuation of said channel selector device from one to another of its indexed positions, said frequency modulating means being effective to produce in response to said transient oscillation a transient oscillatory perturbation in the frequency of said local oscillator sufficient to bring said I-F carrier signal within the said effective range of said discriminator.

2,666,848
SELECTIVE AUDIO GATE CIRCUIT
Thomas E. Goodwin, Hempstead, N. Y., assignor to Erco Radio Laboratories, Inc., Garden City, N. Y., a corporation of New York
Application December 2, 1948, Serial No. 63,170
10 Claims. (Cl. 250—27)



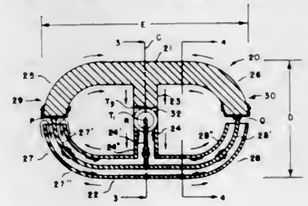
1. A rapid switching and mixing circuit adapted for use in a diversity radio telegraph receiver so that in the common output, any phase difference between any two audio frequency input voltages having substantially sine wave shapes and tending to produce cancellation effects such cancellation effects are prevented comprising: a plurality of audio input circuits, a plurality of gas-filled electron discharge devices having each of their respective control grids separately connected to one of said input circuits, said input circuits having a common return through common impedance means, the anodes of said discharge devices being connected to a common output circuit having a time-constant within the range of periodicity of the frequencies at which said audio circuits are adapted to operate, whereby the outputs of said discharge devices are a series of saw-tooth pulses, means for clipping said saw tooth outputs to produce square waves therefrom, and filtering means connected to said clipping means to produce the counterpart of the original sine wave inputs.

2,666,849
SHORT-PULSE MODULATOR
Harold L. Johnson, Pasadena, Calif., and Vernal Josephson, Cambridge, Mass.
Application October 12, 1945, Serial No. 622,053
7 Claims. (Cl. 250—27)



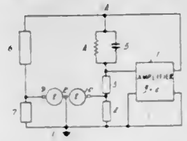
2. A circuit for producing a short duration rectangular pulse for energizing a modulator having a number of modulator tubes, said circuit comprising a switch tube responsive to an input trigger, a primary inductor energized by the operation of said switch tube, a secondary inductor closely coupled to said primary inductor and adapted to resonate with stray and tube capacitances at a wave length substantially double the desired modulator pulse length, means for damping all oscillation in said secondary circuit following the initial positive voltage swing, and a boot strapped driver tube energized by said positive voltage swing to beyond saturation for amplifying and squaring said positive voltage swing, said modulator tubes being adapted to be energized by said amplified and squared pulse to produce a pulse adapted to energize a magnetron.

2,666,850
ANTENNA
John D. Kraus, Newton Center, Mass., assignor to the United States of America as represented by the Secretary of War
Application March 29, 1946, Serial No. 657,950
5 Claims. (Cl. 250—33.67)



1. An antenna comprising two substantially E-shaped sections facing each other with the center branches thereof joined to effectively form two balanced symmetrically connected loops lying in the same plane, one of said E-shaped sections comprising a single wire conductor, the other of said sections comprising a coaxial conductor having an inner conductor and an outer concentric conductor, the ends of the free end branches of said single wire conductor being slightly spaced from the adjacent ends of said outer conductor, the ends of said inner conductor extending beyond said outer conductor and connected to the adjacent ends of said single wire conductor to complete each of said loops, means for transmitting electromagnetic energy to and from said loops, said means being coupled at the point of electrical symmetry of said two loops whereby said current flowing in one of said loops is in phase opposition to that in the other loop, said antenna thereby having maximum response to energy polarized in the plane parallel to the common plane of said loops and possessing high discriminatoin against energy polarized in the plane perpendicular to that of said loops.

2,666,851
FREQUENCY GENERATOR WITH PHASE SHIFTER
Bohdan Carniol, Prague, Czechoslovakia, assignor to Tesla slaboproude a radiotechnicke zavody, narodni podnik, Prague, Czechoslovakia
Application February 3, 1948, Serial No. 5,973
In Czechoslovakia November 11, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires November 11, 1966
18 Claims. (Cl. 250—36)

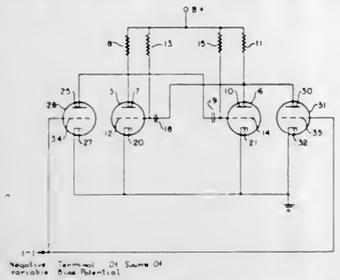


1. In an oscillator circuit, an amplifier having a pair of input terminals and a pair of output terminals and zero phase shift, a common grounded connection for one input and one output terminal; a voltage dividing feedback network connected between the output and the input of said amplifier and comprising interconnected resistances and reactances; said network including a first section connected between the other output terminal and the other input terminal and comprising a resistance and a reactance in parallel circuit relation, and a second section connected between such other input terminal and said common connection and comprising a resistance and a reactance in series circuit relation; a second voltage divider connected between said common connection and a point on said network and comprising interconnected resistances and reactances; means for applying a first alternating voltage between a point on said network and said common connection; and means for applying a second alternating voltage between a point on said second voltage divider and said common connection; said voltages having the same frequency, a constantly equal amplitude, and a quadrature phase relation.

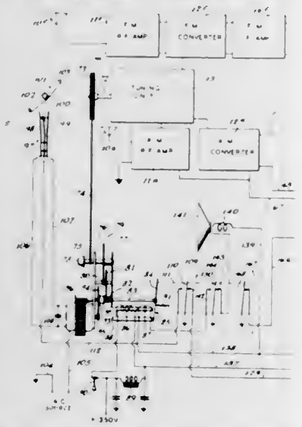
2,666,852
VARIABLE FREQUENCY MULTIVIBRATOR
Lowell M. Hollingsworth, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application April 2, 1946, Serial No. 659,049
3 Claims. (Cl. 250—36)

3. In combination, a free-running, symmetrical multivibrator including a pair of triode vacuum tubes, the anodes of each of said tubes being respectively coupled to the control grids of the other of said tubes, first and second loading triode vacuum tubes respectively connected in shunt with the respective cathode-anode current paths of the first-named pair of triodes, and

means for variably biasing the control grids of said loading triodes so as to vary the non-conducting periods of said first-named pair of triodes.



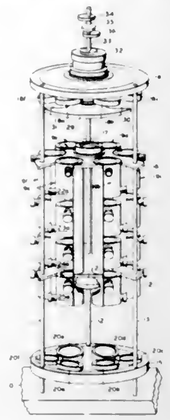
2,666,853
STOP-ON-SIGNAL RADIO APPARATUS
William J. O'Brien, Oxshott, England, assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 5, 1950, Serial No. 166,233
23 Claims. (Cl. 250—40)



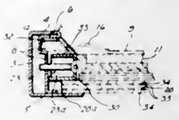
1. In stop-on-signal radio apparatus, a variable tuner means for varying said tuner, means for abruptly terminating variation of said tuner in response to a signal tuned by said tuner, including a discriminator network providing substantially zero voltage output when a signal is tuned in by said tuner, a relay operated quick stopping mechanism responsive to the tuning in of a signal by said tuner, and means coupled to the discriminator output effective to prevent operation of said mechanism until the discriminator voltage output closely approaches zero.

2,666,854
RECORDING SYSTEM
Joseph W. Hutchins, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 10, 1950, Serial No. 154,981
12 Claims. (Cl. 250—43.5)

1. A recording system for simultaneously indicating the magnitude of a plurality of electrical signals which comprises, in combination, an electric motor, means for periodically applying a plurality of electrical signals to be recorded, in succession, to said motor to cause rotation thereof, a servo-transmitter actuated by said motor whereby the magnitude of the output signal of said servo-transmitter is proportional to the rotation of said motor, a plurality of servo-receivers, one for each signal to be recorded, and means for periodically connecting said receivers, in succession, to said servo-transmitter in the same timed relation as that in which the signals are successively applied to said motor.



2,666,855
X-RAY FILM CASSETTE
Leonard W. Gacki, Jamaica, and Walter A. Winfield, Bronx, N. Y., assignors to Xray Instrument Corporation, a corporation of New York
Application May 21, 1952, Serial No. 289,068
6 Claims. (Cl. 250—68)



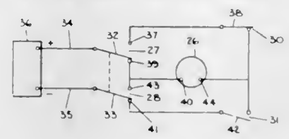
1. An X-ray film cassette comprising a plate supported X-ray sensitive materials; a retainer for the plate; a hinge supported cover; a hollow girder frame having a base flange and a top flange, an extension of the top flange bent to form a vertical support intermediate the extremities of the top of the frame; and means fixing together the hinge, the retainer and said frame.

2,666,856
X-RAY FLUORESCENT RESPONSE INTENSIFIER
Frederic Fua, New York, N. Y., and Robert C. Woods, Montclair, N. J., assignors to X-Ray Electronic Corporation, New York, N. Y., a corporation of New York
Application October 8, 1946, Serial No. 702,034
1 Claim. (Cl. 250—71)



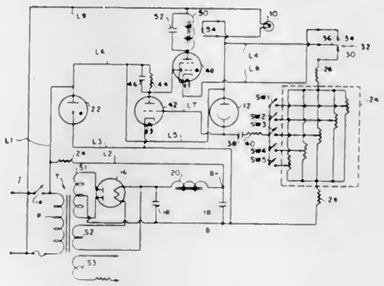
In a mensuration system utilizing a photocell activated by fluorescence induced by X-ray, the combination including a source of X-ray, a photocell in the path of X-ray from said source, and a composite X-ray opaque screen element interposed in said path and disposed to put said photocell in its X-ray shadow, said screen element comprising a lead glass sheet disposed on the side toward said photocell, a layer of fluorescent material deposited on said lead glass sheet on the side away from said photocell, and a thin metallic coating deposited on said fluorescent layer on the side away from said lead glass sheet.

2,666,857
RADIOACTIVE TEST CIRCUIT
Ian H. McLaren, Dearborn, and Carl E. Alsterberg, Detroit, Mich., assignors to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware
Application December 29, 1949, Serial No. 138,062
8 Claims. (Cl. 250—83.6)



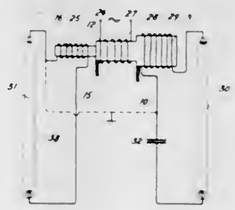
1. In an apparatus for testing the operation of a system for measuring the amount of radioactivity in a particular locality, an ionization chamber, a radioactive specimen, a motor for driving the radioactive specimen, the motor normally positioning the radioactive specimen out of the field of the ionization chamber, manually operated switching means connected to the motor, and a pair of motor-driven switches operative to stop the motor after a predetermined amount of rotation and prepare the motor for rotation in a reverse direction.

2,666,858
PHOTOGRAPHIC EXPOSURE CONTROL CIRCUIT
Bernard Levine, Bronx, N. Y., assignor to The Fotopak Corp., Englewood, N. J.
Application June 6, 1951, Serial No. 230,159
2 Claims. (Cl. 250—214)



1. In a photographic printing apparatus in which the discharge of a capacitor through a predetermined range and under the control of a light sensitive cell determines the exposure period, a capacitor, an electron tube having a grid connected directly to one plate of the capacitor and having at least an anode and a cathode, a voltage rectifier, said anode being in circuit with the positive terminal of said rectifier, said cathode being in circuit with the negative terminal of said rectifier, a voltage divider for said rectifier, the other plate of said capacitor being connected to said voltage divider for charging said capacitor, a light sensitive cell, connected for discharging said capacitor in accordance with the conductance of said cell, the charge on said capacitor initially biasing said tube to cut off current flow therethrough, and said tube being rendered conductive upon said discharge of said capacitor to terminate the exposure period and means for maintaining said charge upon said capacitor at a constant level immediately prior to the start of said exposure period, said latter means being voltage regulator means connected across the output of said voltage rectifier means.

2,666,859
TRANSFORMER
Daniel Kayser, Paris, France, assignor to Societe Anonyme pour les Applications de l'Electricite et des Gaz Rares-Etablissements Claude-Paz & Silva
Application December 15, 1950, Serial No. 201,040
Claims priority, application France
October 17, 1950
6 Claims. (Cl. 307—17)

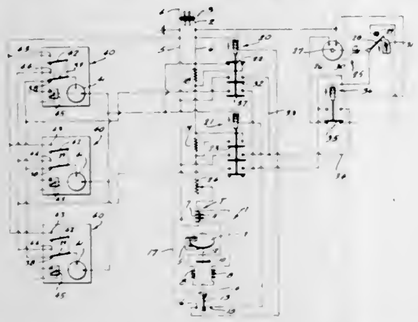


1. A transformer for supplying electrically displaced currents for operating two electric discharge devices, comprising, a magnetizable core having yoke portions and at least one winding leg, on said winding leg a primary energizing winding and a first and a second secondary winding, the magnetic leakages between said primary winding and said secondary windings being substantial, each secondary winding having leads for connecting it to one of the discharge devices and a condenser being connected in series with said first secondary winding for causing it to furnish a leading current, the cross-section surface of the winding leg being substantially larger in the portion thereof upon which is wound said first secondary than in the portion upon which is wound said second secondary, and the cross-section surface of those yoke portions which are traversed by the same magnetic flux as the portions of the winding leg upon which is wound said first secondary winding being substantially larger than the cross-section surface of those yoke portions which are traversed by the same magnetic flux as the portions of the winding leg upon which is wound said second secondary winding.

2,666,860
AUTOMATIC CONTROL MEANS
William J. Weinfurt, Wauwatosa, and Alton G. Bale, Jr., Milwaukee, Wis., assignors to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware
Application December 30, 1950, Serial No. 203,697
4 Claims. (Cl. 307—35)

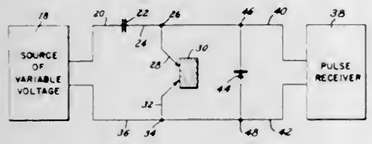
1. Automatic control means comprising a plurality of independent driven switches, a driving motor for each of said driven switches, a first and a second contactor for simultaneously controlling said motors for respectively closing and opening said switches, a power line, a contact making voltmeter controlling said contactors and responsive to voltage variations in said power line,

said contact making voltmeter controlling the selective energization of said contactors, a single time delay means for delaying the operation of



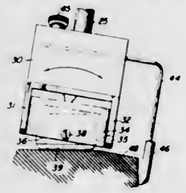
all of said motors, and a holding relay controlling the operation of said motors and causing deenergization of said time delay means after said time delay means has functioned.

2,666,861
TRANSDUCER
Richard D. Campbell, Brookmont, Md., assignor to Reed Research Inc., Washington, D. C., a corporation of Delaware
Application January 9, 1952, Serial No. 265,639
15 Claims. (Cl. 307—88)



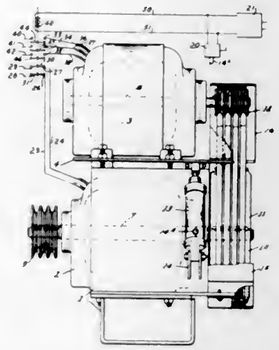
5. A transducer for translating quantitative values into pulses comprising an input circuit containing a quantitative voltage source and a series reactance, an output circuit, and a semiconductive high resistivity p-type germanium body whose voltage-current characteristic includes a closed loop, said body having a point contact and a contact of relatively large area providing common connections with said circuits.

2,666,862
RAIL FLAW DETECTION DEVICE
Norman G. Branson, Stamford, Conn., assignor to Branson Instruments, Inc., Stamford, Conn., a corporation of Connecticut
Application April 11, 1951, Serial No. 220,486
4 Claims. (Cl. 310—8.1)



1. A hand-operated ultrasonic rail inspection device comprising a handle of such length as to extend from the rail to the hand of an operator standing beside the rail, a head rigidly attached to said handle and having a pair of downwardly extending side members, a cradle pivotally supported on and positioned between said members for rotation about an axis, said cradle having a second pair of downwardly extending side members, a holder pivotally mounted on and positioned between the side members of said cradle for rotation on an axis substantially at right angles to said first mentioned axis, and a flat-faced electro-mechanical transducer unit which alone directly contacts the rail mounted in the bottom face of said holder and adapted to rest upon the top surface of a rail, the lowermost portions of said cradle and said holder terminating a sufficient distance above the bottom of said unit to permit substantial tilting of said head in all directions without bringing said portions into contact with the rail.

2,666,863
TWO ELECTRIC MOTOR POWER UNIT
Ernest Davis and Russell D. McCallum, Syracuse, N. Y., assignors to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application March 8, 1951, Serial No. 214,483
4 Claims. (Cl. 310—112)

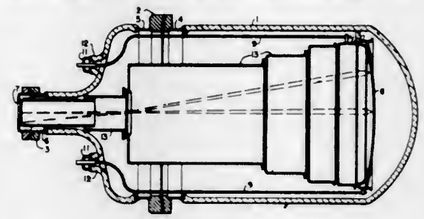


1. A two-speed power unit comprising a frame, a first electric motor rigidly mounted in the frame and having a given speed, a carriage movably mounted on the frame, a second motor having a speed different from said first motor mounted on said carriage with its shaft extending parallel to the shaft of said first motor, said carriage being shiftable on the frame to shift said second motor and its shaft toward and from the shaft of said first motor, the shafts of both motors having alined sheaves at like ends, a belt trained over said sheaves, the sheave mounted on the shaft of one of said motors being of larger diameter than the sheave mounted on the shaft of said other motor, and means operable to shift said carriage to tighten and loosen the belt.

2,666,864
IMAGE INTENSIFIER TUBE
Richard L. Longini, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 20, 1950, Serial No. 139,715
15 Claims. (Cl. 313—65)

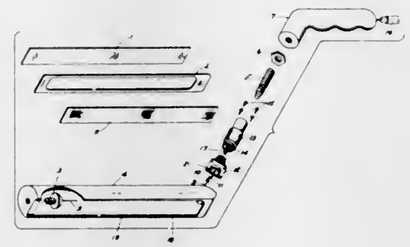
1. An image intensifier device comprising an evacuated container having at one end a screen which emits light in response to incidence of moving electrons and having at the other end an input screen comprising a support, a first layer comprising a substance which emits light in response to an incident radiation and another layer

adjacent thereto which is photoelectrically emissive, and an electron lens system between



said screens comprising conducting members having surfaces of zinc sulphide.

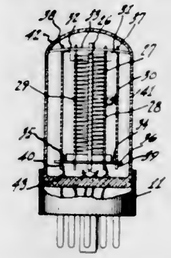
2,666,865
SURVEY INSTRUMENT
Casimer J. Borkowski, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application May 16, 1947, Serial No. 748,433
2 Claims. (Cl. 313—93)



1. A survey instrument of the character described comprising an elongated hollow metal casing, a conductor disposed within and insulated from the casing, a window in said casing for exposing the conductor to external electrical influences, an open frame slidably positioned over said window, a shield of thin porous material carried by said frame and enclosing it for resisting the ingress of contamination, and a metal mesh mounted on said frame and substantially co-extensive with said shield for preserving substantial uniformity of electrical field about the conductor.

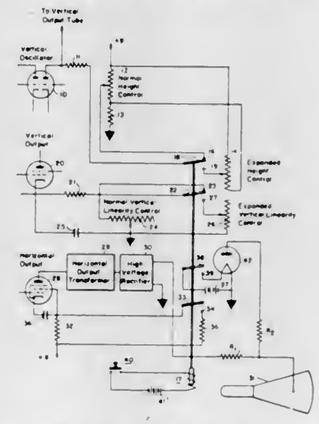
2,666,866
RUGGEDIZED ELECTRON TUBE
Hans J. Prager, Maplewood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 13, 1950, Serial No. 167,789
4 Claims. (Cl. 313—258)

4. A ruggedized electron tube including an envelope having a domed end and a mount having one end extending into said domed end, said mount having at said one end thereof a spacer plate, having relatively obtuse corners and curvatures between said corners engaging said dome, said plate being bodily flexed throughout its extent by a forceful engagement of said domed end by said obtuse corners and curvatures of the plate, said plate having passageways extending therethrough, said mount including electrodes extending axially of said envelope and into said



passageways, whereby said mount is ruggedly supported in said envelope and said passageways are angularly disposed axially with respect to said electrodes for locking said electrodes in said plate.

2,666,867
SWITCHING CIRCUIT
Alden Packard, Sunbury, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 27, 1950, Serial No. 202,868
5 Claims. (Cl. 315—19)

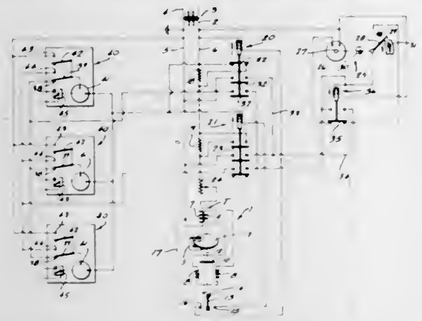


1. In combination with a television picture tube having a second anode, a circuit for generating a horizontal scanning current for said tube and for supplying direct current voltage to said anode, means for modifying said circuit for increasing the horizontal scanning angle of the electron beam of said tube, means operated concurrently with said last mentioned means for reducing the voltage at said anode, said means comprising an electron tube and a resistor connected in series to said anode and to ground, and means for causing said electron tube to conduct.

2,666,868
ELECTRONIC SWITCH
Edwin M. McMillan, San Marino, Calif.
Application January 22, 1944, Serial No. 519,317
1 Claim. (Cl. 315—22)

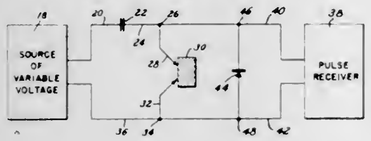
An electronic switch comprising, a plurality of trigger circuits having two stable conditions, each said trigger circuit comprising a pair of pentode tubes, each having at least an anode, a cathode, a control grid and a suppressor grid, a cathode-

said contact making voltmeter controlling the selective energization of said contactors, a single time delay means for delaying the operation of



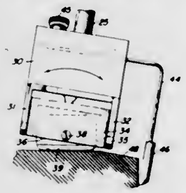
all of said motors, and a holding relay controlling the operation of said motors and causing deenergization of said time delay means after said time delay means has functioned.

2,666,861
TRANSDUCER
Richard D. Campbell, Brookmont, Md., assignor to Reed Research Inc., Washington, D. C., a corporation of Delaware
Application January 9, 1952, Serial No. 265,639
15 Claims. (Cl. 307—88)



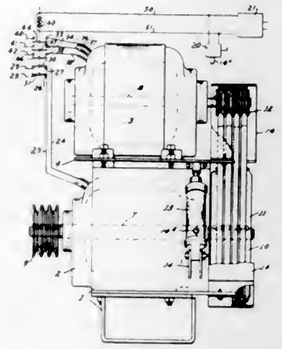
5. A transducer for translating quantitative values into pulses comprising an input circuit containing a quantitative voltage source and a series reactance, an output circuit, and a semiconductive high resistivity p-type germanium body whose voltage-current characteristic includes a closed loop, said body having a point contact and a contact of relatively large area providing common connections with said circuits.

2,666,862
RAIL FLAW DETECTION DEVICE
Norman G. Branson, Stamford, Conn., assignor to Branson Instruments, Inc., Stamford, Conn., a corporation of Connecticut
Application April 11, 1951, Serial No. 220,486
4 Claims. (Cl. 310—8.1)



1. A hand-operated ultrasonic rail inspection device comprising a handle of such length as to extend from the rail to the hand of an operator standing beside the rail, a head rigidly attached to said handle and having a pair of downwardly extending side members, a cradle pivotally supported on and positioned between said members for rotation about an axis, said cradle having a second pair of downwardly extending side members, a holder pivotally mounted on and positioned between the side members of said cradle for rotation on an axis substantially at right angles to said first mentioned axis, and a flat-faced electro-mechanical transducer unit which alone directly contacts the rail mounted in the bottom face of said holder and adapted to rest upon the top surface of a rail, the lowermost portions of said cradle and said holder terminating a sufficient distance above the bottom of said unit to permit substantial tilting of said head in all directions without bringing said portions into contact with the rail.

2,666,863
TWO ELECTRIC MOTOR POWER UNIT
Ernest Davis and Russell D. McCallum, Syracuse, N. Y., assignors to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application March 8, 1951, Serial No. 214,483
4 Claims. (Cl. 310—112)

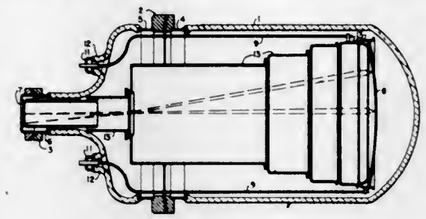


1. A two-speed power unit comprising a frame, a first electric motor rigidly mounted in the frame and having a given speed, a carriage movably mounted on the frame, a second motor having a speed different from said first motor mounted on said carriage with its shaft extending parallel to the shaft of said first motor, said carriage being shiftable on the frame to shift said second motor and its shaft toward and from the shaft of said first motor, the shafts of both motors having alined sheaves at like ends, a belt trained over said sheaves, the sheave mounted on the shaft of one of said motors being of larger diameter than the sheave mounted on the shaft of said other motor, and means operable to shift said carriage to tighten and loosen the belt.

2,666,864
IMAGE INTENSIFIER TUBE
Richard L. Longini, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 20, 1950, Serial No. 139,715
15 Claims. (Cl. 313—65)

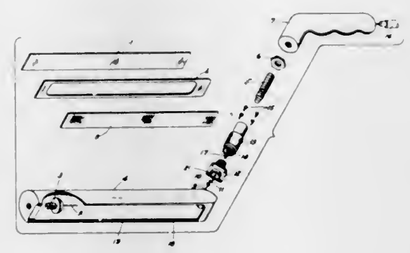
1. An image intensifier device comprising an evacuated container having at one end a screen which emits light in response to incidence of moving electrons and having at the other end an input screen comprising a support, a first layer comprising a substance which emits light in response to an incident radiation and another layer

adjacent thereto which is photoelectrically emissive, and an electron lens system between



said screens comprising conducting members having surfaces of zinc sulphide.

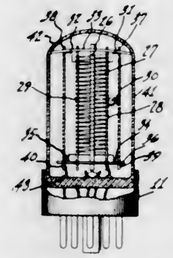
2,666,865
SURVEY INSTRUMENT
Casimer J. Borkowski, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application May 16, 1947, Serial No. 748,433
2 Claims. (Cl. 313—93)



1. A survey instrument of the character described comprising an elongated hollow metal casing, a conductor disposed within and insulated from the casing, a window in said casing for exposing the conductor to external electrical influences, an open frame slidably positioned over said window, a shield of thin porous material carried by said frame and enclosing it for resisting the ingress of contamination, and a metal mesh mounted on said frame and substantially co-extensive with said shield for preserving substantial uniformity of electrical field about the conductor.

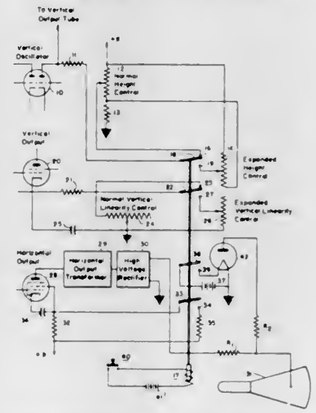
2,666,866
RUGGEDIZED ELECTRON TUBE
Hans J. Prager, Maplewood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 13, 1950, Serial No. 167,789
4 Claims. (Cl. 313—258)

4. A ruggedized electron tube including an envelope having a domed end and a mount having one end extending into said domed end, said mount having at said one end thereof a spacer plate, having relatively obtuse corners and curvatures between said corners engaging said dome, said plate being bodily flexed throughout its extent by a forceful engagement of said domed end by said obtuse corners and curvatures of the plate, said plate having passageways extending therethrough, said mount including electrodes extending axially of said envelope and into said



passageways, whereby said mount is ruggedly supported in said envelope and said passageways are angularly disposed axially with respect to said electrodes for locking said electrodes in said plate.

2,666,867
SWITCHING CIRCUIT
Alden Packard, Sunbury, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 27, 1950, Serial No. 202,868
5 Claims. (Cl. 315—19)

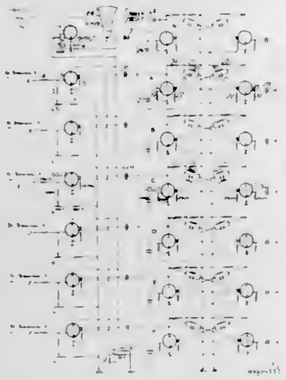


1. In combination with a television picture tube having a second anode, a circuit for generating a horizontal scanning current for said tube and for supplying direct current voltage to said anode, means for modifying said circuit for increasing the horizontal scanning angle of the electron beam of said tube, means operated concurrently with said last mentioned means for reducing the voltage at said anode, said means comprising an electron tube and a resistor connected in series to said anode and to ground, and means for causing said electron tube to conduct.

2,666,868
ELECTRONIC SWITCH
Edwin M. McMillan, San Marino, Calif.
Application January 22, 1944, Serial No. 519,317
1 Claim. (Cl. 315—22)

An electronic switch comprising, a plurality of trigger circuits having two stable conditions, each said trigger circuit comprising a pair of pentode tubes, each having at least an anode, a cathode, a control grid and a suppressor grid, a cathode-

anode circuit for each tube, coupling means interconnecting the cathode-anode circuit of each pentode tube with the suppressor grid of the other electron tube of the respective pair of pentode tubes, means connecting the cathode-anode circuit of a first pentode tube in a respective trigger circuit to the control grid of a corresponding pentode tube in another trigger circuit whereby to form a cascade ring of trigger circuits, a number of pentode switch tubes equal to one less than the number of trigger circuits in said cascade ring, each having at least a control grid, a suppressor grid, and an anode, said anodes of said switch tubes being connected in parallel to each other to form a common output circuit, a cathode ray tube connected to said common out-



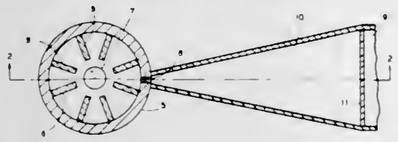
put circuit, a sweep circuit for said cathode ray tube, individualized input means connected to said control grids of said switch tubes, individualized means coupling each suppressor grid of said switch tubes to the cathode-anode circuit of one of said first tubes in respective ones of said trigger circuit, pulse means coupled to the control grids of the second pentode tubes in said trigger circuits in parallel with each other for impressing negative pulse voltages thereon, and synchronizing means connecting the cathode-anode circuit of the first tube in the remaining trigger circuit with said sweep circuit, whereby the indicator means sequentially receives the respective outputs of said switch tubes at a rate determined by the pulsing rate of said pulse means.

2,666,869

MAGNETRON OUTPUT COUPLING SYSTEM

Albert M. Clogston, New York, N. Y., and Alexander G. Smith, Durham, N. C., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War

Application June 21, 1946, Serial No. 678,240
10 Claims. (Cl. 315—39)



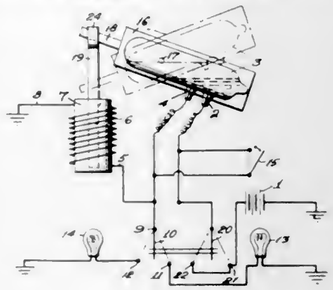
1. In a hyper-frequency energy generation system, a magnetron electron discharge device having a source of electrons, said device having a plurality of cavity resonators symmetrically disposed about an axis, a rectangular wave guide, a transitional section of wave guide of rectangular cross-section having one end connected to said rectangular wave guide and its other end abutted against the outer wall of said magnetron and hermetically sealed thereto, a substantially rectangular passage being provided in the magnetron wall opening into the interior of said transitional section and one of the cavity resonators of said magnetron, said passage extending axially substantially the height of said cavity resonator and said transitional wave guide section and being appreciably narrower in width than said cavity resonator, said transitional wave guide section having a constant height in the axial direction.

2,666,870

SIGNAL SYSTEM FOR VEHICLES

Bohor Robert Lévy, Cholsy-le-Roi, France

Application April 11, 1950, Serial No. 155,141
Claims priority, application France April 14, 1949
2 Claims. (Cl. 315—217)



2. A signal system for vehicles equipped with a pair of signal lights, comprising, in combination, a source of current, a circuit connecting one side of each light to said source, a manually operable changeover switch in said circuit having a neutral position in which said circuit is opened and a pair of selective contacts connected to said respective lights, an interrupter in said circuit comprising a tiltable support, a mercury switch tube having a pair of spaced terminals at one end thereof connected between said changeover switch and said source, means to adjustably secure said tube on said support to normally close the contact between said two terminals by gravity, an electromagnetic coil connected through said changeover switch to said source via said interrupter, an axially movable core actuated by said coil, and means to link said movable core with said support to tilt the same against gravity to open the contact between said terminals when said core is attracted into said coil so as intermittently to interrupt the circuit through the selected light when said changeover switch is in its corresponding position, and a second manually operable switch connected across the terminals of said mercury switch for disabling the same and for feeding a selected one of said lights with a continuous uninterrupted current, in accordance with the position of said changeover switch.

2,666,871

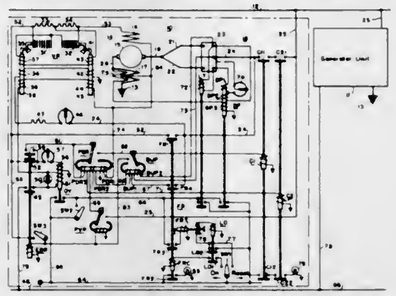
ELECTRIC POWER SYSTEM FOR AIRCRAFT

Bascum O. Austin and Ralph D. Jessee, Lima, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 15, 1950, Serial No. 174,040
8 Claims. (Cl. 317—13)

7. A control and protective system for a direct-current generator having a shunt field winding and a series field winding, said system in-

cluding a feeder circuit for connecting the generator to a load bus, at least a part of said feeder circuit comprising two parallel-connected conductors, two electrically operated switches connected in series between said parallel conductors and the bus, a differential relay having an operating coil responsive to the current in one of said parallel conductors, an operating coil responsive to the current in the other of said parallel conductors, and an operating coil responsive to the current in the generator series field winding, the last-mentioned coil opposing the two first-mentioned coils, the differential relay being actuated by unbalance of said currents, means for effecting deenergization of the generator shunt field winding and opening of said



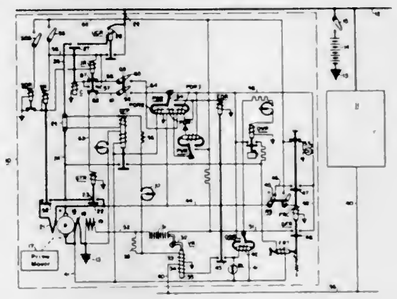
switches in response to actuation of said differential relay, a first polarized relay having a contact connected in the energizing circuit of one of said switches, said first relay having a coil connected to be responsive to current in the generator series field winding and being adapted to actuate its contact to effect opening of said one switch in response to reverse current in the generator, and a second polarized relay having a contact connected in the energizing circuits of both said switches, said second relay having a coil connected to be responsive to current flow in said feeder circuit and being adapted to actuate its contact to effect opening of both switches in response to reverse current in the feeder circuit, the second relay being adjusted to respond to a higher value of current than the first relay.

2,666,872

ELECTRIC POWER SYSTEM FOR AIRCRAFT

Bascum O. Austin, Ralph D. Jessee and Clare A. Stump, Jr., Lima, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 19, 1950, Serial No. 180,424
12 Claims. (Cl. 317—13)



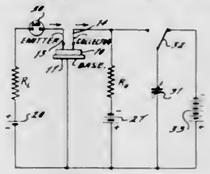
3. In combination, a direct current dynamo-electric machine for supplying power to a load bus, said machine having a plurality of field windings, electrically operated switch means for connecting the machine to the load bus through different combinations of field windings to operate the machine either as a starting motor for its prime mover or as a generator supplying power to the load bus, a voltage regulator for controlling the excitation of one of said field windings, circuit means including a field relay for controlling the energization of the field winding and the electrically-operated switch means, and relay means operable to control the operation of the field relay to effect the opening of the field circuit and the electrically-operated switch means in response to a fault in the machine.

2,666,873

HIGH CURRENT GAIN SEMICONDUCTOR DEVICE

Bernard N. Slade, Morristown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 21, 1950, Serial No. 157,246
18 Claims. (Cl. 317—235)



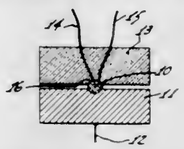
1. A semi-conductor device comprising a semiconducting body, a base electrode, an emitter electrode, a collector electrode, said electrodes being in contact with said body, said device being electrically treated by passing a short and intense pulse of current in the reverse direction between said collector and base electrodes under a condition of steady current flow in the reverse direction between said collector and base electrodes and in the forward direction between said emitter and base electrodes and with said emitter and collector electrodes spaced from each other no less than 10 mils, whereby the internal feedback of said device becomes negligible and its current gain is increased.

2,666,874

CONSTRUCTION OF SEMICONDUCTOR DEVICES

Loy E. Barton, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

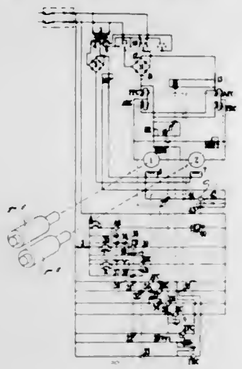
Application August 25, 1950, Serial No. 181,362
5 Claims. (Cl. 317—235)



1. A semi-conductor device comprising a semiconducting body of substantially spherical shape and having a diameter which does not exceed approximately 10 mils in any direction, a member of soft metal in a low-resistance contact with a substantial portion of the surface of said body, a block of insulating material, a pair of wires imbedded in said block, said block having a curved surface along which the ends of said wires are exposed in spaced apart relationship,

said curved surface of said block conforming to and contacting another surface portion of said body whereby said wires are caused to make rectifying contact with said body when said surfaces are in contact.

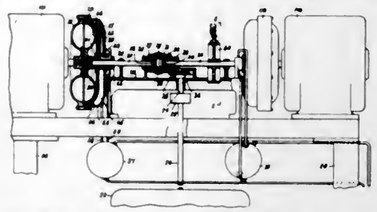
2,666,875
PLURAL MOTORS DRIVING REVERSIBLE DRAW ROLLERS
William John Norton, Salford, England, assignor to Sir James Farmer Norton & Company Limited, Salford, England, a British company
Application July 17, 1950, Serial No. 174,151
Claims priority, application Great Britain October 3, 1949
5 Claims. (Cl. 318—7)



1. Motor control means, for use in dye jiggers and like machines of the type comprising two draw rollers between which a material is caused to pass back and forth and direct current motors for driving the rollers, comprising contactors for connecting one motor at a time to a power supply for forward and reverse running, a speed regulating resistance adapted to be connected in series with the active motor by the contactors, a brake regulating resistance, further contactors adapted to connect the brake regulating resistance in parallel with the armature of the inactive motor, a normally open relay contact connected across at least a part of the speed regulating resistance, a normally closed relay contact connected across at least a part of the brake regulating resistance, and a timing relay adapted to control said contacts, and means for energising the timing relay to cause the normally open contact to close and the normally closed contact to open, after a predetermined period from the starting of one of the motors.

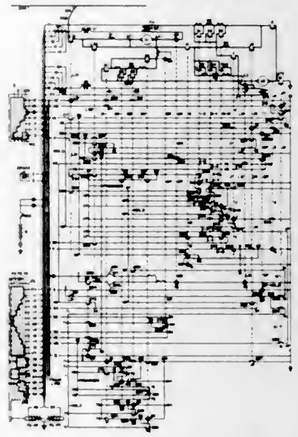
2,666,876
ELECTRIC MOTOR DRIVE FOR DIFFERENTIAL GEARING
Harold Sinclair, London, England
Application February 24, 1950, Serial No. 145,978
Claims priority, application Great Britain March 1, 1949
5 Claims. (Cl. 318—8)

1. An electric motor installation including a differential mechanical gearing having two input elements and an output element, and two alternating current electric motors coupled respectively to said input elements, at least one of said motors being an induction motor having a torque-speed characteristic which as the motor accelerates passes through a peak value and then falls to a lower value at the normal operating speed of the motor, wherein a hydraulic turbo-coupling is included in the driving connection



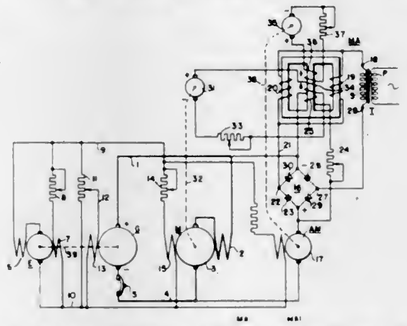
between said induction motor and the input element to which said induction motor is coupled.

2,666,877
DYNAMIC-BRAKING PROTECTION
George R. Purifoy, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 13, 1952, Serial No. 271,343
4 Claims. (Cl. 318—52)



1. A railway-motor control-assembly, including the combination; with two series-motor means, adapted to be connected to a plurality of drive-shafts of a vehicle, each series-motor means including a motor-armature or armatures, and a series field winding or windings connected in series therewith; of: (*a*) a braking-circuit means, providing two dynamic-braking circuits wherein the motor-armature or armatures of each of said series-motor means are loaded by the field winding or windings of the other one of said series-motor means, respectively, both of said dynamic-braking circuits including variable braking-circuit resistance; (*b*) a separate braking-controlling limit-relay means, for individually responding to conditions in the respective dynamic-braking circuits, each of said braking-controlling limit-relay means being energized to be responsive to conditions which accompany a lower-than-desired braking-current in its own dynamic-braking circuit; and (*c*) a progressively operating braking-control means, operative only whenever a low-current condition exists simultaneously in both of said limit-relay means, for progressively controlling the braking-adjustments of both of said dynamic-braking circuits during dynamic-braking conditions, said progressively operating braking-controlling means including a means for progressively reducing the braking-circuit resistance in both of said dynamic-braking circuits.

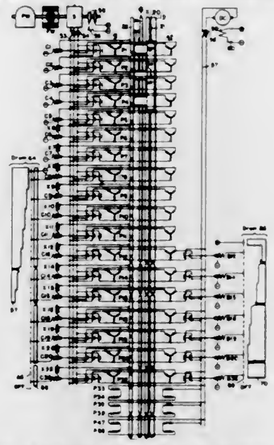
2,666,878
MAGNETIC AMPLIFIER SPEED REGULATOR CONTROL
Martin H. Fisher, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 13, 1951, Serial No. 251,176
13 Claims. (Cl. 318—72)



1. In a system of control for a sectional drive, in combination, a main direct-current motor having a field winding excited at any selected value and having an armature winding energized from supply terminals to operate at any selected speed by voltage changes of the supply terminals, an auxiliary direct-current motor having an armature winding and having a field winding excited at any selected constant potential, a full-wave rectifier having alternating-current input terminals and direct-current output terminals, the armature winding of said auxiliary motor being connected in series with the output terminals of the rectifier, a magnetic amplifier having output terminals connected to the input terminals of the rectifier, said amplifier having control windings responsive respectively to the speed of the main motor, the speed of the auxiliary motor, and the output of the magnetic amplifier, whereby the output terminals of the rectifier supply the auxiliary motor with an additive voltage sufficient to compensate for the IR drop of the auxiliary motor.

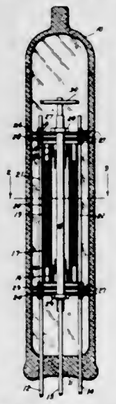
2,666,879
LINEAR MOTOR ASSEMBLY FOR CATAPULTS AND THE LIKE
Frank W. Godsey, Jr., and Maurice F. Jones, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 15, 1950, Serial No. 185,126
20 Claims. (Cl. 318—135)

1. A linear-motor assembly comprising, in combination: a trackway of considerable length; a relatively short car which is guided along said trackway, said car having a plate, made substantially of non-magnetic conducting material, secured thereto, extending out therefrom, and extending in a lengthwise direction, said plate constituting the armature of the linear motor; an elongated linear-motor stator-structure extending substantially the entire useful length of the trackway, said stator-structure comprising two substantially identical, inwardly facing, polyphase-wound magnetizable primary members disposed in planes parallel to said plate, and spaced from each other by a slot within which said plate moves, with a linear-motor airgap on each side of said plate, between said plate and the respective primary members; and energizing-means for energizing the polyphase stator-windings in sections to match the armature-position, the winding-arrangement and the energizing-means being such that, at all instants and at all places along the plate, wherever there is a north



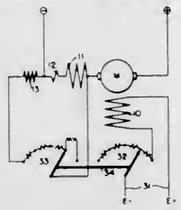
pole on one side of the plate, there is a south pole of substantially equal strength, substantially exactly opposite to said north pole, on the other side of the plate.

2,666,880
GASEOUS-DISCHARGE DEVICE
Paul W. Stutsman, Needham, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application June 16, 1950, Serial No. 168,426
2 Claims. (Cl. 313—185)



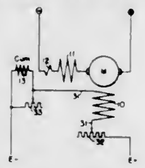
2. A gaseous discharge device comprising an envelope having therein a hollow cylindrical anode, an anode support rod extending through said anode spaced therefrom, a molybdenum cathode spaced from said anode by a distance substantially equal to the distance from the cathode to the outer edge of the Faraday dark region whereby the positive column drop of the gaseous discharge is substantially eliminated, said distance also being substantially equal to the minimum breakdown distance, a nickel cathode support member surrounding said cathode and coaxial therewith, said cathode support member and said anode extending axially beyond both ends of said cathode member, and a gaseous filling comprising substantially three parts of neon to two parts of argon at a pressure on the order of five centimeters of mercury.

2,666,881
AUXILIARY COMMUTATING-FIELD WINDING
Frank E. Williams, McKeesport, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 14, 1952, Serial No. 293,634
7 Claims. (Cl. 318—336)



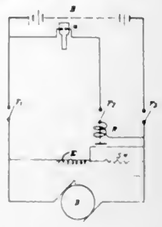
1. A direct-current motor including an armature, a shunt-type field-winding, a series compensating winding, a series commutating winding, an auxiliary commutating winding of more turns than the series commutating winding, a variable rheostat connected in series with said auxiliary commutating winding, and means for connecting said rheostat and said auxiliary commutating winding in a shunt circuit across a series winding-means which is connected in series with said armature, characterized by the excitation of the auxiliary commutating winding being differential with respect to the excitation of the series commutating winding, the motor having interpoles which carry the two commutating windings, the respective excitation-values of the two commutating windings and the effective interpolar airgap being so related that the total interpolar flux approximates an ideal value for satisfactory commutation at a load-condition approximating a load at least as large as full load.

2,666,882
AUXILIARY COMMUTATING FIELD
Maurice J. Pasculle, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 14, 1952, Serial No. 293,637
2 Claims. (Cl. 318—350)



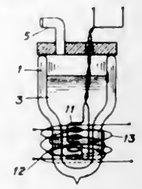
1. A variable-speed direct-current motor including an armature, a shunt-type field-winding, a shunt-field excitation-circuit including means for varying the excitation of said shunt-type field-winding over a considerable range, a series compensating winding, a series commutating winding, an auxiliary commutating winding, means for energizing the auxiliary commutating winding from the excitation-circuit of the shunt-type field-winding, the excitation of the auxiliary commutating winding being cumulative with respect to the excitation of the series commutating winding, and a ratio-adjustment means whereby to initially adjust the ratio of responsiveness of the excitation of the auxiliary commutating winding in dependence upon the excitation of the shunt-type field-winding, said motor having adjustable-gap interpoles which carry the two commutating windings, said adjustable-gap interpoles having a gap-adjustment means whereby to initially adjust the effective interpolar airgap.

2,666,883
METHOD OF AND APPARATUS FOR AUTOMATICALLY CHARGING ACCUMULATOR BATTERIES
Jean Pierre Guelpa, Colombes, France, assignor to Compagnie Generale d'Electricite, Paris, France, a corporation of France
Application September 6, 1950, Serial No. 183,338
8 Claims. (Cl. 320—23)



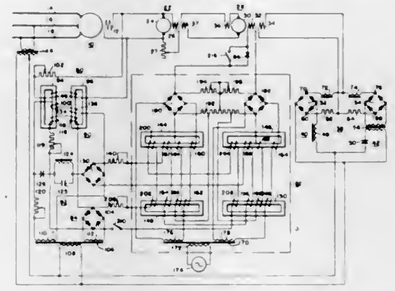
5. In apparatus for the automatic charging of storage batteries, a source of charging current, output variation means for controlling the output current of said source, a thermo-responsive device responsive to the difference between the temperature of the interior of a battery and the ambient atmosphere, actuating means connected between said thermo-responsive device and said output variation means whereby said thermo-responsive means causes actuation of said output variation means, said device and said means being so arranged that the output charging current of said source is reduced when the said temperature difference to which said thermo-responsive device is responsive, exceeds a determined critical value.

2,666,884
RECTIFIER AND CONVERTER USING SUPERCONDUCTION
Eric Arvid Ericsson, Stockholm, Anders Ossian Jorgensen, Traneberg, and Sune Lambert Overby, Stockholm, Sweden, assignors to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a Swedish company
Original application December 2, 1948, Serial No. 63,052. Divided and this application August 4, 1950, Serial No. 177,714
14 Claims. (Cl. 321—45)



1. Apparatus for rectifying alternating current comprising in combination, a conductor, means to maintain the temperature thereof at a level substantially that at which superconduction is obtained, means to surround said conductor with a constant magnetic field having an intensity such as to substantially restore the ohmic resistance of the conductor to normal, means to surround said conductor with a magnetic field having a variable component and means to pass the alternating current to be rectified through the said conductor, said variable component being in synchronism with said alternating current.

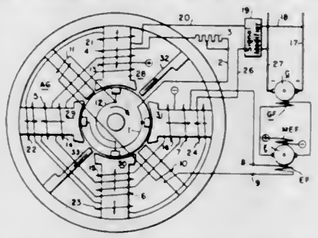
2,666,885
STATIC MINIMUM EXCITATION SYSTEM FOR ALTERNATORS
Schuyler L. Bradley, Pittsburgh, Pa., and Neil Nichols, Southgate, Calif., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 9, 1952, Serial No. 303,578
6 Claims. (Cl. 322—24)



1. In a system for preventing a voltage regulator from driving the excitation level of a regulated machine below a safe predetermined minimum value, the combination comprising, a field winding for the regulated machine, an amplifier comprising two control windings and disposed to control the energy supplied to the field winding of the regulated machine, a voltage reference network responsive to the output of the regulated machine, the output of the voltage reference network being electrically connected to one of the control windings of said amplifier to produce thereacross a voltage which increases in a predetermined manner, a sensing network responsive to the voltage across the field winding of the regulated machine and which produces at its output a voltage which rises in a predetermined manner, and another amplifier responsive to the output of the sensing network, the output of said another amplifier being electrically connected to the other of the control windings of said amplifier, whereby the voltage across said other of the control windings of said amplifier after reaching a predetermined value is equal to the voltage appearing across said one of the control windings of said amplifier and increases in the same predetermined manner as the voltage across said one of the control windings of said amplifier to thereby prevent the voltage across the field winding of the regulated machine from decreasing below the predetermined minimum value.

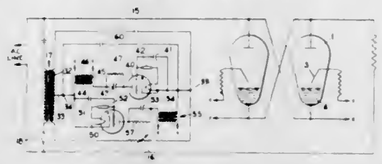
2,666,886
CONTROL OF THE HYSTERESIS SPREAD OF ROTATING DIRECT CURRENT MACHINES
William R. Harding, Ebenezer, Albert W. Kimball, Buffalo, and Lawrence G. Opel, Tonawanda, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 19, 1951, Serial No. 247,256
5 Claims. (Cl. 322—28)

1. An amplifying direct-current regulating generator, including in combination, a frame, a field structure having in the frame four circumferentially spaced poles alternately of north and south polarities so that the poles of like polarity are diametrically opposite to each other, an armature having a commutator with four brushes in normal use alternately of positive and negative electric polarities, a connection between said positive brushes and a similar connection between the negative brushes, an output circuit connected to the positive and negative connection of said brushes, an electric system controlled by the output current in the output circuit, series field coils disposed on all four poles respectively and disposed in series with the output circuit, said field coils being wound to determine the magnetic polarities of the four poles, an input circuit interconnected with the said electrical system to thus carry a current of a magnitude that is a function of the operation of said electrical system, said



input circuit having control windings disposed on all four poles respectively, said control windings being wound to produce polarities on the respective poles for weakening the flux produced by the said series field coils in response to variable signal excitation received from said electrical system, and a residual flux controlling pole, having a high magnetic retentivity, disposed in each of two opposite interpole spaces, the polarity of each control pole adjacent the armature airgap being opposite to the polarity to which the armature magnetomotive force would normally magnetize the main poles, whereby during operation of the generator at low voltage output a voltage is induced in the armature in opposition to the voltage induced in the armature by the residual flux to thus substantially eliminate the effect of the residual flux.

2,666,887
ELECTRIC ARC DEVICE
Stuart C. Rockafellow, Farmington, Mich., assignor to Robotron Corporation, Detroit, Mich., a corporation of Michigan
Application February 3, 1951, Serial No. 209,282
3 Claims. (Cl. 323—24)



1. A device for initiating and terminating the flow of current through a load circuit, comprising: an alternating source of potential; a first transformer, the primary winding thereof being connected to said source, a switch selectively interrupting the energization of said primary winding; a variable resistor and a capacitor and means connecting same in series with each other and means connecting said capacitor in series with one end of the secondary winding of said transformer and means connecting said variable resistor in series with the other end of said sec-

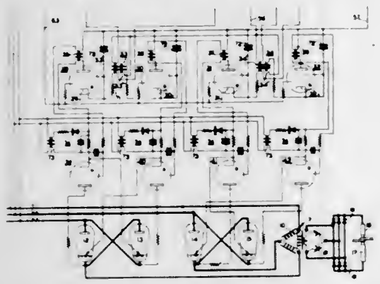
ondary winding; a first high voltage pulse producing circuit; means connecting one energizing end of said pulse producing circuit to a point intermediate said capacitor and said variable resistor and means connecting the other energizing end of the pulse producing circuit to a point intermediate the ends of the secondary winding of said first transformer; a second pulse producing circuit and means connecting one of its energizing ends in parallel with, but in reversed polarity to, the corresponding ends of said first pulse producing circuit; a pair of electric arc discharge devices each having an anode and a liquid pool cathode spaced from said anode, and each having a starting electrode positioned intermediate said anode and said cathode means and spaced from each thereof; means connecting said electric arc discharge devices in back-to-back relationship with each other and means connecting said electric arc discharge devices, said source of alternating potential and said load in series relationship; said pulse producing circuits including a pair of thyratrons connected in opposite polarity and each having a capacitor and the primary winding of a transformer in series in the anode circuit thereof, a resistor in parallel with each of said last-named capacitors, the secondary of each of said last-named transformers being connected to the starting electrode and to the cathode pool of each, respectively, of said electric arc discharge devices; and one of said energizing ends of said pulse producing circuit comprising a point between the cathode of one of said thyratrons and the primary winding in the anode circuit of the other of said thyratrons and the other of said energizing ends comprising a point between the cathode of the other of said thyratrons and the primary winding of the anode circuit of said one of said thyratrons.

2,666,888

VOLTAGE CONTROL CIRCUIT FOR WELDING APPARATUS

Joseph J. Riley and William S. Dustman, Warren, Ohio, assignors to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio

Application May 31, 1951, Serial No. 229,246
10 Claims. (Cl. 323—58)



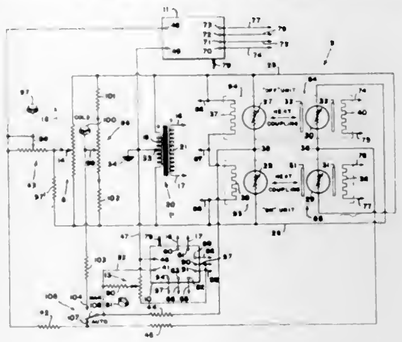
1. In a power control system for a load circuit adapted to be energized from an alternating current source the combination of a pair of inversely related electric discharge valves for controlling the flow of current from said source to said load circuit, each of said valves having a control element and an energizing circuit connected with said control element and including a grid controlled electronic discharge device, a source of direct current potential, oscillating circuits connected across the said direct current potential source and each comprising an electric discharge device, translating devices to impress the oscillations generated by said oscillating circuits onto the control grids of said electronic discharge devices to render the same conducting, means to establish and interrupt in sequence said source of direct current potential comprising an energizing circuit including a gaseous discharge device, means to initiate conduction in said oscillating circuits at a preselected point on the voltage wave of said alternating current source, and means to interrupt conduction in said gaseous discharge device comprising a second gaseous discharge device connected in parallel with said first mentioned gaseous discharge device and a capacitor interconnecting the anodes of said gaseous discharge devices.

2,666,889

CONTROL APPARATUS

Robert J. Ehret, Philadelphia, and Roger F. Wernlund, Southampton, Pa., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application March 15, 1951, Serial No. 215,846
37 Claims. (Cl. 323—66)



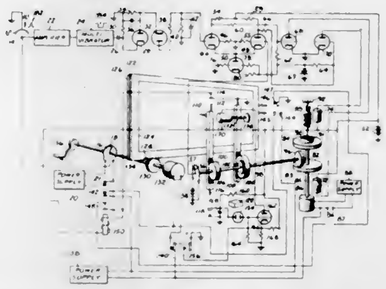
1. Electrical control apparatus for effecting time-proportioning control with automatic reset action comprising a regulator adapted to restrict to alternate predetermined minimum and maximum rates the flow of an agent which determines the actual value of a controlled variable, the average rate of flow of said agent during any given period of time being proportional to the ratio of the time of maximum flow during said period to the total length of said period, a first means operative to create an alternating voltage control signal having a magnitude and phase which are respectively dependent upon the extent and direction of the difference between the actual value of said controlled variable and a predetermined value thereof, a second means operative under the control of said regulator to create an alternating voltage follow-up signal which gradually changes in magnitude and shifts in phase in a predetermined manner with changes in said ratio, a third means operative under the control of said regulator to create an alternating voltage reset signal which gradually attains a magnitude and phase which are respective functions of the extent and direction of departure of said ratio from a median value, and means operative to apply the resultant of said control, follow-up, and reset signals to said regulator, the latter being operative under the control of said resultant signal to produce said minimum and maximum flow rates alternately and to adjust said ratio to a value which is above or below said median value, depending upon the phase of the resultant of said control and reset signals, by an amount which is substantially proportional to the magnitude of the last mentioned resultant signal, whereby said ratio is established as necessary to reduce said control signal to zero and to maintain an equilibrium condition between said follow-up and reset signals.

2,666,890

APPARATUS FOR TESTING GEIGER TUBES

Ralph L. De Voll, Grosse Pointe, and John Onia, Berkley, Mich., assignors to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware

Application July 27, 1950, Serial No. 176,236
23 Claims. (Cl. 324—24)



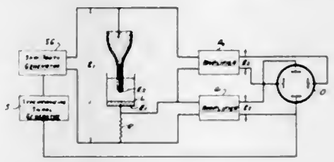
1. Apparatus for determining the response characteristic of a Geiger tube, including means for applying a continuously variable voltage on the tube, means for providing an indication of the response of the tube to radioactive emanations at the different voltage levels, and means responsive to a predetermined output from the tube to break off the supply of voltage to the tube.

2,666,891

OSCILLOGRAPHIC POLAROGRAPH

Silvio Weidmann, Bern, Switzerland, assignor, by mesne assignments, to Radio Patents Company, a partnership

Application September 17, 1946, Serial No. 697,583
18 Claims. (Cl. 324—31)



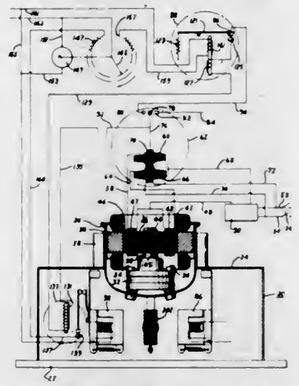
1. A polarograph comprising an electrolytic cell including a dropping electrode, a source of periodic sweep voltage connected to said cell, a cathode ray oscillograph having a pair of coordinate deflecting means, means for applying deflecting energy to one of said deflecting means varying in proportion to the current through said cell, to correspondingly deflect the cathode ray of said oscillograph in one coordinate direction, further means for applying voltage from said source to the other of said deflecting means, to deflect the cathode ray in the other coordinate direction, a multivibrator, means for synchronizing said multivibrator with the current impulses through said cell incident to the release of a mercury drop, and further means for maintaining said sweep voltage in synchronism with the multivibrator frequency.

2,666,892

APPARATUS FOR MAGNETICALLY LOCATING A ROTOR WITH RESPECT TO THE STATOR

John H. Heidorn, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application September 2, 1950, Serial No. 182,925
14 Claims. (Cl. 324—34)



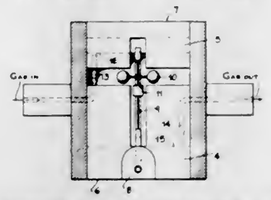
1. A locating device for properly locating a rotor shaft bearing relative to the stator of an electric motor including a member having a shaft bearing portion similar to the shaft bearing portion of the rotor to be used to be inserted into the rotor shaft bearing, said member also being shaped to provide a pair of opposed duplex poles symmetrically positioned relative to its shaft bearing portion and having their outer extremities terminating substantially at the theoretical periphery of a perfect rotor, said duplex poles being provided with identical windings, an electrodynamometer type device having a potential coil and two stationary coils, a power supply, and means connecting one of said windings and one of said stationary coils in series with each other to said power supply and connecting the second of said windings and the second stationary coil in series with each other across the power supply in opposed relation to said one winding and said one stationary coil to cause the potential coil to be deflected in accordance with the magnetic differences in the gaps between the two duplex poles and the adjacent portions of the stator.

2,666,893

APPARATUS FOR MEASURING THE MAGNETIC SUSCEPTIBILITY OF GASES

Charles Walter Munday, London, England, assignor to The Distillers Company Limited, Edinburgh, Scotland, a British company

Application December 19, 1950, Serial No. 201,551
Claims priority, application Great Britain December 22, 1949
11 Claims. (Cl. 324—36)



1. In an apparatus for measuring the magnetic susceptibility of gases which comprises a mag-

net, a cell adapted to be inserted as a unit between the facing poles of said magnet and providing a chamber therebetween, said cell being made of a substantially non-magnetic material, and having a frame and two magnetic pole pieces shaped to produce a non-uniform magnetic field fitting in the ends thereof, a test piece suspended in said chamber and mounted between the two pole pieces on a fibre rigidly supported at both ends within the chamber, means for the passage of gas through the chamber, said chamber being otherwise substantially gastight when in position between the poles of the magnet and means for the measurement of the angular deflection of the test piece, in accordance with the magnetic susceptibility of the gas in said chamber.

2,666,894

COMBINED FUSE TESTER AND FLASHLIGHT

Joseph Babernitsh, Vaux Hall, N. J.

Application May 4, 1951, Serial No. 224,539
1 Claim. (Cl. 324—53)



A fuse tester comprising a tubular non-conducting casing, a conductive first collar attached to the outside of the casing at one end, a second conductive collar attached to the outside of the casing at the other end, an electrically conductive apertured cap in threaded engagement with the first collar, a flanged conductive socket seated on the end of the first collar within the cap, a bulb in the socket with its vitreous end in the aperture in the cap, a straight conductive strip on the outside of the casing electrically connected to and extending from the first collar toward the second collar and then through the non-conducting casing and along the inside thereof, an apertured conductive cap in threaded engagement with the second collar, an annular internal rib in the cap defining a seat, a spring-pressed conductive contact plate normally positioned on the seat, a button attached to the contact plate and extending slidably through the apertured cap, a battery disposed in the casing with one electrode in contact with a contact of the bulb, an apertured conductive closure plate positioned inside and at the end of the non-conductive casing in contact with the end of the conductive strip and in opposition to the contact plate, a conductive spring with one end in engagement with the other electrode of the battery and the other end extending through the aperture in the closure plate and in electrical contact with the contact plate, said spring normally urging the contact plate into spaced relation to the closure plate, and said button adapted to move the contact plate into engagement with the closure plate.

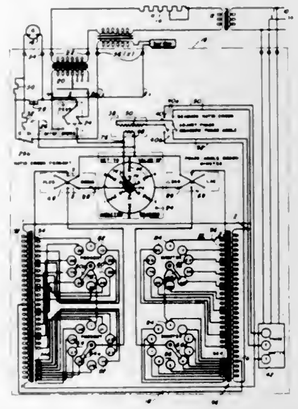
2,666,895

METHOD OF AND APPARATUS FOR THE CALIBRATION OF INSTRUMENT CURRENT TRANSFORMERS

Otto A. Knopp, Oakland, Calif., assignor, by decree of distribution, to Louise B. Knopp

Application September 26, 1945, Serial No. 618,743
31 Claims. (Cl. 324—55)

2. Apparatus for testing transformers comprising, in combination: a standard transformer, a detector having a current coil and a potential coil, a shunt resistor connected across the current coil, means including a power source for causing a difference current of the standard transformer and a transformer to be tested to flow in the shunt resistor, a phase shifter connected to the power source providing quadrature related voltages, a third transformer and a fourth transformer respectively energized from said phase shifter and having tapped secondaries, the taps of said secondaries being so selected and arranged that in each case one hundred equal steps of voltage are obtainable from each secondary independently; means for applying a desired value of load current to the standard and tested transformer from the power source; a plurality of fixed resistors selectively connected in the circuits of the secondaries of the third and fourth transformers and means for applying their outputs to the current coil along with the difference current, and means for applying one of the quadrature potentials to the potential coil of the detector.



4. Apparatus for testing transformers comprising, in combination: a standard transformer having a secondary winding, terminals for the connection to such apparatus of the secondary winding of a transformer under test, a source of alternating power of nearly constant voltage and variable current for connection to the primary windings of said transformers, a current meter, and circuit connections and switches such that firstly, the secondary windings of the standard transformer and of the transformer under test may be connected together in series relation and to the meter so that it is in parallel relation with both secondary windings whereby either (1) the sum or (2) the difference of the currents flowing in each of said windings may be applied to the meter to cause it to indicate whether the sum or the difference is so applied with the purpose that the transformer under test be reconnected if necessary for such difference current to flow either through the meter or through another circuit to be substituted for the meter, and such that after establishment of such difference current flow condition, secondly, the meter may be reconnected in series relation with the said secondary windings while maintaining the same polarity relations in the transformers as firstly established, the combination further including a detector having a current coil adapted for substitution for the meter as firstly connected, means for measuring the two components of the difference current which are, respectively, in phase and in phase-quadrature, with the concurrent value of the primary current, said means

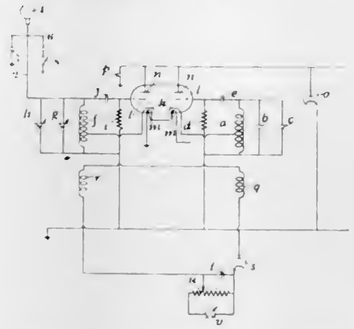
comprising two distinct calibrated sources of current arranged in parallel relation to the current coil and adapted for adjustment to divert the difference current from the path through the current coil.

2,666,896

ELECTRICAL MEANS FOR MEASURING THE THICKNESS OF AN ELECTRICALLY NON-CONDUCTIVE MATERIAL

Percy William Harris, Shirley, Birmingham, England, assignor to M. P. J. Gauge & Tool Company Limited, Erdington, Birmingham, England

Application February 7, 1951, Serial No. 209,772
Claims priority, application Great Britain February 24, 1950
2 Claims. (Cl. 324—61)



1. Gauge for measuring the thickness of electrically non-conducting material comprising, a first thermionic valve oscillator, the frequency of oscillation of which is fixed, a second thermionic valve oscillator the frequency of which is variable manually so as to be capable of being adjusted to the same frequency of oscillation as that of the first oscillator, a circuit including an indicating device coupled to both oscillators to indicate when the oscillators are oscillating at the same frequency and to what extent they differ when they differ in frequency, a standard condenser, means for connecting to and disconnecting the standard condenser from the second oscillator to change its frequency of oscillation by a predetermined amount, and an electrode connected to said second oscillator, which, when brought in contact with the material to be measured, the other side of the material being in contact with an earthed metallic surface, changes the frequency of the second oscillator, the extent of change of said frequency being compared with that produced by the standard condenser to determine the thickness of the material, the standard condenser and means for connecting to and disconnecting the standard condenser being mounted adjacent the electrode in a manually supportable detector head.

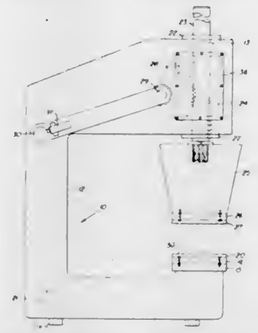
2,666,897

METHOD AND APPARATUS FOR MEASURING MOISTURE CONTENT

Ernest Hobart Collins, Kelso, Wash., assignor to Weyerhaeuser Timber Company, Longview, Wash., a corporation of Washington

Application June 28, 1948, Serial No. 35,583
14 Claims. (Cl. 324—65)

1. The method of determining low values of moisture content of a low-conductive, water absorbent material in a solid state comprising presenting a pair of electrodes to the material in spaced relation, applying a weight to said electrodes and material to hold the electrodes and material in contact with predetermined force which is insufficient to compress the material



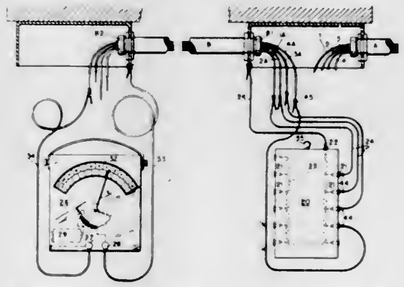
to a substantially greater density, applying heat to the material between said electrodes to raise the temperature of said material to at least approximately 300° F., and measuring the conductance of the material between the electrodes.

2,666,898

METHOD AND MEANS FOR FACILITATING CONNECTING ELECTRIC MULTI-CONDUCTORS

Odd Modulf Meldal, Portland, Oreg.

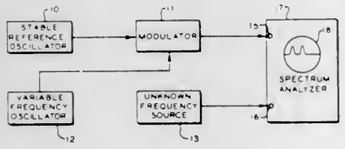
Application July 3, 1951, Serial No. 235,063
2 Claims. (Cl. 324—66)



1. A device of the character described for ascertaining the ends of each individual wire of an electric multiconductor at the opposite ends of the multiconductor, said device including the combination of a resistor assembly adapted to be set up at one end of said multiconductor, a cooperating resistance indicator adapted to be set up at the other end of said multiconductor to establish a circuit with said resistor assembly through the intermediary of said multiconductor, and electric current producing means for the established circuit, said resistor assembly and said resistance indicator each having one terminal adapted to be connected to a common ground connection, means for temporarily connecting said resistor assembly terminal and means for temporarily connecting said resistance indicator terminal to said common ground connection, a plurality of contact terminals in said resistor assembly connected with said first mentioned terminal in said resistor assembly through resistance elements providing respectively different amounts of resistance to the passage of current between said first mentioned terminal and said contact terminals, means for temporarily connecting said contact terminals with the adjacent

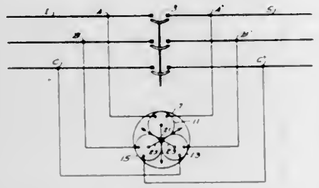
ends of the wires in said multiconductor respectively, means for connecting the other terminal of said resistance indicator successively to the ends of the wires of said multiconductor adjacent said resistance indicator, and an indicator scale on said resistance indicator marked to correspond to the relative amounts of resistance provided in said resistor assembly between said first mentioned resistor terminal and said other contact terminals respectively.

2,666,899
ELECTRONIC FREQUENCY VERNIER
Louis D. Smullin, Detroit, Mich.
Application May 1, 1946, Serial No. 666,220
8 Claims. (Cl. 324—79)



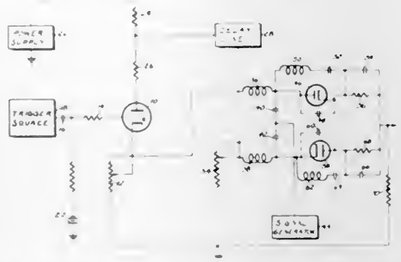
1. Apparatus for measuring an unknown frequency comprising, a stable reference oscillator, a calibrated variable frequency oscillator, a modulator, said variable frequency oscillator and said modulator cooperating to produce amplitude modulation of the output of said reference oscillator, and means for indicating coincidence between a known sideband frequency thus produced and said unknown frequency.

2,666,900
SYNCHROSCOPE
Herbert T. Rights, New Brunswick, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 21, 1948, Serial No. 10,101
4 Claims. (Cl. 324—91)



1. Apparatus for indicating the phase relationship between two, three-phase systems comprising three electrical measuring instruments with indicators, each electrical measuring instrument being connected between the two, three-phase systems, the first one of the electrical measuring instruments being responsive to a difference in voltage between corresponding phases of the two, three-phase systems, a second one of the electrical measuring instruments being responsive to a difference in voltage between other differing phases of the two, three-phase systems, and a third one of the electrical measuring instruments being responsive to a difference in voltage between differing remaining phases of the two, three-phase systems, the indicators associated with the electrical measuring instruments traversing a common dial and overlapping to define a triangle when one or more of the electrical measuring instruments is energized.

2,666,901
PULSE MODULATOR
Howard F. Lynn, Detroit, Mich., assignor to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware
Application November 29, 1951, Serial No. 258,798
9 Claims. (Cl. 332—9)



1. A pulse modulator, including, means for forming a positive pulse having a predetermined duration, means for simultaneously forming a negative pulse having characteristics corresponding to the positive pulse, means for mixing with the positive and negative pulses continuous signals having a relatively high frequency, first gating means for passing only the positive portion of each high frequency signal during the formation of the positive pulse, second gating means for passing only the negative portion of each high frequency signal during the formation of the negative pulse, and means for mixing the gated signals to produce a carrier frequency pulse.

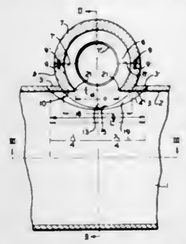
2,666,902
FREQUENCY MODULATOR TRANSISTOR CIRCUITS
Leslie L. Koros, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1950, Serial No. 171,326
12 Claims. (Cl. 332—29)



1. A circuit for varying the frequency of a tuned circuit comprising a semi-conductor device including a semi-conducting body, a base electrode, an emitter electrode and a collector electrode in contact with said body, means for applying operating potentials to said electrodes including a source of potential and an impedance element serially connected between said base and collector electrodes, means for applying a signal effectively between said emitter and base electrodes, a tuned circuit, and means connected serially with the collector-base electrode path of said semi-conductor device for coupling said tuned circuit to said collector electrode, whereby said signal source varies the frequency of said tuned circuit in accordance with said signal.

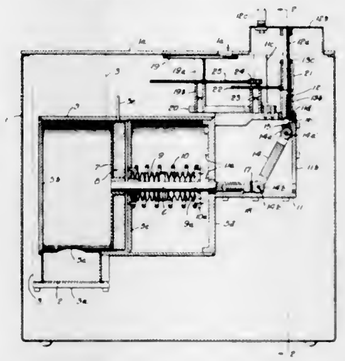
2,666,903
CAVITY COUPLING TO WAVE GUIDE
Clarence W. Jones, Boston, Mass.
Application September 20, 1945, Serial No. 617,583
10 Claims. (Cl. 333—24)

4. In combination, a rectangular wave guide joined to a cylindrical cavity resonator, said wave guide and said cavity resonator having a mutual opening of substantially rectangular cross section formed therebetween, said opening lying in a



chordal plane of said cylindrical cavity resonator, which plane includes the inner surface of a wall of said wave guide.

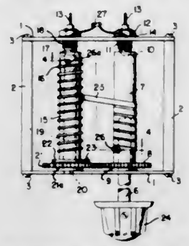
2,666,904
MICROWAVE FREQUENCY METER
Stanley A. Johnson, New York, N. Y., assignor to Polytechnic Research and Development Company Incorporated, Brooklyn, N. Y., a corporation of New York
Application May 28, 1948, Serial No. 29,910
8 Claims. (Cl. 333—83)



1. A frequency meter of the cavity resonator type adapted to sustain electromagnetic wave oscillations and comprising a cylinder having a movable piston mounted therein, a screw for adjusting said piston, and a variable speed transmission device controlled by the axial movement of said screw for moving said piston in a progressively decreasing amount for a given extent of rotation of said screw as said transmission device moves said piston from a position of low frequency to a position of high frequency.

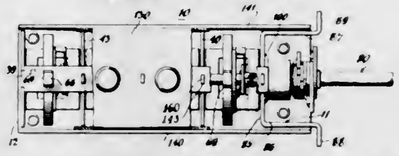
2,666,905
TUNING DEVICE
Carl F. Gerlach, Chicago, Ill., assignor to The Triplett Electrical Instrument Company, Bluffton, Ohio, a corporation of Ohio
Application June 24, 1950, Serial No. 170,157
5 Claims. (Cl. 336—15)

1. A tuning device comprising parallelly disposed panels, a pair of parallelly disposed cylindrical drums rotatably mounted between said panels, intermeshing gears secured to the ends of said drums, and means for rotating the drums in opposite directions including a hand knob fixed to one of said drums, a continuous length of flat bare wire wound on said drums and spanning the distance between the drums, said drum to which the hand knob is secured having a metallized surface which contacts with the flat surface of the surrounding turns of wire, and the adjacent drum being constituted of insulating material, and means on one of said drums for equidistantly spacing the turns of wire along each



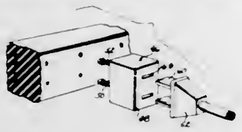
of said drums, whereby as said knob is rotated the number of turns of wire on said drums is changed in the inverse relation to the change in the inductance of the wire on the insulating drum, but the total overall length of wire on the two drums remains the same.

2,666,906
SPIRAL TUNER
Robert J. Aust, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application April 18, 1950, Serial No. 156,595
7 Claims. (Cl. 336—139)



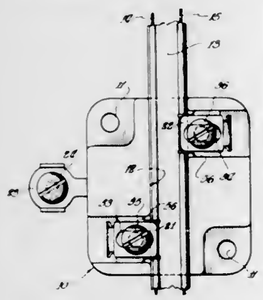
1. A variable inductance tuning device having a base plate including a plurality of individual rectangular cut-out portions, a plurality of inductance tuning elements therefor, each of said elements including a terminal base fittable within each of said cut-out portions, said base having a configuration such that a portion of its thickness forms an upper level having a cross-sectional diameter greater than that of said cut-out portion, with said lower part of said thickness adapted to be snugly fitted within said cut-out portion and to penetrate said base plate whereby a shoulder is formed on said terminal base adapted to situate the same on the inside surface of said plate, a plurality of slots cut in said lower portion of said thickness, a flat insulative coil form having a circular cross-section and an integrally formed extension depending therefrom, said extension forming a pair of shoulders with said circular cross-section, said shoulders adapted to separably rest on said first shoulders of said terminal base with said extension falling within one of said slots so as to hold said coil form in a tight substantially perpendicular manner on said terminal base within said cut-out portions of said base plate, said inductance tuning elements each comprising a flat, ribbon conductor having an edge retained by said coil form so as to support said conductor in an edgewise fashion, a plurality of terminals connected to the ends of said conductor adapted to penetrate other of said slots cut in the said terminal base, and means for varying the electrical length of the conductor between said terminals so as to determine the amount of inductance in said tuning device.

2,666,907
CONTINUOUS ELECTRICAL OUTLET
Robert K. Hensley, Jr., Silver Spring, Md.
Application March 31, 1950, Serial No. 153,087
3 Claims. (Cl. 339—22)



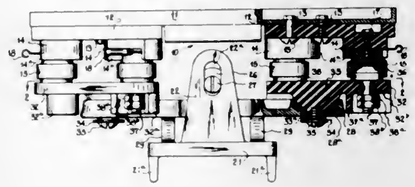
1. In combination with an elongated outlet section of flexible insulative material adapted to be superimposed on a supporting surface and having an inner wall engaging such surface and an outer wall spaced from the surface, said outlet section also having conductor strips with flat outer faces facing the outer wall of the outlet section embedded therein and having pairs of transverse openings communicating with the strips and extending through the outer wall, a plug cooperating with the outlet section and comprising a body of insulative material, a pair of electrical conductor prongs embedded in the body and extending therefrom, said prongs being of a cross-sectional shape and size equal to the openings in the outlet section, an enlarged free end on each prong having a flat free face bearing on the strips and a locking shoulder of enlarged size adapted to engage the bounding walls of the openings.

2,666,908
LIGHTNING ARRESTER
Curt W. Klostermann, Chicago, Ill., assignor to American Phenolic Corporation, Chicago, Ill., a corporation of Illinois
Application May 12, 1950, Serial No. 161,647
3 Claims. (Cl. 339—97)



1. In an electrical apparatus, in combination, a terminal body consisting of a solid unitary block of dielectric plastic material, with a relatively wide shallow channel extending across one exterior surface of the block and adapted to receive a length of twin-lead radio frequency transmission line, together with a pair of metallic terminal inserts disposed on opposite sides of the channel from each other and of substantially identical shape but oppositely oriented with respect to each other; each of said inserts including an upright portion imbedded in the block at a point spaced from the channel therein, with a lower branch extending inwardly toward and under said channel; each of said terminal inserts also including an exposed metallic contact strip above the surface of the block and extending inwardly from the upright portion of the insert to a point overlapping one edge of said channel; and a clamping screw positioned between said channel and the upright portion of said insert; said clamping screw engaging said exposed metallic contact strip and extending through an aperture in the dielectric and screw threaded into the lower branch of the insert, whereby the contact strips of the inserts may be clamped against the opposite edges of a transmission line disposed in the channel of the dielectric block.

2,666,909
MULTIPLE CONTACT LAMP HANGER
Robert K. Farrington, Shaker Heights, Thayer B. Farrington, Cleveland Heights, and Richard F. Kurzenberger, Cleveland, Ohio, assignors to The Thompson Electric Company, Cleveland, Ohio, a corporation of Ohio
Application September 15, 1950, Serial No. 184,954
4 Claims. (Cl. 339—135)

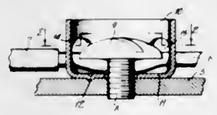


4. In the combination of a plurality of fixed electrical contacts and a plurality of movable electrical contacts adapted to mate with the fixed electrical contacts respectively, movable lamp hanger contact supporting means comprising bracket means, a lever having a pivotal mounting on said bracket means intermediate the end of said lever, a pair of insulator blocks positioned one at each end of said lever, each end of said lever having a ball and socket connection with its associated insulator block including coacting ball and socket parts on said lever and said insulator block, three contacts carried by each said insulator block and adapted to mate with coacting fixed contacts, each pair of mating contacts having coacting convex and concave mating surfaces respectively, said ball and socket connection being located within the triangle defined by said three contacts, a non-circular projection on each of said ball parts, there being a non-circular opening through each of said socket parts adapted to receive one of said non-circular projections loosely, means securing each coacting ball and socket part against separation, said loosely fitting projection and associated opening permitting insufficient movement of said movable contacts out of mating engagement with said fixed contacts, means providing approximate vertical alignment between said fixed and movable contacts, and means for retaining said mating contacts in engagement.

2,666,910
SOLDERLESS TERMINAL
Herman J. Hammerly, Plainville, Conn., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application December 19, 1950, Serial No. 201,667
1 Claim. (Cl. 339—249)

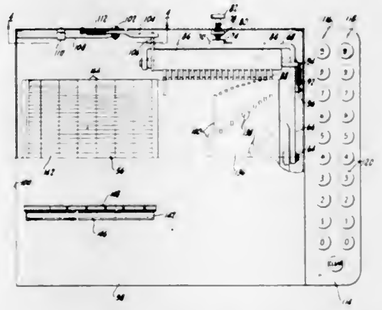
A solderless connector for electrically and mechanically connecting a wire conductor to a conducting terminal plate having a screw-threaded opening comprising a cup-shaped member having a flat bottom wall with a central

guide opening therein, and a side wall having at least one pair of opposed wire receiving apertures between the upper edge of the side wall and said bottom wall, the bottom edges of the apertures and said bottom wall, the bottom edges of the being disposed above said bottom wall and forming ledges, a screw having its slotted head lying wholly within said cup-shaped member and its shank portion extending freely through the opening in said bottom wall into threaded engagement with said threaded opening in the terminal plate, the head of said screw being smaller in outside diameter than the inside diameter of the cup-shaped member and being adapted to



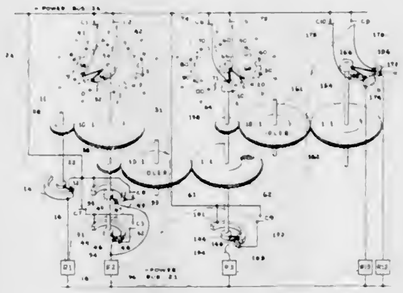
bend and clamp a wire conductor extending across the cup-shaped member and through the openings in the side wall, over the ledges and against the bottom wall of the cup-shaped member, the cup-shaped member being sufficiently deep so that its upper edge protrudes above the slotted head of the screw when the screw is in operative position for guiding a screw driver into its slot and for preventing the screw driver from slipping out of the slot, and detent means interlocking said cup-shaped member with the upper surface of said terminal plate whereby the cup-shaped member is prevented from rotating relative to the terminal plate when the screw is being turned to clamping position.

2,666,911
CHANGEABLE EXHIBITOR
Eugene E. Reynolds, Richmond, Calif., assignor to Marchant Calculators, Inc., a corporation of California
Application January 12, 1948, Serial No. 1,769
11 Claims. (Cl. 340—318)



1. A device of the class described comprising a rotatable member having an indicating portion carrying data in spaced units and a sensing portion provided with a pattern of electrical contacts, a combination of said contacts associated with each unit of data, a stroboscopic light source, and means connected to said pattern and operable to select a combination of said contacts to intermittently energize said light source during rotation of said member when the unit of data associated with said combination is in a predetermined position.

2,666,912
ELECTRICAL COUNTER
Kenneth P. Gow, Pasadena, and Arthur L. Klein, Los Angeles, Calif., assignors to California Institute Research Foundation, Pasadena, Calif., a corporation of California
Application May 16, 1950, Serial No. 162,305
6 Claims. (Cl. 340—345)

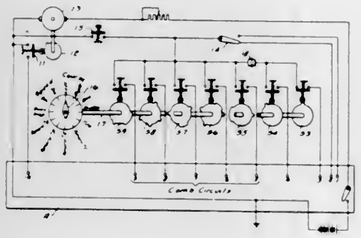


1. An electrical counter for digitally translating shaft rotations into electrical impulses including an input shaft, a second shaft geared thereto, a plurality of fixed output contacts, a pair of rotating contacts carried by the second mentioned shaft and adapted to successively engage the said fixed output contacts, a third shaft geared to the said second shaft, a second plurality of fixed output contacts, a second pair of rotating contacts carried by the said third shaft and adapted to successively engage the second plurality of fixed output contacts, a binary commutator on said input shaft and second shaft, a relay operated by each binary commutator to determine which of the pair of rotating contacts on the succeeding shaft is energized during transition of said rotating contacts from one fixed output contact to the next, relays operated through said output contacts, and a plurality of make and break contacts operated by the said relays according to the angular position of the said shafts whereby a digitized count in the form of electrical impulses representative of the angular position of the said input shaft is provided.

2,666,913
CONTROL SYSTEM
Walter Schaelchlin, Buffalo, and Amos J. Winchester, Jr., Lockport, N. Y., and John C. Ponstingl, Parma, Ohio, assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Original application November 21, 1946, Serial No. 711,428, now Patent No. 2,551,972, dated May 8, 1951. Divided and this application April 28, 1950, Serial No. 158,832
4 Claims. (Cl. 340—351)

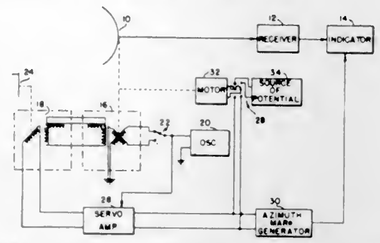
1. In a radio control system for the remote operation of a ship or the like having multiple operations to be performed thereon, a radio transmitter having a plurality of transmitting channels including at least two master control channels and a timing signal channel, each of said channels being operative to transmit a distinctive control signal, a timing means operative to periodically energize said timing channel whereby a distinctive and regularly occurring timing signal is produced, means for selecting different combinations of said transmitting

channels for simultaneous operation thereof including a master selector switch and a first series of switches interposed in the circuits of said transmitting channels, a single operating member movable to different positions for actuating selected combinations of said first series of switches, relay means responsive to the energization of said switches and operative to render selected transmitting channels operative, dial means in the circuit of a pair of said transmitting channels whereby distinctive control signals



may be periodically and selectively produced, a second series of switches, an operating lever for said second series of switches mechanically linked to said single operating member and operable to selectively energize said second series of switches, individual electromagnetic indicating means in the circuit of each of said second series of switches and a portion of said relay means, said indicating means being operative to indicate the particular transmitting channels energized at any one time.

2,666,914
RADIO COURSE INDICATING SYSTEM
Britton Chance, Cambridge, and Ivan A. Greenwood, Jr., Boston, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application February 18, 1946, Serial No. 648,532
5 Claims. (Cl. 343—5)

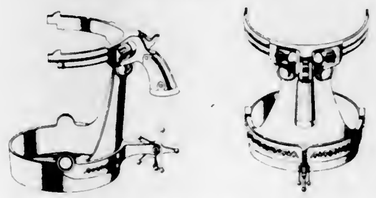


4. The combination with the receiver of a radio object locating system located on a moving craft and having at least a receiving antenna rotatable in azimuth and an indicator, means for rotating said antenna in azimuth, means for providing a sinusoidal signal in accordance with the azimuthal position of the antenna, means for initially phasing a node of said sinusoidal signal in time coincidence with the ground track position of the antenna, means connected to said signal providing means for shifting the phase of said sinusoidal signal by 90°, and means for applying said phase shifted signal to said indicator to supply an azimuth mark signal for said indicator in response to the nodes of said phase shifted signals whereby an azimuth mark indication may be obtained at right angles to said ground track position of the antenna.

DESIGNS

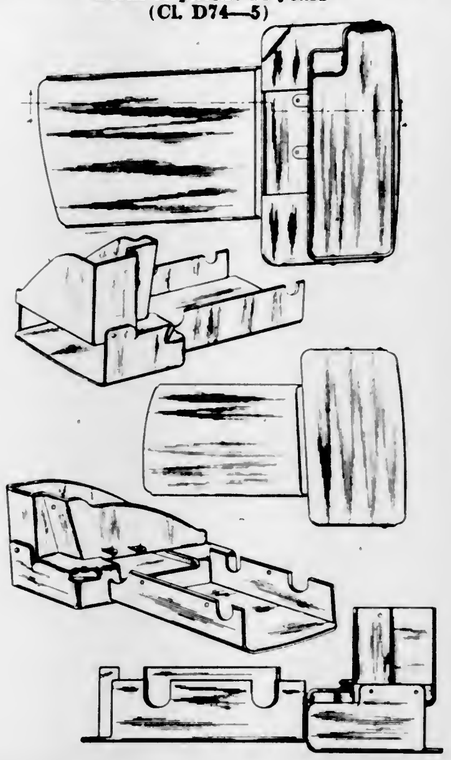
JANUARY 19, 1954

171,287
COMBINED RECEPTACLE HOLDER AND COASTER
Cruz R. Alvarez, Mesilla, N. Mex.
Application June 2, 1953, Serial No. 25,290
Term of patent 14 years
(Cl. D44—10)

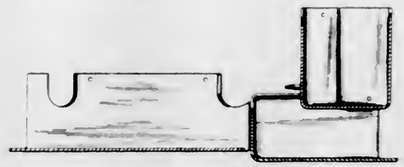


The ornamental design for a combined receptacle holder and coaster, as shown.

171,288
DESK TRAY
William James Bargen, Waukegan, Ill.
Application March 24, 1953, Serial No. 24,186
Term of patent 14 years
(Cl. D74—5)

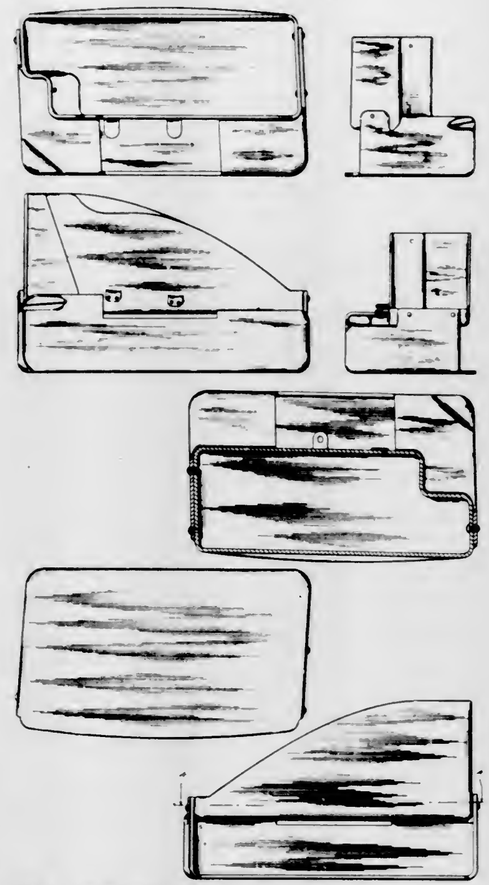


171,288—Continued



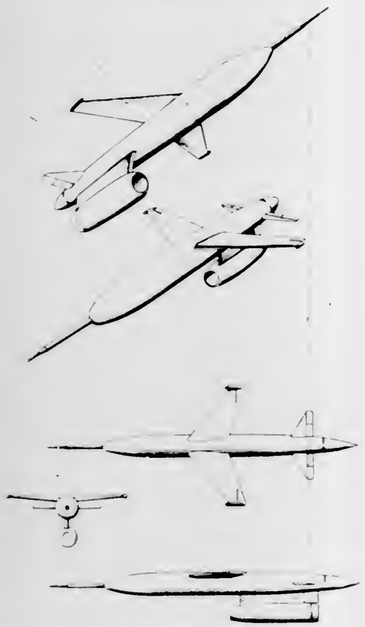
The ornamental design for a desk tray, as shown.

171,289
DESK TRAY
William James Bargen, Waukegan, Ill.
Application March 24, 1953, Serial No. 24,188
Term of patent 14 years
(Cl. D74—5)



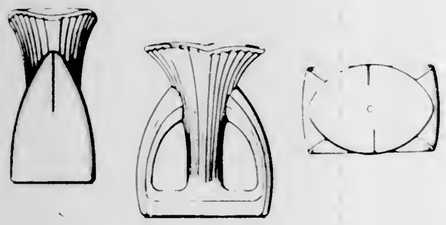
The ornamental design for a desk tray, as shown.

171,290
REMOTELY CONTROLLED AIRPLANE
William B. Bergen, Glenarm, John Donald Rauth, Middle River, Leonard M. Michal, Essex, and Welcome W. Bender, Glenarm, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application November 25, 1949, Serial No. 6,238
Term of patent 14 years
(Cl. D71—1)



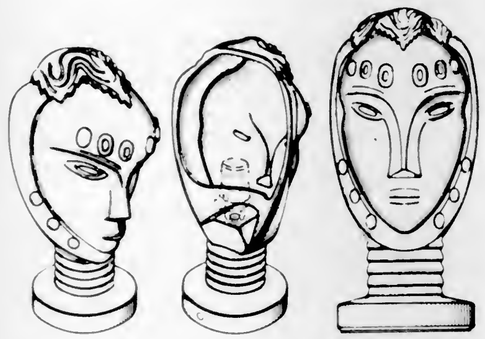
The ornamental design for a remotely controlled airplane, as shown.

171,291
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill., assignor to Bradley Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 29, 1953, Serial No. 25,691
Term of patent 3½ years
(Cl. D48—20)



The ornamental design for an electric lamp base, substantially as shown and described.

171,292
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill., assignor to Bradley Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 28, 1953, Serial No. 26,166
Term of patent 3½ years
(Cl. D48—20)



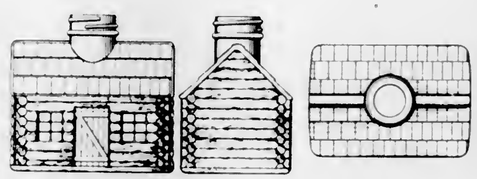
The ornamental design for an electric lamp base, substantially as shown and described.

171,293
GUIDED MISSILE
William Hunter A. Boyd, Kensington, Md.
Application May 6, 1949, Serial No. 2,503
Term of patent 3½ years
(Cl. D71—1)



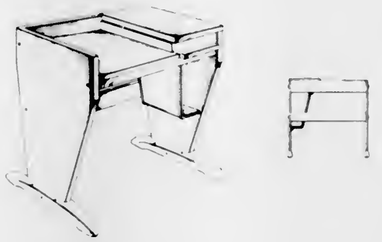
The ornamental design for a guided missile, substantially as shown and described.

171,294
BOTTLE
Julius Braun, Chicago, Ill.
Application July 13, 1953, Serial No. 25,892
Term of patent 14 years
(Cl. D58—9)



The ornamental design for a bottle, substantially as shown and described.

171,295
TYPEWRITER TABLE
Arthur W. Carlson, Muskegon, Mich., assignor to E. H. Sheldon & Co., Muskegon, Mich., a corporation of Michigan
Application July 7, 1953, Serial No. 25,819
Term of patent 14 years
(Cl. D33—14)



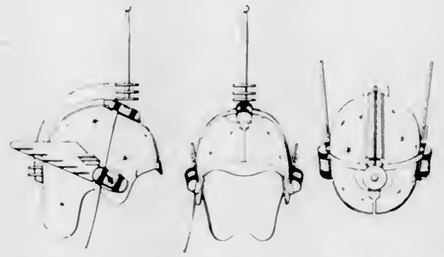
The ornamental design for a typewriter table, substantially as shown.

171,296
BRACELET LINK
Theodore E. Cayer, Taunton, Mass.
Application September 15, 1953, Serial No. 26,81
Term of patent 3½ years
(Cl. D45—4)



The ornamental design for a bracelet link, substantially as shown.

171,297
HELMET
Vladimir A. d'Arbeloff, Riverside, Conn.
Application March 19, 1953, Serial No. 24,122
Term of patent 7 years
(Cl. D3—13)



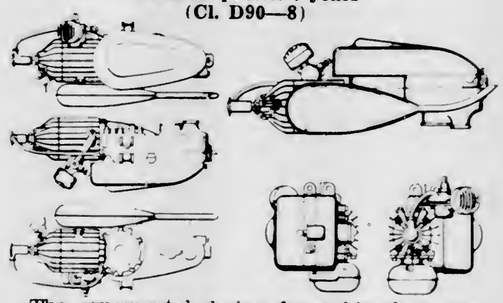
The ornamental design for a helmet, substantially as shown and described.

171,298
BOX
Christy M. Del Mas, New York, N. Y., assignor to Michael P. Grace, New York, N. Y.
Application May 11, 1953, Serial No. 24,950
Term of patent 14 years
(Cl. D58—12)



The ornamental design for a box, as shown and described.

171,299
BICYCLE MOTOR
Soichiro Honda, Toshima-ku, Tokyo, Japan
Application March 17, 1953, Serial No. 24,060
Term of patent 7 years
(Cl. D90—8)



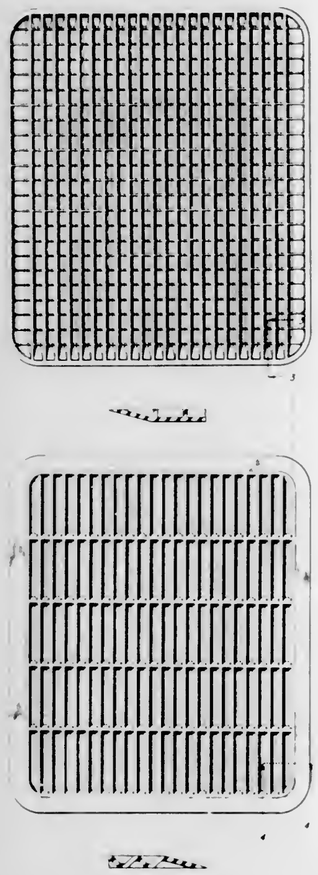
The ornamental design for a bicycle motor, substantially as shown.

171,300
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,981
Term of patent 7 years
(Cl. D45—9)



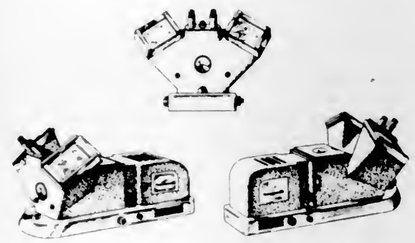
The ornamental design for an earring or the like, substantially as shown.

171,301
REVERSIBLE FLOOR MAT
Thomas C. Kravitz, University Heights, Ohio, assignor to Anchor Rubber Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application June 13, 1952, Serial No. 20,177
Term of patent 14 years
(Cl. D9—6)



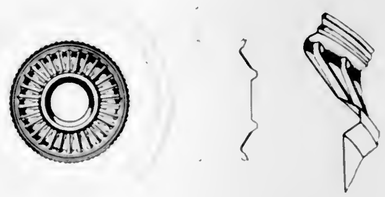
The ornamental design for a reversible floor mat, substantially as shown.

171,302
MICROSCOPE
Ludwig Leitz, Laufdorfweg, Wetzlar, and Heinrich Klemann, Burgsolms, Germany, assignors to Ernst Leitz, G. m. b. H., Wetzlar/Lahn, Germany, a corporation of Germany
Application May 4, 1953, Serial No. 24,848
Term of patent 14 years
(Cl. D57—1)



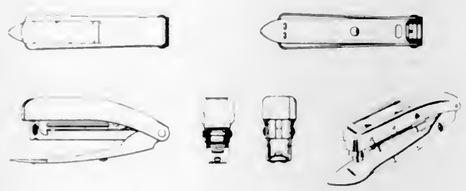
The ornamental design for a microscope, as shown.

171,303
WHEEL COVER OR SIMILAR ARTICLE
George Albert Lyon, Detroit, Mich.
Application April 17, 1953, Serial No. 24,553
Term of patent 14 years
(Cl. D14—30)



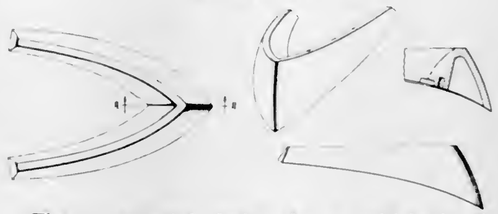
The design for a wheel cover or similar article, substantially as shown and described.

171,304
COMBINED STAPLER AND STAPLE REMOVER
Herbert W. Marano, Summit, N. J., assignor to Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts
Application June 25, 1953, Serial No. 25,654
Term of patent 14 years
(Cl. D74—1)



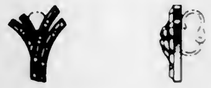
The ornamental design for a combined stapler and staple remover, as shown.

171,305
VEHICLE HOOD ORNAMENT
Theodore Ornas, Jr., Fort Wayne, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application March 4, 1952, Serial No. 18,769
Term of patent 7 years
(Cl. D14—18)



The ornamental design for a vehicle hood ornament, substantially as shown.

171,306
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 1, 1953, Serial No. 24,806
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,307
PIVOTED TRAY HOLDER
George H. Philp, Wheatridge, Colo.
Application November 12, 1952, Serial No. 22,233
Term of patent 14 years
(Cl. D44—29)



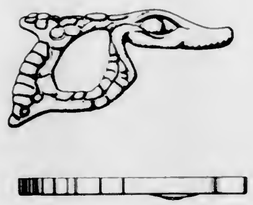
The ornamental design for a pivoted tray holder, as shown.

171,308
HAMMER HEAD
Jacob Sackstein, Portsmouth, Va.
Application July 23, 1953, Serial No. 26,109
Term of patent 7 years
(Cl. D93—4)



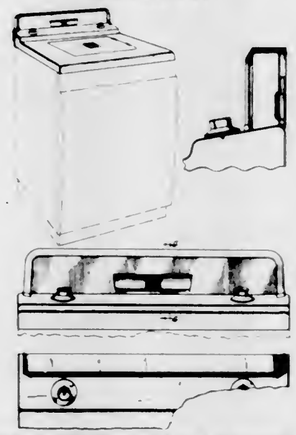
The ornamental design for a hammer head, as shown.

171,309
TOOL HANDLE
Jacob Sackstein, Portsmouth, Va.
Application July 23, 1953, Serial No. 26,112
Term of patent 7 years
(Cl. D93—4)



The ornamental design for a tool handle, as shown.

171,310
LAUNDRY MACHINE
Ray C. Sandin, Northbrook, Ill., assignor to General Electric Company, a corporation of New York
Application December 31, 1952, Serial No. 22,953
Term of patent 14 years
(Cl. D49—1)



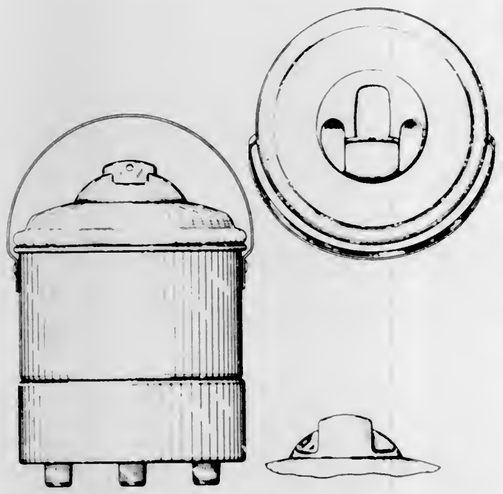
The ornamental design for a laundry machine, substantially as shown and described.

171,311
MONEY CLIP
William B. Schaefer, Cincinnati, Ohio
Application February 3, 1953, Serial No. 23,409
Term of patent 3½ years
(Cl. D17—3)



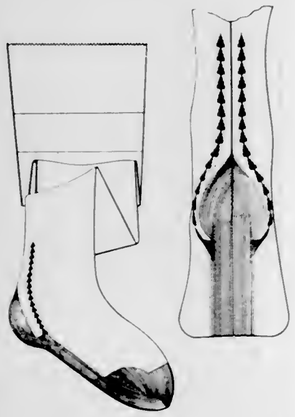
The ornamental design for a money clip, as shown.

171,312
ELECTRIC VAPORIZER
Joy B. Schmitt, Somerset, Pa., and Alvin J. Attinger, Toledo, Ohio, assignors to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application May 20, 1953, Serial No. 25,118
Term of patent 14 years
(Cl. D83—1)



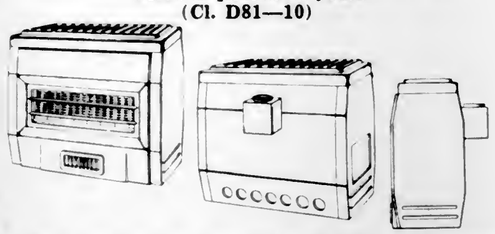
The ornamental design for an electric vaporizer, as shown and described.

171,313
LADY'S STOCKING
David H. Setzer, Valdese, N. C., assignor to Waldensian Hosiery Mills, Incorporated, Valdese, N. C., a corporation of North Carolina
Application June 23, 1952, Serial No. 20,309
Term of patent 14 years
(Cl. D47—7)



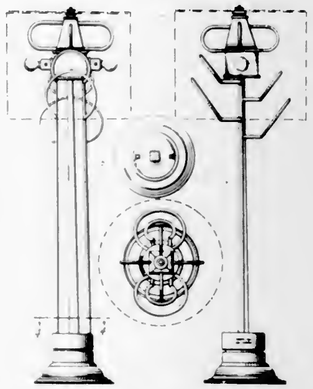
The ornamental design for a lady's stocking, substantially as shown.

171,314
GAS FIRED SPACE HEATER
Eugene G. Siegler and Raymond J. Siegler, Marion County, Ill.
Application March 19, 1953, Serial No. 24,101
Term of patent 14 years
(Cl. D81—10)



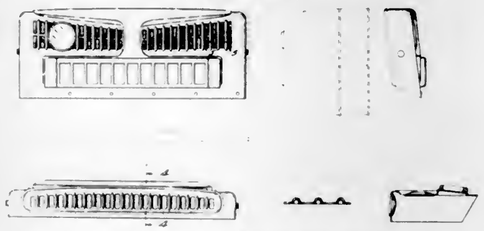
The ornamental design for a gas fired space heater, substantially as shown.

171,315
COMBINATION LAMP AND TELEVISION ANTENNA
Clarence Baker Story, Savage, Md., assignor of one-half to Joseph Kolodny, Baltimore, Md.
Application January 12, 1953, Serial No. 23,095
Term of patent 7 years
(Cl. D48—20)



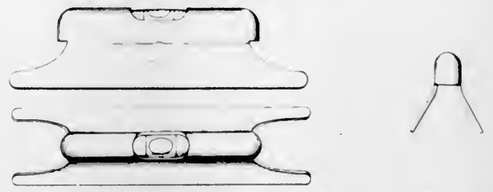
The ornamental design for a combination lamp and television antenna, as shown and described.

171,316
ACCORDION GRILL
Dorothy K. Traficante, Minneapolis, Minn.
Application October 22, 1953, Serial No. 27,290
Term of patent 14 years
(Cl. D56—1)



The ornamental design for an accordion grill, substantially as shown and described.

171,317
SPIRIT LEVEL
Harrison M. Von Duyke, Wilmington, Del., assignor to Modern Products Manufacturing Corporation, Wilmington, Del., a corporation of Delaware
Application June 29, 1953, Serial No. 25,715
Term of patent 14 years
(Cl. D52—6)



The ornamental design for a spirit level, as shown.

171,318
POWER LAWN MOWER
George A. Wegele, Otis, Kans.
Application June 3, 1953, Serial No. 25,310
Term of patent 14 years
(Cl. D40—1)



The ornamental design for a power lawn mower, as shown and described.

January 26, 1954 Volume 678 Number 4

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business December 31, 1953

Total number of patent applications awaiting action, 107,792. Date of oldest new application, February 10, 1953; date of oldest amended application, February 18, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	4-2-53	4-2-53	1431
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	3-24-53	3-27-53	1313
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Compositions (part).	4-22-53	4-20-53	2060
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	4-8-53	4-1-53	1591
5. ROBINSON, C. W., Harvesters; Harrows and Diggers (part); Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates.	4-7-53	4-10-53	1423
6. SURLE, H., Natural Resins; Proteins; Heterocyclic; Amides; Amines; General Organic Processes	3-2 53	3-2-53	2191
7. GONSALVES, J. E., Optics; Photography (part)	3-10-53	3-10-53	1916
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	4-21-53	4-21-53	1447
9. BRANSON, J. H., Pumps: Fans; Turbines	4-1-53	4-1-53	1261
10. Abolished as of November 16, 1953. See Commissioner's Administrative Order No. 45.			
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching. Cutlery; Cleaning and Liquid Treatment of Solids.	4-15-53	4-13-53	1252
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches; Interrelated Clutch and Motor or Transmission Controls.	4-6-53	4-7-53	1868
13. BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Forging and Welding, Plastic Working, Drawing, Sawing, Milling, Planing, Turning.	3-18-53	3-18-53	1321
14. MANIAN, J. C., Metal Working (part)—e. g., Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes.	4-13-53	4-13-53	1529
15. BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass	4-6-53	4-6-53	1782
16. LOVEWELL, N. N., Television: Telephony; Recorders	3-2-53	3-2-53	1854
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	3-23-53	4-1-53	1518
18. KURZ, J. A., Power Plants; Speed Responsive Devices; Brakes	4-2-53	3-23-53	1401
19. PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners	3-6-53	3-4-53	1094
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking.	4-24-53	4-23-53	1227
21. MADER, R. C., Textiles	4-2-53	4-3-53	1283
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling.	4-20-53	4-16-53	1226
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	3-20-53	3-6-53	1093
24. DRACOPOULOS, P. T., (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	6-4-53	6-8-53	1095
25. NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus.	5-1-53	5-1-53	1439
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	4-3-53	4 7-53	2018
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	4-22-53	4-21-53	1283
28. BRAUNER, R H., Steam and Internal Combustion Engines; Fluid Servo-Motors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers: Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes.	4-28-53	4-20-53	1449
29. HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers.	4-8-53	4-3-53	1362
30. BISHOFF, A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidostats; Illuminating Burners; Doors and Windows; Fluid Sprinkling, Spraying and Diffusing.	6-1-53	6-1-53	1545
31. HUTCHINSON, E. W., Mineral Oils; Urea Adducts; Silicon Containing Carbon Compounds; Hydrogenation of Carbon Oxides; Partial Oxidation of Non-Aromatic Carbon Mixtures.	3-17-53	3-12-53	1936
32. BERMAN, H., Gas and Liquid Carburetors; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.	4-27-53	4-27-53	1470
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	3-26-53	3-23-53	2043
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	3-13-53	3-10-53	1353
35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet; Kitchen and Table Articles	4-14-53	4-3-53	1504
36. McFADYEN, A. D., Measuring and Testing	4-9-53	4-8-53	1089
37. LEVY, M. L., Electricity—Switches, Welding, Heating	5-4-53	4-27-53	1876
38. MARMELSTEIN, N., Lignins; Azo; Carbohydrate; Carbocyclic or Acyclic Compounds (part), e. g., Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Hydroxy.	3-18-53	3-20-53	2121
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	5-1-53	5-1-53	1575
40. DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages	5-4-53	5-5-53	2215

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	4-13-53	4-10-53	1811
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Connectors.	4-2-53	4-3-53	1765
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	3-11-53	3-16-53	1999
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	4-20-53	4-16-53	1277
46. O'LEARY, R. A., Abolished as of January 4, 1954. See Commissioner's Administrative Order No. 46 (O. G.).	3-26-53	3-26-53	1183
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	4-6-53	4-6-53	1599
48. BERNSTEIN, S., Electricity; Electrical Conversion Systems, Measuring and Testing (part), Ignitors, Adjustable Induction Devices.	3-12-53	3-16-53	1916
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	4-13-53	4-9-53	1451
50. BENGEL, W. G., Synthetic Resins; Rubber	5-18-53	5-18-53	2121
51. YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators, Modulators; Duplex or Multiplex Radio Communication; Piezoelectric Crystal Devices; Music.	4-7-53	4-3-53	1598
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	5-6-53	5-6-53	1891
53. REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Metal Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.	4-3-53	4-6-53	1687
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits, Ray Energy Applications.	3-30-53	4-8-53	1940
55. KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors.	3-2-53	3-9-53	1701
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	5-4-53	5-4-53	1442
57. MILLER, A. B., (DURHAM, B. G., Acting), Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	4-27-53	4-16-53	1779
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	4-1-53	4-2-53	1389
59. HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	4-1-53	4-1-53	1562
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	5-4-53	5-28-53	955
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	4-14-53	4-20-53	1916
63. WINKELSTEIN, A. H., Foods and Beverages; Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part).	3-23-53	3-20-53	2030
64 GORECKI, G. A., Fuels and Miscellaneous Compositions	4-2-53	4-2-53	1826
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, L., Geometric Instruments; Automatic Weighers; Weighing Scales; Acoustics	4-14-53	4-20-53	1156
67. KRAFFT, C. F., Laminated Fabric; Photographic Processes and Products; Ornamentation; Paper Making.	4-30-53	4-10-53	1719
68. Abolished as of November 2, 1953. See Commissioner's Administrative Order No. 44.			
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Electrical Conductors, Insulators and Conduits.	4-3-53	4-3-53	1672
70. BREWRINK, J. L., Guns and Torpedoes; Explosive Charge Making; Electrical Directional and Distance Instruments; Radio Antennae; Radar; Actinide Compounds; Explosive Compositions; Mass Spectrometers.	2-10-53	2-18-53	3749
DESIGNS: A—BREHM, G. L., Industrial Arts	7-6-53	7-9-53	1279
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	8-5-53	9-11-53	925

Number of new applications received week ending December 11, 1953

PATENTS 1,437 DESIGNS 94 REISSUES 8 TOTAL 1,539

Total number of trade-mark applications awaiting action (including renewals and republications), 12,560.
Date of oldest new application, August 1, 1953; date of oldest amended application, August 1, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	8-1-53	8-1-53	3041
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	8-1-53	8-1-53	3045
Renewals (All Classes)	10-16-53	11-25-53	488
Republications (All Classes)	10-26-53	12-1-53	213
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	8-3-53	8-3-53	2851
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	8-3-53	8-3-53	2922

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

GALLAGHER ET AL *v.* SMITH

No. 5980. Decided June 24, 1953. Petition for rehearing denied September 28, 1953

[206 F.2d 939; 99 USPQ 132]

1. INTERFERENCES — PRIORITY OF INVENTION — DETRIMENTAL ACTS BY FIRST INVENTOR MAY PRECLUDE AWARD OF PRIORITY.

Rule restated that although "the law favors and seeks to reward the first inventor of a patentable device, it does not do so in blind disregard of a proper showing of acts detrimental to the purpose and spirit of such law which are sufficient to defeat that inventor's right to be adjudged as entitled to priority."

2. SAME—SAME—DELAY IN FILING ALONE NOT SUFFICIENT TO DEFEAT THE FIRST INVENTOR.

Rule restated that "mere delay in filing will not suffice, in itself, to defeat the rights of the first inventor."

3. SAME—SAME—SUPPRESSION AND CONCEALMENT OF AN INVENTION MUST BE AFFIRMATIVELY PROVED.

Held that a party seeking to succeed by invoking the doctrine of equitable estoppel, based on suppression and concealment of an invention following its reduction to practice, must affirmatively establish that the elements of concealment and suppression are present in the particular facts under consideration and such proof cannot be supplied by improper over-indulgence in conclusions warped by undue presumptions and inferences.

4. SAME—SAME—DOCTRINE OF EQUITABLE ESTOPPEL—REQUIRED PROOF.

Held that evidence that the party alleged to have concealed or suppressed an invention was incited to activity as a result of being apprised that a rival had entered the field is not an absolute prerequisite to proper application of the doctrine of equitable estoppel and the latter may be applied in a proper case where the proof indicates deliberate suppression and concealment without more.

5. SAME—SAME—COMBINED CLOCK AND TIME SWITCH.

Priority of invention of certain counts directed to a combined clock and time switch *Held* properly awarded to appellee.

APPEAL from the Patent Office. Interference No. 84,763.

AFFIRMED.

Brown, Jackson, Boettcher & Dienner (Cameron A. Whitsett and *Arthur H. Boettcher* of counsel) for appellants.

Raymond D. Smith, pro se.

COLE, *J.*:

This is an appeal in a patent interference proceeding in which the junior party, the joint inventors Gallagher and Weber, seeks to establish that the Board of Interference Examiners erred in awarding priority of invention as to all counts in issue to the senior party and patentee, Raymond D. Smith.

Recital of events directly leading to the declaration of interference commences with the filing of the Smith application on June 20, 1945, for improvements in a "Demountable Time Switch Unit for Universal Use." Thereafter, on January 26, 1946, the appellants filed a patent application for improvements in an "Automatic Timing Mechanism." During the pendency of the respective applications, the party Smith, by amendment dated August 17, 1948, added the claims involved in this interference to his application. On May 23, 1950, Patent No. 2,508,896, inclusive of the issue claims, was granted to Smith and several months thereafter the appellants copied said issue claims for purposes of interference.

That the counts read on both devices is undisputed. The question for determination here concerns priority of invention. To prevail, the junior party must establish his case by a preponderance of evidence.

Five counts are involved, the first of which is considered illustrative, and reads as follows:

1. In a combined clock and time switch unit completely settable by the use of a single hand of the operator to perform at least two automatic switch actions at selected different times of day, the combination of, a framework, a circuitous scale of time-of-day markings stationed in relation to said framework, a first arcuate signal chart mounted for rotary adjustive movement relatively to said framework through a range of various settings in visible time signalling relation to said scale, a second arcuate signal chart mounted concentrically with said first chart for rotary adjustive movement through a range of various settings relatively to both said first chart and said framework in cooperative time-signalling register therewith, switch action controlling elements operably connected to said charts respectively in a manner to be stationed variously in different switch timing positions with respect to each other and to said framework in accordance with rotary settings of said charts, separate manuals connected to adjust said charts selectively to their said settings, and a brake arranged cooperatively with at least one of said charts and its said manual in a manner to anchor the same yieldably in relation to said frame with sufficient force to hold said one of said charts and its said connected switch controlling element motionless during rotary adjustive movement of the other said chart within its said range.

Vol. 678 • No. 4 Tuesday, January 26, 1954 Price $30.00 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $30.00 per annum, foreign mailing $8.50 additional; single numbers, 75 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

The TRADE-MARK SUPPLEMENT to the OFFICIAL GAZETTE, issued weekly, subscription price, $19.00 per annum; single copies, 45 cents each. DECISION LEAFLETS, subscription price, $3.75 per year; single copies, 10 cents each.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

It is pertinent to note that Gallagher and Weber (hereinafter referred to as appellant) are co-employees of the International Register Company, a manufacturer of mechanisms incorporating clockwork. This company occupies the somewhat unique position of being assignee of appellant's application as well as licensee of certain previously issued Smith patents relating to the latter's early work in the art (Patent Nos. 2,004,137 and 2,032,774) and also licensee of Patent 2,508,896 which embodies the counts of this interference and is the patent here in dispute.

The invention in issue is adequately described by the Board of Interference Examiners in its opinion as follows:

> • • • The devices shown and described in the specification of both parties are time switches, to close and to open an electric circuit at predetermined times of day, the setting of the times of actuation of the switch being indicated on or in connection with a clock face. The devices have in common the provision of two concentrically mounted disc elements cut away in such manner that parts of both may be observed through, or around the clock face. The position of one of these elements serves to determine the time at which the switch closes, and the other the time at which the switch opens. Each of these elements is provided on a periphery, or on an element operatively engaging its periphery, with gear teeth which engage a spur gear on a shaft which projects to the outside of the housing where it is provided with a knob for manual adjustment. Each of the spur gear shafts is provided with a friction device to hold the same against accidental movement, as by being dragged by friction between the disc elements when one of them is shifted in its position. The devices of the two parties differ quite considerably in the mechanism for accomplishing the switching function, but this portion of the counts is broadly phrased and there is no contention as to either of the disclosures that it does not support the counts.
>
> It is necessary to notice, however, that the Smith device involves a wiping contact carried by a member which is driven by the time train and is concentric with the hour shaft, the wiper bearing upon two interleaved discs, one of metal and the other of insulation material. The make and break of the circuit is accomplished by the wiper dropping off the edge of the radial slit in one disc on to the other disc, which is interleaved with it. The edges of these discs that show on the face of the instrument provides indication of the point at which the switching operation takes place. Smith provides one of the discs with a different color than the other disc. The bands of color showing through a circular opening in the clock face give an easily apprehended indication of the time for the switch operations to occur and the length of interval between them. The nature of the continuously sliding contact of the Smith device is such that if the discs are turned in a direction counter-clockwise, the wiper will catch under projections on the discs which are provided for the purpose of giving the desired "snap" action, and damage that element. To avoid this, Smith provides the spur gear with a ratchetlike arrangement consisting of holes in the web of the spur gears and a spring finger which drops into the holes from a lateral direction.
>
> We notice that the counts are specific with respect to the elements which have an indicating-time determining function and to the "manuals" which are used to set them, but are very broad and general as to the remainder of the combination which is required to make a complete time switch. • • •

The presence of the friction brake mechanism in the combination furnishes the significant feature of the involved invention as one of Smith's early patents, i. e., No. 2,004,137, issued June 11, 1935, contains all elements of the instant invention with the exception of said friction brake recited in the counts of the present interference.

In considering the relative positions of the parties with regard to the claimed invention, it is well to bear in mind the two principal contentions advanced by the appellant in challenging the conclusions reached by the Board of Interference Examiners in awarding priority to the party Smith. First, the appellant urges that the Board was in error in ruling that Smith established a reduction to practice in 1938, and secondly the appellant contends that the Board erred in construing the law applicable to an extended delay between the date of an alleged reduction to practice of the invention and the filing date of the patent application therefor. In this latter respect, the appellant argues that the evidence of record herein is clearly persuasive of the view that Smith either abandoned his alleged invention, concealed and suppressed the same, or otherwise forfeited any right he may have had to the award of priority.

The record discloses that Smith personally constructed Model 1 of his device in 1932 at the H. C. Thompson Clock Company. That such model evidenced conception of the instant invention is not disputed by appellant. In the same year, Smith prepared certain drawings of the invention (Smith Exhibit 12) as well as a written detailed description, both of which were, without substantial change, incorporated into Smith's patent application filed in 1945. At this juncture of the factual situation, the appellant points significantly to the failure of Smith to file a patent application at that time when, according to Smith's own testimony, he had an operative model of his invention. Smith emphatically denied, however, that any patent claims had been drawn at this time. In any event, Smith endeavored to solicit the interest of the H. C. Thompson Clock Company, as well as other manufacturers, in the production of his device as represented by Model 1. While there appears to have been some interest on the part of said manufacturers between 1933 and 1935, the alleged invention of Model 1 was apparently not acceptable for commercial production due primarily to the existence of certain patents issued to the inventor Warren relating to electric motors in electric clocks, which patents were not available for license, and due to the further fact that certain refinements appeared to be necessary in order to reasonably perfect the invention for practical manufacture. At any rate, Smith's efforts were of no avail until the year 1935 when the Ingersoll-Waterbury Company (hereinafter referred to as Ingersoll) became interested in the Smith device. Smith's Exhibit 41, showing a date of June, 1936, indicates that Ingersoll received from Smith a written description of the invention in specification form, patent drawings, and several models for inspection and testing. Again, it is noteworthy that the description of the invention contained in Exhibit 41, as well as the drawings accompanying the same, appear without substantial change in the Smith patent application filed in 1945. Smith again denies that any claims were in existence covering the invention at this time.

In correspondence, Smith repeatedly refers to his device, Model 1, as the "Color Band" time switch, presumably because of the contrasting color feature of the clock face. In this respect, it is essential to note that in 1930 and 1931, prior to the construction of Model 1, Smith had filed two patent applications relating to time switches of the "Color Band" type which subsequently issued in 1935 and 1936 as Patents 2,004,137 (previously identified) and 2,032,774. Each of these patented disclosures was a forerunner of the device embodied in the counts of the present interference and, as will more fully appear during the course of this opinion, Smith was equally intent upon interesting manufacturers in these patents as he was in promoting the instant device.

Returning now to Smith's activities with Ingersoll, the evidence shows that the interest manifested by that company was continuous from 1935 to 1938, and that in 1937 a second model of the Smith device, Model 2, was constructed using Model 1 as a guide. This second model was built by Ingersoll in substantial accordance with Model 1, though a less expensive friction brake was incorporated in the second model. No affirmative steps were ever taken by Ingersoll to actually manufacture the device, though there is evidence in the record to the effect that Ingersoll was satisfied that the model operated successfully. Ingersoll finally declined to carry through with the project in 1938.

Thereafter, a period of illness (1938–1940) allegedly interrupted Smith's efforts to sell manufacturers on his new device. In this regard, the evidence is far from satisfactory in establishing the actual facts of Smith's extended disability, although Smith, in his testimony, stated that he underwent two major operations from 1938 to 1940. The exhibits in the record bearing on this period of incapacitation indicate, however, that Smith's total hospitalization lasted less than two weeks, and the bills for hospital and surgical services seem relatively slight considering the length of time Smith alleges to have been ill. Yet, it is not for us to resort to guesswork as to the nature of Smith's disability, it not being disclosed, nor to speculate on the bona fides of the allegation that Smith was, in fact, ill all during the period claimed. In the absence of more concrete evidence on the matter, which could have been supplied by diligent efforts of the appellant in the proceedings below, we do not choose to infer that Smith was other than disabled between 1938 and 1940.

On June 18, 1940, Smith wrote to the General Electric Company (with which company he had previous unsuccessful negotiations between 1932 and 1935 relative to the "Color Band" time switch) enclosing copies of Smith Patents 2,004,137 and 2,032,774, but Smith was again unable to interest that company in his "Color Band" time switch patents. In his brief, Smith states that he sent a photostat of Model 2 along with the aforesaid patents, but the record fails wholly to establish that the photostat was, in fact, of Model 2, and certainly an examination thereof, no interior mechanism being shown, sheds no light on whether the brake mechanism was included in that photostat. In its opinion, the Board made no reference to the foregoing letter of June 18, 1940, so that the period from the end of Smith's illness until 1943 is not accounted for in the Board's decision.

In 1943, Smith again wrote General Electric with reference to possible infringement by that company of Smith Patents 2,004,137 and 2,032,774. This letter appears in its entirety to relate to these patents without mention of the Smith device as represented by Models 1 or 2, which Smith held in his possession since 1938. General Electric denied the infringement charge. In early 1944, Smith again wrote General Electric at which time he stated that he was "proceeding to offer rights under a number of timing mechanism patents to such concerns as I think could best benefit from them." The Smith application involved in this interference had not, at that time, been filed, so that it would seem that Smith was not offering the instant device, or even mentioning the same, to General Electric in that letter. However, the close relationship between the previously issued Smith patents in question and the instant device is such that it may not be unreasonable to assume that Smith's efforts were directed to negotiations concerning both.

In the interim, the appellant had entered the field, commencing in 1943. The Board of Interference Examiners awarded conception and reduction to practice to the appellant in 1943, and the record fully supports the Board's action in that respect.

Previously, the International Register Company (appellant's assignee) had been manufacturing a device known as Model T–2002, and Smith, in September of 1944, charged International with infringing Smith Patents 2,004,137 and 2,032,774. This was denied by International, but some interest was shown by that company in acquiring the subject Smith patents. In the meantime, Smith had been in contact with the United States Time Corporation (hereinafter referred to as United), commencing in November, 1944, regarding rights to the "Color Band" time switch. Definite interest was displayed by this company in Smith Patents 2 004,137 and 2,032,774, and arrangements for the rights to these patents were discussed. Smith, in his testimony, stated as follows:

> The letter of December 8 [1944] is by the president Mr. Lehmkuhl [of United] and makes me a proposition to pay a yearly minimum of $3,000 for exclusive patent rights to manufacture some improved version of Model 2. This, despite the fact that in succeeding years I had not been able to ascertain a preferred mode of embodying the invention for practical production purposes, stimulated me to file my patent application which eventuated in the patent involved in this Interference as it was the first proposition that I had received that looked like definite business, and I had the benefit of some helpful suggestions and criticism as to the construction of Models 1 and 2 during these negotiations.

The correspondence between Smith and United does not indicate that the brake mechanism in question was discussed by either party, but it appears that both parties were interested in the Smith patents previously issued on the "Color Band" time switch. It does not appear that United was aware that Smith had advanced beyond that which he disclosed in his patents of record. United decided, however, in August of 1945 not to adopt rights under the subject Smith patents. Previously,

in June, 1945, Smith had filed his patent application covering the brake mechanism in issue because, as Smith states, the negotiations between himself and United "looked like definite business." It might be added that, at this time, appellant had not filed application, though appellant's invention had been reduced to practice in late 1943.

In April, 1947, Smith resumed discussion with International relative to Patents 2,004,137 and 2,032,774 and his charge of International's infringement thereof. Further, Smith attempted to revive International's interest in buying rights under said patents. In the same year, International forwarded to Smith a sample of what International referred to as the Model 6000 range timer, the appellant's device in issue, so that Smith could inspect the same with regard to whether this product infringed the prior Smith patents. In 1948, Smith having inspected Model 6000, repeated his charge of infringement and also made reference to the fact that he had a patent application pending, i. e., that filed in 1945, which disclosed advanced embodiments of his prior timing mechanism patents. International again denied that its devices, including the Model 6000, infringed any Smith invention. As previously indicated, Smith, in 1948, amended his then pending patent application to include the counts of the present interference, and after issuance of the Smith patent involved herein, appellant, as aforesaid, copied these added claims for purposes of interference. It must also be noted that for a three year period, 1946 through 1948, International, appellant's assignee, had sold thousands of the Model 6000 range timer, but market activity thereafter was terminated. The aforementioned license agreement between Smith and International was negotiated in 1950, but such agreement has no significant bearing on the issues of this case.

In the proceedings below, Smith contended that he had successfully tested and operated Model 1 of his device in 1932, and that such activity established reduction to practice of the involved invention. The Board of Interference Examiners, however, was not convinced by the testimony of record offered on behalf of Smith that the brake mechanism was "installed and its function in the combination recognized and demonstrated" at that time, although the Board was satisfied that the Smith device, as represented by either Model 1 or 2, did, in fact, embody the combination required by the counts, and that as presently constituted, either model would perform in the claimed manner. Smith's further allegation that Model 2 was also successfully reduced to practice met with approval in the Board's opinion, the necessary corroboration being found in the testimony of the witness Wagner, a clock designer for Ingersoll. In this respect, the Board said:

> • • • it was his [the witness Wagner] purpose according to his instructions to produce in the model, Exhibit 2 [Model 2] a device which would function exactly in accordance with the model, Exhibit 1 [Model 1]; that he tested both the model, Exhibit 1, and the model, Exhibit 2 with lights as a load at various time settings, observing operation of the manual of setting, and the correctness of operation of both devices. Furthermore, he noted particularly the friction brake in the model, Exhibit 1 and its function, and put into his design for the Exhibit 2 model a different sort of friction brake, one that he could supply more cheaply. While this testimony does not indicate a specially devised test for the function of the friction brake part, this feature is elementary, we might almost say kindergarten, mechanics with which an experienced mechanic or machine designer would have no difficulty either in applying or observing its correct functioning. The witness Wagner puts this testing, according to his recollection, as having taken place prior to some time in 1938. We accept this testimony as proving reduction to practice of the counts in issue as prior to the last day of the calendar year 1938. • • •
>
> • • • • • • • •
>
> • • • The device was observed to be operative to switch on and off a lamp, and it is plainly capable of handling any other light load such as a signal bell or relay. The functioning of the friction brake was observed and appreciated. The nature of the switching mechanism obviously limits the allowable load to a few amperes, but this does not render the device non-useful. The nature of the switching mechanism also imposes upon the setting mechanism the characteristic of substantially oneway setting movement, such as is the case in many alarm clock alarm sets. These latter features have played a part in failure to commercialize the device but it is not ordinarily essential that commercial production be proven in order to establish practical utility.

We have carefully considered the testimony of record and contentions of the appellant bearing on Smith's alleged reductions to practice, both in 1938 and prior thereto, and while we find the Board in its opinion to have made several erroneous assumptions of fact relative to the testimony of the corroborating witness, Carl Wagner, we are in agreement with the ultimate conclusion expressed in the Board's decision.

As a matter of law, we are unable to find on the instant record any corroborative evidence of reduction to practice by any witness testifying on behalf of Smith prior to the testimony of Wagner. With respect to the Wagner testimony, the Board was mistaken in its impression that the evidence established that Wagner terminated his employment at Ingersoll in 1938, and that Wagner actually said, in response to questions from counsel, that he satisfactorily tested and operated the Smith models in 1938. It appears that the Board's erroneous assumption concerning Wagner's employment may have prompted it to conclude that the witness, having left the employ of Ingersoll in 1938 (as it believed), and having testified that he tested the invention in question while in Ingersoll's employ, did, in fact, do so sometime prior to terminating that employment. The fact that Wagner continued in the employ of Ingersoll (and its successor) for a considerable period after 1938, and that he did not actually state a date or dates when he tested the Smith models is not regarded by us as being of serious consequence when considered in the light of that witness' surrounding testimony. While Wagner was not pointedly asked, either on direct or cross examination, the date of the testing, it is apparent to us that Wagner was speaking of events within his personal knowledge that occurred in 1938, and that had he been requested to affirmatively establish such a fact, would have so done.

We also note that Smith Exhibit 49, a properly authenticated letter from Ingersoll to Smith, indicates that Model 2 was running satisfactorily after testing and this letter is dated in 1937.

While we have given every consideration to appellant's contention that the tests in question amounted to nothing more than abandoned experiments, we find ourselves unwilling to adopt such a view, feeling as we do that Smith has properly proven a reduction to practice in 1938.

The principal argument presented by appellant relates to Smith's alleged delay and inactivity in the matter of filing his patent application after reduction to practice of the invention had been achieved. Appellant's position is that the evidence of record conclusively supports a finding to the effect that Smith, having suppressed and concealed his invention from 1938 to 1945 (Smith's filing date), or having abandoned the invention until after the appellant's conception and reduction to practice in 1943, forfeited his right to the award of priority.

In approaching this issue, we wish to commend counsel for the respective parties on their thorough and concise briefing of the doctrine so emphatically embraced by the appellant herein. While we have not been without serious doubts as to its proper application under the facts of this case, we must conclude that the evidence offered by appellant is insufficient in law to warrant a reversal of the award of priority to Smith.

[1] Although it is a well settled proposition that the law favors and seeks to reward the first inventor of a patentable device, it does not do so in blind disregard of a proper showing of acts detrimental to the purpose and spirit of such law which are sufficient to defeat that inventor's right to be adjudged as entitled to priority.

[2] [3] In the early case of *Mason* v. *Hepburn*, 13 App. D. C. 86, the doctrine of equitable estoppel based on suppression and concealment of an invention following its reduction to practice was appropriately formulated. Numerous applications, as well as misapplications, of that doctrine have been set forth through the years, but it remains a fundamental principle that mere delay in filing will not suffice, in itself, to defeat the rights of the first inventor. A party seeking to succeed by invoking applicability of the doctrine must affirmatively establish that the elements of concealment and suppression are present in the facts of the particular case under consideration. Requisite proof is essential and it cannot be supplied by an improper overindulgence in conclusions warped by undue presumptions and inferences.

In its simplest form, the question here may be presented as follows: What evidence of suppression, concealment (and/or abandonment) has the appellant placed before us to warrant a holding that Smith is now estopped from being adjudged, as a matter of fact and law, the first inventor and, as such, entitled to prevail?

In the first place, appellant directs attention to Smith's admission (against the interest of the party Smith) that a reduction to practice was established in 1932; that a patent application was at that time in existence, though no claims were then drawn; and that as the invention disclosed in Smith's application of 1945 is not patentably different from that which Smith possessed in 1932 or thereabout, the long delay in filing is inexcusable and amounts to concealment and suppression. Further, appellant suggests that the situation relative to the Warren patents, aforementioned, can have no bearing whatever on Smith's failure to submit his completed application. It is also suggested by appellant that Smith's allegation to the effect that he was endeavoring to solve practical difficulties in the operation of his device cannot be used as an affirmative defense for such long delay, especially when no such improvements are evidenced in the involved invention. Taking into account the admission against Smith's interest, the appellant thus concludes that Smith clearly suppressed and concealed his invention in a manner not sanctioned by law.

Considering the period from Smith's conception until 1938, the established date of reduction to practice, it is entirely clear that Smith was actively engaged in repeated attempts to persuade manufacturers to produce his device. Smith was not concealing or suppressing his alleged invention during this time but, on the contrary, was acclaiming the benefits thereof to those who he hoped would manufacture it. While Smith might have filed his application during the period presently being considered, the fact that he did not do so is not evidence in support of appellant's position. Whatever reason Smith may have had in mind for withholding his application on an invention which he deemed to be satisfactorily demonstrated, we do not know, and while we might speculate on the subject, it is not becoming to us to violate the prevailing body of law and conclude that such delay, in and of itself, prevents Smith from being adjudged the first inventor in law.

With regard to Smith's conduct following actual reduction to practice in 1938, as awarded herein, we are not impressed with that inventor's allegation that, except for his period of disability, he was actively engaged in attempting to promote the instant invention. We are equally unimpressed with the allegation that Smith was doing all in his power to confer the benefits of his invention upon the public at large. It appears to us that Smith was practically effortless in this period insofar as a showing from the exhibits would indicate. Whatever influence the late war had upon Smith's failure to file a patent application on a completed invention, we can only guess, and while our unexpressed conclusions in this respect might not be justified, the fact remains that the law supports Smith's right to priority. Appellant has not proven by a preponderance of evidence that Smith concealed and suppressed the invention (nor abandoned the same, although we do not believe that appellant seriously contended the affirmative of such result), and we are manifestly unwilling, on the facts of this case, to allow ourselves to substitute what might, at first appraisal, be a clearly warranted presumption in place of the direct proof required by law. In summarizing, it is well to repeat that a showing of concealment or suppression is not made out by

merely establishing the fact of an extended delay in applying for a patent upon an invention previously reduced to practice.

[4] Smith has argued that the doctrine of equitable estoppel has no application until and unless there is evidence of the fact that the party alleged to have concealed or suppressed an invention was incited to activity as a result of being appraised that a rival had entered the field with respect to the same invention. This view was supported by the Board in its decision. We are not necessarily in agreement with such reasoning. Such a condition is not an absolute prerequisite to proper application of the doctrine, though the existence of such a circumstance carries with it persuasive value. In a proper case, we would not hesitate to apply the doctrine where the proof indicates deliberate suppression and concealment without more. In the instant case, appellant fails to show that Smith was "spurred into activity" by knowledge of appellant's work. Such factor has been taken into consideration in our study of the case.

[5] For the reasons hereinbefore indicated, the decision of the Board of Interference Examiners is affirmed.

AFFIRMED.

WORLEY, *J.*, dissents.

JACKSON, *J.*, retired, recalled to participate herein in place of GARRETT, *C. J.*

NOTICES

Foreign Patents Received in the Scientific Library as of December 31, 1953

Country	Date received	Highest number
Australia	Dec. 9, 1953	147,807
Austria	Dec. 24, 1953	176,850
Belgium	Nov. 18, 1953	509,800
Canada	Dec. 21, 1953	498,534
Czechoslovakia	June 26, 1952	81,300
Denmark	Sept. 2, 1953	76,055
Finland	Oct. 16, 1953	26,021
France (*Patents*)	Dec. 29, 1953	1,043,300
(*Additions*)	Dec. 29, 1953	58,250
Germany	Sept. 1, 1953	878,818
Great Britain	Dec. 29, 1953	699,170
Hungary	Sept. 20, 1951	140,582
India	Dec. 21, 1953	47,404
Ireland	Dec. 17, 1953	19,650
Italy	Oct. 20, 1953	470,000
Japan	Dec. 23, 1953	6,000
Netherlands	Dec. 3, 1953	73,660
Norway	Dec. 7, 1953	82,734
Philippines	Dec. 21, 1953	169
Poland	Dec. 23, 1953	35,508
Russia	Apr. 10, 1928	2,496
Sweden	Dec. 29, 1953	142,742
Switzerland	Dec. 24, 1953	293,370

Australia: First 2,000 incomplete
Belgium: First printed 493,079
Canada: First printed 453,746
Finland: First printed 19,428
First 500 incomplete
Hungary: First received 5,792
Ireland: Missing 1–10,000, also 16,250–16,300 (1942)
Italy: First 243,000 incomplete
Japan: "Publication number"
Russia: File incomplete

Adjudicated Patent

(D. C. Mass.) Larson Patent No. 2,088,754, for waterproofing of masonry walls, *Held* not infringed. *A. Belanger & Sons, Inc.* v. *Brisk Waterproofing Co., Inc.*, 116 F. Supp. 127; 99 USPQ 45.

Cancellation Notice

[6110]

Fred R. Wilkin, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Advance Glove Manufacturing Co., 901 West Lafayette Boulevard, Detroit 26, Michigan, to effect the cancellation of trade-mark registration of Fred R. Wilkin, 2929 South Cicero Avenue, Cicero, Illinois; No. 361,885, dated July 11, 1938, and the notice of such proceeding sent by registered mail to the said Fred R. Wilkin, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Fred R. Wilkin, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Jan. 26.)

DAPHNE LEEDS,
Assistant Commissioner of Patents.

Jan. 5, 1954.

Applicant's Address

The requirement of Rule 61, that the post-office address of the applicant must be stated in the petition, means that the applicant must give the post-office address at which he customarily receives his mail.

The rule was made in order that the Office in necessary cases might correspond directly with the applicant and not through his attorney. The address of the attorney with instructions to send communications to the applicant in his care will not be accepted as a compliance with this rule.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Acme Paper Company, Inc., Memphis, Tenn. Looseleaf filiers, tablets and writing paper. Serial No. 653,661, Jan. 26. Class 37.

Adler, Albert, Philadelphia, Pa. Jewelry. Serial No. 650,406, Jan. 26. Class 28.

Agrashell, Inc., Los Angeles, Calif. Vegetable shell dusting powders for use during shaving of hides in the tanning industry. Serial No. 636,671, Jan. 26. Class 6.

Airborne Flower & Freight Traffic, Inc., South San Francisco, Calif., sometimes known as Airborne Flower and Freight Traffic, Inc. Domestic and international air freight forwarding. Serial No. 631,523, Jan. 26. Class 105.

Airborne Flower and Freight Traffic, Inc.: *See*—
Airborne Flower & Freight Traffic, Inc.

Albers Milling Company, Portland, Oreg., and Los Angeles, Calif. Feed. Serial No. 603,950, Jan. 26. Class 46.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Moldboards of excavating, land levelling, and road grading machines. Serial No. 619,435, Jan. 26. Class 23.

All-Steel Equipment Inc., Aurora, Ill. Flat paints, enamels, and lacquers. Serial No. 651,032, Jan. 26. Class 16.

Alpha Chi Sigma Fraternity, Indianapolis, Ind. Organizing chapters in a national collegiate and professional fraternity, etc. Serial No. 627,105, Jan. 26. Class 100.

American Automatic Devices Co., Chicago, Ill. Marker lamps. Serial No. 650,408, Jan. 26. Class 21.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial No. 637,681, Jan. 26. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial No. 637,685, Jan. 26. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial No. 637,687, Jan. 26. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial Nos. 637,691–3, Jan. 26. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial No. 637,973, Jan. 26. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial No. 637,973, Jan. 26. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Apparatus for measuring and recording pressures. Serial No. 637,981, Jan. 26. Class 44.

American Feed Company, Inc., New York, N. Y. Animal feed. Serial No. 645,094, Jan. 26. Class 46.

American Gilsonite Company, Salt Lake City, Utah. Uintahite, an asphaltic material. Serial No. 640,031, Jan. 26. Class 1.

American Import Corporation, New York, N. Y. Table and kitchen cutlery. Serial Nos. 650,338–9, Jan. 26. Class 23.

American Machine & Foundry Company, New York and Cheektowaga, N. Y. Electrical and/or electro-mechanical pinfall signalling or indicating units, etc. Serial No. 644,155, Jan. 26. Class 21.

American Red Ball Transit Company, Inc., Indianapolis, Ind. Moving and shipping by motor truck. Serial No. 628,904, Jan. 26. Class 105.

Ansul Chemical Company, Marinette, Wis. Drier unit for refrigerating systems. Serial No. 644,949, Jan. 26. Class 31.

Ar. Winarick, Inc., New York, N. Y. After shaving lotion. Serial No. 635,337, Jan. 26. Class 51.

Armour and Company, doing business under the trade style Drummond Packing Co., Chicago, Ill. Ham, bacon, picnics, etc. Serial No. 642,600, Jan. 26. Class 46.

Armour and Company, doing business under the trade style Drummond Packing Co., Chicago, Ill. Ham, bacon, picnics, etc. Serial No. 642,604, Jan. 26. Class 46.

Aro Equipment Corporation, The, Bryan, Ohio. Oxygen regulators. Serial No. 651,886, Jan. 26. Class 44.

Ashkar, Albert J., Inc., Los Angeles, Calif. Fresh carrots. Serial No. 646,042, Jan. 26. Class 46.

Autotherm Co., The: *See*—
Claff, C. Lloyd.

Baker Boy Bakeries, Inc., Los Angeles, Calif. Old fashioned confection roll and for confection roll cake crumbs. Serial No. 619,120, Jan. 26. Class 46.

Bamag-Meguin Aktiengesellschaft, Berlin, Germany. Electrolysers for purification of gases and liquids, etc. Serial No. 624,916, Jan. 26. Class 21.

Barnes-Hind Laboratories, San Francisco, Calif. Eye wash. Serial No. 650,967, Jan. 26. Class 18.

Beaunit Mills, Inc., New York, N. Y. Thread and yarn. Serial No. 648,476, Jan. 26. Class 43.

Bee-Dew Cosmetic Co.: *See*—
Hill, Vivian N.

Beta Sigma Phi: *See*—
Ross, Walter W., and Company, Inc.

Beta Sigma Phi International: *See*—
Ross, Walter W., and Company, Inc.

Beyersdorfer, Albert, Plainville, Mass. Money clips, chains, tie clips, etc. Serial No. 647,470, Jan. 26. Class 28.

Borrowed Timers, The, San Diego, Calif. Crosses for tables and walls. Serial No. 632,012, Jan. 26. Class 50.

Burrus Feed Mills: *See*—
Burrus Mills, Incorporated.

Burrus Mills, Incorporated, doing business under the name and style of Burrus Feed Mills and under the name and style of Liberty Mills, Fort Worth and San Antonio, Tex. Range feeds. Serial No. 623,750, Jan. 26. Class 46.

California Optical Leather Co., Castro Valley, Calif. Spectacle cases. Serial No. 625,399, Jan. 26. Class 26.

Capital Credit Corporation, Washington, D. C. Collection of bad debts. Serial No. 637,534, Jan. 26. Class 102.

Caram Manufacturing Company, Monrovia, Calif. Adhesives and cements. Serial No. 645,541, Jan. 26. Class 5.

Carthage Mills Incorporated, Carthage, Cincinnati, Ohio. Shuffle board game sets. Serial No. 637,644, Jan. 26. Class 22.

Cel-U-Dex Corporation, Brooklyn, N. Y. Metal separators for holding files. Serial No. 627,489, Jan. 26. Class 32.

Central Cooperative Turkey Producers, Ellsworth, Iowa. Eviscerated turkeys. Serial No. 620,073, Jan. 26. Class 46.

Central Soya Company, Inc., Fort Wayne, Ind. Feed. Serial No. 624,262, Jan. 26. Class 46.

Century Engineering Corporation, Cedar Rapids, Iowa. Nozzles, nozzle extensions, fittings, etc. Serial No. 632,152, Jan. 26. Class 13.

Champion Brick Company, The, Baltimore, Md. Building bricks. Serial No. 621,865, Jan. 26. Class 12.

Chase Chemical Company, Newark, N. J. High potency therapeutic vitamins. Serial No. 652,103, Jan. 26. Class 18.

Cherry-Burrell Corporation, Chicago, Ill. Chocolate flavored drink base. Serial No. 643,643, Jan. 26. Class 46.

Claff, C. Lloyd, doing business under the name of The Autotherm Co., Randolph, Mass. Insulated sleeve-like apparatus within which an infected limb or other member is received for treatment. Serial No. 639,920, Jan. 26. Class 44.

Clark Equipment Company, assignee: *See*—
Michigan Power Shovel Company.

Clemson Bros., Inc., Middletown, N. Y. Power and hand hack saw blades and flexible back metal cutting band saws. Serial No. 550,584, Jan. 26. Class 23.

Cluett, Peabody & Co. Inc., Troy, N. Y. Pajamas. Serial No. 646,735, Jan. 26. Class 39.

Coats & Clark Inc., New York, N. Y. Thread. Serial No. 651,043, Jan. 26. Class 43.

Coles, William A., Philadelphia, Pa. Cauteries and surgical instrument knives. Serial No. 652,169, Jan. 26. Class 44.

Continental Pharmacal Company, The, Cleveland, Ohio. Blood transfusion sets. Serial No. 652,057, Jan. 26. Class 44.

Cordova Machine & Foundry Co., Inc., Cordova, Tenn. Louvered doors, louvered windows and glass jalousies. Serial No. 638,066, Jan. 26. Class 12.

Crown Cinema Corporation, New York, N. Y. Motion picture films. Serial No. 641,911, Jan. 26. Class 26.

Crown Rock Asphalt Company, The, Elmhurst, Ill. Mixture of various sized crushed, washed, dried stone, gravel or slag combined with binders, etc., for use as a paving material, etc. Serial No. 650,425, Jan. 26. Class 12.

Custom Hydrocraft: *See*—
Szakacs, Joseph J.

D'Arrigo Bros. Co. of California, San Jose, Calif. Fresh grapes. Serial No. 653,355, Jan. 26. Class 46.

Davol Rubber Company, Providence, R. I. Protective covers to be placed over nursing bottle nipples. Serial Nos. 651,389–90, Jan. 26. Class 44.

Diamond Bros. Company, doing business under the name and style of Fashion-Fame Furniture Co., Trenton, N. J. Living room furniture and dual purpose furniture. Serial No. 628,926, Jan. 26. Class 32.

Dick, A. B., Company, Niles, Ill. Materials and supplies for spirit and hectograph duplication. Serial No. 645,121, Jan. 26. Class 11.

DoAll Company, The, Des Plaines, Ill. Saw bands. Serial No. 646,205, Jan. 26. Class 23.

Donnelley, Reuben H., Corporation, The, Chicago, Ill. Providing buying information. Serial No. 605,410, Jan. 26. Class 100.

Drummond Packing Co.: *See*—
Armour and Company.

Duraplex (Plastics) Limited, London, England. Flexible plastic material. Serial No. 618,348, Jan. 26. Class 50.

Easy Foot Research Laboratories: *See*—
Schutzbank, Victor.

Eureka Williams Corporation, Bloomington, Ill. Heating apparatus. Serial No. 649,499, Jan. 26. Class 34.
Fashion-Fame Furniture Co.: *See*—
Diamond Bros. Company.
Federated Department Stores, Inc., doing business under the name and style of Wm. Filene's Sons Company, Cincinnati, Ohio, and Boston, Mass. Women's costume necklaces. Serial No. 651,097, Jan. 26. Class 28.
Filene's, Wm., Sons Company: *See*—
Federated Department Stores, Inc.
Finger Lakes Chemical Company, Inc., Etna, N. Y. Detergents. Serial No. 632,608, Jan. 26. Class 52.
Firma Gebruder Junghans A. G. Schramberg, Schwarzwald, Germany. Clocks and parts thereof, alarm clocks, signal clocks, etc. Serial No. 640,791, Jan. 26. Class 27.
Fleer, Frank H., Corporation, Philadelphia, Pa. Chewing gum. Serial Nos. 624,030–1, Jan. 26. Class 46.
Flexible Steel Lacing Company, Chicago, Ill. Conveyor and transmission V belting. Serial No. 650,586, Jan. 26. Class 35.
Florasynth Laboratories, Inc., New York, N. Y. Concentrated extracts. Serial No. 633,668, Jan. 26. Class 45.
Fougera, E., & Co., Inc., New York, N. Y. Preparation used for sclerosing varicosities. Serial No. 651,398, Jan. 26. Class 18.
Frenchtown Porcelain Company, Trenton, N. J. Ceramic electrical insulating compounds. Serial No. 649,779, Jan. 26. Class 21.
Fulk and Rabidue, West Branch, Mich. Spaghetti meat sauce. Serial No. 650,435, Jan. 26. Class 46.
Gas & Oil Industry Laboratories, Incorporated, Irvington, N. J. Ball check valves. Serial No. 614,500, Jan. 26. Class 13.
Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. Serial No. 650,497, Jan. 26. Class 28.
General Wall Products, Inc., Cleveland, Ohio. Plastic wall tile. Serial No. 650,437, Jan. 26. Class 12.
"Ghost" Products Co., Springfield, Oreg. Drum beaters. Serial No. 625,734, Jan. 26. Class 36.
Gillette Company, The, doing business under the name and style of The Toni Company, Gillette Park, Boston, Mass. Shampoo. Serial No. 647,771, Jan. 26. Class 52.
Glenzip Company, Cleveland, Ohio. Zipper repair tools. Serial No. 635,963, Jan. 26. Class 23.
Granny Goose Foods, doing business under the name and style The Spudette Company, Oakland, Calif. Shoestring potatoes. Serial No. 629,162, Jan. 26. Class 46.
Guardian Chemical Corporation, Long Island City, N. Y. Medicine for the treatment by external application of psoriasis. Serial No. 651,702, Jan. 26. Class 18.
Gulf Coast Organic & Minerals Co.: *See*—
Porter, Fedil C.
Gunnison Homes, Incorporated, New Albany, Ind. Prefabricated homes. Serial No. 650,366, Jan. 26. Class 12.
Haller, Raymond and Brown, Inc., State College, Pa. Electronic-optical systems. Serial No. 647,416, Jan. 26. Class 26.
Halter's Pretzels, Inc., Canton, Ohio. Pretzels and pretzel sticks. Serial No. 629,942, Jan. 26. Class 46.
Hasse, Raymond L., Spokane, Wash. Plastic casings. Serial No. 645,803, Jan. 26. Class 12.
Hebrew National Kosher Sausage Company, Inc., Brooklyn, N. Y. Corned beef, tongue, salami, etc. Serial No. 632,885, Jan. 26. Class 46.
Heyden Chemical Corporation, New York, N. Y. Trimethylolethane. Serial No. 649,708, Jan. 26. Class 6.
Hill, Vivian N., doing business under the name Bee-Dew Cosmetic Co., Detroit, Mich. Scalp oil, toilet water, blackhead softener, etc. Serial No. 612,803, Jan. 26. Class 51.
Hills of Westchester, Washington, D. C. Bakery products and confections. Serial No. 637,421, Jan. 26. Class 46.
Illinois Agricultural Association, Chicago, Ill. Entertainment presented through the medium of television programs. Serial No. 651,404, Jan. 26. Class 107.
Industrial Tape Corporation, North Brunswick Township, Middlesex County, N. J., now by change of name, Permacel Tape Corporation. Tack cloth. Serial No. 636,481, Jan. 26. Class 29.
Interstate Textile Co., Morrisville, Pa. Filter cloths. Serial No. 649,155, Jan. 26. Class 31.
Jardim, Joaquim S., Newark, N. J. Frying pan covers. Serial No. 648,405, Jan. 26. Class 13.
Jetter Music Pub. Co., Huntington, N. Y. Grooved phonograph records. Serial No. 641,141, Jan. 26. Class 36.
Johns-Manville Corporation, New York, N. Y. Plastic tape adapted particularly for application to metal pipes. Serial No. 638,364, Jan. 26. Class 12.
Johnson's, Iver, Arms & Cycle Works, Fitchburg, Mass. Revolvers. Serial No. 641,554, Jan. 26. Class 9.
Katiba, Joudat J., Lakeland, Fla. Gasoline powered lawn mowers. Serial No. 650,186, Jan. 26. Class 23.
Kay, Tyler, Company, Inc., doing business as Mutual Funds Center, Buffalo, N. Y. Advertising and promotional services rendered to others. Serial No. 635,112, Jan. 26. Class 101.
King Kone Corporation, New York, N. Y. Empty ice cream cones. Serial No. 647,780, Jan. 26. Class 46.
Kinzee Products, Inc. Company, Westwood, N. J. Combined sinks and cabinets. Serial No. 642,283, Jan. 26. Class 13.
Kleinert, I. B., Rubber Company, New York, N. Y. Feeding bib. Serial No. 639,120, Jan. 26. Class 39.
Kohler Co., Kohler, Wis. Plumbing fixtures. Serial No. 634,331, Jan. 26. Class 13.
Lawton Engineering and Manufacturing Company, Detroit, Mich. Plastic articles, namely, siding, roofing, etc. Serial No. 637,659, Jan. 26. Class 12.
Lehnkering, Carl F., Shullsburg, Wis. Toy blocks. Serial No. 650,522, Jan. 26. Class 22.
Liberty Mills: *See*—
Burrus Mills, Incorporated.
Liebman, Max, Productions, Inc., New York, N. Y. Entertainment services. Serial No. 648,928, Jan. 26. Class 107.
Lionel Corporation, The, New York, N. Y. Cameras. Serial No. 650,374, Jan. 26. Class 26.
Loew's Incorporated, New York, N. Y., and elsewhere. Grooved disk phonograph records. Serial No. 636,296, Jan. 26. Class 36
Lultpold-Werk Chemisch-Pharmazeutische Fabrik, Munich-Obersendling, Germany. Hemostatic. Serial No. 640,163, Jan. 26. Class 18.
Lunt Silversmiths: *See*—
Rogers, Lunt & Bowlen Company.
Lynch Manufacturing Co., Seattle, Wash. Upholstered furniture. Serial No. 639,228, Jan. 26. Class 32.
Lynem, Harry R., Indianapolis, Ind. Medicine for the treatment of asthma. Serial No. 636,053, Jan. 26. Class 18.
M. I. S. A. L.-Macchine Industriali Societa Accomandita Leto, Milan, Italy. Milling machines. Serial No. 639,062, Jan. 26. Class 23.
Mainland Corporation, The, Stepney, Conn. Dehydrated food products. Serial No. 639,763, Jan. 26. Class 46.
Marine Publications, Inc., Newport Beach, Calif. Monthly magazine. Serial No. 631,166, Jan. 26. Class 38.
Mars, Incorporated, Chicago, Ill. Candy. Serial No. 650,189, Jan. 26. Class 46.
Materna Products, Inc., Memphis, Tenn. Medicinal preparation. Serial No. 635,923, Jan. 26. Class 18.
McIntyre Bros., Kansas City, Mo. Fresh mushrooms, lettuce, and tomatoes. Serial No. 633,264, Jan. 26. Class 46.
McPherson, Hal W., Chicago, Ill. Water closet or toilet. Serial No. 651,608, Jan. 26. Class 13.
Mengel Company, The, Louisville, Ky. Case goods, namely dressers, bureaus, highboys, etc. Serial No. 631,559, Jan. 26. Class 32.
Merrill, Ted F., doing business under the name and style of Ted F. Merrill and Sons, Inglewood, Calif. Architectural and structural design services. Serial No. 639,232, Jan. 26. Class 100.
Merrill, Ted F., and Sons: *See*—
Merrill, Ted F.
Michigan Power Shovel Company, Benton Harbor, Mich., assignor to Clark Equipment Company. Power shovels and cranes. Serial No. 650,566, Jan. 26. Class 23.
Miller Motor Company, Melrose Park, Ill. Air and hydraulic cylinders, fluid pressure boosters, fluid accumulators and air hoists. Serial No. 645,823, Jan. 26. Class 23.
Mr. Boston Distiller Inc., Boston, Mass. Spinner dial game device. Serial No. 653,157, Jan. 26. Class 22.
Mitchell, Charles H., Toledo, Ohio. Liniment. Serial No. 651,519, Jan. 26. Class 18.
Mitziga, Walter, doing business as South Shore Printers, Chicago, Ill. Job printing service. Serial No. 623,899, Jan. 26. Class 101.
Morris, Norman M., Corporation, New York, N. Y. Watches and clocks. Serial No. 650,271, Jan. 26. Class 27.
Morse Sewing Machine and Supply Corp., New York, N. Y. Sewing machines. Serial No. 650,381, Jan. 26. Class 23.
Mutual Funds Center: *See*—
Kay, Tyler, Company, Inc.
Naamlooze Vennootschap Biscuitfabriek Patria, Amsterdam, Netherlands. Biscuits. Serial No. 643,703, Jan. 26. Class 46.
Nash, E. T., Merchandise Company, New York, N. Y. Decorated and undecorated metal serving trays, metal coasters, metal flower pots, etc. Serial No. 631,171, Jan. 26. Class 13.
National Glaco Chemical Corporation, Chicago, Ill. Processing equipment. Serial No. 606,027, Jan. 26. Class 13.
National Screen, Service Corporation, New York, N. Y. Light-polarizing spectacles. Serial No. 649,810, Jan. 26. Class 26.
National Shawmut Bank of Boston, The, Boston, Mass. Banking services. Serial No. 647,797, Jan. 26. Class 102.
Nethercutt, Jack B., doing business as Nethercutt Laboratories, Santa Monica, Calif. Cosmetics. Serial No. 627,211, Jan. 26. Class 51.
Nethercutt Laboratories: *See*—
Nethercutt, Jack B.
New England Carbide Tool Co. Inc., Cambridge, Mass. Rotary drill bit. Serial No. 646,889, Jan. 26. Class 23.
New England Carbide Tool Co. Inc., Cambridge, Mass. Power-hammer bit. Serial Nos. 646,890–1, Jan. 26. Class 23.
Newton Grocery Company, Inc., Dothan, Ala. Canned fruits and canned fruit juices. Serial No. 647,708, Jan. 26. Class 46.

New York Feather Co. Inc., New York and Brooklyn, N. Y. Pillows, cushions, and throw pillows. Serial No. 645,428, Jan. 26. Class 32.
Nordberg Manufacturing Company, Milwaukee, Wis. Internal combustion engines. Serial No. 616,186, Jan. 26. Class 23.
North American Creameries, Inc., Minneapolis, Minn. Dairy products. Serial No. 634,420, Jan. 26. Class 46.
North American Packing Corporation, Boston, Mass. Smoked and processed meats. Serial No. 646,307, Jan. 26. Class 46.
Nurserytyme Products, Brooklyn, N. Y. Crib mattresses, playpen pads, baby carriage pads, etc. Serial No. 647,645, Jan. 26. Class 32.
O-Cel-O, Inc., Buffalo, N. Y. Cellulose sponges. Serial No. 623,363, Jan. 26. Class 1.
O'Leary, Lydia, Inc., New York, N. Y. Cream preparation for concealing birthmarks and other skin blemishes. Serial No. 643,706, Jan. 26. Class 51.
Olin Industries, Inc., East Alton, Ill. Chinaware. Serial No. 625,998, Jan. 26. Class 30.
Oliver Corporation, The, Chicago, Ill. Fluid motor or hydraulic lift mechanism. Serial No. 603,596, Jan. 26. Class 23.
Oliver Iron and Steel Corporation, Pittsburgh, Pa. Hydraulic motors, air motors, fluid compressors, etc. Serial No. 649,726, Jan. 26. Class 23.
Oregon Dairy Breeders Association, Corvallis, Oreg. Artificial insemination of cattle. Serial No. 625,690, Jan. 26. Class 100.
Oteco Equipment Company, Houston, Tex. Oil field specialties, namely valve cap and cylinder head gaskets, and machinery packing. Serial No. 645,587, Jan. 26. Class 35.
Pabco Products Inc., San Francisco, Calif. Asbestos cement siding and asbestos cement shingles. Serial No. 651,009, Jan. 26. Class 12.
Packwood, G. H., Manufacturing Co., St. Louis, Mo. Washing compound. Serial No. 645,061, Jan. 26. Class 52.
Park, Philip R., Inc., San Pedro, Calif. Livestock and poultry feed product. Serial No. 620,620, Jan. 26. Class 46.
Patriarca, Domenico, Cranston, R. I. Humidifiers for cigars. Serial No. 647,651, Jan. 26. Class 8.
Perfect Circle Corporation, Hagerstown, Ind. Bearing adjusters. Serial No. 651,731, Jan. 26. Class 35.
Permacel Tape Corporation: *See*—
Industrial Tape Corporation.
Peter Paul, Inc., Naugatuck, Conn. Candy. Serial No. 648,944, Jan. 26. Class 46.
Pharma-Craft Corporation, The, New York, N. Y. Hair tonic. Serial No. 637,527, Jan. 26. Class 51.
Porter, Fedil C., doing business as Gulf Coast Organic & Minerals Co., Pharr, Tex. Organic soil conditioner and fertilizer. Serial No. 639,774, Jan. 26. Class 10.
Postilion, The, Fond du Lac, Wis. Hard sauces, vinegar sauces. Serial No. 645,257, Jan. 26. Class 46.
Procter & Gamble Company, The, Cincinnati, Ohio. Hair dressing. Serial No. 635,884, Jan. 26. Class 51.
Ramirez, R. R., doing business as Tendresse Cosmetics, San Francisco, Calif. Facial and body oil. Serial No. 634,383, Jan. 26. Class 51.
Rat-A-Gat, King, Wis. Wooden toy machine guns. Serial No. 653,876, Jan. 26. Class 22.
Remington Rand Inc., New York, N. Y. Photographing cameras and parts thereof. Serial No. 650,122, Jan. 26. Class 26.
Remington Rand Inc., New York, N. Y. Combined photographic printer and dryer. Serial No. 650,123, Jan. 26. Class 26.
Revlon Products Corporation, New York, N. Y. Bath cologne. Serial No. 650,936, Jan. 26. Class 51.
Robertshaw-Fulton Controls Company, Greensburg, Pa. Electrically operated indicating, recording, and controlling instruments. Serial No. 649,960, Jan. 26. Class 26.
Roebling's, John A., Sons Company, Trenton, N. J. Fastenings, fittings, and attachments for wire, wire strand or rope. Serial No. 602,638, Jan. 26. Class 13.
Rogers, Lunt & Bowlen Company, doing business as Lunt Silversmiths, Greenfield, Mass. Knives, forks, spoons, etc. Serial No. 649,251, Jan. 26. Class 28.
Ross, Walter W., and Company, Inc., doing business as Beta Sigma Phi and Beta Sigma Phi International, Kansas City, Mo. Encouraging members to take an interest in social, cultural and educational affairs, etc. Serial No. 605,614, Jan. 26. Class 100.
Ruberoid Co., The, Bound Brook, N. J., and New York, N. Y. Asbestos fiber. Serial No. 641,467, Jan. 26. Class 1.
Scheidt, Adam, Brewing Co., Norristown, Pa. Ale. Serial No. 646,235, Jan. 26. Class 48.
Scheidt, Adam, Brewing Co., Norristown, Pa. Beer. Serial Nos. 646,236–9, Jan. 26. Class 48.
Schutzbank, Victor, trading as Easy Foot Research Laboratories, Brooklyn, N. Y. Preparation for the treatment of athlete's foot, irritation between the toes and foul smelling and sweating feet. Serial No. 648,265, Jan. 26. Class 18.
Selmer, H. & A., Inc., Elkhart, Ind. Twirling batons. Serial No. 629,462, Jan. 26. Class 36.
Sewing Machines Sales Corp., New York, N. Y. Sewing machines. Serial No. 650,328, Jan. 26. Class 23.
Silver, Chas. B., & Son, Havre de Grace, Md. Canned foodstuffs. Serial No. 648,628, Jan. 26. Class 46.
Smith Equipment and Supply Co., Chicago, Ill. Plant food (fertilizer). Serial No. 648,057, Jan. 26. Class 10.
South Shore Printers: *See*—
Mitziga, Walter.
Southern Dairies, Inc., Washington, D. C. Heavy liquid chocolate flavored milk drink. Serial No. 637,322, Jan. 26. Class 46.
Spudette Company, The: *See*—
Granny Goose Foods.
Stanley Works, The, New Britain, Conn. Rules. Serial No. 647,557, Jan. 26. Class 26.
Stark Foundry Company, The, Canton, Ohio. Gray and white iron castings. Serial Nos. 651,623–5, Jan. 26. Class 14.
Stern Brothers, New York, N. Y. Playing cards, dolls, doll carriages, etc. Serial No. 639,495, Jan. 26. Class 22.
Strauss, John E., St. Paul, Minn. Figure skates. Serial No. 644,076, Jan. 26. Class 22.
Sunset Line & Twine Co., Petaluma, Calif. Fishing lines. Serial No. 648,440, Jan. 26. Class 22.
Swift & Company, Chicago, Ill. Cattle feed. Serial No. 632,104, Jan. 26. Class 46.
Szakacs, Joseph J., doing business as Custom Hydrocraft, San Diego, Calif. Sail and motor powered catamaran type boats and structural parts thereof. Serial No. 650,463, Jan. 26. Class 19.
Taylor Fireworks Company: *See*—
Taylor, W. J.
Taylor, W. J., doing business as Taylor Fireworks Company, Kansas City, Kans. Fireworks. Serial No. 647,665, Jan. 26. Class 9.
Technicolor Motion Picture Corporation, Hollywood, Calif. Motion picture film. Serial No. 649,842, Jan. 26. Class 26.
Tendresse Cosmetics: *See*—
Ramirez, R. R.
Tesco Chemicals, Inc., Atlanta, Ga. Cleaning compound. Serial No. 645,083, Jan. 26. Class 52.
Toni Company, The: *See*—
Gillette Company, The.
Towle Manufacturing Company, Newburyport, Mass. Sterling silver and sterling silver mounted flatware and table cutlery. Serial No. 650,555, Jan. 26. Class 28.
U-Geta Company, The: *See*—
Ward, John L.
United States Gypsum Company, Chicago, Ill. Gypsum plaster. Serial No. 650,291, Jan. 26. Class 12.
United States Plywood Corporation, New York, N. Y. Laminated resinous material. Serial No. 629,979, Jan. 26. Class 12.
Walker Laboratories, Inc., Mount Vernon, N. Y. Vitamin preparation. Serial No. 641,648, Jan. 26. Class 18.
Ward, John L., doing business as The U-Geta Company, Valparaiso, Ind. Meat sauce. Serial No. 650,466, Jan. 26. Class 46.
Warwick Company, The, Lincoln Park, R. I. Pipe fittings. Serial No. 649,552, Jan. 26. Class 13.
Warwick Typographers, Inc., St. Louis, Mo. Lithographic reproduction proofs. Serial No. 641,361, Jan. 26. Class 38.
Wasco Flashing Company, Cambridge, Mass. Plastic domes, skylight units, ceiling dome units, etc. Serial No. 646,833, Jan. 26. Class 12.
Washington Pacific Sales, Inc., Seattle, Wash. Frozen fruits and vegetables. Serial No. 645,275, Jan. 26. Class 46.
Watkins, J. R., Company, The, Winona, Minn. Perfume, cologne, bath salts, etc. Serial No. 649,854, Jan. 26. Class 51.
Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Resorcinol formaldehyde, dextrin, phenolic, and vinyl type adhesives. Serial No. 637,016, Jan. 26. Class 5.
Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Lubricating oils, and lubricating greases. Serial No. 637,017, Jan. 26. Class 15.
Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. High conductivity, heat resistant, creep resistant, brazing, and magnetic alloys, etc. Serial No. 637,022, Jan. 26. Class 14.
Wolcott Company, The, Hartford, Conn. Cleaning compounds. Serial No. 649,268, Jan. 26. Class 52.
Wollman, B., & Bros. Inc., New York, N. Y. United States mutation ranch mink coats, stoles, jackets, and neckpieces. Serial No. 636,044, Jan. 26. Class 39.
Young, W. T., Foods Inc., Lexington, Ky. Peanut butter and shelled and unshelled peanuts, salted peanuts. Serial No. 645,211, Jan. 26. Class 46.
Zenith Radio Corporation, Chicago, Ill. Motion picture films. Serial No. 649,859, Jan. 26. Class 26.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Medicinal preparation. 585,144, Jan. 26; Serial No. 646,092, published Oct. 20, 1953. Class 18.

Aerovox Corporation, New Bedford, Mass. Printed electric circuit assemblies. 585,033, Jan. 26; Serial No. 628,604, published Oct. 13, 1953. Class 21.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Vibrating screens. 585,015, Jan. 26; Serial No. 616,582, published Sept. 22, 1953. Class 23.

American Alcolac Corporation, Fairfield, Baltimore, Md. Lauryl sulfate. 585,138, Jan. 26; Serial No. 645,527, published Oct. 27, 1953. Class 6.

American Chemical Paint Company, Ambler, Pa. Lubricants. 585,125, Jan. 26; Serial No. 644,707, published Oct. 6, 1953. Class 15.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. 585,177–8, Jan. 26; Serial Nos. 637,679–80. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. 585,179–81, Jan. 26; Serial Nos. 637,682–4. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. 585,182–4, Jan. 26; Serial Nos. 637,688–90. Class 44.

American Foundry Equipment Company, The, by American Wheelabrator & Equipment Corporation, Mishawaka, Ind. Machines for discharging streams of abrasive particles to clean castings, sheet metal, and the like. 306,045, Sept. 5, 1933. Republished Jan. 26. Class 23.

American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Intestinal parasiticide. 585,116, Jan. 26; Serial No. 644,209, published Oct. 13, 1953. Class 18.

American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Rubefacient medicinal cream. 585,120, Jan. 26; Serial No. 644,379, published Oct. 27, 1953. Class 18.

American Machine and Metals, Inc.: *See*—
Halpern, Walter J.

American Wheelabrator & Equipment Corporation: *See*—
American Foundry Equipment Company, The.

Anderson Clarke, Incorporated, Wildwood, N. J. Insecticides. 585,110, Jan. 26; Serial No. 643,142, published Oct. 27, 1953. Class 6.

Anderson-Peck Enterprises, Cincinnati, Ohio. Dog shampoo soap. 585,048, Jan. 26; Serial No. 633,906, published Oct. 20, 1953. Class 52.

Ardalt Inc., New York, N. Y. Vases, flowerpots and boxes, dishes, porcelain jars. 585,175, Jan. 26; Serial No. 634,626. Class 30.

Armour and Company, Chicago, Ill. Veterinary adrenocorticotropic hormone compositions. 585,139, Jan. 26; Serial No. 645,528, published Oct. 13, 1953. Class 18.

Atlantic Lobster House, Inc., Charlestown, Mass. Packaged frozen clam chowder, lobster bisque, lobster Newberg, etc. 585,045. Jan. 26; Serial No. 633,749, published Nov. 24, 1953. Class 46.

Austenal Laboratories, Inc., assignee: *See*—
State Dental Technicians, Inc.

Austin, James, Company, Mars, Pa. Bleach for laundry and household uses. 585,147, Jan. 26; Serial No. 646,257, published Oct. 27, 1953. Class 6.

Bailey & Blendinger Mfg. Co., Woburn, Mass., to Committee of Creditors for Bailey & Blendinger Co., Inc., Union, N. H. Machine-knives, belt-knives, and leather-knives. 40,972, re-renewed Aug. 18, 1953. O. G. Jan. 26. Class 23.

Bailey, Malcolm, Sr., doing business as Hydra-Lube Oil Sales, Tampa, Fla. Penetrating oil. 585,089, Jan. 26; Serial No. 640,900, published Oct. 20, 1953. Class 15.

Banana Syrup Co.: *See*—
Ortega, Nicholas.

Barr Bros. Co.: *See*—
Haycraft, S. E.

Baxter, Don, Inc., Glendale, Calif. Solutions of dextrose or other preservatives for storing plasma, serum, or other blood products. 585,023, Jan. 26; Serial No. 620,567, published Oct. 6, 1953. Class 18.

Baxter Laboratories, Inc., Morton Grove, Ill. Solutions of dextrose or other preservatives for storing plasma, serum, or other blood products. 585,024, Jan. 26; Serial No. 620,577, published Oct. 6, 1953. Class 18.

Berry Bros. & Co., by Berry Bros. & Rudd Limited, London, England, Spirits. 306,022, Sept. 5, 1933. Republished Jan. 26. Class 49.

Berry Bros. & Co., by Berry Bros. & Rudd Limited, London, England. Scotch whisky. 307,412, Oct. 24, 1933. Republished Jan. 26. Class 49.

Berry Bros. & Rudd Limited: *See*—
Berry Bros. & Co.

Bloomingdale Bros.: *See*—
Federated Department Stores, Inc.

Bolta Products Sales, Inc., Lawrence, Mass. Sheets of plastic synthetic resin. 585,003–4, Jan. 26; Serial Nos. 603,982–3, published Oct. 20, 1953. Class 1.

Borden Company, The, New York, N. Y. Poultry feed supplement. 585,106, Jan. 26; Serial No. 642,936, published Oct. 27, 1953. Class 18.

Brand, William, and Co. Inc., The, Willimantic, Conn. Electrical insulations. 585,126, Jan. 26; Serial No. 644,725, published Oct. 13, 1953. Class 21.

Brand, William, and Co. Inc., The, Willimantic, Conn. Insulation, namely plastic insulating tubing to cover insulating material intended for electrical insulation. 585,127–8, Jan. 26; Serial Nos. 644,726–7, published Oct. 13, 1953. Class 21.

Brand, William, and Co. Inc., The, Willimantic, Conn. Electrical insulations. 585,129–30, Jan. 26; Serial Nos. 644,728–9, published Oct. 13, 1953. Class 21.

Brand, William, and Co. Inc., The, Willimantic, Conn. Insulating materials for electrical insulation. 585,131, Jan. 26; Serial No 644,730, published Oct. 13, 1953. Class 21.

Brea Chemicals, Inc., Los Angeles, Calif. Ammonia and ammonium compounds. 585,148, Jan. 26; Serial No. 646,358, published Oct. 27, 1953. Class 6.

Bryant, Jayne, Chicago, Ill. Restraining blankets or sheets. 585,044, Jan. 26; Serial No. 633,485, published Sept. 15, 1953. Class 44.

Burndy Engineering Company, Inc., New York, N. Y. Splice for electrical conductors. 585,011, Jan. 26; Serial No. 612,584, published Oct. 13, 1953. Class 21.

Cabot, Godfrey L., Inc., Boston, Mass. Clays. 585,095, Jan. 26; Serial No. 641,713, published Oct. 1, 1953. Class 1.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. 585,117, Jan. 26; Serial No. 644,217, published Oct. 27, 1953. Class 6.

Camembert Industrie Helsing, Hirschle & Immler, Helsing, Germany. Cheese. 309,358, Jan. 9, 1934. Republished Jan. 26. Class 46.

Candle-Lite, Inc., Cincinnati, Ohio. Candles. 585,090, Jan. 26; Serial No. 641,012, published Oct. 6, 1953. Class 15.

Carter, Macy Company, Inc., New York, N. Y. Tea. 585,158, Jan. 26; Serial No. 645,229. Class 46.

Casati Ernesto & Figli-Caser, Milan and Pavia, Italy. Radial drills, special boring machines, lathes, and sewing machines. 585,054, Jan. 26; Serial No. 635,110, published Sept. 22, 1953. Class 23.

Causyth S. p. A., Milano, Italy. Medicinal and pharmaceutical preparations. 585,039, Jan. 26; Serial No. 630,388, published Oct. 27, 1953. Class 18.

Champion Products, Inc., Stephenville, Tex. Additive for motor oil and gasoline. 585,002, Jan. 26; Serial No. 596,075, published Oct. 20, 1953. Class 15.

Chatham, Carroll F., doing business under the name Chatham Research Laboratories, San Francisco, Calif. Unmounted gems. 585,064, Jan. 26; Serial No. 636,584, published Oct. 20, 1953. Class 28.

Chatham Research Laboratories: *See*—
Chatham, Carroll F.

Chicago Sanitary Products Co., doing business as V-G Manufacturing Co., Chicago, Ill. Skin cleanser in the nature of a detergent or soap. 585,101, Jan. 26; Serial No. 642,266, published Oct. 27, 1953. Class 52.

Chilton Paint Company, College Point, N. Y. Ready-mixed paints. 585,161, Jan. 26; Serial No. 564,370. Class 16.

Clarke, John, & Co., Inc., New York, N. Y. Mildew preventative and moth killer. 585,067, Jan. 26; Serial No. 636,838, published Oct. 27, 1953. Class 6.

Colgate-Palmolive Company: *See*—
Colgate-Palmolive-Peet Company.

Colgate-Palmolive-Peet Company, Jersey City, N. J., now by change of name, Colgate-Palmolive Company. Soap. 585,032, Jan. 26; Serial No. 628,396, published June 9, 1953. Class 52.

Committee of Creditors for Bailey & Blendinger Co., Inc.: *See*—
Bailey & Blendinger Mfg. Co.

Continental Oil Company, Ponca City, Okla. Liquefied petroleum gases. 585,122, Jan. 26; Serial No. 644,602, published Oct. 27, 1953. Class 6.

Cook's, Adam, Sons, Inc., Linden, N. J. Lubricating grease. 585,087, Jan. 26; Serial No. 640,500, published Oct. 20, 1953. Class 15.

Cooperstown Chemical, Inc., Cooperstown, N. Y. Cleansing, sanitizing and deodorizing material for eggs. 585,028, Jan. 26; Serial No. 625,462, published Oct. 27, 1953. Class 52.

Cork Distilleries Company Limited, Morrisons Island, Cork, Ireland. Whisky. 310,096, Feb. 13, 1934. Republished Jan. 26. Class 49.

Cork Distilleries Company Limited, Morrisons Island, Cork, Ireland. Whisky. 310,857, Mar. 13, 1934. Republished Jan. 26. Class 49.

Corneli Seed Company, St. Louis, Mo. Garden and field seeds and bulbs. 585,061, Jan. 26; Serial No. 636,346, published Oct. 6, 1953. Class 1.

Creamery Sales Co.: *See*—
Creamery Sales Company, Inc.

Creamery Sales Company, Inc., doing business as Creamery Sales Co., East Point, Ga. Ice cream sandwiches. 585,172, Jan. 26; Serial No. 628,613. Class 46.

Daimler-Benz Aktiengesellschaft: *See*—
Daimler-Motoren-Gesellschaft.

Daimler-Motoren-Gesellschaft, Cannstadt, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany. Carriages of all kinds, including motor-cars, etc. 41,127, re-renewed Sept. 15, 1953. O. G. Jan. 26. Class 23.

Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany. Machinery castings, anchors, bed-plates, etc. 91,856, re-renewed June 3, 1953. O. G. Jan. 26. Class 14.

Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany. Picture-frames, mirrors, bedsteads, etc. 91,951, re-renewed June 10, 1953. O. G. Jan. 26. Class 32.

Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany. Soldering-lamps, hot-water foot-warmers, foot-warmers, etc. 91,952, re-renewed June 10, 1953. O. G. Jan. 26. Class 34.

Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany. Saws, hammers, chisels, etc. 93,082, re-renewed Aug. 19, 1953. O. G. Jan. 26. Class 23.

Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany. Carriages, cabs, coaches, carts. 93,698, re-renewed Oct. 14, 1953. O. G. Jan. 26. Class 19.

Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany. Flying-machines, aeroplanes, monoplanes, etc. 94,066, re-renewed Nov. 4, 1953. O. G. Jan. 26. Class 19.

Davies-Young Soap Company, The, Dayton, Ohio. Paste cleaners, waterless cleaners, etc. 585,053, Jan. 26; Serial No. 634,777, published Oct. 20, 1953. Class 52.

Dawson, Peter, Dufftown, to Peter Dawson Limited, Glasgow, Scotland. Scotch whisky. 40,916, re-renewed Aug. 11, 1953. O. G. Jan. 26. Class 49.

Dawson, Peter, Limited: *See*—
Dawson, Peter.

Decatur Pump Company, Decatur, Ill. Electric water pumps. 331,464, Jan. 7, 1936. Republished Jan. 26. Class 23.

Dick, A. B., Company, Niles, Ill. Liquids for use in a duplicating process. 585,133, Jan. 26; Serial No. 645,124, published Oct. 27, 1953. Class 6.

Dittmer Gear and Manufacturing Corp., Lockport, N. Y. Spur and helical gears, shafts, hubs, etc. 585,037, Jan. 26; Serial No. 629,657, published Sept. 22, 1953. Class 23.

Dolge, C. B., Company, The, Westport, Conn. Synthetic detergent. 585,092, Jan. 26; Serial No. 641,128, published Oct. 27, 1953. Class 52.

Dries, Ann N., Bayside, N. Y. Home economist services. 585,155, Jan. 26; Serial No. 636,351, published Oct. 20, 1953. Class 107.

Dry-O-Matic Company, The, Detroit, Mich. Apparatus for training a child to prevent bedwetting, such apparatus comprising an electrical circuit, a sound-producing signal controlled by such circuit, etc. 585,112, Jan. 26; Serial No. 643,584, published Oct. 27, 1953. Class 21.

Ecusta Paper Corporation, Pisgah Forest, N. C. Bible and printing papers. 585,043, Jan. 26; Serial No. 632,359, published Oct. 27, 1953. Class 37.

Edgewood Farms, Inc., Marysville, Ohio. Grass seed. 585,123–4, Jan. 26; Serial Nos 644,605–6, published Oct. 20, 1953. Class 1.

Electric Sprayit Company, The, Sheboygan, Wis. Vacuum and pressure air pumps, spray guns, air and gas compressors and parts therefor. 585,038, Jan. 26; Serial No. 629,996, published Sept. 22, 1953. Class 23.

Electro Manufacturing Corporation, Chicago, Ill. Fluorescent lighting apparatus. 585,034, Jan. 26; Serial No. 629,156, published Oct. 27, 1953. Class 21.

Excelsior Milling Company, Minneapolis, Minn. Stock food. 364,513, Feb. 7, 1939. Republished Jan. 26. Class 46.

Fabergé, Inc., New York, N. Y. Soap. 585,085, Jan. 26; Serial No. 640,150, published Oct. 20, 1953. Class 52.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Synthetic detergents. 585,065, Jan. 26; Serial No. 636,782, published Oct. 20, 1953. Class 52.

Fascination Candy Co., Inc., Chicago, Ill. Candies. 585,010, Jan. 26; Serial No. 610,432, published Dec. 9, 1952. Class 46.

Federal Distributing Co., Inc., Kansas City, Mo. Chemicals. 585,113, Jan. 26; Serial No. 643,829, published Oct. 27, 1953. Class 6.

Federated Department Stores, Inc., Cincinnati, Ohio, doing business under the name Bloomingdale Bros., New York, N. Y. Men's wearing apparel. 585,114, Jan. 26; Serial No. 643,947, published Sept. 1, 1953. Class 39.

Ferrell, A. T., & Co., Saginaw, Mich. Machines for the handling, cleaning, grading and treating of seeds and grain. 585,017, Jan. 26; Serial No. 618,735, published Sept. 22, 1953. Class 23.

Ferry-Morse Seed Co., Detroit, Mich. Seeds. 585,167, Jan. 26; Serial No. 620,410. Class 1.

Fletcher Paper Company, Alpena, Mich. Printing paper. 585,026, Jan. 26; Serial No. 623,539, published Oct. 27, 1953. Class 37.

Florida Fashions, Inc., Orlando, Fla. Ladies' and children's dresses and coats. 585,121, Jan. 26; Serial No. 644,499, published Nov. 3, 1953. Class 39.

Gebr. Wernli, Biscuitsfabrik Trimbach-Olten, Trimbach, Switzerland. Biscuits and cookies. 585,174, Jan. 26; Serial No. 634,325. Class 46.

Gillette Company, The, Boston, Mass. Shampoo. 585,052, Jan. 26; Serial No. 634,588, published Oct. 27, 1953. Class 52.

Goetze-Niemer Physician & Dental Supply Co., Inc., St. Joseph, Mo. Hypodermic syringes. 585,157, Jan. 26; Serial No. 641,184. Class 44.

Goodies Spud Chip Co.: *See*—
Madden, Ethel J.

Gordon Chemical Co., Inc., Kansas City, Mo. Liquid wood preservative. 585,022, Jan. 26; Serial No. 620,502, published Oct. 27, 1953. Class 6.

Gotham Instrument Company: *See*—
Halpern, Walter J.

Gruen Watch Company, The, Cincinnati, Ohio. Watches, watch cases, and watch movements. 585,166, Jan. 26; Serial No. 619,240. Class 27.

Guardian Chemical Corporation, Long Island City, N. Y. Ink and dye eradicator. 585,099, Jan. 26; Serial No. 642,222, published Oct. 27, 1953. Class 52.

Halpern, Walter J., doing business as Gotham Instrument Company, New York, N. Y., by American Machine and Metals, Inc., Sellersville, Pa. Indicating and recording thermometers and various types of thermometers. 399,965, Feb. 9, 1943. Republished Jan. 26. Class 34.

Harbor Plywood Corporation, Aberdeen, Wash. Panels for concrete form construction. 585,071, Jan. 26; Serial No. 637,275, published Oct. 20, 1953. Class 12.

Haycraft, S. E., doing business as Barr Bros. Co., Oakland, Calif. Hand tools. 585,035, Jan. 26; Serial No. 629,571, published Sept. 22, 1953. Class 23.

Healy, Clarence J., South St. Paul, Minn. Wall shelves. 585,107, Jan. 26; Serial No. 642,969, published Oct. 20, 1953. Class 32.

Hearne Brothers, Detroit, Mich. Periodical street guides and maps. 305,744, renewed Aug. 22, 1953. O. G. Jan. 26. Class 38.

Heim, Jacques, Paris, France. Ladies' and misses' coats, suits, dresses, etc. 585,153, Jan. 26; Serial No. 647,004, published Oct. 20, 1953. Class 39.

Henning, Paul F. W., Chicago, Ill. Antidote for alcoholism or fatigue. 585,040, Jan. 26; Serial No. 630,494, published June 30, 1953. Class 18.

Hershel California Fruit Products Co., San Jose, Calif. Food products. 585,012, Jan. 26; Serial No. 614,405, published Jan. 8, 1952. Class 46.

Hormo-Pharma Limited, London, England. Tonic medicine. 585,100, Jan. 26; Serial No. 642,224, published Oct. 27, 1953. Class 18.

Houbigant, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 309,266, renewed Jan. 9, 1954. O. G. Jan. 26. Class 51.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Stalls, partitions, cattle pen panels, etc. 585,103, Jan. 26; Serial No. 642,644, published Sept. 15, 1953. Class 12.

Hydra-Lube Oil Sales: *See*—
Bailey, Malcolm, Sr.

Hydramotive, Inc., Cleveland, Ohio. Hydraulically operated cranking motors. 585,115, Jan. 26; Serial No. 643,958, published Sept. 22, 1953. Class 23.

International Biochemical Corporation, Brooklyn, N. Y. Nutritional and therapeutic preparation. 585,149, Jan. 26; Serial No. 646,473, published Oct. 27, 1953. Class 18.

International Sisal Company, Minneapolis, Minn. Sweeping compound. 585,042, Jan. 26; Serial No. 631,621, published Oct. 27, 1953. Class 52.

Irvington Varnish & Insulator Company, Irvington, N. J., assignor to Minnesota Mining and Manufacturing Company, St. Paul, Minn. Furfuraldehyde-ketone reaction products. 585,151, Jan. 26; Serial No. 646,616, published Oct. 27, 1953. Class 6.

Istituto Farmacoterapico Italiano, Rome, Italy. Pharmaceutical preparation. 585,056, Jan. 26; Serial No. 635,364, published Oct. 27, 1953. Class 18.

Jaymar Specialty Company, New York, N. Y. Jigsaw puzzles and cardboard pushout toys. 585,152, Jan. 26; Serial No. 646,671, published Oct. 20, 1953. Class 22.

Karg Brothers, Inc., Johnstown, N. Y. Leather. 585,074, Jan. 26; Serial No. 638,365, published Oct. 27, 1953. Class 1.

Karlsruher Parfumerie- und Toilettenseifenfabrik F. Wolff & Sohn, Gesellschaft mit beschrankter Haftung, Karlsruhe, Baden, Germany. Toilet soap. 585,041, Jan. 26; Serial No. 630,598, published Oct. 20, 1953. Class 52.

Kellems, Vivien, Stonington, Conn. Women's dresses. 585,069, Jan. 26; Serial No. 636,932, published Oct. 20, 1953. Class 39.

Kjellström, Björn, La Porte, Ind. Serving trays, sets of serving trays, tray tables, collapsible tables, etc. 585,073, Jan. 26; Serial No. 637,998, published Oct. 27, 1953. Class 32.

Knox Company, The, Los Angeles, Calif. Medicated cream, pomade or ointment. 585,145, Jan. 26; Serial No. 646,139, published Oct. 27, 1953. Class 18.

Koch Manufacturing Company: *See*—
Peters & Russell, Inc.

Kress, S. H., and Company, New York, N. Y. Soap. 585,019, Jan. 26; Serial No. 619,091, published Oct. 20, 1953. Class 52.

Le Gear, Dr., L. D., Medicine Company, St. Louis, Mo. Therapeutic mineral and vitamin supplement. 585,008, Jan. 26; Serial No. 607,554, published Oct. 27, 1953. Class 18.

Liebenguth, Jeanne, doing business as Jeanne Noël, Grasse, France, and New York, N. Y. Perfumes. 585,029, Jan. 26; Serial No. 625,912, published June 9, 1953. Class 51.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 585,084, Jan. 26; Serial No. 640,068, published Oct. 13, 1953. Class 18.

Livingston Company, The, Woodbridge, Conn. Cleaning and polishing composition. 585,063, Jan. 26; Serial No. 636,484, published Oct. 20, 1953. Class 4.

MacArthur, Arthur R., doing business under the name and style of MacArthur Farms, Janesville, Wis. Fur pelts. 585,075, Jan. 26; Serial No. 638,803, published Oct. 1, 1953. Class 1.

MacArthur Farms: *See*—
MacArthur, Arthur R.

Madden, Ethel J., doing business as Goodies Spud Chip Co., Billings, Mont. Cheese crisps. 585,164, Jan. 26; Serial No. 597,621. Class 46.

Magirl Foundry & Furnace Co.: *See*—
Magirl, P. H., Foundry & Furnace Works.

Magirl, P. H., Foundry & Furnace Works, by Magirl Foundry & Furnace Co., Bloomington, Ill. Warm-air heating, force circulating, and ventilating systems. 240,642, Apr. 3, 1928. Republished Jan. 26. Class 34.

Master Appliance Manufacturing Co., Racine, Wis. Electric hair dryers. 585,036, Jan. 26; Serial No. 629,578, published Oct. 20, 1953. Class 44.

Mathieson Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.

May, Ernest R., Albuquerque, N. Mex. Watermelon syrups. 585,059, Jan. 26; Serial No. 635,781, published Aug. 4, 1953. Class 46.

McKesson & Robbins, Incorporated, New York, N. Y., and Fairfield, Conn. Preparation for the relief of stomach disorders. 585,140, Jan. 26; Serial No. 646,001, published Oct. 13, 1953. Class 18.

McLean, Dr., J. H., Medicine Company, The, St. Louis, Mo. Tonic medicine. 585,150, Jan. 26; Serial No. 646,564, published Oct. 27, 1953. Class 18.

Mermaid Crab Meat Products Corporation, Daytona Beach, Fla. Frozen crab rolls, frozen deviled crab, and frozen fresh breaded scallops. 585,159, Jan. 26; Serial No. 646,886. Class 46.

Metal Tile Products, Inc., Hastings, Mich. Aluminum awnings and shelter canopies. 585,169, Jan. 26; Serial No. 623,062. Class 12.

Meyer, O. W., Napoleon, Ohio. Feed supplement. 585,146, Jan. 26; Serial No. 646,228, published Oct. 27, 1953. Class 18.

Mid-Continent Chemical Co. Inc., South Bend, Ind. Detergent. 585,031, Jan. 26; Serial No. 627,955, published Oct. 27, 1953. Class 52.

Minnesota Mining and Manufacturing Company, assignee: *See*—
Irvington Varnish & Insulator Company.

Moore, Ruth E., Washington, D. C. Amulet made of precious metal. 585,086, Jan. 26; Serial No. 640,350, published Oct. 27, 1953. Class 28.

Moore, Ruth E., Washington, D. C. Amulet made of precious metal. 585,094, Jan. 26; Serial No. 641,685, published Oct. 27, 1953. Class 28.

Moorman Manufacturing Company, Quincy, Ill. Mineralized concentrate. 585,168, Jan. 26; Serial No. 620,681. Class 18.

Morton Salt Company: *See*—
Worcester Salt Company.

Mundet Cork Corporation, North Bergen, N. J. Raw cork and cut cork. 585,049, Jan. 26; Serial No. 634,209, published Oct. 20, 1953. Class 1.

N. V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia, Amsterdam, Netherlands. Pharmaceutical preparation. 585,108, Jan. 26; Serial No. 642,983, published Oct. 27, 1953. Class 18.

Nelson Bros. Fisheries Limited, Vancouver, British Columbia, Canada. Canned patties or croquettes. 585,165, Jan. 26; Serial No. 616,568. Class 46.

Nestle-Le Mur Company, The, New York, N. Y. Liquid hair preparation. 585,160, Jan. 26; Serial No. 646,888. Class 51.

New River and Pocahontas Consolidated Coal Company, Philadelphia, Pa. Coal. 585,062, Jan. 26; Serial No. 636,375, published Oct. 6, 1953. Class 1.

Noël, Jeanne: *See*—
Liebenguth, Jeanne.

O. K. Ko-Op Rubber Welding System, Littleton, Colo. Tire recapping and retreading materials. 585,141, Jan. 26; Serial No. 646,007, published Oct. 6, 1953. Class 35.

Old Copper Mine Farms Inc., Warrenville, N. J. Miniature greenhouses. 585,171, Jan. 26; Serial No. 627,457. Class 50.

Ortega, Nicholas, doing business under the firm name and style of Banana Syrup Co., San Francisco, Calif. Banana syrup. 585,162, Jan. 26; Serial No. 590,558. Class 46.

Pacific Hygiene Products, Inc., Monrovia, Calif. Alkali softening and detergent composition. 585,057, Jan. 26; Serial No. 635,428, published Oct. 20, 1953. Class 52.

Packard Motor Car Company, Detroit, Mich. Vehicles. 585,082, Jan. 26; Serial No. 639,770, published Nov. 3, 1953. Class 19.

Pako Corporation, Minneapolis, Minn. Photographic apparatus and equipment. 388,732, July 8, 1941. Republished Jan. 26. Class 26.

Palms from Florida, Inc., Miami, Fla. Small growing palms. 585,118, Jan. 26; Serial No. 644,251, published Oct. 13, 1953. Class 1.

Parke, Davis & Company, Detroit, Mich. Medicinal combination. 585,058, Jan. 26; Serial No. 635,429, published Oct. 13, 1953. Class 18.

Parke, Davis & Company, Detroit, Mich. Non-alcoholic, aqueous vitamin solution. 585,142, Jan. 26; Serial No. 646,011, published Oct. 27, 1953. Class 18.

Parke, Davis & Company, Detroit, Mich. Anti-congulant. 585,143, Jan. 26; Serial No. 646,012, published Oct. 27, 1953. Class 18.

Parker Brothers, Inc., Portland, Maine, and Salem, Mass., to Parker Brothers, Inc., Salem, Mass. Game. 312,019, renewed Apr. 10, 1954. O. G. Jan 26. Class 22.

Pedi-Pak Products, Inc., Chicago, Ill. Polish for finger nails and toe nails. 585,105, Jan. 26; Serial No. 642,768, published Aug. 25, 1953. Class 51.

Peters & Russell, Inc., doing business as Koch Manufacturing Company, Springfield, Ohio. Automobile exhaust deflectors. 585,020, Jan. 26; Serial No. 619,257, published Sept. 22, 1953. Class 23.

Pettingill Products Limited, Mitcham, Surrey, England. Coatings and icings. 585,060, Jan. 26; Serial No. 635,785, published Mar. 3, 1953. Class 46.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. 585,134, Jan. 26; Serial No. 645,182, published Oct. 6, 1953. Class 18.

Phoenix Fuel Company, Louisville, Ky. Bituminous coal. 585,109, Jan. 26; Serial No. 643,115, published Oct. 6, 1953. Class 1.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Chemical composition. 585,093, Jan. 26; Serial No. 641,565, published Oct. 20, 1953. Class 6.

Poor & Company, Chicago, Ill. Corrosion inhibitor. 585,097, Jan. 26; Serial No. 642,044, published Oct. 20, 1953. Class 15.

Popper Morson Company, New York, N. Y., and Jersey City, N. J. Liqueur. 585,096, Jan. 26; Serial No. 641,967, published Sept. 29, 1953. Class 49.

Procter & Gamble Company, The, Cincinnati, Ohio. Sudsing cleaner, cleanser and detergent. 585,137, Jan. 26; Serial No. 645,337, published Oct. 20, 1953. Class 52.

Prospect Paint Company: *See*—
Siodlowski, Walter.

Pure Oil Company, The, Chicago, Ill. Dripless oil, lubricating and penetrating oil, household oil, etc. 585,005, Jan. 26; Serial No. 604,225, published Oct. 20, 1953. Class 15.

Pure Oil Company, The, Chicago, Ill. Viscous mineral oil for use in the industrial arts. 585,132, Jan. 26; Serial No. 644,788, published Oct. 6, 1953. Class 15.

Reed, Austin, Limited, London, England. Dress clothing. 585,001, Jan. 26; Serial No. 528,422, published Sept. 1, 1953. Class 39.

Reflectone Corporation, The, Stamford, Conn. Lubricating oils. 585,066, Jan. 26; Serial No. 636,804, published Oct. 20, 1953. Class 15.

Richmond, Earl, Toledo, Ohio. Salve for relief of piles, liniment, preparation for relief of soreness of muscles and joints, etc. 585,076, Jan. 26; Serial No. 639,340, published Sept. 22, 1953. Class 18.

Rockwood & Co., Brooklyn, N. Y. Candy. 585,163, Jan. 26; Serial No. 592,281. Class 46.

Royle, John, & Sons, Paterson, N. J. Electrically heated extruder cylinders. 585,104, Jan. 26; Serial No. 642,694, published Sept. 22, 1953. Class 23.

Rubber and Plastics Compound Co., Inc., New York, N. Y. Protective material sold in sheet form composed of spun glass fibers, synthetic rubber fibers. 585,072, Jan. 26; Serial No. 637,952, published Oct. 1, 1953. Class 1.

Rubinstein, Helena, Inc., New York, N. Y. Hand lotion. 585,007, Jan. 26; Serial No. 604,809, published Apr. 15, 1952. Class 51.

Rubinstein, Helena, Inc., New York, N. Y. Toilet soap, face soap, hand soap, etc. 585,013, Jan. 26; Serial No. 614,723, published Nov. 10, 1953. Class 52.

Sandoz, Henry, et Fils, La Chaux-de-Fonds, Switzerland. Horological instruments. 585,030, Jan. 26; Serial No. 627,789, published Oct. 20, 1953. Class 27.

Sardeau, Inc., New York, N. Y. Refined isomeric propylene myristin. 585,046, Jan. 26; Serial No. 633,878, published Oct. 27, 1953. Class 6.

Scholler Brothers, Inc., Philadelphia, Pa. Compositions for textile treatment. 585,088, Jan. 26; Serial No. 640,647, published Oct. 27, 1953. Class 6.

Seiler, Karl, & Sons, to Karl Seiler & Sons, Inc., Philadelphia, Pa. Liverwurst. 299,895, renewed Dec. 27, 1952. O. G. Jan. 26. Class 46.

Seiler, Karl, & Sons, Inc.: *See*—
Seiler, Karl, & Sons.

Signal Oil Company, assignor to Standard Oil Company of California, doing business as Signal Oil Company, Los Angeles, Calif. Flushing oil useful for removing abrasives and other by-products, etc. 585,014, Jan. 26; Serial No. 614,800, published Oct. 27, 1953. Class 52.

Siodlowski, Walter, doing business as Prospect Paint Company, Secaucus, N. J. Asphalt and asbestos roof cements, asphalt and asbestos liquid roof surfacings, asphalt and asbestos foundation surfacings, etc. 585,006, Jan. 26; Serial No. 604,601, published Apr. 14, 1953. Class 12.

Sioux Honey Association, Cooperative, Sioux City, Iowa. Honey. 585,154, Jan. 26; Serial No. 647,375, published Aug. 25, 1953. Class 46.

Sjostrom, John E., Company, Philadelphia, Pa. Laboratory furniture. 585,091, Jan. 26; Serial No. 641,096, published Oct. 27, 1953. Class 32.

Smith, L. C., & Corona Typewriter, Inc., Syracuse, N. Y. Reconditioned typewriters. 585,018, Jan. 26; Serial No. 618,823, published Sept. 22, 1953. Class 23.

Société à Responsabilité Limitée: Porgès, Sarlat (Dordogne) and Paris, France. Medical and surgical instruments. 585,050, Jan. 26; Serial No. 634,220, published Oct. 13, 1953. Class 44.

Société Secor, Paris, to Société Secor, Vichy, France. Toilet preparations. 307,725, renewed Oct. 31, 1953. O. G. Jan. 26. Class 51.

Southern Biscuit Company: *See*—
Weston Biscuit Company Inc.

Southland Coffee Company, Inc., Atlanta, Ga. Blend of coffee and chicory. 585,185, Jan. 26; Serial No. 651,135. Class 46.

Southwestern Petroleum Co., Inc., Fort Worth, Tex. High temperature resistant grease. 585,027, Jan. 26; Serial No. 624,426, published Sept. 2, 1952. Class 15.

Specialty Products Company, Jersey City, N. J. Resinous binder for sand cores. 585,156, Jan. 26; Serial No. 640,532. Class 5.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Vitaminic preparation. 585,055, Jan. 26; Serial No. 635,198, published Mar. 31, 1953. Class 18.

Standard Oil Company of California, assignee: *See*—
Signal Oil Company.

Star Bedding Co., St. Louis, Mo. Latex rubber pillows. 585,016, Jan. 26; Serial No. 616,926, published Dec. 2, 1952. Class 32.

State Dental Technicians, Inc., assignor to Austenal Laboratories, Inc., New York, N. Y. Dentures, metal castings of the stabilizing mesh-work for such dentures, etc. 585,051, Jan. 26; Serial No. 634,497, published Oct. 20, 1953. Class 44.

Stern Brothers, New York, N. Y. Travel clocks. 585,077, Jan. 26; Serial No. 639,497, published Oct. 27, 1953. Class 27.

Stern Brothers, New York, N. Y. Costume jewelry. 585,078, Jan. 26; Serial No. 639,498, published Oct. 27, 1953. Class 28.

Stern Brothers, New York, N. Y. Ceramic articles. 585,079, Jan. 26; Serial No. 639,499, published Oct. 27, 1953. Class 30.

Stern Brothers, New York, N. Y. Drinking glasses and tumblers, luncheon sets, bowles, etc. 585,080, Jan. 26; Serial No. 639,501, published Oct. 27, 1953. Class 33.

Stern Brothers, New York, N. Y. Costume jewelry. 585,081, Jan. 26; Serial No. 639,515, published Oct. 27, 1953. Class 28.

Success Wax Ltd., Quebec, Quebec, Canada. Floor wax. 585,047, Jan. 26; Serial No. 633,886, published Oct. 20, 1953. Class 4.

Sun Outdoor Products Company, Incorporated, Little Ferry, N. J. Marquees. 585,098, Jan. 26; Serial No. 642,180, published Oct. 20, 1953. Class 12.

Travers Bros., to M. A. & Ray L. Travers, Watsonville, Calif. Fresh deciduous fruit. 309,745, renewed Jan. 30, 1954. O. G. Jan. 26. Class 46.

Travers, M. A., & Ray L.: *See*—
Travers Bros.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

United States Raw Skins Tanners Inc., New York, N. Y. Leather. 585,170, Jan. 26; Serial No. 627,101. Class 1.

United States Rubber Company, New York, N. Y. Synthetic rubber latex. 585,135, Jan. 26; Serial No. 645,207, published Oct. 20, 1953. Class 1.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 585,136, Jan. 26; Serial No. 645,273, published Oct. 13, 1953. Class 18.

Utica Drop Forge & Tool Corporation, Utica, N. Y. Pliers. 585,176, Jan. 26; Serial No. 636,039. Class 23.

V-G Manufacturing Co.: *See*—
Chicago Sanitary Products Co.

V. G. Manufacturing Corp., Monrovia, Calif. Spark plugs. 585,021, Jan. 26; Serial No. 620,330, published Oct. 13, 1953. Class 21.

Violetta Chemical Co., Buffalo, N. Y. Sodium hypochlorite solution for use in washing clothes, etc. 585,025, Jan. 26; Serial No. 622,046, published July 15, 1952. Class 52.

Virginia Hickory Products Division, Marion Handle Mills, Inc., Marion, Va. Hickory wood disks. 585,119, Jan. 26; Serial No. 644,262, published Oct. 13, 1953. Class 1.

Wander Company, The, Chicago, Ill. Anesthetic preparation. 585,111, Jan. 26; Serial No. 643,388, published Oct. 27, 1953. Class 18.

Watkins, J. R., Company, The, Winona, Minn. Shampoo. 585,102, Jan. 26; Serial No. 642,584, published Sept. 15, 1953. Class 52.

Weston Biscuit Company Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va. Cakes, cookies, and crackers. 585,173, Jan. 26; Serial No. 632,404. Class 46.

White, Frank P., Company, Minneapolis, Minn. Liquid dye. 585,070, Jan. 26; Serial No. 637,098, published Oct. 27, 1953. Class 6.

White Laboratories, Inc., Kenilworth, N. J. Preparation containing antibiotic drugs. 585,083, Jan. 26; Serial No. 640,060, published Oct. 27, 1953. Class 18.

Winston and Newell Company, Minneapolis, Minn. Grocery items. 585,009, Jan. 26; Serial No. 610,243, published Apr. 21, 1953. Class 46.

Woolworth, F. W., Co., New York, N. Y. Bob pins. 585,068, Jan. 26; Serial No. 636,909, published Nov. 3, 1953. Class 40.

Worcester Salt Company, New York, N. Y., by Morton Salt Company, Chicago, Ill. Tooth paste. 306,059, Sept. 5, 1933. Republished Jan. 26. Class 51.

Wyeth Laboratories, Division of American Home Products Corporation: *See*—
American Home Products Corporation.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Clays. Godfrey L. Cabot, Inc. 585,095, Jan. 26; Serial No. 641,713, published Oct. 1, 1953.

Coal. New River and Pocahontas Consolidated Coal Company, Philadelphia, Pa. 585,062, Jan. 26; Serial No. 636,375, published Oct. 6, 1953.

Coal, Bituminous. Phoenix Fuel Company. 585,109, Jan. 26; Serial No. 643,115, published Oct. 6, 1953.

Fur pelts. A. R. MacArthur. 585,075, Jan. 26; Serial No. 638,803, published Oct. 1, 1953.

Hickory wood disks. Virginia Hickory Products Division, Marion Handle Mills, Inc. 585,119, Jan. 26; Serial No. 644,262, published Oct. 13, 1953.

Leather. Karg Brothers, Inc. 585,074, Jan. 26; Serial No. 638,365, published Oct. 27, 1953.

Leather. United States Raw Skins Tanners Inc. 585,170, Jan. 26; Serial No. 627,101.

Palms, Small growing. Palms from Florida, Inc. 585,118, Jan. 26; Serial No. 644,251, published Oct. 13, 1953.

Protective material sold in sheet form composed of spun glass fibers, synthetic rubber fibers. Rubber and Plastics Compound Co., Inc. 585,072, Jan. 26; Serial No. 637,952, published Oct. 1, 1953.

Raw cork and cut cork. Mundet Cork Corporation. 585,049, Jan. 26; Serial No. 634,209, published Oct. 20, 1953.

Seed, Grass. Edgewood Farms, Inc. 585,123–4, Jan. 26; Serial Nos. 644,605–6, published Oct. 20, 1953.

Seeds. Ferry-Morse Seed Co. 585,167, Jan. 26; Serial No. 620,410.

Seeds and bulbs, Garden and field. Corneli Seed Company. 585,061, Jan. 26; Serial No. 636,346, published Oct. 6, 1953.

Sheets of plastic synthetic resin. Bolta Products Sales, Inc. 585,003–4, Jan. 26; Serial Nos. 603,982–3, published Oct. 20, 1953.

Synthetic rubber latex. United States Rubber Company. 585,135, Jan. 26; Serial No. 645,207, published Oct. 20, 1953.

CLASS 4

Cleaning and polishing composition. The Livingston Company. 585,063, Jan. 26; Serial No. 636,484, published Oct. 20, 1953.

Wax, Floor. Success Wax Ltd. 585,047, Jan. 26; Serial No. 633,886, published Oct. 20, 1953.

CLASS 5

Resinous binder for sand cores. Specialty Products Company. 585,156, Jan. 26; Serial No. 640,532.

CLASS 6

Ammonia and ammonium compounds. Brea Chemicals, Inc. 585,148, Jan. 26; Serial No. 646,358, published Oct. 27, 1953.
Bleach for laundry and household uses. James Austin Company. 585,147, Jan. 26; Serial No. 646,257, published Oct. 27, 1953.
Carbon black. Godfrey L. Cabot, Inc. 585,117, Jan. 26; Serial No. 644,217, published Oct. 27, 1953.
Chemical composition. Physicians and Hospitals Supply Company, Inc. 585,093, Jan. 26; Serial No. 641,565, published Oct. 20, 1953.
Chemicals. Federal Distributing Co., Inc. 585,113, Jan. 26; Serial No. 643,829, published Oct. 27, 1953.
Compositions for textile treatment. Scholler Brothers, Inc. 585,088, Jan. 26; Serial No. 640,647, published Oct. 27, 1953.
Dye, Liquid. Frank P. White Company. 585,070, Jan. 26; Serial No. 637,098, published Oct. 27, 1953.
Furfuraldehyde-ketone reaction products. Irvington Varnish & Insulator Company. 585,151, Jan. 26; Serial No. 646,616, published Oct. 27, 1953.
Insecticides. Anderson Clarke, Incorporated. 585,110, Jan. 26; Serial No. 643,142, published Oct. 27, 1953.
Lauryl sulfate. American Alcolac Corporation. 585,138, Jan. 26; Serial No. 645,527, published Oct. 27, 1953.
Liquefied petroleum gases. Continental Oil Company. 585,122, Jan. 26; Serial No. 644,602, published Oct. 27, 1953.
Liquid wood preservative. Gordon Chemical Co., Inc. 585,022, Jan. 26; Serial No. 620,502, published Oct. 27, 1953.
Liquids for use in a duplicating process. A. B. Dick Company. 585,133, Jan. 26; Serial No. 645,124, published Oct. 27, 1953.
Mildew preventative and moth killer. John Clarke & Co., Inc. 585,067, Jan. 26; Serial No. 636,838, published Oct. 27, 1953.
Refined isomeric propylene myristin. Sardeau, Inc. 585,046. Jan. 26; Serial No. 633,878, published Oct. 27, 1953.

CLASS 12

Aluminum awnings and shelter canopies. Metal Tile Products, Inc. 585,169, Jan. 26; Serial No. 623,062.
Marquees. Sun Outdoor Products Company, Incorporated. 585,098, Jan. 26; Serial No. 642,180, published Oct. 20, 1953.
Panels for concrete form construction. Harbor Plywood Corporation. 585,071, Jan. 26; Serial No. 637,275, published Oct. 20, 1953.
Roof cements, Asphalt and asbestos, asphalt and asbestos liquid roof surfacings, asphalt and asbestos foundation surfacings, etc. W. Siodlowski. 585,006. Jan. 26; Serial No. 604,601, published Apr. 14, 1953.
Stalls, partitions, cattle pen panels, etc. H. D. Hudson Manufacturing Company. 585,103, Jan. 26; Serial No. 642,644, published Sept. 15, 1953.

CLASS 14

Machinery castings, anchors, bed-plates, etc. Daimler-Mortoren-Gesellschaft. 91,856, re-renewed June 3, 1953. O. G. Jan. 26.

CLASS 15

Additive for motor oil and gasoline. Champion Products, Inc. 585,002. Jan. 26; Serial No. 596,075, published Oct. 20, 1953.
Candles. Candle-Lite, Inc. 585,090. Jan. 26; Serial No. 641,012, published Oct. 6, 1953.
Corrosion inhibitor. Poor & Company. 585,097, Jan. 26; Serial No. 642,044, published Oct. 20, 1953.
Grease, High temperature resistant. Southwestern Petroleum Co., Inc. 585,027, Jan. 26; Serial No. 624,426, published Sept. 2, 1952.
Grease, Lubricating. Adam Cook's Sons, Inc. 585,087, Jan. 26; Serial No. 640,500, published Oct. 20, 1953.
Lubricants. American Chemical Paint Company. 585,125, Jan. 26; Serial No. 644,707, published Oct. 6, 1953.
Oil, Dripless, lubricating and penetrating oil, household oil, etc. The Pure Oil Company. 585,005, Jan. 26; Serial No. 604,225, published Oct. 20, 1953.
Oil, Penetrating. M. Bailey, Sr. 585,089, Jan. 26; Serial No. 640,900, published Oct. 20, 1953.
Oils, Lubricating. The Reflectone Corporation. 585,066, Jan. 26; Serial No. 636,804, published Oct. 20, 1953.
Viscous mineral oil for use in the industrial arts. The Pure Oil Company. 585,132, Jan. 26; Serial No. 644,788, published Oct. 6, 1953.

CLASS 16

Paints, Ready-mixed. Chilton Paint Company. 585,161, Jan. 26; Serial No. 564,370.

CLASS 18

Adrenocorticotropic hormone compositions. Veterinary. Armour and Company. 585,139, Jan. 26; Serial No. 645,528, published Oct. 13, 1953.
Anesthetic preparation. The Wander Company. 585,111, Jan. 26; Serial No. 643,388, published Oct. 27, 1953.
Antibiotic preparation. Chas. Pfizer & Co., Inc. 585,134, Jan. 26; Serial No. 645,182, published Oct. 6, 1953.
Anti-conguiant. Parke, Davis & Company. 585,143, Jan. 26; Serial No. 646,012, published Oct. 27, 1953.
Antidote for alcoholism or fatigue. P. F. W. Henning. 585,040, Jan. 26; Serial No. 630,494, published June 30, 1953.
Feed supplement. O. W. Meyer. 585,146, Jan. 26; Serial No. 646,228, published Oct. 27, 1953.
Feed supplement, Poultry. The Borden Company. 585,106, Jan. 26; Serial No. 642,936, published Oct. 27, 1953.
Intestinal parasiticide. American Home Products Corporation. 585,116, Jan. 26; Serial No. 644,209, published Oct. 13, 1953.
Medicated cream, pomade or ointment. The Knox Company. 585,145, Jan. 26; Serial No. 646,139, published Oct. 27, 1953.
Medicinal and pharmaceutical preparations. Causyth S. p. A. 585,039, Jan. 26; Serial No. 630,388, published Oct. 27, 1953.
Medicinal combination. Parke, Davis & Company. 585,058, Jan. 26; Serial No. 635,429, published Oct. 13, 1953.
Medicinal cream, Rubefacient. American Home Products Corporation. 585,120, Jan. 26; Serial No. 644,379, published Oct. 27, 1953.
Medicinal preparation. Abbott Laboratories. 585,144, Jan. 26; Serial No. 646,092, published Oct. 20, 1953.
Medicinal preparation. Eli Lilly and Company. 585,084, Jan. 26; Serial No. 640,068, published Oct. 13, 1953.
Medicinal preparation. The Upjohn Company. 585,136, Jan. 26; Serial No. 645,273, published Oct. 13, 1953.
Mineralized concentrate. Moorman Manufacturing Company. 585,168, Jan. 26; Serial No. 620,681.
Non-alcoholic, aqueous vitamin solution. Parke, Davis & Company. 585,142, Jan. 26; Serial No. 646,011, published Oct. 27, 1953.
Nutritional and therapeutic preparation. International Biochemical Corporation. 585,149, Jan. 26; Serial No. 646,473, published Oct. 27, 1953.
Pharmaceutical preparation. Istituto Farmacoterapico Italiano. 585,056, Jan. 26; Serial No. 635,364, published Oct. 27, 1953.
Pharmaceutical preparation. N. V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia. 585,108, Jan. 26; Serial No. 642,983, published Oct. 27, 1953.
Preparation containing antibiotic drugs. White Laboratories, Inc. 585,083, Jan. 26; Serial No. 640,060, published Oct. 27, 1953.
Preparation for the relief of stomach disorders. McKesson & Robbins, Incorporated. 585,140, Jan. 26; Serial No. 646,001, published Oct. 13, 1953.
Salve for relief of piles, liniment, preparation for relief of soreness of muscles and joints, etc. E. Richmond. 585,076, Jan. 26; Serial No. 639,340, published Sept. 22, 1953.
Solutions of dextrose or other preservatives for storing plasma, serum, or other blood products. Don Baxter, Inc. 585,023, Jan. 26; Serial No. 620,567, published Oct. 6, 1953.
Solutions of dextrose or other preservatives for storing plasma, serum, or other blood products. Baxter Laboratories, Inc. 585,024, Jan. 26; Serial No. 620,577, published Oct. 6, 1953.
Therapeutic mineral and vitamin supplement. Dr. L. D. Le Gear Medicine Company. 585,008, Jan. 26; Serial No. 607,554, published Oct. 27, 1953.
Tonic medicine. Hormo-Pharma Limited. 585,100, Jan. 26; Serial No. 642,294, published Oct. 27, 1953.
Tonic medicine. The Dr. J. H. McLean Medicine Company. 585,150, Jan. 26; Serial No. 646,564, published Oct. 27, 1953.
Vitaminic preparation. E. R. Squibb & Sons. 585,055, Jan. 26; Serial No. 635,198, published Mar. 31, 1953.

CLASS 19

Carriages, cabs, coaches, carts. Daimler-Motoren-Gesellschaft. 93,698, re-renewed Oct. 14, 1953. O. G. Jan. 26.
Flying-machines, aeroplanes, monoplanes, etc. Daimler-Motoren-Gesellschaft. 94,066, re-renewed Nov. 4, 1953. O. G. Jan. 26.
Vehicles. Packard Motor Car Company. 585,082, Jan. 26; Serial No. 639,770, published Nov. 3, 1953.

CLASS 21

Apparatus for training a child to prevent bedwetting, such apparatus comprising an electrical circuit, a sound-producing signal controlled by such circuit, etc. The Dry-O-Matic Company. 585,112, Jan. 26; Serial No. 643,584, published Oct. 27, 1953.
Electric circuit assemblies, Printed. Aerovox Corporation. 585,033, Jan. 26; Serial No. 628,604, published Oct. 13, 1953.
Electrical insulations. The William Brand and Co. Inc. 585,126, Jan. 26; Serial No. 644,725, published Oct. 13, 1953.
Electrical insulations. The William Brand and Co. Inc. 585,129–30, Jan. 26; Serial Nos. 644,728–9, published Oct. 13, 1953.
Insulating materials for electrical insulation. The William Brand and Co. Inc. 585,131, Jan. 26; Serial No. 644,730, published Oct. 13, 1953.

Insulation, namely plastic insulating tubing to cover insulating material intended for electrical insulation. The William Brand and Co. Inc. 585,127–8, Jan. 26; Serial Nos. 644,726–7, published Oct. 13, 1953.
Lighting apparatus, Fluorescent. Electro Manufacturing Corporation. 585,034, Jan. 26; Serial No. 629,156, published Oct. 27, 1953.
Spark plugs. V. G. Manufacturing Corp. 585,021, Jan. 26; Serial No. 620,330, published Oct. 13, 1953.
Splice for electrical conductors. Burndy Engineering Company, Inc. 585,011, Jan. 26; Serial No. 612,584, published Oct. 13, 1953.

CLASS 22

Game. Parker Brothers, Inc. 312,019, renewed Apr. 10, 1954. O. G. Jan. 26.
Puzzles, Jigsaw, and cardboard pushout toys. Jaymar Specialty Company. 585,152, Jan. 26; Serial No. 646,671, published Oct. 20, 1953.

CLASS 23

Automobile exhaust deflectors. Peters & Russell, Inc. 585,020, Jan. 26; Serial No. 619,257, published Sept. 22, 1953.
Carriages of all kinds, including motor-cars, etc. Daimler-Motoren-Gesellschaft. 41,127, re-renewed Sept. 15, 1953. O. G. Jan. 26.
Cranking motors, Hydraulically operated. Hydramotive, Inc. 585,115, Jan. 26; Serial No. 643,958, published Sept. 22, 1953.
Cylinders, Electrically heated extruder. John Royle & Sons. 585,104, Jan. 26; Serial No. 642,694, published Sept. 22, 1953.
Machine-knives, belt-knives, and leather-knives. Bailey & Blendinger Mfg. Co. 40,972, re-renewed Aug. 18, 1953. O. G. Jan. 26.
Machines for discharging streams of abrasive particles to clean castings, sheet metal, and the like. The American Foundry Equipment Company. 306,045, Sept. 5, 1933. Republished Jan. 26.
Machines for the handling, cleaning, grading and treating of seeds and grain. A. T. Ferrell & Co. 585,017, Jan. 26; Serial No. 618,735, published Sept. 22, 1953.
Pliers. Utica Drop Forge & Tool Corporation. 585,176, Jan. 26; Serial No. 636,039.
Pumps, Electric water. Decatur Pump Company. 331,464, Jan. 7, 1936. Republished Jan. 26.
Radial drills, special boring machines, lathes and sewing machines. Casati Ernesto & Figli-Caser. 585,054, Jan. 26; Serial No. 635,110, published Sept. 22, 1953.
Saws, hammers, chisels, etc. Daimler-Motoren-Gesellschaft. 93,082, re-renewed Aug. 19, 1953. O. G. Jan. 26.
Spur and helical gears, shafts, hubs, etc. Dittmer Gear and Manufacturing Corp. 585,037, Jan. 26; Serial No. 629,657, published Sept. 22, 1953.
Tools, Hand. S. E. Haycraft. 585,035, Jan. 26; Serial No. 629,571, published Sept. 22, 1953.
Typewriters, Reconditioned. L. C. Smith & Corona Typewriter, Inc. 585,018, Jan. 26; Serial No. 618,823, published Sept. 22, 1953.
Vacuum and pressure air pumps, spray guns, air and gas compressors and parts therefor. The Electric Sprayit Company. 585,038, Jan. 26; Serial No. 629,996, published Sept. 22, 1953.
Vibrating screens. Allis-Chalmers Manufacturing Company. 585,015, Jan. 26; Serial No. 616,582, published Sept. 22, 1953.

CLASS 26

Photographic apparatus and equipment. Pako Corporation. 388,732, July 8, 1941. Republished Jan. 26.

CLASS 27

Clocks, Travel. Stern Brothers. 585,077, Jan. 26; Serial No. 639,497, published Oct. 27, 1953.
Horological instruments. Henry Sandoz et Fils. 585,030, Jan. 26; Serial No. 627,789, published Oct. 20, 1953.
Watches, watch cases, and watch movements. The Gruen Watch Company. 585,166, Jan. 26; Serial No. 619,240.

CLASS 28

Amulet made of precious metal. R. E. Moore. 585,086, Jan. 26; Serial No. 640,350, published Oct. 27, 1953.
Amulet made of precious metal. R. E. Moore. 585,094, Jan. 26; Serial No. 641,685, published Oct. 27, 1953.
Gems, Unmounted. C. F. Chatham. 585,064, Jan. 26; Serial No. 636,584, published Oct. 20, 1953.
Jewelry, Costume. Stern Brothers. 585,078, Jan. 26; Serial No. 639,498, published Oct. 27, 1953.
Jewelry, Costume. Stern Brothers. 585,081, Jan. 26; Serial No. 639,515, published Oct. 27, 1953.

CLASS 30

Ceramic articles. Stern Brothers. 585,079, Jan. 26; Serial No. 639,499, published Oct. 27, 1953.
Vases, flowerpots and boxes, dishes, porcelain jars. Ardalt Inc. 585,175, Jan. 26; Serial No. 634,626.

CLASS 32

Furniture, Laboratory. John E. Sjostrom Company. 585,091, Jan. 26; Serial No. 641,096, published Oct. 27, 1953.
Picture-frames, mirrors, bedsteads, etc. Daimler-Motoren-Geselischaft. 91,951, re-renewed June 10, 1953. O. G. Jan. 26.
Pillows, Latex rubber. Star Bedding Co. 585,016, Jan. 26; Serial No. 616,926, published Dec. 2, 1952.
Shelves, Wall. C. J. Healy. 585,107, Jan. 26; Serial No. 642,969, published Oct. 20, 1953.
Trays, Serving, sets of serving trays, tray tables, collapsible tables, etc. B. Kjellström. 585,073, Jan. 26; Serial No. 637,998, published Oct. 27, 1953.

CLASS 33

Glasses and tumblers, Drinking, luncheon sets, bowls, etc. Stern Brothers. 585,080, Jan. 26; Serial No. 639,501, published Oct. 27, 1953.

CLASS 34

Heating, force circulating, and ventilating systems, Warm-air. P. H. Magirl Foundry & Furnace Works. 240,642, Apr. 3, 1928. Republished Jan. 26.
Indicating and recording thermometers and various types of thermometers. W. J. Halpern. 399,965, Feb. 9, 1943. Republished Jan. 26.
Soldering-lamps, hot-water foot-warmers, foot-warmers, etc. Daimler-Motoren-Gesellschaft. 91,952, re-renewed June 10, 1953. O. G. Jan. 26.

CLASS 35

Tire recapping and retreading materials. O. K. Ko-Op Rubber Welding System. 585,141, Jan. 26; Serial No. 646,007, published Oct. 6, 1953.

CLASS 37

Paper, Printing. Fletcher Paper Company. 585,026, Jan. 26; Serial No. 623,539, published Oct. 27, 1953.
Papers, Bible and printing. Ecusta Paper Corporation. 585,043, Jan. 26; Serial No. 632,359, published Oct. 27, 1953.

CLASS 38

Periodical street guides and maps. Hearne Brothers. 305,744, renewed Aug. 22, 1953. O. G. Jan. 26.

CLASS 39

Clothing, Dress. Austin Reed Limited. 585,001, Jan. 26; Serial No. 528,422, published Sept. 1, 1953.
Coats, suits, dresses, etc., Ladies' and misses'. J. Heim. 585,153, Jan. 26; Serial No. 647,004, published Oct. 20, 1953.
Dresses and coats, Ladies' and children's. Florida Fashions, Inc. 585,121, Jan. 26; Serial No. 644,499, published Nov. 3, 1953.
Dresses, Women's. V. Kellems. 585,069, Jan. 26; Serial No. 636,932, published Oct. 20, 1953.
Wearing apparel, Men's. Federated Department Stores, Inc. 585,114, Jan. 26; Serial No. 643,947, published Sept. 1, 1953.

CLASS 40

Bob pins. F. W. Woolworth Co. 585,068, Jan. 26; Serial No. 636,909, published Nov. 3, 1953.

CLASS 44

Dentures, metal castings of the stabilizing mesh-work for such dentures, etc. State Dental Technicians, Inc. 585,051, Jan. 26; Serial No. 634,497, published Oct. 20, 1953.
Endoscopic instruments. American Cystoscope Makers, Inc. 585,177–8, Jan. 26; Serial Nos. 637,679–80.
Endoscopic instruments. American Cystoscope Makers, Inc. 585,179–81, Jan. 26; Serial Nos. 637,682–4.
Endoscopic instruments. American Cystoscope Makers, Inc. 585,182–4, Jan. 26; Serial Nos. 637,688–90.
Hair dryers, Electric. Master Appliance Manufacturing Co. 585,036, Jan. 26; Serial No. 629,578, published Oct. 20, 1953.
Medical and surgical instruments. Société à Responsabilité Limitée: Porgès. 585,050, Jan. 26; Serial No. 634,220, published Oct. 13, 1953.
Restraining blankets or sheets. Jayne Bryant. 585,044, Jan. 26; Serial No. 633,485, published Sept. 15, 1953.
Syringes, Hypodermic. Goetze-Niemer Physician & Dental Supply Co., Inc. 585,157, Jan. 26; Serial No. 641,184.

CLASS 46

Biscuits and cookies. Gebr. Wernli, Biscuitsfabrik Trimbach-Olten. 585,174, Jan. 26; Serial No. 634,325.
Blend of coffee and chicory. Southland Coffee Company, Inc. 585,185, Jan. 26; Serial No. 651,135.
Cakes, cookies, and crackers. Weston Biscuit Company Inc. 585,173, Jan. 26; Serial No. 632,404.
Candies. Fascination Candy Co., Inc. 585,010, Jan. 26; Serial No. 610,432, published Dec. 9, 1952.
Candy. Rockwood & Co. 585,163, Jan. 26; Serial No. 592,281.
Canned patties or croquettes. Nelson Bros. Fisheries Limited. 585,165, Jan. 26; Serial No. 616,568.
Cheese. Camembert Industrie Heising, Hirschle & Immler. 309,358, Jan. 9, 1934. Republished Jan. 26.
Cheese crisps. E. J. Madden. 585,164, Jan. 26; Serial No. 597,621.

Clam chowder, Packaged frozen, lobster bisque, lobster Newberg, etc. Atlantic Lobster House, Inc. 585,045, Jan. 26; Serial No. 633,749, published Nov. 24, 1953.
Coatings and icings. Pettingill Products Limited. 585,060, Jan. 26; Serial No. 635,785, published Mar. 3, 1953.
Crab rolls, Frozen, frozen deviled crab, and frozen fresh breaded scallops. Mermaid Crab Meat Products Corporation. 585,159, Jan. 26; Serial No. 646,886.
Food products. Hershel California Fruit Products Co. 585,012, Jan. 26; Serial No. 614,405, published Jan. 8, 1952.
Food, Stock. Excelsior Milling Company. 364,513, Feb. 7, 1939. Republished Jan. 26.
Fruit, Fresh deciduous. Travers Bros. 309,745, renewed Jan. 30, 1954. O. G. Jan. 26.
Grocery items. Winston and Newell Company. 585,009, Jan. 26; Serial No. 610,243, published Apr. 21, 1953.
Honey. Sioux Honey Association, Cooperative. 585,154, Jan. 26; Serial No. 647,375, published Aug. 25, 1953.
Ice cream sandwiches. Creamery Sales Company, Inc. 585,172, Jan. 26; Serial No. 628,613.
Liverwurst. Karl Seller & Sons. 299,895, renewed Dec. 27, 1952. O. G. Jan. 26.
Syrup, Banana. N. Ortega. 585,162, Jan. 26; Serial No. 590,558.
Syrups, Watermelon. E. R. May. 585,059, Jan. 26; Serial No. 635,781, published Aug. 4, 1953.
Tea. Carter, Macy Company, Inc. 585,158, Jan. 26; Serial No. 645,229.

CLASS 49

Liqueur. Popper Morson Company. 585,096, Jan. 26; Serial No. 641,967, published Sept. 29, 1953.
Spirits. Berry Bros. & Co. 306,022, Sept. 5, 1933. Republished Jan. 26.
Whisky. Cork Distilleries Company Limited. 310,096, Feb. 13, 1934. Republished Jan. 26.
Whisky. Cork Distilleries Company Limited. 310,857, Mar. 13, 1934. Republished Jan. 26.
Whisky, Scotch. Berry Bros. & Co. 307,412, Oct. 24, 1933. Republished Jan. 26.
Whisky, Scotch. P. Dawson. 40,916, re-renewed Aug. 11, 1953. O. G. Jan. 26.

CLASS 50

Miniature greenhouses. Old Copper Mine Farms Inc. 585,171, Jan. 26; Serial No. 627,457.

CLASS 51

Hair Preparation, Liquid. The Nestle-Le Mur Company. 585,160, Jan. 26; Serial No. 646,888.
Lotion, Hand. Helena Rubinstein, Inc. 585,007, Jan 26; Serial No. 604,809, published Apr. 15, 1952.
Perfume, toilet water, face powder, etc. Houbigant, Inc. 309,266, renewed Jan. 9, 1954. O. G. Jan. 26.
Perfumes. J. Liebenguth. 585,029, Jan. 26; Serial No. 625,912, published June 9, 1953.
Polish for finger nails and toe nails. Pedi-Pak Products, Inc. 585,105, Jan. 26; Serial No. 642,768, published Aug. 25, 1953.
Toilet preparations. Société Secor. 307,725, renewed Oct. 31, 1953. O. G. Jan. 26.
Tooth paste. Worcester Salt Company. 306,059, Sept. 5, 1933. Republished Jan. 26.

CLASS 52

Alkali softening and detergent composition. Pacific Hygiene Products, Inc. 585,057, Jan. 26; Serial No. 635,428, published Oct. 20, 1953.
Cleaner, cleanser and detergent, Sudsing. The Procter & Gamble Company. 585,137, Jan. 26; Serial No. 645,337, published Oct. 20, 1953.
Cleaners, Paste, waterless cleaners, etc. The Davies-Young Soap Company. 585,053, Jan. 26; Serial No. 634,777, published Oct. 20, 1953.
Cleansing, sanitizing and deodorizing material for eggs. Cooperstown Chemical, Inc. 585,028, Jan. 26; Serial No. 625,462, published Oct. 27, 1953.
Detergent. Mid-Continent Chemical Co. Inc. 585,031, Jan. 26; Serial No. 627,955, published Oct. 27, 1953.
Detergent, Synthetic. The C. B. Dolge Company. 585,092, Jan. 26; Serial No. 641,128, published Oct. 27, 1953.
Detergents, Synthetic. Farbenfabriken Bayer. 585,065, Jan. 26; Serial No. 636,782, published Oct. 20, 1953.
Flushing oil useful for removing abrasives and other by-products, etc. Signal Oil Company. 585,014, Jan. 26; Serial No. 614,800, published Oct. 27, 1953.
Ink and dye eradicator. Guardian Chemical Corporation. 585,099, Jan. 26; Serial No. 642,222, published Oct. 27, 1953.
Shampoo. The Gillette Company. 585,052, Jan. 26; Serial No. 634,588, published Oct. 27, 1953.
Shampoo. The J. R. Watkins Company. 585,102, Jan. 26; Serial No. 642,584, published Sept. 15, 1953.
Skin cleanser in the nature of a detergent or soap. Chicago Sanitary Products Co. 585,101, Jan. 26; Serial No. 642,266, published Oct. 27, 1953.
Soap. Colgate-Palmolive-Peet Company. 585,032, Jan. 26; Serial No. 628,396, published June 9, 1953.
Soap. Fabergé, Inc. 585,085, Jan. 26; Serial No. 640,150, published Oct. 20, 1953.
Soap. S. H. Kress and Company. 585,019, Jan. 26; Serial No. 619,091, published Oct. 20, 1953.
Soap, Dog shampoo. Anderson-Peck Enterprises. 585,048, Jan. 26; Serial No. 633,906, published Oct. 20, 1953.
Soap, Toilet. Karlsruher Parfumerie- und Toiletteseifenfabrik F. Wolff & Sohn, Gesellschaft mit beschrankter Haftung. 585,041, Jan. 26; Serial No. 630,598, published Oct. 20, 1953.
Soap, Toilet, face soap, hand soap, etc. Helena Rubinstein, Inc. 585,013, Jan. 26; Serial No. 614,723, published Nov. 10, 1953.
Sodium hypochlorite solution for use in washing clothes, etc. Violetta Chemical Co. 585,025, Jan. 26; Serial No. 622,046, published July 15, 1952.
Sweeping compound. International Sisal Company. 585,042, Jan. 26; Serial No. 631,621, published Oct. 27, 1953.

CLASS 107

Home economist services. A. N. Dries. 585,155, Jan. 26; Serial No. 636,351, published Oct. 20, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 26TH DAY OF JANUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

McCanna, Louis A.: *See*—
Pauley, Robert D., and McCanna.
Oswald, Frederick G.: *See*—
Oswald, Joseph H. and F. G.
Oswald, Joseph H. and F. G., South Euclid, Ohio. Panel closure. Re. 23,775, Jan. 26.
Pauley, Robert D., Tacoma, and L. A. McCanna, Spokane, assignors to Weyerhaeuser Timber Company, Longview, Wash. Barking logs. Re. 23,776, Jan. 26.
Phillips Petroleum Company, assignee: *See*—
Robinson, Sam P.
Robinson, Sam P., La Porte, Tex., assignor to Phillips Petroleum Company. Pebble heating chamber for pebble heaters. Re. 23,777, Jan. 26.
Weyerhaeuser Timber Company, assignee: *See*—
Pauley, Robert D., and McCanna.

LIST OF PLANT PATENTEES

Anderson, Frederic W., Merced, Calif. Peach tree. 1,247, Jan. 26.

LIST OF DESIGN PATENTEES

Bennett, Gail, Evanston, Ill. Finger ring. 171,319, Jan. 26.
Bernard Edward Co., assignee: *See*—
Yellin, Bernard.
Berry, Forrest, Reading, Pa. Bug and air deflector for automobiles. 171,320, Jan. 26.
Boucher, Marcel, Eltingeville, N. Y. Combined necklace and clip. 171,321, Jan. 26.
Coffey-Hoyt Products, Inc., assignee: *See*—
Haines, Chester H., and Hoyt.
Conway, John E., Toronto, Ontario, Canada. Puppet. 171,322, Jan. 26.
Corley, Harold W., Albuquerque, N. Mex. Edible container. 171,323, Jan. 26.
Coro, Inc., assignee: *See*—
Katz, Adolph.
Crowle, Robert H.: *See*—
Jones, Charles E., and Crowle.
Dav-O-Niter Corp., The, assignee: *See*—
Rothstein, Max.
De Puy, Charles T., Brighton, assignor to Trimble, Inc., Rochester, N. Y. Serving tray. 171,324, Jan. 26.
Fornoff, Henry G., Los Angeles, Calif. Fry pan cover. 171,326, Jan. 26.
Gould, Roy D., Detroit, Mich. Kite. 171,327, Jan. 26.
Greenlee, Charles H., New York, N. Y. Rack for spice containers. 171,328, Jan. 26.
Greenlee, Charles H., New York, N. Y. Spice cabinet. 171,329, Jan. 26.
Greenlee, Charles H., New York, N. Y. Combined cabinet and towel rack. 171,330, Jan. 26.
Guild Moccasin Corporation, assignee: *See*—
Podus, Louis.
Haines, Chester H., Gardena, and D. G. Hoyt, Jr., Los Angeles, assignors to Coffey-Hoyt Products, Inc., Gardena, Calif. Overshoe. 171,331, Jan. 26.
Hoyt, Dolph G., Jr.: *See*—
Haines, Chester H., and Hoyt.
Jones, Charles E., Chicago, and R. H. Crowle, Berwyn, Ill. Calendar stand. 171,332, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,333, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,334, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,335, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,336, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,337, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,338, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,339, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,340, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,341, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,342, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,343, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,344, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,345, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,346, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,347, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,348, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,349, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,350, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,351, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,352, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 171,353, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 171,354, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 171,355, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a bracelet or the like. 171,356, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 171,357, Jan. 26.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 171,358, Jan. 26.
Keyston, Donald W., Pasadena, assignor to Lichtenberger-Ferguson Co., Los Angeles, Calif. Pouch for attachment to a belt or button. 171,359, Jan. 26.
Lichtenberger-Ferguson Co., assignee: *See*—
Keyston, Donald W.
Lunn, James S., Hempstead, N. Y. Pendant or similar article. 171,360, Jan. 26.
Miran, Julius, Teaneck, N. J. Stocking. 171,361, Jan. 26.
Munsie, George R., assignor to Pitney-Bowes, Inc., Stamford, Conn. Combined stacking device and stand. 171,362, Jan. 26.
Nelson, Arthur J., assignor to Pulp Reproduction Co., Milwaukee, Wis. Artificial jack-o'-lantern. 171,363, Jan. 26.
Parker, George E., Pasadena, Calif. Barber chair or similar article. 171,364, Jan. 26.
Pitney-Bowes, Inc., assignee: *See*—
Munsie, George R.
Podus, Louis, assignor to Guild Moccasin Corporation, Los Angeles, Calif. Display container or the like. 171,365, Jan. 26.
Pulp Reproduction Co., assignee: *See*—
Nelson, Arthur J.
Reynolds, Elmer N., Rivera, Calif. Sprinkler head. 171,366, Jan. 26.
Rollins, Hazelle H., Kansas City, Mo. Toy stage for puppets. 171,367, Jan. 26.
Rothstein, Max, Newton, assignor to The Dav-O-Niter Corp., Melrose, Mass. Sofa bed. 171,368, Jan. 26.
Trimble, Inc., assignee: *See*—
De Puy, Charles T.
Verrand, Mamie, New York, N. Y. Dress. 171,369, Jan. 26.
Wier, Harvey J., Sr., Opelousas, La. Lazy Susan chafing dish vehicle. 171,370, Jan. 26.
Yellin, Bernard, assignor to Bernard Edward Co., Chicago, Ill. Fence. 171,325, Jan. 26.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 26TH DAY OF JANUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aannerud, Sigurd A., and E. Mostad, Lokken Verk, Norway, assignors, by mesne assignments, to Pyror Limited, Pembroke, Bermuda. Electrolytic production of iron from iron sulfate solutions. 2,667,455, Jan. 26.

Ace Metal Products, Inc., assignee: *See*—
Pratt, Edward H.

Ackerman, Frank L., Pendleton, Oreg. Orthopedic table. 2,667,160, Jan. 26.

Ackerman, Paul C., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Hydrodynamic transmission. 2,667,085, Jan. 26.

Ackermans, John W. J., Detroit, Mich. Ventilation system for vehicle bodies. 2,667,113, Jan. 26.

Adams, Dennis A. W., and R. H. Wilson, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Textile treating materials. 2,667,458, Jan. 26.

Adelson, David E., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Halogenated cyclic ketones and their production. 2,667,512, Jan. 26.

Aeckersberg, Gustav, Dusseldorf, and K. A. Nilgen, Dusseldorf-Oberkassel, assignors to Maschinenfabrik Hasenclever A.-G., Duesseldorf, Nordrhein-Westphalia, Germany. Upsetting of electrically heated rods. 2,667,558, Jan. 26.

Affronte, Joseph M., Great Neck, N. Y. Arch support. 2,666,997, Jan. 26.

Aguilar, John G., and W. A. Cox, San Francisco, Calif. Method and apparatus for stemming and for pitting cherries and the like. 2,667,196, Jan. 26.

Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Satinoff, David.

Alcock, John F., North Lancing, assignor to Power Jets (Research and Development) Limited, London, England. Air turbine power plant having rotary regenerator to transfer heat from an afterburner to the motive fluid. 2,667,034, Jan. 26.

Allen, Arthur N., Jr., Wethersfield, assignor to United Aircraft Corporation, East Hartford, Conn. Propeller construction having integral hub reservoir. 2,667,229, Jan. 26.

Allen, Frank B., Towaco, and N. H. Siebens, East Orange, assignors to C-O-Two Fire Equipment Company, Newark, N. J. Powder fire extinguisher. 2,667,225, Jan. 26.

Allied Chemical & Dye Corporation, assignee: *See*—
Donegan, Joseph W.
Olmer, Francois J. G., and Nesty.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Becker, George D.
Schick, Frederick A.

Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Dreyfus, Ludwin, Thelemarck, Beckius, and Lindström.

Alltools Limited, assignee: *See*—
Haller, Albert H., and Saunders.

Altenburger, Ernst: *See*—
Westinger, Karl, Altenburger, and Hirt.

Amatel, Harold, Glendale, N. Y., assignor to Westingbouse Electric Corporation, East Pittsburgh, Pa. Package of fragile articles. 2,667,267, Jan. 26.

Ameline, Jean, Sceaux, France. Toolholder device for prosthesis apparatus for the upper limbs, to be secured on the stump of an amputated arm. 2,666,928, Jan. 26.

American Aerovap, Inc., assignee: *See*—
Buehler, Emil.

American Can Company, assignee: *See*—
Maher, William W.

American Crop-Drying Equipment Company, assignee: *See*—
Andersen, Arthur A., and Mathews.

American Cyanamid Company, assignee: *See*—
Nagy, Daniel E.

American Machine Development Corporation, assignee: *See*—
Eissmann, Oswald E.

American Machine & Foundry Company, assignee: *See*—
Broekhuysen, William C., Pohl, and Roehm.
Broekhuysen, William C., and Warren.

American Viscose Corporation, assignee: *See*—
Tasker, Clinton W.

American Wheelabrator & Equipment Corporation, assignee: *See*—
Berger, Franz J.

Amour, James, Frackville, Pa. No-spin differential. 2,667,086, Jan. 26.

Andersag, Hans, Wuppertal-Elberfeld, H. Weese, Wuppertal-Vohwinkel, and F. Bossert, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y. Tris quinolinium compounds. 2,667,488, Jan. 26.

Andersen, Arthur A., Crystal Lake, and B. C. Mathews, Cary, assignors to American Crop-Drying Equipment Company, Crystal Lake, Ill. Moisture tester. 2,667,064, Jan. 26.

Anderson, Florence B., Winnetka, Ill., assignor to Motor Products Corporation, Detroit, Mich. Refrigerating system, including defroster drainage receptacle and support therefor. 2,667,042, Jan. 26.

Anderson, Orrin E., Philadelphia, Pa. Receptacle for snelled fishhooks. 2,667,010, Jan. 26.

Anderson, W. E., Inc., assignee: *See*—
Webster, Raymond C.

Andreasson, Rudolf W., Detroit, Mich. Toolholder. 2,667,357, Jan. 26.

Andrews, Mary M., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Making partitioned containers. 2,666,953, Jan. 26.

Anskjaer, Emil R., Copenhagen, S. P. L. Nielsen, Frederiksberg, and S. E. B. Svendsen, Copenhagen, Denmark. Friction type wedge-lock means for slidable side jaw wrenches. 2,667,096, Jan. 26.

Apex Machine & Tool Company, The, assignee: *See*—
Fischer, Harry G., and Wondling.

Armstrong, Sir W. G., Whitworth Aircraft Limited, assignee: *See*—
Watson, Henry R., Morris, and Staite.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Kallmann, Hartmut.
Langberg, Edwin.
Siderman, Joseph A.

Arnberg, Gunnar: *See*—
Österman, Karl, and Arnberg.

Arnold, Perry C., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Welding. 2,667,559, Jan. 26.

Arundale, Erving: *See*—
Guyer, Walter R. F., Thorn, and Arundale.

Ashcroft, Donald G., Saltcoats, and T. Pitcairn, West Kilbride, Scotland, assignors to Imperial Chemical Industries Limited. Apparatus adapted for receiving and eventually discharging cylindrical wrappers. 2,667,101, Jan 26.

Ashkouti, Joseph A.: *See*—
Ellis, Riley E., and Ashkouti.

Ashton, Benjamin N., and E. V. Barkow, Kingston, and J. P. Frain, Mount Tremper, assignors to Electrol Incorporated, Kingston, N. Y. Slide selector valve. 2,667,181, Jan. 26.

Ashton, Philip E., assignor to The Cuno Engineering Corporation, Meriden, Conn. Cigar lighter. 2,667,562, Jan. 26.

Ashton, William H., Philadelphia, Pa., assignor to Johnson & Johnson. Dental floss. 2,667,443, Jan. 26.

Ashwood, Peter F., Old Coulsdon, assignor to Power Jets (Research and Development) Limited, London, England. Combustion apparatus for operation in fast-moving air streams. 2,667,033, Jan. 26.

Asp, Ivar A., Hagersten, and O. G. Berg, assignors to Husqvarna Vapenfabriks Aktiebolag, Huskvarna, Sweden. Operating device for change-speed gearings of bicycles. 2,667,081, Jan. 26.

Associated Development and Research Corporation, assignee: *See*—
Wallach, Robert S., and Torkelson.

Atlas Powder Company, assignee: *See*—
Griffin, William C.

Atwood, John B., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency control system. 2,667,579, Jan. 26.

Auerbacher, Werner F., Bronx, and S. Napolin, Williston Park, assignors to Pilot Radio Corporation, Long Island City, N. Y. Tuning device for signal receivers. 2,667,581, Jan. 26.

Austerweil, Geza V.: *See*—
Delmoussée, Georges, Austerweil, Lemoussu and Poupinel.

Automatic Electric Laboratories, Inc., assignee: *See*—
Grandstaff, Otho D.

Automatic Telephone & Electric Company Limited, assignee: *See*—
Beale, Charles E., and Hopley.
Smith, Sidney R., and Rhodes.

Azoplate Corporation, assignee: *See*—
Neugebauer, Wilhelm, and Barthenheler.

Backus, John G., Los Angeles, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Mass separator. 2,667,582, Jan. 26.

Bacon, John H., Wellesley, Mass. Bird cage whistle. 2,667,012, Jan. 26.

Baecher, Bernard J., Sea Cliff, N. Y. Gyroscope damping device. 2,667,077, Jan. 26.

Baecher, Bernard J., Sea Cliff, N. Y. Gyroscope damping device. 2,667,078, Jan. 26.

Bailey, Robert S., assignor to International Standard Electric Corporation, New York, N. Y. Velocity modulated electron discharge device. 2,667,597, Jan. 26.

Baird, Douglas O., assignee: *See*—
Castner, George P.

Baird, Edgar W., Jr.: *See*—
Ullberg, Frederick G. W., Jr. and Baird.

Ball, Thomas M., Detroit, assignor to Chrysler Corporation, Highland, Mich. Choke device. 2,667,154, Jan. 26.

Banister, Lee, executor: *See*—
Spangard, Laurence C.

Banker, Oscar H., assignor to New Products Corporation, Chicago, Ill. Clutch shifting means for transmissions. 2,667,251, Jan. 26.

Barkow, Eugene V.: *See*—
Ashton, Benjamin N., Barkow, and Frain.

Barnes Drill Co., assignee: *See*—
Seborg, Earnest Y.

Barnett, Allan E.: *See*—
Beach, Leland K., and Barnett.

Barnett, Wilford J., Venice, and C. G. Carlson, Inglewood, Calif., assignors to Hughes Tool Company, Houston, Tex. Swivel joint for coaxial transmission lines. 2,667,578, Jan. 26.

Barr Rubber Products Company, The, assignee: *See*—
Lawson, George S., and J. C.

Barry, Anthony J.: *See*—
Thomas, Edward M., and Barry.

Barsky, George, New York, N. Y., and G. Zinzalian, Boonton, N. J., assignors to E. F. Drew & Co., Inc., New York, N. Y. Hard butter composition. 2,667,418, Jan. 26.

Barthenheler, Jakob: *See*—
Neugebauer, Wilhelm, and Barthenheler.

Bassick Company, The, assignee: *See*—
Kramcsak, Michael, Jr.

Bassindale, Isaac B., Grasscroft, near Oldham, assignor to Platt Brothers and Company Limited, Oldham, England. Loom for weaving tufted pile fabrics. 2,667,188, Jan. 26.

Bauer, Paul C.: *See*—
Kottmann, Arthur A., and Bauer.

Baum, John W., Eugene, Oreg. Trolling harness. 2,667,008, Jan. 26.

Bauman, William C., and E. L. McMaster, assignors to The Dow Chemical Company, Midland, Mich. Making chloromethyl methyl ether. 2,667,516, Jan. 26.

Bayley, Charles A. D., Washington, D. C. Subaqueous supporting structure for working platforms. 2,667,038, Jan. 26.

Baze, Grady P., Idalou, Tex. Plastic tractor cab. 2,667,379, Jan. 26.

Beach, Leland K., Mountainside, and A. E. Barnett, Westfield, N. J., assignors to Standard Oil Development Company. Preparation of alkyl mercaptans. 2,667,515, Jan. 26.

Beale, Charles E., and H. E. Hopley, assignors to Automatic Telephone & Electric Company Limited, Liverpool, England. Automatic switch for use in telephone or like systems. 2,667,541, Jan. 26.

Bear, Harry A., Terre Haute, Ind. Holder for fishing implements. 2,667,009, Jan. 26.

Beatty, John W., Lansdowne, and H. N. Schneider, Springfield, Pa., assignors to General Electric Company. Blast diffusing means for electric circuit breakers of the fluid-blast type. 2,667,555, Jan. 26.

Beaver Pipe Tools, Inc., assignee: *See*—
Shafer, Clarence W.

Beavers, James L., Yakima, Wash. Fluid diverter. 2,667,185, Jan. 26.

Becker, George D., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Gyratory crusher. 2,667,309, Jan. 26.

Becker, Philip D., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Knockdown furniture leg attaching device. 2,667,393, Jan. 26.

Becker, Sam B., assignor to Standard Oil Company, Chicago, Ill. Alkenylation of thiophenes. 2,667,495, Jan. 26.

Beckius, Ivar: *See*—
Dreyfus, Ludwig, Thelemarck, Beckius, and Lindström.

Bedford, William A., Jr., North Scituate, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastening device. 2,666,968, Jan. 26.

Bedford, William A., Jr., North Scituate, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastening device. 2,667,200, Jan. 26.

Behnisch, Robert: *See*—
Schmidt, Hans, Behnisch, and Mietzsch.

Bell Aircraft Corporation, assignee: *See*—
Winter, Robert C., and Wheeler.

Bell, Sidney R., Stamford, Conn. Sewing machine needle bar and take-up operating means. 2,667,135, Jan. 26.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Gardner, Leland A., and Hysko.
Mahoney, Joseph A., Rea, and Sutliff.
Pfann, William G.
Robinson, Albert L.

Bell, William R., Skokie, Ill., and E. C. McRae, Dearborn, Mich. Windshield cleaner declutching mechanism. 2,667,249, Jan. 26.

Bels, Basil A., Great Neck, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Coil forms with ends of insulation having electrical terminals thereon. 2,667,624, Jan. 26.

Bendix Aviation Corporation, assignee: *See*—
Blanchard, Allen W.
Blancher, Donald W.

Bennett, George R., Waltham, Mass. Ball cock. 2,667,179, Jan. 26.

Bennett, Harold L., South Bend, Ind., assignor, by mesne assignments, to Clayton Manufacturing Company, El Monte, Calif. Cooling means for dynamometers. 2,667,238, Jan. 26.

Bennetts, Arthur E., assignor to Messrs. Staines Kitchen Equipment and Company Limited, London, England. Apparatus for washing and cleaning crockery, cooking utensils, and the like. 2,666,937, Jan. 26.

Bensinger, Wolf D., Muhlacker (Wurttemberg), assignor, Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Regulation of the quantity of fuel in combustion engines. 2,667,153, Jan. 26.

Bent, Arthur J., Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company. Control valve device. 2,667,180, Jan. 26.

Bentley Engineering Company Limited, The, assignee: *See*—
Manger, Charles F.

Berg, Elaine, Chicago, Ill. Worker's head covering. 2,666,923, Jan. 26.

Berg, Olof G.: *See*—
Asp, Ivar A., and Berg.

Berg, Ralph R., Menlo Park, assignor to Mariblast Corporation, Jersey City, N. J. Sand washing method and apparatus. 2,667,015, Jan. 26.

Berger, Franz J., Neftenbach, Switzerland, assignor to American Wheelabrator & Equipment Corporation, Mishawaka, Ind. Roller conveyer. 2,667,261, Jan. 26.

Bergh, Charles J., Vandalia, assignor to The Dayton Pump & Manufacturing Company, Dayton, Ohio. Submersible pump. 2,667,128, Jan. 26.

Berthel, Gust A., Chicago, assignor to Jefferson Electric Company, Bellwood, Ill. Thermal time lag fuse. 2,667,551, Jan. 26.

Besler, William J., Piedmont, Calif. Mechanical fog generator. 2,667,459, Jan. 26.

Best Foods, Inc., The, assignee: *See*—
Gooding, Chester M., Yahlteich, and Neal.

Bettendorf Company, The, assignee: *See*—
Kottmann, Arthur A., and Bauer.

Bierly, Lester A., Chautauqua, N. Y., assignor to Presque Isle Laboratories and Manufacturing, Inc., Erie, Pa. Self-extinguishing asphalt composition. 2,667,425, Jan. 26.

Bigler, Joseph G.: *See*—
Bigler, William P. and J. G.

Bigler, William P., Gates Mills, and J. G. Bigler, Willoughby, Ohio. Flexible flight for chain conveyers. 2,667,263, Jan. 26.

Bitumex Limited, assignee: *See*—
Shaw, Harry.

Blaauw, Andrew, and G. W. Findley, assignors to Dearborn Motors Corporation, Birmingham, Mich. Tractor jack. 2,667,329, Jan. 26.

Black-Clawson Company, The, assignee: *See*—
Hyman, Howard D., and Root.

Blanchard, Allen W., Allendale, assignor to Bendix Aviation Corporation, Teterboro, N. J. Engine control device with an induction pressure reset mechanism responsive to operation of an antidetonant fluid injection system. 2,667,148, Jan. 26.

Blancher, Donald W., North Hollywood, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Telemetering system for wells. 2,667,626, Jan. 26.

Blum, Alvin S., and E. V. Weiner, Long Beach, Calif. Proportional sampler. 2,667,075, Jan. 26.

Bogart, W. H., assignee: *See*—
Shink, George J.

Bory, Jacques M.: *See*—
Douris, Roger G., and Bory.

Bossert, Friedrich: *See*—
Andersag, Hans, Weese, and Bossert.

Boston, John R.: *See*—
Watson, Romaine E., Boston, and Lehmeier.

Bovajian, Aram, Pittsfield, Mass., assignor to General Electric Company. Polyphase transformer system with grounded neutral. 2,667,617, Jan. 26.

Brady, James M., Wantagh, N. Y., assignor to Servomechanisms, Inc. Snap switch. 2,667,546, Jan. 26.

Briggs, George L.: *See*—
Ghersin, Ralph N., and Briggs.

British Insulated Callender's Cables Limited, assignee: *See*—
Robson, Briton S.

Boulet, Georges, Toulouse, France. Revolving combustion chamber with lubrication means. 2,667,032, Jan. 26.

Bowen, Earl M., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Boring machine. 2,667,091, Jan. 26.

Bradley, Theodore F.: *See*—
Jakob, Robert H., Tess, and Bradley.

Bradshaw, John A.: *See*—
Winslow, Albert E., and Bradshaw.

Brady, Elliot W.: *See*—
Sockman, Loy W., and Brady.

Branan, Wiley M., and G. E. Desetti, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of cellulose ether. 2,667,480, Jan. 26.

Brandt, Cornelius K., Reedley, Calif. Extensible iron stand. 2,666,999, Jan. 26.

Brearley Company, The, assignee: *See*—
Provenzano, Mike A.

Brimhall, Rulon W., Pleasant Grove, Utah. Nail feeder. 2,666,917, Jan. 26.

British Insulated Callender's Cables Limited, assignee: *See*—
Packer, Johnson L., and Grieve.

Brock, Harold L., Detroit, and J. R. Stevenson, Ann Arbor, assignors to Ford Motor Company, Dearborn, Mich. Transmission control. 2,667,082, Jan. 26.

Broekhuysen, William C., Garden City, E. E. Pohl, Elmhurst, N. Y., and F. J. Roehm, Newark, N. J., assignors to American Machine & Foundry Company. Registration device. 2,667,020, Jan. 26.

Broekhuysen, William C., Garden City, and J. W. Warren, New York, N. Y., assignors to American Machine & Foundry Company. Cigarette rod condition measuring and indicating. 2,667,172, Jan. 26.

Bronzo, Frank A., assignee: *See*—
Whalen, John N.

Brown, Lyman R., Douglaston, and K. J. Whittet, Centerport, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated. Countercurrent vaporizing flare burner. 2,667,156, Jan. 26.

Brown, Robert G., Downey, Calif. Electrostatic generator. 2,667,615, Jan. 26.

Brown, Robert W., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Shortstopping of butadiene-styrene emulsion polymerization. 2,667,472, Jan. 26.

Brown-Saltman, assignee: *See*—
Keal, John J.

Brown, William L., Lansdowne, Pa. Expansible chamber motor of fluid volume meters. 2,667,147, Jan. 26.

Buck, Willard E., Los Alamos, N. Mex., assignor to the United States of America as represented by the United States Atomic Energy Commission. Light valve. 2,667,104, Jan. 26.

Buehler, Emil, North Haledon, N. J., assignor to American Aerovap, Inc. Heating devices. 2,667,567, Jan. 26.

Burgess, Louis, Jersey City, N. J. Coffee maker. 2,667,114, Jan. 26.

Burns, Leslie L., Jr., and W. V. B. Roberts, Princeton, N. J., assignors to Radio Corporation of America. Torsional filter. 2,667,621, Jan. 26.

Burnside, Don G., Princeton, N. J., assignor to Radio Corporation of America. Metallizing ceramics. 2,667,431, Jan. 26.

Burrows, Lawton A., Mendenhall, Pa., and M. A. Cook, Salt Lake City, Utah, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., Oil well torpedo. 2,667,122, Jan. 26.

Burton, Robert C.: *See*—
Guenther, Edgar G., and Burton.

Busfield, Gordon, Annandale, N. Y., assignor to Research Corporation, New York, N. Y. Gaslock for spray nozzles. 2,667,341, Jan. 26.

Byer, Walter C.: *See*—
Tommarchi, Paul, and Byer.

C-O-Two Fire Equipment Company, assignee: *See*—
Allen, Frank B., and Siebens.

Cabul Tool Company Limited, assignee: *See*—
Pocknee, James K.

Cady, Stanley S., St. Paul, and W. E. Sabatka, Minneapolis, Minn. Apparatus for filtering and agitating plating solutions. 2,667,270, Jan. 26.

Cain, Cornelius K., Flourtown, Pa., assignor to Research Corporation, New York, N. Y. 2,4-diamino pteridine and derivatives. 2,667,486, Jan. 26.

California Spray-Chemical Corporation, assignee: *See*—
Gardner, Leo R.

Campbell, John P.: *See*—
McKinney, Marion O., Jr., and Campbell.

Campbell, Neal J., St. Louis, Mo. Reinforced building panel. 2,667,060, Jan. 26.

Campbell, Walter, Raymondville, N. Y. Pipe collar aligning and clamping means. 2,667,139, Jan. 26.

Canfield, Howard M.: *See*—
Goepfert, George J., and Canfield.

Caparone, Michael J., Arcadia, Calif., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa. Automatic pilot control and ignition apparatus. 2,667,217, Jan. 26.

Carborundum Company, The, assignee: *See*—
Goepfert, George J., and Canfield.
Swentzel, John P.

Cardinal, Alphonse G., Floydada, Tex. Irrigation tube lifter. 2,667,375, Jan. 26.

Carlson, Clarence G.: *See*—
Barnett, Wilford J., and Carlson.

Carney, Fletcher B., Mountain Brook, Ala. Lift frame for agricultural implements. 2,667,112, Jan. 26.

Castner, George P., Webster City, Iowa, assignor of forty-nine per cent to Douglas O. Baird, Skokie, Ill., and fifty-one per cent to Speed-Flex, Inc. Clothes-washing and squeeze-dry machine. 2,667,054, Jan. 26.

Cathodeon Limited, assignee: *See*—
Goff, George B. F.

Celanese Corporation of America, assignee: *See*—
Jones, Wilford D., and McFarlane.

Champion Dish Washing Machine Company, assignee: *See*—
Davis, Patrick H.

Chapman, Everett, Las Vegas, Nev. Finned element for thermal or heat transfer purposes. 2,667,337, Jan. 26.

Chapman, Harry E., Galesburg, Ill. Thermal and fanning strip for electrical conductors. 2,667,529, Jan. 26.

Chase, Hubert H.: *See*—
Updegraff, David M., and Chase.

Chaveneaud, Roger M., Paris, France. Sign transfer device. 2,667,628, Jan. 26.

Chemstrand Corporation, The, assignee: *See*—
Downing, Cole.
Dye, William T., Jr.
Larson, Robert J.

Chicago Bridge & Iron Company, assignee: *See*—
Arnold, Perry C.

Chicago Nipple Manufacturing Company, assignee: *See*—
Marsden, George B.

Chow, Ho, New York, N. Y. Fastener device. 2,666,971, Jan. 26.

Christensen, Boyd C.: *See*—
Woodward, Leslie R., and Christensen.

Christensen, Leo M., Lincoln, Nebr., assignor of fifteen per cent to R. J. Norton, Washington, D. C. Processing safflower seed. 2,667,499, Jan. 26.

Chrysler Corporation, assignee: *See*—
Ackerman, Paul C.
Ball, Thomas M.
Duff, Robert H., and Terry.
Flemming, Albert E.
Terry, Rex A., and Kuehn.
Wyeth, Nathaniel.

Ciba Limited, assignee: *See*—
Liechti, Hans W.

Cines, Martin R., Knoxville, Tenn., assignor to Phillips Petroleum Company. Separation of aldehydes from aliphatic hydrocarbons by azeotropic distillation with perfluorocompounds. 2,667,450, Jan. 26.

Cislak, Francis E.: *See*—
Sutherland, Leslie H., and Cislak.

Cizek, Albert W., Jr.: *See*—
Ramos, Thomas, Cizek, and Weiss.

Claflin, Harlan W., assignor of one-half to T. R. Claflin, Bakersfield, Calif. Camper's storage cabinet. 2,667,398, Jan. 26.

Claflin, T. R., assignee: *See*—
Claflin, Harlan W.

Clark, William C., Owensboro, Ky., assignor to General Electric Company. Heating circuit control for electric appliances. 2,667,560, Jan. 26.

Clarke, James S., East Orange, N. J., assignor to Standard Oil Development Company. Bellows type expansion joint and equalizing support therefor. 2,667,370, Jan. 26.

Clarvoe, George W., Somerville, and L. M. Pomeroy, deceased (by E. A. Pomeroy, administratrix), Newark, N. J., assignors to Johns-Manville Corporation, New York, N. Y. Self-sealing shingle. 2,667,131, Jan. 26.

Clausen, Sigurd, Brooklyn, and J. A. Neumair, Hollis, N. Y., assignors to International Cigar Machinery Co. Filler feed control mechanism for cigar machines. 2,667,171, Jan. 26.

Clayton Manufacturing Company, assignee: *See*—
Bennett, Harold L.

Clerc, Leonard F., Detroit, Mich. Adjustable bedstead. 2,666,931, Jan. 26.

Cline, Warren K., Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation. Preparation of cyclic carbonates. 2,667,497, Jan. 26.

Clore, Withrow T., assignor to Travel-Ads Inc., Lincoln, Nebr. Display device for vehicle tops. 2,667,002, Jan. 26.

Cloud, Raymond T., assignor to North American Geophysical Co., Houston, Tex. Elevation meter. 2,666,992, Jan. 26.

Coach & Car Equipment Corporation, assignee: *See*—
Gundersen, Ralph W.

Coar, Richard J., Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Control method and apparatus. 2,667,150, Jan. 26.

Codianne, Nicholas, San Carlos, assignor to Roberts Manufacturing Co., Los Angeles, Calif. Carpet cutting device. 2,666,986, Jan. 26.

Coe Manufacturing Company, The, assignee: *See*—
Parker, Clarence E.
St. Clair, Charles W.

Colt, Burton C., Jr., Pittsburgh, assignor to Tri-State Engineering Company, Washington, Pa. Combined crate and pallet structure. 2,667,319, Jan. 26.

Coleman, Carl S., Claremore, Okla. Brushless eraser cleaning machine. 2,666,942, Jan. 26.

Collins, Samuel C., Watertown, Mass., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Method and apparatus for the separation of gases. 2,667,043, Jan. 23.

Collins, Samuel C., Watertown, Mass., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Apparatus for and method of separating gases. 2,667,044, Jan. 26.

Collins, Solomon M., Detroit, Mich. Folding closure. 2,667,218, Jan. 26.

Colombu, Eugène: *See*—
Karlen, Hermann, and Colombu.

Colpo, Jesse, Orchard Park, N. Y. Tractor-semitrailer coupling device. 2,667,364, Jan. 26.

Columbia Broadcasting System, Inc., assignee: *See*—
Sokolov, David A.

Columbus McKinnon Chain Corporation, assignee: *See*—
Robins, Erford E., and Parker.

Combustion Control Corporation, assignee: *See*—
MacDougall, Donald J.

Commercial Solvents Corporation, assignee: *See*—
Hickey, Richard J.
Nager, Urs F.
Schwartz, Anthony M.

Conley, Joseph M.: *See*—
Pressey, Donald E., and Conley.

Conner, Tom E., Elk Grove, Calif. Suction pickup head unit for seed harvesters. 2,667,025, Jan. 26.

Consolidated Machine Tool Corporation, assignee: *See*—
Forward, Worthy J. F.

Cook, Leon S., Enid, Okla. Toothbrush holder and toothpaste dispenser. 2,667,287, Jan. 26.

Cook, Melvin A.: *See*—
Burrows, Lawton A., and Cook.

Cossor, A. C., Limited, assignee: *See*—
Covill, Dennis H.

Court, Jean, Chatelaine-Geneva, assignor to Mefina S. A., Fribourg, Switzerland. Sewing machine. 2,667,133, Jan. 26.

Covill, Dennis H., assignor to A. C. Cossor Limited, London, England. Voltage stabilizing apparatus. 2,667,614, Jan. 26.

Cox, William A.: *See*—
Aguilar, John G., and Cox.

Crane Co., assignee: *See*—
Hansen, George E.

Creamer, Edgar M., Jr., and M. E. Partin, assignors to Philco Corporation, Philadelphia, Pa. Electrical system. 2,667,534, Jan. 26.

Crisafulli, Peter G., Newark, N. J. Weight actuated mechanism. 2,667,254, Jan. 26.

Croft, Charles P.: *See*—
Gladfelter, Wiltie I., and Croft.

Cumming, Helen J., executrix: *See*—
Van Sickle, Roswell C., and Cumming.

Cumming, James M.: *See*—
Van Sickle, Roswell C., and Cumming.

Cunningham, Frederic, Jr., Springfield Center, N. Y. Supersonic inspection device. 2,667,063, Jan. 26.

Cunningham, Harry C., assignor to Edwin L. Wiegand Company, Pittsburgh, Pa. Electric heating. 2,667,564, Jan. 26.

Cuno Engineering Corporation, The, assignee: *See*—
Ashton, Philip E.

Curtiss-Wright Corporation, assignee: *See*—
Robbins, William P.

Cuthbert, Stuart V.: *See*—
Marden, John W., and Cuthbert.

Daffern, Kenneth B., and R. I. Huffman, Dover, Ohio, assignors, by mesne assignments, to Knapp-Monarch Company, St. Louis, Mo. Steam iron with movable heating element. 2,666,998, Jan. 26.

Daimler-Benz Aktiengesellschaft, assignee: *See*—
Bensinger, Wolf D.

Dale Hydraulic Controls, Inc., assignee: *See*—
Dale, Joseph S.

Dale, Joseph S., assignor to Dale Hydraulic Controls, Inc., Rockford, Ill. Hydraulic speed governor. 2,667,345, Jan. 26.

Dandridge, Paul, Philadelphia County, assignor of forty per cent to Mrs. J. V. Ondo, Philadelphia, Pa. Record stack inverter for automatic phonographs and disk record players. 2,667,355, Jan. 26.

Daniels, Anthony J., Philadelphia, Pa. Device for dispensing liquids from tanks by either pumping means or pneumatic means. 2,667,289, Jan. 26.

Davis, Calvin V., La Grange, L. F. Harza, Highland Park, Ill., and J. F. Ward, Tacoma, Wash. Fish lock for downstream migration of fingerlings. 2,667,036, Jan. 26.

Davis, Patrick H., assignor to Champion Dish Washing Machine Company, Erie, Pa. Link conveying belt. 2,667,262, Jan. 26.

Davis, Thomas E., Rock Hill, S. C., assignor to Rock Hill Printing & Finishing Company. Method and means for coloring embossed fabric. 2,667,426, Jan. 26.

Davison, Roy W., Chicago, Ill. Brush. 2,666,940, Jan. 26.

Davol Rubber Company, assignee: *See*—
Raiche, Paul A.

Dayton Pump & Manufacturing Company, The, assignee: *See*—
Bergh, Charles J.

Dazzi, Joachim, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Trialkyl-1-benzoylpropane-1,2,3-tricarboxylates and preparing same. 2,667,504, Jan. 26.

Dazzi, Joachim, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Surface-active composition. 2,667,506, Jan. 26.

Dearborn Motors Corporation, assignee: *See*—
Blaauw, Andrew, and Findley.
Hauswirth, Vernon O.
Raught, Arthur V.
Richey, Clarence B.

De Directie van de Staatsmijnen in Limburg, assignee: *See*—
Zeegers, Rudolph N. G.

Deering Milliken Research Trust, assignee: *See*—
Klein, Norman E.

Delano, Clarence B., assignor of one-half to J. L. Kohler, Bristow, Okla. Quick set extension gauge. 2,667,190, Jan. 26.

Dell, Paul A.: *See*—
Noel, Edward B., and Dell.

Delmousèe, Georges, G. V. Austerwell, G. Lemoussu, and J. C. Poupinel, Paris, France. Purification and stabilization of fruit juices by ion exchange treatment. 2,667,417, Jan. 26.

Den Hertog, Martinus, and C. de Zeeuw, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y. Selection system for electrical circuits or equipments. 2,667,540, Jan. 26.

Denison, Henry W., and L. E. Johnson, assignors to Denison-Johnson, Inc., Mankato, Minn. Fishing reel. 2,667,312, Jan. 26.

Denison-Johnson, Inc., assignee: *See*—
Denison, Henry W., and Johnson.

Densham, Costin L., assignor to Wade Engineering Limited, Horley, England. Cooler for gas leaving roots blowers. 2,667,046, Jan. 26.

Desetti, Gild E.: *See*—
Branan, Wiley M., and Desetti.

Detroit Steel Products Company, assignee: *See*—
Kelly, Clyde W.

De Zeeuw, Constantinus: *See*—
Den Hertog, Martinus, and de Zeeuw.

Dictaphone Corporation, assignee: *See*—
Trevitt, John H.

Diebold, Frank, San Francisco, Calif. Gunrack. 2,667,274, Jan. 26.

Diffenderfer, John B., North Caldwell, N. J., assignor to Radio Corporation of America. Coating mixture with addition agent and coating therewith. 2,667,429, Jan. 26.

Dittman, Albert L.: *See*—
Wrightson, John M., and Dittman.

Doblhoff, Friedrich L., Zell am See, Austria, assignor to The Fairey Aviation Company Limited, Hayes, England. Jet-driven helicopter rotor. 2,667,226, Jan. 26.

Dockery, Majorie L.: *See*—
Millard, Everett M., Turner, Kurz, and Dockery.

Dole, James, Engineering Co., assignee: *See*—
Martin, William McK.

Donegan, Joseph W., New Brunswick, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Manufacture of activated carbon. 2,667,460, Jan. 26.

Doolittle, Howard D., Stamford, assignor to Machlett Laboratories, Incorporated, Springdale, Conn. Electron tube. 2,667,593, Jan. 26.

Dorr Company, The, assignee: *See*—
Graner, Frank L.

Dotti, Euterio L., Santa Fe, Argentina. Textile machine. 2,666,958, Jan. 26.

Douglass Automatic Shoeshining Co., Inc., assignee: *See*—
Jamieson, George C.

Douris, Roger G., Paris, and J. M. Bory, Montmorency, France. Stabilized aqueous solutions of paraaminosalicylic acid salts. 2,667,440, Jan. 26.

Dow Chemical Company, The, assignee: *See*—
Bauman, William C., and McMaster.

Downing, Cole, Decatur, Ala., assignor, by mesne assignments to The Chemstrand Corporation. Producing alkyl-substituted acylamides. 2,667,511, Jan. 26.

Dowty Equipment Limited, assignee: *See*—
Frye, Colin M., Killner, and Morris.

Drew, E. F., & Co., Inc., assignee: *See*—
Barsky, George, and Zinzalian.

Dreyfus, Ludwig, T. Thelemarck, I. Beckius, and H. Lindström, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Induction heating furnace. 2,667,524, Jan. 26.

Duell, Morgan V., Oakville, assignor to Scovill Manufacturing Company, Waterbury, Conn. Key loop supporting plate. 2,667,059, Jan. 26.

Duff, Robert H., Detroit, and R. A. Terry, Berkley, assignor to Chrysler Corporation, Highland Park, Mich. Power plant arrangement for servicing from outside front ends of vehicles. 2,667,230, Jan. 26.

Dungler, Julien, Basel, Switzerland. Treatment apparatus for cloth and like sheet material and equipped with means for shutting off the treatment fluid. 2,666,994, Jan. 26.

Dunipace, Donald W., Perrysburg, and I. G. Fowler, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Grinding and polishing glass sheets and plates. 2,667,018, Jan. 26.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Branan, Wiley M., and Desetti.
Burrows, Lawton A., and Cook.
Herrick, Elbert C., and Sauer.
Sauer, John C.

Durand, Paul, Paris, France. Change-speed gear. 2,667,080, Jan. 26.

Du Rostu, Georges L., assignor to Societe Anonyme Andre Citroen, Paris, France. Pressure-responsive membrane and movement limiting means therefor. 2,667,182, Jan. 26.

Dye, William T., Jr., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation. Chemical process for dialkylacylamides. 2,667,510, Jan. 26.

Eagle-Picher Company, The, assignee: *See*—
Grover, Anthony P., and Milden.

Eames, Charles, West Los Angeles, Calif., assignor, by mesne assignments, to Herman Miller Furniture Company, Zeeland, Mich. Chair construction with resiliently mounted seat and back. 2,667,210, Jan. 26.

Eastman Kodak Company, assignee: *See*—
Martin, Louis D.

Egee, Walter W., Yeadon, assignor to Fletcher Works Incorporated, Philadelphia, Pa. Bobbin drive for winding machines. 2,667,310, Jan. 26.

Ehemann, John W.: *See*—
Glass, Marvin I., and Ehemann.

Eissmann, Oswald E., Richmond, Va., assignor to American Machine Development Corporation. Apparatus and method for ripping and sorting tobacco leaves. 2,667,174, Jan. 26.

Electric & Musical Industries Limited, assignee: *See*—
Hart, Geoffrey W.
Rae, Alexander J.

Electrical Engineering and Manufacturing Corporation, assignee: *See*—
Gindroz, Frank H.

Electrol Incorporated, assignee: *See*—
Ashton, Benjamin N., Barkow, and Frain.

Electro-Physical Laboratories, Inc., assignee: *See*—
Traugott, Paul.

Ellerbeck, Thomas R., Salt Lake City, Utah. Calcining and calcining apparatus. 2,667,342, Jan. 26.

Ellis, Riley E., Griffin, and J. A. Ashkouti, Atlanta, Ga. Cotton harvester. 2,667,023, Jan. 26.

Ellison, Philip A., Pinetown, Natal, Union of South Africa. Improvement in or relating to rules, more particularly ruling lines on paper. 2,666,991, Jan. 26.

Emerson, Reginald S., assignor to D. Napier & Son Limited, London, England. Flexible pressure-responsive diaphragm. 2,667,183, Jan. 26.

Emerson, William S., and T. M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Thiophene derivatives. 2,667,494, Jan. 26.

Endo Products, Inc., assignee: *See*—
Schlesinger, Albert, Weiner, and Gordon.

Engensperger, Hansjörg, Rorschach, Switzerland. Sectional boat. 2,666,933, Jan. 26.

Engisch, George W.: *See*—
Perry, Stephen F., Engisch, and Marriner.

Enterprise Wheel and Car Corporation, assignee: *See*—
Jones, Frank A.

Erickson, Virginius R., assignor to Powder Power Tool Corporation, Portland, Oreg. Stud driving tool. 2,666,915, Jan. 26.

Ernst, Alfredo, Milan, Italy. Device for testing the hardness of metals. 2,667,065, Jan. 26.

Ernst, Alfredo, Milan, Italy. Device for testing the hardness of metals. 2,667,066, Jan. 26.

Erson, Erik G., Wilkinsburg, and G. M. Thomas, Dravosburg, Pa., assignors to Westinghouse Air Brake Company. Dynamic and fluid pressure brake interlock apparatus. 2,667,385, Jan. 26.

Evans, Seth, assignor to Hughes Tool Company, Houston, Tex. Rotary and impact tool. 2,667,144, Jan. 26.

Everitt, Philip F., and G. R. Jamieson, Seven Kings, England, assignors, by mesne assignments, to Kelvin & Hughes Limited. Periscopic sextant and other instruments. 2,666,990, Jan. 26.

Ewer, Philip A., London, England, assignor to General Electric Company. High-voltage electrical insulating bushing. 2,667,532, Jan. 26.

Fahnoe, Harold H., Wilkinsburg, and W. A. Gaskill, Turtle Creek, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric fuse construction. 2,667,549, Jan. 26.

Fairey Aviation Company Limited, The, assignee: *See*—
Doblhoff, Friedrich L.

Farbenfabriken Bayer Aktiengesellschaft, assignee: *See*—
Müller, Wilhelm, and Kircher.

Farris, Riley F., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Apparatus for sampling wells. 2,667,223, Jan. 26.

Farval Corporation, The, assignee: *See*—
Graves, George T.

Favre, John A., Drexel Hill, Pa., assignor to General Electric Company. Energy storing overrunning operating device. 2,667,076, Jan. 26.

Feinstone, Wolffe H., Indianapolis, Ind., assignor to Nepera Chemical Co., Inc., Yonkers, N. Y. Condensation products of trimethylhydroxyethyl ammonium hydroxide and dimethylxanthine and preparing same. 2,667,487, Jan. 26.

Fenske, Harry D., Detroit, Mich., assignor to National Steel Corporation. Conveyance construction. 2,667,243, Jan. 26.

Fenske, Merrell R., and R. B. Long, State College, Pa., assignors to Standard Oil Development Company. Liquid-liquid contact method and apparatus. 2,667,407, Jan. 26.

Ferguson, Stanley R., Abernethy, Saskatchewan, Canada. Clamp for nonmetallic sheathed cables. 2,667,368, Jan. 26.

Férier, Albert, Geneva, Switzerland. Apparatus for treating glass fiber cloth. 2,667,568, Jan. 26.

Feyrer, William F., assignor to N. L. Solomon, Englewood, N. J. Packaging apparatus and packaging. 2,667,019, Jan. 26.

Fick, Harold F., Beloit, Wis., assignor to Rochester Button Company, Rochester, N. Y. Bleaching keratinous materials. 2,667,475, Jan. 26.

Fincke, John K., San Jose, Calif., assignor to Monsanto Chemical Company, St. Louis, Mo. β-(tertiary alkylmercapto) N-ethyl quaternary pyridinium and quinolinium derivatives. 2,667,489, Jan. 26.

Findlay, Robert A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Manufacture of high octane gasoline. 2,667,446, Jan. 26.

Findley, George W.: *See*—
Blaauw, Andrew, and Findley.

Fischer, Harry G., and L. J. Wendling, assignors to The Apex Machine & Tool Company, Dayton, Ohio. Composite bit screw driver. 2,667,194, Jan. 26.

Fishburne, Francis B., and W. L. Rice, Asheville, N. C. Hogshead handling apparatus. 2,667,279, Jan. 26.

Flaws, John, Jr., East Cleveland, Ohio, assignor to General Electric Company. Method and apparatus for mounting filament wire. 2,667,189, Jan. 26.

Flemming, Albert E., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Vehicle directional signal system. 2,667,602, Jan. 26.

Fletcher Works Incorporated, assignee: *See*—
Egee, Walter W.

Folkers, Karl: *See*—
Hoffman, Dorothea H., Shunk, and Folkers.

Ford Motor Company, assignee: *See*—
Brock, Harold L., and Stevenson.
MacPherson, Earle S.
McCarthy, Russell J., and Siegert.

Forman, Louis: *See*—
Presley, Judd B., and Forman.

Forster Mfg. Co., Inc., assignee: *See*—
Lisherness, Hillman A.

Forward, Worthy J. F., assignor to Consolidated Machine Tool Corporation, Rochester, N. Y. Hydraulic chuck. 2,667,356, Jan. 26.

Foss, Burdette W., Fort Wayne, and S. L. Hunter, assignors to Ossian Engineering Co., Inc., Ossian, Ind. Pump. 2,667,125, Jan. 26.

Foster Engineering Corporation, The, assignee: *See*—
Foster, Shubel A.

Foster, Shubel A., Birmingham, assignor to The Foster Engineering Corporation, Royal Oak, Mich. Precision gauge. 2,666,993, Jan. 26.

Fowler, Ival G.: *See*—
Dunipace, Donald W., and Fowler.

Frain, John P.: *See*—
Ashton, Benjamin N., Barkow, and Frain.

Frankel, Theodor: *See*—
Kessler, Frank, and Frankel.

Franks Mfg. Corporation, assignee: *See*—
Wilkinson, Alvin H., and Pallein.

Fred, Mark S., Chicago, and E. G. Rauh, Hinsdale, Ill., assignors to the United States of America as represented by the United States Atomic Energy Commission. Liquid level control. 2,667,178, Jan. 26.

Fried, Jacob, Bronx, N. Y. Folded cardboard camera with winding knob retaining means. 2,667,111, Jan. 26.

Froedge, Andrew L., Oak Lawn, Ill. Automatic bending machine. 2,667,202, Jan. 26.

Frost, Marion E., Catonsville, Md. Automatic separator cutout switch. 2,667,629, Jan. 26.

Frye, Colin M., Longlevens, F. E. Killner, Prestbury, and A. K. Morris, Tewkesbury, assignors to Dowty Equipment Limited, Cheltenham, England. Resilient telescopic device. 2,667,348, Jan. 26.

Fuller Label & Box Company, assignee: *See*—
Monks, Frank E.

Fuqua, Mack C., and G. P. Hamner, Baton Rouge, La., assignors to Standard Oil Development Company. Decobalting oxo aldehydes with ion exchange resins. 2,667,514, Jan. 26.

Gabriel Company, The, assignee: *See*—
Trebules, Victor W.

Gardes, Alfred W., Detroit, Mich., assignor to Honan-Crane Corporation, Lebanon, Ind. Manifold for clarifier intakes. 2,667,273, Jan. 26.

Gardner, Charles J., Bradford, Pa. Automobile tail pipe connector. 2,667,372, Jan. 26.

Gardner, Leland A., and J. L. Hysko, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Carrier telegraph system. 2,667,536, Jan. 26.

Gardner, Leo R., Berkeley, assignor to California Spray-Chemical Corporation, Richmond, Calif. Screwworm fly control. 2,667,438, Jan. 26.

Gaskill, William A.: *See*—
Fahnoe, Harold H., and Gaskill.

Gebhardt, Erich, Ludwigsburg, and G. Schrag, Goppingen, assignors to Meinecke Metallurgie G. m. b. H., Hannover, Germany. Diffusion-substitution coating of metal articles from a tin salt melt. 2,667,433, Jan. 26.

Gebr. Storck & Co.'s Apparatenfabriek N. V., assignee: *See*—
Wagter, Hendrik.

General Aniline & Film Corporation, assignee: *See*—
Stratton, Charles H., and Williams.

General Electric Company, assignee: *See*—
Beatty, John W., and Schneider.
Boyajian, Aram.
Clark, William C.
Ewer, Philip A.
Favre, John A.
Flaws, John, Jr.
Goldthorpe, Harold H.
Greenhalgh, Milton S.
Griffiths, Leonard.
Hermanson, Herman E., and Lamb.
Martin, Robert W.
Miller, Homer H.
Noel, Edward B., and Dell.
Nolte, Henry J.
Page, Robert G.
Reitz, Clifford L., Lipski, and Young.
Rood, Robert M., and Keser.
Schlosser, Russell K., Jr.
Shores, Ronald B.
Strobel, Rudolph W.
Winn, Oliver H.
Wotring, Gaylord H.

General Fireproofing Company, The, assignee: *See*—
Swimmer, Albert T.

General Motors Corporation, assignee: *See*—
Guernsey, Robert W., and Ulrey.
Mead, Howard C., and Onksen.
Paluch, Milton M., and Teichert.
Purchas, William J., Jr., and Moser.

Ghersin, Ralph N., and G. L. Briggs, White Plains, N. Y. Multiangular clamp for glass panels or the like. 2,667,246, Jan. 26.

Gibbs, Thomas B., Delavan, Wis. Timing apparatus for clocks and watches. 2,667,061, Jan. 26.

Gilbert, Alfred G., South Acton, and W. H. Rogers, Jr., Malden, assignors to Reece Folding Machine Company, Woburn, Mass. Machine for shaping leather blanks into shoe components such as toe caps. 2,666,935, Jan. 26.

Giles, John E., Lockport, Ill. Grain hulling apparatus. 2,667,197, Jan. 26.

Gindroz, Frank H., Lawndale, assignor to Electrical Engineering and Manufacturing Corporation, Los Angeles, Calif. Stator for electrical machines. 2,667,591, Jan. 26.

Giorgi, Alberto J.: *See*—
Giorgi, Rodolfo B., Klein, Unkel, and A. J. Giorgi.

Giorgi, Rodolfo B., E. Klein, F. Unkel, and A. J. Giorgi, Buenos Aires, Argentina. Safety release device for mechanisms. 2,667,123, Jan. 26.

Gladfelter, Wiltie L., and C. P. Croft, Hagerstown, Md. Wet blasting apparatus. 2,667,014, Jan. 26.

Glass, Marvin I., and J. W. Ehemann, assignors to M. I. Glass, Chicago, Ill. Toy bank. 2,667,011, Jan. 26.

Glidden Company, The, assignee: *See*—
Julian, Percy L., and Karpel.

Glidden, Robert M.: *See*—
Moorehead, John O., Kurtz, and Glidden.

Goepfert, George J., and H. M. Canfield, assignors to The Carborundum Company, Niagara Falls, N. Y. Pressure sensitive adhesive coated sheet material. 2,667,436, Jan. 26.

Goerlich, Reinhard, Berlin-Schoneberg, Germany, assignor to International Standard Electric Corporation, New York, N. Y. Pneumatic carrier. 2,667,314, Jan. 26.

Goetz, Dorothy N., Tenafly, N. J., and R. C. La Borde, Bronxville, N. Y. Dispenser for articles of magnetic material. 2,667,394, Jan. 26.

Goff, George B. F., assignor to Cathodeon Limited, Cambridge, England. Television pickup tube. 2,667,600, Jan. 26.

Goldberg, Harold D. and M. I., Bronx, and H. I. Lippmann, New York, N. Y. Plethysmograph. 2,667,159, Jan. 26.

Goldberg, Milton I.: *See*—
Goldberg, Harold D. and M. I., and Lippmann.

Golden, Bertie C., assignor to Millhiser Bag Company, Inc., Richmond, Va. Bagmaking method and apparatus. 2,667,132, Jan. 26.

Goldthorpe, Harold H., Cleveland, Ohio, assignor to General Electric Company. Mounting bracket for tubular lamps. 2,667,570 Jan. 26.

Gooding, Chester M., Staten Island, N. Y., and H. W. Vahlteich, Englewood, N. J., and R. H. Neal, deceased, late of North Bergen, N. J., by E. Neal, administratrix, North Bergen, N. J., assignors to The Best Foods, Inc., New York, N. Y. Substantially dehydrated food products. 2,667,419, Jan. 26.

Goodman, Donald A., McCall, Idaho. Retractable ball ski binding. 2,667,359, Jan. 26.

Goodrich, B. F., Company, The, assignee: *See*—
Andrews, Mary M.
Harper, Thomas C.

Gordon, Allan C.: *See*—
Mathews, John E., and Gordon.

Gordon, Samuel M.: *See*—
Schlesinger, Albert, Weiner, and Gordon.

Gorton, George, Machine Co., assignee: *See*—
Gunderson, Allen D.

Govan, Jack F., Los Angeles, Calif. Furnace lining, lining furnaces, and the like. 2,666,975, Jan. 26.

Gradstein, Stephan, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn, as trustee. Device for producing screening images of body sections. 2,667,585, Jan. 26.

Grandstaff, Otho D., Oak Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Electronic ringing current generator. 2,667,632, Jan. 26.

Graner, Frank L., Cold Spring, N. Y., assignor to The Dorr Company, Stamford, Conn. Twin diaphragm pump with stress-relieved diaphragms. 2,667,129, Jan. 26.

Grant, William I., Kew Gardens, N. Y. Removable slider for slide fasteners. 2,666,970, Jan. 26.

Graves, George T., Bedford, assignor to The Farval Corporation, Cleveland, Ohio. Lubricant measuring spray means. 2,667,236, Jan. 26.

Graziano, Victor, Oak Park, assignor to Motorola, Inc., Chicago, Ill. Antenna. 2,667,577, Jan. 26.

Greenhalgh, Milton S., Bridgeport, Conn., assignor to General Electric Company. Insulation for electrical conductors. 2,667,464, Jan. 26.

Greenleaf, Nathaniel B., and L. C. Webster, Toronto, Ontario, Canada, assignors to Sponge Products Corporation, Chicago, Ill. Self-wringing mop. 2,666,939, Jan. 26.

Greenlee, William B.: *See*—
Schmitt, Otto H., and Greenlee.

Gregory, Charles E., Chicago, Ill. Direct drive transmission with automatically load responsive range of low gear ratios. 2,667,089, Jan. 26.

Griemsmann, John W. E.: *See*—
Weber, Ernst, Griemsmann, and Johnson.

Grieve, George T. W.: *See*—
Packer, Johnson L., and Grieve.

Griffin, William C., West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del. Aqueous solution inert to gelatin. 2,667,268, Jan. 26.

Griffiths, Leonard, Stoke, Coventry, England, assignor to General Electric Company. Electric switch. 2,667,544, Jan. 26.

Gross, Henry and S., East Finchley, London, England. Cash register key coupler mechanism. 2,667,303, Jan. 26.

Gross, Samuel: *See*—
Gross, Henry and S.

Groth, Fred A.: *See*—
Whitehill, Stanley M., and Groth.

Grove, Leo C., Elmhurst, and R. L. Thompson, Park Ridge, Ill., assignors to United States Rubber Company, New York, N. Y. Method and apparatus for drawing plastic sheets. 2,666,951, Jan. 26.

Grover, Anthony P., Willoughby, and W. M. Milden, Cleveland, assignors, by mesne assignments, to The Eagle-Picher Company, Cincinnati, Ohio. Curing press mechanism. 2,666,950, Jan. 26.

Guarantee Specialty Manufacturing Company, The, assignee: *See*—
Wright, Richard H.

Guenther, Edgar G., and R. C. Burton, Kingsport, Tenn., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Apparatus for the manufacture of plastic explosive pellets. 2,666,948, Jan. 26.

Guernsey, Robert W., Detroit, and R. C. Ulrey, Livonia, assignors to General Motors Corporation, Detroit, Mich. Torsional vibration isolating coupling. 2,667,049, Jan. 26.

Gundersen, Ralph W., St. Paul, Minn., assignor to Coach & Car Equipment Corporation, Chicago, Ill. Resiliently supported locomotive seat. 2,667,209, Jan. 26.

Gunderson, Allen D., assignor to George Gorton Machine Co., Racine, Wis. Multiple spindle engraving and the like machine tools. 2,666,989, Jan. 26.

Gustafson, Alfred N., assignor to Schramm, Inc., West Chester, Pa. Compressor inlet valve actuating mechanism. 2,667,299. Jan. 26.

Guyer, Walter R. F., Roselle, J. P. Thorn, Elizabeth, and E. Arundale, Westfield, N. J., assignors to Standard Oil Development Company. Making platinum-containing catalysts. 2,667,461, Jan. 26.

Haensel, Vladimir, Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of alumina particles. 2,667,404, Jan. 26.

Hafferty, William A.: *See*—
Wood, Edwin E., and Hafferty.

Hailer, Albert H., Isleworth, and F. S. Saunders, London; said Hailer assignor to Alltools Limited, Brentford, England. Hydrostatic coupling. 2,667,184, Jan. 26.

Hallisey, John C., Chicago, Ill. Portable inhalator. 2,667,397, Jan. 26.

Hamilton, William S. H., Larchmont, N. Y. Starting and operating circuits for fluorescent lamps. 2,667,604, Jan. 26.

Hammes, John W., Racine, Wis. Automatic control for garbage grinders. 2,667,308, Jan. 26.

Hamner, Glen P.: *See*—
Fuqua, Mack C., and Hamner.

Hanks, William E.: *See*—
McCune, John S., and Hanks.

Hanovia Chemical and Manufacturing Company, assignee: *See*—
Hilder, David L.

Hansen, George E., assignor to Crane Co., Chicago, Ill. Collapsible valve. 2,667,324, Jan. 26.

Harban, Arthur A., Hammond, and C. E. Johnson, Griffith, Ind., assignors to Standard Oil Company, Chicago, Ill. Alkenylation of thiophenes. 2,667,496, Jan. 26.

Hardigg, George W., Ridley Park, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Rotor construction. 2,667,327, Jan. 26.

Harney, Ervin C., Los Angeles, Calif., assignor to Phillips Petroleum Company. Hydrocarbon conversion process. 2,667,521, Jan. 26.

Harper, Thomas C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Flexible fluid-conducting connector. 2,667,369, Jan. 26.

Harris, Courtenay B.: *See*—
Viehe, Frederick W., and Harris.

Hart, Geoffrey W., Stoke Poges, assignor to Electric & Musical Industries Limited, Hayes, England. Moving target indication apparatus. 2,667,634, Jan. 26.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Gradstein, Stephan.
Kuntke, Alfred, and Mester.
Oswald, Karl.

Harvey, Merlin P.: *See*—
Ladd, Elbert C., and Harvey.

Harwin, C. W., Inc., assignee: *See*—
Roselund, Harold A.

Harza, Le Roy F.: *See*—
Davis, Calvin V., Harza, and Ward.

Hasche, Rudolph L., Johnson City, Tenn., assignor, by mesne assignments, to Koppers Company, Inc., Pittsburgh, Pa. Acetylene separation process. 2,667,234, Jan. 26.

Hauswirth, Vernon O., Royal Oak, assignor to Dearborn Motors Corporation, Birmingham, Mich. Mechanical memory apparatus for beet toppers or the like. 2,667,024, Jan. 26.

Hauswirth, Vernon O., Royal Oak, assignor to Dearborn Motors Corporation, Birmingham, Mich. Reel adjustment for side delivery rakes. 2,667,027, Jan. 26.

Havens, William C., Pampa, Tex. Rabbit hutch. 2,667,143, Jan. 26.

Haviland, Robert P., Scotia, N. Y. Radar receiver display system. 2,667,575, Jan. 26.

Hayes, Norman C.: *See*—
Jones, Alfred E., and Hayes.

Hefferline, John E.: *See*—
Wildish, Myron F., Hefferline, and Rippey.

Hemfort, Heinrich: *See*—
Schmitz, Carl, and Hemfort.

Hemfort, Heinrich, assignor to Westfalia Separator A. G., Oelde (Westphalia), Germany. Apparatus and method for centrifugally mixing liquids. 2,667,338, Jan. 26.

Hemphill Company, assignee: *See*—
St. Pierre, Eugene, and Wawzonek.

Henderson, Edgar F., Tacoma, Wash., assignor to Kaiser Aluminum & Chemical Corporation, Oakland, Calif. Apparatus for manipulating soderberg electrodes. 2,667,523, Jan. 26.

Henderson, Ray M., Bryan, Ohio. Evaporator and drip catcher arrangement for refrigerating apparatus. 2,667,041, Jan. 26.

Hensel, Walter E., South Berwick, Maine. Multiple jet spray device. 2,667,383, Jan. 26.

Hergenrother, Rudolf C., West Newton, assignor to Raytheon Manufacturing Company, Newton, Mass. Moving target indicator radar system. 2,667,635, Jan. 26.

Hermanson, Herman E., East Cleveland, and F. S. Lamb, Cleveland Heights, Ohio, assignors to General Electric Company. Electric incandescent lamp. 2,667,594, Jan. 26.

Heron, William E., Detroit, Mich. Erratic fishing lure. 2,667,007, Jan. 26.

Herrick, Elbert C., Boothwyn, Pa., and J. C. Sauer, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of acetylene to open chain polymers with nickel coordination compound catalysts. 2,667,520, Jan. 26.

Hersch, Paul, Birmingham, England, assignor to The International Nickel Company, Inc., New York, N. Y. Alkaline storage battery. 2,667,525, Jan. 26.

Herzog, Carl, Belleville, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire severing apparatus. 2,667,557, Jan. 26.

Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Analysis of subsurface formations by radioactivity. 2,667,583, Jan. 26.

Hesse, Jack E., Gretna, La., assignor to Johns-Manville Corporation, New York, N. Y. Manufacture of fiber-cement sheet laminates. 2,667,107, Jan. 26.

Hickey, Richard J., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of riboflavin by Ashbya gossypii with cobalt as additive. 2,667,445, Jan. 26.

Highberg, George A., West Hartford, Conn. Cam lock for chuck jaws. 2,667,358, Jan. 26.

Hilder, David L., Allentown, Pa., assignor to Hanovia Chemical and Manufacturing Company, Newark, N. J. Electrode for compact type electrical discharge devices. 2,667,592, Jan. 26.

Hill, Philip: *See*—
Towle, Philip H., and Hill.

Hill, William H., assignor to Koppers Company, Inc., Pittsburgh, Pa. Reaction products of N-heterocyclic ammonium thiocyanates and aldehydes. 2,667,490, Jan. 26.

Hilpman, John H., Springfield Gardens, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing machine. 2,667,265, Jan. 26.

Hinton, Francis J., Wauwatosa, Wis. Duplex flat construction. 2,666,960, Jan. 26.

Hirt, Otto: *See*—
Westinger, Karl, Altenburger, and Hirt.

Hobbs, Howard F., and J. A. Thompson, assignors to Hobbs Transmission Limited, Leamington Spa, England. Nonfluttering valve for power transmission apparatus. 2,667,145, Jan. 26.

Hobbs Transmission Limited, assignee: *See*—
Hobbs, Howard F., and Thompson.

Hoch, Edward G., Minneapolis, Minn. Milk bottle crate. 2,667,284, Jan. 26.

Hoeckele, Karl, Newark, N. J. Needle threader. 2,667,294, Jan. 26.

Hoffman, Dorothea H., Rahway, C. H. Shunk, Scotch Plains, and K. Folkers, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Benzimidazole phosphate. 2,667,479, Jan. 26.

Holan, J. H., Corporation, assignee: *See*—
Troche, Herman J., and Holan.

Holan, James H.: *See*—
Troche, Herman J., and Holan.

Hollifield, Roy G., Brooklyn, N. Y. Swivel connection for vehicle units. 2,667,365, Jan. 26.

Hollins, Jesse R., Brooklyn, N. Y. Vehicle directional and emergency parking signal control system. 2,667,603, Jan. 26.

Hollins, Jesse R., Brooklyn, N. Y. Vehicle directional and emergency parking signal control system. 2,667,627, Jan. 26.

Holloway, Charles G., Elmira, N. Y. Cow barn gutter cleaner. 2,667,264, Jan. 26.

Holme-Shaw, Norman M., assignor to Visilite Corporation, Saginaw, Mich. Glare shield and clip therefor. 2,667,378, Jan. 26.

Holsing, Robert H., assignor to The Timken Roller Bearing Company, Canton, Ohio. Rotary percussion drill. 2,667,373, Jan. 26.

Holte, Paul C., Canton, assignor to Pullman Vacuum Cleaner Corporation, Boston, Mass. Coupling for conduit parts. 2,667,371, Jan. 26.

Honan-Crane Corporation, assignee: *See*—
Gardes, Alfred W.

Hopley, Horace E.: *See*—
Beale, Charles E., and Hopley.

Houdaille-Hershey Corporation, assignee: *See*—
Sandberg, Ray A.

Howard, George C., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Well completion process. 2,667,224, Jan. 26

Howe Twister Corporation, assignee: *See*—
Uhlig, Henry C.

Huber, Robert, Bellevue, France, assignor to Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A., Geneva, Switzerland. Free piston machine the compressor portion of which includes at least two stages. 2,667,300, Jan. 26.

Hubmann, Otto, Bad Homburg vor der Hoehe, Germany. Gas producer. 2,667,409, Jan. 26.

Huck, Alfred J., and C. D. Visos, assignors to Knapp-Monarch Company, St. Louis, Mo. Lower bowl construction for vacuum type coffee makers and switch therefor. 2,667,566, Jan. 26.

Huebner Company, The, assignee: *See*—
Huebner, William C.

Huebner, William C., Mamaroneck, N. Y., assignor to The Huebner Company, Dayton, Ohio. Printing method and apparatus. 2,667,121, Jan. 26.

Huffman, Russell I.: *See*—
Dafforn, Kenneth B., and Huffman.

Hughes Tool Company, assignee: *See*—
Barnett, Wilford J., and Carlson.
Evans, Seth.

Hunter Douglas Corporation, assignee: *See*—
Rutledge, Melvin C.

Hunter, Scott L.: *See*—
Foss, Burdette W., and Hunter.

Hunter, William A., and F. Singleton, assignors to T. M. M. (Research) Limited, Helmshore, Rossendale, England. Apparatus for use in conveying and opening textile fibrous materials. 2,666,956, Jan. 26.

Hunter, William A., assignor to T. M. M. (Research) Limited, Helmshore, Rossendale, England. Machine for the intensive opening of fibrous materials. 2,666,957, Jan. 26.

Hurtado S., Ricardo, Bogota, Colombia. Spool for typewriter ribbons. 2,667,257, Jan. 26.

Husqvarna Vapenfabriks Aktiebolga, assignee: *See*—
Asp, Ivar A., and Berg.

Hydropress, Inc., assignee: *See*—
Reichl, Reymond M., and Singer.

Hyman, Howard D., Ottawa, Ontario, Canada, and E. M. Root, Decatur, Ga., assignors to The Black-Clawson Company, Hamilton, Ohio. Paper machinery. 2,667,106, Jan. 26.

Hysko, John L.: *See*—
Gardner, Leland A., and Hysko.

Hytron Radio & Electronics Co., assignee: *See*—
Sokolov, David A.

Imperial Chemical Industries Limited, assignee: *See*—
Adams, Dennis A. W., and Wilson.
Ashcroft, Donald G., and Pitcairn.
Rigby, Charles H.

Ingersoll Milling Machine Company, The, assignee: *See*—
Bowen, Earl M.

Ingram, James R., Dallas, Tex. Roller bracket for lawn mowers. 2,667,026, Jan. 26.

International Cigar Machinery Co., assignee: *See*—
Clausen, Sigurd, and Neumair.
Wheeler, Henry H.

International Nickel Company, Inc., The, assignee: *See*—
Hersch, Paul.

International Standard Electric Corporation, assignee: *See*—
Bailey, Robert S.
den Hertog, Martinus, and de Zeeuw.
Goerlich, Reinhard.
Staschover, Leo.
Wright, Esmond P. G.
Wright, Esmond P. G., and Rice.

Invention Development Corporation, assignee: *See*—
Odland, Alfred O.

Irwin, Neisler and Company, assignee: *See*—
Marty, Bernard A.

Isaacs, Marcus M., St. Leonards, New South Wales, Australia. Buckle and like mounting. 2,666,926, Jan. 26.

Jacob, Dorothy, assignor of ninety-nine per cent to Helen Unterman, Brooklyn, N. Y. Slit rubber nib for garment hangers. 2,667,293, Jan. 26.

Jacobs, Clare S., Grosse Pointe, assignor to F. L. Jacobs Co., Detroit, Mich. Combined liner and cover for leaf springs. 2,667,347, Jan. 26.

Jacobs, F. L., Co., assignee: *See*—
Jacobs, Clare S.

Jacobson, Leo V., Webster Groves, Mo. Simulated treaded vehicle. 2,667,349, Jan. 26.

Jacoby, Robert H.: *See*—
Steitz, Alfred, Jr., and Jacoby.

Jakob, Robert H., San Francisco, R. W. H. Tess, and T. F. Bradley, Orinda, assignors to Shell Development Company, Emeryville, Calif. Interpolymer of cyclodiolefine and an unsaturated ester. 2,667,463, Jan. 26.

Jamieson, George C., assignor to Douglass Automatic Shoeshining Co., Inc., Oakland, Calif. Shoe polishing wax applicator. 2,666,938, Jan. 26.

Jamieson, George R.: *See*—
Everitt, Philip F., and Jamieson.

Jaron, Robert, Pawtucket, R. I. Dust collector hood construction. 2,667,017, Jan. 26.

Jaycox, Gordon H., Passaic, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Coiling head assembly. 2,667,204, Jan. 26.

Jeckert, Helen A., assignee: *See*—
Jeckert, Joseph F.

Jeckert, Joseph F., deceased, Clifton, N. J., L. Jeckert, executrix, assignor to H. A. Jeckert, Clifton, N. J. Automatic stop mechanism for sewing machines. 2,667,134, Jan. 26.

Jeckert, Leonora, executrix: *See*—
Jeckert, Joseph F.

Jefferson Electric Company, assignee: *See*—
Berthel, Gust A.

Jefferson, Sidney, Malvern, assignor to National Research Development Corporation, London, England. Yarn cutting arrangement in automatic looms. 2,667,187, Jan. 26.

Johansson, Isak E.: *See*—
Tesch, E. T. A., and Johansson.

Johns-Manville Corporation, assignee: *See*—
Clarvoe, George W., and Pomeroy.
Hesse, Jack E.

Johns, Stanley S., Baltimore, Md., assignor to Rheem Manufacturing Company, Richmond, Calif. Conveyer line handling and testing of manufactured articles. 2,667,062, Jan. 26.

Johnson, Carl E.: *See*—
Harban, Arthur A., and Johnson.

Johnson, Edwin E., Samson, Ala. Peanut harvester. 2,667,021, Jan. 26.

Johnson & Johnson, assignee: *See*—
Ashton, William H.

Johnson, Lloyd E.: *See*—
Denison, Henry W., and Johnson.

Johnson, Stanley A.: *See*—
Waller, William E., and Johnson.
Weber, Ernst, Griemsmann, and Johnson.

Johnston, Allen, and L. F. Lotter, Oconto Falls, Wis. Turret type luggage carrier for automotive vehicles. 2,667,295, Jan. 26.

Jones, Alfred E., Kingston-on-Thames, and N. C. Hayes, Worcester, England. Air navigational device for computing corrections for track errors. 2,667,305, Jan. 26.

Jones, Frank A., Bristol, Tenn., assignor to Enterprise Wheel and Car Corporation, Bristol, Va. Underslung variable rate spring assembly for trailer trucks. 2,667,361, Jan. 26.

Jones, Wilford D., and S. B. McFarlane, Summit, N. J., assignors to Celanese Corporation of America, New York, N. Y. Making polysulfonamides from bis-sulfonyl chloride and diamine salt in presence of water and water-immiscible solvent. 2,667,468, Jan. 26.

Jones, Wilford D., and S. B. McFarlane, Summit, N. J., assignors to Celanese Corporation of America, New York, N. Y. Preparation of disulfonic acids. 2,667,507, Jan. 26.

Jordan, James F., Huntington Park, Calif. Vapor-phase smelting process. 2,667,413, Jan. 26.

Jorgensen, Asger L., Copenhagen, Denmark. Automatic fire alarm system. 2,667,630, Jan. 26.

Jorgensen, David F., Altadena, Calif. Lifting device. 2,667,330, Jan. 26.

Joy Manufacturing Company, assignee: *See*—
Collins, Samuel C.

Julian, Percy L., Maywood, and W. J. Karpel, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio. Selective dehalogenation of certain halogenated ketones. 2,667,498, Jan. 26.

Kaiser Aluminum & Chemical Corporation, assignee: *See*—
Henderson, Edgar F.

Kallmann, Hartmut, New York, N. Y., assignor to the United States of America represented by the Secretary of the Army. Energy proportional counting of exterior radiation. 2,667,586, Jan. 26.

Kambourakis, Nicholas M., New York, N. Y. Sun bathing apparatus. 2,667,169, Jan. 26.

Kane, Ernest M., Oxnard, Calif. Shock indicating device. 2,667,142, Jan. 26.

Karlen, Hermann, Emmenbrucke, near Lucerne, Switzerland, and E. Colombu, Paris, France, assignors to Societe de la Viscose Suisse, Emmenbrucke, near Lucerne, Switzerland. Apparatus for the fluid treatment of yarn. 2,667,055, Jan. 26.

Karpel, William J.: *See*—
Julian, Percy L., and Karpel.

Kauffman, John H., Eustis, Fla. Packaging and dispensing frozen beverage forming concentrates. 2,667,422, Jan. 26.

Kaye's Rotaprint Agency Limited, assignee: *See*—
King, Carl G.

Keal, John J., assignor to Brown-Saltman, South Gate, Los Angeles, Calif. Vertically adjustable table structure, 2,667,391, Jan. 26.

Keating, Chester L., Jr., New Orleans, La. Absorption refrigeration system for mobile application. 2,667,040, Jan. 26.

Kellogg, M. W., Company, The, assignee: *See*—
Wrightson, John M., and Dittman.

Kelly, Clyde W., assignor to Detroit Steel Products Company, Detroit, Mich. Filler plate for reversible hinges. 2,666,945, Jan. 26.

Kelvin & Hughes Limited, assignee: *See*—
Everitt, Philip F., and Jamieson.

Keser, Otto A.: *See*—
Rood, Robert M., and Keser.

Kessler, Frank, and T. Frankel, Rochester, N. Y., assignors to Stromberg-Carlson Company. Automatic telephone connector circuit. 2,667,539, Jan. 26.

Kilham, Peter, Plainville, Mass. Bending brake attachment for vise jaws. 2,667,201, Jan. 26.

Killner, Frederick E.: *See*—
Frye, Colin M., Killner, and Morris.

Kilmer, Edwin R., Johnstown, N. Y. Foldable bucksaw and case therefor. 2,667,195, Jan. 26.

King, Carl G., Kenton, assignor to Kaye's Rotaprint Agency Limited, London, England. Cylinder interrupter for offset lithographic printing machines. 2,667,120, Jan. 26.

Kircher, Heinrich: *See*—
Miller, Wilhelm, and Kircher.

Kirkpatrick, Arthur H., assignor to Frederic B. Stevens Incorporated, Detroit, Mich. Drying apparatus. 2,666,995, Jan. 26.

Klamp, Paul, assignor to Mechanical Handling Systems, Inc., Detroit, Mich. Overload protector. 2,667,050, Jan. 26.

Klein, Ernesto: *See*—
Giorgi, Rodolfo B., Klein, Unkel, and Giorgi.

Klein, Norman E., Stamford, Conn., assignor to Deering Milliken Research Trust, New York, N. Y. Tension device. 2,667,313, Jan. 26.

Klein, Walter L., Chicago, Ill. Receptacle. 2,667,198, Jan. 26.

Kleindienst & Co., offene Handelsgesellschaft, assignee: *See*—
Petrich, Erwin.

Kleinholz, Milton P., East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y. Prevention of rust. 2,667,408, Jan. 26.

Knapp-Monarch Company, assignee: *See*—
Dafforn, Kenneth B., and Huffman.
Huck, Alfred J., and Visos.
Lautner, Max E.

Knee, Simon, Newark, N. J. Combination purse or pocketbook. 2,667,199, Jan. 26.

Knuth, Harvey G., Elgin, assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Convertible cabinet. 2,667,401, Jan. 26.

Kohler, John L., assignee: *See*—
Delano, Clarence B.

Koppers Company, Inc., assignee: *See*—
Hasche, Rudolph L.
Hill, William H.

Kottmann, Arthur A., and P. C. Bauer, Davenport, assignors to The Bettendorf Company, Bettendorf, Iowa. Cooky machine. 2,667,130, Jan. 26.

Kramcsak, Michael, Jr., assignor to The Bassick Company, Bridgeport, Conn. Caster glide. 2,666,943, Jan. 26.

Krasnov, George S. and N. I., Melrose Park, Pa. Slip cover for upholstered furniture. 2,667,211, Jan. 26.

Krasnov, Norman I.: *See*—
Krasnov, George S. and N. I.

Kuehn, Gustave C.: *See*—
Terry, Rex A., and Kuehn.

Kullmer, Frank, Burlingame, assignor to Soule Steel Company, San Francisco, Calif. Prefabricated metal panel joining member. 2,667,242, Jan. 26.

Kuntke, Alfred, Hamburg-Wellingsbuttel, and H. Mester, Hamburg, Germany, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Protecting device for X-ray apparatus. 2,667,587, Jan. 26.

Kurland, Jerome J., Chicago, and Joseph J. Kurland, Glencoe, Ill. Apparatus for making terminal strips. 2,667,203, Jan. 26.

Kurland, Joseph J.: *See*—
Kurland, Jerome J., and Joseph J. Kurland.

Kurtz, Edward F.: *See*—
Moorehead, John O., Kurtz, and Glidden.

Kurtz, John, Chicago, Ill. Combination window and storm window construction. 2,666,963, Jan. 26.

Kurz, Henry M.: *See*—
Millard, Everett M., Turner, Kurz, and Dockery.

La Borde, Robert C.: *See*—
Goetz, Dorothy N., and La Borde.

Ladd, Elbert C., and M. P. Harvey, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y. Alkyl esters of polyhalogenoalkenyl malonic acids. 2,667,505, Jan. 26.

Lamb, Frederick S.: *See*—
Hermanson, Herman E., and Lamb.

Lane, Stanley C., Roselle, and H. H. Vickers, Union, N. J., assignors to Standard Oil Development Company. Handling finely divided solid materials. 2,667,280, Jan. 26.

Lang, Harry, St. Paul, Minn. Dress. 2,666,920, Jan. 26.

Lang, Heinrich, Munich, Germany. Fuel injection and distributing apparatus for internal-combustion engines. 2,667,152, Jan. 26.

Lang, Karl A., Glenview, assignor to Lindberg Engineering Company, Chicago, Ill. Current control apparatus. 2,667,616, Jan. 26.

Langberg, Edwin, Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of the Army. Maximum voltage selector. 2,667,590, Jan. 26.

Lanice, Theodore R., Freeport, N. Y. Chess game device. 2,667,353, Jan. 26.

Lapinski, Walter F., and J. L. Scott, Seattle, Wash. Telephone and memorandum paper holder. 2,667,367, Jan. 26.

La Radio-Industrie S. A., assignee: *See*—
Mandel, Paul.

Larson, Robert J., Springfield, Mass., assignor, by mesne assignments, to The Chemstrand Corporation. Removing small quantities of dimethylamine from dimethylacetamide. 2,667,451, Jan. 26.

Laskowitz, Isidor B., Brooklyn, N. Y. Variable speed counter-rotating rotor system for helicopters and control means therefor. 2,667,227, Jan. 26.

Lautner, Max W., Webster Groves, assignor to Knapp-Monarch Company, St. Louis, Mo. Dual-purpose fan. 2,667,301, Jan. 26.

Lawson, George S., Perry, and J. C. Lawson, Euclid, assignors, by mesne assignments, to The Burr Rubber Products Company, Sandusky, Ohio. Apparatus for distributing rubber in molds. 2,666,952, Jan. 26.

Lawson, James C.: *See*—
Lawson, George S. and J. C.

Leanse, Leon G., Nassau, Bahamas. Producing upright hollow walls of reinforced concrete. 2,666,974, Jan. 26.

Lebert, Herbert A., Milibrae, Calif. Crimped wrapper for cigarettes. 2,667,170, Jan. 26.

Lebocey, Bernard J. E., assignor to Societe a Responsabilite Limitee so-called: Lebocey Machines, Troyes, France. Thread feeder for knitting and hosiery machines. 2,667,052, Jan. 26.

Le Clair, Camille C. S., London, assignor to Tecalemit Limited, Brentford, England. Pump. 2,667,124, Jan. 26.

Le Clair, Camille C. S., London, assignor to Tecalemit Limited, Brentford, England. Lubricant pump. 2,667,126, Jan. 26.

Le Clair, Camille C. S., Acton, London, assignor to Tecalemit Limited, Brentford, England. Liquid or lubricant distribution system. 2,667,235, Jan. 26.

Ledinegg, Max, assignor of one-half to Simmering-Graz-Pauker Aktiengesellschaft für Maschinen-, Kessel- und Waggonbau, Vienna, Austria. Gas turbine. 2,667,326, Jan. 26.

Lehane, Timothy J., North Riverside, and W. M. Smith, Glen Ellyn, assignors to Vapor Heating Corporation, Chicago, Ill. Temperature and ventilation control apparatus for buses. 2,667,336, Jan. 26.

Lehmann, Elmer, Sr., Belleville, Ill. Weedless artificial bait. 2,667,006, Jan. 26.

Lehmeier, Carl: *See*—
Watson, Romaine E., Boston, and Lehmeier.

Leifheit, Edward J., Port Washington, N. Y. Mooring buoy and cable. 2,666,934, Jan. 26.

Lemoussu, Georges: *See*—
Delmousée, Georges, Austerweil, Lemoussu, and Poupinel.

Lenahan, John E., Cornwall-on-Hudson, N. Y. Apparatus for handling recumbent persons. 2,666,930, Jan. 26.

Leonard, Guy, Houston, Tex. Bottle opener with pivotally mounted cap skirt engaging means. 2,667,093, Jan. 26.

Leonard, Henry M., Brooklyn, N. Y. Automatic direction signal. 2,667,545, Jan. 26.

Lepkowski, Thomas W., New York, N. Y. Steerable jet propeller boat. 2,667,141, Jan. 26.

Lethcoe, Joseph, Springfield, Ohio. Detachable light for motor trucks and trailers. 2,667,569, Jan. 26.

Levrero, Hugo A., Montevideo, Uruguay. Fluid operated power generator. 2,667,589, Jan. 26.

Lewis, Frederic M., Belleville, Ontario, Canada, assignor to J. Saman, Watertown, N. Y. Foldable fence. 2,667,335, Jan. 26.

Lewis, Warren J., assignor to The Ohio Brass Company, Mansfield, Ohio. Expansion anchor spring biased apart at entering end. 2,667,099, Jan. 26.

Leystra, Peter, Fair Lawn, N. J. Rolling base for trash cans and the like. 2,667,360, Jan. 26.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Dunipace, Donald W., and Fowler.
Young, Thomas K., and McAuley.

Libman, Dennis D.: *See*—
Slack, Ronald, Libman, and Pain.

Liechti, Hans W., Riehen, assignor to Ciba Limited, Basel, Switzerland. Disazo-dyestuff. 2,667,477, Jan. 26.

Liggett, Charles L., Goodlettsville, Tenn. Table or the like with normally concealed minor service member. 2,667,396, Jan. 26.

Lindberg Engineering Company, assignee: *See*—
Lang, Karl A.

Lindeman, Charles A., Jr., Cicero, Ill. Electrical fuse wall outlet. 2,667,547, Jan. 26.

Linder, Ernest G., Princeton, N. J., assignor to Radio Corporation of America. Electron discharge apparatus utilizing a cavity resonator. 2,667,598, Jan. 26.

Lindström, Hugo: *See*—
Dreyfus, Ludwig, Thelemarck, Beckius, and Lindström.

Lippmann, Heinz I.: *See*—
Goldberg, Harold D. and M. I., and Lippmann.

Lipski, Edward G.: *See*—
Reitz, Clifford L., Lipski, and Young.

Lisherness, Hillman A., North Anson, Maine, assignor, by mesne assignments, to Forster Mfg. Co., Inc. Clothespin making machine. 2,667,191, Jan. 26.

Litton, Charles V., Redwood City, Calif. Magnetron with valence electrode. 2,667,580, Jan. 26.

Lituchy, Noel J., New York, N. Y. Electric light flasher. 2,667,550, Jan. 26.

Llanusa, Avelino F., Manzanillo, Cuba. Combined hoisting and weighing device. 2,667,275, Jan. 26.

Lockett, Walter E., Timmins, Ontario, Canada. Rung lock. 2,666,966, Jan. 26.

Lodestar Corporation, The, assignee: *See*—
Tripodi, Anthony J.

Long, Robert B.: *See*—
Fenske, Merrell R., and Long.

Longley, Raymond I., Jr.: *See*—
Morner, Richard R., and Longley.

Longley, Raymond I., Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparing unsaturated ethers. 2,667,517, Jan. 26.

Lotter, Leo F.: *See*—
Johnston, Allen, and Lotter.

Lovekin, Louise G., Fairfield, Conn. Disposable diaper. 2,667,168, Jan. 26.

Lucas, Alfred R., Galion, Ohio. Thermostatically controlled electric switch. 2,667,612, Jan. 26.

Lummus Company, The, assignee: *See*—
Mekler, Valentine.

Lynch Corporation, assignee: *See*—
Sandberg, Oscar.

Lyon Metal Products, Incorporated, assignee: *See*—
Knuth, Harvey G.

MacDonald, William W., and J. R. Pomfret, San Francisco, Calif., assignors, by mesne assignments, to Peterbilt Motors Company. Lift truck. 2,667,283, Jan. 26.

MacDougall, Donald J., Framingham, assignor to Combustion Control Corporation, Cambridge, Mass. Photoelectric apparatus. 2,667,102, Jan. 26.

Mach, Herman, Porterville, Calif. Flexible walled measuring pocket with inlet and outlet cutoffs. 2,667,288, Jan. 26.

Machlett Laboratories, Incorporated, assignee: *See*—
Doolittle, Howard D.

MacNamara, William, assignor to Proctor Electric Company, Philadelphia, Pa. Manual control mechanism. 2,667,084, Jan. 26.

MacPherson, Earle S., Huntington Woods, assignor to Ford Motor Company, Dearborn, Mich. Vehicle chassis and motor support thereon. 2,667,231, Jan. 26.

Madsen, Berthel F., assignor to Teletype Corporation, Chicago, Ill. Line feed mechanism. 2,667,256, Jan. 26.

Magyar, John A., Maple Heights, Ohio. Chair and table combination. 2,667,207, Jan. 26.

Maher, William W., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Liquid adhesive applying mechanism with piston feed. 2,667,138, Jan. 26.

Mahoney, Joseph A., New York, and W. T. Rea, Manhasset, N. Y., and C. B. Sutliff, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph repeater. 2,667,537, Jan. 26.

Manchester, Clyde C., Stryker, Ohio. Tubular cleat wrench with circumferentially spaced gripping teeth. 2,667,095, Jan. 26.

Mandel, Paul, assignor to La Radio-Industrie S. A., Paris, France. Electric signal encoder. 2,667,633, Jan. 26.

Manger, Charles F., assignor to The Bentley Engineering Company Limited, Leicester, England. Yarn furnishing device. 2,667,266, Jan. 26.

Mansfield Sanitary Pottery, Inc., assignee: *See*—
Smith, Harry F.

March, William K., assignee: *See*—
Skillman, Claude T.

Marden, John W., East Orange, and S. V. Cuthbert, North Caldwell, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Low temperature fabrication of molybdenum and alloys thereof. 2,667,435, Jan. 26.

Maribiast Corporation, assignee: *See*—
Berg, Ralph R.

Marriner, Richard A.: *See*—
Perry, Stephen F., Engisch, and Marriner.

Marsden, George B., assignor to Chicago Nipple Manufacturing Company, Cicero, Ill. Differential cylinder. 2,667,035, Jan. 26.

Martin, Edward G., Cambridge, Mass. Cavity tuner. 2,667,623, Jan. 26.

Martin, Louis D., assignor to Eastman Kodak Company, Rochester, N. Y. Making gear tooth shaving tools. 2,667,090, Jan. 26.

Martin, Robert W., Lafayette, Calif., assignor to General Electric Company. Cyclopentadienylsilanes. 2,667,501, Jan. 26.

Martin, Wilbur N., Canton, Ohio. Drilling machine. 2,667,333, Jan. 26.

Martin, William M., San Mateo, Calif., assignor to James Dole Engineering Co. Apparatus and method for filling products in containers. 2,667,424, Jan. 26.

Marty, Bernard A., assignor to Irwin, Neisler and Company, Decatur, Ill. Theophylline composition containing antinauseant factors. 2,667,439, Jan. 26.

Marx, Joseph P., Hartford, Wis. Exhaust manifold for internal-combustion engines. 2,667,151, Jan. 26.

Maschinenfabrik Hasenclever A.-G., assignee: *See*—
Aeckersberg, Gustav, and Nilgen.

Maskinaffar, Gunnar E., assignee: *See*—
Skoglund, Curt P.

Mason, Roland G., Seattle, Wash. Extensible article support. 2,667,323, Jan. 26.

Massier, John, Greensburg, Pa., assignor to Servel, Inc., New York, N. Y. Electrocatalytic gas igniter. 2,667,605, Jan. 26.

Mathews, Bernard C.: *See*—
Andersen, Arthur A., and Mathews.

Mathews, John E., Cleveland, and A. C. Gordon, Maple Heights, Ohio. Game device. 2,667,354, Jan. 26.

Mathieson Chemical Corporation, assignee: *See*—
Cline, Warren K.
Morningstar, Ralph E.

Mathisen, Arne L., Sandvika, Norway. Traction chain shoe. 2,667,386, Jan. 26.

Maumee Development Company, assignee: *See*—
Senn, Oliver F.

May & Baker Limited, assignee: *See*—
Slack, Ronald, Libman, and Pain.

May, Harry C., East McKeesport, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Power and brake controller. 2,667,247, Jan. 26.

Maybach, Karl, assignee: *See*—
Meyer, Gustav.

Mayer, Lazare, Chicago, Ill. Headgear. 2,666,925, Jan. 26.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

McAuley, James W.: *See*—
Young, Thomas K., and McAuley.

McCarthy, Russell J., Detroit, and M. E. Siegert, Plymouth, assignors to Ford Motor Company, Dearborn, Mich. Extensible visor for motor vehicles. 2,667,222, Jan. 26.

McCarty, Chester A., Palm Springs, Calif. Cooling system for automotive vehicles. 2,667,045, Jan. 26.

McChrystal, Richard G., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Producing gels. 2,667,457, Jan. 26.

McCullough, Robert J., Celina, Ohio. Anchor support for boats. 2,667,140, Jan. 26.

McCune, John S., and W. E. Hanks, assignors to Oilwell Drain Hole Drilling Co., Long Beach, Calif. Flexible shaft well drilling equipment. 2,667,332, Jan. 26.

McElroy, John F., Somerville, N. J., assignor to Permacel Tape Corporation. Nitrogen derivatives of tetraacetic acids as rubber stabilizers. 2,667,522, Jan. 26.

McFarlane, Samuel B.: *See*—
Jones, Wilford D., and McFarlane.

McFee, Earl P., Gloucester, Mass., assignor to Monsanto Chemical Company. Stabilization of fish press liquor. 2,667,416, Jan. 26.

McKinney, Marion O., Jr., and J. P. Campbell, Hampton, Va. Nonlifting towed target glider. 2,667,351, Jan. 26.

McKinnis, Art C., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Manufacture of formaldehyde. 2,667,513, Jan. 26.

McLoad, Kenneth W., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Swivel coupling for seismic surveying systems. 2,667,531, Jan. 26.

McMaster, Elmer L.: *See*—
Bauman, William C., and McMaster.

McMullen, Rafry L., Spokane, Wash. Head for musical instruments. 2,667,098, Jan. 26.

McOrily, Joseph, Wilkinsburg, assignor to Edwin L. Wiegand Company, Pittsburgh, Pa. Electric radiant heating. 2,667,563, Jan. 27.

McPhee, James E., Culver City, Calif. Liquid dispenser for bottles. 2,667,290, Jan. 26.

McRae, Edwin C.: *See*—
Bell, William R., and McRae.

McReary, Ronald, Corvallis, Oreg. Handled carton for bakery products and the like. 2,667,297, Jan. 26.

Mead, Howard C., and G. W. Onksen, Jr., Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Tail lamp lens. 2,667,572, Jan. 26.

Mechanical Handling Systems, Inc., assignee: *See*—
Klamp, Paul.

Mefina S. A., assignee: *See*—
Court, Jean.

Meinecke Metallurgic G. m. b. H., assignee: *See*—
Gebhardt, Erich, and Schrag.

Mekler, Valentine, Jackson Heights, assignor to The Lummus Company, New York, N. Y. Heating of hydrocarbon fluids. 2,667,449, Jan. 26.

Mennear, William C., New Westminster, British Columbia, Canada. Rear axle for vehicles. 2,667,047, Jan. 26.

Merck & Co., Inc., assignee: *See*—
Hoffman, Dorothea H., Shunk, and Folkers.

Mergenthaler Linotype Company, assignee: *See*—
Hilpman, John H.

Mesi, Phillip J., and S. T. Ogorek, assignors to Totebrush, Inc., Chicago, Ill. Combined ash receiver and coaster unit. 2,667,051, Jan. 26.

Mester, Heinz: *See*—
Kuntke, Alfred, and Mester.

Metalflo Corporation, assignee: *See*—
Watson, Romaine E., Boston, and Lehmeier.

Metals & Controls Corporation, assignee: *See*—
Moorehead, John O., Kurtz, and Glidden.

Meulemans, Benedict E., and W. A. Nelson, Green Bay, Wis., assignors to Swift & Company, Chicago, Ill. Method and apparatus for handling sliced food. 2,667,420, Jan. 26.

Meyer, Gustav, Wangen im Allgau, Wurttemberg, assignor to K. Maybach, Friedrichshafen am Bodensee, Germany. Claw clutch. 2,667,252, Jan. 26.

Mietzsch, Fritz: *See*—
Schmidt, Hans, Behnisch, and Mietzsch.

Milden, Wallace M.: *See*—
Grover, Anthony P., and Milden.

Milliard, Everett M., Glendale, A. L. Turner, San Fernando, H. M. Kurz, Burbank, and M. L. Dockery, Sun Valley, Calif., said Turner, said Kurz, and said Dockery assignors to said Milliard. Adjustable colander for cooking and serving vegetables and the like. 2,667,117, Jan. 26.

Miller, Herman, Furniture Company, assignee: *See*—
Eames, Charles.

Miller, Homer H., Bridgeport, Conn., assignor to General Electric Company. Three position hinge for cooking appliances. 2,666,946, Jan. 26.

Miller, William T., Ithaca, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Heat treatment of polytrifluorochloroethylene plastic. 2,667,474, Jan. 26.

Millhiser Bag Company, Inc., assignee: *See*—
Golden, Bertie C.

Miner, W. H., Inc., assignee: *See*—
Mulcahy, Harry W.

Minster Machine Company, The, assignee: *See*—
Wissman, Reuben E.

Misch, Charles E., New York, N. Y. Cylindrical container with slidable closure. 2,667,285, Jan. 26.

Mitchell, John L., assignee: *See*—
O'Connor, Hazel C.

Monks, Frank E., assignor to Fuller Label & Box Company, Pittsburgh, Pa. Band forming machine and process. 2,667,108, Jan. 26.

Monsanto Cnemical Company, assignee: *See*—
Dazzi, Joachim.
Emerson, William S., and Patrick.
Fincke, John K.
Longley, Raymond I., Jr.
McFee, Earl P.
Morner, Richard R.
Morner, Richard R., and Longley.
Mowry, David T., and Schlesinger.
Wildish, Myron F., Hefferline, and Rippey.

Moorehead, John O., and E. F. Kurtz, Attleboro, Mass., and R. M. Glidden, Haddonfield, N. J., assignors to Metals & Controls Corporation, Attleboro, Mass. Hermetically sealed thermostat. 2,667,553, Jan. 26.

Morheiser, Joseph H., Chicago, Ill. Artificial leg jack. 2,666,927, Jan. 26.

Morin, Louis H., Bronx, N. Y. Automatic lock slider. 2,666,969, Jan. 26.

Morner, Richard R., Dayton, Ohio, and R. I. Longley, Jr., Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Vinyl acetate-N-vinyl-pyrrolidone copolymers. 2,667,473, Jan. 26.

Morner, Richard R., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Styrene copolymers. 2,667,467, Jan. 26.

Morningstar, Ralph E., Columbus, Ohio, assignor to Mathieson Chemical Corporation. Producing insoluble sulfur. 2,667,406, Jan. 26.

Morris, Arthur K.: *See*—
Frye, Colin M., Killner, and Morris.

Morris, John: *See*—
Watson, Henry R., Morris, and Stalte.

Mortenson, Everett N., assignor to Swift & Company, Chicago, Ill. Glue bone tankage treatment. 2,667,500, Jan. 26.

Moser, Robert C.: *See*—
Purchas, William J., Jr., and Moser.

Mosley, Mabel V., Los Angeles, Calif. Clamping attachment for earrings. 2,666,973, Jan. 26.

Moss, Ralph L., assignee: *See*—
Nichols, Dan C.

Mostad, Eigil: *See*—
Aannerud, Sigurd A., and Mostad.

Motor Products Corporation, assignee: *See*—
Adnerson, Florence B.

Motorola, Inc., assignee: *See*—
Graziano, Victor.

Mowry, David T., and A. H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Derivatives of benzylidenecyanoacetic acid. 2,667,411, Jan. 26.

Mowry, David T., and A. H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Herbicidal composition. 2,667,412, Jan. 26.

Muckenfuss, Charles, Lakewood, Ohio. Pipe-cutting device. 2,666,983, Jan. 26.

Mueller, Ervin H., Grosse Pointe, Mich. Gas controlling valve. 2,667,325, Jan. 26.

Mulcahy, Harry W., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for railway draft riggings. 2,667,277, Jan. 26.

Müller, Fritz, Berlin-Marienfelde, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt and Erlangen, Germany. Reciprocating tappet device of variable tappet length. 2,667,079, Jan. 26.

Müller, Wilhelm, Leverkusen, and H. Kircher, Koln, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany. Production of a manganese dioxide for use as depolarizer in dry cells. 2,667,405, Jan. 26.

Munday, John C., Cranford, N. J., assignor to Standard Oil Development Company. Handling finely divided solids. 2,667,448, Jan. 26.

Murray, Guy E., Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Electroplating copper on metal articles. 2,667,453, Jan. 26.

Myers, Albert F., Berkley, assignor, by mesne assignments, to Patent Developers, Inc., Detroit, Mich. Transfer case differential mechanism. 2,667,087, Jan. 26.

Myers, Albert F., Berkley, assignor, by mesne assignments, to Patent Developers, Inc., Detroit, Mich. Transfer case differential mechanism. 2,667,088, Jan. 26.

Myers, Roy W., Uhrichsville, Ohio. Connected upper and lower dentures. 2,666,988, Jan. 26.

Nager, Urs F., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Recovery of neomycin. 2,667,441, Jan. 26.

Nager, Urs F., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Recovery of prodigiosin. 2,667,492, Jan. 26.

Nagy, Daniel E., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Water soluble phenol-formaldehyde-borax condensation product. 2,667,466, Jan. 26.

Napier, D., & Son Limited, assignee: *See*—
Emerson, Reginald S.

Napolin, Seymour: *See*—
Auerbacher, Werner F., and Napolin.

National Equipment Corporation, assignee: *See*—
Perkins, George S.

National Research Development Corporation, assignee: *See*—
Jefferson, Sidney.

National Steel Corporation, assignee: *See*—
Fenske, Harry D.
Shannon, Harold S.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Beis, Basil A.
Wolf, Alfred A.
Wood, Cyrus F., and Sadler.

Neal, Ethel, administratrix: *See*—
Gooding, Chester M., Vahlteich, and Neal.

Neal, Ralph H.: *See*—
Gooding, Chester M., Vahlteich, and Neal.

Nebesar, Robert J., Bristol, Tenn., assignor to Universal Moulded Products Corporation, Bristol, Va. Molding composition. 2,667,463, Jan. 26.

Nelson, Talbert G., New York, N. Y. Fruit juicer. 2,667,118, Jan. 26.

Nelson, Warren A.: *See*—
Meulemans, Benedict E., and Nelson.

Nepera Chemical Co., Inc., assignee: *See*—
Feinstone, Wolffe H.

Nesty, Glenn A.: *See*—
Olmer, Francois J. G., and Nesty.

Nettler, Stanley, Great Neck, N. Y. Display form for socks and stockings. 2,667,292, Jan. 26.

Neugebauer, Wilhelm, Wiesbaden-Biebrich, and J. Barthenheier, Eddersheim am Main, Germany, assignors, by mesne assignments, to Azoplate Corporation, Summit, N. J. Producing positive photolithographic printing foils. 2,667,415, Jan. 26.

Neumair, Joseph A.: *See*—
Clausen, Sigurd, and Neumair.

New Britain Machine Company, The, assignee: *See*—
Stephan, Hallis N.

New Jersey Machine Corporation, assignee: *See*—
Von Hofe, George W.

New Products Corporation, assignee: *See*—
Banker, Oscar H.

Nichols, Dan C., Houston, Tex., assignor of one-third to R. L. Moss and one-third to R. H. Russell, Johnson City, Tenn. Track bolt tightener. 2,667,100, Jan. 26.

Nielsen, Asger K., assignor to Telefon Fabrik Automatic A/S, Copenhagen, Denmark. Coin collecting device. 2,667,255, Jan. 26.

Nielsen, Svend P. L.: *See*—
Anskjaer, Emil R., Nielsen, and Svendsen.

Nilgen, Karl A.: *See*—
Aeckersberg, Gustav, and Nilgen.

Noel, Edward B., Cleveland Heights, and P. A. Dell, Highland Heights, Ohio, assignors to General Electric Company. Ribbon lead construction. 2,667,595, Jan. 26.

Nolte, Henry J., Schenectady, N. Y., assignor to General Electric Company. Metalizing a ceramic member. 2,667,427, Jan. 26.

Nolte, Henry J., Schenectady, N. Y., assignor to General Electric Company. Metalized ceramic. 2,667,432, Jan. 26.

North American Geophysical Co., assignee: *See*—
Cloud, Raymond T.

Northrop Aircraft, Inc., assignee: *See*—
Sockman, Loy W., and Brady.

Norton, Raymond J., assignee: *See*—
Christensen, Leo M.

Nu-Lift Bra, Inc., assignee: *See*—
Spangard, Laurence C.

O'Connor, Hazel C., Jersey City, N. J., assignor to J. L. Mitchell, New York, N. Y. Portable folding airstrip marker. 2,667,000, Jan. 26.

Odland, Alfred O., Waupun, Wis., assignor to Invention Development Corporation. Overshoe with gusset and tongue. 2,666,996, Jan. 26.

Ogorek, Stanley T.: *See*—
Mesl, Phillip J., and Ogorek.

Ohio Brass Company, The, assignee: *See*
Lewis, Warren J.

Ohio Thermometer Company, Inc., The, assignee: *See*—
Wappner, Ralph C.

Oilwell Drain Hole Drilling Co., assignee: *See*—
McCune, John S., and Hanks.

Olshei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Window cleaner. 2,666,941, Jan. 26.

Olmer, Francois J. G., and G. A. Nesty, Morristown, N. J., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Synthetic bristle and its production. 2,666,976, Jan. 26.

Ondo, Mrs. Jessie V., assignee: *See*—
Dandridge, Paul.

Onksen, George W., Jr.: *See*—
Mead, Howard C., and Onksen.

Ortloff, John E., Tulsa, Okla., assignor to Standard Oil Development Company. Full hole diamond bit. 2,667,334, Jan. 26.

Osbaldeston, Joseph: *See*—
Watson, William H., and Osbaldeston.

Ossian Engineering Co., Inc., assignee: *See*—
Foss, Burdette W., and Hunter.

Österman, Karl, Stockholm, and G. Arnberg, Lidingo, assignors to Svenska Aktiebolaget Gasaccumulator, Stockholm Sweden. Apparatus for welding radiators. 2,667,137, Jan. 26.

Oswald, Karl, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Beam-limiting diaphragm for X-ray tubes. 2,667,588, Jan. 26.

Otjen, Albert M., Madison, Nebr. Longitudinally adjustable draft device. 2,667,366, Jan. 26.

Owens-Illinois Glass Company, assignee: *See*—
Parks, Willis J.

Packer, Johnson L., Sevenoaks, and G. T. W. Grieve, Woolwich, London, assignors to British Insulated Callender's Cables Limited, London, England. Means for controlling the tension in running strip. 2,667,311, Jan. 26.

Page, Robert G., New Britain, Conn., assignor, by mesne assignments, to General Electric Company. Circuit breaker trip control device. 2,667,548, Jan. 26.

Pain, David L.: *See*—
Slack, Ronald, Libman, and Pain.

Pallein, Michael: *See*—
Wilkinson, Alvin H., and Pallein.

Palmer, Thomas O., Chicago, Ill. Dock plate. 2,666,936, Jan. 26.

Paltz, Walter J., Fanwood, and B. R. Tegge, Chatham, N. J., assignors to Standard Oil Development Company. Alkylation of aromatics. 2,667,519, Jan. 26.

Paluch, Milton M., and C. A. Teichert, Grand Rapids, assignors to General Motors Corporation, Detroit, Mich. Automatic gas inlet valve. 2,667,155, Jan. 26.

Parker, Clarence E., assignor to The Coe Manufacturing Company, Painesville, Ohio. Sheet handling apparatus. 2,667,259, Jan. 26.

Parker, Dean A., Richmond, Mich. Trailer drawbar. 2,667,282, Jan. 26.

Parker, Humphrey F.: *See*—
Robins, Erford E., and Parker.

Parks, Cary F., Birmingham, Ala. Pleasure smoking pipe. 2,667,175, Jan. 26.

Parks, Willis J., Richmond, Calif., assignor to Owens-Illinois Glass Company. Packaging commodities. 2,667,421, Jan. 26.

Parr, Bernard F., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Toaster apparatus. 2,667,116, Jan. 26.

Parsons, John B., Maumee, Ohio. Combined regulator system for selective operation of vehicle tops, windows, and other parts. 2,667,380, Jan. 26.

Partin, Melvin E.: *See*—
Creamer, Edgar M., Jr., and Partin.

Pasturczak, Harry S., East Moline, Ill. Locking collar for instrument mountings. 2,667,321, Jan. 26.

Patent Developers, Inc., assignee: *See*—
Myers, Albert F.

Patrick, Tracy M., Jr.: *See*—
Emerson, William S., and Patrick.

Perkins, George S., assignor to National Equipment Corporation, New York, N. Y. Tray dumping mechanism for confectionary machines. 2,667,281, Jan. 26.

Permacel Tape Corporation, assignee: *See*—
McElroy, John F.

Perry, Stephen F., Westfield, G. W. Engisch, Linden, and R. A. Marriner, Westfield, N. J., assignors to Standard Oil Development Company. Ketone dewaxing process. 2,667,447, Jan. 26.

Peterbilt Motors, assignee: *See*—
MacDonald, William W., and Pomfret.

Petering, Harold G., assignor to The Upjohn Company, Kalamazoo, Mich. 2,4-diaminopteridine aldehydes. 2,667,484, Jan. 26.

Petering, Harold G., assignor to The Upjohn Company, Kalamazoo, Mich. 2,4-diamino-6-(hydroxyalkyl)peteridines. 2,667,485, Jan. 26.

Peters & Russell, Inc., assignee: *See*—
Russell, Linus E.

Peterson, Alden W., Lorain, Ohio, assignor to United States Steel Corporation. Device for transferring ingot mold caps. 2,667,276, Jan. 26.

Peterson, Glen, Tulsa, Okla., assignor to Phillips Petroleum Company. Radio seismic system. 2,667,625, Jan. 26.

Petit, Daniel, assignor to Societe de Technique Industriele, Paris, France. Vibrating retort. 2,667,452, Jan. 26.

Petrich, Erwin, Augsburg-Goggingen, assignor of one-half to Kleindienst & Co., offene Handelsgesellschaft, Augsburg, Germany. Pressing bust. 2,667,291, Jan. 26.

Pfann, William G., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Reversible semiconductor and making it. 2,666,977, Jan. 26.

Philco Corporation, assignee: *See*—
Creamer, Edgar M., Jr., and Partin.

Phillips Petroleum Company, assignee: *See*—
Cines, Martin R.
Findlay, Robert A.
Harney, Ervin C.
Peterson, Glen.
Pierce, Weller R.
Piety, Raymond G.

Phipps, Herman, Montebello, Calif. Oil burner. 2,667,384, Jan. 26.

Pierce, Weller R., Dumas, Tex., assignor to Phillips Petroleum Company. Apparatus for reforming hydrocarbons. 2,667,410, Jan. 26.

Piety, Raymond G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Camera assembly for photographing cavity walls. 2,667,109, Jan. 26.

Pilot Radio Corporation, assignee: *See*—
Auerbacher, Werner F., and Napolin.

Pitcairn, Thomas: *See*—
Ashcroft, Donald G., and Pitcairn.

Pittsburgh Plate Glass Company, assignee: *See*—
West, George L.

Plastic Molded Arts, Inc., assignee: *See*—
Tommarchi, Paul, and Byer.

Platt Brothers and Company Limited, assignee: *See*—
Bassindale, Isaac B.

Pocknee, James K., assignor to Cabul Tool Company Limited, London, England. Hardness testing instrument. 2,667,067, Jan. 26.

Pohl, Ernest E.: *See*—
Broekhuysen, William C., Pohl, and Roehm.

Poitras, Edward J., Holliston, Mass. Lancet readying and storing device. 2,666,967, Jan. 26.

Polytechnic Institute of Brooklyn, assignee: *See*—
Weber, Ernest, Griemsmann, and Johnson.

Polytechnic Research and Development Company Incorporated, assignee: *See*—
Waller, William, and Johnson.

Pomeroy, Edith A., administratrix: *See*—
Clarvoe, George W., and Pomeroy.

Pomeroy, Lendal W.: *See*—
Clarvoe, George W., and Pomeroy.

Pomfret, John R.: *See*—
MacDonald, William W., and Pomfret.

Potter, Denton A., Santa Monica, Calif. Insulation stripping tool for electric conductors. 2,667,094, Jan. 26.

Potter, Ralph B., Boulder, Colo. Making toothbrushes. 2,666,954, Jan. 26.

Poupinel, Jean C.: *See*—
Delmousée, George, Austerweil, Lemoussu, and Poupinel.

Powder Power Tool Corporation, assignee: *See*—
Erickson, Virginius R.

Power Jets (Research and Development) Limited, assignee: *See*—
Alcock, John F.
Ashwood, Peter F.

Pratt, Edward H., Belleville, assignor to Ace Metal Products, Inc., New Baden, Ill. Awning. 2,666,964, Jan. 26.

Presley, Judd B., Clayton, and L. Forman, St. Louis, Mo. Mixing device having holder for beverage. 2,667,339, Jan. 26.

Presque Isle Laboratories and Manufacturing, Inc., assignee: *See*—
Bierly, Lester A.

Pressey, Donald E., Stillwater, and J. M. Conley, Orono, Maine. Automatic feed line cutoff and drain for oil burners. 2,667,215, Jan. 26.

Proctor Electric Company, assignee: *See*—
MacNamara, William.
Vogelsberg, Walter H.

Provenzano, Mike A., assignor to The Brearley Company, Rockford, Ill. Bathroom scale. 2,667,387, Jan. 26.

Pucher, Leo E., Euclid, assignor to Willard Storage Battery Company, Cleveland, Ohio. Deferred action battery. 2,667,527, Jan. 26.

Pullman Vacuum Cleaner Corporation, assignee: *See*—
Holte, Paul C.

Purcell, Edward M., Cambridge, Mass., assignor, by mesne assignments, to the United States of America. Slot type magnetron. 2,667,601, Jan. 26.

Purchas, William J., Jr., and R. C. Moser, Grand Rapids, assignors to General Motors Corporation, Detroit, Mich. Hydraulic lash adjuster. 2,667,149, Jan. 26.

Pyles, Harley G., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Conveyer system. 2,667,260, Jan. 26.

Pyror Limited, assignee: *See*—
Aannerud, Sigurd A., and Mostad.

Rabinow, Jacob, Washington, D. C. Magnetic fluid shock absorber. 2,667,237, Jan. 26.

Radio Corporation of America, assignee: *See*—
Atwood, John B.
Burns, Leslie L., Jr., and Roberts.
Burnside, Don G.
Diffenderfer, John B.
Linder, Ernest G.
Rajchman, Jan A.
Weingarten, Morris R.

Rae, Alexander J., West Ealing, London, assignor to Electric & Musical Industries Limited, Hayes, England. Automatic mechanism for phonograph record playing apparatus. 2,667,250, Jan. 26.

Raibourn, Paul, Southport, Conn. Light-sensitive color photographic film. 2,667,414, Jan. 26.

Raiche, Paul A., North Providence, R. I., assignor to Davol Rubber Company. Colostomy pouch. 2,667,167, Jan. 26.

Rajchman, Jan A., Princeton, N. J., assignor to Radio Corporation of America. Electronic switching device. 2,667,599, Jan. 26.

Rakit Corporation, Inc., assignee: *See*—
Ullberg, Frederick G. W., Jr., and Baird.

Ramey, Robert A., and W. Soller, Cincinnati, Ohio. Apparatus for force balance. 2,667,071, Jan. 26.

Ramos, Thomas, New York, A. W. Cizek, Jr., Valley Stream, and S. Weiss, New York, N. Y. Apparatus for testing calking and the like materials. 2,667,069, Jan. 26.

Raught, Arthur V., Birmingham, assignor to Dearborn Motors Coropration, Highland Park, Mich. Split seed wheel for planters. 2,667,286, Jan. 26.

Rauh, Everett G.: *See*—
Fred, Mark S., and Rauh.

Rauland Corporation, The, assignee: *See*—
Szegho, Constantin S., and Reed.

Raymond, Richard C., State College, Pa. Power divider circuit. 2,667,619, Jan. 26.

Raytheon Manufacturing Company, assignee: *See*—
Hergenrother, Rudolf C.
Riblet, Henry J.
Turner, Edwin E., Jr.

Rea, Wilton T.: *See*—
Mahoney, Joseph A., Rea, and Sutliff.

Read Standard Corporation, assignee: *See*—
Whitfield, Joseph E.

Reece Folding Machine Company, assignee: *See*—
Gilbert, Alfred G., and Rogers.

Reed, Robert D.: *See*—
Zink, John S., and Reed.

Reed, William O.: *See*—
Szegho, Constantin S., and Reed.

Reichl, Reymond M., Forest Hills, and R. Singer, assignors to Hydropress, Inc., New York, N. Y. Hydraulic machine. 2,667,136, Jan. 26.

Reilly Tar & Chemical Corporation, assignee: *See*—
Sutherland, Leslie H., and Cislak.

Reitz, Clifford L., Trenton, N. J., E. G. Lipski, Bristol, and J. F. Young, Erie, Pa., assignors to General Electric Company. Supporting frame for clothes-washing mechanism. 2,667,269, Jan. 26.

Research Corporation, assignee: *See*—
Busfield, Gordon.
Cain, Cornelius K.

Ressler, Frank J., and T. M. Shockey, Baltimore, Md. Bedspring holder. 2,666,932, Jan. 26.

Revell, Kervin D., Wauchula, Fla. Dowel pinning machine. 2,667,192, Jan. 26.

Rheem Manufacturing Company, assignee: *See*—
Johns, Stanley S.

Rhodes, Cecil: *See*—
Smith, Sidney R., and Rhodes.

Rhodes, John C., assignor to Rhodes Research Corporation, Jenkintown, Pa. Sterilizing apparatus for liquids. 2,667,584, Jan. 26.

Rhodes Research Corporation, assignee: *See*—
Rhodes, John C.

Riblet, Henry J., Wellesley Hills, assignor to Raytheon Manufacturing Company, Newton, Mass. Signal-coupling structure. 2,667,620, Jan. 26.

Rice, Joseph: *See*—
Wright, Esmond P. G., and Rice.

Rice, William L.: *See*—
Fishburne, Francis B., and Rice.

Richey, Clarence B., Royal Oak, assignor to Dearborn Motors Corporation, Birmingham, Mich. Stalk shredder hammer and spacer. 2,667,022, Jan. 26.

Rigaumont, Victor A., Pittsburgh, Pa. Parking system. 2,666,961, Jan. 26.

Rigby, Charles H., Saltcoats, Scotland, assignor to Imperial Chemical Industries Limited. Production of water-souble salts of certain cellulose derivatives of improved physical form. 2,667,482, Jan. 26.

Rimann, Walter, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Motor-driven pump. 2,667,127, Jan. 26.

Rippey, Hugh F.: *See*—
Wildish, Myron F., Hefferline, and Rippey.

Robbins, William P., Paterson, N. J., assignor to Curtiss-Wright Corporation. Acceleration stabilized synchronizer. 2,667,344, Jan. 26.

Roberts Manufacturing Co., assignee: *See*—
Codianne, Nicholas.

Roberts, Walter van B.: *See*—
Burns, Leslie L., Jr., and Roberts.

Robertshaw-Fulton Controls Company, assignee: *See*—
Caparone, Michael J.

Robins, Erford E., North Tonawanda, and H. F. Parker, Buffalo, assignors to Columbus McKinnon Chain Corporation, Tonawanda, N. Y. Electric hoist. 2,667,331, Jan. 26.

Robinson, Albert L., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor circuit element. 2,667,607, Jan. 26.

Robson, Briton S., Huyton, assignor to British Insulated Callender's Cables Limited, London, England. Gas-liquid contact apparatus. 2,667,340, Jan. 26.

Rochester Button Company, assignee: *See*—
Fick, Harold F.

Rock Hill Printing & Finishing Company, assignee: *See*—
Davis, Thomas E.

Rodzianko, Victor, Cranford, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Induction motor for family sewing machine drives. 2,667,611, Jan. 26.

Roehm, Frank J.: *See*—
Broekhuysen, William C., Pohl, and Roehm.

Rogers, William H., Jr.: *See*—
Gilbert, Alfred G., and Rogers.

Rola Company, Inc., The, assignee: *See*—
Russell, Earl L.

Roller, Paul S., Hyattsville, Md. Electrolytic methods and apparatus for production of metal hydroxides. 2,667,454, Jan. 26.

Rood, Robert M., Pittsfield, Mass., and O. A. Keser, Aldan, Pa., assignors to General Electric Company. Capacitor and terminal lead therefor. 2,667,606, Jan. 26.

Root, Edward M.: *See*—
Hyman, Howard D., and Root.

Roselund, Harold A., assignor to C. W. Harwin Inc., Dayton, Ohio. Atomizer. 2,667,382, Jan. 26.

Rosenthal, William, Bayville, N. Y. Brassière. 2,666,918, Jan. 26.

Ruane, George W., Cincinnati, Ohio. Collar holding device. 2,666,921, Jan. 26.

Russell, Earl L., assignor to The Rola Company, Inc., Cleveland, Ohio. Making loud-speakers. 2,666,980, Jan. 26.

Russell, Linus E., assignor to Peters & Russell, Inc., Springfield, Ohio. Horn ring. 2,667,083, Jan. 26.

Russell, R. H., assignee: *See*—
Nichols, Dan C.

Rutledge, Melvin C., assignor to Hunter Douglas Corporation, Riverside, Calif. Tape roll for Venetian blinds. 2,667,220, Jan. 26.

Ryder, William, Knoxville, Tenn. Exhaust auxiliary for internal-combustion engines. 2,667,031, Jan. 26.

Sabatka, Winston E.: *See*—
Cady, Stanley S., and Sabatka.

Sadler, Carl L., Jr.: *See*—
Wood, Cyrus F., and Sadler.

St. Clair, Charles W., assignor to The Coe Manufacturing Company, Painesville, Ohio. Flow control device. 2,667,186, Jan. 26.

St. Pierre, Eugene, Pawtucket, and J. Wawzonek, Cumberland, assignors to Hemphill Company, Pawtucket, R. I. Mechanism for double sole trimming. 2,667,053, Jan. 26.

Saman, Jules, assignee: *See*—
Lewis, Frederic M.

Sandberg, Oscar, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind. Article transfer machine. 2,667,258, Jan. 26.

Sandberg, Ray A., Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Making heat exchangers. 2,666,981, Jan. 26.

Sanson Hosiery Mills, Inc., assignee: *See*—
Sanson, Stanton D.

Sanson, Stanton D., Elkins Park, assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa. Detachable hosiery ornament. 2,667,004, Jan. 26.

Satinoff, David, Utica, N. Y., assignor to the United States of America as represented by the Secretary of the Air Force. Electron tube socket with replaceable by-pass capacitors. 2,667,573, Jan. 26.

Sauer, John C.: *See*—
Herrick, Elbert C., and Sauer.

Sauer, John C., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Vinyl esters of hydrocarbonsulfonic acids and polymers thereof. 2,667,469, Jan. 26.

Saunders, Frank S.: *See*—
Hailer, Albert H., and Saunders.

Schaeffer, Pierre H., Paris, France. Magnetophonic musical apparatus. 2,667,097, Jan. 26.

Schaffer, George W., St. Louis, Mo. Tool supporting means. 2,667,092, Jan. 26.

Scharff, J. H., Inc., assignee: *See*—
Walz, Rudolph.

Schaurte, Paul, Vaduz, Liechtenstein. Combined counting and gauging device. 2,667,631, Jan. 26.

Scheer, Hattie, Atlantic City, N. J. Antrum spray 2,667,166, Jan. 26.

Schenley Industries, Inc., assignee: *See*—
Andersag, Hans, Weese, and Bossert.
Schmidt, Hans, Behnisch, and Mietzsch.

Schick, Frederick A., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Bearing and seal assembly. 2,667,388, Jan. 26.

Schlachter, Fred W., Rockwell City, Iowa. Parachute quick release coupling. 2,667,376, Jan. 26.

Schlesinger, Albert, N. Weiner, and S. M. Gordon, New York, assignors to Endo Products, Inc., Richmond Hill, N. Y. Mercurial diuretic. 2,667,442, Jan. 26.

Schlesinger, Arthur H.: *See*—
Mowry, David T., and Schlesinger.

Schlosser, Russell K., Jr., Wesleyville, Pa., assignor to General Electric Company. Adjusting mechanism for railway brake riggings. 2,667,239, Jan. 26.

Schmidt, Hans, Wuppertal-Vohwinkel, R. Behnisch, and F. Mietzsch, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc, New York, N. Y., Aromatic thiosemicarbazones. 2,667,509, Jan. 26.

Schmitt, Otto H., Port Washington, and W. B. Greenlee, Garden City, N. Y. Plural motor control system for use with translation devices. 2,667,610, Jan. 26.

Schmitz, Carl, and H. Hemfort, assignors to Westfalia Separator AG., Oelde, Westphalia, Germany. Centrifuge connection. 2,667,302, Jan. 26.

Schneider, Harold N.: *See*—
Beatty, John W., and Schneider.

Schnepp, Louis W., San Bernardino, Calif. Flush ball guide. 2,666,929, Jan. 26.

Schoenwald, Alexander, assignor to P. Wall Mfg. Company, Grove City, Pa. Electric soldering iron. 2,667,561, Jan. 26.

Schrag, Gerhard: *See*—
Gebhardt, Erich, and Schrag.

Schramm, Ella, Brooklyn, N. Y. Safety razor blade honing device. 2,666,987, Jan. 26.

Schramm, Inc., assignee: *See*—
Gustafson, Alfred N.

Schroder, Hans, Brooklyn, N. Y. Combined haircutter and safety razor. 2,666,982, Jan. 26.

Schwartz, Anthony M., Washington, D. C., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Acid esters of fatty acylated N-alkylglucamines. 2,667,478, Jan. 26.

Scott, Joseph L.: *See*—
Lapinski, Walter F., and Scott.

Scovill Manufacturing Company, assignee: *See*—
Duell, Morgan V.

Seborg, Earnest Y., assignor to Barnes Drill Co., Rockford, Ill., Control mechanism for honing machines. 2,667,016, Jan. 26.

Senn, Oliver F., assignor, by mesne assignments, to Maumee Development Company, Toledo, Ohio. Preparing ortho sulfonyl chloride benzoic acid esters. 2,667,503, Jan. 26.

Sepersky, Joseph M., Brooklyn, N. Y. Airflight whirling device. 2,667,352, Jan. 26.

Servel, Inc., assignee: *See*—
Massier, John.

Servomechanisms, Inc., assignee: *See*—
Brady, James M.

Sesler, Hugh G., Warren, Ohio. Mast support. 2,667,318, Jan. 26.

Sewell, Donald N., Kennett Square, Pa. Wrecking tool. 2,666,985, Jan. 26.

Sexton Can Company Incorporated, assignee: *See*—
Sexton, Edward W.

Sexton, Edward W., Cambridge, assignor to Sexton Can Company Incorporated, Everett, Mass. Table with detachable box. 2,667,392, Jan. 26.

Shafer, Clarence W., assignor to Beaver Pipe Tools, Inc., Warren, Ohio. Pipe cutter with rotary cutter. 2,666,984, Jan. 26.

Shannon, Harold S., Detroit, Mich, assignor to National Steel Corporation. Prefabricated building structure. 2,667,241, Jan. 26.

Shaw, Harry, Whitworth, Rochdale, assignor to Bitumex Limited, Rochdale, England. Apparatus for manufacturing tubular articles by extrusion. 2,666,947, Jan. 26.

Shell Development Company, assignee: *See*—
Adelson, David E.
Jakob, Robert H., Tess, and Bradley.

Sheridan, Joseph J., San Mateo, Calif. Advertising display device. 2,667,001, Jan. 26.

Sherman, Charles A., assignor to Weyerhaeuser Timber Company, Tacoma, Wash. Machine for making plywood patches or pieces of predetermined shape. 2,667,193, Jan. 26.

Sherman, Harry H.: *See*—
Silverman, Myer A., and Sherman.

Sherman, William G., Seattle, Wash. Clutch with toggle lever operator. 2,667,253, Jan. 26.

Shink, George J., Detroit, assignor of one-half to W. H. Bogart, Mount Clemens, Mich. Storm sash construction. 2,667,245, Jan. 26.

Shockey, Thomas M.: *See*—
Ressler, Frank J., and Shockey.

Shores, Ronald B., Lansdowne, Pa., assignor to General Electric Company. Operating mechanism for electric circuit breakers. 2,667,554, Jan. 26.

Shunk, Clifford H.: *See*—
Hoffman, Dorothea H., Shunk, and Folkers.

Siderman, Joseph A., Shrewsbury, N. J., assignor to the United States of America as represented by the Secretary of the Army. Follow-up type of calibrating means. 2,667,608, Jan. 26.

Siebens, Norman H.: *See*—
Allen, Frank B., and Siebens.

Siegert, Milton E.: *See*—
McCarthy, Russell J., and Siegert.

Siemens-Schuckertwerke Aktiengesellshaft, assignee: *See*—
Müller, Fritz.

Signori, Bruno, Udine, Italy. Articulated shock fender. 2,667,374, Jan. 26.

Silge, Martin, Oakland, Calif. Illuminating means for microscopes. 2,667,103, Jan. 26.

Silverman, Myer A., and H. H. Sherman, assignors to P. Wall Mfg. Company, Grove City, Pa. Blowtorch. 2,667,214, Jan. 26.

Simmering-Graz-Pauker Aktiengesellschaft für Maschinen-, Kessel- und Waggonbau, assignee: *See*—
Ledinegg, Max.

Simpson, Henry A., Oviedo, Fla. Packaging, storing, and vending frozen concentrates and the like. 2,667,423, Jan. 26.

Sinclair Refining Company, assignee: *See*—
Kleinholz, Milton P.

Singer Manufacturing Company, The, assignee: *See*—
Rodzianko, Victor.

Singer, Robert: *See*—
Reichl, Reymond M., and Singer.

Singleton, Frank: *See*—
Hunter, William A., and Singleton.

Skillman, Claude T., assignor of fifty per cent to W. K. March, Santa Maria, Calif. Pneumatic power file. 2,666,978, Jan. 26.

Skoglund, Curt P., Linkoping, assignor to G. E. Maskinaffar, Jonkoping, Sweden. Lock for swinging doors. 2,667,058, Jan. 26.

Slack, Ronald, D. D. Libman, and D. L. Pain, assignors to May & Baker Limited, Dagenham, England. Bis-quaternary salts and their preparation. 2,667,493, Jan. 26.

Slayton, Ransom D., Elmhurst, assignor to Teletype Corporation, Chicago, Ill. Method and apparatus for photoelectric sensing of permutated tape. 2,667,535, Jan. 26.

Smith, Arthur E., Los Angeles, Calif. Unitary syringe. 2,667,163, Jan. 26.

Smith, Arthur E., Los Angeles, Calif. Syringe. 2,667,164, Jan. 26.

Smith, Arthur E., Los Angeles, Calif. Disposable syringe. 2,667,165, Jan. 26.

Smith, Harry F., Lexington, assignor to Mansfield Sanitary Pottery, Inc., Perrysville, Ohio. Flush tank valve with vacuum breaker. 2,667,177, Jan. 26.

Smith, Sidney R., and C. Rhodes, assignors to Automatic Telephone & Electric Company Limited, Liverpool, England. Electric ribbon cable. 2,667,543, Jan. 26.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Bearing construction. 2,667,389, Jan. 26.

Smith, William M.: *See*—
Lehane, Timothy J., and Smith.

Smith's, John E., Sons Company, assignee: *See*—
Vastola, Anthony.

Societe a Responsibilite Limitee so-called Lebocy Machines, assignee: *See*—
Lebocey, Bernard J. E.

Societe Anonyme Andre Citroen, assignee: *See*—
Du Rostu, Georges L.

Societe de la Viscose Suisse, assignee: *See*—
Karlen, Herman, and Colombu.

Societe de Technique Industriele, assignee: *See*—
Petit, Daniel.

Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A., assignee: *See*—
Huber, Robert.

Sockman, Loy W., Los Angeles, and E. W. Brady, Inglewood, assignors, by mesne assignments, to Northrop Aircraft, Inc., Hawthorne, Calif. Dye solution flaw inspection method. 2,667,070, Jan. 26.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Brown, Lyman R., and Whittet.
McLoad, Kenneth W.
Updegraff, David M., and Chase.

Sokolov, David A., Lynn, assignor to Columbia Broadcasting System, Inc., doing business under the name of Hytron Radio & Electronics Co., Salem, Mass. Electronic tube. 2,667,528, Jan. 26.

Soller, Walter: *See*—
Ramey, Robert A., and Soller.

Solomon, Nathan L., assignee: *See*—
Feyrer, William F.

Soule Steel Company, assignee: *See*—
Kullmer, Frank.

Sowa, Frank J., Cranford, N. J. Producing monoammino boron trifluoride. 2,667,403, Jan. 26.

Spangard, Laurence C., deceased, Hollywood, Calif., by L. Banister, executor, assignor to Nu-Lift Bra, Inc., Hollywood, Calif. Maternity and nursing brassière. 2,666,919, Jan. 26.

Speed-Flex, Inc., assignee: *See*—
Castner, George P.

Spiegel, Jacob: *See*—
Spiegel, William and J.

Spiegel, William and J., Philadelphia, Pa. Combined stretching and stapling device. 2,666,916, Jan. 26.

Sponge Products Corporation, assignee: *See*—
Greenleaf, Nathaniel B., and Webster.

Sprow, John M., North Miami, Fla. Jalousie window louver. 2,666,965, Jan. 26.

Staines, Messrs., Kitchen Equipment and Company Limited, assignee: *See*—
Bennetts, Arthur E.

Staite, Harold J.: *See*—
Watson, Henry R., Morris, and Staite.

Standard Oil Company, assignee: *See*—
Becker, Sam B.
Harban, Arthur A., and Johnson.
Towle, Philip H., and Hill.

Standard Oil Development Company, assignee: *See*—
Beach, Leland K., and Barnett.
Clarke, James S.
Fenske, Merrell R., and Long.
Fuqua, Mack C., and Hamner.
Guyer, Walter R. F., Thorn, and Arundale.
Lane, Stanley C., and Vickers.
Munday, John C.
Ortloff, John E.
Paltz, Walter J., and Tegge.
Perry, Stephen F., Engisch, and Marriner.

Stankewich, Edward M., South Ozone Park, N. Y. Molding machine. 2,666,949, Jan. 26.

Stanolind Oil and Gas Company, assignee: *See*—
Farris, Riley F.
Howard, George C.
McChrystal, Richard G.
Steitz, Alfred, Jr., and Jacoby.

Staschover, Leo, Jamaica, assignor to International Standard Electric Corporation, New York, N. Y. Frequency discriminator circuit. 2,667,576, Jan. 26.

Stehlin, Theodore A., Pasadena, Calif. Door closing mechanism. 2,666,944, Jan. 26.

Steitz, Alfred, Jr., and R. H. Jacoby, assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Purifying synthetic water-soluble carboxylic acids. 2,667,502, Jan. 26.

Stephan, Hallis N., Cleveland Heights, Ohio, assignor to The New Britain Machine Company, New Britain, Conn. Combined horizontal boring, drilling, and milling machine. 2,667,105, Jan. 26.

Stevens, Frederic B., Incorporated, assignee: *See*—
Kirkpatrick, Arthur H.

Stevens, J. P., & Co., Inc., assignee: *See*—
Winslow, Albert E., and Bradshaw.

Stevenson, James R.: *See*—
Brock, Harold L., and Stevenson.

Strandberg, Charles F., Greensboro, N. C. Renovating or resharpening recording styli. 2,667,434, Jan. 26.

Stratton, Charles H., East Greenbush, N. Y., and W. W. Williams, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Metallized dyes for cotton. 2,667,476, Jan. 26.

Strike, George N., Los Angeles, Calif. Moisture-extracting press. 2,667,056, Jan. 26.

Strobel, Rudolph W., Lenox, Mass., assignor to General Electric Company. Mounting clamp. 2,666,972, Jan. 26.

Stromberg-Carlson Company, assignee: *See*—
Kessler, Frank, and Frankel.

Stuart, Clarence C., assignor to Traffic Transport Engineering, Inc., Dearborn, Mich. Motorcar carrier, five-car capacity. 2,667,377, Jan. 26.

Stumbock, Max J., South Orange, N. J. Making nickel-cadmium batteries. 2,667,526, Jan. 26.

Sulzer Freres, Societe Anonyme, assignee: *See*—
Rimann, Walter.

Sun Oil Company, assignee: *See*—
Sweely, James S.

Sunroc Refrigeration Company, assignee: *See*—
Wehrwein, John G.

Sutherland, Leslie H., Springdale, Conn., and F. E. Cislak, assignors to Reilly Tar & Chemical Corporation, Indianapolis, Ind. Pyridylethyl ethers and making them. 2,667,491, Jan. 26.

Sutliff, Carleton B.: *See*—
Mahoney, Joseph A., Rea, and Sutliff.

Svendsen, Svend E. B.: *See*—
Anskjaer, Emil R., Nielsen, and Svendsen.

Svenska Aktiebolaget Gasaccumulator, assignee: *See*—
Osterman, Karl, and Arnberg.

Sweely, James S., Swarthmore, assignor to Sun Oil Company, Philadelphia, Pa. Polymerization of butadiene-1,3 compounds. 2,667,471, Jan. 26.

Swentzel, John P., assignor to The Carborundum Company, Niagara Falls, N. Y. Heat transfer checker work and unit shapes therefor. 2,667,343, Jan. 26.

Swift & Company, assignee: *See*—
Meulemans, Benedict E., and Nelson.
Mortenson, Everett N.
Zoubek, Charles M.

Swimmer, Albert T., assignor to The General Fireproofing Company, Youngstown, Ohio. Extension leaf for furniture. 2,667,399, Jan. 26.

Szegho, Constantin S., and W. O. Reed, Chicago, Ill., assignors to The Rauland Corporation. Storage electrode for signal-converting devices. 2,667,596, Jan. 26.

T. M. M. (Research) Limited, assignee: *See*—
Hunter, William A.
Hunter, William A., and Singleton.
Watson, William H., and Osbaldeston.

Talbert, Austin G., assignor to Talbert Construction Equipment Company, Lyons, Ill. Coupling for tractor and semitrailer units. 2,667,363, Jan. 26.

Talbert Construction Equipment Company, assignee: *See*—
Talbert, Austin G.

Tasker, Clinton W., Upland, Pa., assignor to American Viscose Corporation, Wilmington, Del. Making water-soluble hydroxyalkyl cellulose ethers. 2,667,481, Jan. 26.

Tecalemit Limited, assignee: *See*—
Le Clair, Camille C. S.

Tegge, Bruce R.: *See*—
Paltz, Walter J., and Tegge.

Teichert, Conrad A.: *See*—
Paluch, Milton M., and Teichert.

Telefon Fabrik Automatic A/S, assignee: *See*—
Nielsen, Asger K.

Teletype Corporation, assignee: *See*—
Madsen, Berthel F.
Slayton, Ransom D.
Zenner, Walter J.

Terry, Rex A.: *See*—
Duff, Robert H., and Terry.

Terry, Rex A., Berkley, and G. C. Kuehn, Huntington Woods, assignors to Chrysler Corporation, Highland Park, Mich. Closure operator. 2,667,221, Jan. 26.

Tesch, Erik T. A., Stockholm, and I. E. Johansson, Alvsjo, Sweden. Apparatus for charging shaft furnaces. 2,667,278. Jan. 26.

Tess, Roy W. H.: *See*—
Jakob, Robert H., Tess, and Bradley.

Texas Company, The, assignee: *See*—
Herzog, Gerhard.

Thelemarck, Thor: *See*—
Dreyfus, Ludwig, Thelemarck, Beckius, and Lindström.

Thomas, Edward M., College Park, and A. J. Barry, University Park, Md. Suspension roof support. 2,667,037, Jan. 26.

Thomas, Glenn M.: *See*—
Erson, Erik G., and Thomas.

Thomas, James R., Deerfield, assignor to J. A. Weber, Mount Prospect, Ill. Hand stamping stencil holder. 2,667,119, Jan. 26.

Thompson, Joseph A.: *See*—
Hobbs, Howard F., and Thompson.

Thompson, Raymond L.: *See*—
Grove, Leo C., and Thompson.

Thorn, John P.: *See*—
Guyer, Walter R. F., Thorn, and Arundale.

Thorne, Harold, London, England. Lock for doors and the like. 2,667,057, Jan. 26.

Timken Roller Bearing Company, The, assignee: *See*—
Holsing, Robert H.

Tommarchi, Paul, and W. C. Byer, Douglaston, assignors to Plastic Molded Arts, Inc., Long Island City, N. Y. Miniature doll eye-set. 2,667,013, Jan. 26.

Torkelson, Torkel E.: *See*—
Wallach, Robert S., and Torkelson.

Torricelli Creations, Inc., assignee: *See*—
Torricelli, Ugo.

Torricelli Creations, Incorporated, assignee: *See*—
Torricelli, Ugo.

Torricelli, Ugo, assignor to Torricelli Creations, Inc., New York, N. Y. Flexible protective shield. 2,666,922, Jan. 26.

Torricelli, Ugo, assignor to Torricelli Creations, Incorporated, New York, N. Y. Pleated protective shield. 2,666,924, Jan. 26.

Totebrush, Inc., assignee: *See*—
Mesi, Phillip J., and Ogorek.

Towle, Philip H., Hammond, Ind., and P. Hill, Lansing, assignors to Standard Oil Company, Chicago, Ill. Preparation of carboxylic acids from allylic compounds. 2,667,508, Jan. 26.

Traffic Transport Engineering, Inc., assignee: *See*—
Stuart, Clarence C.

Traugott, Paul, Greenwich, Conn., assignor to Electro-Physical Laboratories, Inc., Rye, N. Y. Marking device. 2,667,402, Jan. 26.

Trebules, Victor W., assignor to The Gabriel Company, Cleveland, Ohio. Antenna mast support. 2,667,317, Jan. 26.

Trevitt, John H., assignor to Dictaphone Corporation, Bridgeport, Conn. Multiple speed motor drive system. 2,667,613, Jan. 26.

Trico Products Corporation, assignee: *See*—
Oishei, John R.

Tripodi, Anthony J., Niles, Ohio, assignor to The Lodestar Corporation. Mechanism for actuating dump bodies. 2,667,381, Jan. 26.

Tripp, Burrell H., Scarsdale, N. Y. Door closure for swing hangars. 2,666,962, Jan. 26.

Tri-State Engineering Company, assignee: *See*—
Coit, Burton C., Jr.

Troche, Herman J., Fairview Park, and J. H. Holan, Rocky River, assignors to J. H. Holan Corporation, Cleveland, Ohio. Aerial ladder. 2,667,296, Jan. 26.

Trunnell, Harold K., Eugene, Oreg. Lead-in wire anchoring fixture. 2,667,530, Jan. 26.

Turner, Allan L.: *See*—
Millard, Everett M., Turner, Kurz, and Dockery.

Turner, Edwin E., Jr., West Roxbury, Mass., assignor to Raytheon Manufacturing Company. Radio receiver system. 2,667,574, Jan. 26.

Tursky, Charles M., Neshanic, N. J. Fluid filter. 2,667,271, Jan. 26.

Tursky, Charles M., Englewood, N. J. Self-cleaning fluid filter. 2,667,272, Jan. 26.

Uhlig, Henry C., Clifton, assignor to Howe Twister Corporation, Jersey City, N. J. Tensioning device for elongated flexible material. 2,667,029, Jan. 26.

Ullberg, Frederick G. W., Jr., and E. W. Baird, Jr., assignors to Rakit Corporation, Inc., Philadelphia, Pa. Support. 2,667,322, Jan. 26.

Ulrey, Ray C.: *See*—
Guernsey, Robert W., and Ulrey.

Union Oil Company of California, assignee: *See*—
McKinnis, Art C.

United Aircraft Corporation, assignee: *See*—
Allen, Arthur N., Jr.
Coar, Richard J.
Wells, Chester R.

United-Carr Fastener Corporation, assignee: *See*—
Becker, Philip D.
Bedford, William A., Jr.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Backus, John G.
Buck, Willard E.
Fred, Mark S., and Rauh.
Miller, William T.

United States Rubber Company, assignee: *See*—
Brown, Robert W.
Grove, Leo C., and Thompson.
Ladd, Elbert C., and Harvey.
Wells, James R.

United States Steel Corporation, assignee: *See*—
Peterson, Alden W.

Universal Moulded Products Corporation, assignee: *See*—
Nebesar, Robert J.

Universal Oil Products Company, assignee: *See*—
Haensel, Vladimir.

Unkel, Federico: *See*—
Giorgi, Rodolfo B., Klein, Unkel, and A. J. Giorgi.

Unterman, Helen, assignee: *See*—
Jacob, Dorothy.

Updegraff, David M., and H. H. Chase, Dallas, Tex., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Petroleum Prospecting method. 2,667,444, Jan. 26.

Upjohn Company, The, assignee: *See*—
Petering, Harold G.

Ushanoff, Vaselei V., Los Angeles, Calif. Toothbrush holder. 2,667,395, Jan. 26.

Vahlteich, Hans W.: *See*—
Gooding, Chester M., Vahlteich, and Neal.

Van Dusen Engineering Company, assignee: *See*—
Van Dusen, Laurence W.

Van Dusen, Laurence W., assignor to Van Dusen Engineering Company, San Diego, Calif. Attaching members by vacuum pressure. 2,666,979, Jan. 26.

Van Sickle, Roswell C., Wilkinsburg, Pa., and J. M. Cumming, deceased, late of Monroeville, Pa., by H. J. Cumming, executrix, Monroeville, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,667,556, Jan. 26.

Vapor Heating Corporation, assignee: *See*—
Lehane, Timothy J., and Smith.

Vastola, Anthony, assignor to John E. Smith's Sons Company, Buffalo, N. Y. Smoke generator. 2,667,157, Jan. 26.

Vedder, Walter O., Hagerstown, Md. Shaker mechanism for dust collector filter bags. 2,667,233, Jan. 26.

Versen, Kurt, Tenafly, N. J. Plug-in lighting unit for dual power supply systems. 2,667,571, Jan. 26.

Vickers, Herbert H.: *See*—
Lane, Stanley C., and Vickers.

Viehe, Frederick W., Los Angeles, and C. B. Harris, Glendale, Calif. System for measuring the prestress of concrete tanks. 2,667,068, Jan. 26.

Visilite Corporation, assignee: *See*—
Holme-Shaw, Norman M.

Visos, Charles D.: *See*—
Huck, Alfred J., and Visos.

Vogelsberg, Walter H., Wayne, assignor to Proctor Electric Company, Philadelphia, Pa. Toaster. 2,667,115, Jan. 26.

von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Machine for applying transfers. 2,667,003, Jan. 26.

Wade Engineering Limited, assignee: *See*—
Densham, Costin L.

Wagter, Hendrik, Broek in Waterland, assignor to Gebr. Stork & Co.'s Apparatenfabriek N. V., Amsterdam, Netherlands. Decorticating device. 2,666,955, Jan. 26.

Wall, P., Mfg. Company, assignee: *See*—
Schoenwald, Alexander.
Silverman, Myer A., and Sherman.

Wallach, Robert S., Bernardsville, N. J., and T. E. Torkelson, Baldwin, assignors to Associated Development and Research Corporation, New York, N. Y. Calculating machine. 2,667,304, Jan. 26.

Waller, William E., Brooklyn, and S. A. Johnson, New York, assignors to Polytechnic Research and Development Company, Incorporated, Brooklyn, N. Y. Bolometer for coaxial transmission lines. 2,667,618, Jan. 26.

Wallower, William B., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermostatic control for coffee makers. 2,667,565, Jan. 26.

Walz, Rudolph, Fayson Lakes, assignor to J. H. Scharff, Inc., Orange, N. J. Spot detector. 2,667,552, Jan. 26.

Wappner, Ralph C., assignor to The Ohio Thermometer Company, Inc., Springfield, Ohio. Thermometer. 2,667,073, Jan. 26.

War, United States of America as represented by the Secretary of, assignee: *See*—
Guenther, Edgar G., and Burton.
Purcell, Edward M.

Ward, J. Frank: *See*—
Davis, Calvin V., Harza, and Ward.

Warren, James W.: *See*—
Broekhuysen, William C., and Warren.

Wassmer, Judy L., New York, N. Y. Dispensing applicator for artificial eyelashes and the like. 2,667,176, Jan. 26.

Watson, Henry R., J. Morris, and H. J. Staite, Coventry, assignors to Sir W. G. Armstrong Whitworth Aircraft Limited, Baginton, England. Balancing of aircraft control columns. 2,667,315, Jan. 26.

Watson, Romaine E., Los Angeles, J. R. Boston, West Los Angeles, and C. Lehmeier, Santa Monica, Calif., assignors to Metalflo Corporation. Piston or like cup-shaped article. 2,667,390, Jan. 26.

Watson, William H., and J. Osbaldeston, assignors to T. M. M. (Research) Limited, Helmshore, England. Silver coil apparatus. 2,666,959, Jan. 26.

Wawzonek, Joseph: *See*—
St. Pierre, Eugene, and Wawzonek.

Weber, Ernst, Mount Vernon, J. W. E. Griemsmann, Bellaire, and S. A. Johnson, New York, assignors to Polytechnic Institute of Brooklyn, Brooklyn, N. Y. Coaxial cable attenuator matching device. 2,667,622, Jan. 26.

Weber, Joseph A., assignee: *See*—
Thomas, James R.

Webster, Leonard C.: *See*—
Greenleaf, Nathaniel B., and Webster.

Webster, Raymond C., assignor to W. E. Anderson, Inc., Kansas City, Mo. Flow measuring instrument. 2,667,072, Jan. 26.

Weese, Hellmut: *See*—
Andersag, Hans, Weese, and Bossert.

Wehrwein, John G., Glen Riddle, Pa., assignor to Sunroc Refrigeration Company. Water cooler thermostatic control. 2,667,039, Jan. 26.

Weiner, Eugene V.: *See*—
Blum, Alvin S., and Weiner.

Weiner, Nathan: *See*—
Schlesinger, Albert, Weiner, and Gordon.

Weingarten, Morris R., Lancaster, Pa., assignor to Radio Corporation of America. Heating unit for cementing bases to electron tubes. 2,667,205, Jan. 26.

Weis, Gilbert C., Renton, Wash. Shock pad for gun butts. 2,667,005, Jan. 26.

Welshaar, Emrich A., Ashton, Ill. Wagon loading attachment for combines. 2,667,028, Jan. 26.

Weiss, Sidney: *See*—
Ramos, Thomas, Cizek, and Weiss.

Wells, Chester R., Rocky Hill, assignor to United Aircraft Corporation, East Hartford, Conn. Arrangement of opposed superchargers. 2,667,298, Jan. 26.

Wells, James R., Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y. Synthetic resin impregnated glass fabric and making same. 2,667,430, Jan. 26.

Welsh, Matilda D., Ladue, Mo. Baby walker. 2,667,206, Jan. 26.

Wendling, Le Roy J.: *See*—
Fischer, Harry G., and Wendling.

West, George L., Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Glass door. 2,667,244, Jan. 26.

Western Electric Company, Incorporated, assignee: *See*—
Herzog, Carl.
Murray, Guy E.
Pyles, Harley G.

Westfalia Separator A. G., assignee: *See*—
Hemfort, Heinrich.
Schmitz, Carl, and Hemfort.

Westinger, Karl, E. Altenburger, and O. Hirt, Oberndorf, Neckar, Germany. Transfer mechanism for calculating machines. 2,667,307, Jan. 26.

Westinghouse Air Brake Company, assignee: *See*—
Bent, Arthur J.
Erson, Erik G., and Thomas.
May, Harry C.

Westinghouse Electric Corporation, assignee: *See*—
Amatel, Harold.
Fahnoe, Harold H., and Gaskill.
Hardigg, George W.
Jaycox, Gordon H.
Marden, John W., and Cuthbert.
Parr, Bernard F.
Van Sickle, Roswell C., and Cumming.
Wallower, William B.

Weyerhaeuser Timber Company, assignee: *See*—
Sherman, Charles A.

Whalen, John N., Whitinsville, assignor to F. A. Bronzo, Arlington, Mass. Combined chair and table. 2,667,208, Jan. 26.

Wheeler, Henry H., Bellerose, N. Y., assignor to International Cigar Machinery Company. Follow-up pressure fluid servomotor. 2,667,146, Jan. 26.

Wheeler, Henry H., Bellerose, N. Y., assignor to International Cigar Machinery Company. Cigar machine. 2,667,173, Jan. 26.

Wheeler, John W.: *See*—
Winter, Robert C., and Wheeler.

White, Allen A., Peabody, Kans. Automobile jack. 2,667,328, Jan. 26.

Whitehill, Stanley M., and F. A. Groth, Chicago, Ill. Haemocytometer pipette. 2,667,074, Jan. 26.

Whitfield, Joseph E., Erie, Pa., assignor to Read Standard Corporation. Drive connection. 2,667,048, Jan. 26.

Whitley, Henry H., Beaumont, Tex. Garbage can cart. 2,667,320, Jan. 26.

Whittet, Kenneth J.: *See*—
Brown, Lyman R., and Whittet.

Wiegand, Edwin L., Company, assignee: *See*—
Cunningham, Harry C.
McOrilly, Joseph.

Wildish, Myron F., Terre Haute, Ind., J. E. Hefferline, Issaquah, and H. F. Rippey, Auburn, Wash., said Wildish assignor to Monsanto Chemical Company, St. Louis, Mo. Adhesive from monoethylenically unsaturated dicarboxylic acid salt polymer. 2,667,462, Jan. 26.

Wilkinson, Alvin H., and M. Pallein, assignors to Franks Mfg. Corporation, Tulsa, Okla. Braking apparatus. 2,667,240, Jan. 26.
Willard Storage Battery Company, assignee: *See*— Pucher, Leo E.
Williams, William W.: *See*— Stratton, Charles H., and Williams.
Wilson, Harry W.: *See*— Wilson, Jack C. and H. W.
Wilson, Jack C., Garden City, and H. W. Wilson, Hempstead, N. Y. Electric shocking device. 2,667,350, Jan. 26.
Wilson, Robert H.: *See*— Adams, Dennis A. W., and Wilson.
Winn, Oliver H., Baldwinsville, N. Y., assignor to General Electric Company. Automatic frequency control circuits for superheterodyne microwave receivers. 2,667,636, Jan. 26.
Winslow, Albert E., and J. A. Bradshaw, Greenville, S. C., assignors to J. P. Stevens & Co., Inc. Twist control means for yarn winding machines. 2,667,030, Jan. 26.
Winter, Robert C., Buffalo, and J. W. Wheeler, Grand Island, assignors to Bell Aircraft Corporation. Wheatfield, N. Y. Retractable aircraft undercarriage. 2,667,316, Jan. 26.
Wissman, Reuben E., assignor to The Minster Machine Company, Minster, Ohio. Friction clutch and brake on geared type presses. 2,667,248, Jan. 26.
Wolf, Alfred A., Dallastown, Pa., assignor to the United States of America as represented by the Secretary of Navy. Motion generator for testing servo mechanisms. 2,667,609, Jan. 26.
Wood, Cyrus F., Swarthmore, Pa., and C. L. Sadler, Jr., Rockford, Ill., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Aircraft fuel and propeller pitch control. 2,667,228, Jan. 26.
Wood, Edwin E., Malden, and W. A. Hafferty, Charlestown, Mass. Face mask. 2,667,161, Jan. 26.
Woodward, Leslie R., Vibrog, and B. Christensen, Hurley, S. Dak. Corn planter packer wheel scraper. 2,667,362, Jan. 26.
Woolley, Bruce D., Johnstown, Ohio. Power steering mechanism for automotive vehicles. 2,667,232, Jan. 26.
Wotring, Gaylord H., Fairfield, Conn., assignor to General Electric Company. Appliance of the drawer type. 2,667,400, Jan. 26.
Wright, Esmond P. G., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric connecting device. 2,667,542, Jan. 26.
Wright, Esmond P. G., and J. Rice, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Automatic telephone ticketing system. 2,667,538, Jan. 26.
Wright, Richard H., Bratenahl, assignor to The Guarantee Specialty Manufacturing Company, Cleveland, Ohio. Venetian blind head enclosure. 2,667,219, Jan. 26.
Wrightson, John M., North Bergen, and A. L. Dittman, assignors to The M. W. Kellogg Company, Jersey City, N. J. Manufacture of trifluorochloroethylene. 2,667,518, Jan. 26.
Wyatt, De Witt H., Columbus, Ohio. Coal burning magazine space heater. 2,667,158, Jan. 26.
Wyeth, Nathaniel, Dearborn, assignor to Chrysler Corporation, Highland Park, Mich. Suspension. 2,667,346, Jan. 26.
Young, Clarence F., Great Barrington, Mass. Chemical process for retaining cutting edges. 2,667,456, Jan. 26.
Young, Cyril C., Kansas City, Mo. Combination gas-oil burner apparatus. 2,667,213, Jan. 26.
Young, James F.: *See*— Reitz, Clifford L., Lipski, and Young.
Young, Thomas K., Toledo, and J. W. McAuley, Perrysburg, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Producing transparent electrically conducting films. 2,667,428, Jan. 26.
Youtcheff, John S., Santa Monica, Calif. Camera and filter support for stereoscopic photography. 2,667,110, Jan. 26.
Zaffina, Dominic A., assignor to said D. A. Zaffina and J. F. Zaffina, Pontiac, Mich., Jointly. Lever actuated tire bead loosening device. 2,667,212, Jan. 26.
Zaffina, Josephine F., assignee: *See*— Zaffina, Dominic A.
Zeegers, Rudolph N. G., Geleen, assignor to De Directie van de Staatsmijnen in Limburg, Heerlen, Netherlands. Purification of lactams. 2,667,483, Jan. 26.
Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Automatic message switching system. 2,667,533, Jan. 26.
Zink, John S., and R. D. Reed, Tulsa, Okla., said Reed assignor to said Zink. Radiant gas burner assembly. 2,667,216, Jan. 26.
Zinzallan, George: *See*— Barsky, George, and Zinzallan.
Zoubek, Charles M., Oak Lawn, assignor to Swift & Company, Chicago, Ill. Sealing polyethylene films. 2,667,437, Jan. 26.
Zwahlen, Henry, Paris, France. Device permitting the ambulatory ionization of blood circulatory troubles of the lower limbs. 2,667,162, Jan. 26.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 26TH DAY OF JANUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Barking logs. R. D. Pauley and L. A. McCanna. Re. 23,775, Jan. 26.
Chamber for pebble heaters, Pebble heating. S. P. Robinson. Re. 23,777, Jan. 26.
Panel closure. J. H. and F. G. Oswald. Re. 23,776, Jan. 26.

LIST OF PLANT INVENTIONS

Peach tree. F. W. Anderson. 1,247, Jan. 26.

LIST OF DESIGN INVENTIONS

Bed, Sofa. M. Rothstein. 171,368, Jan. 26.
Bracelet or the like. A. Katz. 171,353, Jan. 26.
Bracelet or the like. A. Katz. 171,355, Jan. 26.
Brooch or the like. A. Katz. 171,333, Jan. 26.
Brooch or the like. A. Katz. 171,336, Jan. 26.
Brooch or the like. A. Katz. 171,338–41, Jan. 26.
Brooch or the like. A. Katz. 171,344, Jan. 26.
Brooch or the like. A. Katz. 171,346, Jan. 26.
Brooch or the like. A. Katz. 171,352, Jan. 26.
Cabinet and towel rack, Combined. C. H. Greenlee. 171,330, Jan. 26.
Cabinet, Spice. C. H. Greenlee. 171,329, Jan. 26.
Chain for a bracelet or the like, Link. A. Katz. 171,356, Jan. 26.
Chair or similar article, Barber. G. E. Parker. 171,364, Jan. 26.
Container, Edible. H. W. Corley. 171,323, Jan. 26.
Container or the like, Display. L. Podus. 171,365, Jan. 26.
Cover, Fry pan. H. G. Fornoff. 171,326, Jan. 26.
Deflector for automobiles, Bug and air. F. Berry. 171,320, Jan. 26.
Dress. M. Verrand. 171,369, Jan. 26.
Earring or the like. A. Katz. 171,334–5, Jan. 26.
Earring or the like. A. Katz. 171,337, Jan. 26.
Earring or the like. A. Katz. 171,342–3, Jan. 26.
Earring or the like. A. Katz. 171,345, Jan. 26.
Earring or the like. A. Katz. 171,347–51, Jan. 26.
Fence. B. Yellin. 171,325, Jan. 26.
Jack-o'-lantern, Artificial. A. J. Nelson. 171,363, Jan. 26.
Kite. R. D. Gould. 171,327, Jan. 26.
Lazy Susan chafing dish vehicle. H. J. Wier, Sr. 171,370, Jan. 26.
Necklace and clip, Combined. M. Boucher. 171,321, Jan. 26.
Necklace or the like. A. Katz. 171,354, Jan. 26.
Necklace or the like. A. Katz. 171,357–8, Jan. 26.
Overshoe. C. H. Haines and D. G. Hoyt, Jr. 171,331, Jan. 26.
Pendant or similar article. J. S. Lunn. 171,360, Jan. 26.
Pouch for attachment to a belt or button. D. W. Keyston. 171,359, Jan. 26.
Puppet. J. E. Conway. 171,322, Jan. 26.
Rack for spice containers. C. H. Greenlee. 171,328, Jan. 26.
Ring, Finger. G. Bennett. 171,319, Jan. 26.
Sprinkler head. E. N. Reynolds. 171,366, Jan. 26.
Stacking device and stand, Combined. G. R. Munsie. 171,362, Jan. 26.
Stand, Calendar. C. E. Jones. 171,332, Jan. 26.
Stocking. J. Miran. 171,361, Jan. 26.
Toy stage for puppets. H. H. Rollins. 171,367, Jan. 26.
Tray, Serving. C. T. De Puy. 171,324, Jan. 26.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 26TH DAY OF JANUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acceleration stabilized synchronizer. W. P. Robbins. 2,667,344, Jan. 26.
Acetylene separation process. R. L. Hasche. 2,667,234, Jan. 26.
Acid esters of fatty acylated N-alkylglucamines. A. M. Schwartz. 2,667,478, Jan. 26.
Activated carbon, Manufacture of. J. W. Donegan. 2,667,460, Jan. 26.
Adhesive from monoethylenically unsaturated dicarboxylic acid salt polymer. M. F. Wildish, J. E. Hefferline, and H. F. Rippey. 2,667,462, Jan. 26.
Adjusting mechanism for railway brake riggings. R. K. Schlosser, Jr. 2,667,239, Jan. 26.
Aircraft fuel and propeller pitch control. C. F. Wood and C. L. Sadler, Jr. 2,667,228, Jan. 26.
Aircraft undercarriage, Retractable. R. C. Winter and J. W. Wheeler. 2,667,316, Jan. 26.
Airtight whirling device. J. M. Sepersky. 2,667,352, Jan. 26.
Air navigational device for computing corrections for track errors. A. E. Jones and N. C. Hayes. 2,667,305, Jan. 26.
Airstrip marker, Portable folding. H. C. O'Connor. 2,667,000, Jan. 26.
Air turbine power plant having rotary regenerator to transfer heat from an afterburner to the motive fluid. J. F. Alcock. 2,667,034, Jan. 26.
Alarm system, Automatic fire. A. L. Jorgensen. 2,667,630, Jan. 26.
Alkenylation of thiophenes. S. B. Becker. 2,667,495, Jan. 26.
Alkenylation of thiophenes. A. A. Harban and C. E. Johnson. 2,667,496, Jan. 26.
Alkyl esters of polyhalogenoalkenyl malonic acids. E. C. Ladd and M. P. Harvey. 2,667,505, Jan. 26.
Alkyl mercaptans, Preparation of. L. K. Beach and A. E. Barnett. 2,667,515, Jan. 26.
Alkylation of aromatics. W. J. Paltz and B. R. Tegge. 2,667,519, Jan. 26.
Alkyl-substituted acylamides, Producing. C. Downing. 2,667,511, Jan. 26.
Alumina particles, Manufacture of. V. Haensel. 2,667,404, Jan. 26.
Analysis of subsurface formations by radioactivity. G. Herzog. 2,667,583, Jan. 26.
Anchor spring biased apart at entering end. Expansion. W. J. Lewis. 2,667,099, Jan. 26.
Anchor support for boats. R. J. McCullough. 2,667,140, Jan. 26.
Antenna. V. Graziano. 2,667,577, Jan. 26.
Antenna mast support. V. W. Trebules. 2,667,317, Jan. 26.
Antrum spray. H. Scheer. 2,667,166, Jan. 26.
Apparatus adapted for receiving and eventually discharging cylindrical wrappers. D. G. Ashcroft and T. Pitcairn. 2,667,101, Jan. 26.
Apparatus and method for centrifugally mixing liquids. H. Hemfort. 2,667,338, Jan. 26.
Apparatus and method for filling products in containers. W. M. Martin. 2,667,424, Jan. 26.
Apparatus and method for ripping and sorting tobacco leaves. O. E. Eissmann. 2,667,174, Jan. 26.
Apparatus for and method of separating gases. S. C. Collins. 2,667,044, Jan. 26.
Apparatus for charging shaft furnaces. E. T. A. Tesch and I. E. Johansson. 2,667,278, Jan. 26.
Apparatus for distributing rubber in molds. G. S. and J. C. Lawson. 2,666,952, Jan. 26.
Apparatus for filtering and agitating plating solutions. S. S. Cady and W. E. Sabatka. 2,667,270, Jan. 26.
Apparatus for force balance. R. A. Ramey and W. Soller. 2,667,071, Jan. 26.
Apparatus for handling recumbent persons. J. E. Lenahan. 2,666,930, Jan. 26.
Apparatus for making terminal strips. Jerome J. and Joseph J. Kurland. 2,667,203, Jan. 26.
Apparatus for manipulating soderberg electrodes. E. F. Henderson. 2,667,523, Jan. 26.
Apparatus for manufacturing tubular articles by extrusion. H. Shaw. 2,666,947, Jan. 26.
Apparatus for reforming hydrocarbons. W. R. Pierce. 2,667,410, Jan. 26.
Apparatus for sampling wells. R. F. Farris. 2,667,223, Jan. 26.
Apparatus for testing calking and the like materials. T. Ramos, A. W. Cizek, Jr., and S. Weiss. 2,667,069, Jan. 26.
Apparatus for the fluid treatment of yarn. H. Karlen and E. Colombu. 2,667,055, Jan. 26.
Apparatus for the manufacture of plastic explosive pellets. E. G. Guenther and R. C. Burton. 2,666,948, Jan. 26.
Apparatus for treating glass fiber cloth. A. Férier. 2,667,568, Jan. 26.
Apparatus for use in conveying and opening textile fibrous materials. W. A. Hunter and F. Singleton. 2,666,956, Jan. 26.
Apparatus for washing and cleaning crockery, cooking utensils, and the like. A. E. Bennetts. 2,666,937, Jan. 26.
Apparatus for welding radiators. K. Österman and G. Arnberg. 2,667,137, Jan. 26.
Appliance of the drawer type. G. H. Wotring. 2,667,400, Jan. 26.
Aqueous solution inert to gelatin. W. C. Griffin. 2,667,268, Jan. 26.
Arch support. J. M. Affronte. 2,666,997, Jan. 26.
Aromatic thiosemicarbazones. H. Schmidt, R. Behnisch, and F. Mietzsch. 2,667,509, Jan. 26.
Arrangement of opposed superchargers. C. R. Wells. 2,667,298, Jan. 26.
Article transfer machine. O. Sandberg. 2,667,258, Jan. 26.
Artificial bait, Weedless. E. Lehmann, Sr. 2,667,006, Jan. 26.
Artificial leg jack. J. H. Morheiser. 2,666,927, Jan. 26.
Ash receiver and coaster unit, Combined. P. J. Mesi and S. T. Ogorek. 2,667,051, Jan. 26.
Asphalt composition, Self-extinguishing. L. A. Bierly. 2,667,425, Jan. 26.
Atomizer. H. A. Roselund. 2,667,382, Jan. 26.
Attaching members by vacuum pressure. L. W. Van Dusen. 2,666,979, Jan. 26.
Automatic control for garbage grinders. J. W. Hammes. 2,667,308, Jan. 26.
Automatic direction signal. H. M. Leonard. 2,667,545, Jan. 26.
Automatic gas inlet valve. M. M. Paluch and C. A. Teichert. 2,667,155, Jan. 26.
Automatic mechanism for phonograph record playing apparatus. A. J. Rae. 2,667,250, Jan. 26.
Automatic separator cutout switch. M. E. Frost. 2,667,629, Jan. 26.
Automatic stop mechanism for sewing machines. J. F. Jackert. 2,667,134, Jan. 26.
Automatic telephone connector circuit. F. Kessler and T. Frankel. 2,667,539, Jan. 26.
Automobile jack. A. A. White. 2,667,328, Jan. 26.
Automobile tail pipe connector. C. J. Gardner. 2,667,372, Jan. 26.
Awning. E. H. Pratt. 2,666,964, Jan. 26.
Axle for vehicles, Rear. W. C. Mennear. 2,667,047, Jan. 26.
Bagmaking method and apparatus. B. C. Golden. 2,667,132, Jan. 26.
Balancing of aircraft control columns. H. R. Watson, J. Morris, and H. J. Staite. 2,667,315, Jan. 26.
Ball cock. G. R. Bennett. 2,667,179, Jan. 26.
Band forming machine and process. F. E. Monks. 2,667,108, Jan. 26.
Battery, Alkaline storage. P. Hersch. 2,667,525, Jan. 26.
Battery, Deferred action. L. E. Pucher. 2,667,527, Jan. 26.
Bearing and seal assembly. F. A. Schick. 2,667,388, Jan. 26.
Bearing construction. T. R. Smith. 2,667,389, Jan. 26.
Bedspring holder. F. J. Ressler and T. M. Shockey. 2,666,932, Jan. 26.
Bedstead, Adjustable. L. F. Clerc. 2,666,931, Jan. 26.
Bending machine, Automatic. A. L. Froedge. 2,667,202, Jan. 26.
Benzimidazole phosphate. D. H. Hoffman, C. H. Shunk and K. Folkers. 2,667,479, Jan. 26.
β-(tertiary alkylmercapto) N-ethyl quaternary pyridinium and quinolinium derivatives J. K. Fincke. 2,667,489, Jan. 26.
Bird cage whistle. J. H. Bacon. 2,667,012, Jan. 26.
Bis-quaternary salts and their preparation. R. Slack, D. D. Libman, and D. L. Pain. 2,667,493, Jan. 26.
Bit: *See*—
Full hole diamond bit.
Blast diffusing means for electric circuit breakers of the fluid-blast type. J. W. Beatty and H. N. Schneider. 2,667,555, Jan. 26.

Bleaching keratinous materials. H. F. Fick. 2,667,475, Jan. 26.
Blowtorch. M. A. Silverman and H. H. Sherman. 2,667,214, Jan. 26.
Boat, Sectional. H. Engensperger. 2,666,933, Jan. 26.
Boat, Steerable jet propeller. T. W. Lepkowski. 2,667,141, Jan 26.
Bobbin drive for winding machines. W. W. Egee. 2,667,310, Jan. 26.
Bolometer for coaxial transmission lines. W. E. Waller and S. A. Johnson. 2,667,618, Jan. 26.
Boring machine. E. M. Bowen. 2,667,091, Jan. 26.
Brake attachment for vise jaws, Bending. P. Kilham. 2,667,201, Jan. 26.
Brake interlock apparatus, Dynamic and fluid pressure. E. G. Erson and G. M. Thomas. 2,667,385, Jan. 26.
Braking apparatus. A. H. Wilkinson and M. Pallein. 2,667,240, Jan. 26.
Brassière. W. Rosenthal. 2,666,918, Jan. 26.
Brush. R. W. Davison. 2,666,940, Jan. 26.
Buckle and like mounting. M. M. Isaacs. 2,666,926, Jan. 26.
Bucksaw and case therefor, Foldable. E. R. Kilmer. 2,667,195, Jan. 26.
Building panel, Reinforced. N. J. Campbell. 2,667,060, Jan. 26.
Building structure, Prefabricated. H. S. Shannon. 2,667,241, Jan. 26.
Buoy and cable, Mooring. E. J. Leifheit. 2,666,934, Jan. 26.
Burner: *See*—
Countercurrent vaporizing Oil burner.
flare burner.
Burner apparatus, Combination gas-oil. C. C. Young. 2,667,213, Jan. 26.
Burner assembly, Radiant gas. J. S. Zink and R. D. Reed. 2,667,216, Jan. 26.
Butter composition, Hard. G. Barsky and G. Zinzalian. 2,667,418, Jan. 26.
Cab, Plastic tractor. G. P. Baze. 2,667,379, Jan. 26.
Cabinet: *See*—
Camper's storage cabinet. Convertible cabinet.
Cable: *See*—
Electric ribbon cable.
Cable attenuator matching device, Coaxial. E. Weber, J. W. E. Griemsmann, and S. A. Johnson. 2,667,622, Jan. 26.
Calcining and calcining apparatus. T. R. Ellerbeck. 2,667,342, Jan. 26.
Calculating machine. R. S. Wallach and T. E. Torkelson. 2,667 304. Jan. 26.
Camera and filter support for stereoscopic photography. J. S. Youtcheff. 2,667,110, Jan. 26.
Camera assembly for photographing cavity walls. R. G. Piety. 2,667,109, Jan. 26.
Camera with winding knob retaining means, Folded cardboard. J. Fried. 2,667,111, Jan. 26.
Camper's storage cabinet. H. W. Claflin. 2,667,398, Jan. 26.
Capacitor and terminal lead therefor. R. M. Rood and O. A. Keser. 2,667,606, Jan. 26.
Carboxylic acids from allylic compounds, Preparation of. P. H. Towle and P. Hill. 2,667,508, Jan. 26.
Carpet cutting device. N. Codianne. 2,666,986, Jan. 26.
Carrier: *See*—
Pneumatic carrier.
Cart, Garbage can. H. H. Whitley. 2,667,320, Jan. 26.
Carton for bakery products and the like, Handled. R. McReary. 2,667,297, Jan. 26.
Cash register key coupler mechanism. H. and S. Gross. 2,667,303, Jan. 26.
Caster glide. M. Kramcsak, Jr. 2,666,943, Jan. 26.
Cavity tuner. E. G. Martin. 2,667,623, Jan. 26.
Cellulose ether, Manufacture of. W. M. Branan and G. E. Desetti. 2,667,480. Jan. 26.
Centrifuge connection. C. Schmitz and H. Hemfort. 2,667,302, Jan. 26.
Ceramic, Metalized. H. J. Nolte. 2,667,432, Jan. 26.
Chain shoe, Traction. A. L. Mathisen. 2,667,386, Jan. 26.
Chair and table combination. J. A. Magyar. 2,667,207, Jan. 26.
Chair and table, Combined. J. N. Whalen. 2,667,208, Jan. 26.
Chair construction with resiliently mounted seat and back. C. Eames. 2,667,210, Jan. 26.
Change-speed gear. P. Durand. 2,667,080, Jan. 26.
Chemical process for dialkylacylamides. W. T. Dye, Jr. 2,667,510, Jan. 26.
Chemical process for retaining cutting edges. C. F. Young. 2,667,456, Jan. 26.
Chloromethyl methyl ether, Making. W. C. Bauman and E. L. McMaster. 2,667,516, Jan. 26.
Choke device. T. M. Ball. 2,667,154, Jan. 26.
Cigar machine. H. H. Wheeler. 2,667,173, Jan. 26.
Cigarette rod condition measuring and indicating. W. C. Broekhuysen and J. W. Warren. 2,667,172, Jan. 26.
Circuit: *See*—
Automatic telephone connector circuit. Power divider circuit.
Frequency discriminator circuit.
Circuit breaker trip control device. R. G. Page. 2,667,548, Jan. 26.
Circuit control for electric appliances, Heating. W. C. Clark. 2,667,560, Jan. 26.
Circuit element, Semiconductor. A. L. Robinson. 2,667,607, Jan. 26.
Circuit interrupter. R. C. Van Sickle and J. M. Cumming. 2,667,556, Jan. 26.
Circuits for fluorescent lamps, Starting and operating. W. S. H. Hamilton. 2,667,604, Jan. 26.
Circuits for superheterodyne microwave receivers, Automatic frequency control. O. H. Winn. 2,667,636, Jan. 26.
Clamp: *See*—
Mounting clamp.
Clamp for glass panels or the like, Multiangular. R. N. Ghersin and G. L. Briggs. 2,667,246, Jan. 26.
Clamp for nonmetallic sheathed cables. S. R. Ferguson. 2,667,368, Jan. 26.
Clamping attachment for earrings. M. V. Mosley. 2,666,973, Jan. 26.
Claw clutch. G. Meyer. 2,667,252, Jan. 26.
Cleaner: *See*—
Cow barn gutter cleaner. Window cleaner.
Closure operator. R. A. Terry and G. C. Kuehn. 2,667,221, Jan. 26.
Clothespin making machine. H. A. Lisherness. 2,667,191, Jan. 26.
Clothes-washing and squeeze-dry machine. G. P. Castner. 2,667,054, Jan. 26.
Clutch: *See*—
Claw clutch.
Clutch and brake on geared type presses, Friction. R. E. Wissman. 2,667,248, Jan. 26.
Clutch shifting means for transmissions. O. H. Banker. 2,667,251, Jan. 26.
Clutch with toggle lever operator. W. G. Sherman. 2,667,253, Jan. 26.
Coal burning magazine space heater. D. H. Wyatt. 2,667,158, Jan. 26.
Coating mixture with addition agent and method of coating therewith. J. B. Diffenderfer. 2,667,429, Jan. 26.
Coffee maker. L. Burgess. 2,667,114, Jan. 26.
Coil forms with ends of insulation having electrical terminals thereon. B. A. Beis. 2,667,624, Jan. 26.
Coiling head assembly. G. H. Jaycox. 2,667,204, Jan. 26.
Coin collecting device. A. K. Nielsen. 2,667,255, Jan. 26.
Colander for cooking and serving vegetables and the like, Adjustable. E. M. Millard, A. L. Turner, H. M. Kurz, and M. L. Dockery. 2,667,117, Jan. 26.
Collapsible valve. G. E. Hansen. 2,667,324, Jan. 26.
Collar holding device. G. W. Ruane. 2,666,921, Jan. 26.
Coloring embossed fabric, Method and means for. T. E. Davis. 2,667,426, Jan. 26.
Colostomy pouch. P. A. Raiche. 2,667,167, Jan. 26.
Combustion apparatus for operation in fast-moving air streams. P. F. Ashwood. 2,667,033, Jan. 26.
Combustion chamber with lubricating means, Revolving. G. Boulet. 2,667,032, Jan. 26.
Condensation products of trimethylhydroxyethyl ammonium hydroxide and dimethylxanthine and preparing same. W. H. Feinstone. 2,667,487, Jan. 26.
Connecting device, Electric. E. P. G. Wright. 2,667,542, Jan. 26.
Connector: *See*—
Automobile tail pipe connector. Flexible fluid-conducting connector.
Container with slidable closure, Cylindrical. C. E. Misch. 2,667,285, Jan. 26.
Containers, Making partition. M. M. Andrews. 2,666,953, Jan. 26.
Control mechanism for honing machines. E. Y. Seborg. 2,667,016, Jan. 26.
Control method and apparatus. R. J. Coar. 2,667,150, Jan. 26.
Controlling the tension in running strip, Means for. J. L. Packer and G. T. W. Grieve. 2,667,311, Jan. 26.
Convertible cabinet. H. G. Knuth. 2,667,401, Jan. 26.
Conveyance construction. H. D. Fenske. 2,667,243, Jan. 26.
Conveyer line handling and testing of manufactured articles. S. S. Johns. 2,667,062, Jan. 26.
Conveyer, Roller. F. J. Berger. 2,667,261, Jan. 26.
Conveyer system. H. G. Pyles. 2,667,260, Jan. 26.
Cooky machine. A. A. Kottmann and P. C. Bauer. 2,667,130, Jan. 26.
Cooler for gas leaving roots blowers. C. L. Densham. 2,667,046, Jan. 26.
Cooling means for dynamometers. H. L. Bennett. 2,667,238, Jan. 26.
Cooling system for automotive vehicles. C. A. McCarty. 2,667,045, Jan. 26.
Corn planter packer wheel scraper. L. R. Woodward and B. Christensen. 2,667,362, Jan. 26.
Countercurrent vaporizing flare burner. L. R. Brown and K. J. Whittet. 2,667,136, Jan. 26.
Counting and gauging device, Combined. P. Schaurte. 2,667,631, Jan. 26.
Coupling: *See*—
Hydrostatic coupling. Torsional vibration isolating coupling.
Parachute quick release coupling.
Coupling device, Tractor-semitrailer. J. Colpo. 2,667,364, Jan. 26.
Coupling for conduit parts. P. C. Holte. 2,667,371, Jan. 26.

Coupling for tractor and semitrailer units. A. G. Talbert. 2,667,363, Jan. 26.
Cow barn gutter cleaner. C. G. Holloway. 2,667,264, Jan. 26.
Crate and pallet structure, Combined. B. C. Colt, Jr. 2,667,319, Jan. 26.
Crate, Milk bottle. E. G. Hoch. 2,667,284, Jan. 26.
Curing press mechanism. A. P. Grover and W. M. Milden. 2,666,950, Jan. 26.
Current control apparatus. K. A. Lang. 2,667,616, Jan. 26.
Cutoff and drain for oil burners, Automatic feed line. D. E. Pressey and J. M. Conley. 2,667,215, Jan. 26.
Cyclic carbonates, Preparation of. W. K. Cline. 2,667,497, Jan. 26.
Cyclopentadienylsilanes. R. W. Martin. 2,667,501, Jan. 26.
Cylinder, Differential. G. B. Marsden. 2,667,035, Jan. 26.
Cylinder interrupter for offset lithographic printing machines. C. G. King. 2,667,120, Jan. 26.
Decobalting oxo aldehydes with ion exchange resins. M. C. Fuqua and G. P. Hamner. 2,667,514, Jan. 26.
Decorticating device. H. Wagter. 2,666,955, Jan. 26.
Dental floss. W. H. Ashton. 2,667,443, Jan. 26.
Dentures, Connected upper and lower. R. W. Myers. 2,666,988, Jan. 26.
Derivatives of benzylidenecyanoacetic acid. D. T. Mowry and A. H. Schlesinger. 2,667,411, Jan. 26.
Device for dispensing liquids from tanks by either pumping means or pneumatic means. A. J. Daniels. 2,667,289, Jan. 26.
Device for producing screening images of body sections. S. Gradstein. 2,667,585, Jan. 26.
Device for testing the hardness of metals. A. Ernst. 2,667,065–6, Jan. 26.
Device for transferring ingot mold caps. A. W. Peterson. 2,667,276, Jan. 26.
Device permitting the ambulatory ionization of blood circulatory troubles of the lower limbs. H. Zwahlen. 2,667,162, Jan. 26.
Diaper, Disposable. L. G. Lovekin. 2,667,168, Jan. 26.
Diaphragm, Flexible pressure-responsive. R. S. Emerson. 2,667,183, Jan. 26.
Diaphragm for X-ray tubes, Beam-limiting. K. Oswald. 2,667,588, Jan. 26.
Differential mechanism, Transfer case. A. F. Myers. 2,667,087–8, Jan. 26.
Diffusion-substitution coating of metal articles from a tin salt melt. E. Gebhardt and G. Schrag. 2,667,433, Jan. 26.
Disazo-dyestuffs. H. W. Liechti. 2,667,477, Jan. 26.
Dispenser for articles of magnetic material. D. N. Goetz and R. C. La Borde. 2,667,394, Jan. 26.
Dispenser for bottles, Liquid. J. E. McPhee. 2,667,290, Jan. 26.
Dispensing applicator for artificial eyelashes and the like. J. L. Wassmer. 2,667,176, Jan. 26.
Display device, Advertising. J. J. Sheridan. 2,667,001, Jan. 26.
Display device for vehicle tops. W. T. Clore. 2,667,002, Jan. 26.
Display form for socks and stockings. S. Nettler. 2,667,292, Jan. 26.
Disulfonic acids, Preparation of. W. D. Jones and S. B. McFarlane. 2,667,507, Jan. 26.
Dock plate. T. O. Palmer. 2,666,936, Jan. 26.
Doll eye-set, Miniature. P. Tomniarchi and W. C. Byer. 2,667,013, Jan. 26.
Door: *See*—
Glass door.
Door closing mechanism. T. A. Stehlin. 2,666,944, Jan. 26.
Door closure for wing hangars. B. H. Tripp. 2,666,962, Jan. 26.
Draft device, Longitudinally adjustable. A. M. Otjen. 2,667,366, Jan. 26.
Drawing plastic sheet, Method and apparatus for. L. C. Grove and R. L. Thompson. 2,666,951, Jan. 26.
Dress. H. Lang. 2,666,920, Jan. 26.
Drill: *See*—
Rotary percussion drill.
Drilling equipment, Flexible shaft well. J. S. McCune and W. E. Hanks. 2,667,332, Jan. 26.
Drilling machine. W. N. Martin. 2,667,333, Jan. 26.
Drive connection. J. E. Whitfield. 2,667,048, Jan. 26.
Drying apparatus. A. H. Kirkpatrick. 2,666,995, Jan. 26.
Duplex flat constructions. F. J. Hinton. 2,666,960, Jan. 26.
Dust collector hood construction. R. Jaron. 2,667,017, Jan. 26.
Dye solution flaw inspection method. L. W. Sockman and E. W. Brady. 2,667,070, Jan. 26.
Electric heating. H. C. Cunningham. 2,667,564, Jan. 26.
Electric incandescent lamp. H. E. Hermanson and F. S. Lamb. 2,667,594, Jan. 26.
Electric radiant heating. J. McOrily. 2,667,563, Jan. 26.
Electric ribbon cable. S. R. Smith and C. Rhodes. 2,667,543, Jan. 26.
Electric shocking device. J. C. and H. W. Wilson. 2,667,350, Jan. 26.
Electric soldering iron. A. Schoenwald. 2,667,561, Jan. 26.
Electric switch. L. Griffiths. 2,667,544, Jan. 26.
Electrical system. E. M. Creamer, Jr., and M. E. Partin. 2,667,534, Jan. 26.
Electrode for compact type electrical discharge devices. D. L. Hilder. 2,667,592, Jan. 26.
Electrolytic methods and apparatus for production of metal hydroxides. P. S. Roller. 2,667,454, Jan. 26.
Electrolytic production of iron from iron sulfate solutions. S. A. Aannerud and E. Mostad. 2,667,455, Jan. 26.
Electron discharge apparatus utilizing a cavity resonator. E. G. Linder. 2,667,598, Jan. 26.
Electron discharge device, Velocity modulated. R. S. Bailey. 2,667,597, Jan. 26.
Electron tube. H. D. Doolittle. 2,667,593, Jan. 26.
Electronic ringing current generator. O. D. Grandstaff. 2,667,632, Jan. 26.
Electronic tube. D. A. Sokolov. 2,667,528, Jan. 26.
Electroplating copper on metal articles. G. E. Murray. 2,667,453, Jan. 26.
Electrostatic generator. R. G. Brown. 2,667,615, Jan. 26.
Elevation meter. R. T. Cloud. 2,666,992, Jan. 26.
Energy proportional counting of exterior radiation. H. Kallmann. 2,667,586, Jan. 26.
Energy storing overrunning operating device. J. A. Favre. 2,667,076, Jan. 26.
Engine control device wtih an induction pressure reset mechanism responsive to operation of an antidetonant fluid injection system. A. W. Blanchard. 2,667,148, Jan. 26.
Eraser cleaning machine, Brushless. C. S. Coleman. 2,666,942, Jan. 26.
Evaporator and drip catcher arrangement for refrigerating apparatus. R. M. Henderson. 2,667,041, Jan. 26.
Exhaust auxiliary for internal-combustion engines. W. Ryder. 2,667,031, Jan. 26.
Exhaust manifold for internal-combustion engines. J. P. Marx. 2,667,151, Jan. 26.
Extensible article support. R. G. Mason. 2,667,323, Jan. 26.
Extensible iron stand. C. K. Brandt. 2,666,999, Jan. 26.
Fan, Duel-purpose. M. E. Lautner. 2,667,301, Jan. 26.
Fastener device. H. Chow. 2,666,971, Jan. 26.
Fastening device. W. A. Bedford, Jr. 2,666,968, Jan. 26.
Fastening device. W. A. Bedford, Jr. 2,667,200, Jan. 26.
Feeder: *See*—
Nail feeder.
Fence, Foldable. F. M. Lewis. 2,667,335, Jan. 26.
Fiber-cement sheet laminates, Manufacture of. J. E. Hesse. 2,667,107, Jan. 26.
Filler feed control mechanism for cigar machines. S. Clausen and J. A. Neumair. 2,667,171, Jan. 26.
Filler plate for reversible hinges. C. W. Kelly. 2,666,945, Jan. 26.
Filter: *See*—
Fluid filter. Torsional filter.
Self-cleaning fluid filter.
Finned element for thermal or heat transfer purposes. E. Chapman. 2,667,337, Jan. 26.
Fire extinguisher, Powder. F. B. Allen and N. H. Siebens. 2,667,225, Jan. 26.
Fish lock for downstream migration of fingerlings. C. V. Davis, L. F. Harza, and J. F. Ward. 2,667,036, Jan. 26.
Fishing lure, Erratic. W. E. Heron. 2,667,007, Jan. 26.
Fishing reel. H. W. Denison and L. E. Johnson. 2,667,312, Jan. 26.
Flexible flight for chain conveyers. W. P. and J. G. Bigler. 2,667,263, Jan. 26.
Flexible fluid-conducting connector. T. C. Harper. 2,667,369, Jan. 26.
Flexible walled measuring pocket with inlet and outlet cutoffs. H. Mach. 2,667,288, Jan. 26.
Flow control device. C. W. St. Clair. 2,667,186, Jan. 26.
Fluid diverter. J. L. Beavers. 2,667,185, Jan. 26.
Fluid filter. C. M. Tursky. 2,667,271, Jan. 26.
Fluid operated power generator. H. A. Levrero. 2,667,589, Jan. 26.
Flush ball guide. L. W. Schnepp. 2,666,929, Jan. 26.
Folding closure. S. M. Collins. 2,667,218, Jan. 26.
Follow-up type of calibrating means. J. A. Siderman. 2,667,608, Jan. 26.
Food products, Substantially dehydrated. C. M. Gooding, H. W. Vahlteich, and R. H. Neal. 2,667,419, Jan. 26.
Formaldehyde, Manufacture of. A. C. McKinnis. 2,667,513, Jan. 26.
Free piston machine the compressor portion of which includes at least two stages. R. Huber. 2,667,300, Jan. 26.
Frequency control system. J. B. Atwood. 2,667,579, Jan. 26.
Frequency discriminator circuit. L. Staschover. 2,667,576, Jan. 26.
Fuel injection and distributing apparatus for internal-combustion engines. H. Lang. 2,667,152, Jan. 26.
Full hole diamond bit. J. E. Ortloff. 2,667,334, Jan. 26.
Furnace: *See*—
Induction heating furnace.
Furnace lining, lining furnaces, and the like. J. F. Govan. 2,666,975, Jan. 26.
Furniture leg attaching device, Knockdown. P. D. Becker. 2,667,393, Jan. 26.
Fuse construction, Electric. H. H. Fahnoe and W. A. Gaskill. 2,667,549, Jan. 26.

Fuse, Thermal time lag. G. A. Berthel. 2,667,551, Jan. 26.
Fuse wall outlet, Electrical. C. A. Lindeman, Jr. 2,667,547, Jan. 26.
Game device. J. E. Mathews and A. C. Gordon. 2,667,354, Jan. 26.
Game device, Chess. T. R. Lanice. 2,667,353, Jan. 26.
Gas controlling valve. E. H. Mueller. 2,667,325, Jan. 26.
Gas igniter, Electrocatalytic. J. Massier. 2,667,605, Jan. 26.
Gas-liquid contact apparatus. B. S. Robson. 2,667,340, Jan. 26.
Gaslock for spray nozzles. G. Busfield. 2,667,341, Jan. 26.
Gas producer. O. Hubmann. 2,667,409, Jan. 26.
Gas turbine. M. Ledinegg. 2,667,326, Jan. 26.
Gauge: *See*—
Precision gauge. Quick set extension gauge.
Gear: *See*—
Change-speed gear.
Generator: *See*—
Electronic ringing current generator. Mechanical fog generator.
Electrostatic generator. Smoke generator.
Fluid operated power generator.
Generator for testing servo mechanisms, Motion. A. A. Wolf. 2,667,609, Jan. 26.
Glare shield and clip therefor. N. M. Holme-Shaw. 2,667,378, Jan. 26.
Glass door. G. L. West. 2,667,244, Jan. 26.
Glass fabric and making same, Synthetic resin impregnated. J. R. Wells. 2,667,430, Jan. 26.
Glue bone tankage treatment. E. N. Mortenson. 2,667,500, Jan. 26.
Grinding and polishing glass sheets and plates. D. W. Dunipace and I. G. Fowler. 2,667,018, Jan. 26.
Gunrack. F. Diebold. 2,667,274, Jan. 26.
Gyratory crusher. G. D. Becker. 2,667,309, Jan. 26.
Gyroscope damping device. B. J. Baecher. 2,667,077–8, Jan. 26.
Haemocytometer pipette. S. M. Whitehill and F. A. Groth. 2,667,074, Jan. 26.
Haircutter and safety razor, Combined. H. Schroder. 2,666,982, Jan. 26.
Halogenated cyclic ketones and their production. D. E. Adelson. 2,667,512, Jan. 26.
Hammer and spacer, Stalk shredder. C. B. Richey. 2,667,022, Jan. 26.
Hand stamping stencil holder. J. R. Thomas. 2,667,119, Jan. 26.
Handling finely divided solid materials. S. C. Lane and H. H. Vickers. 2,667,280, Jan. 26.
Handling finely divided solids. J. C. Munday. 2,667,448, Jan. 26.
Handling sliced food, Method and apparatus for. B. E. Meulemans and W. A. Nelson. 2,667,420, Jan. 26.
Harness, Trolling. J. W. Baum. 2,667,008, Jan. 26.
Harvester, Cotton. R. E. Ellis and J. A. Ashkouti. 2,667,023, Jan. 26.
Harvester, Peanut. E. E. Johnson. 2,667,021, Jan. 26.
Head covering, Worker's. E. Berg. 2,666,923, Jan. 26.
Head for musical instruments. R. L. McMullen. 2,667,098, Jan. 26.
Headgear. L. Mayer. 2,666,925, Jan. 26.
Heat exchangers, Making. R. A. Sandberg. 2,666,981, Jan. 26.
Heat transfer checker work and unit shapes therefor. J. P. Swentzel. 2,667,343, Jan. 26.
Heat treatment of polytrifluorochloroethylene plastic. W. T. Miller. 2,667,474, Jan. 26.
Heater: *See*—
Coal burning magazine space heater.
Heating devices. E. Buehler. 2,667,567, Jan. 26.
Heating of hydrocarbon fluids. V. Mekler. 2,667,449, Jan. 26.
Heating unit for cementing bases to electron tubes. M. R. Weingarten. 2,667,205, Jan. 26.
Helicopter rotor, Jet-driven. F. L. Doblhoff. 2,667,226, Jan. 26.
Herbicidal composition. D. T. Mowry and A. H. Schlesinger. 2,667,412, Jan. 26.
High octane gasoline, Manufacture of. R. A. Findlay. 2,667,446, Jan. 26.
Hinge for cooking appliances, Three position. H. H. Miller. 2,666,946, Jan. 26.
Hogshead handling apparatus. F. B. Fishburne and W. L. Rice. 2,667,279, Jan. 26.
Hoist, Electric. E. E. Robins and H. F. Parker. 2,667,331, Jan. 26.
Hoisting and weighing device, Combined. A. F. Llanusa. 2,667,275, Jan. 26.
Holder: *See*—
Bedspring holder. Telephone and memorandum paper holder.
Hand stamping stencil holder. Toothbrush holder.
Holder for fishing implements. H. A. Bear. 2,667,009, Jan. 26.
Honing device, Safety razor blade. E. Schramm. 2,666,987, Jan. 26.
Horizontal boring, drilling, and milling machine, Combined. H. N. Stephan. 2,667,105, Jan. 26.
Horn ring. L. E. Russell. 2,667,083, Jan. 26.
Hulling apparatus, Grain. J. E. Giles. 2,667,197, Jan. 26.
Hutch, Rabbit. W. C. Havens. 2,667,143, Jan. 26.
Hydraulic chuck. W. J. F. Forward. 2,667,356, Jan. 26.
Hydraulic lash adjuster. W. J. Purchas, Jr., and R. C. Moser. 2,667,149, Jan. 26.
Hydraulic machine. R. M. Reichl and R. Singer. 2,667,136, Jan. 26.
Hydraulic speed governor. J. S. Dale. 2,667,345, Jan. 26.
Hydrocarbon conversion process. E. C. Harney. 2,667,521, Jan. 26.
Hydrodynamic transmission. P. C. Ackerman. 2,667,085, Jan. 26.
Hydrostatic coupling. A. H. Hailer and F. S. Saunders. 2,667,184, Jan. 26.
Illuminating means for microscopes. M. Silge. 2,667,103, Jan. 26.
Improvement in or relating to rules, more particularly ruling lines on paper. P. A. Ellison. 2,666,991, Jan. 26.
Induction heating furnace. L. Dreyfus, T. Thelemarck, I. Becklus, and H. Lindström. 2,667,524, Jan. 26.
Inhalator, Portable. J. C. Hallisey. 2,667,397, Jan. 26.
Insoluble sulfur, Producing. R. E. Morningstar. 2,667,406, Jan. 26.
Insulating bushing, High-voltage electrical. P. A. Ewer. 2,667,532, Jan. 26.
Insulation for electrical conductors. M. S. Greenhalgh. 2,667,464, Jan. 26.
Interpolymer of cyclo-diolefine and an unsaturated ester. R. H. Jakob, R. W. H. Tess, and T. F. Bradley. 2,667,463, Jan. 26.
Iron: *See*—
Electric soldering iron.
Iron with movable heating element, Steam. K. B. Dafforn and R. I. Huffman. 2,666,998, Jan. 26.
Irrigation tube lifter. A. G. Cardinal. 2,667,375, Jan. 26.
Jack: *See*—
Artificial leg jack. Tractor jack.
Automobile jack.
Joint and equalizing support therefor, Bellows type expansion. J. S. Clarke. 2,667,370, Jan. 26.
Juicer, Fruit. T. G. Nelson. 2,667,118, Jan. 26.
Ketone dewaxing process. S. F. Perry, G. W. Engisch, and R. A. Marriner. 2,667,447, Jan. 26.
Key loop supporting plate. M. V. Duell. 2,667,059, Jan. 26.
Ladder, Aerial. H. J. Troche and J. H. Holan. 2,667,296, Jan. 26.
Lamp: *See*—
Electric incandescent lamp.
Lancet readying and storing device. E. J. Poitras. 2,666,967, Jan. 26.
Leaf for furniture, Extension. A. T. Swimmer. 2,667,399, Jan. 26.
Lens, Tail lamp. H. C. Mead and G. W. Onksen, Jr. 2,667,572, Jan. 26.
Lift frame for agricultural implements. F. B. Carney. 2,667,112, Jan. 26.
Lifter: *See*—
Irrigation tube lifter.
Lifting device. D. F. Jorgensen. 2,667,330, Jan. 26.
Light flasher, Electric. N. J. Lituchy. 2,667,550, Jan. 26.
Light for motor trucks and trailers, Detachable. J. Lethcoe. 2,667,569, Jan. 26.
Light valve. W. E. Buck. 2,667,104, Jan. 26.
Lighter, Cigar. P. E. Ashton. 2,667,562, Jan. 26.
Lighting unit for dual power supply systems, Plug-in. K. Versen. 2,667,571, Jan. 26.
Line feed mechanism. B. F. Madsen. 2,667,256, Jan. 26.
Liner and cover for leaf springs, Combined. C. S. Jacobs. 2,667,347, Jan. 26.
Link conveying belt. P. H. Davis. 2,667,262, Jan. 26.
Liquid adhesive applying mechanism with piston feed. W. W. Maher. 2,667,138, Jan. 26.
Liquid level control. M. S. Fred and E. G. Rauh. 2,667,178, Jan. 26.
Liquid-liquid contact method and apparatus. M. R. Fenske and R. B. Long. 2,667,407, Jan. 26.
Liquid or lubricant distribution system. C. C. S. Le Clair. 2,667,235, Jan. 26.
Lock: *See*—
Rung lock.
Lock for chuck jaws, Cam. G. A. Highberg. 2,667,358, Jan. 26.
Lock for doors and the like. H. Thorne. 2,667,057, Jan. 26.
Lock for swinging doors. C. P. Skoglund. 2,667,058, Jan. 26.
Lock slider, Automatic. L. H. Morin. 2,666,969, Jan. 26.
Locking collar for instrument mountings. H. S. Pasturczak. 2,667,321, Jan. 26.
Loom for weaving tufted pile fabrics. I. B. Bassindale. 2,667,188, Jan. 26.
Loud-speakers, Making. E. L. Russell. 2,666,980, Jan. 26.
Louver, Jalousie window. J. M. Sprow. 2,666,965, Jan. 26.
Low temperature fabrication of molybdenum and alloys thereof. J. W. Marden and S. V. Cuthbert. 2,667,435, Jan. 26.
Lower bowl construction for vacuum type coffee makers and switch therefor. A. J. Huck and C. D. Visos. 2,667,566, Jan. 26.

Lubricant measuring spray means. G. T. Graves. 2,667,236, Jan. 26.
Lubricant pump. C. C. S. Le Clair. 2,667,126, Jan. 26.
Luggage carrier for automotive vehicles, Turret type. A. Johnston and L. F. Lotter. 2,667,295, Jan. 26.
Machine for applying transfers. G. W. von Hofe. 2,667,003, Jan. 26.
Machine for making plywood patches or pieces of predetermined shape. C. A. Sherman. 2,667,193, Jan. 26.
Machine for shaping leather blanks into shoe components such as toe caps. A. G. Gilbert and W. H. Rogers, Jr. 2,666,935, Jan. 26.
Machine for the intensive opening of fibrous materials. W. A. Hunter. 2,666,957, Jan. 26.
Magnetron, Slot type. E. M. Purcell. 2,667,601, Jan. 26.
Magnetron with valence electrode. C. V. Litton. 2,667,580, Jan. 26.
Making polysulfonamides from bis-sulfonyl chloride and diamine salt in presence of water and water-immiscible solvent. W. D. Jones and S. B. McFarlane. 2,667,468, Jan. 26.
Manganese dioxide for use as depolarizer in dry cells, Production of a. W. Müller and H. Kircher. 2,667,405, Jan. 26.
Manifold for clarifier intakes. A. W. Gardes. 2,667,273, Jan. 26.
Manual control mechanism. W. MacNamara. 2,667,084, Jan. 26.
Marking device. P. Traugott. 2,667,402, Jan. 26.
Mask, Face. E. E. Wood and W. A. Hafferty. 2,667,161, Jan. 26.
Mass separator. J. G. Backus. 2,667,582, Jan. 26.
Mast support. H. G. Sesler. 2,667,318, Jan. 26.
Maternity and nursing brassière. L. C. Spangard. 2,666,919, Jan. 26.
Measuring instrument, Flow. R. C. Webster. 2,667,072, Jan. 26.
Mechanical fog generator. W. J. Besler. 2,667,459, Jan. 26.
Mechanical memory apparatus for beet toppers or the like. V. O. Hauswirth. 2,667,024, Jan. 26.
Mechanism for actuating dump bodies. A. J. Tripodi. 2,667,381, Jan. 26.
Mechanism for double sole trimming. E. St. Pierre and J. Wawzonek. 2,667,053, Jan. 26.
Mercurial diuretic. A. Schlesinger, N. Weiner, and S. M. Gordon. 2,667,442, Jan. 26.
Metalizing a ceramic member. H. J. Nolte. 2,667,427, Jan. 26.
Metallized dyes for cotton. C. H. Stratton and W. W. Williams. 2,667,476, Jan. 26.
Metallizing ceramics. D. G. Burnside. 2,667,431, Jan. 26.
Meter: *See*—
Elevation meter.
Mixing device having holder for beverage cups. J. B. Presley and L. Forman. 2,667,339, Jan. 26.
Moisture-extracting press. G. N. Strike. 2,667,056, Jan. 26.
Moisture tester. A. A. Andersen and B. C. Mathews. 2,667,064, Jan. 26.
Molding composition. R. J. Nebesar. 2,667,465, Jan. 26.
Molding machine. E. M. Stankewich. 2,666,949, Jan. 26.
Monoamino boron trifluoride, Producing. F. J. Sowa. 2,667,403, Jan. 26.
Mop, Self-wringing. N. B. Greenleaf and L. C. Webster. 2,666,939, Jan. 26.
Motorcar carrier, five-car capacity. C. C. Stuart. 2,667,377, Jan. 26.
Motor control system for use with translation devices, Plural. O. H. Schmitt and W. B. Greenlee. 2,667,610, Jan. 26.
Motor drive system, Multiple speed. J. H. Trevitt. 2,667,613, Jan. 26.
Motor-driven pump. W. Rimann. 2,667,127, Jan. 26.
Motor for family sewing machine drives, Induction. V. Rodzianko. 2,667,611, Jan. 26.
Motor of fluid volume meters, Expansible chamber. W. L. Brown. 2,667,147, Jan. 26.
Mounting bracket for tubular lamps. H. H. Goldthorpe. 2,667,570, Jan. 26.
Mounting clamp. R. W. Strobel. 2,666,972, Jan. 26.
Mounting filament wire, Method and apparatus for. J. Flaws, Jr. 2,667,189, Jan. 26.
Moving target indication apparatus. G. W. Hart. 2,667,634, Jan. 26.
Moving target indicator radar system. R. C. Hergenrother. 2,667,635, Jan. 26.
Musical apparatus, Magnetophonic. P. H. Schaeffer. 2,667,097, Jan. 26.
Nail feeder. R. W. Brimhall. 2,666,917, Jan. 26.
Needle threader. K. Hoeckele. 2,667,294, Jan. 26.
Nickel-cadmium batteries, Making. M. J. Stumbock. 2,667,526, Jan. 26.
Nitrogen derivatives of tetraacetic acids as rubber stabilizers. J. F. McElroy. 2,667,522, Jan. 26.
No-spin differential. J. Amour. 2,667,086, Jan. 26.
Oil burner. H. Phipps. 2,667,384, Jan. 26.
Oil well torpedo. L. A. Burrows and M. A. Cook. 2,667,122, Jan. 26.
Opener with pivotally mounted cap skirt engaging means, Bottle. G. Leonard. 2,667,093, Jan. 26.
Operating device for change-speed gearings of bicycles. I. A. Asp and O. G. Berg. 2,667,081, Jan. 26.
Operating mechanism for electric circuit breakers. R. B. Shores. 2,667,554, Jan. 26.
Ornament, Detachable hosiery. S. D. Sanson. 2,667,004, Jan. 26.
Orthopedic table. F. L. Ackerman. 2,667,160, Jan. 26.
Ortho sulfonyl chloride benzoic acid esters, Preparing. O. F. Senn. 2,667,503, Jan. 26.
Overload protector. P. Klamp. 2,667,050, Jan. 26.
Overshoe with gusset and tongue. A. O. Odland. 2,666,996, Jan. 26.
Package of fragile articles. H. Amatel. 2,667,267, Jan. 26.
Packaging and dispensing frozen beverage forming concentrates. J. H. Kauffman. 2,667,422, Jan. 26.
Packaging apparatus and packaging. W. F. Feyrer. 2,667,019, Jan. 26.
Packaging commodities. W. J. Parks. 2,667,421, Jan. 26.
Packaging, storing, and vending frozen concentrates and the like. H. A. Simpson. 2,667,423, Jan. 26.
Paper machinery. H. D. Hyman and E. M. Root. 2,667,106, Jan. 26.
Parachute quick release coupling. F. W. Schlachter. 2,667,376, Jan. 26.
Parking system. V. A. Rigaumont. 2,666,961, Jan. 26.
Periscopic sextant and other instruments. P. F. Everitt and G. R. Jamieson. 2,666,890, Jan. 26.
Petroleum prospecting method. D. M. Updegraff and H. H. Chase. 2,667,444, Jan. 26.
Phenol-formaldehyde-borax condensation product, Water soluble. D. E. Nagy. 2,667,466, Jan. 26.
Photoelectric apparatus. D. J. MacDougall. 2,667,102, Jan. 26.
Photoelectric sensing of permutated tape, Method and apparatus for. R. D. Slayton. 2,667,535, Jan. 26.
Photographic film, Light-sensitive color. P. Raibourn. 2,667,414, Jan. 26.
Pilot control and ignition apparatus, Automatic. M. J. Caparone. 2,667,217, Jan. 26.
Pinning machine, Dowel. K. D. Revell. 2,667,192, Jan. 26.
Pipe: *See*—
Pleasure smoking pipe.
Pipe collar aligning and clamping means. W. Campbell. 2,667,139, Jan. 26.
Pipe cutter with rotary cutter. C. W. Shafer. 2,666,984, Jan. 26.
Pipe-cutting device. C. Muckenfuss. 2,666,983, Jan. 26.
Piston or like cup-shaped article. R. E. Watson, J. R. Boston, and C. Lehmeier. 2,667,390, Jan. 26.
Platinum-containing catalysts, Making. W. R. F. Guyer, J. P. Thorn, and E. Arundale. 2,667,461, Jan. 26.
Pleasure smoking pipe. C. F. Parks. 2,667,175, Jan. 26.
Plethysmograph. H. D. and M. I. Goldberg, and H. I. Lippmann. 2,667,159, Jan. 26.
Pneumatic carrier. R. Goerlich. 2,667,314, Jan. 26.
Polymerization of acetylene to open chain polymers with nickel coordination compound catalysts. E. C. Herrick and J. C. Sauer. 2,667,520, Jan. 26.
Polymerization of butadiene-1,3 compounds. J. S. Sweely. 2,667,471, Jan. 26.
Polyphase transformer system with grounded neutral. A. Boyajian. 2,667,617, Jan. 26.
Positive photolithographic printing foils, Producing. W. Neugebauer and J. Barthenheier. 2,667,415, Jan. 26.
Power and brake controller. H. C. May. 2,667,247, Jan. 26.
Power divider circuit. R. C. Raymond. 2,667,619, Jan. 26.
Power file, Pneumatic. C. T. Skillman. 2,666,978, Jan. 26.
Power plant arrangement for servicing from outside front ends of vehicles. R. H. Duff and R. A. Terry. 2,667,230, Jan. 26.
Precision gauge. S. A. Foster. 2,666,993, Jan. 26.
Prefabricated metal panel joining member. F. Kullmer. 2,667,242, Jan. 26.
Press: *See*—
Moisture-extracting press.
Pressing bust. E. Petrich. 2,667,291, Jan. 26.
Pressure-responsive membrane and movement limiting means therefor. G. L. du Rostu. 2,667,182, Jan. 26.
Prevention of rust. M. P. Kleinholz. 2,667,408, Jan. 26.
Printing method and apparatus. W. C. Huebner. 2,667,121, Jan. 26.
Processing safflower seed. L. M. Christensen. 2,667,499, Jan. 26.
Producing gels. R. G. McChrystal. 2,667,457, Jan. 26.
Producing transparent electrically conducting films. T. K. Young and J. W. McAuley. 2,667,428, Jan. 26.
Producing upright hollow walls of reinforced concrete. L. G. Leanse. 2,666,974, Jan. 26.
Propeller construction having integral hub reservoir. A. N. Allen, Jr. 2,667,229, Jan. 26.
Proportional sampler. A. S. Blum and E. V. Weiner. 2,667,075, Jan. 26.
Protecting device for X-ray apparatus. A. Kuntke and H. Mester. 2,667,587, Jan. 26.
Protector: *See*—
Overload protector.
Pump: *See*—
Lubricant pump. Submersible pump.
Motor-driven pump.
Pump. B. W. Foss and S. L. Hunter. 2,667,125, Jan. 26.
Pump. C. C. S. Le Clair. 2,667,124, Jan. 26.

Pump with stress-relieved diaphragms, Twin diaphragm. F. L. Graner. 2,667,129, Jan. 26.
Purification and stabilization of fruit juices by ion exchange treatment. G. Delmousée, G. V. Austerwell, G. Lemoussu, and J. C. Poupinel. 2,667,417, Jan. 26.
Purification of lactams. R. N. G. Zeegers. 2,667,483, Jan. 26.
Purifying synthetic water-soluble carboxylic acids. A. Steltz, Jr. and R. H. Jacoby. 2,667,502, Jan. 26.
Purse or pocketbook, Combination. S. Knee. 2,667,199, Jan. 26.
Pyridylethyl ethers and making them. L. H. Sutherland and F. E. Cislak. 2,667,491, Jan. 26.
Quick set extension gauge. C. B. Delano. 2,667,190, Jan. 26.
Radar receiver display system. R. P. Haviland. 2,667,575, Jan. 26.
Radio receiver system. E. E. Turner, Jr. 2,667,574, Jan. 26.
Radio seismic system. G. Peterson. 2,667,625, Jan. 26.
Reaction products of N-heterocyclic ammonium thiocyanates and aldehydes. W. H. Hill. 2,667,490, Jan. 26.
Receptacle. W. L. Klein 2,667,198, Jan 26.
Receptacle for snelled fishhooks. O. E. Anderson. 2,667,010, Jan. 26.
Record stack inverter for automatic phonographs and disk record players. P. Dandridge. 2,667,355, Jan. 26.
Recovery of neomycin. U. F. Nager. 2,667,441, Jan. 26.
Recovery of prodigiosin. U. F. Nager. 2,667,492, Jan. 26.
Reel: *See*—
Fishing reel.
Reel adjustment for side delivery rakes. V. O. Hauswirth. 2,667,027, Jan. 26.
Refrigerating system, including defroster drainage receptacle and support therefor. F. B. Anderson. 2,667,042, Jan. 26.
Refrigeration system for mobile application, Absorption. C. L. Keating, Jr. 2,667,040, Jan. 26.
Registration device. W. C. Broekhuysen, E. E. Pohl, and F. J. Roehm. 2,667,020, Jan 26
Regulation of the quantity of fuel in combustion engines. W. D. Bensinger. 2,667,153, Jan. 26.
Regulator system for selective operation of vehicle tops, windows, and other parts, Combined. J. B. Parsons. 2,667,380, Jan. 26.
Removing small quantities of dimethylamine from dimethylacetamide. R. J. Larson. 2,667,451, Jan. 26.
Renovating or resharpening recording styli. C. F. Strandberg. 2,667,434, Jan. 26.
Resiliently supported locomotive seat. R. W. Gundersen. 2,667,209, Jan. 26.
Reversible semiconductor and making it. W. G. Pfann. 2,666,977, Jan. 26.
Ribbon lead construction. E. B. Noel and P. A. Dell. 2,667,595, Jan. 26.
Riboflavin by Ashbya gossypii with cobalt as additive, Production of. R. J. Hickey. 2,667,445, Jan. 26.
Ring: *See*—
Horn ring.
Roller bracket for lawn mowers. J. R. Ingram. 2,667,026, Jan. 26.
Rolling base for trash cans and the like. P. Leystra. 2,667,360, Jan. 26.
Rotary and impact tool. S. Evans. 2,667,144, Jan. 26.
Rotary percussion drill. R. H. Holsing. 2,667,373, Jan. 26.
Rotor construction. G. W. Hardigg. 2,667,327, Jan. 26.
Rotor system for helicopters and control means therefor, Variable speed counter-rotating. I. B. Laskowitz. 2,667,227, Jan. 26.
Rung lock. W. E. Lockett. 2,666,966, Jan. 26.
Safety release device for mechanisms. R. B. Giorgi, E. Klein, F. Unkel, and A. J. Giorgi. 2,667,123, Jan. 26.
Sand washing method and apparatus. R. R. Berg. 2,667,015, Jan. 26.
Scale, Bathroom. M. A. Provenzano. 2,667,387, Jan. 26.
Screw driver, Composite bit. H. G. Fischer and L. R. J. Wendling. 2,667,194, Jan. 26.
Screwworm fly control. L. R. Gardner. 2,667,438, Jan. 26.
Sealing polyethylene films. C. M. Zoubek. 2,667,437, Jan. 26.
Seat: *See*—
Resiliently supported locomotive seat.
Seed wheel for planters, Split. A. V. Raught. 2,667,286, Jan. 26.
Selection system for electrical circuits or equipment. M. den Hertog and C. de Zeeuw. 2,667,540, Jan. 26.
Selective dehalogenation of certain halogenated ketones. P. L. Julian and W. J. Karpel. 2,667,498, Jan. 26.
Self-cleaning fluid filter. C. M. Tursky. 2,667,272, Jan. 26.
Separation of aldehydes from aliphatic hydrocarbons by azeotropic distillation with perfluorocompounds. M. R. Cines. 2,667,450, Jan. 26.
Separation of gases, Method and apparatus for the. S. C. Collins. 2,667,043, Jan. 26.
Separator: *See*—
Mass separator.
Servomotor, Follow-up pressure fluid. H. H. Wheeler. 2,667,146, Jan. 26.
Sewing machine. J. Court. 2,667,133, Jan. 26.
Sewing machine needle bar and take-up operating means. S. R. Bell. 2,667,135, Jan. 26.
Shaker mechanism for dust collector filter bags. W. O. Vedder. 2,667,233, Jan. 26.
Sheet handling apparatus. C. E. Parker. 2,667,259, Jan. 26.
Sheet material, Pressure sensitive adhesive coated. G. J. Goepfert and H. M. Canfield. 2,667,436, Jan. 26.
Shield, Flexible protective. U. Torricelli. 2,666,922, Jan. 26.
Shield, Pleated protective. U. Torricelli. 2,666,924, Jan. 26.
Shingle, Self-sealing. G. W. Clarvoe and L. W. Pomeroy. 2,667,131, Jan. 26.
Shock absorber for railway draft riggings, Friction. H. W. Mulcahy. 2,667,277, Jan. 26.
Shock absorber, Magnetic fluid. J. Rabinow. 2,667,237, Jan. 26.
Shock fender, Articulated. B. Signori. 2,667,374, Jan. 26.
Shock indicating device. E. M. Kane. 2,667,142, Jan. 26.
Shock pad for gun butts. G. C. Weis. 2,667,005, Jan. 26.
Shortstopping of butadiene-styrene emulsion polymerization. R. W. Brown. 2,667,472, Jan. 26.
Sign transfer device. R. M. Chaveneaud. 2,667,628, Jan. 26.
Signal: *See*—
Automatic direction signal.
Signal control system, Vehicle directional and emergency parking. J. R. Hollins. 2,667,627, Jan. 26.
Signal-coupling structure. H. J. Riblet. 2,667,620, Jan. 26.
Signal encoder, Electric. P. Mandel. 2,667,633, Jan. 26.
Signal system, Vehicle directional. A. E. Flemming. 2,667,602, Jan. 26.
Simulated treaded vehicle. L. V. Jacobson. 2,667,349, Jan. 26.
Ski binding, Retractable ball. D. A. Goodman. 2,667,359, Jan. 26.
Slide selector valve. B. N. Ashton, E. V. Barkow, and J. P. Frain. 2,667,181, Jan. 26.
Slider for slide fasteners, Removable. W. I. Grant. 2,666,970, Jan. 26.
Slip cover for upholstered furniture. G. S. and N. I. Krasnov. 2,667,211, Jan. 26.
Slit rubber nib for garment hangers. D. Jacob. 2,667,293, Jan. 26.
Sliver coiling apparatus. W. H. Watson and J. Osbaldeston. 2,666,959, Jan. 26.
Smoke generator. A. Vastola. 2,667,157, Jan. 26.
Snap switch. J. M. Brady. 2,667,546, Jan. 26.
Socket with replaceable by-pass capacitors, Electron tube. D. Satinoff. 2,667,573, Jan. 26.
Spindle engraving and the like machine tools, Multiple. A. D. Gunderson. 2,666,989, Jan. 26.
Spool for typewriter ribbons. S. Hurtado. 2,667,257, Jan. 26.
Spot detector. R. Walz. 2,667,552, Jan. 26.
Spray device, Multiple jet. W. E. Hensel. 2,667,383, Jan. 26.
Spring assembly for trailer trucks, Underslung variable rate. F. A. Jones. 2,667,361, Jan. 26.
Stabilization of fish press liquor. E. P. McFee. 2,667,416, Jan. 26.
Stabilized aqueous solutions of paraaminosalicyclic acid salts. R. G. Douris and J. M. Bory. 2,667,440, Jan. 26.
Stand: *See*—
Extensible iron stand.
Stator for electrical machines. F. H. Gindroz 2,667,591, Jan. 26.
Steering mechanism for automotive vehicles, Power. B. D. Woolley. 2,667,232, Jan. 26.
Stemming and for pitting cherries and the like, Method and apparatus for. J. G. Aguilar and W. A. Cox. 2,667,196, Jan. 26.
Sterilizing apparatus for liquids. J. C. Rhodes. 2,667,584, Jan. 26.
Storage electrode for signal-converting devices. C. S. Szegho and W. O. Reed. 2,667,596, Jan. 26.
Storm sash construction. G. J. Shink. 2,667,245, Jan. 26.
Stretching and stapling device, Combined. W. and J. Spiegel. 2,666,916, Jan. 26.
Stud driving tool. V. R. Erickson. 2,666,915, Jan. 26.
Styrene copolymers. R. R. Morner. 2,667,467, Jan. 26.
Subaqueous supporting structure for working platforms. C. A. D. Bayley. 2,667,038, Jan. 26.
Submersible pump. C. J. Bergh. 2,667,128, Jan. 26.
Suction pickup head unit for seed harvesters. T. E. Conner. 2,667,025, Jan. 26.
Sun bathing apparatus. N. M. Kambourakis. 2,667,169, Jan. 26.
Supersonic inspection device. F. Cunningham, Jr. 2,667,063, Jan. 26.
Support: *See*—
Antenna mast support. Mast support.
Arch support. Suspension roof support.
Extensible article support.
Support. F. G. W. Ullberg, Jr., and E. W. Baird, Jr. 2,667,322, Jan. 26.

Supporting frame for clothes-washing mechanism. C. L. Reitz, E. G. Lipski, and J. F. Young. 2,667,269, Jan. 26.
Surface-active composition. J. Dazzi 2667,506, Jan. 26.
Suspension. N. Wyeth. 2,667,346, Jan. 26.
Suspension roof support. E. M. Thomas, and A. J. Barry 2,667,037, Jan. 26.
Switch: *See*—
Automatic separator cut-out switch. Snap switch.
Electric switch. Thermostatically controlled electric switch.
Switch for use in telephone or like systems, Automatic. C. E. Beale and H. E. Hopley. 2,667,541, Jan. 26.
Switching device, Electronic. J. A. Rajchman. 2,667,599, Jan. 26.
Switching system, Automatic message. W. J. Zenner. 2,667,533, Jan. 26.
Swivel connection for vehicle units. R. G. Hollifield. 2,667,365, Jan. 26.
Swivel coupling for seismic surveying systems. K. W. McLoad. 2,667,531, Jan. 26.
Swivel joint for coaxial transmission lines. W. J. Barnett and C. G. Carlson. 2,667,578, Jan. 26.
Synthetic bristle and its production. F. J. G. Olmer and G. A. Nesty. 2,666,976, Jan. 26.
Syringe. A. E. Smith. 2,667,164, Jan. 26.
Syringe, Disposable. A. E. Smith. 2,667,165, Jan. 26.
Syringe, Unitary. A. E. Smith. 2,667,163, Jan. 26.
System for measuring the prestress of concrete tanks. F. W. Viehe and C. B. Harris. 2,667,068, Jan. 26.
Table: *See*—
Orthopedic table.
Table or the like with normally concealed minor service member. C. L. Liggett. 2,667,396, Jan. 26.
Table structure, Vertically adjustable. J. J. Keal. 2,667,391, Jan. 26.
Table with detachable box. E. W. Sexton. 2,667,392, Jan. 26.
Tape roll for Venetian blinds. M. C. Rutledge. 2,667,220, Jan. 26.
Tappet device of variable tappet length, Reciprocating. F. Müller. 2,667,079, Jan. 26.
Target glider, Nonlifting towed. M. O. McKinney, Jr., and J. P. Campbell. 2,667,351, Jan. 26.
Telegraph repeater. J. A. Mahoney, W. T. Rea, and C. B. Sutliff. 2,667,537, Jan. 26.
Telegraph system, Carrier. L. A. Gardner and J. L. Hysko. 2,667,536, Jan. 26.
Telemetering system for wells. D. W. Blancher. 2,667,626, Jan. 26.
Telephone and memorandum paper holder. W. F. Lapinski and J. L. Scott. 2,667,367, Jan. 26.
Telephone ticketing system, Automatic. E. P. G. Wright and J. Rice. 2,667,538, Jan. 26.
Telescopic device, Resilient. C. M. Frye, F. E. Killner, and A. K. Morris. 2,667,348, Jan. 26.
Television pickup tube. G. B. F. Goff. 2,667,600, Jan. 26.
Temperature and ventilation control apparatus for buses. T. J. Lehane and W. M. Smith. 2,667,336, Jan. 26.
Tension device. N. E. Klein. 2,667,313, Jan. 26.
Tensioning device for elongated flexible material. H. C. Uhlig. 2,667,029, Jan. 26.
Terminal and fanning strip for electrical conductors. H. E. Chapman. 2,667,529, Jan. 26.
Testing instrument, Hardness. J. K. Pocknee. 2,667,067, Jan. 26.
Textile machine. E. L. Dotti. 2,666,958, Jan. 26.
Textile treating materials. D. A. W. Adams and R. H. Wilson. 2,667,458, Jan. 26.
Theophylline composition containing antinauseant factors. B. A. Marty. 2,667,439, Jan. 26.
Thermometer. R. C. Wappner. 2,667,073, Jan. 26.
Thermostat, Hermetically sealed. J. O. Moorehead, E. F. Kurtz, and R. M. Glidden. 2,667,553, Jan. 26.
Thermostatic control for coffee makers. W. B. Wallower. 2,667,565, Jan. 26.
Thermostatic control, Water cooler. J. G. Wehrwein. 2,667,039, Jan. 26.
Thermostatically controlled electric switch. A. R. Lucas. 2,667,612, Jan. 26.
Thiophene derivatives. W. S. Emerson and T. M. Patrick, Jr. 2,667,494, Jan. 26.
Thread feeder for knitting and hosiery machines. B. J. E. Lebocey. 2,667,052, Jan. 26.
Timing apparatus for clocks and watches. T. B. Gibbs. 2,667,061, Jan. 26.
Tire bead loosening device, Lever actuated. D. A. Zaffina. 2,667,212, Jan. 26.
Toaster. W. H. Vogelsberg. 2,667,115, Jan. 26.
Toaster apparatus. B. F. Parr. 2,667,116, Jan. 26.
Tool: *See*—
Rotary and impact tool. Wrecking tool.
Stud driving tool.
Tool for electric conductors, Insulation stripping. D. A. Potter. 2,667,094, Jan. 26.
Toolholer. R. W. Andreasson. 2,667,357, Jan. 26.
Toolholder device for prosthesis apparatus for the upper limbs, to be secured on the stump of an amputated arm. J. Ameline. 2,666,928, Jan. 26.
Tool supporting means. G. W. Schaffer. 2,667,092, Jan. 26.
Tools, Making gear tooth shaving. L. D. Martin. 2,667,090, Jan. 26.
Toothbrush holder. V. V. Ushanoff. 2,667,395, Jan. 26.
Toothbrush holder and toothpaste dispenser. L. S. Cook. 2,667,287, Jan. 26.
Toothbrushes, Making. R. B. Potter. 2,666,954, Jan. 26.
Torsional filter. L. L. Burns, Jr., and W. V. Roberts. 2,667,621, Jan. 26.
Torsional vibration isolating coupling. R. W. Guernsey and R. C. Ulrey. 2,667,049, Jan. 26.
Toy bank. M. I. Glass and J. W. Ehemann. 2,667,011, Jan. 26.
Track bolt tightener. D. C. Nichols. 2,667,100, Jan. 26.
Tractor jack. A. Blaauw and G. W. Findley. 2,667,329, Jan. 26.
Trailer drawbar. D. A. Parker. 2,667,282, Jan. 26.
Transfer case differential mechanism. A. F. Myers. 2,667,088, Jan. 26.
Transfer mechanism for calculating machines. K. Westinger, E. Altenburger, and O. Hirt. 2,667,307, Jan. 26.
Transmission control. H. L. Brock and J. R. Stevenson. 2,667,082, Jan. 26.
Transmission with automatically load responsive range of low gear ratios, Direct drive. C. E. Gregory. 2,667,089, Jan. 26.
Tray dumping mechanism for confectionery machines. G. S. Perkins. 2,667,281, Jan. 26.
Treatment apparatus for cloth and like sheet material and equipped with means for shutting off the treatment fluid. J. Dungler. 2,666,994, Jan. 26.
Trialkyl-1-benzoylpropane-1,2,3-tricarboxylates and preparing same. J. Dazzi. 2,667,504, Jan. 26.
Trifluorochloroethylene, Manufacture of. J. M. Wrightson and A. L. Dittman. 2,667,518, Jan. 26.
Tris quinolinium compounds. H. Andersag, H. Weese, and F. Bossert. 2,667,488, Jan. 26.
Truck, Lift. W. W. MacDonald and J. R. Pomfret. 2,667,283, Jan. 26.
Tube: *See*—
Electron tube. Television pickup tube.
Electronic tube.
Tuning device for signal receivers. W. F. Auerbacher and S. Napolin. 2,667,581, Jan. 26.
Twist control means for yarn winding machines. A. E. Winslow and J. A. Bradshaw. 2,667,030, Jan. 26.
2,4-diaminopteridine aldehydes. H. G. Petering. 2,667,484, Jan. 26.
2,4-diamino pteridine and derivatives. C. K. Cain. 2,667,486, Jan. 26.
2,4-diamino-6-(hydroxyalkyl)pteridines. H. G. Petering. 2,667,485, Jan. 26.
Typographical composing machine. J. H. Hilpman. 2,667,265, Jan. 26.
Unsaturated ethers, Preparing. R. I. Longley, Jr. 2,667,517, Jan. 26.
Upsetting of electrically heated rods. G. Aeckersberg and K. A. Nilgen. 2,667,558, Jan. 26.
Valve: *See*—
Automatic gas inlet valve. Light valve.
Collapsible valve. Slide selector valve.
Gas controlling valve.
Valve actuating mechanism, Compressor inlet. A. N. Gustafson. 2,667,299, Jan. 26.
Valve device, Control. A. J. Bent. 2,667,180, Jan. 26.
Valve for power transmission apparatus, Nonfluttering. H. F. Hobbs and J. A. Thompson. 2,667,145, Jan. 26.
Valve with vacuum breaker, Flush tank. H. F. Smith. 2,667,177, Jan. 26.
Vapor-phase smelting process. J. F. Jordan. 2,667,413, Jan. 26.
Vehicle: *See*—
Simulated treaded vehicle.
Vehicle chassis and motor support thereon. E. S. MacPherson. 2,667,231, Jan. 26.
Vehicle directional and emergency parking signal control system. J. R. Hollins. 2,667,603, Jan. 26.
Venetian blind head enclosure. R. H. Wright. 2,667,219, Jan. 26.
Ventilation system for vehicle bodies. J. W. J. Ackermans. 2,667,113, Jan. 26.
Vibrating retort. D. Petit. 2,667,452, Jan. 26.
Vinyl acetate-N-vinyl-pyrrolidone copolymers. R. R. Morner and R. I. Longley, Jr. 2,667,473, Jan. 26.
Vinyl esters of hydrocarbonsulfonic acids and polymers thereof. J. C. Sauer. 2,667,469, Jan. 26.
Visor for motor vehicles, Extensible. R. J. McCarthy and M. E. Siegert. 2,667,222, Jan. 26.
Voltage selector, Maximum. E. Langberg. 2,667,590, Jan. 26.
Voltage stabilizing apparatus. D. H. Covill. 2,667,614, Jan. 26.
Wagon loading attachment for combines. E. A. Weishaar. 2,667,028, Jan. 26.
Walker, Baby. M. D. Welsh. 2,667,206, Jan. 26.
Water-soluble hydroxyalkyl cellulose ethers, Making. C. W. Tasker. 2,667,481, Jan. 26.
Water-soluble salts of certain cellulose derivatives of improved physical form, Production of. C. H. Rigby. 2,667,482, Jan. 26.
Wax applicator, Shoe polishing. G. C. Jamieson. 2,666,938, Jan. 26.

Wedge-lock means for slidable side jaw wrenches, Friction type. E. R. Anskjaer, S. P. L. Nielsen, and S. E. B. Svendsen. 2,667,096, Jan. 26.
Weight actuated mechanism. P. G. Crisafulli. 2,667,254, Jan. 26.
Welding. P. C. Arnold. 2,667,559, Jan. 26.
Well completion process. G. C. Howard. 2,667,224, Jan. 26.
Wet blasting apparatus. W. I. Gladfelter and C. P. Croft. 2,667,014, Jan. 26.
Window and storm window construction, Combination. J. Kurtz. 2,666,963, Jan. 26.
Window cleaner. J. R. Oisbei. 2,666,941, Jan. 26.
Windshield cleaner declutching mechanism. W. R. Bell and E. C. McRae. 2,667,249, Jan. 26.
Wire anchoring fixture, Lead-in. H. K. Trunnell. 2,667,530, Jan. 26.
Wire severing apparatus. C. Herzog. 2,667,557, Jan. 26.
Wrapper for cigarettes, Crimped. H. A. Lebert. 2,667,170, Jan. 26.
Wrecking tool. D. N. Sewell. 2,666,985, Jan. 26.
Wrench with circumferentially spaced gripping teeth, Tubular cleat. C. C. Manchester. 2,667,095, Jan. 26.
Yarn cutting arrangement in automatic looms. S. Jefferson. 2,667,187, Jan. 26.
Yarn furnishing device. C. F. Manger. 2,667,266, Jan. 26.

CLASSIFICATION OF PATENTS

ISSUED JANUARY 26, 1954

NOTE.—First number = class, second number = subclass, third number = patent number

1— 44.5: 2,666,915
45.6: 2,666,916
49.7: 2,666,917
2— 42: 2,666,918
2,666,919
75: 2,666,920
116: 2,666,921
174: 2,666,922
2,666,923
2,666,924
198: 2,666,925
338: 2,666,926
3— 1: 2,666,927
12.8: 2,666,928
4— 57: 2,666,929
5— 86: 2,666,930
181: 2,666,931
207: 2,666,932
9— 2: 2,666,933
8: 2,666,934
12— 64: 2,666,935
13— 18: 2,667,523
26: 2,667,524
14— 72: 2,666,936
15— 74: 2,666,937
118: 2,666,938
119: 2,666,939
137: 2,666,940
250: 2,666,941
305: 2,666,942
16— 42: 2,666,943
70: 2,666,944
148: 2,666,945
179: 2,666,946
18— 4: 2,666,948
5.7: 2,666,949
14: 2,666,947
17: 2,666,950
19: 2,666,951
26: 2,666,952
58.7: 2,666,953
59: 2,666,954
19— 8: 2,666,955
78: 2,666,956
88: 2,666,957
127: 2,666,958
159: 2,666,959
20— 1.1: 2,666,960
1.13: 2,666,961
16: 2,666,962
55: Re.23,775
2,666,963
57.5: 2,666,964
62: 2,666,965
92: 2,666,966
21— 105: 2,666,967
23— 88: 2,667,403
143: 2,667,404
145: 2,667,405
224: 2,667,406
310: 2,667,407
24— 73: 2,666,968
205.14: 2,666,969
205.15: 2,666,970
221: 2,666,971
243: 2,666,972
2,666,973
25— 154: 2,666,974
155.5: 2,666,975
28— 82: 2,666,976
29— 25.3: 2,666,977
76: 2,666,978
148.2: 2,666,979
155.5: 2,666,980
157.3: 2,666,981
30— 31: 2,666,982
96: 2,666,983
102: 2,666,984
182: 2,666,985
293: 2,666,986
2,666,987
32— 4: 2,666,988
33— 25: 2,666,989
46: 2,666,990
107: 2,666,991
141.5: 2,666,992
147: 2,666,993
34— 45: 2,666,994
34— 164: 2,666,995
36— 50: 2,666,996
76: 2,666,997
38— 77: 2,666,998
107: 2,666,999
40— 125: 2,667,000
126: 2,667,001
129: 2,667,002
41— 1: 2,667,003
34: 2,667,004
42— 74: 2,667,005
43— 35: 2,667,006
42.5: 2,667,007
43.15: 2,667,008
54.5: 2,667,009
57.5: 2,667,010
44— 70: 2,667,408
46— 3: 2,667,011
44: 2,667,012
169: 2,667,013
47— 62: Pl.Pt.1,247
48— 63: 2,667,409
196: 2,667,410
51— 8: 2,667,014
12: 2,667,015
34: 2,667,016
273: 2,667,017
277: 2,667,018
53— 11: 2,667,019
13: 2,667,020
55— 51: 2,667,021
118: 2,667,022
56— 12: 2,667,023
121.4: 2,667,024
126: 2,667,025
249: 2,667,026
377: 2,667,027
473.5: 2,667,028
57—58.86: 2,667,029
93: 2,667,030
60— 30: 2,667,031
39.08: 2,667,032
39.37: 2,667,033
59: 2,667,034
97: 2,667,035
61— 21: 2,667,036
45: 2,667,037
46: 2,667,038
62— 4: 2,667,039
5: 2,667,040
103: 2,667,041
117.8: 2,667,042
123: 2,667,043
2,667,044
125: 2,667,045
135: 2,667,046
64— 1: 2,667,047
4: 2,667,048
19: 2,667,049
29: 2,667,050
65— 53: 2,667,051
66— 132: 2,667,052
134: 2,667,053
68— 21: 2,667,054
22: 2,667,055
241: 2,667,056
70— 143: 2,667,057
150: 2,667,058
456: 2,667,059
71— 2.6: 2,667,411
2.7: 2,667,412
72— 44: 2,667,060
73— 6: 2,667,061
40: 2,667,062
67: 2,667,063
76: 2,667,064
81: 2,667,065
2,667,066
2,667,067
88: 2,667,068
91: 2,667,069
104: 2,667,070
133: 2,667,071
230: 2,667,072
353: 2,667,073
425.4: 2,667,074
2,667,075
74— 2: 2,667,076
74— 5.4: 2,667,077
5.5: 2,667,078
55: 2,667,079
353: 2,667,080
473: 2,667,081
477: 2,667,082
484: 2,667,083
504: 2,667,084
645: 2,667,085
650: 2,667,086
2,667,087
2,667,088
751: 2,667,089
75— 84: 2,667,413
76— 101: 2,667,090
77— 3: 2,667,091
7: 2,667,092
81— 3.3: 2,667,093
9.5: 2,667,094
90: 2,667,095
151: 2,667,096
84— 1.28: 2,667,097
414: 2,667,098
85— 2.4: 2,667,099
50: 2,667,100
86— 46: 2,667,101
88— 14: 2,667,102
40: 2,667,103
61: 2,667,104
90— 16: 2,667,105
92— 20: 2,667,106
38: 2,667,107
93— 79: 2,667,108
95— 2: 2,667,414
5.4: 2,667,415
11: 2,667,109
2,667,110
31: 2,667,111
97—47.63: 2,667,112
98— 2: 2,667,113
99— 7: 2,667,416
105: 2,667,417
118: 2,667,418
150: 2,667,419
171: 2,667,420
2,667,421
2,667,422
2,667,423
182: 2,667,424
287: 2,667,114
331: 2,667,115
391: 2,667,116
418: 2,667,117
100— 97: 2,667,118
101— 125: 2,667,119
218: 2,667,120
219: 2,667,121
102— 21.6: 2,667,122
65.4: 2,667,123
103— 37: 2,667,124
42: 2,667,125
50: 2,667,126
87: 2,667,127
102: 2,667,128
152: 2,667,129
106— 15: 2,667,425
107— 14: 2,667,130
108— 7: 2,667,131
112— 10: 2,667,132
158: 2,667,133
219: 2,667,134
245: 2,667,135
113— 44: 2,667,136
59: 2,667,137
93: 2,667,138
102: 2,667,139
114— 210: 2,667,140
115— 12: 2,667,141
116— 114: 2,667,142
117— 11: 2,667,426
22: 2,667,427
54: 2,667,428
65: 2,667,429
76: 2,667,430
120: 2,667,431
123: 2,667,432
130: 2,667,433
119— 17: 2,667,143
121— 30: 2,667,144
38: 2,667,145
41: 2,667,146
48: 2,667,147
123— 25: 2,667,148
90: 2,667,149
119: 2,667,150
122: 2,667,151
138: 2,667,152
140: 2,667,153
179: 2,667,154
189: 2,667,155
126— 59.5: 2,667,156
2,667,157
73: 2,667,158
128— 2.05: 2,667,159
84: 2,667,160
141: 2,667,161
172.1: 2,667,162
216: 2,667,163
2,667,164
2,667,165
242: 2,667,166
283: 2,667,167
284: 2,667,168
372: 2,667,169
131— 9: 2,667,170
21: 2,667,171
2,667,172
2,667,173
146: 2,667,174
202: 2,667,175
132— 1: 2,667,176
134— 42: 2,667,434
136— 9: 2,667,525
29: 2,667,526
90: 2,667,527
137— 218: 2,667,177
392: 2,667,178
437: 2,667,179
622: 2,667,180
2,667,181
788: 2,667,182
2,667,183
791: 2,667,184
138— 37: 2,667,185
42: 2,667,186
139— 263: 2,667,187
352: 2,667,188
140— 71.6: 2,667,189
143— 174: 2,667,190
144— 9: 2,667,191
31: 2,667,192
142: 2,667,193
309: Re.23,776
145— 32: 2,667,195
50: 2,667,194
146— 17: 2,667,196
253: 2,667,197
148— 11.5: 2,667,435
150— 2.1: 2,667,198
35: 2,667,199
151—41.75: 2,667,200
153— 15: 2,667,201
40: 2,667,202
49: 2,667,203
67: 2,667,204
154— 42: 2,667,205
53.5: 2,667,436
126.5: 2,667,437
155— 22: 2,667,206
39: 2,667,207
2,667,208
51: 2,667,209
53: 2,667,210
182: 2,667,211
157— 1.26: 2,667,212
158— 11: 2,667,213
33: 2,667,214
42.3: 2,667,215
113: 2,667,216
125: 2,667,217
160— 84: 2,667,218
177: 2,667,219
2,667,220
188: 2,667,221
211: 2,667,222
166— 19: 2,667,223
21: 2,667,224
167— 53.2: 2,667,438
55: 2,667,439
58: 2,667,440
65: 2,667,441
71: 2,667,442
93: 2,667,443
169— 31: 2,667,225
170—135.24: 2,667,227
135.4: 2,667,226
135.72: 2,667,228
160.33: 2,667,229
174—17.08: 2,667,528
19: 2,667,529
44: 2,667,530
70: 2,667,531
142: 2,667,532
178— 2: 2,667,533
5.4: 2,667,534
17: 2,667,535
66: 2,667,536
70: 2,667,537
179— 7: 2,667,538
18: 2,667,539
2,667,540
2,667,541
27.54: 2,667,542
78: 2,667,543
180— 64: 2,667,230
2,667,231
79.3: 2,667,232
183— 58: 2,667,233
115: 2,667,234
184— 7: 2,667,235
2,667,236
188— 88: 2,667,237
90: 2,667,238
197: 2,667,239
204: 2,667,240
189— 1: 2,667,241
34: 2,667,242
2,667,243
46: 2,667,244
75: 2,667,245
78: 2,667,246
192— 3: 2,667,247
18: 2,667,248
33: 2,667,249
2,667,250
48: 2,667,251
67: 2,667,252
99: 2,667,253
194— 9: 2,667,254
2,667,255
195—103.5: 2,667,444
114: 2,667,445
196—14.26: 2,667,446
18: 2,667,447
52: 2,667,448
73: 2,667,449
197— 114: 2,667,256
175: 2,667,257
198— 21: 2,667,258
33: 2,667,259
38: 2,667,260
127: 2,667,261
131: 2,667,262
171: 2,667,263
224: 2,667,264
199— 19: 2,667,265
200— 8: 2,667,544
61.31: 2,667,545
67: 2,667,546
115.5: 2,667,547
116: 2,667,548
120: 2,667,549
122: 2,667,550
123: 2,667,551
138: 2,667,552
2,667,553
148: 2,667,554
2,667,555
150: 2,667,556
202— 42: 2,667,450
69: 2,667,451
119: 2,667,452
203— 200: 2,667,266
204— 28: 2,667,453
96: 2,667,454
112: 2,667,455
140: 2,667,456
206— 65: 2,667,267
84: 2,667,268
210— 72: 2,667,269
151: 2,667,270
165: 2,667,271
168: 2,667,272
184: 2,667,273
211— 64: 2,667,274
212— 2: 2,667,275
4: 2,667,276
213— 32: 2,667,277
214— 36: 2,667,278
38: 2,667,279
152: 2,667,280
312: 2,667,281
506: 2,667,282
653: 2,667,283
217— 20: 2,667,284
219— 1: 2,667,557
3: 2,667,558
10: 2,667,559
20: 2,667,560
26: 2,667,561
32: 2,667,562
34: 2,667,563
37: 2,667,564
43: 2,667,565
2,667,566
44: 2,667,567
47: 2,667,568
220— 41: 2,667,285
222— 9: 2,667,286
126: 2,667,287
207: 2,667,288
278: 2,667,289
416: 2,667,290
223— 70: 2,667,291
75: 2,667,292
92: 2,667,293
99: 2,667,294
224— 42.1: 2,667,295
228— 48: 2,667,296
229— 44: 2,667,297
230— 11: 2,667,298
30: 2,667,299
56: 2,667,300
259: 2,667,301
233— 1: 2,667,302
235— 15: 2,667,303
60.31: 2,667,304
61: 2,667,305
137: 2,667,307
240— 8.3: 2,667,569
51.11: 2,667,570
73: 2,667,571
106: 2,667,572
241— 36: 2,667,308
211: 2,667,309
242— 18: 2,667,310
75: 2,667,311
84.5: 2,667,312
155: 2,667,313
243— 35: 2,667,314
244— 83: 2,667,315
102: 2,667,316
248— 43: 2,667,317
2,667,318
120: 2,667,319
147: 2,667,320
183: 2,667,321
243: 2,667,322
298: 2,667,323
250— 16: 2,667,573
20: 2,667,574
27: 2,667,575
2,667,576
33: 2,667,577
33.65: 2,667,578
36: 2,667,579
2,667,580
40: 2,667,581
41.9: 2,667,582
43.5: 2,667,583
45: 2,667,584

250— 61.5: 2,667,585
71: 2,667,586
95: 2,667,587
105: 2,667,588
251— 5: 2,667,324
163: 2,667,325
252— 8.55: 2,667,457
117: 2,667,458
359: 2,667,459
421: 2,667,460
442: 2,667,461
253—39.15: 2,667,326
77: 2,667,327
254— 100: 2,667,328
124: 2,667,329
130: 2,667,330
168: 2,667,331
255— 1.6: 2,667,332
10: 2,667,333
72: 2,667,334
256— 33: 2,667,335
257— 3: 2,667,336
262.2: 2,667,337
259— 3: 2,667,338
108: 2,667,339
260— 17.4: 2,667,462
23.7: 2,667,463
28.5: 2,667,464
40: 2,667,465
51: 2,667,466
63: 2,667,467
79.3: 2,667,468
2,667,469

260— 83.7: 2,667,471
84.3: 2,667,472
85.7: 2,667,473
92.1: 2,667,474
123.7: 2,667,475
147: 2,667,476
175: 2,667,477
211: 2,667,478
211.5: 2,667,479
231: 2,667,480
232: 2,667,481
2,667,482
239.3: 2,667,483
251.5: 2,667,484
2,667,485
2,667,486
256: 2,667,487
286: 2,667,488
2,667,489
294.8: 2,667,490
297: 2,667,491
313: 2,667,492
2,667,493
329: 2,667,494
2,667,495
2,667,496
340.2: 2,667,497
397.4: 2,667,498
412.2: 2,667,499
412.6: 2,667,500
448.2: 2,667,501
450: 2,667,502

260— 470: 2,667,503
475: 2,667,504
485: 2,667,505
512: 2,667,506
513: 2,667,507
540: 2,667,508
552: 2,667,509
561: 2,667,510
2,667,511
586: 2,667,512
604: 2,667,513
2,667,514
609: 2,667,515
614: 2,667,516
2,667,517
653: 2,667,518
671: 2,667,519
678: 2,667,520
683.15: 2,667,521
814: 2,667,522
261— 21: 2,667,340
115: 2,667,341
263— 19: Re.23,777
29: 2,667,342
51: 2,667,343
264— 1: 2,667,344
3: 2,667,345
267— 8: 2,667,346
37: 2,667,347
64: 2,667,348
272— 1: 2,667,349
27: 2,667,350
273—105.3: 2,667,351

273—106.5: 2,667,352
136: 2,667,353
141: 2,667,354
274— 10: 2,667,355
279— 4: 2,667,356
81: 2,667,357
123: 2,667,358
280—11.35: 2,667,359
47.32: 2,667,360
106.5: 2,667,361
158: 2,667,362
425: 2,667,363
432: 2,667,364
434: 2,667,365
482: 2,667,366
281— 6: 2,667,367
285— 6.5: 2,667,368
38: 2,667,369
90: 2,667,370
168: 2,667,371
198: 2,667,372
287— 126: 2,667,373
290— 55: 2,667,589
293— 70: 2,667,374
294— 19: 2,667,375
83: 2,667,376
296— 1: 2,667,377
97: 2,667,378
102: 2,667,379
117: 2,667,380
298— 22: 2,667,381
299— 88: 2,667,382
104: 2,667,383

299— 140: 2,667,384
303— 3: 2,667,385
305— 10: 2,667,386
307— 80: 2,667,590
308— 2: 2,667,387
187.1: 2,667,388
240: 2,667,389
309— 10: 2,667,390
310— 254: 2,667,591
311— 39: 2,667,391
103: 2,667,392
110: 2,667,393
312— 79: 2,667,394
206: 2,667,395
248: 2,667,396
250: 2,667,397
265: 2,667,398
319: 2,667,399
331: 2,667,400
351: 2,667,401
313— 39: 2,667,592
244: 2,667,593
274: 2,667,594
317: 2,667,595
346: 2,667,596
315— 3: 2,667,597
5: 2,667,598
11: 2,667,599
2,667,600
39: 2,667,601
77: 2,667,602
80: 2,667,603
100: 2,667,604

317— 83: 2,667,605
230: 2,667,606
234: 2,667,607
318— 19: 2,667,608
30: 2,667,609
55: 2,667,610
220: 2,667,611
221: 2,667,612
305: 2,667,613
321— 2: 2,667,614
322— 2: 2,667,615
323— 2: 2,667,616
44: 2,667,617
324— 95: 2,667,618
333— 7: 2,667,619
10: 2,667,620
71: 2,667,621
81: 2,667,622
82: 2,667,623
339— 147: 2,667,624
340— 15: 2,667,625
18: 2,667,626
81: 2,667,627
173: 2,667,628
222: 2,667,629
227: 2,667,630
265: 2,667,631
351: 2,667,632
354: 2,667,633
343— 7.7: 2,667,634
2,667,635
17.1: 2,667,636
346— 140: 2,667,402

CLASSIFICATION OF DESIGNS

D 3—26: Des. 171,369
D 7— 4: Des. 171,331
D 8— 1: Des. 171,323
D14— 6: Des. 171,320
D15— 3: Des. 171,364
11: Des. 171,368
D28— 1: Des. 171,325
D33— 3: Des. 171,328
Des. 171,329

D34— 4: Des. 171,322
15: Des. 171,327
Des. 171,363
Des. 171,367
D44—10: Des. 171,324
Des. 171,370
15: Des. 171,326
29: Des. 171,330
D45— 4: Des. 171,353

D45— 4: Des. 171,355
Des. 171,356
9: Des. 171,334
Des. 171,335
Des. 171,337
Des. 171,342
Des. 171,343
Des. 171,345
Des. 171,347

D45— 9: Des. 171,348
Des. 171,349
Des. 171,350
Des. 171,351
10: Des. 171,319
16: Des. 171,321
Des. 171,354
Des. 171,357
Des. 171,358

D45—17: Des. 171,360
19: Des. 171,333
Des. 171,336
Des. 171,338
Des. 171,339
Des. 171,340
Des. 171,341
Des. 171,344
Des. 171,346

D45—19: Des. 171,352
D47— 7: Des. 171,361
D64—11: Des. 171,362
D74— 5: Des. 171,332
D80— 5: Des. 171,365
D87— 2: Des. 171,359
D91— 1: Des. 171,366

U. S. GOVERNMENT PRINTING OFFICE: 0— 1954

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

American Telephone and Telegraph Company has placed 222 patents on the Register as available for licensing on reasonable terms, in addition to the more than 10,000 patents previously registered and listed. A statement of the company's policy in licensing its patents was published in the *Register* section of the OFFICIAL GAZETTE, Feb. 15, 1949.

Inquiries concerning licenses should be addressed to: Patent Licensing Division, Western Electric Company, Inc., 195 Broadway, New York 7, N. Y., acting as agent for the American Telephone and Telegraph Company.

The majority of the patents relate generally to communications and allied fields. The present listing includes Reg. Nos. 52,362 through 52,492. The remaining patents will be listed in the OFFICIAL GAZETTE, Feb. 2, 1954.

(110 Patents. Group 36—19—61—62)

Pat. 2,613,265. Message Numbering Device. Oct. 7, 1952. Reg. No. 52,362.

Pat. 2,613,809. Ticket Sorting Apparatus. Oct. 14, 1952. Reg. No. 52,363.

Pat. 2,614,168. Signal Transmitter. Oct. 14, 1952. Reg. No. 52,364.

Pat. 2,614,175. Translating and Selecting Systems. Oct. 14, 1952. Reg. No. 52,365.

Pat. 2,614,176. Electronic Induction Number Group Translator. Oct. 14, 1952. Reg. No. 52,366.

Pat. 2,614,211. Frequency Controlled Radio Relaying System. Oct. 14, 1952. Reg. No. 52,367.

Pat. 2,614,217. Electronic Distributor. Oct. 14, 1952. Reg. No. 52,368.

Pat. 2,614,222. Wave Generating Circuits. Oct. 14, 1952. Reg. No. 52,369.

Pat. 2,614,632. Recording Numerals in Code. Oct. 21, 1952. Reg. No. 52,370.

Pat. 2,615,955. Impregnated Electrical Condenser. Oct. 28, 1952. Reg. No. 52,371.

Pat. 2,615,971. Pulse Position Dial Receiver Employing Pulse Superposition for Identifying Digits. Oct. 28, 1952. Reg. No. 52,372.

Pat. 2,615,987. Calling Line Identification System. Oct. 28, 1952. Reg. No. 52,373.

Pat. 2,616,060. Cathode Ray Coding Tube. Oct. 28, 1952. Reg. No. 52,374.

Pat. 2,616,971. Automatic Volume Control. Nov. 4, 1952. Reg. No. 52,375.

Pat. 2,616,974. Register Control of Coin Return. Nov. 4, 1952. Reg. No. 52,376.

Pat. 2,616,979. Audible Alarm for Telephone Systems. Nov. 4, 1952. Reg. No. 52,377.

Pat. 2,617,087. Current Supply Apparatus. Nov. 4, 1952. Reg. No. 52,378.

Pat. 2,617,094. Object Location System. Nov. 4, 1952. Reg. No. 52,379.

Re. 23,571. Alarm Signaling System. Nov. 11, 1952. (Original Patent 2,583,088, Jan. 22, 1952.) Reg. No. 52,380.

Re. 23,579. Communication System Employing Pulse Code Modulation. Nov. 11, 1952. (Original Patent 2,538,266, Jan. 16, 1951.) Reg. No. 52,381.

Pat. 2,617,704. Recording System. Nov. 11, 1952. Reg. No. 52,382.

Pat. 2,617,881. Pseudohybrid Microwave Filter. Nov. 11, 1952. Reg. No. 52,383.

Pat. 2,617,885. Frequency Changing Regenerative Pulse Repeater. Nov. 11, 1952. Reg. No. 52,384.

Pat. 2,617,888. Line Lock-Out Arrangement. Nov. 11, 1952. Reg. No. 52,385.

Pat. 2,617,930. Regenerative Pulse Generator. Nov. 11, 1952. Reg. No. 52,386.

Pat. 2,617,959. Electron Discharge Device. Nov. 11, 1952. Reg. No. 52,387.

Pat. 2,617,980. Coder for Pulse Code Modulation Systems. Nov. 11, 1952. Reg. No. 52,388.

Pat. 2,617,981. Coder for Pulse Code Modulation Systems. Nov. 11, 1952. Reg. No. 52,389.

Pat. 2,618,767. Multicathode Gaseous Discharge Device. Nov. 18, 1952. Reg. No. 52,390.

Pat. 2,619,178. Precautionary Circuit. Nov. 25, 1952. Reg. No. 52,391.

Pat. 2,619,528. Selective Signaling System. Nov. 25, 1952. Reg. No. 52,392.

Pat. 2,619,543. Frequency Changing Pulse Repeater Employing Phase Modulation. Nov. 25, 1952. Reg. No. 52,393.

Pat. 2,619,545. Telephone Calling Line Identification and Recording System. Nov. 25, 1952. Reg. No. 52,394.

Pat. 2,619,546. Party Line Identification System. Nov. 25, 1952. Reg. No. 52,395.

Pat. 2,619,549. Toll Supervisory Operator's Telephone Circuit. Nov. 25, 1952. Reg. No. 52,396.

Pat. 2,619,626. Current Supply Apparatus. Nov. 25, 1952. Reg. No. 52,397.

Pat. 2,619,630. Regulating Apparatus. Nov. 25, 1952. Reg. No. 52,398.

Pat. 2,619,631. Regulating Apparatus. Nov. 25, 1952. Reg. No. 52,399.

Pat. 2,620,399. Telephone Switching System Employing Repetitive Impulsing. Dec. 2, 1952. Reg. No. 52,400.

Pat. 2,620,402. Telephone Substation Circuit With Automatic Compensation for Length of Line. Dec. 2, 1952. Reg. No. 52,401.

Pat. 2,261,295. Electrical Wave Producing Circuit. Dec. 9, 1952. Reg. No. 52,402.

Pat. 2,622,153. Multiplex Telegraph System Utilizing Electronic Distributors. Dec. 16, 1952. Reg. No. 52,403.

Pat. 2,623,108. Fault Signaling System. Dec. 23, 1952. Reg. No. 52,404.

Pat. 2,623,114. Pulse Counting and Registering Circuits. Dec. 23, 1952. Reg. No. 52,405.

Pat. 2,623,120. Microwave Filter. Dec. 23, 1952. Reg. No. 52,406.

Pat. 2,623,123. Carrier Telegraph System. Dec. 23, 1952. Reg. No. 52,407.

Pat. 2,623,198. Tunable Magnetron. Dec. 23, 1952. Reg. No. 52,408.

Pat. 2,623,948. Multiplex Telegraph Receiver Employing an Electronic Distributor. Dec. 30, 1952. Reg. No. 52,409.

Pat. 2,624,036. Circuit Protection Apparatus. Dec. 30, 1952. Reg. No. 52,410.

Pat. 2,624,799. Range Finder for Telegraph Selectors. Jan. 6, 1953. Reg. No. 52,411.

Pat. 2,625,328. Automatic Code Translating System. Jan. 13, 1953. Reg. No. 52,412.

Pat. 2,625,577. Switchboard Plug. Jan. 13, 1953. Reg. No. 52,413.

Pat. 2,625,587. Automatic Bridge. Jan. 13, 1953. Reg. No. 52,414.

Pat. 2,625,601. Automatic Telegraph Switching System. Jan. 13, 1953. Reg. No. 52,415.

Pat. 2,625,604. Quantized Pulse Transmission With Few Amplitude Steps. Jan. 13, 1953. Reg. No. 52,416.

Pat. 2,625,609. Telegraph Repeater. Jan. 13, 1953. Reg. No. 52,417.

Pat. 2,625,610. Relay Permutation-Type Switching System. Jan. 13, 1953. Reg. No. 52,418.

Pat. 2,625,614. Envelope Delay Scanning System. Jan. 13, 1953. Reg. No. 52,419.

Pat. 2,626,448. Treating Selenium Rectifiers. Jan. 27, 1953. Reg. No. 52,420.

Pat. 2,626,990. Guided Wave Frequency Range Transducer. Jan. 27, 1953. Reg. No. 52,421.

Pat. 2,626,992. Signal Delay Device. Jan. 27, 1953. Reg. No. 52,422.

Pat. 2,626,994. Multiplex Telegraph System. Jan. 27, 1953. Reg. No. 52,423.

Pat. 2,627,027. Non-Reflective Radio Refractor. Jan. 27, 1953. Reg. No. 52,424.

Pat. 2,627,039. Gating Circuits. Jan. 27, 1953. Reg. No. 52,425.

Pat. 2,627,053. Cold Cathode Gaseous Discharge Devices and Circuits Therefor. Jan. 27, 1953. Reg. No. 52,426.

Pat. 2,627,550. Adjustable Impedance Transformer. Feb. 3, 1953. Reg. No. 52,427.

Pat. 2,627,574. Radio Repeater Having a Pulse Regenerator. Feb. 3, 1953. Reg. No. 52,428.

Pat. 2,627,645. Manufacturing Condensers. Feb. 10, 1953. Reg. No. 52,429.

Pat. 2,627,986. Transferring and Stacking Apparatus. Feb. 10, 1953. Reg. No. 52,430.

Pat. 2,628,283. Semiautomatic Telephone Switching System Arranged for Selective AC or DC Key Pulsing. Feb. 10, 1953. Reg. No. 52,431.

Pat. 2,628,340. Voltage and Current Regulation. Feb. 10, 1953. Reg. No. 52,432.

Pat. 2,628,550. Ventilator for Telephone Booths. Feb. 17, 1953. Reg. No. 52,433.

Pat. 2,629,006. Amplifier Circuit Having a Reactive Load. Feb. 17, 1953. Reg. No. 52,434.

Pat. 2,629,010. Television System Having Reduced Transmission Band Width. Feb. 17, 1953. Reg. No. 52,435.

Pat. 2,629,011. Television System Having Reduced Transmission Band Width. Feb. 17, 1953. Reg. Nov. 52,436.

Pat. 2,629,016. Automatic Toll Ticketing System. Feb. 17, 1953. Reg. No. 52,437.

Pat. 2,629,017. Speech Transmission System. Feb. 17, 1953. Reg. No. 52,438.

Pat. 2,629,020. Coordinate Selecting and Lock-Out Circuit for Interpolated Speech Transmission. Feb. 17, 1953. Reg. No. 52,439.

Pat. 2,629,021. Coordinate Switching and Lock-Out Circuit in Interpolated Speech Receiving System. Feb. 17, 1953. Reg. No. 52,440.

Pat. 2,629,771. Band-Width Reduction System. Feb. 24, 1953. Reg. No. 52,441.

Pat. 2,629,772. Reduction of Phase Distortion. Feb. 24, 1953. Reg. No. 52,442.

Pat. 2,629,773. Phase Adjuster. Feb. 24, 1953. Reg. No. 52,443.

Pat. 2,629,779. Signal Transmission System. Feb. 24, 1953. Reg. No. 52,444.

Pat. 2,629,782. Reduction of Phase Distortion. Feb. 24, 1953. Reg. No. 52,445.

Pat. 2,629,783. Telephone Circuit. Feb. 24, 1953. Reg. No. 52,446.

Pat. 2,629,785. Frequency Selective Amplifier. Feb. 24, 1953. Reg. No. 52,447.

Pat. 2,629,841. Transversal Electric Wave Filter. Feb. 24, 1953. Reg. No. 52,448.

Pat. 2,629,842. Constant Voltage Glow Discharge Control Device. Feb. 24, 1953. Reg. No. 52,449.

Pat. 2,630,482. Tuned Vibrating Reed Selective Circuit. Mar. 3, 1953. Reg. No. 52,450.

Pat. 2,630,486. Low Frequency Restoration Circuit. Mar. 3, 1953. Reg. No. 52,451.

Pat. 2,630,493. Carrier Telegraph System. Mar. 3, 1953. Reg. No. 52,452.

Pat. 2,630,496. Two-Way Polar Telegraph Repeater. Mar. 3, 1953. Reg. No. 52,453.

Pat. 2,630,506. Relay. Mar. 3, 1953. Reg. No. 52,454.

Pat. 2,630,564. Common Timing Circuit. Mar. 3, 1953. Reg. No. 52,455.

Pat. 2,631,945. Cold Cathode and Method of Preparing Same. Mar. 17, 1953. Reg. No. 52,456.

Pat. 2,632,048. Light Valve for Television System. Mar. 17, 1953. Reg. No. 52,457.

Pat. 2,632,051. Balancing Network for Loaded Transmission Lines. Mar. 17, 1953. Reg. No. 52,458.

Pat. 2,632,052. Transmission Control in Two-Way Signaling System. Mar. 17, 1953. Reg. No. 52,459.

Pat. 2,632,054. Hub Telegraph Repeater. Mar. 17, 1953. Reg. No. 52,460.

Pat. 2,632,057. Signal Transmission. Mar. 17, 1953. Reg. No. 52,461.

Pat. 2,632,058. Pulse Code Communication. Mar. 17, 1953. Reg. No. 52,462.

Pat. 2,632,101. Reduction of Noise in Transmission Systems. Mar. 17, 1953. Reg. No. 52,463.

Pat. 2,632,147. Communication System Employing Pulse Code Modulation. Mar. 17, 1953. Reg. No. 52,464.

Pat. 2,633,159. Fabricating Cathode Assemblies. Mar. 31, 1953. Reg. No. 52,465.

Pat. 2,633,492. Guided Wave Frequency Range, Frequency Selective and Equalizing Structure. Mar. 31, 1953. Reg. No. 52,466.

Pat. 2,633,495. Electronic Code Pulse Receiving Circuit. Mar. 31, 1953. Reg. No. 52,467.

Pat. 2,633,498. Selecting and Two-Way Translating System. Mar. 31, 1953. Reg. No. 52,468.

Pat. 2,633,502. Mechanical Communication Switchboard. Mar. 31, 1953. Reg. No. 52,469.

Pat. 2,633,534. Variable Frequency Oscillator. Mar. 31, 1953. Reg. No. 52,470.

Pat. 2,633,550. Multicathode Gaseous Discharge Device. Mar. 31, 1953. Reg. No. 52,471.

TRANSISTORS AND TRANSISTOR CIRCUITS
(Group 36—19—61—62)

Re. 23,563. Control of Impedance of Semiconductor Amplifier Circuits. Oct. 14, 1952. (Original Patent 2,585,077, Feb. 12, 1952.) Reg. No. 52,472.

Pat. 2,614,140. Trigger Circuit. Oct. 14, 1952. Reg. No. 52,473.

Pat. 2,614,141. Counting Circuit. Oct. 14, 1952. Reg. No. 52,474.

Pat. 2,614,142. Trigger Circuit. Oct. 14, 1952. Reg. No. 52,475.

Pat. 2,617,865. Semiconductor Amplifier and Electrode Structures Therefor. Nov. 11, 1952. Reg. No. 52,476.

Pat. 2,619,414. Surface Treatment of Germanium Circuit Elements. Nov. 25, 1952. Reg. No. 52,477.

Pat. 2,620,448. Transistor Trigger Circuits. Dec. 2, 1952. Reg. No. 52,478.

Pat. 2,622,211. Stabilized Transistor Trigger Circuit. Dec. 16, 1952. Reg. No. 52,479.

Pat. 2,622,212. Bistable Circuit. Dec. 16, 1952. Reg. No. 52,480.

Pat. 2,622,213. Transistor Circuit for Pulse Amplifier Delay and the Like. Dec. 16, 1952. Reg. No. 52,481.

Pat. 2,623,102. Circuit Element Utilizing Semiconductive Materials. Dec. 23, 1952. Reg. No. 52,482.

Pat. 2,623,103. Semiconductor Signal Translating Device. Dec. 23, 1952. Reg. No. 52,483.

Pat. 2,623,105. Semiconductor Translating Device Having Controlled Gain. Dec. 23, 1952. Reg. No. 52,484.

Pat. 2,627,575. Semiconductor Translating Device. Feb. 3, 1953. Reg. No. 52,485.

Pat. 2,629,672. Making Semiconductive Translating Devices. Feb. 24, 1953. Reg. No. 52,486.

Pat. 2,629,800. Semiconductor Signal Translating Device. Feb. 24, 1953. Reg. No. 52,487.

Pat. 2,629,833. Transistor Trigger Circuits. Feb. 24, 1953. Reg. No. 52,488.

Pat. 2,629,834. Gate and Trigger Circuits Employing Transistors. Feb. 24, 1953. Reg. No. 52,489.

Pat. 2,631,356. Making P-N Junctions in Semiconductor Materials. Mar. 17, 1953. Reg. No. 52,490.

Pat. 2,632,062. Semiconductor Transducer. Mar. 17, 1953. Reg. No. 52,491.

Pat. 2,632,146. Transistor Frequency Modulation. Mar. 17, 1953. Reg. No. 52,492.

TRADE-MARKS

OFFICIAL GAZETTE, JANUARY 26, 1954

[VOL. 678. NO. 4]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 623,363. O-Cel-O, Inc., Buffalo, N. Y. Filed Jan. 9, 1952.

"Water breathing"

For Cellulose Sponges.
Claims use since Sept. 18, 1951.

Ser. No. 640,031. American Gilsonite Company, Salt Lake City, Utah. Filed Dec. 26, 1952.

GILSAPAVE

Applicant claims ownership of Registrations Nos. 412,820, 144,545, and 574,613.
For Uintahite, an Asphaltic Material.
Claims use since Dec. 11, 1952.

Ser. No. 641,467. The Ruberoid Co., Bound Brook, N. J., and New York, N. Y. Filed Jan. 28, 1953.

RED CLOVER

Applicant claims ownership of Registration No. 360,499.
For Asbestos Fiber.
Claims use since on or about Aug. 19, 1947.

CLASS 5

ADHESIVES

Ser. No. 637,016. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Filed Oct. 22, 1952. (Sec. 2f.)

Westinghouse

Applicant claims ownership of Registrations Nos. 103,016, 103,017, and others.
For Resorcinol Formaldehyde, Dextrin, Phenolic, and Vinyl Type Adhesives.
Claims use since during or about 1935.

Ser. No. 645,541. Caram Manufacturing Company, Monrovia, Calif. Filed Apr. 20, 1953.



For Adhesives and Cements Having a Natural or a Synthetic Rubber Base Used as a Solvent Between Metal or Wood Joints and Wherever a Water Insoluble Temporary or Permanent Bond Is Required as in Securing Paper to Paper, Leather to Leather, Attaching Labels, Securing in Place Rugs, Carpets, and Pads Therefor.
Claims use since Dec. 1, 1945.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 636,671. Agrashell, Inc., Los Angeles, Calif. Filed Oct. 16, 1952.

SLIPRITE

For Vegetable Shell Dusting Powders for Use During Shaving of Hides in the Tanning Industry.
Claims use since Nov. 9, 1951.

Ser. No. 649,708. Heyden Chemical Corporation, New York, N. Y. Filed July 2, 1953.

TME

Applicant claims ownership of Registration No. 431,961.
For Trimethylolethane.
Claims use since on or about June 23, 1953.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 647,651. Domenico Patriarca, Cranston, R. I. Filed May 25, 1953.

Ciga-freshna

For Humidifiers for Cigars.
Claims use since Mar. 30, 1953.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 641,554. Iver Johnson's Arms & Cycle Works, Fitchburg, Mass. Filed Jan. 30, 1953. (Sec. 2f.)

SEALED EIGHT

Applicant claims ownership of Registration No. 298,750.
For Revolvers.
Claims use since June 1, 1931.

Ser. No. 647,665. W. J. Taylor, doing business as Taylor Fireworks Company, Kansas City, Kans. Filed May 25, 1953.

ALLIGATOR



For Fireworks.
Claims use since on or about Jan. 1, 1948.

CLASS 10

FERTILIZERS

Ser. No. 639,774. Fedil C. Porter, doing business as Gulf Coast Organic & Minerals Co., Pharr, Tex. Filed Dec. 19, 1952.

FERTILAID



For Organic Soil Conditioner and Fertilizer.
Claims use since Oct. 1, 1952.

Ser. No. 648,057. Smith Equipment and Supply Co., Chicago, Ill. Filed June 1, 1953.

FERTIL-ADE

The term "Fertil" is disclaimed apart from the mark as shown.
For Plant Food (Fertilizer).
Claims use since Oct. 13, 1949.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 645,121. A. B. Dick Company, Niles, Ill. Filed Apr. 13, 1953. (Sec. 2f.)

A·B·DICK

Applicant claims ownership of Registration No. 554,177.
For Materials and Supplies for Spirit and Hectograph Duplication—Namely, Typewriter Ribbons, Spirit and Hectograph Carbon Sheets With a Protective Coating.
Claims use since Mar. 27, 1952.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 621,865. The Champion Brick Company, Baltimore, Md. Filed Nov. 30, 1951.



No claim is made to the representation of a brick and "Champion of Them All" apart from the mark as shown.
For Building Bricks.
Claims use since 1900.

Ser. No. 629,979. United States Plywood Corporation, New York, N. Y. Filed May 20, 1952.

TRUGRAIN

Applicant claims ownership of Registration No. 443,339.
For Laminated Resinous Material, With or Without a Backing, Formed Into Flat Sheets and Panels of a Variety of Sizes for All Types of Fabricating, Building, and Constructional Purposes, Such as, Wall Panels, Dadoes, Bar and Counter Tops, Kitchen Counters, Table and Furniture Tops, Sink Tops, Splash Boards, and Like Uses.
Claims use since approximately October 1951.

Ser. No. 637,659. Lawton Engineering and Manufacturing Company, Detroit, Mich. Filed Nov. 5, 1952.



For Plastic Articles—Namely, Siding, Roofing, and Flooring To Be Used in Buildings and Also in Silos, Tanks, and the Like.
Claims use since Aug. 11, 1952.

Ser. No. 638,066. Cordova Machine & Foundry Co., Inc., Cordova, Tenn. Filed Nov. 14, 1952.

VERCO

For Louvered Doors, Louvered Windows, and Glass Jalousies.
Claims use since Aug. 15, 1952.

Ser. No. 638,364. Johns-Manville Corporation, New York, N. Y. Filed Nov. 20, 1952.

Trantex

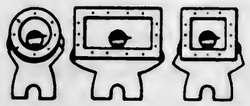
For Plastic Tape Adapted Particularly for Application to Metal Pipes To Prevent Their Corrosion.
Claims use since on or about Sept. 4, 1952.

Ser. No. 645,803. Raymond L. Hasse, Spokane, Wash. Filed Apr. 23, 1953.



The mark comprises a circular block of solid green color having a cross sectional view of a wall opening with the casing applied shown in green with intervening white lines and having a simulated ribbon extending angularly across the face of the mark terminating in the circular block and also outlined with green lines. The phrase "It Always Fits" is disclaimed apart from the mark as shown.
For Plastic Casings Having the Nature of Finish Trim for Wall Openings Such as Doors and Windows.
Claims use since Jan. 2, 1953.

Ser. No. 646,833. Wasco Flashing Company, Cambridge, Mass. Filed May 11, 1953.



The mark comprises a representation of three men each carrying skylight units. The representation of the goods is disclaimed apart from the mark as shown.
For Plastic Domes, Skylight Units, Ceiling Dome Units, Combination Ceiling Dome and Skylight Units, Skylight and Ceiling Dome for Constructional Purposes.
Claims use since June 1, 1951.

Ser. No. 650,291. United States Gypsum Company, Chicago, Ill. Filed July 14, 1953.

PERLOFILL

For Gypsum Plaster.
Claims use since Aug. 4, 1952.

Ser. No. 650,366. Gunnison Homes, Incorporated, New Albany, Ind. Filed July 16, 1953. (Sec. 2f.)

Gunnison

For Pre-Fabricated Homes.
Claims use since 1938.

Ser. No. 650,425. The Crown Rock Asphalt Company, Elmhurst, Ill. Filed July 17, 1953.

CROWN

Applicant claims ownership of Registration No. 313,704.
For Mixture of Various Size Crushed, Washed, Dried Stone, Gravel or Slag Combined With Binders Produced From Resins, Coal Tars, and Asphalts, for Use as a Paving Material or as a Patching Material for Black-Top, Concrete, or Allied Materials; and a Sealing Material in the Nature of a Dispersion of Coal-Tar Pitches Combined With Clays and Wetting Agents for Preserving and Beautifying Black-Top Paving, Masonry Surfaces, and Metal Surfaces.
Claims use since Aug. 26, 1952.

Ser. No. 650,437. General Wall Products, Inc., Cleveland, Ohio. Filed July 17, 1953.

Carra-Plas

For Plastic Wall Tile.
Claims use since June 26, 1952.

Ser. No. 651,009. Pabco Products Inc., San Francisco, Calif. Filed July 28, 1953.

Colorok

For Asbestos Cement Siding and Asbestos Cement Shingles.
Claims use since Mar. 4, 1953.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 602,638. John A. Roebling's Sons Company, Trenton, N. J. Filed Aug. 23, 1950. (Sec. 2f as to "Roebling.")

JAR ROEBLING

The mark consists of the monogram "JAR" and the word "Roebling" appearing in a circular design. Applicant claims ownership of Registrations Nos. 41,844, 63,853, and others.

For Fastenings, Fittings, and Attachments for Wire, Wire Strand or Rope—Namely, Clamps, Clips, Grommets, Hooks, Shackles, Sockets, Thimbles, and Turnbuckles.

Claims use since December 1941.

Ser. No. 606,027. National Glaco Chemical Corporation, Chicago, Ill. Filed Nov. 7, 1950.

GLAZON

For Processing Equipment Having Surfaces Treated With Coating Composition To Facilitate Release of Processed Product Therefrom—Namely, Base Metal Bake Pans.

Claims use since Mar. 21, 1950.

Ser. No. 614,500. Gas & Oil Industry Laboratories, Incorporated, Irvington, N. J. Filed May 29, 1951. (Sec. 2f.)

NOHUM

For Ball Check Valves.

Claims use since June 2, 1945.

Ser. No. 631,171. E. T. Nash Merchandise Company, New York, N. Y. Filed June 13, 1952.

NASHCO

For Decorated and Undecorated Metal Serving Trays, Metal Coasters, Metal Flower Pots, Metal Silent Butlers.

Claims use since on or about Sept. 24, 1951.

Ser. No. 632,152. Century Engineering Corporation, Cedar Rapids, Iowa. Filed July 5, 1952.

CENTURY

For Nozzles, Nozzle Extensions, Fittings, Strainers, and Valves, for Sprayers.

Claims use since Nov. 30, 1948.

Ser. No. 634,331. Kohler Co., Kohler, Wis. Filed Aug. 22, 1952. (Sec. 2f.)

KOHLER OF KOHLER

Applicant claims ownership of Registrations Nos. 94,999, 121,305, and others.

For Plumbing Fixtures—Namely, Bath Tubs, Sitz Baths, Foot Baths, Shower Receptors, Lavatories, Wash Sinks, Drinking Fountains, Kitchen Sinks, Sinks and Trays, Laundry Trays, Pack Trays for Preparing Plaster of Paris for Casts, Urinals, Service Sinks, and Service Sumps, All of Enameled Ironware, and Lavatories, Closet Tanks, Urinal Tanks, Service Sinks, Laboratory Sinks, Drinking Fountains, Cuspidors, and Sacraria, All of Vitreous China.

Claims use since June 1921.

Ser. No. 642,283. Kinzee Products, Inc. Company, Westwood, N. J. Filed Feb. 16, 1953.

KINZEE KITCHENS

The outline representation of the oval name-plate and the word "Kitchen" are disclaimed apart from the mark.

For Combined Sinks and Cabinets for Use in Kitchens.

Claims use since Aug. 1, 1946.

Ser. No. 648,405. Joaquim S. Jardim, Newark, N. J. Filed June 8, 1953.

J.S.Jardim SILVER SCREEN

No claim is made to the expression "J. S. Jardim" and to the representation of the goods, apart from the mark shown on the drawing.

For Frying Pan Covers.

Claims use since May 4, 1953.

Ser. No. 649,552. The Warwick Company, Lincoln Park, R. I. Filed June 29, 1953.

FWC

For Pipe Fittings Comprising L's, T's, and Flanges.

Claims use since Nov. 1, 1952.

Ser. No. 651,608. Hal Weir McPherson, Chicago, Ill. Filed Aug. 10, 1953.

THE Champion

For Water Closet or Toilet.

Claims use since Feb. 1, 1952.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 637,022. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Filed Oct. 22, 1952. (Sec. 2f.)

Westinghouse

Applicant claims ownership of Registrations Nos. 103,016, 103,017, and others.

For High Conductivity, Heat Resistant, Creep Resistant, Brazing, and Magnetic Alloys; Metal Welding Rods; Ferrous and Non-Ferrous Base Castings; Tool Steels; and Electric Contact Metals.

Claims use since 1927.

Ser. No. 651,623. The Stark Foundry Company, Canton, Ohio. Filed Aug. 10, 1953.

STARKALOY

For Gray and White Iron Castings.

Claims use since January 1947.

Ser. No. 651,624. The Stark Foundry Company, Canton, Ohio. Filed Aug. 10, 1953.

STARKMETAL

For Gray and White Iron Castings.

Claims use since November 1946.

Ser. No. 651,625. The Stark Foundry Company, Canton, Ohio. Filed Aug. 10, 1953.

STEANITE

For Gray and White Iron Castings.

Claims use since January 1951.

CLASS 15

OILS AND GREASES

Ser. No. 637,017. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Filed Oct. 22, 1952. (Sec. 2f.)

Westinghouse

Applicant claims ownership of Registrations Nos. 103,016, 103,017, and others.

For Lubricating Oils, and Lubricating Greases.

Claims use since on or about January 1921.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 651,032. All-Steel Equipment Inc., Aurora, Ill. Filed July 29, 1953.

STYLITE TAN

The applicant disclaims the word "Tan" apart from the mark as shown.

For Flat Paints, Enamels, and Lacquers.

Claims use since Apr. 20, 1950.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 635,923. Materna Products, Inc., Memphis, Tenn. Filed Sept. 29, 1952.

Ped-i-derm

For Medicinal Preparation for Use as Foot Balm.

Claims use since July 1, 1952.

Ser. No. 636,053. Harry R. Lynem, Indianapolis, Ind. Filed Sept. 30, 1952.

MENYL MEYL

For Medicine for the Treatment of Asthma.

Claims use since Oct. 31, 1951.

Ser. No. 640,163. Luitpold-Werk Chemisch-Pharmazeutische Fabrik, Munich-Obersendling, Germany. Filed Dec. 30, 1952.

Asem

Applicant claims ownership of German Registration No. 153,607, dated July 18, 1911.

For Hemostatic.

Ser. No. 641,648. Walker Laboratories, Inc., Mount Vernon, N. Y. Filed Feb. 2, 1953.

ADCETS

For Vitamin Preparation.

Claims use since Sept. 13, 1950.

Ser. No. 648,265. Victor Schutzbank, trading as Easy Foot Research Laboratories, Brooklyn, N. Y. Filed June 4, 1953.

EASYFOOT

For Preparation for the Treatment of Athlete's Foot, Irritation Between the Toes, and Foul Smelling and Sweating Feet, Sold in Powder Form To Be Used for Baths and as an Ointment To Be Applied Externally.
Claims use since January 1934.

Ser. No. 650,967. Barnes-Hind Laboratories, San Francisco, Calif. Filed July 28, 1953.

GENAMINE

For Eye Wash.
Claims use since May 1, 1953.

Ser. No. 651,398. E. Fougera & Co., Inc., New York, N. Y. Filed Aug. 5, 1953.

SCLERASOL

For Preparation Used for Sclerosing Varicosities.
Claims use since Mar. 19, 1953.

Ser. No. 651,519. Charles H. Mitchell, Toledo, Ohio. Filed Aug. 7, 1953.

SORBUSOL

For Liniment.
Claims use since June 10, 1953.

Ser. No. 651,702. Guardian Chemical Corporation, Long Island City, N. Y. Filed Aug. 12, 1953.

SORISOL

For Medicine in Dry Pulverulent Form To Be Dissolved in Water To Form a Solution for the Treatment by External Application of Psoriasis and Other External Disorders.
Claims use since July 13, 1953.

Ser. No. 652,103. Chase Chemical Company, Newark, N. J. Filed Aug. 21, 1953.

THERAPAN

For High Potency Therapeutic Vitamins.
Claims use since March 1950.

CLASS 19

VEHICLES

Ser. No. 650,463. Joseph J. Szakacs, doing business as Custom Hydrocraft, San Diego, Calif. Filed July 17, 1953.

SeaCat

For Sail and Motor Powered Catamaran Type Boats and Structural Parts Thereof.
Claims use since Apr. 1, 1953.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 624,916. Bamag-Meguin Aktiengesellschaft, Berlin, Germany. Filed Jan. 31, 1952.

Bamag

Applicant claims ownership of German Registration No. 41,438, dated Dec. 21, 1899.
For Electrolysers for Purification of Gases and Liquids; Electrolysers Used in the Production of Potassium Nitrate and Sulfuric Acid, Electrolysers Used in the Treatment of Water, Gas, and Coal, and Electrolysers for Decomposing Electrolyte Solutions, Particularly Production of Oxygen and Nitrogen by Decomposing Water.

Ser. No. 644,155. American Machine & Foundry Company, New York and Cheektowaga, N. Y. Filed Mar. 25, 1953.

AMF

Applicant claims ownership of Registrations Nos. 168,740, 194,535, and others.
For Electrical and/or Electro-Mechanical Pinfall Signalling or Indicating Units for Use With Bowling Pin Spotting Machines and/or Bowling Alleys; Electrical Foul Detecting and/or Signalling Devices and Parts Therefor for Use With Bowling Pin Spotting Machines and/or Bowling Alleys in Detecting and Signalling the Occurrence of Fouls; and Masking Units Having Electrical Components for Use With Bowling Pin Spotting Machines and/or Bowling Alleys.
Claims use since approximately Aug. 22, 1945.

Ser. No. 649,779. Frenchtown Porcelain Company, Trenton, N. J. Filed July 3, 1953.

ALMANOX

Applicant claims ownership of Registration No. 573,985.
For Ceramic Electrical Insulating Compounds in Molded Form.
Claims use since Oct. 16, 1951.

Ser. No. 650,408. American Automatic Devices Co., Chicago, Ill. Filed July 17, 1953.

KING BEE

Applicant claims ownership of Registration No. 207,827.
For Marker Lamps of Several Colors and of the Type for Mounting on the Sides, Front, and Rear of Vehicles To Indicate Direction of Travel.
Claims use since May 1, 1921.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 637,644. Carthage Mills Incorporated, Carthage, Cincinnati, Ohio. Filed Nov. 5, 1952.

O'Shuffl

For Shuffle Board Game Sets Consisting of Flexible Game Boards, Shovels, and Disks.
Claims use since Sept. 2, 1952.

Ser. No. 639,495. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

Applicant claims ownership of Registration No. 249,261.
For Playing Cards, Dolls, Doll Carriages, Dominoes, Dice, Checkers, Games—Namely, Card Games, Parlor Games Played With a Board and Detachable Pieces, Amusement Games in Which a Ball Is Projected on an Inclined Playing Surface, Toy Sewing Kits and Knitting, Embroidery and Similar Educational Needlework Pastime Games for Children; Sleds and Toys—Namely, Toy Building Blocks, Toy Wagons, Tumbling Toys, Dolls, Puppets, Disguise Kits, and Toy Horns.
Claims use since 1867.

Ser. No. 644,076. John E. Strauss, St. Paul, Minn. Filed Mar. 23, 1953.

FINALIST

For Figure Skates.
Claims use since Dec. 20, 1952.

Ser. No. 648,440. Sunset Line & Twine Co., Petaluma, Calif. Filed June 8, 1953.

Sunset

For Fishing Lines.
Claims use since Aug. 30, 1950.

Ser. No. 650,522. Carl F. Lehnkering, Shullsburg, Wis. Filed July 20, 1953.

ED-U-PLA-TION

For Toy Blocks for Mathematical Instruction.
Claims use since May 11, 1953.

Ser. No. 653,157. Mr. Boston Distiller Inc., Boston, Mass. Filed Sept. 14, 1953.

Russian Roulette

For Spinner Dial Game Device.
Claims use since July 21, 1953.

Ser. No. 653,876. Rat-A-Gat, King, Wis. Filed Sept. 28, 1953.

-RAT-A-GAT-

For Wooden Toy Machine Guns.
Claims use since July 15, 1953.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 550,584. Clemson Bros., Inc., Middletown, N. Y. Filed Feb. 26, 1948. (Sec. 2f.)

Quality

Applicant claims ownership of Registrations Nos. 66,342, 243,803, and 255,608.
For Power and Hand Hack Saw Blades and Flexible Back Metal Cutting Band Saws.
Claims use since on or about June 15, 1907.

Ser. No. 603,596. The Oliver Corporation, Chicago, Ill. Filed Sept. 15, 1950.

Hydra-lectric

Disclaimer is made to the word "Lectric" apart from the mark shown in the drawing.

For Fluid Motor or Hydraulic Lift Mechanism Having Electrical Controls Associated Therewith for Use in Connection With the Raising, Lowering, or Adjusting of Implements Attached to or Associated With Tractors.

Claims use since Oct. 20, 1949.

Ser. No. 616,186. Nordberg Manufacturing Company, Milwaukee, Wis. Filed July 6, 1951.

Supair Thermal

No claim is made for the word "Thermal" apart from the mark as shown.

For Internal Combustion Engines.

Claims use since June 15, 1951.

Ser. No. 619,435. Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Filed Oct. 1, 1951.

ROLL-AWAY

For Moldboards of Excavating, Land Leveling, and Road Grading Machines.

Claims use since Aug. 1, 1950.

Ser. No. 635,963. Glenzip Company, Cleveland, Ohio. Filed Sept. 30, 1952.

GLENZIP

The term "Zip" is disclaimed apart from the mark as shown.

For Zipper Repair Tools of the Pinching Type and Parts Thereof.

Claims use since Oct. 1, 1948.

Ser. No. 639,062. M. I. S. A. L.-Macchine Industriali Societa Accomandita Leto, Milan, Italy. Filed Dec. 5, 1952.

CERVINIA

For Milling Machines.

Claims use since about Jan. 1, 1942.

Ser. No. 645,823. Miller Motor Company, Melrose Park, Ill. Filed Apr. 23, 1953. (Sec. 2f.)

Miller

For Air and Hydraulic Cylinders, Fluid Pressure Boosters, Fluid Accumulators, and Air Hoists.

Claims use since December 1944.

Ser. No. 646,205. The DoAll Company, Des Plaines, Ill. Filed Apr. 30, 1953.

Claw Tooth

The descriptive word "Tooth" and the representation of the goods are disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 429,595.

For Saw Bands.

Claims use since Aug. 10, 1950.

Ser. No. 646,889. New England Carbide Tool Co. Inc., Cambridge, Mass. Filed May 12, 1953.

Cyclo-Core

No claim is made to the word "Core" apart from the mark as shown. Applicant claims ownership of Registration No. 561,150.

For Rotary Drill Bit.

Claims use since May 1951.

Ser. No. 646,890. New England Carbide Tool Co. Inc., Cambridge, Mass. Filed May 12, 1953.

Thunder-Core

No claim is made to the word "Core" apart from the mark as shown. Applicant claims ownership of Registration No. 550,857.

For Power-Hammer Bit.

Claims use since April 1952.

Ser. No. 646,891. New England Carbide Tool Co. Inc., Cambridge, Mass. Filed May 12, 1953.

Thunder-twist

No claim is made to the word "Twist" apart from the mark as shown. Applicant claims ownership of Registration No. 550,857.

For Power-Hammer Bit.

Claims use since March 1952.

Ser. No. 649,726. Oliver Iron and Steel Corporation, Pittsburgh, Pa. Filed July 2, 1953. (Sec. 2f.)

BERRY

For Hydraulic Motors, Air Motors, Fluid Compressors, Hydraulic Power Transmissions, and Hydraulic Pumps.

Claims use since Feb. 27, 1947.

Ser. No. 650,186. Joudat J. Katiba, Lakeland, Fla. Filed July 13, 1953.

FLYING SAUCER

For Gasoline Powered Lawn Mowers.

Claims use since Apr. 17, 1953.

Ser. No. 650,328. Sewing Machines Sales Corp., New York, N. Y. Filed July 15, 1953.

Southern Pride

For Sewing Machines.

Claims use since Dec. 10, 1948.

Ser. No. 650,338. American Import Corporation, New York, N. Y. Filed July 16, 1953.

Nu-Stag

For Table and Kitchen Cutlery—Namely, Carving Sets, Steak Sets, Knife and Fork Sets.

Claims use since June 1, 1952.

Ser. No. 650,339. American Import Corporation, New York, N. Y. Filed July 16, 1953.

Pearlex

For Table and Kitchen Cutlery—Namely, Carving Sets, Steak Sets, Knife and Fork Sets, Bread Knives, Pie Knives, Cake Knives, Grapefruit Knives, Cheese Knives, Tidbit Forks.

Claims use since June 1, 1952.

Ser. No. 650,381. Morse Sewing Machine and Supply Corp., New York, N. Y. Filed July 16, 1953.

DEBUTANTE

For Sewing Machines.

Claims use since Jan. 20, 1953.

Ser. No. 650,566. Michigan Power Shovel Company, Benton Harbor, Mich., assignors to Clark Equipment Company, a corporation of Michigan. Filed July 17, 1953. (Sec. 2f.)

MICHIGAN

For Power Shovels and Cranes.

Claims use since Mar. 25, 1930.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 625,399. California Optical Leather Co., Castro Valley, Calif. Filed Feb. 23, 1952.

PADICASES

For Spectacle Cases.

Claims use since Nov. 5, 1951.

Ser. No. 641,911. Crown Cinema Corporation, New York, N. Y. Filed Feb. 9, 1953.



For Motion Picture Films, Which Have Records of Sound, Words, and/or Music Thereof, and Motion Picture Films Adapted for Synchronization With Sound, Words, and/or Music Records.

Claims use since May 18, 1952.

Ser. No. 647,416. Haller, Raymond and Brown, Inc., State College, Pa. Filed May 21, 1953.

RAFAX

For Electronic-Optical Systems—Namely, Bandwidth Compressors Utilized in Conjunction With Radar Installations.

Claims use since May 1, 1948.

Ser. No. 647,557. The Stanley Works, New Britain, Conn. Filed May 22, 1953. (Sec. 2f.)

READ RITE

For Rules.

Claims use since about Oct. 20, 1929.

Ser. No. 649,810. National Screen Service Corporation, New York, N. Y. Filed July 3, 1953.

PERMA-VIEWERS

No claim is made to the word "Viewers" except as used in conjunction with the other features of the mark.

For Light-Polarising Spectacles for Use in Viewing Stereoscopic Motion Pictures.

Claims use since June 24, 1953.

Ser. No. 649,842. Technicolor Motion Picture Corporation, Hollywood, Calif. Filed July 3, 1953.

TECHNISCOPE

For Motion Picture Film.
Claims use since June 19, 1953.

Ser. No. 649,859. Zenith Radio Corporation, Chicago, Ill. Filed July 3, 1953.

ZENITH

For Motion Picture Films.
Claims use since April 1949.

Ser. No. 649,960. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed July 7, 1953.

TEKTOLOG

For Electrically Operated Indicating, Recording, and Controlling Instruments for Indicating and/or Recording Conditions of and/or Automatically Controlling an Operation in Response to Fluctuations of a Variable Condition Which Can Be Translated to an Electrical Signal and Having a Servomotor Controlled by Circuitry Responsive to Such Electrical Signal.
Claims use since Dec. 1, 1952.

Ser. No. 650,122. Remington Rand Inc., New York, N. Y. Filed July 10, 1953.

Photocharger

For Photographing Cameras and Parts Thereof, Particularly Machines for Photographically Recording Library Charge Cards on Sensitized Paper and Photographic Paper.
Claims use since May 19, 1948.

Ser. No. 650,123. Remington Rand Inc., New York, N. Y. Filed July 10, 1953.

PLASTIPHOTER

For Combined Photographic Printer and Dryer, Particularly a Printer and Dryer Adapted for Photographically Printing and Drying Planographic Printing Plates.
Claims use since June 17, 1952.

Ser. No. 650,374. The Lionel Corporation, New York, N. Y. Filed July 16, 1953.

LINEX

For Cameras.
Claims use since July 9, 1953.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 640,791. Firma Gebruder Junghans A. G., Schramberg, Schwarzwald, Germany. Filed Jan. 15, 1953.

TRIVOX

Applicant claims ownership of German Registration No. 628,352, dated Oct. 16, 1952.
For Clocks and Parts Thereof, Alarm Clocks, Signal Clocks, and Watches.

Ser. No. 650,271. Norman M. Morris Corporation, New York, N. Y. Filed July 14, 1953.

Synchrobeat

For Watches and Clocks.
Claims use since Jan. 2, 1953.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 647,470. Albert Beyersdorfer, Plainville, Mass. Filed May 22, 1953.

ANGELUS

For Money Clips, Chains, Tie Clips, Key Chains, Crosses, Crucifixes, and Medals Made Wholly or in Part of Precious Metal, Identification Bracelets, Class Pins, Lapel Crosses, Pendants, Brooches, Bracelets, Finger Rings, Lockets, and Rosaries.
Claims use since December 1952.

Ser. No. 649,251. Rogers, Lunt & Bowlen Company, doing business as Lunt Silversmiths, Greenfield, Mass. Filed June 23, 1953.

Eloquence

For Knives, Forks, Spoons, Butter Spreaders, Butter Picks, Cake Separators, Ladles, Sugar Tongs, Servers, and Carving Sets, All of Sterling Silver.
Claims use since May 21, 1953.

Ser. No. 650,406. Albert Adler, Philadelphia, Pa. Filed July 17, 1953.



For Jewelry—Namely, Earrings, Bracelets, Necklaces, Pendants, Lapel Pins, Finger Rings, and Cuff Links Made Wholly or Partly of Gold or Sterling Silver.
Claims use since June 22, 1953.

Ser. No. 650,497. Gemex Company, Union, N. J. Filed July 20, 1953.

MAIN LINE

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since June 19, 1953.

Ser. No. 650,555. Towle Manufacturing Company, Newburyport, Mass. Filed July 20, 1953.

RoseSolitaire

No registration rights are claimed in the word "Rose" apart from the mark in its entirety.
For Sterling Silver and Sterling Silver Mounted Flatware and Table Cutlery.
Claims use since July 6, 1953.

Ser. No. 651,097. Federated Department Stores, Inc., doing business under the name and style of Wm. Filene's Sons Company, Cincinnati, Ohio, and Boston, Mass. Filed July 30, 1953.

FASHIONATIONS

For Women's Costume Necklaces.
Claims use since June 23, 1953.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 636,481. Industrial Tape Corporation, North Brunswick Township, Middlesex County, N. J., now by change of name Permacel Tape Corporation. Filed Oct. 10, 1952.

PERMACEL

Applicant claims ownership of Registrations Nos. 338,238, 433,551, 511,583, and 535,567.
For Tack Cloth Cut to Size for Collecting Dirt and Dust Prior to Finishing or Refinishing the Surfaces of Automobiles, Furniture, and the Like and for Cleaning and Polishing Purposes.
Claims use since Sept. 9, 1952.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 625,998. Olin Industries, Inc., East Alton, Ill. Filed Mar. 5, 1952.

SUPER

Applicant claims ownership of Registrations Nos. 159,784 and 500,223.
For Chinaware—Namely, Dishes, Plates, Cups, Saucers, Bowls, and Platters.
Claims use since Aug. 3, 1950.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 644,949. Ansul Chemical Company, Marinette, Wis. Filed Apr. 9, 1953.

ANSUL

For Drier Unit for Refrigerating Systems.
Claims use since Feb. 20, 1953.

Ser. No. 649,155. Interstate Textile Co., Morrisville, Pa. Filed June 22, 1953.

INTERSTATE

For Filter Cloths.
Claims use since January 1940.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 627,489. Cel-U-Dex Corporation, Brooklyn, N. Y. Filed Apr. 3, 1952. (Sec. 2f.)

DIV-I-DEX

For Metal Separators for Holding Files or Papers Separately or in Drawers or Filing Cabinets.
Claims use since Mar. 1, 1937.

Ser. No. 628,926. Diamond Bros. Company, doing business under the name and style of Fashion-Fame Furniture Co., Trenton, N. J. Filed Apr. 30, 1952.

FASHION-FAME

The word "Fashion" is disclaimed apart from the mark as shown.
For Living Room Furniture and Dual Purpose Furniture—Namely, Upholstered Chairs, Sofas, Sofa Beds, and Studio Couches.
Claims use since Feb. 15, 1950.

Ser. No. 631,559. The Mengel Company, Louisville, Ky. Filed June 21, 1952.

MENGEL American Bounty

No claim is made to the name "Mengel" nor to the word "American" apart from the mark shown in the drawing.
Applicant claims ownership of Registrations Nos. 432,916, 515,030, and 532,588.
For Case Goods—Namely, Dressers, Bureaus, Highboys, Chests of Drawers, and Chiffoniers.
Claims use since Oct. 2, 1950.

Ser. No. 639,228. Lynch Manufacturing Co., Seattle, Wash. Filed Dec. 9, 1952.

Duracharm

For Upholstered Furniture—Namely, Chairs, Rockers, Davenports, Sofa Beds, and Studio Couches; Sectional Furniture Consisting of Chairs, Love Seats, and/or Sofa Beds, Sold in Groups; and Mattresses and Box Springs.
Claims use since Oct. 31, 1951.

Ser. No. 645,428. New York Feather Co. Inc., New York and Brooklyn, N. Y. Filed Apr. 16, 1953.

TERRY-FOAM

No claim is made to the word "Foam" apart from the mark as shown.
For Pillows, Cushions, and Throw Pillows.
Claims use since Feb. 2, 1953.

Ser. No. 647,645. Nurserytyme Products, Brooklyn, N. Y. Filed May 25, 1953.

Nurserytyme

Applicant claims ownership of Registrations Nos. 417,475 and 578,392.
For Crib Mattresses, Playpen Pads, Baby Carriage Pads, Bassinette Pads, High Chair Pads, Crib Bumper Pads, and Nursery Seat Pads.
Claims use since Dec. 15, 1944.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 649,499. Eureka Williams Corporation, Bloomington, Ill. Filed June 29, 1953.

JET-O-MATIC

For Heating Apparatus—Namely, Oil Burners.
Claims use since May 21, 1953.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 645,587. Oteco Equipment Company, Houston, Tex. Filed Apr. 20, 1953.

OTECO

For Oil Field Specialties—Namely, Valve Cap and Cylinder Head Gaskets, and Machinery Packing Such as Swivel Wash Pipe Packing, Flange Gaskets, Piston Rod Packing, Pump Liner Packing, Steam Piston Rod Packing, and Boiler Manhole and Boiler Handhole Gaskets, and Sheet Packing Material for Making Gaskets and Packing.
Claims use since Aug. 17, 1950.

Ser. No. 650,586. Flexible Steel Lacing Company, Chicago, Ill. Filed July 21, 1953.

ALLIGATOR

Applicant claims ownership of Registrations Nos. 84,225, 137,223, and others.
For Conveyor and Transmission V Belting Made of Cotton Fabric and Rubber.
Claims use since June 25, 1953.

Ser. No. 651,731. Perfect Circle Corporation, Hagerstown, Ind. Filed Aug. 12, 1953. (Sec. 2f.)

PERFECT CIRCLE

Applicant claims ownership of Registrations Nos. 315,621, 317,614, and others.
For Bearing Adjusters in the Form of Shims.
Claims use since Sept. 5, 1946.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 625,734. "Ghost" Products Co., Springfield, Oreg. Filed Feb. 29, 1952.

GHOST

For Drum Beaters.
Claims use since July 23, 1949.

Ser. No. 629,462. H. & A. Selmer, Inc., Elkhart, Ind. Filed May 9, 1952. (Sec. 2f.)

MIDGET

For Twirling Batons.
Claims use since August 1940.

Ser. No. 636,296. Loew's Incorporated, New York, N. Y., and elsewhere. Filed Oct. 7, 1952.

LION

Applicant claims ownership of Registrations Nos. 516,143 and 516,144.
For Grooved Disk Phonograph Records.
Claims use since Sept. 30, 1952.

Ser. No. 641,141. Jetter Music Pub. Co., Huntington, N. Y. Filed Jan. 22, 1953.

Carnation

For Grooved Phonograph Records.
Claims use since Jan. 5, 1953.

CLASS 37

PAPER AND STATIONERY

Ser. No. 653,661. Acme Paper Company, Inc., Memphis, Tenn. Filed Oct. 16, 1953.

Surprize

For Looseleaf Fillers, Tablets, and Writing Paper.
Claims use since Oct. 8, 1953.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 631,166. Marine Publications, Inc., Newport Beach, Calif. Filed June 13, 1952.

SPEED and SPRAY

For Monthly Magazine.
Claims use since Apr. 29, 1952.

Ser. No. 641,361. Warwick Typographers, Inc., St. Louis, Mo. Filed Jan. 26, 1953. (Sec. 2f as to "Warwick.")

WARWICK PHOTOTYPE

In this application, applicant makes no claim to the word "Phototype" apart from the mark shown.
For Lithographic Reproduction Proofs.
Claims use since Jan. 20, 1953, as to the mark shown; and since October 1922 as to "Warwick."

CLASS 39

CLOTHING

Ser. No. 636,044. B. Wollman & Bros. Inc., New York, N. Y. Filed Oct. 1, 1952.

Creole Mink

Applicant disclaims any rights in and to the generic word "Mink" apart from the mark as shown.
For United States Mutation Ranch Mink Coats, Stoles, Jackets, and Neckpieces.
Claims use since Sept. 11, 1952.

Ser. No. 639,120. I. B. Kleinert Rubber Company, New York, N. Y. Filed Dec. 6, 1952.

MESS JACKET

For Feeding Bib.
Claims use since Nov. 13, 1952.

Ser. No. 646,735. Cluett, Peabody & Co. Inc., Troy, N. Y. Filed May 11, 1953.

Arrow Night

For Pajamas Intended for the Use of Men, Women, Boys, and Girls.
Claims use since Jan. 12, 1953.

CLASS 43

THREAD AND YARN

Ser. No. 648,476. Beaunit Mills, Inc., New York, N. Y. Filed June 9, 1953.

Cuprofino

Applicant claims ownership of Registration No. 297,708.
For Thread and Yarn.
Claims use since Oct. 31, 1928.

Ser. No. 651,043. Coats & Clark Inc., New York, N. Y. Filed July 29, 1953.

TRUMPET

Applicant claims ownership of Registration No. 84,760.
For Thread.
Claims use since on or about Jan. 28, 1932.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 637,681. American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952. (Sec. 2f.)

SAROT

For Endoscopic Instruments—Namely, Thoracoscopes and Components Thereof.
Claims use since October 1947.

Ser. No. 637,685. American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952. (Sec. 2f.)

SCOTT

For Endoscopic Instruments—Namely, Resectoscopes and Components Thereof.
Claims use since Feb. 28, 1947.

Ser. No. 637,687. American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952. (Sec. 2f.)

HENDRICKSON

For Endoscopic Instruments—Namely, Lithotrites and Components Thereof, Urethral Catheters, and Surgical Drains.
Claims use since 1946.

Ser. No. 637,691. American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952. (Sec. 2f.)

SIMONS

For Endoscopic Instruments—Namely, Nasopharyngoscopes and Components Thereof and Surgical Forceps.
Claims use since 1946.

Ser. No. 637,692. American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952. (Sec. 2f.)

O'BRIEN

For Endoscopic Instruments—Namely, Thoracoscopes and Components Thereof.
Claims use since September 1932.

Ser. No. 637,693. American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952. (Sec. 2f.)

POOL

For Endoscopic Instruments—Namely, Myeloscopes and Components Thereof.
Claims use since June 1938.

Ser. No. 637,973. American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952. (Sec. 2f.)

BUERGER

For Endoscopic Instruments—Namely, Cystoscopes and Urethroscopes and Components Thereof; and Accessories for Use With Such Instruments—Namely, Dilating Olives and Bougies.
Claims use since 1907.

Ser. No. 637,981. American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 13, 1952. (Sec. 2f.)

LEWIS

For Apparatus for Measuring and Recording Pressures Produced Within Body Passages or Cavities, Such as the Bladder, and Ureteral Dilators.
Claims use since April 1939.

Ser. No. 639,920. C. Lloyd Claff, doing business under the name of The Autotherm Co., Randolph, Mass. Filed Dec. 23, 1952.

Autotherm

The mark shown in the drawing is lined for shading.
For Insulated Sleeve-Like Apparatus Within Which an Infected Limb or Other Member Is Received for Treatment by Endogenous Heat.
Claims use since May 1950.

Ser. No. 651,389. Davol Rubber Company, Providence, R. I. Filed Aug. 5, 1953.

SANI-CAP

Applicant claims ownership of Registration No. 244,079.
For Protective Covers To Be Placed Over Nursing Bottle Nipples To Maintain for Them, Through the Period of Refrigeration or Storage, the Sterility Created by Terminal Sterilization.
Claims use since July 24, 1953.

Ser. No. 651,390. Davol Rubber Company, Providence, R. I. Filed Aug. 5, 1953.

TERMI-CAP

No claim is made to the exclusive right to the use of the word "Cap" apart from the mark shown.
For Protective Covers To Be Placed Over Nursing Bottle Nipples To Maintain for Them, Through the Period of Refrigeration or Storage, the Sterility Created by Terminal Sterilization.
Claims use since May 20, 1953.

Ser. No. 651,886. The Aro Equipment Corporation, Bryan, Ohio. Filed Aug. 17, 1953.

ARO

Applicant claims ownership of Registration No. 434,827.
For Oxygen Regulators for Aviators' Use at High Altitudes.
Claims use since July 27, 1953.

Ser. No. 652,057. The Continental Pharmacal Company, Cleveland, Ohio. Filed Aug. 20, 1953.

CP

For Blood Transfusion Sets Comprising Bottles, Drip Vials, Filters, Tubing, and Needles.
Claims use since Apr. 30, 1952.

Ser. No. 652,169. William A. Coles, Philadelphia, Pa. Filed Aug. 24, 1953.

Radioswrg

For Cauteries and Surgical Instrument Knives.
Claims use since September 1952.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 633,668. Florasynth Laboratories, Inc., New York, N. Y. Filed Aug. 9, 1952.

CLOUDINOL "N"

For Concentrated Extracts Used for Flavoring Syrups Which Are Used for Flavoring Soft Drink Beverages.
Claims use since Jan. 6, 1935.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 603,950. Albers Milling Company, Portland, Oreg., and Los Angeles, Calif. Filed Sept. 25, 1950.

MANNA

Applicant claims ownership of Registration No. 302,619.
For Feed for All Farm Animals and Fowls—Namely, Feed for Stock Cattle, Dairy Cattle, Horses, Pigs, Sheep, Goats, Rabbits, Mink, Fox, Chinchillas, Chickens, and Turkeys, Comprised of Grains, Concentrates, and Minerals.
Claims use since Aug. 31, 1950.

Ser. No. 619,120. Baker Boy Bakeries, Inc., Los Angeles, Calif. Filed Sept. 10, 1951.



The drawing is lined for red and black.
For Old Fashioned Confection Roll and for Confection Roll Cake Crumbs.
Claims use since Feb. 10, 1949.

Ser. No. 620,073. Central Cooperative Turkey Producers, Ellsworth, Iowa. Filed Mar. 9, 1951.

GOLDEN BREST

For Eviscerated Turkeys.
Claims use since Oct. 1, 1949.

Ser. No. 620,620. Philip R. Park, Inc., San Pedro, Calif. Filed Oct. 29, 1951.

MAXIMAR

Applicant claims ownership of Registrations Nos. 324,423 and 324,422.
For Livestock and Poultry Feed Product Composed Primarily of Machine Dehydrated Kelp, Sardine Fish Meal, Condensed Fish Solubles, Fish Glandular Hydrolysate, Dried Fish Solubles Product (Ribo Fish Flour), Dehydrated Alfalfa Meal, Choline Chloride, Vitamin A and D Feeding Oil, Riboflavin Supplement, Manganese Sulphate, and Sodium Acetate.
Claims use since March 1951.

Ser. No. 623,750. Burrus Mills, Incorporated, doing business under the name and style of Burrus Feed Mills and under the name and style of Liberty Mills, Fort Worth and San Antonio, Tex. Filed Jan. 18, 1952.

HEARTS DELIGHT LABOR-SAVER

For Range Feeds in Concentrated Form.
Claims use since Sept. 13, 1951.

Ser. No. 624,030. Frank H. Fleer Corporation, Philadelphia, Pa. Filed Jan. 24, 1952.



Applicant claims ownership of Registrations Nos. 222,935, 241,500, and others.
For Chewing Gum.
Claims use since Dec. 31, 1928.

Ser. No. 624,031. Frank H. Fleer Corporation, Philadelphia, Pa. Filed Jan. 24, 1952.



The word "Bubble" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 222,935, 241,500, and others.
For Chewing Gum.
Claims use since Dec. 31, 1928.

Ser. No. 624,262. Central Soya Company, Inc., Fort Wayne, Ind. Filed Jan. 30, 1952.

EGGLAC

For Feed for Laying Hens To Increase Egg Production.
Claims use since Sept. 1, 1944.

Ser. No. 629,162. Granny Goose Foods, doing business under the name and style The Spudette Company, Oakland, Calif. Filed May 3, 1952.

Spudettes

For Shoestring Potatoes.
Claims use since May 8, 1933.

Ser. No. 629,942. Halter's Pretzels, Inc., Canton, Ohio. Filed May 20, 1952.

Oven King

For Pretzels and Pretzel Sticks.
Claims use since May 5, 1952.

Ser. No. 632,104. Swift & Company, Chicago, Ill. Filed July 2, 1952.

POW-R-PAC

No registration rights are claimed herein for the letters "Pac" apart from the mark shown in the drawing, but applicant waives none of its common law rights therein.
For Cattle Feed.
Claims use since Feb. 26, 1952.

Ser. No. 632,885. Hebrew National Kosher Sausage Company, Inc., Brooklyn, N. Y. Filed July 22, 1952. (Sec. 2f as to "Hebrew National.")



Applicant claims ownership of Registrations Nos. 359,368 and 365,358.
For Corned Beef, Tongue, Salami, Bologna, Frankfurters, Pastrami.
Claims use since Jan. 1, 1948, on the mark shown; and since Feb. 15, 1906, as to "Hebrew National."

Ser. No. 633,264. McIntyre Bros., Kansas City, Mo. Filed July 30, 1952.



For Fresh Mushrooms, Lettuce, and Tomatoes.
Claims use since November 1937.

Ser. No. 634,420. North American Creameries, Inc., Minneapolis, Minn. Filed Aug. 25, 1952.

arvilla

For Dairy Products—Namely, Ice Cream, Butter, Fluid Cream, Fluid Milk, Fluid Buttermilk, Chocolate Flavored Milk, Cottage Cheese, Shell Eggs and Frozen Eggs; Oleomargarine, and Frozen Foods—Namely, Ice Cream Cake Roll.
Claims use since Sept. 1, 1943.

Ser. No. 637,421. Hills of Westchester, Washington, D. C. Filed Oct. 27, 1952.



For Bakery Products and Confections—Namely, Cakes, Pastries, Cookies, and Bread.
Claims use since June 24, 1948.

Ser. No. 637,522. Southern Dairies, Inc., Washington, D. C. Filed Oct. 27, 1952.



Exclusive right to use of the descriptive term "Choc-O" is disclaimed apart from the mark as shown.
For Heavy Liquid Chocolate Flavored Milk Drink Sold as a Food Beverage.
Claims use since Oct. 4, 1952.

Ser. No. 639,763. The Mainland Corporation, Stepney, Conn. Filed Dec. 19, 1952.

Chef Breton

Applicant disclaims the word "Breton" apart from the mark as shown.
For Dehydrated Food Products—Namely, Onion Soup Mix, Spaghetti Sauce Mix, Chile con Frijoles Mix, Curry Mix, Tomato Soup Mix, and Tomato Cocktail Mix.
Claims use since September 1951.

Ser. No. 642,600. Armour and Company, doing business under the trade style Drummond Packing Co., Chicago, Ill. Filed Feb. 24, 1953.

ARBUTUS

For Ham, Bacon, Picnics, Frankfurters, Salami, Luncheon Sausage, Pork Sausage, Polish Sausage, Bologna, Braunschweiger, Frozen Veal Sweetbreads, Frozen Veal Brains, Frozen Veal Livers, Lard, Corned Beef, and Cheese.
Claims use since 1903.

Ser. No. 642,604. Armour and Company, doing business under the trade style Drummond Packing Co., Chicago, Ill. Filed Feb. 24, 1953.



For Ham, Bacon, Picnics, Frankfurters, Salami, Luncheon Sausage, Pork Sausage, Polish Sausage, Bologna, Braunschweiger, Frozen Veal Sweetbreads, Frozen Veal Brains, Frozen Veal Livers, Lard, Corned Beef.
Claims use since August 1948.

Ser. No. 643,643. Cherry-Burrell Corporation, Chicago, Ill. Filed Mar. 16, 1953.

VARA

For Chocolate Flavored Drink Base for Commercial Manufacture of Chocolate Milk.
Claims use since 1932.

Ser. No. 643,703. Naamloose Vennootschap Biscuitfabriek Patria, Amsterdam, Netherlands. Filed Mar. 16, 1953.

PATRIA

The word "Patria" in the Latin language means "My Country" or "Homeland." Applicant claims ownership of Dutch Registration No. 79,819, dated Aug. 30, 1943.
For Biscuits.

Ser. No. 645,094. American Feed Company, Inc., New York, N. Y. Filed Apr. 13, 1953.



The representation of the map of the United States is disclaimed apart from the mark as shown.
For Animal Feed for Cows, Dogs, Chickens, and Turkeys.
Claims use since Jan. 2, 1953.

Ser. No. 645,211. W. T. Young Foods Inc., Lexington, Ky. Filed Apr. 13, 1953.



Applicant disclaims exclusive rights to the representation of the peanuts shown in the drawing.
For Peanut Butter and Shelled and Unshelled Peanuts, Salted Peanuts.
Claims use since Jan. 28, 1953.

Ser. No. 645,257. The Postilion, Fond du Lac, Wis. Filed Apr. 14, 1953.

POSTILION'S

For Hard Sauces Containing Fresh Egg Yolks, Sugar, Fresh Creamery Butter, Imported French Brandy, and Cuban Rum; and Vinegar Sauces Containing Imported Pure Olive Oil, Tomato, Garlic, Imported Spanish Wine Vinegar, Spices, Herbs, and Mustard.
Claims use since June 1, 1950.

Ser. No. 645,275. Washington Pacific Sales, Inc., Seattle, Wash. Filed Apr. 14, 1953.

TABLE TOPS

For Frozen Fruits and Vegetables—Namely, Baby Lima Beans, French Cut Beans, Broccoli Cuts, Broccoli Spears, Brussels Sprouts, Cut Corn, Fordhooks, Mixed Vegetables, Leaf Spinach, Chopped Spinach, Peas and Carrots, Peas, and Strawberries.
Claims use since on or about Apr. 16, 1952.

Ser. No. 646,042. Albert J. Ashkar, Inc., Los Angeles, Calif. Filed Apr. 28, 1953.



For Fresh Carrots.
Claims use since Mar. 15, 1953.

Ser. No. 646,307. North American Packing Corporation, Boston, Mass. Filed May 1, 1953.



For Smoked and Processed Meats—Namely, Beef Shoulder Steaks.
Claims use since Apr. 24, 1953.

Ser. No. 647,708. Newton Grocery Company, Inc., Dothan, Ala. Filed May 26, 1953.

TOP O' THE WORLD

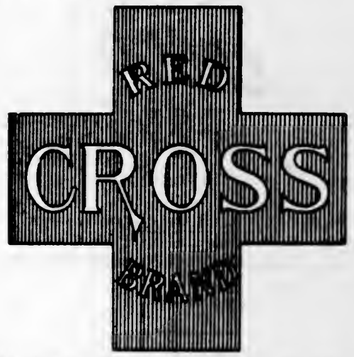
Applicant claims ownership of Registration No. 549,443.
For Canned Fruits and Canned Fruit Juices—Namely, Pineapple Juice, Orange Juice, and Grapefruit Juice.
Claims use since January 1941.

Ser. No. 647,780. King Kone Corporation, New York, N. Y. Filed May 27, 1953.

KING KONE

The applicant hereby disclaims the word "Kone" separate and apart from the trade-mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 308,143 and 417,289.
For Empty Ice Cream Cones.
Claims use since March 1936.

Ser. No. 648,628. Chas. B. Silver & Son, Havre de Grace, Md. Filed June 11, 1953.



The drawing is lined for the color red. No claim is made to the word "Brand." Applicant claims ownership of Registrations Nos. 50,291 and 410,474.
For Canned Foodstuffs—Namely, Canned Vegetables and Canned Tomato Juice.
Claims use since 1876.

Ser. No. 648,944. Peter Paul, Inc., Naugatuck, Conn. Filed June 17, 1953.

CONO-BAR

The word "Bar" is disclaimed apart from the rest of the mark as shown.
For Candy.
Claims use since May 26, 1953.

Ser. No. 650,189. Mars, Incorporated, Chicago, Ill. Filed July 13, 1953.

Socko!

For Candy.
Claims use since May 29, 1953.

Ser. No. 650,435. Fulk and Rabidue, West Branch, Mich. Filed July 17, 1953.



For Spaghetti Meat Sauce.
Claims use since June 22, 1953.

Ser. No. 650,466. John Leslie Ward, doing business as The U-Geta Company, Valparaiso, Ind. Filed July 17, 1953.

"U-GETA"

For Meat Sauce.
Claims use since June 29, 1953.

Ser. No. 653,355. D'Arrigo Bros. Co. of California, San Jose, Calif. Filed Sept. 18, 1953. (Sec. 2f.)

D'Arrigo

Applicant claims ownership of Registration No. 376,021.
For Fresh Grapes.
Claims use since Sept. 21, 1947.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 646,235. Adam Scheidt Brewing Co., Norristown, Pa. Filed Apr. 30, 1953.

RAMS HEAD

Applicant claims ownership of Registrations Nos. 309,138 and 281,576.
For Ale.
Claims use since Nov. 12, 1930.

Ser. No. 646,236. Adam Scheidt Brewing Co., Norristown, Pa. Filed Apr. 30, 1953.

Scheidt's
VALLEY
FORGE

The surname "Scheidt's" is disclaimed from the mark as shown. Applicant claims ownership of Registrations Nos. 142,749, 305,560, and others.
For Beer.
Claims use since April 1915.

Ser. No. 646,237. Adam Scheidt Brewing Co., Norristown, Pa. Filed Apr. 30, 1953. (Sec. 2f.)

Scheidt's

Applicant claims ownership of Registrations Nos. 426,523 and 418,270.
For Beer.
Claims use since 1870.

Ser. No. 646,238. Adam Scheidt Brewing Co., Norristown, Pa. Filed Apr. 30, 1953.

Valley Forge

Applicant claims ownership of Registrations Nos. 142,749, 305,560, and others.
For Beer.
Claims use since 1915.

Ser. No. 646,239. Adam Scheidt Brewing Co., Norristown, Pa. Filed Apr. 30, 1953.



The trade-mark consists of the word "Prior" printed in black on a white circular background having a black circular border and having a red dot over the "I" (represented by vertical lining in the drawing). Applicant claims ownership of Registrations Nos. 417,183, 417,182, and 307,501.
For Beer.
Claims use since 1900.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 618,348. Duraplex (Plastics) Limited, London, England. Filed Sept. 4, 1951.

"Duraplex"

Applicant claims ownership of British Registration No. 656,500, dated Feb. 14, 1947.
For Flexible Plastic Material in Sheet Form Used as Leather Substitutes.

Ser. No. 632,012. The Borrowed Timers, San Diego, Calif. Filed July 1, 1952. (Sec. 2f.)

Prayer Reminder

Applicant claims ownership of Registration No. 559,951.
For Crosses for Tables and Walls.
Claims use since March 1941.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 612,803. Vivian Nash Hill, doing business under the name Bee-Dew Cosmetic Co., Detroit, Mich. Filed Apr. 18, 1951.

BEE·DEW

Applicant claims ownership of Registration No. 305,279.
For Scalp Oil, Toilet Water, Blackhead Softener, Perspiration Deodorant, Mud Pack, Oil for Imparting Luster to the Hair, Pressing Oil for Use on Hair, Pomades, Bleaching Cream, Vanishing Cream, Cleansing Cream, Brushless Shaving Cream, Massage Cream, Cologne, Astringent Lotion, Liquid Deodorant, Hair Dressing, and Face Powder.
Claims use since June 5, 1929.

Ser. No. 627,211. Jack B. Nethercutt, doing business as Nethercutt Laboratories, Santa Monica, Calif. Filed Mar. 28, 1952. (Sec. 2f.)

LASHCREME

For Cosmetics—Namely, Mascara.
Claims use since 1936.

Ser. No. 634,383. R. R. Ramirez, doing business as Tendresse Cosmetics, San Francisco, Calif. Filed Aug. 23, 1952.

MELI OIL

No claim is made to the word "Oil" apart from the mark as shown.
For Facial and Body Oil.
Claims use since July 17, 1949.

Ser. No. 635,337. Ar. Winarick, Inc., New York, N. Y. Filed Sept. 16, 1952.

FORE!

Applicant claims ownership of Registration No. 275,460.
For After Shaving Lotion.
Claims use since May 1, 1930.

Ser. No. 635,884. The Procter & Gamble Company, Cincinnati, Ohio. Filed Sept. 27, 1952.

Liquid Brush

For Hair Dressing.
Claims use since Aug. 14, 1952.

Ser. No. 637,527. The Pharma-Craft Corporation, New York, N. Y. Filed Sept. 19, 1952.

OBAY

Applicant claims ownership of Registrations Nos. 433,233 and 560,847.
For Hair Tonic.
Claims use since July 31, 1946.

Ser. No. 643,706. Lydia O'Leary, Inc., New York, N. Y. Filed Mar. 16, 1953. (Sec. 2f.)

SPOTSTIK

Applicant claims ownership of Registration No. 347,432.
For Cream Preparation for Concealing Birthmarks and Other Skin Blemishes Put Up in Cream and Stick Forms.
Claims use since Mar. 2, 1936.

Ser. No. 649,854. The J. R. Watkins Company, Winona, Minn. Filed July 3, 1953.

So Tenderly

For Perfume, Cologne, Bath Salts, Dusting Powder, and Sachet.
Claims use since June 8, 1953.

Ser. No. 650,936. Revlon Products Corporation, New York, N. Y. Filed July 27, 1953.

'SPLURGE'

For Bath Cologne.
Claims use since July 7, 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 632,608. Finger Lakes Chemical Company, Inc., Etna, N. Y. Filed July 16, 1952.

RESTAURALL

For Detergents Used for Cleaning Dish Ware and Utensils.
Claims use since May 5, 1952.

Ser. No. 645,061. G. H. Packwood Manufacturing Co., St. Louis, Mo. Filed Apr. 10, 1953.

Laund-R-PAX

The term "Laund-R" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 253,176 and 389,614.
For Washing Compound.
Claims use since Aug. 30, 1950.

Ser. No. 645,083. Tesco Chemicals, Inc., Atlanta, Ga. Filed Apr. 10, 1953. (Sec. 2f.)

DIRTKILLER

Applicant claims ownership of Registration No. 300,260.
For Cleaning Compound in Powdered Form Particularly Useful in Cleaning Grease and Dirt From Floors, Cement, Tile, Terrazo, Marble, or Wood.
Claims use since on or about May 1931.

Ser. No. 647,771. The Gillette Company, doing business under the name and style of The Toni Company, Gillette Park, Boston, Mass. Filed May 27, 1953.

Show Time

For Shampoo.
Claims use since Dec. 22, 1952.

Ser. No. 649,268. The Wolcott Company, Hartford, Conn. Filed June 23, 1953.

Wolco

For Cleaning Compounds.
Claims use since Mar. 11, 1953.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 605,410. The Reuben H. Donnelley Corporation, Chicago, Ill. Filed Oct. 25, 1950. (Sec. 2f.)

Red Book Buyers' Service

No claim is made to the words "Byers' Service" apart from the mark as shown. Applicant claims ownership of Registration No. 148,232.
For Providing Buying Information as to Sellers of All Kinds of Merchandise and Services and Who Advertise in the Telephone Directories Known as "The Red Book."
Claims use since January 1921.

Ser. No. 605,614. Walter W. Ross and Company, Inc., doing business as Beta Sigma Phi and Beta Sigma Phi International, Kansas City, Mo. Filed Oct. 30, 1950. COLLECTIVE MARK.

Beta Sigma Phi

For Encouraging Members To Take an Interest in Social, Cultural, and Educational Affairs, and the Art of Self-Expression.
Claims use since Apr. 30, 1931.

Ser. No. 625,690. Oregon Dairy Breeders Association, Corvallis, Oreg. Filed Feb. 28, 1952. COLLECTIVE MARK.



For Artificial Insemination of Cattle.
Claims use since Oct. 3, 1948.

Ser. No. 627,105. Alpha Chi Sigma Fraternity, Indianapolis, Ind. Filed Mar. 27, 1952. COLLECTIVE MARK.



The lining on the mark does not denote color.
For Organizing Chapters in a National Collegiate and Professional Fraternity, Maintaining Membership Therein, and Furthering the Ideals and Purposes Thereof.
Claims use since Jan. 1, 1904.

Ser. No. 639,232. Ted F. Merrill, doing business under the name and style of Ted F. Merrill and Sons, Inglewood, Calif. Filed Dec. 9, 1952.

BUILDING SURGEONS

The term "Building" is disclaimed apart from the mark as shown.

For Architectural and Structural Design Services Relating to Building.

Claims use since March 1926.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 623,899. Walter Mitziga, doing business as South Shore Printers, Chicago, Ill. Filed Jan. 22, 1952.



The words "Printing Service" apart from the mark shown are disclaimed.

For Job Printing Service.

Claims use since Feb. 13, 1951.

Ser. No. 635,112. Tyler Kay Company, Inc., doing business as Mutual Funds Center, Buffalo, N. Y. Filed Sept. 10, 1952.



No exclusive claim is made to the words "Mutual Funds" apart from the mark as shown on the drawing.

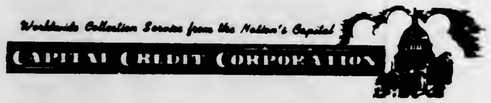
For Advertising and Promotional Services Rendered to Others—Namely, the Preparation and Placing for Securities Dealers of Advertising Material Relating to the Sale of Stock in Open End Investment Trusts.

Claims use since June 2, 1952.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 637,534. Capital Credit Corporation, Washington, D. C. Filed Nov. 3, 1952.



Applicant disclaims all wording except the word "Capital" apart from the mark as shown. The lining in the drawing represents the lining forming part of the mark.

For Collection of Bad Debts.

Claims use since October 1947.

Ser. No. 647,797. The National Shawmut Bank of Boston, Boston, Mass. Filed May 27, 1953.



The mark includes a reproduction of a bust of Obbatinewat, now deceased. No exclusive right is claimed in the words "Instalment Plan" apart from the mark as shown.

For Banking Services—Namely, Granting of Secured and Unsecured Loans on the Instalment Plan.

Claims use since at least the year 1938.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 628,904. American Red Ball Transit Company, Inc., Indianapolis, Ind. Filed Apr. 30, 1952.



Applicant disclaims the words "American" and "Transit Company, Inc." except as a part of the mark as shown.

For Moving and Shipping by Motor Truck in Commerce Among the Several States of General Commodities.

Claims use since August 1951.

Ser. No. 631,523. Airborne Flower & Freight Traffic, Inc., South San Francisco, Calif., sometimes known as Airborne Flower and Freight Traffic, Inc. Filed June 21, 1952.



No claim is made to the words "Airborne" and "Flower & Freight Traffic, Inc." apart from the mark as shown.

For Domestic and International Air Freight Forwarding—Namely, Picking Up, Assembling, Consolidating, Shipping, Distributing, and Delivering Articles of Merchandise; and Expediting the Shipment of Freight by Air Transportation.

Claims use since Jan. 12, 1952.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 648,928. Max Liebman Productions, Inc., New York, N. Y. Filed June 17, 1953. (Sec. 2f.)

Your Show of Shows

For Entertainment Services, Such Entertainment Services Being Rendered by the Applicant Through the Medium of a Musical Variety Television Broadcast Program.

Claims use since on or about Feb. 25, 1950.

Ser. No. 651,404. Illinois Agricultural Association, Chicago, Ill. Filed Aug. 5, 1953.

FARMTOWN, U·S·A·

No claim is made to letters "U. S. A." apart from the mark as shown.

For Entertainment Presented Through the Medium of Television Programs Portraying Various Activities of Farm Life.

Claims use since May 6, 1952.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

585,001. Dress Clothing—Namely, Full Dress Suits, Etc. Austin Reed Limited, London, England.
Filed July 12, 1947, Serial No. 528,422. Published Sept. 1, 1953. Class 39.

585,002. Additive for Motor Oil and Gasoline. Champion Products, Inc., Stephenville, Tex.
Filed Apr. 21, 1950, Serial No. 596,075. Published Oct. 20, 1953. Class 15.

585,003. Sheets of Plastic Synthetic Resin, Etc. Bolta Products Sales, Inc., Lawrence, Mass.
Filed Sept. 26, 1950, Serial No. 603,982. Published Oct. 20, 1953. Class 1.

585,004. Sheets of Plastic Synthetic Resin in Various Colors, and With Various Surface Finishes, Etc. Bolta Products Sales, Inc., Lawrence, Mass.
Filed Sept. 26, 1950, Serial No. 603,983. Published Oct. 20, 1953. Class 1.

585,005. Dripless Oil (Lubricating and Penetrating Oil), Household Oil, Etc. The Pure Oil Company, Chicago, Ill.
Filed Sept. 29, 1950, Serial No. 604,225. Published Oct. 20, 1953. Class 15.

585,006. Asphalt and Asbestos Roof Cements, Asphalt and Asbestos Liquid Roof Surfacings, Asphalt and Asbestos Foundation Surfacings. Walter Slodlowski, doing business as Prospect Paint Company, Secaucus, N. J.
Filed Oct. 7, 1950, Serial No. 604,601. Published Apr. 14, 1953. Class 12.

585,007. Hand Lotion. Helena Rubinstein, Inc., New York, N. Y.
Filed Oct. 12, 1950, Serial No. 604,809. Published Apr. 15, 1952. Class 51.

585,008. Therapeutic Mineral and Vitamin Supplement for Poultry Feed. Dr. L. D. Le Gear Medicine Company, St. Louis, Mo.
Filed Dec. 11, 1950, Serial No. 607,554. Published Oct. 27, 1953. Class 18.

585,009. Grocery Items—Namely, Coffee, Canned Corn, Canned Peas, Canned Pineapple, and Canned Salmon. Winston and Newell Company, Minneapolis, Minn.
Filed Feb. 17, 1951, Serial No. 610,243. Published Apr. 21, 1953. Class 46.

585,010. Candies—Namely, Chocolate Covered Cherries. Fascination Candy Co., Inc., Chicago, Ill.
Filed Feb. 23, 1951, Serial No. 610,432. Published Dec. 9, 1952. Class 46.

585,011. Splice for Electrical Conductors. Burndy Engineering Company, Inc., New York, N. Y.
Filed Apr. 13, 1951, Serial No. 612,584. Published Oct. 13, 1953. Class 21.

585,012. Food Products—Namely, Plum Preserves, Grape Jelly, Etc. Hershel California Fruit Products Co., San Jose, Calif.
Filed May 26, 1951, Serial No. 614,405. Published Jan. 8, 1952. Class 46.

585,013. Toilet Soap, Face Soap, Hand Soap, Deodorant Soap, and Toilet Soap in Granulated Form. Helena Rubinstein, Inc., New York, N. Y.
Filed June 4, 1951, Serial No. 614,723. Published Nov. 10, 1953. Class 52.

585,014. Flushing Oil Useful for Removing Abrasives and Other By-Products of Combustion, Etc. Signal Oil Company, Los Angeles, Calif.
Filed May 28, 1951, Serial No. 614,800. Published Oct. 27, 1953. Class 52.

585,015. Vibrating Screens. Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Filed July 17, 1951, Serial No. 616,582. Published Sept. 22, 1953. Class 23.

585,016. Latex Rubber Pillows. Star Bedding Co., St. Louis, Mo.
Filed July 25, 1951, Serial No. 616,926. Published Dec. 2, 1952. Class 32.

585,017. Machines for the Handling, Cleaning, Grading, and Treating of Seeds and Grain, Etc. A. T. Ferrell & Co., Saginaw, Mich.
Filed Sept. 13, 1951, Serial No. 618,735. Published Sept. 22, 1953. Class 23.

585,018. Reconditioned Typewriters. L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y.
Filed Sept. 14, 1951, Serial No. 618,823. Published Sept. 22, 1953. Class 23.

585,019. Soap. S. H. Kress and Company, New York, N. Y.
Filed Sept. 21, 1951, Serial No. 619,091. Published Oct. 20, 1953. Class 52.

585,020. Automobile Exhaust Deflectors. Peters & Russell, Inc., doing business as Koch Manufacturing Company, Springfield, Ohio.
Filed Sept. 26, 1951, Serial No. 619,257. Published Sept. 22, 1953. Class 23.

585,021. Spark Plugs. V. G. Manufacturing Corp., Monrovia, Calif.
Filed Oct. 22, 1951, Serial No. 620,330. Published Oct. 13, 1953. Class 21.

585,022. Liquid Wood Preservative for the Prevention of Rot and for the Extermination and Prevention of Termites, Red Mites, Blue Bugs, Fleas, and Other Insects. Gordon Chemical Co., Inc., Kansas City, Mo.
Filed Oct. 26, 1951, Serial No. 620,502. Published Oct. 27, 1953. Class 6.

585,023. Solutions of Dextrose or Other Preservatives for Storing Plasma, Serum, or Other Blood Products. Don Baxter, Inc., Glendale, Calif.
Filed Oct. 29, 1951, Serial No. 620,567. CONCURRENT USE. Published Oct. 6, 1953. Class 18.

585,024. Solutions of Dextrose or Other Preservatives for Storing Plasma, Serum, or Other Blood Products. Baxter Laboratories, Inc., Morton Grove, Ill.
Filed Oct. 29, 1951, Serial No. 620,577. CONCURRENT USE. Published Oct. 6, 1953. Class 18.

585,025. Sodium Hypochlorite Solution for Use in Washing Clothes, the General Cleaning of Wood, Glass, Linoleum, Porcelain, and Vitreous China Surfaces, and Having Cleansing, Disinfecting, Deodorizing, Bleaching, and Stain Removing Properties. Violetta Chemical Co., Buffalo, N. Y.
Filed Dec. 3, 1951, Serial No. 622,046. Published July 15, 1952. Class 52.

585,026. Printing Paper. Fletcher Paper Company, Alpena, Mich.
Filed Jan. 14, 1952, Serial No. 623,539. Published Oct. 27, 1953. Class 37.

585,027. High Temperature Resistant Grease for Tractors and Other Heavy Duty Equipment. Southwestern Petroleum Co., Inc., Fort Worth, Tex.
Filed Feb. 1, 1952, Serial No. 624,426. Published Sept. 2, 1952. Class 15.

585,028. Cleansing, Sanitizing, and Deodorizing Material for Eggs. Cooperstown Chemical, Inc., Cooperstown, N. Y.
Filed Feb. 25, 1952, Serial No. 625,462. Published Oct. 27, 1953. Class 52.

585,029. Perfumes. Jeanne Liebenguth, doing business as Jeanne Noël, Grasse, France, and New York, N. Y.
Filed Mar. 4, 1952, Serial No. 625,912. Published June 9, 1953. Class 51.

585,030. Horological Instruments—Namely, Watches, Watch Bracelets, Pocket Watches, Parts of Watches, Movements, Dials, Containers of Watches, Pendulums, and Watch Casings. Henry Sandoz et Fils, La Chaux-de-Fonds, Switzerland.
Filed Apr. 1, 1952, Serial No. 627,789. Published Oct. 20, 1953. Class 27.

585,031. Detergent for General Household and Laundry Use. Mid-Continent Chemical Co. Inc., South Bend, Ind.
Filed Apr. 11, 1952, Serial No. 627,955. Published Oct. 27, 1953. Class 52.

585,032. Soap for Laundry, Dish Washing, and General Cleaning Put Up in Packages Bearing Wording in the Spanish Language Only To Describe the Product and Uses for Which It Is Intended. Colgate-Palmolive-Peet Company, Jersey City, N. J., now by change of name Colgate-Palmolive Company.
Filed Apr. 21, 1952, Serial No. 628,396. Published June 9, 1953. Class 52.

585,033. Printed Electric Circuit Assemblies for Electronic Equipment. Aerovox Corporation, New Bedford, Mass.
Filed Apr. 24, 1952, Serial No. 628,604. Published Oct. 13, 1953. Class 21.

585,034. Fluorescent Lighting Apparatus — Namely, Lighting Fixtures and Parts Therefor, Bed Lamps and Germicidal Lamps. Electro Manufacturing Corporation, Chicago, Ill.
Filed May 3, 1952, Serial No. 629,156. Published Oct. 27, 1953. Class 21.

585,035. Hand Tools—Namely, Butchers' and Upholsterers' Needle Pointed Tools (With and Without Handles) for Use in Packing, Baling, Upholstering, Etc.; Butchers' Masticators and Meat Tenderers; Butchers' Pins and Tiers; Meat Moulds; Stampers; Knives and Pouches Therefor. S. E. Haycraft, doing business as Barr Bros. Co., Oakland, Calif.
Filed May 12, 1952, Serial No. 629,571. Published Sept. 22, 1953. Class 23.

585,036. Electric Hair Dryers. Master Appliance Manufacturing Co., Racine, Wis.
Filed May 12, 1952, Serial No. 629,578. Published Oct. 20, 1953. Class 44.

585,037. Spur and Helical Gears, Shafts, Hubs, Flanges, and Associated Parts—Namely, Springs, Etc. Dittmer Gear and Manufacturing Corp., Lockport, N. Y.
Filed May 14, 1952, Serial No. 629,657. Published Sept. 22, 1953. Class 23.

585,038. Vacuum and Pressure Air Pumps, Spray Guns, Air and Gas Compressors, and Parts Therefor. The Electric Sprayit Company, Sheboygan, Wis.
Filed May 21, 1952, Serial No. 629,996. Published Sept. 22, 1953. Class 23.

585,039. Medicinal and Pharmaceutical Preparations for Use in the Treatment of Acidosis, Etc. Causyth S. p. A., Milan, Italy.
Priority under Sec. 44(d). Italian Registration No. 108,288, filed May 8, 1952.
Filed May 28, 1952, Serial No. 630,388. Published Oct. 27, 1953. Class 18.

585,040. Antidote for Alcoholism or Fatigue in Tablet Form. Paul F. W. Henning, Chicago, Ill.
Filed May 29, 1952, Serial No. 630,494. Published June 30, 1953. Class 18.

585,041. Toilet Soap. Karlsruher Parfumerie- und Toiletteseifenfabrik F. Wolff & Sohn, Gesellschaft mit beschrankter Haftung, Karlsruhe, Baden, Germany.
Filed June 2, 1952, Serial No. 630,598. Published Oct. 20, 1953. Class 52.

585,042. Sweeping Compound. International Sisal Company, Minneapolis, Minn.
Filed June 23, 1952, Serial No. 631,621. Published Oct. 27, 1953. Class 52.

585,043. Bible and Printing Papers. Ecusta Paper Corporation, Pisgah Forest, N. C.
Filed July 10, 1952, Serial No. 632,359. Published Oct. 27, 1953. Class 37.

585,044. Restraining Blankets or Sheets for Restraining Patients During Therapeutic Treatment. Jayne Bryant, Chicago, Ill.
Filed Aug. 5, 1952, Serial No. 633,485. Published Sept. 15, 1953. Class 44.

585,045. Packaged Frozen Clam Chowder, Lobster Bisque, Etc. Atlantic Lobster House, Inc., Charlestown, Mass.
Filed Aug. 12, 1952, Serial No. 633,749. Published Nov. 24, 1953. Class 46.

585,046. Refined Isomeric Propylene Myristin. Sardeau, Inc., New York, N. Y.
Filed Aug. 13, 1952, Serial No. 633,878. Published Oct. 27, 1953. Class 6.

585,047. Floor Wax in Liquid or Paste Form. Success Wax Ltd., Quebec, Quebec, Canada.
Filed Aug. 13, 1952, Serial No. 633,886. Published Oct. 20, 1953. Class 4.

585,048. Dog Shampoo Soap in Ready Mixed Liquid Form. Anderson-Peck Enterprises, Cincinnati, Ohio.
Filed Aug. 14, 1952, Serial No. 633,906. Published Oct. 20, 1953. Class 52.

585,049. Raw Cork and Cut Cork. Mundet Cork Corporation, North Bergen, N. J.
Filed Aug. 20, 1952, Serial No. 634,209. Published Oct. 20, 1953. Class 1.

585,050. Medical and Surgical Instruments Made of Rubber or Plastic Material — Namely, Catheters, Bougies, and Tubes. Societé à Responsabilité Limitée: Porgès, Sarlat (Dordogne) and Paris, France.
Filed Aug. 20, 1952, Serial No. 634,220. Published Oct. 13, 1953. Class 44.

585,051. Dentures (Full and Partial), Metal Castings of the Stabilizing Mesh-Work for Such Dentures, and Patterns Made From Volatile Materials for Use in the Making of Such Castings. State Dental Technicians, Inc., New York, N. Y., assignor to Austenal Laboratories, Inc., New York, N. Y., a corporation of New York.
Filed Aug. 26, 1952, Serial No. 634,497. Published Oct. 20, 1953. Class 44.

585,052. Shampoo. The Gillette Company, Boston, Mass.
Filed Aug. 28, 1952, Serial No. 634,588. Published Oct. 27, 1953. Class 52.

585,053. Paste Cleaners, Waterless Cleaners, Liquid Cleaners, and Liquid Dry Cleaners, for Hands, Walls, Woodwork, Tile, and the Like. The Davies-Young Soap Company, Dayton, Ohio.
Filed Sept. 3, 1952, Serial No. 634,777. Published Oct. 20, 1953. Class 52.

585,054. Radial Drills, Special Boring Machines, Lathes, and Sewing Machines. Casati Ernesto & Figli—Caser, Milan and Pavia, Italy.
Filed Feb. 1, 1952, Serial No. 635,110. Published Sept. 22, 1953. Class 23.

585,055. Vitaminic Preparation. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed Sept. 12, 1952, Serial No. 635,198. Published Mar. 31, 1953. Class 18.

585,056. Pharmaceutical Preparation Containing Hydrazide of Isonicotinic Acid for Chemical Therapy Against Micro-Bacteriological Infections. Istituto Farmacoterapico Italiano, Rome, Italy.
Priority under Sec. 44(d). Italian Registration No. 108,571, filed Aug. 11, 1952.
Filed Sept. 17, 1952, Serial No. 635,364. Published Oct. 27, 1953. Class 18.

585,057. Alkali Softening and Detergent Composition for Removing Burnt Cooking Grease and the Like. Pacific Hygiene Products, Inc., Monrovia, Calif.
Filed Sept. 18, 1952, Serial No. 635,428. Published Oct. 20, 1953. Class 52.

585,058. Medicinal Combination Containing a Diastatic Enzyme. Parke, Davis & Company, Detroit, Mich.
Filed Sept. 18, 1952, Serial No. 635,429. Published Oct. 13, 1953. Class 18.

585,059. Watermelon Syrups. Ernest R. May, Albuquerque, N. Mex.
Filed Sept. 25, 1952, Serial No. 635,781. Published Aug. 4, 1953. Class 46.

585,060. Coatings and Icings Made of Plain Chocolate, Milk Chocolate, Sweet Cocoa, and Vegetable Fat, for Use in the Baking and Confectionery Trades but Excluding Milk and Other Dairy Products of All Kinds. Pettingill Products Limited, Mitcham, Surrey, England.
Filed Sept. 25, 1952, Serial No. 635,785. Published Mar. 3, 1953. Class 46.

585,061. Garden and Field Seeds and Bulbs. Cornell Seed Company, St. Louis, Mo.
Filed Oct. 8, 1952, Serial No. 636,346. Published Oct. 6, 1953. Class 1.

585,062. Coal. New River and Pocahontas Consolidated Coal Company, Philadelphia, Pa.
Filed Oct. 8, 1952, Serial No. 636,375. Published Oct. 6, 1953. Class 1.

585,063. Cleaning and Polishing Composition for Automobiles and Furniture. The Livingston Company, Woodbridge, Conn.
Filed Oct. 10, 1952, Serial No. 636,484. Published Oct. 20, 1953. Class 4.

585,064. Unmounted Gems—Namely, Emerald Crystals Grown According to a Special Process. Carroll F. Chatham, doing business under the name Chatham Research Laboratories, San Francisco, Calif.
Filed Oct. 14, 1952, Serial No. 636,584. Published Oct. 20, 1953. Class 28.

585,065. Synthetic Detergents Used in the Production of Various Liquid and Creamy Washing Agents Such as Shampoos, Liquid Soaps, Auto Washes, Bath Foams, and the Like. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed Oct. 17, 1952, Serial No. 636,782. Published Oct. 20, 1953. Class 52.

585,066. Lubricating Oils—Namely, Lubricating Oils Mixed With a Propellent for Spray Application. The Reflectone Corporation, Stamford, Conn.
Filed Oct. 17, 1952, Serial No. 636,804. Published Oct. 20, 1953. Class 15.

585,067. Mildew Preventative and Moth Killer. John Clarke & Co. Inc., New York, N. Y.
Filed Oct. 18, 1952, Serial No. 636,838. Published Oct. 27, 1953. Class 6.

585,068. Bob Pins. F. W. Woolworth Co., New York, N. Y.
Filed Oct. 20, 1952, Serial No. 636,909. Published Nov. 3, 1953. Class 40.

585,069. Women's Dresses. Vivien Kellems, Stonington, Conn.
Filed Oct. 21, 1952, Serial No. 636,932. Published Oct. 20, 1953. Class 39.

585,070. Liquid Dye for Application to Surfaces of Structures Made of Concrete, Such as Sidewalks, Driveways, Flooring in Building Construction, and the Like. Frank P. White Company, Minneapolis, Minn.
Filed Oct. 23, 1952, Serial No. 637,098. Published Oct. 27, 1953. Class 6.

585,071. Panels for Concrete Form Construction. Harbor Plywood Corporation, Aberdeen, Wash.
Filed Oct. 28, 1952, Serial No. 637,275. Published Oct. 20, 1953. Class 12.

585,072. Protective Material Sold in Sheet Form Composed of Spun Glass Fibers, Synthetic Rubber Fibers, Rubber and Plastics Compound Co., Inc., New York, N. Y.
Filed Nov. 12, 1952, Serial No. 637,952. Published Oct. 6, 1953. Class 1.

585,073. Serving Trays, Sets of Serving Trays, Tray Tables, Collapsible Tables, and Tea Tables. Björn Kjellström, La Porte, Ind.
Filed Nov. 13, 1952, Serial No. 637,998. Published Oct. 27, 1953. Class 32.

585,074. Leather. Karg Brothers, Inc., Johnstown, N. Y.
Filed Nov. 20, 1952, Serial No. 638,365. Published Oct. 27, 1953. Class 1.

585,075. Fur Pelts. Arthur R. MacArthur, doing business under the name and style of MacArthur Farms, Janesville, Wis.
Filed Dec. 1, 1952, Serial No. 638,803. Published Oct. 6, 1953. Class 1.

585,076. Salve for Relief of Piles, Liniment for Treatment of Sores, Preparation for Relief of Soreness of Muscles and Joints, and a Tonic for Stomach Disorders. Earl Richmond, Toledo, Ohio.
Original filed, act of 1946, Supplemental Register, Dec. 11, 1952; amended to application, Principal Register, May 21, 1953, Serial No. 639,340. Published Sept. 22, 1953. Class 18.

585,077. Travel Clocks. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,497. Published Oct. 27, 1953. Class 27.

585,078. Costume Jewelry—Namely, Earrings, Necklaces, Bracelets, Etc. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,498. Published Oct. 27, 1953. Class 28.

585,079. Ceramic Articles—Namely, Tea Pots, Coffee Pots, Mustard Pots, Etc. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,499. Published Oct. 27, 1953. Class 30.

585,080. Drinking Glasses and Tumblers, Luncheon Sets, Bowls, Ovenware and Fireproof Cooking Ware, Tableware, Tray Sets, Decanters, Cruets, Stemware, Salt and Pepper Shakers, and Vases, All Made of Glass. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,501. Published Oct. 27, 1953. Class 33.

585,081. Costume Jewelry—Namely, Earrings, Necklaces, Bracelets, Etc. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,515. Published Oct. 27, 1953. Class 28.

585,082. Vehicles — Namely, Passenger Automobiles. Packard Motor Car Company, Detroit, Mich.
Filed Dec. 19, 1952, Serial No. 639,770. Published Nov. 3, 1953. Class 19.

585,083. Preparation Containing Antibiotic Drugs Intended for the Topical Prevention and Treatment of Infections of Accessible Mucous Membranes. White Laboratories, Inc., Kenilworth, N. J.
Filed Dec. 26, 1952, Serial No. 640,060. Published Oct. 27, 1953. Class 18.

585,084. Medicinal Preparation of Erythromycin, an Antibiotic Used in the Treatment of Bacterial Infections. Eli Lilly and Company, Indianapolis, Ind.
Filed Dec. 27, 1952, Serial No. 640,068. Published Oct. 13, 1953. Class 18.

585,085. Soap. Fabergé, Inc., New York, N. Y.
Filed Dec. 30, 1952, Serial No. 640,150. Published Oct. 20, 1953. Class 52.

585,086. Amulet Made of Precious Metal. Ruth Easley Moore, Washington, D. C.
Filed Jan. 5, 1953, Serial No. 640,350. Published Oct. 27, 1953. Class 28.

585,087. Lubricating Grease. Adam Cook's Sons, Inc., Linden, N. J.
Filed Jan. 8, 1953, Serial No. 640,500. Published Oct. 20, 1953. Class 15.

585,088. Compositions for Textile Treatment Imparting Wettability, Increased Absorption, Anti-Static Property, and Increased Abrasion Resistance to Rayon, Nylon, Other Synthetic Fibers, Cotton, Wool, and Silk in the Form of Fiber, Roving, Sliver, and Fabric. Scholler Brothers, Inc., Philadelphia, Pa.
Filed Jan. 12, 1953, Serial No. 640,647. Published Oct. 27, 1953. Class 6.

585,089. Penetrating Oil. Malcolm Bailey, Sr., doing business as Hydra-Lube Oil Sales, Tampa, Fla.
Filed Jan. 19, 1953, Serial No. 640,900. Published Oct. 20, 1953. Class 15.

585,090. Candles. Candle-Lite, Inc., Cincinnati, Ohio.
Filed Jan. 21, 1953, Serial No. 641,012. Published Oct. 6, 1953. Class 15.

585,091. Laboratory Furniture, More Particularly Consisting of Storage Cases and Cabinets, Etc. John E. Sjostrom Company, Philadelphia, Pa.
Filed Jan. 21, 1953, Serial No. 641,096. Published Oct. 27, 1953. Class 32.

585,092. Synthetic Detergent—Namely, Industrial and Household Hard Surface Cleaner for Floors, Walls, Painted Surfaces, and Metal Parts. The C. B. Dolge Company, Westport, Conn.
Filed Jan. 22, 1953, Serial No. 641,128. Published Oct. 27, 1953. Class 52.

585,093. Chemical Composition—Namely, an Air Spray To Be Used as a Deodorant and Disinfectant. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn.
Filed Jan. 30, 1953, Serial No. 641,565. Published Oct. 20, 1953. Class 6.

585,094. Amulet Made of Precious Metal. Ruth Easley Moore, Washington, D. C.
Filed Feb. 3, 1953, Serial No. 641,685. Published Oct. 27, 1953. Class 28.

585,095. Clays. Godfrey L. Cabot, Inc., Boston, Mass.
Filed Feb. 4, 1953, Serial No. 641,713. Published Oct. 6, 1953. Class 1.

585,096. Liqueur. Popper Morson Company, New York, N. Y., and Jersey City, N. J.
Filed Feb. 9, 1953, Serial No. 641,967. Published Sept. 29, 1953. Class 49.

585,097. Corrosion Inhibitor—Namely, a Water Based Slushing Compound of the Transient Film Type for Protecting Ferrous Metals During Transit or Storage. Poor & Company, Chicago, Ill.
Filed Feb. 10, 1953, Serial No. 642,044. Published Oct. 20, 1953. Class 15.

585,098. Marquees. Sun Outdoor Products Company, Incorporated, Little Ferry, N. J.
Filed Feb. 12, 1953, Serial No. 642,180. Published Oct. 20, 1953. Class 12.

585,099. Ink and Dye Eradicator in Stick Form. Guardian Chemical Corporation, Long Island City, N. Y.
Filed Feb. 13, 1953, Serial No. 642,222. Published Oct. 27, 1953. Class 52.

585,100. Tonic Medicine in Tablet Form To Increase Physical and Mental Strength and for Treating General Debility. Hormo-Pharma Limited, London, England.
Filed Feb. 13, 1953, Serial No. 642,224. Published Oct. 27, 1953. Class 18.

585,101. Skin Cleanser in the Nature of a Detergent or Soap. Chicago Sanitary Products Co., doing business as V–G Manufacturing Co., Chicago, Ill.
Filed Feb. 16, 1953, Serial No. 642,266. Published Oct. 27, 1953. Class 52.

585,102. Shampoo. The J. R. Watkins Company, Winona, Minn.
Filed Feb. 20, 1953, Serial No. 642,584. Published Sept. 15, 1953. Class 52.

585,103. Stalls, Partitions, Cattle Pen Panels Sold Together With Fittings Therefor, Columns and Stock Stanchions. H. D. Hudson Manufacturing Company, Chicago, Ill.
Filed Feb. 24, 1953, Serial No. 642,644. Published Sept. 15, 1953. Class 12.

585,104. Electrically Heated Extruder Cylinders, for Machines for Extruding Rubber, Rubber-Like Materials, and Plastic Materials. John Royle & Sons, Paterson, N. J.
Filed Feb. 24, 1953, Serial No. 642,694. Published Sept. 22, 1953. Class 23.

585,105. Polish for Finger Nails and Toe Nails. Pedi-Pak Products, Inc., Chicago, Ill.
Filed Feb. 25, 1953, Serial No. 642,768. Published Aug. 25, 1953. Class 51.

585,106. Poultry Feed Supplement. The Borden Company, New York, N. Y.
Filed Mar. 2, 1953, Serial No. 642,936. Published Oct. 27, 1953. Class 18.

585,107. Wall Shelves. Clarence J. Healy, South St. Paul, Minn.
Filed Mar. 2, 1953, Serial No. 642,969. Published Oct. 20, 1953. Class 32.

585,108. Pharmaceutical Preparation With Antispasmodic Effect to the Blood-Vessels. N. V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia, Amsterdam, Netherlands.
Filed Mar. 2, 1953, Serial No. 642,983. Published Oct 27, 1953. Class 18.

585,109. Bituminous Coal. Phoenix Fuel Company, Louisville, Ky.
Filed Mar. 4, 1953, Serial No. 643,115. Published Oct. 6, 1953. Class 1.

585,110. Insecticides. Anderson Clarke, Incorporated, Wildwood, N. J.
Filed Mar. 5, 1953, Serial No. 643,142. Published Oct. 27, 1953. Class 6.

585,111. Anesthetic Preparation. The Wander Company, Chicago, Ill.
Filed Mar. 9, 1953, Serial No. 643,388. Published Oct. 27, 1953. Class 18.

585,112. Apparatus for Training a Child To Prevent Bedwetting, Etc. The Dry-O-Matic Company, Detroit, Mich.
Filed Mar. 13, 1953, Serial No. 643,584. Published Oct. 27, 1953. Class 21.

585,113. Chemicals Sprayed on Portions of Automobiles and Building Contents To Eliminate Static Electricity Therein. Federal Distributing Co., Inc., Kansas City, Mo.
Filed Mar. 18, 1953, Serial No. 643,829. Published Oct. 27, 1953. Class 6.

585,114. Men's Wearing Apparel — Namely, Overcoats, Hats, Negligee Shirts, Neckties for Men and Boys; Shoes Made of Leather, as Well as Leather With Rubber Soles and Heels for Men and Boys; Underwear, Hosiery, Sweaters, Pajamas, Mufflers, Scarfs, and Suits. Federated Department Stores, Inc., Cincinnati, Ohio, doing business under the name Bloomingdale Bros., New York, N. Y.
Filed Mar. 20, 1953, Serial No. 643,947. Published Sept. 1, 1953. Class 39.

585,115. Hydraulically Operated Cranking Motors for Cranking Internal Combustion Engines. Hydramotive, Inc., Cleveland, Ohio.
Filed Mar. 20, 1953, Serial No. 643,958. Published Sept. 22, 1953. Class 23.

585,116. Intestinal Parasiticide. American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa.
Filed Mar. 26, 1953, Serial No. 644,209. Published Oct. 13, 1953. Class 18.

585,117. Carbon Black as an Amorphous Carbon of High Purity Containing a Significant Percentage of Combined Oxygen for Use in Chemical Compounds and for Chemical Purposes. Godfrey L. Cabot, Inc., Boston, Mass.
Filed Mar. 26, 1953, Serial No. 644,217. Published Oct. 27, 1953. Class 6.

585,118. Small Growing Palms. Palms from Florida, Inc., Miami, Fla.
Filed Mar. 26, 1953, Serial No. 644,251. Published Oct. 13, 1953. Class 1.

585,119. Hickory Wood Disks Having Apertures Therein Intended for Use as a Hickory Flavor-Imparting Supplemental Fuel in Barbecuing, Grilling, and Broiling Meats, Fish, Fowl, and the Like. Virginia Hickory Products Division, Marion Handle Mills, Inc., Marion, Va.
Filed Mar. 26, 1953, Serial No. 644,262. Published Oct. 13, 1953. Class 1.

585,120. Rubefacient Medicinal Cream. American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa.
Filed Mar. 30, 1953, Serial No. 644,379. Published Oct. 27, 1953. Class 18.

585,121. Ladies' and Children's Dresses and Coats. Florida Fashions, Inc., Orlando, Fla.
Filed Mar. 31, 1953, Serial No. 644,499. Published Nov. 3, 1953. Class 39.

585,122. Liquefied Petroleum Gases. Continental Oil Company, Ponca City, Okla.
Filed Apr. 2, 1953, Serial No. 644,602. Published Oct. 27, 1953. Class 6.

585,123. Grass Seed. Edgewood Farms, Inc., Marysville, Ohio.
Filed Apr. 2, 1953, Serial No. 644,605. Published Oct. 20, 1953. Class 1.

585,124. Grass Seed. Edgewood Farms, Inc., Marysville, Ohio.
Filed Apr. 2, 1953, Serial No. 644,606. Published Oct. 20, 1953. Class 1.

585,125. Lubricants in Solid or Liquid Form, Especially Adapted for Use in the Cold Drawing of Metallic Surfaces. American Chemical Paint Company, Ambler, Pa.
Filed Apr. 6, 1953, Serial No. 644,707. Published Oct. 6, 1953. Class 15.

585,126. Electrical Insulations — Namely, Hard Paper Sheets for Phenolic Condensation Products. The William Brand and Co. Inc., Willimantic, Conn.
Filed Apr. 6, 1953, Serial No. 644,725. Published Oct. 13, 1953. Class 21.

585,127. Insulation—Namely, Plastic Insulating Tubing To Cover Insulating Material Intended for Electrical Insulation. The William Brand and Co. Inc., Willimantic, Conn.
Filed Apr. 6, 1953, Serial No. 644,726. Published Oct. 13, 1953. Class 21.

585,128. Insulation—Namely, Plastic Insulating Tubing To Cover Insulating Material Intended for Electrical Insulation. The William Brand and Co. Inc., Willimantic, Conn.
Filed Apr. 6, 1953, Serial No. 644,727. Published Oct. 13, 1953. Class 21.

585,129. Electrical Insulations—Namely, Plastic Insulating Tubing and Insulating Material for Electrical Wires and Plastic Insulated Electrical Wires. The William Brand and Co. Inc., Willimantic, Conn.
Filed Apr. 6, 1953, Serial No. 644,728. Published Oct. 13, 1953. Class 21.

585,130. Electrical Insulations—Namely, Plastic Insulating Tubing and Insulating Material for Electrical Wires and Plastic Insulated Electrical Wires. The William Brand and Co. Inc., Willimantic, Conn.
Filed Apr. 6, 1953, Serial No. 644,729. Published Oct. 13, 1953. Class 21.

585,131. Insulating Materials for Electrical Insulation in the Form of Fibrous Glass Braid Coated With Insulating Varnishes or Lacquers. The William Brand and Co. Inc., Willimantic, Conn.
Filed Apr. 6, 1953, Serial No. 644,730. Published Oct. 13, 1953. Class 21.

585,132. Viscous Mineral Oil, Rich in Aromatic Hydrocarbons for Use in the Industrial Arts. The Pure Oil Company, Chicago, Ill.
Filed Apr. 6, 1953, Serial No. 644,788. Published Oct. 6, 1953. Class 15.

585,133. Liquids for Use in a Duplicating Process Wherein Copy Sheets Are Wet on the Surface With the Liquid and Brought Into Contact With an Image on a Master Sheet. A. B. Dick Company, Niles, Ill.
Filed Apr. 13, 1953, Serial No. 645,124. Published Oct. 27, 1953. Class 6.

585,134. Antibiotic Preparation. Chas. Pfizer & Co., Inc., Brooklyn, N. Y.
Filed Apr. 13, 1953, Serial No. 645,182. Published Oct. 6, 1953. Class 18.

585,135. Synthetic Rubber Latex. United States Rubber Company, New York, N. Y.
Filed Apr. 13, 1953, Serial No. 645,207. Published Oct. 20, 1953. Class 1.

585,136. Medicinal Preparation for the Treatment of Infectious Diseases. The Upjohn Company, Kalamazoo, Mich.
Filed Apr. 14, 1953, Serial No. 645,273. Published Oct. 13, 1953. Class 18.

585,137. Sudsing Cleaner, Cleanser and Detergent. The Procter & Gamble Company, Cincinnati, Ohio.
Filed Apr. 15, 1953, Serial No. 645,337. Published Oct. 20, 1953. Class 52.

585,138. Lauryl Sulfate for General Use in the Industrial Art. American Alcolac Corporation, Fairfield, Baltimore, Md.
Filed Apr. 20, 1953, Serial No. 645,527. Published Oct. 27, 1953. Class 6.

585,139. Veterinary Adrenocorticotropic Hormone Compositions. Armour and Company, Chicago, Ill.
Filed Apr. 20, 1953, Serial No. 645,528. Published Oct. 13, 1953. Class 18.

585,140. Preparation for the Relief of Stomach Disorders. McKesson & Robbins, Incorporated, New York, N. Y., and Fairfield, Conn.
Filed Apr. 27, 1953, Serial No. 646,001. Published Oct. 13, 1953. Class 18.

585,141. Tire Recapping and Retreading Materials—Namely, Camel Back, Retreading Rubber Stock, Tire Stripping Stock. O. K. Ko-Op Rubber Welding System, Littleton, Colo.
Filed Apr. 27, 1953, Serial No. 646,007. Published Oct. 6, 1953. Class 35.

585,142. Non-Alcoholic, Aqueous Vitamin Solution. Parke, Davis & Company, Detroit, Mich.
Filed Apr. 27, 1953, Serial No. 646,011. Published Oct. 27, 1953. Class 18.

585,143. Anti-Coagulant. Parke, Davis & Company, Detroit, Mich.
Filed Apr. 27, 1953, Serial No. 646,012. Published Oct. 27, 1953. Class 18.

585,144. Medicinal Preparation Containing Quercetin for Correction of Capillary Abnormality. Abbott Laboratories, North Chicago, Ill.
Filed Apr. 29, 1953, Serial No. 646,092. Published Oct. 20, 1953. Class 18.

585,145. Medicated Cream, Pomade or Ointment Indicated in and for the Care, Hygiene, Preservation, and Treatment of the Skin. The Knox Company, Los Angeles, Calif.
Filed Apr. 29, 1953, Serial No. 646,139. Published Oct. 27, 1953. Class 18.

585,146. Feed Supplement for Livestock and Poultry. O. W. Meyer, Napoleon, Ohio.
Filed Apr. 30, 1953, Serial No. 646,228. Published Oct. 27, 1953. Class 18.

585,147. Bleach for Laundry and Household Uses. James Austin Company, Mars, Pa.
Filed May 1, 1953, Serial No. 646,257. Published Oct. 27, 1953. Class 6.

585,148. Ammonia and Ammonium Compounds—Namely, Ammonium Sulfate, Sulfur, and Mercaptans. Brea Chemicals, Inc., Los Angeles, Calif.
Filed May 4, 1953, Serial No. 646,358. Published Oct. 27, 1953. Class 6.

585,149. Nutritional and Therapeutic Preparation Comprising an Aggregate of Vitamins, Yeast, and Liver. International Biochemical Corporation, Brooklyn, N. Y.
Filed May 5, 1953, Serial No. 646,473. Published Oct. 27, 1953. Class 18.

585,150. Tonic Medicine. The Dr. J. H. McLean Medicine Company, St. Louis, Mo.
Filed May 6, 1953, Serial No. 646,564. Published Oct. 27, 1953. Class 18.

585,151. Furfuraldehyde-Ketone Reaction Products To Be Used in the Compounding of Natural and Synthetic Rubbers, as a Resinous Binder, Resinous Coating, Resin Modifier, and in the Industrial Arts Generally. Irvington Varnish & Insulator Company, Irvington, N. J., assignor to Minnesota Mining and Manufacturing Company, St. Paul, Minn., a corporation of Delaware.
Filed May 7, 1953, Serial No. 646,616. Published Oct. 27, 1953. Class 6.

585,152. Jigsaw Puzzles and Cardboard Pushout Toys. Jaymar Specialty Company, New York, N. Y.
Filed May 8, 1953, Serial No. 646,671. Published Oct. 20, 1953. Class 22.

585,153. Ladies' and Misses' Coats, Suits, Dresses, Outer Skirts, Jackets, Blouses, Stockings, Gloves of Leather and Fabric, Outer Belts, Hats, Slacks, and Negligees. Jacques Heim, Paris, France.
Filed May 14, 1953, Serial No. 647,004. Published Oct. 20, 1953. Class 39.

585,154. Honey. Sioux Honey Association, Cooperative, Sioux City, Iowa.
Filed May 20, 1953, Serial No. 647,375. Published Aug. 25, 1953. Class 46.

Service Mark

585,155. Home Economist Services in Planning, Demonstrating, and Preparing Meals Conducted Through Lectures and Radio and Television Broadcast Programs. Ann N. Dries, Bayside, N. Y.
Filed Oct. 8, 1952, Serial No. 636,351. Published Oct. 20, 1953. Class 107.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

585,156. (Class 5. Adhesives.) Specialty Products Company, Jersey City, N. J. Original filed, act of 1946, Principal Register, Jan. 8, 1953; amended to application, Supplemental Register, Nov. 9, 1953, Serial No. 640,532.

KORE-SET

For Resinous Binder for Sand Cores.
Claims use since June 1950.

585,157. (Class 44. Dental, Medical, and Surgical Appliances.) Goetze-Niemer Physician & Dental Supply Co., Inc., St. Joseph, Mo. Original filed, act of 1946, Principal Register, Jan. 23, 1953; amended to application, Supplemental Register, Nov. 6, 1953, Serial No. 641,184.

PRINCETON

For Hypodermic Syringes.
Claims use since July 1952.

585,158. (Class 46. Foods and Ingredients of Foods.) Carter, Macy Company, Inc., New York, N. Y. Filed Apr. 14, 1953, Serial No. 645,229.



For Tea.
Claims use since Jan. 15, 1944.

585,159. (Class 46. Foods and Ingredients of Foods.) Mermaid Crab Meat Products Corporation, Daytona Beach, Fla. Original filed, act of 1946, Principal Register, May 12, 1953; amended to application, Supplemental Register, Oct. 27, 1953, Serial No. 646,886.

SMYRNA MAID

For Frozen Crab Rolls, Frozen Deviled Crab, and Frozen Fresh Breaded Scallops.
Claims use since Apr. 1, 1951.

585,160. (Class 51. Cosmetics and Toilet Preparations.) The Nestle-Le Mur Company, New York, N. Y. Original filed, act of 1946, Principal Register, May 12, 1953; amended to application, Supplemental Register, Oct. 20, 1953, Serial No. 646,888.

SPRAZE

For Liquid Hair Preparation in the Nature of a Hair Dress for Maintaining Hair Waves and Curls and Imparting a Sheen to the Hair.
Claims use since January 1949.

585,161. (Class 16. Protective and Decorative Coatings.) Chilton Paint Company, College Point, N. Y. Original filed, act of 1946, Principal Register, Aug. 30, 1948; amended to application, Supplemental Register, Nov. 7, 1952, Serial No. 564,370.

A CHILTON QUALITY PRODUCT

PAINT MAKERS SINCE 1865

Applicant claims ownership of Registration No. 300,927.
For Ready-Mixed Paints.
Claims use since Mar. 23, 1928.

585,162. (Class 46. Foods and Ingredients of Foods.) Nicholas Ortega, doing business under the firm name and style of Banana Syrup Co., San Francisco, Calif. Original filed, act of 1946, Principal Register, Jan. 9, 1950; amended to application, Supplemental Register, Apr. 18, 1951, Serial No. 590,558.



The words "Banana Syrup" are disclaimed.
For Banana Syrup Used for Food Purposes.
Claims use since June 6, 1949.

585,163. (Class 46. Foods and Ingredients of Foods.) Rockwood & Co., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Feb. 10, 1950; amended to application, Supplemental Register, Jan. 28, 1953, Serial No. 592,281.

PLAY MONEY

For Candy in the Form of Wrapped Disks or Wafers.
Claims use since Jan. 27, 1950.

585,164. (Class 46. Foods and Ingredients of Foods.) Ethel J. Madden, doing business as Goodies Spud Chip Co., Billings, Mont. Original filed, act of 1946, Principal Register, May 17, 1950; amended to application, Supplemental Register, June 9, 1953, Serial No. 597,621.



The words "Cheese Crisps" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 421,268.
For Cheese Crisps.
Claims use since May 3, 1950.

585,165. (Class 46. Foods and Ingredients of Foods.) Nelson Bros. Fisheries Limited, Vancouver, British Columbia, Canada. Original filed, act of 1946, Principal Register, July 16, 1951; amended to application, Supplemental Register, Jan. 30, 1953, Serial No. 616,368.



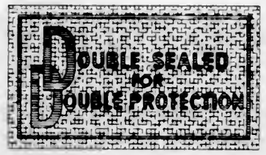
For Canned Patties or Croquettes Consisting Chiefly of Fish and Rice or Fish Without Rice.
Claims use since July 13, 1950, and first used in commerce between foreign nations and the United States on Apr. 11, 1951.

585,166. (Class 27. Horological Instruments.) The Gruen Watch Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Sept. 26, 1951; amended to application, Supplemental Register, Sept. 27, 1952, Serial No. 619,240.

"THE FIRST WORD
IN PRECISION - -
THE LAST WORD
IN STYLE"

For Watches, Watch Cases, and Watch Movements.
Claims use since Sept. 17, 1951.

585,167. (Class 1. Raw or Partly Prepared Materials.) Ferry-Morse Seed Co., Detroit, Mich. Filed Oct. 24, 1951, Serial No. 620,410.



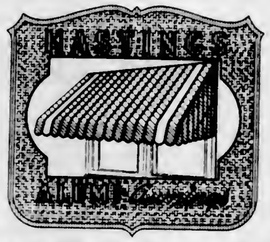
The drawing is lined for yellow and blue.
For Seeds—Namely, Vegetable, Flower, and Grass Seeds.
Claims use since Aug. 31, 1950.

585,168. (Class 18. Medicines and Pharmaceutical Preparations.) Moorman Manufacturing Company, Quincy, Ill. Original filed, act of 1946, Principal Register, Oct. 30, 1951; amended to application, Supplemental Register, July 21, 1953, Serial No. 620,681.

SUPER 5

For Mineralized Concentrate Used as a Poultry Feed Supplement.
Claims use since Sept. 25, 1951.

585,169. (Class 12. Construction Materials.) Metal Tile Products, Inc., Hastings, Mich. Original filed, act of 1946, Principal Register, Jan. 2, 1952; amended to application, Supplemental Register, Jan. 8, 1953, Serial No. 623,062.



The drawing is lined for yellow, green and red.
For Aluminum Awnings and Shelter Canopies.
Claims use since December 1950.

585,170. (Class 1. Raw or Partly Prepared Materials.) United States Raw Skins Tanners Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 26, 1952; amended to application, Supplemental Register, Nov. 9, 1953, Serial No. 627,101.



For Leather.
Claims use since May 4, 1951.

585,171. (Class 50. Merchandise Not Otherwise Classified.) Old Copper Mine Farms Inc., Warrenville, N. J. Original filed, act of 1946, Principal Register, Apr. 2, 1952; amended to application, Supplemental Register, Nov. 6, 1953, Serial No. 627,457.

ORCHIDARIUM

For Miniature Greenhouses Equipped With a Thermostatically Controlled Heating System and Irrigation System.
Claims use since Feb. 21, 1952.

585,172. (Class 46. Foods and Ingredients of Foods.) Creamery Sales Company, Inc., doing business as Creamery Sales Co., East Point, Ga. Original filed, act of 1946, Principal Register, Apr. 24, 1952; amended to application, Supplemental Register, Nov. 9, 1953, Serial No. 628,613.

Rite-Pack

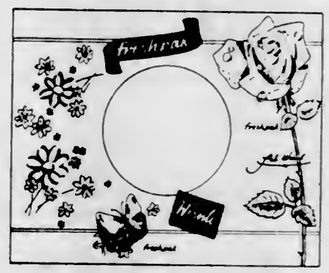
For Ice Cream Sandwiches.
Claims use since Jan. 11, 1951.

585,173. (Class 46. Foods and Ingredients of Foods.) Weston Biscuit Company Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va. Original filed, act of 1946, Principal Register, July 10, 1952; amended to application, Supplemental Register, Oct. 26, 1953, Serial No. 632,404.

TOAST-O-MALTO

For Cakes, Cookies, and Crackers.
Claims use since May 26, 1952.

585,174. (Class 46. Foods and Ingredients of Foods.) Gebr. Wernli, Biscuitsfabrik Trimbach-Olten, Trimbach, Switzerland. Original filed, act of 1946, Principal Register, Aug. 22, 1952; amended to application, Supplemental Register, July 6, 1953, Serial No. 634,325.



Priority under Sec. 44(d). Swiss Registration No. 141,833, filed Feb. 26, 1952.
For Biscuits and Cookies.

585,175. (Class 30. Crockery, Earthenware, and Porcelain.) Ardalt Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 29, 1952; amended to application, Supplemental Register, Oct. 29, 1953, Serial No. 634,626.

VERITHIN EGGSHELL

For Vases, Flowerpots and Boxes, Dishes, Porcelain Jars, Made From Earthenware or Porcelain.
Claims use since July 3, 1952.

585,176. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Utica Drop Forge & Tool Corporation, Utica, N. Y. Original filed, act of 1946, Principal Register, Oct. 1, 1952; amended to application, Supplemental Register, Sept. 15, 1953, Serial No. 636,039.

RIB-JOINT

For Pliers.
Claims use since on or about Sept. 5, 1952.

585,177. (Class 44. Dental, Medical, and Surgical Appliances.) American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952, Serial No. 637,679.

NUGENT

For Endoscopic Instruments—Namely, Resectoscopes and Components Thereof.
Claims use since September 1950.

585,178. (Class 44. Dental, Medical, and Surgical Appliances.) American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952, Serial No. 637,680.

MILLER

For Endoscopic Instruments—Namely, Electrosurgical Resectoscopes and Components Thereof.
Claims use since April 1950.

585,179. (Class 44. Dental, Medical, and Surgical Appliances.) American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952, Serial No. 637,682.

GIBSON

For Endoscopic Instruments—Namely, Resectoscopes and Components Thereof.
Claims use since July 1949.

585,180. (Class 44. Dental, Medical, and Surgical Appliances.) American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952, Serial No. 637,683.

IGLESIAS

For Endoscopic Instruments—Namely, Resectoscopes and Components Thereof.
Claims use since January 1951.

585,181. (Class 44. Dental, Medical, and Surgical Appliances.) American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952, Serial No. 637,684.

CREEVY

For Endoscopic Instruments—Namely Resectoscopes and Components Thereof.
Claims use since July 1949.

585,182. (Class 44. Dental, Medical, and Surgical Appliances.) American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952, Serial No. 637,688.

HOLINGER

For Endoscopic Instruments—Namely, Esophageal Resectors and Bronchoscopes, and Components Thereof.
Claims use since March 1950.

585,183. (Class 44. Dental, Medical, and Surgical Appliances.) American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952, Serial No. 637,689.

McCREA

For Endoscopic Instruments—Namely, Cystoscopes and Components Thereof.
Claims use since 1950.

585,184. (Class 44. Dental, Medical, and Surgical Appliances.) American Cystoscope Makers, Inc., New York, N. Y. Filed Nov. 6, 1952, Serial No. 637,690.

MELTZER

For Endoscopic Instruments—Namely, Nasopharyngoscopes and Components thereof.
Claims use since May 1950.

585,185. (Class 46. Foods and Ingredients of Foods.) Southland Coffee Company, Inc., Atlanta, Ga. Original filed, act of 1946, Principal Register, July 30, 1953; amended to application, Supplemental Register, Oct. 26, 1953, Serial No. 651,135.

50 cup

For Blend of Coffee and Chicory.
Claims use since October 1950.

TRADE-MARK REGISTRATIONS RENEWED

40,916. OLD CURIO. Registered Aug. 11, 1903. Peter Dawson, Dufftown, Scotland. Re-renewed Aug. 11, 1953, to Peter Dawson Limited, Glasgow, Scotland, a limited liability company registered under the laws of Great Britain. Scotch Whisky. Class 49.

40,972. "& Co" AND REPRESENTATION OF TWO BEES. Registered Aug. 18, 1903. Bailey & Blendinger Mfg. Co., Woburn, Mass. Re-renewed Aug. 18, 1953, to Committee of Creditors for Bailey & Blendinger Co., Inc., Union, N. H. Machine-Knives, Belt-Knives, and Leather-Knives. Class 23.

41,127. MERCÉDÈS. Registered Sept. 15, 1903. Daimler-Motoren-Gesellschaft, Cannstadt, Germany. Re-renewed Sept. 15, 1953, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany, a corporation organized under the laws of Germany. Carriages of All Kinds, Including Motor-Cars, Motor-Lowries, Motor-Cycles, Etc. Class 23.

91,856. G. DAIMLER. Registered June 3, 1913. Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Re-renewed June 3, 1953, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany, a corporation organized under the laws of Germany. Machinery Castings, Anchors, Bed-Plates, Etc. Class 14.

91,951. G. DAIMLER. Registered June 10, 1913. Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Re-renewed June 10, 1953, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany, a corporation organized under the laws of Germany. Picture-Frames, Mirrors, Bedsteads, Etc. Class 32.

91,952. G. DAIMLER. Registered June 10, 1913. Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Re-renewed June 10, 1953, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany, a corporation organized under the laws of Germany. Soldering-Lamps, Hot-Water Foot-Warmers, Foot-Warmers Heated by Liquid or Solid Fuel, Etc. Class 34.

93,082. G. DAIMLER. Registered Aug. 19, 1913. Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Re-renewed Aug. 19, 1953, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany, a corporation organized under the laws of Germany. Saws, Hammers, Chisels, Spanners, Wrenches, Etc. Class 23.

93,698. G. DAIMLER. Registered Oct. 14, 1913. Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Re-renewed Oct. 14, 1953, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany, a corporation organized under the laws of Germany. Carriages, Cabs, Coaches, Carts, Etc. Class 19.

94,066. MERCEDES. Registered Nov. 4, 1913. Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Re-renewed Nov. 4, 1953, to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany, a corporation organized under the laws of Germany. Flying-Machines, Aeroplanes, Monoplanes, Biplanes, Etc. Class 19.

299,895. "GOOSE-NECK" AND DRAWING. Registered Dec. 27, 1932. Karl Seiler & Sons. Renewed Dec. 27, 1952, to Karl Seiler & Sons, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Liverwurst. Class 46.

305,744. "HEARNE BROS." ETC. Registered Aug. 22, 1933. Hearne Brothers, Detroit, Mich., a firm. Renewed Aug. 22, 1953. Periodical Street Guides and Maps. Class 38.

307,725. THO-RADIA. Registered Oct. 31, 1933. Société Secor, Paris, France. Renewed Oct. 31, 1953, to Société Secor, Vichy, France, a corporation organized under the laws of the French Republic. Toilet Preparations—Namely, Face Creams, Powders, and Paints. Class 51.

309,266. PRESENCE. Registered Jan. 9, 1934. Houbigant, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 9, 1954. Perfume, Toilet Water, Face Powder, Etc. Class 51.

309,745. "BUTTERFLY" ETC. AND DESIGN. Registered Jan. 30, 1934. Travers Bros. Renewed Jan. 30, 1954, to M. A. & Ray L. Travers, Watsonville, Calif., a firm. Fresh Deciduous Fruit. Class 46.

312,019. MAKE A MILLION. Registered Apr. 10, 1934. Parker Brothers, Inc., Portland, Maine, and Salem, Mass. Renewed Apr. 10, 1954, to Parker Brothers, Inc., Salem, Mass., a corporation of Maine. Game Played With Cards. Class 22.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 306,045. Registered Sept. 5, 1933. The American Foundry Equipment Company, Mishawaka, Ind. Republished by American Wheelabrator & Equipment Corporation, Mishawaka, Ind., a corporation of Nebraska.

WHEELABRATOR

For Machines for Discharging Streams of Abrasive Particles To Clean Castings, Sheet Metal, and the Like, and for Replaceable Blades and Other Parts Thereof.
Claims use since Apr. 29, 1933.

Reg. No. 331,464. Registered Jan. 7, 1936. Decatur Pump Company, Decatur, Ill., a corporation of Illinois. Republished by registrant.

Niagarette TRADE MARK

The word "Trademark" is disclaimed.
For Electric Water Pumps.
Claims use since Oct. 15, 1934.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 388,732. Registered July 8, 1941. Pako Corporation, Minneapolis, Minn., a corporation of Delaware. Republished by registrant.

PA-KO

For Photographic Apparatus and Equipment, Particularly Photographic Printing, Developing, Washing, Drying, Trimming Machines and Film Clips and Roll Hangers.
Claims use since on or about June 28, 1918.

Reg. No. 399,965. Registered Feb. 9, 1943. Walter J. Halpern, doing business as Gotham Instrument Company, New York, N. Y. Republished by American Machine and Metals, Inc., Sellersville, Pa., a corporation of Delaware.



For Indicating and Recording Thermometers and Various Types of Thermometers for Use in Connection With Controllers for Regulating Temperatures for Fluids of All Types.
Claims use since January 1940.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 240,642. Registered Apr. 3, 1928. P. H. Magirl Foundry & Furnace Works, Bloomington, Ill. Republished by Magirl Foundry & Furnace Co., Bloomington, Ill., a corporation of Delaware.



The word "System" is disclaimed apart from the mark as shown.
For Warm-Air Heating, Force Circulating, and Ventilating Systems as a Complete Unit or Parts Thereof Equipped for Coal, Gas, or Oil Heat Generators.
Claims use since about 1912.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 309,358. Registered Jan. 9, 1934. Camembert Industrie Heising, Hirschle & Immler, Heising, Germany, a firm of Germany. Republished by registrant.



The words "Schutz Marke" are disclaimed apart from the mark as shown.
For Cheese.
Claims use since Feb. 19, 1927.

Reg. No. 364,513. Registered Feb. 7, 1939. Excelsior Milling Company, Minneapolis, Minn., a corporation of Minnesota. Republished by registrant.



The drawing is lined for blue and red.
For Stock Food, Particularly Wheat Feed Containing Wheat Screenings, Wheat Flour, Wheat Red Dog, Wheat Middlings, and Wheat Bran.
Claims use since Jan. 1, 1925.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 306,022. Registered Sept. 5, 1933. Berry Bros. & Co., London, England. Republished by Berry Bros. & Rudd Limited, London, England, a company of the United Kingdom of Great Britain and Northern Ireland.

CUTTY SARK

For Spirits—Namely, Whisky and Other Potable Distilled Liquors.
Claims use since January 1923.

Reg. No. 307,412. Registered Oct. 24, 1933. Berry Bros. & Co., London, England. Republished by Berry Bros. & Rudd Limited, London, England, a company of the United Kingdom of Great Britain and Northern Ireland.



All wording except the firm name of applicant is disclaimed.
For Scotch Whisky.
Claims use since 1902.

Reg. No. 310,096. Registered Feb. 13, 1934. Cork Distilleries Company Limited, Morrisons Island, Cork, Ireland, a company of the Republic of Ireland. Republished by registrant.

PADDY

For Whisky.
Claims use since the year 1927.

Reg. No. 310,857. Registered Mar. 13, 1934. Cork Distilleries Company Limited, Morrisons Island, Cork, Ireland, a company of the Republic of Ireland. Republished by registrant.



For Whisky.
Claims use since the year 1868.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 306,059. Registered Sept. 5, 1933. Worcester Salt Company, New York, N. Y. Republished by Morton Salt Company, Chicago, Ill., a corporation of Illinois.



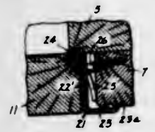
The words "Salt" and "Tooth Paste" are disclaimed apart from the mark as shown. The drawing is lined for yellow or orange.
For Tooth Paste.
Claims use since Dec. 17, 1931.

REISSUES

JANUARY 26, 1954

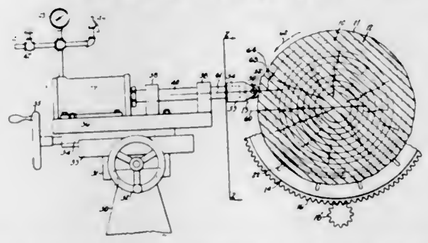
Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,775
PANEL CLOSURE
Joseph H. Oswald and Frederick G. Oswald, South Euclid, Ohio
Original No. 2,583,439, dated January 22, 1952, Serial No. 685,262, July 20, 1946. Application for reissue February 2, 1953, Serial No. 334,770
15 Claims. (Cl. 20—55)



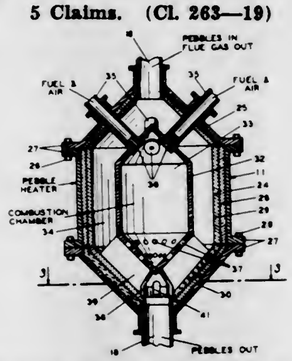
2. As an article of manufacture, an inverted U-shaped adaptor frame for panel structures formed of metal bar stock of approximately Z-shaped cross section having a longitudinally extending web part disposed substantially at right angles to the plane of the frame, a continuous flange part extending outwardly from one edge of the web part, and a second continuous flange extending inwardly from the other edge of the web part, the top and sides of said frame having a plurality of bendable lugs extending outwardly at an inclination from the web part and transversely thereto toward the outwardly-extending flange.

23,776
METHOD OF BARKING LOGS
Robert D. Pauley, Tacoma, and Louis A. McCanna, Spokane, Wash., assignors to Weyerhaeuser Timber Company, Longview, Wash., a corporation of Washington
Original No. 2,576,966, dated December 4, 1951, Serial No. 691,762, August 20, 1946. Application for reissue May 11, 1953, Serial No. 354,441
15 Claims. (Cl. 144—309)



10. The method of barking a log such as used for the production of wood veneer, pulp and the like, comprising impressing against the surface of the log an approximately radially directed compressive force over an area of small dimensions relative to the diameter of the log to follow the contour of the log, and moving the compressive force longitudinally and circumferentially of the log, said force being of sufficient intensity to compress the bark and cause failure of the bond between the bark and the remainder of the log.

23,777
PEBBLE HEATING CHAMBER FOR PEBBLE HEATERS
Sam P. Robinson, La Porte, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Original No. 2,541,548, dated February 13, 1951, Serial No. 692,721, August 23, 1946. Application for reissue January 31, 1952, Serial No. 269,151
5 Claims. (Cl. 263—19)



1. Apparatus for heating pebbles in a flowing stream which comprises a substantially vertical vessel closed on either end and enclosing a single centrally positioned walled combustion chamber surrounded by an adjacent pebble passageway on all sides including the top and bottom, support means for such combustion chamber, conduit means for introducing a combustible gas mixture into said combustion chamber, means for passing combustion gas from the lower portion of said combustion chamber into said pebble passageway, gas outlet means in the upper portion of said vessel, pebble inlet means in the upper portion of said vessel positioned directly above said combustion chamber, and pebble outlet means in the lower portion of said vessel.

PLANT PATENTS

GRANTED JANUARY 26, 1954

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,247
PEACH TREE
Frederic W. Anderson, Merced, Calif.
Application March 17, 1953, Serial No. 343,005
1 Claim. (Cl. 47—62)

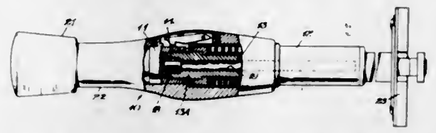
A new and distinct variety of peach tree, as described and illustrated, bearing large size, firm, meaty and melting, yellow fleshed freestone fruit having yellow skin with substantial overspreading of red; characterized—in comparison with the J. H. Hale peach—by a ripening period three to four days earlier; of substantially the same size but more red exterior color; self-fertile instead of self-sterile flowers; having red instead of yellow anthers; and less acidity with better eating quality; and further characterized by a tree which is larger, more vigorous, and more productive than the J. H. Hale peach tree.

PATENTS

GRANTED JANUARY 26, 1954

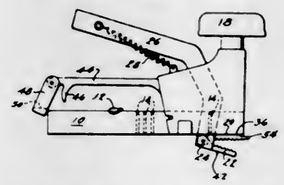
GENERAL AND MECHANICAL

2,666,915
STUD DRIVING TOOL
Virginius R. Erickson, Portland, Oreg., assignor to Powder Power Tool Corporation, Portland, Oreg., a corporation of Oregon
Application March 2, 1951, Serial No. 213,549
7 Claims. (Cl. 1—44.5)



1. In a stud driving tool, a barrel having a longitudinal bore therein enlarged at one end, a breech plug insert mounted in the enlarged portion of said bore, means in said breech plug for holding a cartridge, a sleeve member, means for seating said sleeve member in said barrel adjacent said breech plug insert, said sleeve member having a series of spring members for holding a stud in spaced relation to a cartridge in said breech plug insert.

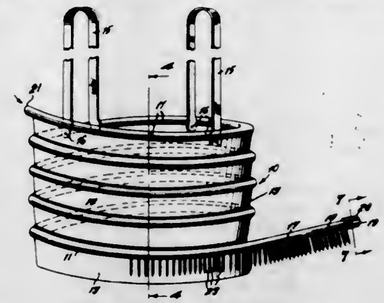
2,666,916
COMBINED STRETCHING AND STAPLING DEVICE
William Spiegel and Jacob Spiegel, Philadelphia, Pa.
Application November 2, 1950, Serial No. 193,552
1 Claim. (Cl. 1—45.6)



A combined stapling and stretching device including a magazine adapted to contain staples, a driving hammer, means for moving said staples to a position in which they can be struck by said hammer, a fixed jaw carried by, and projecting below, the face of the device which faces the material into which the staples are to be driven, a movable jaw pivoted below said fixed jaw, and a lever for moving said movable jaw to a first position in which it abuts said fixed jaw, and to a second position in which it is spaced from said fixed jaw, the abutting surfaces of said jaws being roughened for frictional engagement with said material.

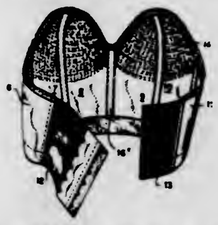
2,666,917
NAIL FEEDER
Rulon W. Brimhall, Pleasant Grove, Utah
Application July 28, 1950, Serial No. 176,484.
8 Claims. (Cl. 1—49.7)

1. A holder and dispensing device for headed fasteners comprising a helically coiled tube formed of a resilient material including a plurality of convolutions disposed one above the other, said tube having a slot in the bottom thereof extending from end-to-end of the tube, said tube being adapted to receive therein the heads of a



plurality of fasteners the shanks of which are adapted to extend downwardly through said slot, the convolutions of the tube being pitched whereby the fasteners will slide therealong from the end of the upper convolution to the end of the lower convolution.

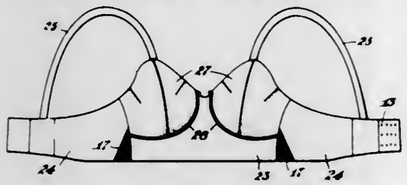
2,666,918
BRASSIÈRE
William Rosenthal, Bayville, N. Y.
Application November 29, 1951, Serial No. 258,897
1 Claim. (Cl. 2—42)



A strapless brassière having a diaphragm encircling base line consisting of a right and left element having breast receiving pockets therein, each element consisting of a pair of coacting substantially trapezoidal panels having rectangular base sections and joined together vertically along the longest side of said trapezoids, a tape sewn interiorly of said panels over said joined longest edges and secured to each of said panels, said joined longest edges of said trapezoid being disposed outwardly adjacent the top thereof to form said breast receiving pockets, the said elements being themselves sewn together at a line intermediate said breast receiving pockets, thereby forming a V-shaped configuration in the front of said brassière, a top outwardly disposed depending flexible strip and a bottom upright flexible strip having an outwardly disposed portion adjacent its top overlapping the bottom of the top strip, said strips being disposed between said

tape and said joined trapezoidal panels with the overlap of the strips being disposed in a median portion of said breast receiving pockets, and means for detachably and flexibly securing said pair of elements together.

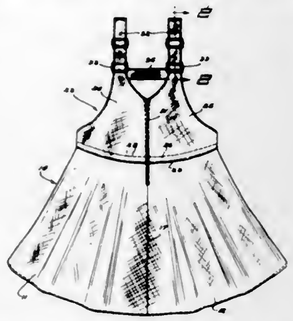
2,666,919
MATERNITY AND NURSING BRASSIÈRE
Laurence C. Spangard, deceased, late of Hollywood, Calif., by Lee Banister, executor, Hollywood, Calif., assignor to Nu-Lift Bra, Inc., Hollywood, Calif., a corporation of California
Application October 14, 1952, Serial No. 314,618
2 Claims. (Cl. 2—42)



1. In a nursing brassière embodying a pair of breast cups each having an upper portion, an outer side margin, and a lower margin leading from said side margin; each of said cups being formed with an inner flap portion having a curved lower edge and an inner edge curved upwardly in continuation of said lower edge, a front panel having ends and formed with an upper margin conforming to said lower margin of said cups and attached thereto, said panel also having an intermediate portion extending upwardly between said cups formed with curved margins conforming to the lower and inner edges of said flap portions, said flap portions being movable outwardly to open the cups and expose the breasts of the wearer for nursing, slide fastening elements secured to the upper margin of the panel and to the lower and inner edges of the flaps for detachably holding the flaps in a position closing the cups; arcuate cup members attached to the upper margin of the panel having curved end portions extending upwardly and outwardly from the intermediate portion of said panel and lying beneath said flaps and having upper ends joined to the upper portions of the cups, said arcuate cup members underlying said flaps so as to afford a partial support for the breasts while the cups are open, bands joined to the ends of the panel for fastening the brassière around the body of the wearer, and shoulder straps connecting said bands to the upper portions of said cups at the juncture therewith of the upper ends of the arcuate cup members therewith.

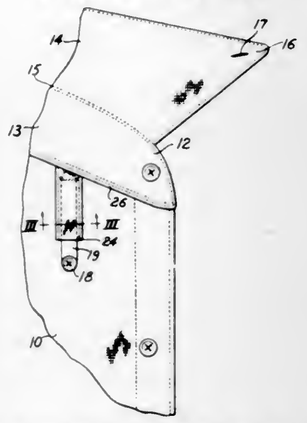
2,666,920
DRESS
Harry Lang, St. Paul, Minn.
Application September 11, 1952, Serial No. 309,050
1 Claim. (Cl. 2—75)

A dress comprising a skirt consisting of a pair of downwardly diverging, longitudinally extending pieces at the front of the dress and four downwardly diverging, longitudinally extending pieces at the rear of said dress, vertical seams interconnecting all of said downwardly diverging, longitudinally extending pieces of said skirt, there being a first vertical seam at the center of the front of the skirt, a second vertical seam at the center of the rear of said skirt, third and fourth vertical seams midway between said first and second vertical seams at opposite sides of the skirt and fifth and sixth vertical seams midway between the second vertical seam and said third and fourth vertical seams, respectively, a bib consisting of a pair of longitudinally extending pieces constituted as upper continuations of said longitudinally extending pieces at the front of said dress, each of said longitudinally extending pieces of said bib including a first longitudinal side edge having an upper concave portion and a lower straight portion at the inner side of the bib and a second longitudinal side edge of curvilinear configuration at the outer side of



said bib extending substantially to the upper extremities of the longitudinally extending pieces of said skirt, said straight lower portions of the longitudinally extending pieces of said bib and upper central portions of said longitudinally extending pieces of the skirt at the front of the dress being detachably connected to form a front closure extending downwardly from the top of said garment, and shoulder straps connected between upper extremities of said longitudinally extending pieces of said bib at the front of said dress and a part of the dress at the center of the rear thereof at the elevation of upper extremities of the longitudinally extending pieces of said skirt.

2,666,921
COLLAR HOLDING DEVICE
George W. Ruane, Cincinnati, Ohio
Application February 25, 1952, Serial No. 273,224
2 Claims. (Cl. 2—116)



1. In a shirt having a body and an attached collar having buttonholes in the collar adjacent the points of the collar, a collar point hold-down and tensioning device which comprises a slideway secured to the body of the shirt at a location

behind each point of the collar and extending toward the point, an elongated flat stiff sliding member in each slideway, a button attached to one end of each sliding member and engageable with the buttonhole in the one of the collar points associated therewith, and a spring attached to each sliding member and engaging the slideway to stress the sliding member in compression, whereby each collar point is stressed in tension.

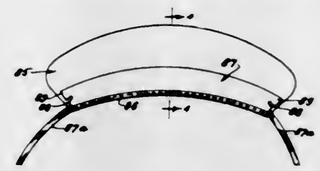
2,666,922
FLEXIBLE PROTECTIVE SHIELD
Ugo Torricelli, New York, N. Y., assignor to Torricelli Creations, Inc., New York, N. Y.
Application December 14, 1950, Serial No. 200,786
1 Claim. (Cl. 2—174)



A hat-like protective shield for use upon and about a person's head comprising a brim consisting of a strip of flexible sheet material of a uniform thickness throughout its length and width, said strip being substantially U-shaped for a major portion of its length and terminating in outwardly widened end portions converging rearwardly, said end portions having inner side edges merging into and constituting continuations of the inner side edge of the U-shaped portion, end edges of said end portions being arcuate transversely of the full width thereof and merging into inner and outer side edges of the U-shaped portion of the strip, said strip being formed along the inner edge of its U-shaped portion with a line of perforations, a band of soft flexible material extending along said strip under the inner edge of the U-shaped portion thereof and formed with perforations aligned with the perforations in said strip, a net constituting a crown for the shield and having front and side portions of its marginal edge disposed between said band and the perforated edge portion of said strip and having a free rear edge portion extending between the ends of the band, and a tie cord laced in and out through the openings in the strip and the band and through the marginal portion of the net between the band and the strip and having elongated free end portions of a length adapting them to be tied together and draw the enlarged end portions of the strip into overlapping relation to each other at the back of a person's head.

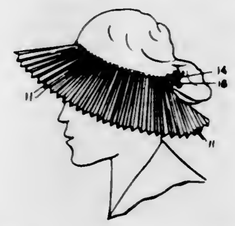
2,666,923
WORKER'S HEAD COVERING
Elaine Berg, Chicago, Ill.
Application November 29, 1951, Serial No. 258,784
3 Claims. (Cl. 2—174)

1. In a head covering of the type utilizing a hairnet of mesh material having its periphery gathered and provided with an elastic band, the improvement which comprises a combined visor and facing shield of smooth, shiny, flexible plastic sheet material having sufficient stiffness to maintain a substantially cylindrical curvature, said shield having a concave curved edge and being adapted to fit the head of the wearer when the shield is in head engaging position, and an anchor comprising a flexible strip of sheet material arranged with one edge secured to the shield along the concave curved edge of said shield, and said anchor extending upwardly away from said curved edge forming a tapered groove between the anchor and shield for receiv-



ing the edge of said hairnet, said anchor being provided adjacent each end of the anchor with an inwardy extending slot forming projecting tabs for engaging in the meshes of the hairnet, the elastic band being stretched and released in said slots to retain the net which is adapted to be removably received on the anchor and in the tapered slot between the shield and anchor.

2,666,924
PLEATED PROTECTIVE SHIELD
Ugo Torricelli, New York, N. Y., assignor to Torricelli Creations, Incorporated, New York, N. Y., a corporation of New York
Application December 29, 1951, Serial No. 264,139
4 Claims. (Cl. 2—174)



1. A pleated protective shield adapted to be retracted into a compact package and to be expanded into circular form for application about the head of a wearer, which comprises a strip of sheet material of uniform width from end to end and folded upon itself a plurality of times to provide a series of individual pleats, a tab projecting from one end of each such pleat and bendable with respect to its pleat at an angle other than a right angle, succeeding tabs being separated by notches in the sheet material and each such pleat being provided with a hole adjacent one side of the pleat and near the tab thereof and a tie element threaded through said holes and adapted to be secured at the back of the head of the wearer.

2,666,925
HEADGEAR
Lazare Mayer, Chicago, Ill.
Application November 1, 1950, Serial No. 193,467
2 Claims. (Cl. 2—198)

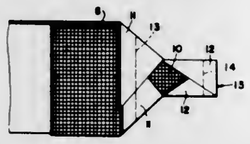
1. A head-covering of the class described comprising a substantially cylindrical head encircling portion and a substantially flat head covering portion permanently joined at their adjacent margins to form the head receiving portion of said covering, a substantially rectangular shaped

flap portion having a pair of parallel shorter marginal edges, one of the shorter marginal edges of said flap portion being permanently connected to a section of the periphery of the head encircling portion in a manner to encompass approximately three-quarters of the circumference of the head encircling portion along the sides and rear thereof, the said flap portion extending



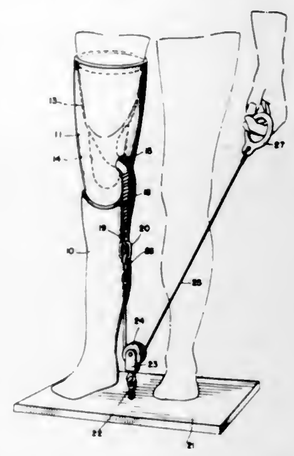
downwardly a sufficient distance and being adapted to cover all the hair of the wearer when said covering is in wearing position, and means positioned along the other shorter marginal edge of said flap portion to gather said marginal edge between two spaced apart points, thereby forming a pocket, pouch or snood to receive and hold the hair from displacement.

2,666,926
BUCKLE AND LIKE MOUNTING
Marcus Manly Isaacs, St. Leonards, New South Wales, Australia
Application March 25, 1950, Serial No. 151,968
3 Claims. (Cl. 2—338)



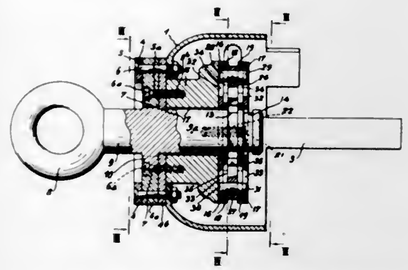
1. A fastening means for securing buckles forming a loop to articles of clothing, formed from a strip of material having a square end from the two corners of which extend inclined incisions inwardly into the strip so as to form two triangular flaps at each said two corners, a strip of stiffening material of the same width as said first named strip being positioned on one side of the latter and being provided with a narrow rectangular tongue having parallel longitudinal edges, the outer end of said tongue extending to the square end of said strip of material, and inclined shoulders between the inner end of the tongue and the outer edges of the strip of stiffening material, said incisions in said strip of material terminating adjacent the inner end of the tongue where the inclined shoulders of the stiffening strip begin, two of said triangular flaps being folded along said inclined shoulders over said stiffening and the two other flaps being folded along said parallel longitudinal edges of said rectangular tongue over the same, said tongue as covered by said last named flaps extending through the loop of the buckle and being folded about a line extending between the inner ends of said incisions upon the flaps folded about said inclined shoulders and being fixedly secured thereto.

2,666,927
ARTIFICIAL LEG JACK
Joseph H. Morheiser, Chicago, Ill.
Application November 14, 1952, Serial No. 320,397
4 Claims. (Cl. 3—1)



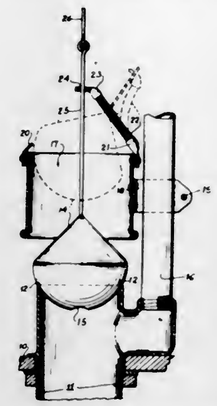
1. An artificial leg jack, comprising a foot rest, a pulley attached thereto, a pull cord passing over said pulley having a hand grip at one end and a stump stocking at the other end.

2,666,928
TOOLHOLDER DEVICE FOR PROSTHESIS APPARATUS FOR THE UPPER LIMBS, TO BE SECURED ON THE STUMP OF AN AMPUTATED ARM
Jean Ameline, Sceaux, France
Application November 10, 1952, Serial No. 319,749
Claims priority, application France July 7, 1949
4 Claims. (Cl. 3—12.8)



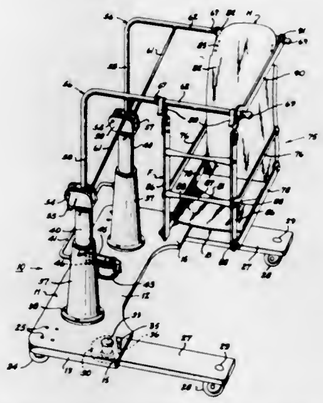
1. A tool holder device for prosthesis apparatus for the upper limbs, comprising a cap, two attachment arms secured to the rear of the cap, a part provided with a star-shaped recess, means for securing said recessed part to the front of the cap, a bored part in the cap and secured to the rear of the recessed part, two fixed discs secured to the rear of said bored part, two movable discs interposed between said two fixed discs, two cooperating jaws interposed between said two movable discs, a control knob secured to said two movable discs, means connecting the jaws with the movable and fixed discs, a tool, a star, and a stem supporting said tool and said star and engaged in the recessed and bored parts and in the fixed and movable discs.

2,666,929
FLUSH BALL GUIDE
Louis W. Schnepp, San Bernardino, Calif.
Application May 21, 1951, Serial No. 227,389
1 Claim. (Cl. 4—57)



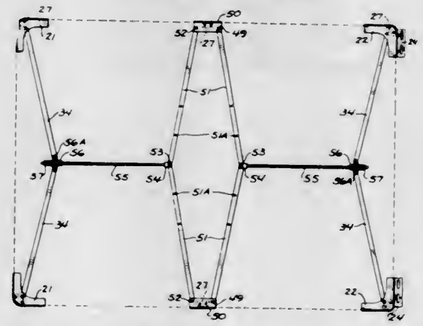
The combination with a flush tank, its outlet pipe, its overflow pipe, a ball valve which closes said outlet pipe and a pull rod attached to the upper end of said ball, of an open ended cylinder mounted for vertical adjustment on said overflow pipe above said outlet pipe and said ball valve, a flexible guide mounted on the upper portion of said cylinder and extending upwardly and inwardly from the wall of said cylinder and a bearing on the upper end of said flexible guide for said pull rod.

2,666,930
APPARATUS FOR HANDLING RECUMBENT PERSONS
John E. Lenahan, Cornwall-on-Hudson, N. Y.
Application September 9, 1947, Serial No. 772,911
4 Claims. (Cl. 5—86)



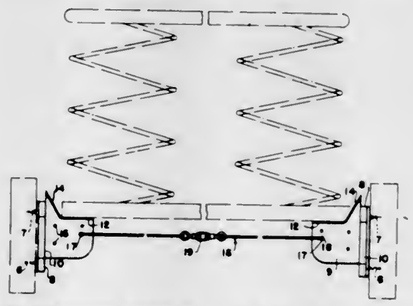
1. Apparatus for moving a recumbent person to a sitting position and transferring him in that position comprising a movable platform having vertically adjustable means connected thereto, carrier supporting means connected to said vertically adjustable means for supporting a carrier at a fixed distance from said vertically adjustable means, a carrier, said carrier comprising a base panel having a surface area sufficient to receive a part of the upper portion of the lower limbs of the person thereon, a head panel having a surface area sufficient to receive the head and torso thereon, an end frame opposite said head panel, means connecting said base panel, head panel and end frame in detachably hinged end to end relation, means detachably connecting said head panel and end frame to maintain said head panel and end frame in a position in which said head panel and end frame extend upwardly from said base panel, and means on the upper ends of said head panel and end frame for detachably connecting said carrier to said carrier supporting means.

2,666,931
ADJUSTABLE BEDSTEAD
Leonard F. Clerc, Detroit, Mich.
Application February 23, 1949, Serial No. 77,919
7 Claims. (Cl. 5—181)



3. In a device of the character described in combination, a plurality of independent corner members arranged in pairs and a pair of independent short side members, each of said corner members and said side members having means for supporting a leg and caster assembly, pivoted cross arms connecting the corner members of each pair, intermediate cross arms pivoted to said side members, and threaded means connected to said cross arms for simultaneously moving said cross arms and said intermediate cross arms.

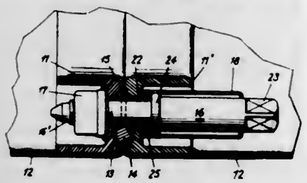
2,666,932
BEDSPRING HOLDER
Frank J. Ressler and Thomas Mark Shockey, Baltimore, Md.
Application December 6, 1950, Serial No. 199,464
1 Claim. (Cl. 5—207)



A bed spring support comprising an attaching plate having bed attaching means formed thereon, a pair of spaced pin receiving elements formed centrally on one face of said plate adja-

cent the top and bottom thereof, a supporting bracket, a barrel formed on the rear edge of said bracket, said barrel fitted between the opposing faces of said elements of the attaching plate and adapted to be moved in different positions, a pin locking means removably arranged in said elements and barrel to retain said bracket in operative or inoperative position relative to said attaching plate, and bed spring supporting means formed on the upper edge of said bracket.

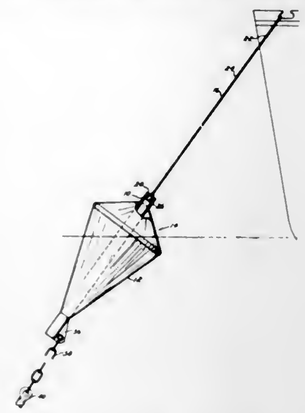
2,666,933
SECTIONAL BOAT
Hansjörg Engensperger, Rorschach, Switzerland
Application December 1, 1950, Serial No. 198,513
4 Claims. (Cl. 9—2)



1. A sectional boat comprising a plurality of individual transverse sections, flange means at the ends of each section, coaxial apertures in the adjacent flange means of two neighboring sections when the boat is assembled, sleeve means individually having a neck portion at one end, said neck portions being individually inserted in the apertures of and connected with one of the adjacent flange means, said sleeve means having a throat at the end opposite the end having the neck portion, a bolt in each of said sleeve means having one end extending outside of the sleeve means through said throat, the other end of said bolt being threaded and extending outside of the sleeve means through the end having the neck portion, a collar on said bolt inside said sleeve means, said collar having an outside diameter greater than the diameters of said throat and of said neck portion and preventing removal of said bolt from said sleeve means, and internally threaded portions connected with and adjacent to the apertures of the flange means adjacent to the flange means into the apertures of which the sleeve means are inserted, said internally threaded portions individually receiving the threaded ends of said bolts.

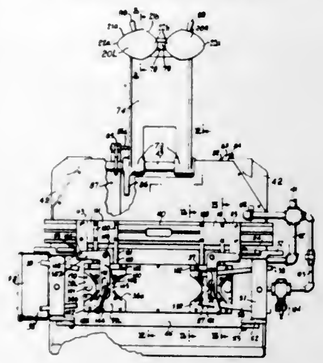
2,666,934
MOORING BUOY AND CABLE
Edward J. Leifheit, Port Washington, N. Y.
Application June 28, 1950, Serial No. 170,933
4 Claims. (Cl. 9—8)

1. A mooring buoy and cable device comprising an elongated buoyant casing having an axially positioned hollow tube therein, the ends of which extend outwardly of the casing, one end of said tube being open, a cap secured to the other end of the tube and having an opening therein, a mooring cable extending freely through said opening and through said tube, said cable having a mooring eye formed at one end and providing a cable portion larger than said opening for preventing withdrawal of said cable from said tube when the cable is moved in one direction relative to the tube, means connected to the cable at the other end thereof and being smaller than the diameter of the tube so as to be movable freely therein and being larger than said opening for engaging said cap for preventing withdrawal of the cable from the tube when the cable is moved in the opposite direction relative to the tube, and means separate from the mooring



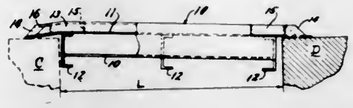
cable and including an anchor lug secured to the tube adjacent its open end for anchoring said casing.

2,666,935
MACHINE FOR SHAPING LEATHER BLANKS INTO SHOE COMPONENTS SUCH AS TOE CAPS
Alfred G. Gilbert, South Acton, and William H. Rogers, Jr., Malden, Mass., assignors to Reece Folding Machine Company, Woburn, Mass., a corporation of Maine
Application May 11, 1948, Serial No. 26,254
8 Claims. (Cl. 12—64)



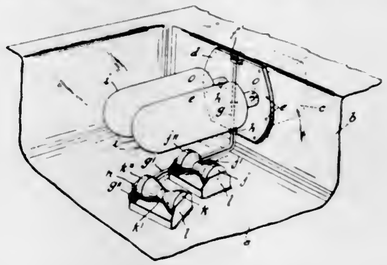
5. A machine for shaping leather blanks into shoe components, as toecaps, comprising a reversible formplate member having primary and secondary forming outlines of thick edge section, with mountings and means to cause lowering and rising movements toward and from the blank shaping position; a moldplate recessed to cooperate with the outline of the formplate, such that when the formplate is lowered it thrusts the blank into such recess thereby to shape its body and upturn its margins; and a reversible inbender member above said moldplate having primary and secondary outlines cooperative with the outlines of the formplate member, with mountings and means to cause inward bending and outward return movements thereof, thereby forcibly to inbend the upturned blank margins snugly over the thick edges of the formplate; at least one of said members having a spring-pressed shiftable shank, and being mounted thereby in a manner with the member normally locked but adapted to be unlocked by shifting its shank to permit reversal of the member.

2,666,936
DOCK PLATE
Thomas O. Palmer, Chicago, Ill.
Application April 29, 1949, Serial No. 90,475
4 Claims. (Cl. 14—72)



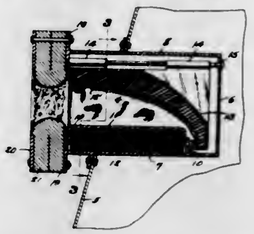
1. In a dock plate, a pair of spaced and inwardly directed side channels, spaced cross beams supported upon the lower flanges of said side channels and having their end portions welded to said side channels, the upper surfaces of said cross beams being below the upper flanges of said side channels, a dock plate supported upon said cross beams and secured thereto, and filler plates secured between said dock plate and the outer edges of the top flange of each side channel to form box section rails to reinforce said structure.

2,666,937
APPARATUS FOR WASHING AND CLEANING CROCKERY, COOKING UTENSILS, AND THE LIKE
Arthur E. Bennetts, London, England, assignor to Messrs. Staines Kitchen Equipment and Company Limited, London, England
Application July 27, 1950, Serial No. 176,134
5 Claims. (Cl. 15—74)



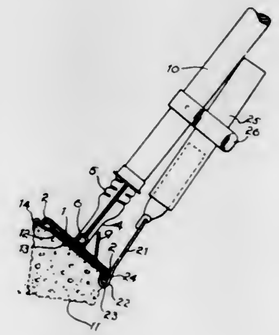
1. In a device for washing crockery and the like, comprising a sink for holding washing water, a pair of oppositely rotatable and horizontally mounted brushes positioned in the sink so as to normally be immersed in the washing water, means normally immersed in the washing water for supporting an article of crockery by its edge in a vertical position between said brushes, said brushes, as they rotate, serving to grip a part of the supported article and simultaneously clean both sides of the thus supported article and to impart a revolving motion thereto, said supporting means comprising at least two rollers, one of which is positioned with its axis at an angle to the axis of the adjacent roller, the axis of said thus positioned roller being at an angle to that of the brushes, whereby a lateral twist is imparted to the supported article as it is revolved by the brushes.

2,666,938
SHOE POLISHING WAX APPLICATOR
George C. Jamieson, Oakland, Calif., assignor to Douglass Automatic Shoeshining Co., Inc., Oakland, Calif.
Application August 12, 1948, Serial No. 43,807
1 Claim. (Cl. 15—118)



A shoe polishing applicator comprising a housing having an open end adapted to be secured within an opening in the front wall of a shoe polishing machine, the open end of said housing adapted to be disposed outwardly of said front wall, a pair of shoe paste applying members swinging about a horizontal axis, mounted within the housing movable towards and away from each other above the bottom thereof, said paste applying members being spaced apart providing a shoe opening in alignment with the open end of the housing, spaced upstanding flanges within said housing rising from the bottom of the housing, a foot rest including a block of rubber fitted between the flanges, said foot rest embodying a plate resting on the upper surface of the block of rubber, coiled springs connected between the laterally swinging shoe paste applying members and upstanding flanges normally biasing said shoe paste applying members towards each other, and a cleaning member disposed at the open front end of the housing into which a shoe to be polished, is extended, for contact with the shoe paste applying members.

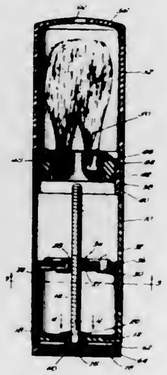
2,666,939
SELF-WRINGING MOP
Nathaniel Bryant Greenleaf and Leonard C. Webster, Toronto, Ontario, Canada, assignors, by direct and mesne assignments, to Sponge Products Corporation, Chicago, Ill.
Application December 21, 1948, Serial No. 66,452
4 Claims. (Cl. 15—119)



2. In a mop, a mop head, a compressible mopping element carried by said mop head, a wringer element and a handle member pivoted to said

mop head to swing about fixed parallel axes spaced one from the other and at right angles to the direction of mop advance, said wringer and handle being swingable in opposition in one manner into adjacent relation to assume a normal upright mopping position and swingable in opposition in an opposite manner into adjacent acute angular wringing relation to compress said mopping element between said wringer element and said head, said head having stop means between said axes to engage said wringer element and handle when swung in opposition to said upright mopping position to locate same in said mopping position, and resilient releasable means connecting said wringer element to said handle with same in the upright mopping position, whereby said wringer and handle mutually cooperate to maintain each other in engagement with said stop means.

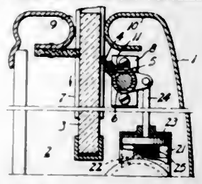
2,666,940
BRUSH
Roy W. Davison, Chicago, Ill.
Application April 13, 1949, Serial No. 87,265
4 Claims. (Cl. 15—137)



2. A fountain brush comprising, in combination: a bridge ring having a smooth outer surface in the form of a circular right cylinder and oppositely facing annular end surfaces in planes normal to the cylinder axis; the interior surface of said ring being threaded from end to end; an apertured brush structure having a threaded portion shaped to fit the threads of said bridge ring, and an abutment shoulder positioned to engage one end of said bridge ring; cup-shaped cylindrical barrels; one of said barrels having a rabbet at its open end fitting over one end of said bridge ring and permanently cemented thereto; the other of said barrels constituting a cap and having a rabbet dimensioned to be a free-sliding fit over the other end of said bridge ring.

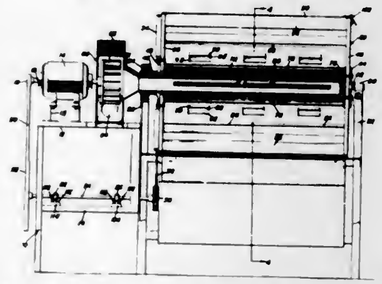
2,666,941
WINDOW CLEANER
John R. Oishei, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application December 2, 1948, Serial No. 63,137
2 Claims. (Cl. 15—250)

1. A cleaner for slidably adjustable windows of motor vehicles, comprising a wiper mountable upon a fixed axis adjacent the path of window movement, means operable yieldably to urge the wiper against a window surface, a fluid motor operatively connectible to a window for reciprocating the same, and including a motor chamber with a reciprocatory piston therein, combined with fluid operable means in communication with



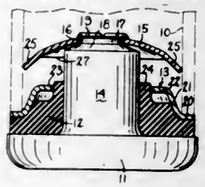
one side only of the motor chamber for lifting the wiper from the glass.

2,666,942
BRUSHLESS ERASER CLEANING MACHINE
Carl S. Coleman, Claremore, Okla.
Application July 28, 1950, Serial No. 176,497
4 Claims. (Cl. 15—305)



4. An eraser cleaning machine comprising a frame, a drum rotatably mounted on said frame, a suction pump carried by said frame, a suction tube connected to the air inlet of said pump and extending axially through one end of said drum and terminating adjacent the other end of said drum, the portion of said tube disposed within said drum having elongated slots therein extending substantially the length of the portion, a plurality of stay rods mounted within said drum arranged in concentrically surrounding relation to said tube and a protective screen for said tube surrounding said stay rods, baffle means on the inner surface of the side wall of said drum for elevating erasers as the drum is rotated, said drum side wall further having air vents therein for drawing air into the drum and through the suction tube and driving means for said drum.

2,666,943
CASTER GLIDE
Michael Kramcsak, Jr., Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Original application May 7, 1949, Serial No. 92,053. Divided and this application December 28, 1949, Serial No. 135,409
14 Claims. (Cl. 16—42)



6. In a caster glide, a base of metal, a stem rising integrally from the base, an umbrella-like

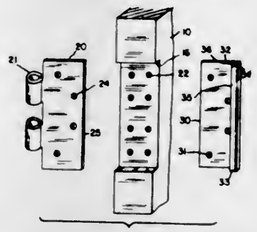
retainer of resilient material connected to the upper end of the stem in a fixed axial position and deformable by insertion into the leg, a rubber cushion of annular formation embracing the stem and supported upon the upper surface of the metal base, and a leg-supporting washer supported on the cushion at its peripheral part and having an upwardly spaced perforated portion through which the stem extends, said base having a diameter at least as great as said cushion and said washer, and said upper perforated portion of the washer having contact with the stem embracing portion of the rubber cushion and cooperating therewith to center the glide in a hollow leg supported on the peripheral part of the washer.

2,666,944
DOOR CLOSING MECHANISM
Theodore A. Stehlin, Pasadena, Calif.
Application December 20, 1950, Serial No. 201,824
10 Claims. (Cl. 16—70)



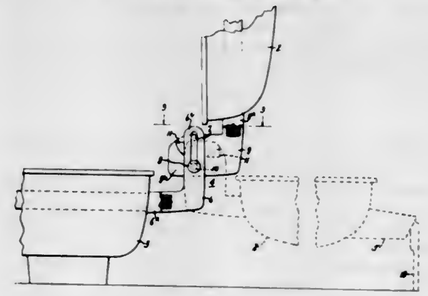
1. A closing device for a door mountable to swing outwardly on either jamb of the door framing from the same side of the door opening comprising, a cylinder, a piston within said cylinder, a piston rod extending from the piston through the cylinder in the direction away from the hinges of the door, means securing the outer end of the piston rod to the framing above the door for horizontal swinging movement relative to the framing, a cap on the opposite end of the cylinder, a casing on the door nearer the hinged side thereof, a stem rising through said casing and rigidly secured to said cap, means within the casing operatively connected with said stem to urge rotation of the stem in the direction required to swing the door into closed position, and resilient means within the cylinder for checking the piston movement at each end thereof.

2,666,945
FILLER PLATE FOR REVERSIBLE HINGES
Clyde W. Kelly, Detroit, Mich., assignor to Detroit Steel Products Company, Detroit, Mich., a corporation of Michigan
Original application April 4, 1949, Serial No. 85,383, now Patent No. 2,627,632, dated February 10, 1953. Divided and this application November 13, 1951, Serial No. 256,073
1 Claim. (Cl. 16—148)



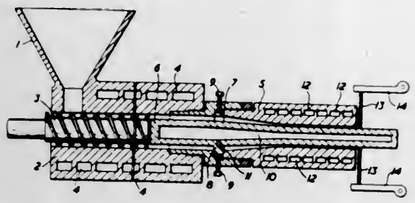
A hinge filler plate for a reversible hinge adapted to be mounted to extend toward either side of a metal door and receivable in a slot extending completely across an edge of the door, wherein the portion of the hinge received in said slot extends in said slot from one end but terminates short of the other end thereof, said hinge filler plate having a length equal to the width of the slot from one side of the door to the other and being formed of a metal plate comprising a main portion having adjacent one side thereof a bead formed by a first portion formed at right angles to the plane of the plate and extending outwardly therefrom a distance equal to the depth of the slot in the edge of the door, a second portion reversely turned to overlie the main portion of said plate and having a length equal to the amount by which the end of the hinge portion received in the slot in the edge of the door is spaced from the adjacent end of the slot, and a third portion bent to extend toward the main portion of said plate and in position to engage the end of said hinge portion, the main portion of said plate having screw receiving openings located to register with screw receiving openings in the slot of the door with its bead at either end of the slot.

2,666,946
THREE POSITION HINGE FOR COOKING APPLIANCES
Homer H. Miller, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application November 10, 1950, Serial No. 195,028
2 Claims. (Cl. 16—179)



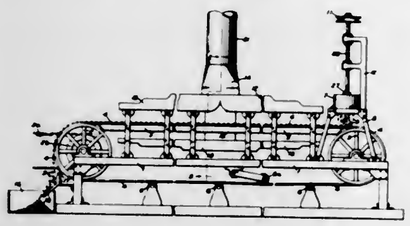
1. A hinge for use with a cooking appliance having upper and lower heating members, said hinge comprising a hinge bracket adapted to be secured on the lower heating member and having a vertically extending edge on one side thereof, a hinge bracket adapted to be secured on the upper heating member which overlaps the first named hinge bracket, a pivot pin connecting said brackets, a projection on the second named hinge bracket having a flat edge for engagement with said vertically extending edge for holding the upper heating member in an upright position with respect to the lower heating member, said projection also having a sloping outer surface, one of said brackets having a slot in which said pivot pin is located of a length to permit the upper heating member to be raised with respect to the lower heating member by an amount to bring said projection beyond the upper end of the hinge bracket on the lower heating member whereby the upper heating member may be positioned in co-planar relation with respect to the lower heating member with said projection on the other side of the hinge bracket on the lower heating member, said pivot pin connection together with the resiliency of said hinge brackets providing transverse side play sufficient to permit of the swinging of the upper heating member from such co-planar position by forcing said projection past said first-named hinge bracket.

2,666,947
APPARATUS FOR MANUFACTURING TUBULAR ARTICLES BY EXTRUSION
Harry Shaw, Whitworth, Rochdale, England, assignor to Bitumex Limited, Rochdale, England, a British company
Application November 8, 1950, Serial No. 194,590
2 Claims. (Cl. 18—14)



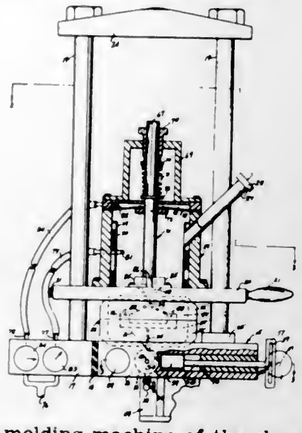
1. Apparatus for manufacturing tubular articles by extrusion comprising a hopper for containing pellets of thermo-plastic composition, a feed screw to which the outlet from said hopper leads, a heated chamber through which said pellets of thermo-plastic composition are carried by said screw, means for heating said chamber to reduce said pellets to a plastic mass, a central mandrel protruding from the heating chamber, a heated die shaped to provide an annular passage of gradually decreasing cross-section through which the plastic material is forced to form a pipe and a cutter adjacent the forward end of said die surrounding a protruding end of said mandrel.

2,666,948
APPARATUS FOR THE MANUFACTURE OF PLASTIC EXPLOSIVE PELLETS
Edgar G. Guenther and Robert C. Burton, Kingsport, Tenn., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application July 16, 1943, Serial No. 495,084
1 Claim. (Cl. 18—4)



An apparatus for the manufacture of uniformly sized and shaped high explosive pellets comprising an extrusion chamber having its sides and bottom surrounded by steam jacketing forming therewith a steam space having inlet and outlet connections thereto, bottom openings in said chamber connected by pipe portions leading through said steam space and said jacket, a rotatably mounted S-shaped anchor agitator having upturned ends, said agitator cooperating with said pipe portions to move a plastic explosive composition therethrough, a flexible conveyor mounted beneath said chamber for receiving and moving said extruded material, supporting means for dampening the vibration of said conveyor while in motion, and means for cooling said extruded material on said conveyor.

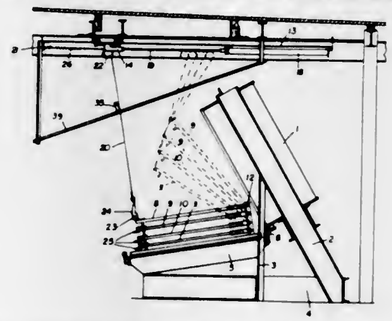
2,666,949
MOLDING MACHINE
Edward M. Stankewich, South Ozone Park, N. Y.
Application September 27, 1950, Serial No. 186,944
7 Claims. (Cl. 18—5.7)



1. In a molding machine of the character described, the combination of a melting chamber, a mold having a mold cavity with an entrance passage thereto and an exit passage therefrom; said entrance passage being communicative with the melting chamber to receive molten substance therefrom, a valve for controlling the flow of molten material from the melting chamber into said entrance passage, a cylinder having a piston movable therein, a valve means comprising a stator member having three ports; the first being communicative with the exit passage from the mold cavity, the second being communicative with the cylinder and the third being a discharge orifice, and a movable valve member carried by the stator member; said movable valve member having a duct which at a first position of the movable valve member, connects the first and second ports of the valve stator, and at a second position of the movable valve member, connects the second and third ports of the valve stator, means to oscillate the movable valve member from one of said positions to the other, a means to reciprocate the piston within the cylinder, whereby said piston is at the second port every time the movable valve member is at the said first position, and away from said second port every time the movable valve member is at said second position and operator-controlled means to halt the movable valve member at said first position.

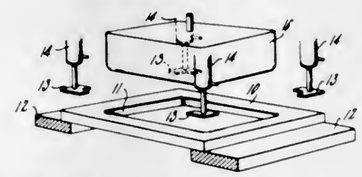
2,666,950
CURING PRESS MECHANISM
Anthony P. Grover, Willoughby, and Wallace M. Milden, Cleveland, Ohio, assignors, by mesne assignments, to The Eagle-Picher Company, Cincinnati, Ohio, a corporation of Ohio
Application September 23, 1950, Serial No. 186,388
8 Claims. (Cl. 18—17)

1. In combination with a curing press having an inclined curing chamber, a door for the lower inclined side of such chamber hingedly mounted at its lower edge for downward opening movement, and a stack of superimposed mold leaves adapted to be supported on the upper surface of such door when the latter has been swung open into generally horizontal position and individually pivotally connected to such door adjacent such hinge for swinging movement about axes parallel to the axis of such hinge, whereby each such mold leaf may be swung up to expose the leaf thereunder, such stack of mold leaves being carried into such chamber by such door when the latter is swung upwardly into closed position; leaf lifting means comprising a plurality of parallel overhead monorails equal in number to the number of mold leaves, said monorails extending generally at right angles to the pivotal connections of such mold leaves, carriages adapted to travel along each said monorail, individual fluid pressure piston-cylinder assemblies operative to reciprocate said respective carriages along said monorails, a pulley mounted on each said carriage for rotation about a horizontal axis, a plurality of cables equal in number to the number of mold leaves secured to a fixed support



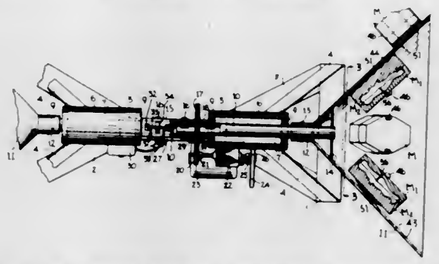
spaced outwardly from such mold leaves when such door is in open position and passing over said respective pulleys with their free ends dangling adjacent the respective outer edges of said leaves opposite to the edges thereof pivotally connected to said door, a lifting ring on each said leaf adjacent said free ends, a hook on each said free end of said cables adapted to engage a respective ring on such mold leaves, an electric control circuit adapted to control closing of said door, and switch means arranged to be engaged and operated by said cables only when said hooks are disengaged from said lifting rings and said cables therefore hanging freely, operation of said switch means by said cables being effective to set up said control circuit to permit closing of said door.

2,666,951
METHOD AND APPARATUS FOR DRAWING PLASTIC SHEETS
Leo C. Grove, Elmhurst, and Raymond L. Thompson, Park Ridge, Ill., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application August 30, 1951, Serial No. 244,394
12 Claims. (Cl. 18—19)



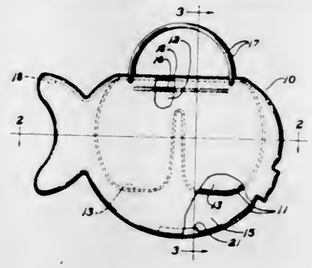
6. Apparatus for drawing a hollow polygonal article from a ductile sheet comprising, a draw ring having an inner polygonal perimeter, a mating polygonal male forming plug, clamps for clamping marginal portions of the ductile sheet only at points adjacent the corners of the polygonal draw ring to thereby immobilize portions of the ductile sheet adjacent said corners and means for effecting relative movement between said draw ring and said plug to form the polygonal article.

2,666,952
APPARATUS FOR DISTRIBUTING RUBBER IN MOLDS
George S. Lawson, Perry, and James C. Lawson, Euclid, Ohio, assignors, by mesne assignments, to The Barr Rubber Products Company, Sandusky, Ohio, a corporation of Ohio
Application September 28, 1949, Serial No. 118,208
2 Claims. (Cl. 18—26)



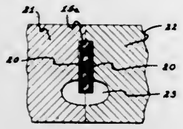
1. In an apparatus for effecting rotation of molds for producing hollow articles, the combination of a rotatable shaft, and a mold supporting member secured to said shaft axially thereof, said member having obverse and reverse surfaces inclined at an acute angle to the axis of rotation of said shaft and intersecting said shaft, said mold supporting member comprising a cone, the altitude of which is aligned with the longitudinal axis of said shaft.

2,666,953
METHOD OF MAKING PARTITIONED CONTAINERS
Mary M. Andrews, Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York
Application February 17, 1950, Serial No. 144,683
3 Claims. (Cl. 18—58.7)



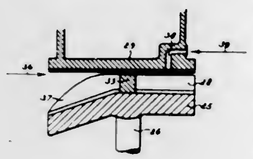
1. The method of making a multiple-compartment handbag which comprises forming a hollow body member having a unitary flexible rubber-like wall, forming a closed-bottom inner compartment encompassed by a closed-bottom outer compartment in said body member by invaginating a portion of said wall of said body member to a position in which the inturned portion of said wall inherently remains invaginated, forming an opening in said wall to provide access into the interior of said hollow body member, and providing means at the upper margins of said handbag for maintaining the mouth of said inner compartment of said handbag normally substantially closed.

2,666,954
METHOD OF MAKING TOOTHBRUSHES
Ralph B. Potter, Boulder, Colo.
Application November 29, 1952, Serial No. 323,290
3 Claims. (Cl. 18—59)



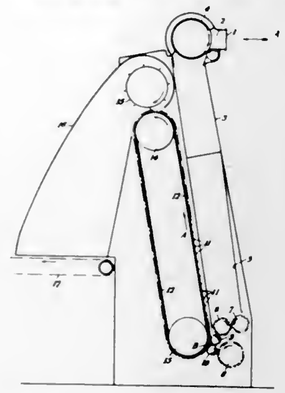
1. The method of attaching a sponge rubber abrasive carrying element to a handle to form a tooth cleaning device comprising the steps of: (*a*) soaking said sponge rubber element in a soluble adhesive; (*b*) compressing said sponge rubber element to a thin wafer shaped element; (*c*) drying said compressed element to retain said thin wafer shape; (*d*) securing said wafer shaped element in a die with a portion thereof projecting into the cavity to be filled in said die; (*e*) injecting plastic material in said cavity around said wafer shaped element to form a locking connection of hour glass shape between said wafer shaped element and said injected plastic material forming the handle of said device; and (*f*) finally dissolving said adhesive from said wafer shaped element projecting from said handle to expand said wafer to form the abrasive carrying medium for said tooth cleaning device.

2,666,955
DECORTICATING DEVICE
Hendrik Wagter, Broek in Waterland, Netherlands, assignor to Gebr. Stork & Co.'s Apparatenfabriek N. V., Amsterdam, Netherlands, a corporation of the Netherlands
Application August 11, 1949, Serial No. 109,709
Claims priority, application Netherlands May 25, 1949
3 Claims. (Cl. 19—8)



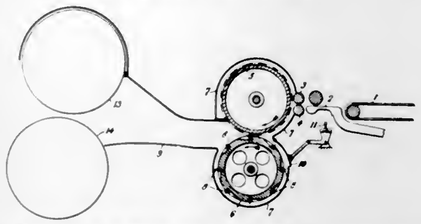
1. An apparatus for decorticating fibrous parts of plants comprising conveying means for holding and conveying said parts of plants, beating stations located at either side of the said conveying means, said beating stations each comprising a rotatable drum carrying beaters on its outer surface, stationary supporting means presenting a concave face adjacent said outer surface of each of said drums as a support for the parts of plants passing said beating station to be decorticated while said parts are conveyed by the said conveying means, said beaters being arranged in axially spaced annular sets on the drum, means for supplying water in the space between the said concave support face and the drum opposite the annular set of beaters which is the last one on the drum in the conveying direction, and the annular sets of beaters being separated by collars on the drum fitting close to the concave supporting face.

2,666,956
APPARATUS FOR USE IN CONVEYING AND OPENING TEXTILE FIBROUS MATERIALS
William Aldred Hunter and Frank Singleton, Helmshore, Rossendale, England, assignors to T. M. M. (Research) Limited, Helmshore, Rossendale, England
Application October 28, 1950, Serial No. 192,654
3 Claims. (Cl. 19—78)



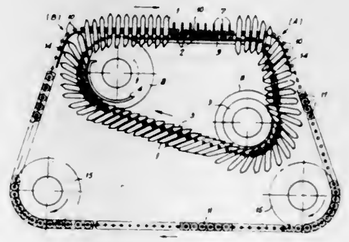
3. In a hopper feeder apparatus for textile fibrous material which has at its inlet a cage condenser and a gravity feed trunk leading downward therefrom, in combination, a pair of cooperating feed elements situated at the exit from the trunk for conveying the fibres from the trunk in a controlled manner and forming them into a compressed sheet of substantially uniform cross section, means for feeding the so formed sheet including a second pair of cooperating feed elements, and a spiked lattice travelling in such close proximity to the second pair of feed elements that the spikes of the lattice are caused to execute a positive combing action on the fibres of the sheet while the compressed sheet is still held under the restraining influence of the second feed elements.

2,666,957
MACHINE FOR THE INTENSIVE OPENING OF FIBROUS MATERIALS
William Aldred Hunter, Helmshore, Rossendale, England, assignor to T. M. M. (Research) Limited, Helmshore, Rossendale, England
Application April 4, 1951, Serial No. 219,196
3 Claims. (Cl. 19—88)



1. A textile opener comprising, in combination, a rotary, toothed taken-in beater, a stripping beater rotating at a higher peripheral speed than, and in the opposite direction to the taker-in beater, the stripping beater carrying on its periphery a series of flexible flaps which extend radially therefrom substantially, but not quite, into contact with the teeth of the taker-in beater, and operate solely through a fanning effect to remove all the fibers in a forward direction from forward edges of the teeth of the taker-in beater, and a casing surrounding the beaters and defining a trunk for conducting the fibers directly away from the beaters in a direction substantially at right angles to the line of centers of the beaters, and having an air guide portion surrounding the stripping beater in proximity thereto which guide portion extends well into the space between the beaters at the side opposite said trunk, for directing substantially all the air delivered by the stripping beater through a confined space between the beaters substantially at right angles to said line of centers and in the direction in which the fibers are carried forward by the taker-in beater.

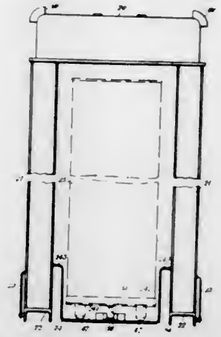
2,666,958
TEXTILE MACHINE
Euterio L. Dotti, Santa Fe, Argentina
Application July 14, 1950, Serial No. 173,893
8 Claims. (Cl. 19—127)



1. In a textile machine, the combination, comprising, a movable endless chain means, means mounting and moving the chain means in a plane, a plurality of teeth carrying bars in spaced relation pivotally carried by the chain means and laterally thereof, an equal plurality of guide members each rigid with a bar, a pair of movable endless chains, a plurality of rods carried in spaced relation by the pair of chains at one side thereof and aligned with the bars and guide members, means mounting and moving the pair of chains in a plane other than the plane of movement of the first chain means, and cam means engageable with the guide members and moving same and the teeth of the bars rigid therewith into a space between a pair of adjacent rods and other cam means removing the guide member and teeth from the spaces.

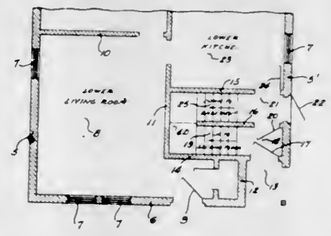
2,666,959
SLIVER COILING APPARATUS
William Harold Watson and Joseph Osbaldeston, Helmshore, England, assignors to T. M. M. (Research) Limited, Helmshore, England
Application June 26, 1951, Serial No. 233,548
8 Claims. (Cl. 19—159)

1. A sliver coiling apparatus comprising, in combination, a battery of coiler heads in grouped relation, each including a pair of calender rollers and a sliver guide, means common to the several coiler heads for rotating the sliver guides and for driving the calender rollers of the coiler heads in unison, a support for a can, said can receiving the collective output of all the coiler heads in independent coils, and parallel motion driving mechanism operated by the aforesaid driving means, imparting identical translatory circular movement to every point of the can support, thereby producing the desired independently coiled formation of each sliver delivered into the



can, so that each coil can be subsequently separately withdrawn.

2,666,960
DUPLEX FLAT CONSTRUCTION
Francis J. Hinton, Wauwatosa, Wis.
Application December 21, 1950, Serial No. 202,044
6 Claims. (Cl. 20—1.1)

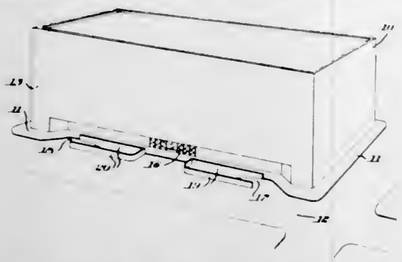


1. In a duplex flat building having a common rear entrance and separate front entrances for both the upper and lower flats, a lower hall into which the rear entrance and the front entrance for the upper flat both directly open, a stairway to the second floor flat accessible from a portion of said lower hall, a stairway descending directly from a portion of the lower hall to the building basement and disposed below a portion of the first-mentioned stairway, an upper hall to which the first-mentioned stairway extends, a stair well enclosing all of said stairways and contiguous with said halls, partitions on the second floor enclosing the stair well leading to the second floor, partitions on the first floor enclosing the stair well leading to the basement and to the second floor, said second floor partitions and said first floor partitions being vertically aligned, and doors controlling access from said upper hall to both the front and kitchen quarters of the upper flat.

2,666,961
PARKING SYSTEM
Victor A. Rigaumont, Pittsburgh, Pa.
Application December 7, 1949, Serial No. 131,678
5 Claims. (Cl. 20—1.13)

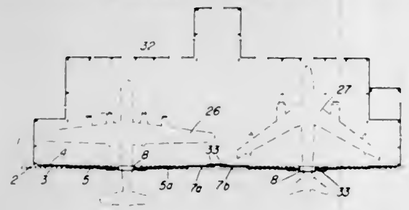
1. In the combination of a structure with a garage therein, a street along one side of the structure, and a sidewalk extending between the street and structure at substantially street level, means for connecting the garage to the street for passage of vehicles therebetween without interference with pedestrian traffic along the side-

walk, said means comprising a ramp having an end portion opening into the garage at a level spaced vertically below the sidewalk and cross-



ing the sidewalk without intersecting it, a sloping intermediate portion extending to street level between the sidewalk and street, and an end portion opening into the street.

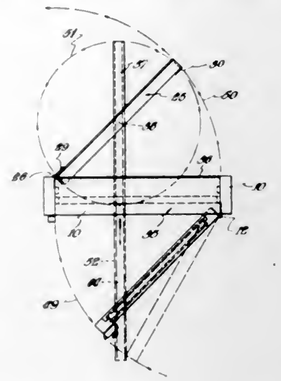
2,666,962
DOOR CLOSURE FOR WING HANGARS
Burrell H. Tripp, Scarsdale, N. Y.
Application October 6, 1951, Serial No. 250,157
3 Claims. (Cl. 20—16)



1. Closure for wing hangars for aircraft having fuselages, said closure comprising a pair of doors, each of said doors having a section cut out to admit one-half of an aircraft fuselage, each door being arranged to meet the other at the center line of the fuselage, and means compressible in the plane of the doors for insertion between said doors and an aircraft fuselage in combination with a removable insert in each door, said cut-out section being located in that insert, whereby cut-out sections of various shapes can be put in said doors to suit different aircraft and a weathertight cushion seal is provided about the fuselage of the aircraft.

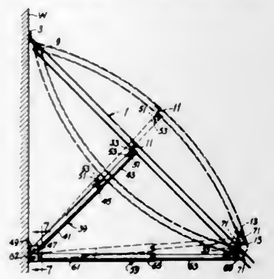
2,666,963
COMBINATION WINDOW AND STORM WINDOW CONSTRUCTION
John Kurtz, Chicago, Ill.
Application July 12, 1951, Serial No. 236,353
1 Claim. (Cl. 20—55)

In a window construction comprising a rectangular frame structure, an auxiliary frame, means mounting said auxiliary frame for hinged swinging movement with respect to said frame structure, top and bottom cross members disposed within said auxiliary frame, vertical hinge means formed on and positioned centrally of said top and bottom cross members, means journaling said vertical hinge means in said auxiliary frame, a window sash frame carried by said top and bottom cross members, said window sash frame and said top and bottom cross members having interlocking tracks permitting relative longitudinal sliding movement of the window sash frame within the top and bottom cross members, said auxiliary frame including spaced side angle members in reverse position to provide limit stops



for the top and bottom cross members and their included window sash frame pivoting on the vertical hinge means.

2,666,964
AWNING
Edward H. Pratt, Belleville, Ill., assignor to Ace Metal Products, Inc., New Baden, Ill., a corporation of Illinois
Application May 7, 1952, Serial No. 286,458
11 Claims. (Cl. 20—57.5)

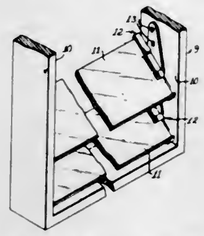


1. A variable-shape rigid awning comprising a stiff but resilient panel adapted for pivotal attachment at its upper end to a wall, variable-length rigid strut means pivotally connected at one end to the lower end of the panel and adapted for attachment at its other end to the wall, and variable-length rigid strut means pivotally connected at one end to the panel intermediate the upper and lower ends of the panel and adapted for attachment at its other end to the wall, said panel, when unstressed, being generally flat but adapted to be bent to convex or concave shape by adjusting the length of the strut means.

2,666,965
JALOUSIE WINDOW LOUVER
John M. Sprow, North Miami, Fla.
Application August 18, 1950, Serial No. 180,260
3 Claims. (Cl. 20—62)

1. In a louver clip, a bracket section and a holder section, said bracket section comprising a mounting plate adapted to be secured to a side of a lower opening and a lateral flange projecting at right angles from said mounting plate so as to extend into the lower opening, said lateral flange having a free end remote from the mounting

plate and having opposed side edges, said side edges being substantially parallel to each other, said holder section comprising a channel form comprising a web, upper and lower flanges projecting laterally from said web, said upper and lower flanges being spaced from each other to snugly receive a louver end therebetween, stop members on opposed ends of said upper and lower flanges for engagement with opposed side edges of a louver, said upper flange having up-



wardly projecting and facing hooks thereon, said hooks being spaced from each other and slidably engaging the top and the opposite side edges of the lateral flange of the bracket section with the upper side of the upper flange of the holder section slidably engaging the under side of the lateral flange of the bracket section, the holder section being removable from the bracket section by movement of the holder section laterally in a direction away from the mounting plate of the bracket section.

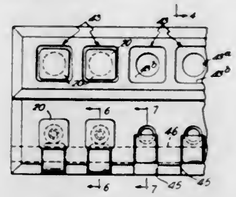
2,666,966
RUNG LOCK
Walter E. Lockett, Timmins, Ontario, Canada
Application November 23, 1948, Serial No. 61,533
1 Claim. (Cl. 20—92)



A tenon and mortise fastener comprising a pair of members disposed in superposed relation adapted to be driven between the tenon and mortise, the upper face of the lower member being cone-shaped in interfitting engagement with a correspondingly shaped concavity in the lower face of the upper member, the outer face of the upper member at one end being inclined downwardly towards the lower member and terminating in a reversely bent hook receiving one end of the lower member, the end of the upper member opposite the inclined end being formed with a flat, relatively broad surface to facilitate driving of the fastener and teeth projecting from the outer faces of said members.

2,666,967
LANCET READYING AND STORING DEVICE
Edward J. Poitras, Holliston, Mass.
Application December 1, 1950, Serial No. 198,601
4 Claims. (Cl. 21—105)

1. A lancet storing kit comprising a set of lancets characterized at one end by a knife edge cutting tip and at the other by an enlarged grip-forming handle, the tip and handle merging at an intermediate hub, and a multiple lancet storage rack including a support means, a first set of support cavities receiving the tips and formed at their mouths with a seat for the hubs of said lancets, whereby they may be readied for use in desired tip sealing and handle exposing manner, and a second set of support cavities proportioned snugly to enclose both the tips and handles and formed with an interior seat for the hubs of said lancets, whereby they may be stored



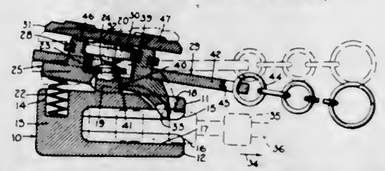
after use in desired inaccessible condition, and retractible detent means constructed and arranged on said support means normally to close said first set of cavities and thereby to prevent inadvertent disposal of used lancets therein.

2,666,968
FASTENING DEVICE
William A. Bedford, Jr., North Scituate, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application May 14, 1952, Serial No. 287,749
5 Claims. (Cl. 24—73)



1. A fastening device for snap fastener engagement in a support opening, comprising a base and a single attaching shank extending therefrom, said shank having a longitudinally split end forming a pair of legs, said legs being bent transversely back to lie flatwise alongside the shank and extend toward the base, said legs being in substantial abutting relation at the bends and being inclined away from each other toward the shank and having opposite edge portions projecting from opposite sides of the shank in inclined relation thereto.

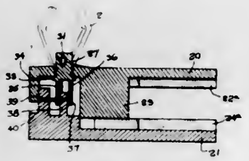
2,666,969
AUTOMATIC LOCK SLIDER
Louis H. Morin, Bronx, N. Y.
Application December 20, 1946, Serial No. 717,452
11 Claims. (Cl. 24—205.14)



1. A lock slider for separable fastener stringers, said slider comprising a channelled body having spaced walls joined at one end in a connecting web, one wall of the slider having centrally thereof an outwardly extending pivot pin, said wall in spaced relation to the pin having an aperture opening into the channel of the slider body, a lock element pivotally enclosing and covering said pin, said element having a finger extending through the aperture to enter the channel of the slider, tensional means engaging

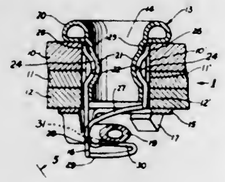
the lock element to normally support the finger in the channel, said lock element having an outwardly extending turret portion into which said pin extends, a pull rotatably mounted on the turret portion in operating the slider in two directions on stringers, and means retaining the pull against displacement from said turret portion.

2,666,970
REMOVABLE SLIDER FOR SLIDE FASTENERS
William I. Grant, Kew Gardens, N. Y.
Application August 29, 1952, Serial No. 307,031
6 Claims. (Cl. 24—205.15)



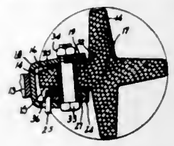
1. A removable actuating device for a series of slide fastener teeth comprising an upper jaw and a lower jaw adapted to grip said slide fastener teeth and to open and close the same, a pin member rotatably connected to said upper jaw, said pin member being formed with a shoulder portion abutting against the lower surface of said upper jaw member and being provided with a recess in the lower portion thereof and a spiral groove communicating with said recess and the outside portion of said pin member; an additional pin member secured to said lower jaw, an additional pin member secured to said first-named additional pin member, said first-named additional pin member being disposed within said recess and said second-named additional pin member being disposed within said spiral groove, an operating member secured to said first-named pin member so that said jaw members may be moved vertically with respect to each other and removed from said slide fastener teeth.

2,666,971
FASTENER DEVICE
Ho Chow, New York, N. Y.
Application July 5, 1952, Serial No. 297,291
6 Claims. (Cl. 24—221)



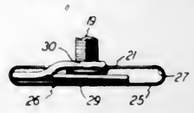
1. A fastener of the character described, comprising a sleeve, a head at one end of the sleeve, a pair of spring members keyed to said sleeve and projecting beyond the other end thereof, said springs having yielding cam portions beyond the limits of the sleeve and disposed in a substantially circular path, said sleeve being adapted to be passed through a pair of plate members to be secured together with the head of the sleeve engaging one outer plate member, and means engaging the other outer plate member and the cam portions of said springs for securely and tensionally supporting the plate members in assembled relationship.

2,666,972
MOUNTING CLAMP
Rudolph W. Strobel, Lenox, Mass., assignor to General Electric Company, a corporation of New York
Application November 20, 1951, Serial No. 257,369
9 Claims. (Cl. 24—243)



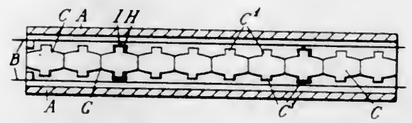
1. A three piece clamp comprising a channel-shaped member having a leg with an aperture transversely therethrough and a relatively short leg with an elongated slot therethrough, a plate member having an aperture transversely therethrough aligned with said aperture in said channel-shaped member and a tongue portion projecting transverse to a face of said plate member extending through said slot and in engagement with an edge thereof, a second plate member having an aperture therethrough aligned with the apertures in said channel and said first-mentioned plate member and having a tongue portion projecting transverse to a face of said plate extending through said slot and in engagement with the opposite edge thereof, and bolt means extending through said apertures.

2,666,973
CLAMPING ATTACHMENT FOR EARRINGS
Mabel V. Mosley, Los Angeles, Calif.
Application May 31, 1952, Serial No. 290,964
1 Claim. (Cl. 24—243)



A removable terminal member for a headed securing screw of an earring comprising a disk of an area greatly in excess of the cross-sectional area of the screw and the head thereof, said disk having an unobstructed front surface and having marginal portions extending rearwardly and inwardly and defining an annular channel extending entirely about the periphery of the disk and open along its inner side, and a clamping member carried by said disk and consisting of a strand of resilient wire bent intermediate its length and providing a screw-receiving eye having a side opening at a point about its circumference and disk engaging arms, said arms being arcuate longitudinally and fitting snugly within substantially diametrically opposite side portions of the channel, there being portions of the strand curved longitudinally and extending between and merging into the arms and the eye at opposite sides of the opening and defining an expansible throat for the opening, the last mentioned portions of the strand being curved away from the disk and supporting the eye in a plane offset from the plane of the rear surface of the disk and thereby allow the screw to be forced laterally through the throat and into the eye with the head of the screw confined between the eye and the rear surface of the disk.

2,666,974
METHOD OF PRODUCING UPRIGHT HOLLOW WALLS OF REINFORCED CONCRETE
Leon Gerald Leanse, Nassau, Bahamas
Application June 11, 1951, Serial No. 230,910
Claims priority, application Great Britain June 26, 1950
1 Claim. (Cl. 25—154)



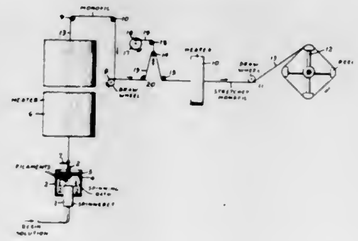
A method of producing upright hollow walls of reinforced concrete comprising the steps: erecting shutterings between which the hollow wall of reinforced concrete is to be produced; placing wire mesh reinforcements between and near the said shutterings but not in contact therewith; preliminarily inflating an inflatable mattress provided with means for forming vertical downwardly tapered recesses on the inner surfaces of the two parts of the wall of reinforced concrete and mounting the same between the said wire mesh reinforcements leaving free spaces between the latter and the mattress; pouring concrete into the spaces between the mattress and the shutterings, thereby incorporating the wire mesh reinforcements in the concrete; inflating to the required pressure the preliminarily inflated mattress, whereby the concrete is prestressed; deflating and removing the mattress after the concrete has set, and inserting tie members between the said two inner surfaces after the removal of the deflated mattress.

2,666,975
FURNACE LINING, METHOD OF LINING FURNACES, AND THE LIKE
Jack Farnsworth Govan, Los Angeles, Calif.
No Drawing. Application April 1, 1949, Serial No. 85,049
6 Claims. (Cl. 25—155.5)

1. In the art of applying a smooth and continuous refractory coating to a wall of a furnace, that improvement which includes the steps of: operating the furnace within the upper reaches of its normal temperature range, blowing into those regions within the furnace where the hot gases are at substantially their highest temperatures a finely-divided fusible refractory powder of melting range slightly below the highest temperatures reached within the furnace and thus forming finely-divided fused gas-borne particles, and employing the draft-induced swirling action of the furnace gases to carry the particles throughout the furnace and deposit them in an adherent coating on the walls thereof.

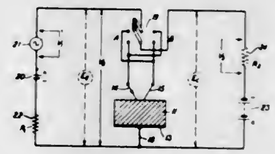
2,666,976
SYNTHETIC BRISTLE AND PROCESS FOR ITS PRODUCTION
Francois J. G. Olmer and Glenn A. Nesty, Morristown, N. J., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application June 10, 1950, Serial No. 167,373
14 Claims. (Cl. 28—82)

9. Bristles of a polymer of acrylonitrile containing at least 70% acrylonitrile and the remainder substantially consisting of an acrylic compound polymerizable therewith, said bristles having a diameter of 0.5 to 50 mils, with the body of the individual bristles having a homogeneous structure of said polymer and the corrugated surface configuration of a bundle of numerous contiguous filaments extending lengthwise from end to end of the bristle, and the bristle in cross-section having a scalloped outline, said homogeneous structure within the body of said bristles having been formed by spinning numerous separated filaments from a solution of said polymer in a volatile solvent therefor, partially removing solvent from the separated filaments, gathering the filaments into a bundle of contiguous filaments while they still contain a portion of the solvent of said



solution, drawing said bundle of contiguous filaments through a zone in which they are heated at elevated temperatures at which solvent contained in the bundle of filaments is evaporated into a gaseous atmosphere in said zone and the filaments bond together into a unitary monofil without application to said bundle of external pressure forcing the filaments together, said filaments being gathered at a point at which they contain sufficient solvent to cause the individual filaments to bond together by said evaporation of solvent during said heating into a unitary monofil which retains the aforesaid corrugated surface configuration of a bundle of contiguous filaments, and cutting the monofil into short lengths.

2,666,977
REVERSIBLE SEMICONDUCTOR AND METHOD OF MAKING IT
William G. Pfann, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 31, 1948, Serial No. 68,596
6 Claims. (Cl. 29—25.3)



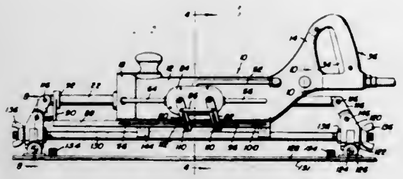
1. The method of making a reversible semiconductor amplifier having two spaced restricted area connections and a large area base connection on a semiconductive body, that comprises electrically forming one restricted area connection by passing a relatively high reverse current therethrough while both restricted area connections are in circuit with the base connection to condition said one connection as a collector connection and then likewise electrically forming the other restricted area connection as a collector connection.

2,666,978

PNEUMATIC POWER FILE

Claude T. Skillman, Santa Maria, Calif., assignor of fifty per cent to William K. March, Santa Maria, Calif.

Application December 27, 1949, Serial No. 135,195
7 Claims. (Cl. 29—76)



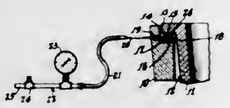
1. A fluid pressure actuated tool, comprising a cylinder, a piston rod slidably extending through and projecting from the opposite ends of said cylinder, means for imparting reciprocatory motion to said piston rod, a cutting element disposed laterally from said cylinder, means which include a pivotal connection carried at each end of the piston rod for engaging the cutting element, a guide rod disposed in parallel relation to said cylinder and connecting said last means and constituting the pivot for said pivotal connections, means carried by said cylinder and engaging said guide rod for guiding and supporting said cylinder relative to said cutting element.

2,666,979

METHOD FOR ATTACHING MEMBERS BY VACUUM PRESSURE

Laurence W. Van Dusen, San Diego, Calif., assignor to Van Dusen Engineering Company, San Diego, Calif., a copartnership

Application March 6, 1948, Serial No. 13,368
4 Claims. (Cl. 29—148.2)



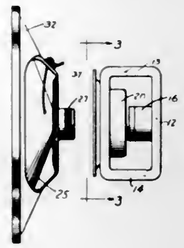
1. The method of securing together inner and outer nesting shells of a double wall container, comprising the steps of providing a counterbore within the wall at the mouth of the outer shell, said counterbore having a radial surface, forming an aperture in said wall communicating with the counterbore, providing a peripheral lip on the wall at the mouth of the inner shell so that the lip may be received within the counterbore, said lip having a radial surface, inserting a distortable rubber-like sealing ring in the counterbore between said radial surfaces on said wall and said lip, holding said radial surfaces in contact with said sealing ring to form an initial seal therebetween, projecting a hollow needle laterally through said aperture and through the sealing ring to puncture said sealing ring and establish communication with the space between said nesting shells, applying suction pressure to said hollow needle to evacuate said space, and withdrawing the needle laterally through the aperture to permit the longitudinal squeezing force on the sealing ring developed by atmospheric pressure acting upon the exterior of the shells to seal the needle puncture in the sealing ring and to prevent disassembly of the shells.

2,666,980

METHOD OF MAKING LOUD-SPEAKERS

Earl L. Russell, Cleveland, Ohio, assignor to The Rola Company, Inc., Cleveland, Ohio, a corporation of Ohio

Original application April 2, 1947, Serial No. 738,894, now Patent No. 2,524,836, dated October 10, 1950. Divided and this application November 17, 1949, Serial No. 127,961
1 Claim. (Cl. 29—155.5)



In a loud speaker having a permanent magnet shell type field structure with an air gap in one face, a pole piece and pole piece centering member, a cone assembly including a housing, and a diaphragm having a voice coil and form at one end with a retaining spider having a central opening for accommodating the voice coil and form, a plate having an air gap opening for coupling the shell and pole piece to the cone assembly, the plate having a width greater than the air gap face of the shell and having oversize holes through portions thereof extending beyond the air gap face of the shell adapted to loosely receive securing screws therethrough, the method of assembly comprising, positioning and securing the plate to the air gap face of the shell so that the air gap opening of the plate is centered with respect to the air gap of the shell, securing the housing to the plate by means of screws extending through the oversize holes in the plate and toward the housing, centering and securing the pole piece in the shell by means of the pole piece centering member, centering the spider with respect to the pole piece and securing the outer periphery of the spider to the housing, centering the voice coil and form of the diaphragm through the central opening of the spider in the air gap between the pole piece and shell, securing the adjacent end of the diaphragm to the spider and securing the outer end of the diaphragm to the adjacent portion of the housing.

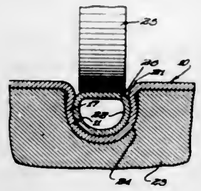
2,666,981

METHOD OF MAKING HEAT EXCHANGERS

Ray A. Sandberg, Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan

Application March 8, 1949, Serial No. 80,239
2 Claims. (Cl. 29—157.3)

1. The method of making a heat exchanger which comprises forming a re-entrant groove in a sheet metal plate, said groove having arcuate side and bottom walls and a mouth narrower than the greatest distance between said side walls, positioning a tube having a continuous circular cross section in said groove in good heat exchange relation against the bottom arcuate wall of said groove, said tube initially having a breadth substantially equal to the mouth of said groove, and while backing the side and bottom walls of said groove applying a force through the groove mouth against the therein exposed portion of said tube to press said exposed tube portion radially inwardly to deform the remaining portion of said tube into extended metal-to-metal surface engagement with the arcuate side walls and bottom of said groove and in good heat exchange relation therewith to lock said tube within said re-entrant groove.

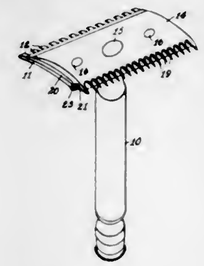


2,666,982

COMBINED HAIRCUTTER AND SAFETY RAZOR

Hans Schroder, Brooklyn, N. Y.

Application April 8, 1952, Serial No. 281,073
2 Claims. (Cl. 30—31)



2. In a hair cutter and safety razor, a blade support, a razor blade, and a cap provided with comb teeth, and means for clamping said cap and blade support on to the razor blade, a downwardly curved longitudinally arranged projection upon one side of the cap, and a recess in the blade support opposite said projection, the blade support being at one edge upon the outside downwardly curved and terminating at said edge in an upwardly extending sharp edge portion adapted to closely engage the razor blade, when said cap and blade support are screwed tightly together, whereby to force the razor blade into minutely close contact with the cap portion and the teeth upon the latter.

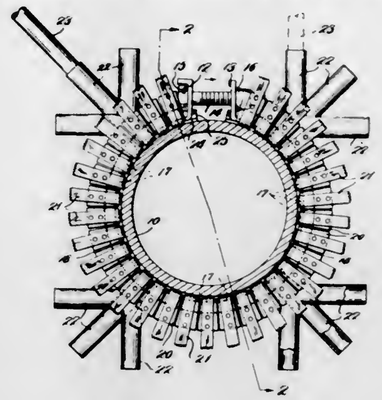
2,666,983

PIPE-CUTTING DEVICE

Charles Muckenfuss, Lakewood, Ohio

Application October 29, 1952, Serial No. 317,452
7 Claims. (Cl. 30—96)

1. A pipe cutting device of the character described comprising a split ring or band adapted to be positioned on a pipe, means for drawing the ends of the ring or band toward each other, a series of circularly spaced spring feed fingers extending from an edge of said ring or band in a direction longitudinally of and divergently outwardly from the axis of said ring or band, a series of circularly spaced saw blades carried by the outer free ends of said fingers and located in a plane extending transversely to the axis of said ring or band and provided on their inner ends with cutting teeth, and handles carried by said ring or band for rotating the same relative to the pipe to which it is applied.

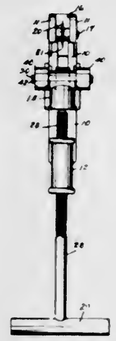


2,666,984

PIPE CUTTER WITH ROTARY CUTTER

Clarence W. Shafer, Warren, Ohio, assignor to Beaver Pipe Tools, Inc., Warren, Ohio, a corporation of Ohio

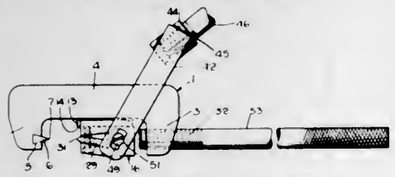
Application September 15, 1951, Serial No. 246,799
1 Claim. (Cl. 30—102)



A pipe cutting tool having an elongated frame, a jaw fixed to one end of the frame, a boss fixed to the other end of the frame and spaced from the fixed jaw, a movable jaw mounted on said frame for movement between the boss and the fixed jaw, a threaded rod extending through said boss and projecting toward the fixed jaw, a connection between the rod and said movable jaw whereby the movable jaw may be moved to and from the fixed jaw, a cutting wheel rotatably mounted in the fixed jaw with its axis extending normal to and intersecting the axis of the threaded rod and adapted to rotate consequent upon the swinging of the tool about a workpiece, said cutting wheel projecting from the fixed jaw toward the movable jaw, a pair of rods journalled in the movable jaw with their axes parallel with the axis of the cutting wheel, and spaced an equal distance therefrom, one of said rods being adjacent the frame and the other spaced outward therefrom, a pair of rollers mounted on the external ends of said last named rod at either side of said jaw, said rollers being spaced by a por-

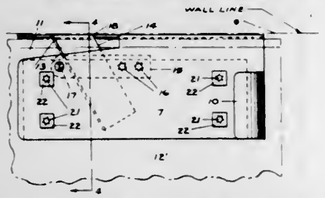
tion of said jaw having a diameter less than that of the rollers to provide a space between said rollers for the free passage of any burr resulting from the cutting action, a second pair of rollers mounted externally of the movable jaw on the other of said rods and being spaced from each other and from the first main pair of rollers, a fifth roller mounted on said last named rod intermediate the first main rollers to roll down any burr resulting from the cutting action.

2,666,985
WRECKING TOOL
Donald N. Sewell, Kennett Square, Pa.
Application April 14, 1952, Serial No. 282,177
4 Claims. (Cl. 30—182)



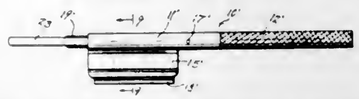
1. The combination with a claw having two opposing arms, a work gripping tool on one of said arms extending inwardly, a carrier slidably mounted between said arms on said claw, a cutting tool rockably and slidably mounted in said carrier, a positioning bar operatively mounted on the other of said arms for engaging and positioning said carrier to anchor the work between said gripping tool and said cutting tool, a lever, and rotatable means supported in said carrier and operatively connected to said cutting tool, said lever connected to said rotatable means to enable actuation of said lever in turn to advance and rock said cutting tool into cutting operation on the work.

2,666,986
CARPET CUTTING DEVICE
Nicholas Codianne, San Carlos, Calif., assignor to Roberts Manufacturing Co., Los Angeles, Calif., a corporation of California
Application November 13, 1950, Serial No. 195,333
5 Claims. (Cl. 30—293)



1. A carpet cutting device of the character described, comprising an elongated horizontal plate, a downwardly extending vertically bent portion on one side thereof, said plate being capable of abutting the wall and floor of a room and slidable thereon, said plate having an elongated through opening extending inward from an end edge of the plate and adjacent the downward bent portion thereof for confining therein the edge portion of the carpet to be cut, a cutting blade horizontally positioned at an angle across the elongated through opening, means removably securing the blade to the plate, a second plate, said second plate being positioned beneath the first mentioned plate and horizontally arranged in parallelism therewith and adapted to be pressed against the carpet on the floor, and means adjustably securing the second plate to the first plate, the second plate being adjustable in a vertical direction relative to said first plate.

2,666,987
SAFETY RAZOR BLADE HONING DEVICE
Ella Schramm, Brooklyn, N. Y.
Application November 25, 1952, Serial No. 322,511
3 Claims. (Cl. 30—293)



1. In a safety razor blade holder of the kind described, a tubular body having an elongated slot at one end and a handle portion at the other end, a pair of clamping plates pivotally mounted in the body for receiving and clamping a safety razor blade therebetween, said plates being swingable through said slot, extensions on the ends of said plates projecting through the open end of the slotted end of the body, spaced protuberances on the inner surfaces of one of said clamping plates, and an elongated movable plate interposed between the plates within the body, said elongated plate having spaced openings therein, the spacing between said openings corresponding to the spacing between said protuberances, whereby the movable plate may be shifted along the clamping plates and extensions and held in extended position beyond the outer ends of the extensions for positioning the clamping plates and supported blade in proper angular position for cutting material with the blade.

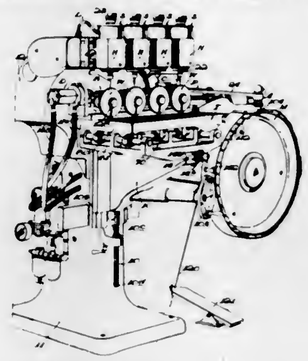
2,666,988
CONNECTED UPPER AND LOWER DENTURES
Roy W. Myers, Uhrichsville, Ohio
Application June 12, 1952, Serial No. 293,075
7 Claims. (Cl. 32—4)



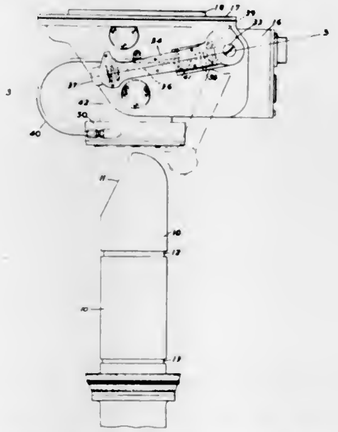
1. In combination with a pair of dental plates provided with teeth and having opposed sockets therein, a bowed spring having rounded heads at its ends for detachable engagement in said sockets, said rounded heads being in the form of eyes integrally formed upon the spring.

2,666,989
MULTIPLE SPINDLE ENGRAVING AND THE LIKE MACHINE TOOLS
Allen D. Gunderson, Racine, Wis., assignor to George Gorton Machine Co., Racine, Wis., a corporation of Wisconsin
Application October 3, 1949, Serial No. 119,281
27 Claims. (Cl. 33—25)

16. In combination; a work table and a cutter spindle mounted for relative movements therebetween; a tracer mounted for tracing movements over a pattern; mechanism connected with and actuated by said tracer for relatively moving said work table and cutter spindle in scaled reproduction of the movements of said tracer over a pattern; feed mechanism for feeding said cutter spindle between a working position and a non-working position relative to said work table; a pattern mounting master unit operable for indexing a pattern relative to said tracer; and interlock means connecting said master unit with said spindle feed and being adapted to be operated by indexing actuation of said master unit to render said feed mechanism inactive to feed said cutter spindle from a non-working position to a working position during indexing actuation of said master unit.

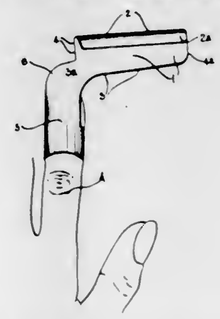


2,666,990
PERISCOPIC SEXTANT AND OTHER INSTRUMENTS
Philip Francis Everitt and George Robert Jamieson, Seven Kings, England, assignors, by mesne assignments, to Kelvin & Hughes Limited, a British company
Application October 4, 1949, Serial No. 119,494
Claims priority, application Great Britain October 5, 1948
8 Claims. (Cl. 33—46)



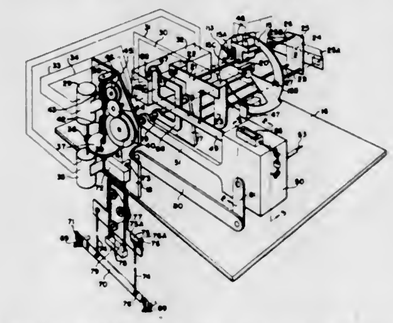
1. A hatch control device for use with a periscope sextant or other instrument of the kind having a hatch guideway which closely receives a tubular part of the instrument and a hatch cover on said guideway which is normally closed, comprising cover moving means for moving the hatch cover to open and closed positions, holding means for holding said cover moving means against movement to the cover opening position, and movable means for locking and unlocking the holding means, said movable means projecting into the hatch guideway, and being actuated by the tubular part to the holding means unlocking position whereupon the cover can be opened, and the instrument can then be pushed along the guideway to its operative position.

2,666,991
IMPROVEMENT IN OR RELATING TO RULES, MORE PARTICULARLY RULING LINES ON PAPER
Philip A. Ellison, Pinetown, Natal, Union of South Africa
Application August 2, 1952, Serial No. 302,378
4 Claims. (Cl. 33—107)



1. A ruling device for support solely by a single finger of one hand so as to leave other fingers free, comprising a plate portion of relatively narrow substantially oblong outline presenting one of two long edges as a ruling edge and having an extension obliquely directed outwardly from and beyond the region of one corner of the other long edge, which extension is provided lengthwise and remotely from the corner with a sleeve formation suitable for fitting moderately tightly over the said finger.

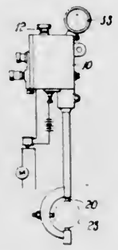
2,666,992
ELEVATION METER
Raymond T. Cloud, Houston, Tex., assignor to North American Geophysical Co., Houston, Tex., a corporation of Texas
Application June 7, 1948, Serial No. 31,449
2 Claims. (Cl. 33—141.5)



1. In an elevation meter for vehicles, a frame adapted to be resiliently mounted on a vehicle, a follow-up support mounted on said frame for rotation about an axis, a pendulum providing a horizontal reference direction and mounted on the follow-up support and having the axis about which it pivots co-axial with the rotative axis of the follow-up support, means for rotating the follow-up support about its axis to maintain it

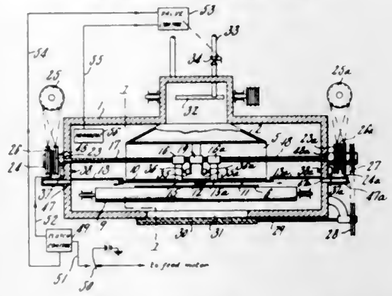
in predetermined rotative relationship to the pendulum, parts separate from the frame and mountable upon the unsprung chassis of a vehicle for providing a reference line in the path of travel of the vehicle and at a constant position above a roadway, sine measuring means supported by the frame and including a slide arm adapted to move longitudinally along its length in proportion to the sine of the angle between the reference direction and the reference line so that the sine of the angle times the differential of the distance travelled by the vehicle can be continuously integrated to yield the difference in elevation between two points along the path of travel of the vehicle, means connecting said slide arm and said parts including elements maintaining a predetermined angular relationship between the reference line and the slide arm and eliminating transmission of translatory movement therebetween, and means connecting said slide arm to said follow-up support in such a manner that rotation of said follow-up support about its axis relative to said reference line moves said slide arm along its length a distance equal to the sine of the angle through which said follow-up support rotates whereby the angle fed into said sine measuring means is that between said horizontal direction and said reference line irrespective of movement of the frame about the rotative axis of the follow-up support.

2,666,993
PRECISION GAUGE
Shubel A. Foster, Birmingham, Mich., assignor to The Foster Engineering Corporation, Royal Oak, Mich., a corporation of Michigan
Application May 21, 1952, Serial No. 289,155
5 Claims. (Cl. 33—147)



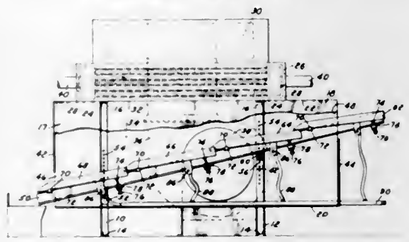
2. In a device of the class described, in combination, a body frame structure, a size-responsive work-gauging plunger reciprocable therein, a work dimension-responsive gap element pivotally supported by said frame and operable by said plunger, a manually adjustable gap element pivotally supported on said frame in spaced relation to said first gap element, a tell-tale gauge block supported on said frame and movable in a fixed path between said elements whenever said work-gauging plunger moves said dimension-responsive gap element to increase the gap between said elements to a predetermined extent, said work dimension-responsive gap element having a defined pressure point adjacent said gauge block, the pivotal axis of said work dimension-responsive gap element being substantially in alignment with said pressure point in a line normal to the path of movement of said gauge block when the major transverse dimension of said gauge block is above said line, whereby transverse force components exerted by said gauge block as a result of excessive shock or vibration will be resisted by the pivotal axis of said work dimension-responsive gap element.

2,666,994
TREATMENT APPARATUS FOR CLOTH AND LIKE SHEET MATERIAL AND EQUIPPED WITH MEANS FOR SHUTTING OFF THE TREATMENT FLUID
Julien Dungler, Basel, Switzerland
Application June 7, 1950, Serial No. 166,732
Claims priority, application France April 25, 1950
10 Claims. (Cl. 34—45)



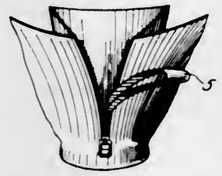
1. In a drying apparatus equipped with a treatment chamber for lengthy sheet, web and like material; a plurality of nozzle means provided with discharge orifices for treatment fluid directed against said material, exhaust channel means disposed between each two adjacent nozzle means, guide means arranged to space said material a predetermined distance from and move same past said nozzle means and said exhaust means, shutter means disposed for movement above said material and adjacent said nozzle means, means located adjacent said exhaust channel means for operating said shutter means to closing position between said material and said nozzle means and to retracted position away from said material, and means for opening and closing said chamber at a location below said material.

2,666,995
DRYING APPARATUS
Arthur H. Kirkpatrick, Detroit, Mich., assignor to Frederic B. Stevens Incorporated, Detroit, Mich., a corporation of Michigan
Application August 17, 1950, Serial No. 180,065
9 Claims. (Cl. 34—164)



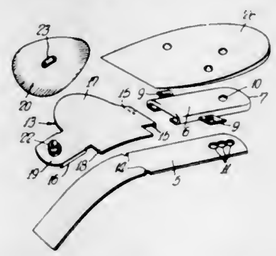
1. A dryer for work pieces comprising a casing, means for conducting a stream of heated air through said casing, inclined supports at each side of said casing extending longitudinally of the casing, and a plurality of trays mounted in echelon arrangement on said supports, said trays having a charging end and a discharging end, said trays being arranged on said supports with the discharging end of one tray overlying the charging end of the next adjacent tray, means for vibrating said trays such that work pieces deposited on the uppermost tray gradually travel to the lowermost tray, said trays being inclined downwardly in the direction of their discharge ends, the trays adjacent the upper end of said supports being inclined to a lesser extent than the trays adjacent the lower ends of said supports, said last mentioned trays being positioned in said stream of heated air and said trays adjacent the upper end of said supports being disposed out of the direct path of travel of said heated stream of air.

2,666,996
OVERSHOE WITH GUSSET AND TONGUE
Alfred O. Odland, Waupun, Wis., assignor to Invention Development Corporation, a corporation of Illinois
Application July 18, 1951, Serial No. 237,438
1 Claim. (Cl. 36—50)



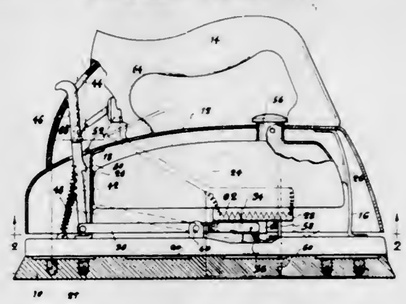
An overshoe having a vertical slit in its rear wall, said slit extending from the top of said overshoe to a point adjacent the bottom of said rear wall, slide fastener means adapted to fasten together the edges of said slit, a flexible gusset having its edges firmly attached to those of said slit so as to encompass the full area and equal in height to the height of said rear wall thereby being adapted to encompass the full area of the opening created when said slit is in the open position, and flexible tongue means separate from said gusset, said tongue means being adapted to be grasped by the wearer to facilitate pulling the overshoe onto the wearer's foot and consisting of a free flexible bent strap disposed as a loop with both of its ends attached to said overshoe at the lower extremity of said slit on the inner side of said rear wall but on the outer side of said gusset, said loop terminating at the top thereof at substantially the top edge of the overshoe and being adapted to lie flat against the rear inside portion of said overshoe with the top thereof at substantially the level of the top of the overshoe when said slit is in the closed position and to allow said gusset to lie flat against the inner portion of said strap.

2,666,997
ARCH SUPPORT
Joseph M. Affronte, Great Neck, N. Y.
Application May 24, 1951, Serial No. 228,066
2 Claims. (Cl. 36—76)



1. In a device of the character indicated, a relatively stiff shank stiffener, adjustable means for holding said shank stiffener in various positions of longitudinal adjustment, an arch support plate movably secured to said shank stiffener and movable bodily therewith in longitudinal direction, and means for adjusting the arch support plate up and down on the stiff shank stiffener in all positions of longitudinal adjustment of the latter, said arch support plate being hingedly connected to said stiff shank stiffener, and interengaging means on said plate and stiff shank stiffener to prevent accidental lateral disengagement of said plate from said stiff arch support.

2,666,998
STEAM IRON WITH MOVABLE HEATING ELEMENT
Kenneth B. Dafforn and Russell I. Huffman, Dover, Ohio, assignors to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware
Original application September 26, 1946, Serial No. 699,494, now Patent No. 2,512,054, dated June 20, 1950. Divided and this application March 21, 1950, Serial No. 150,862
4 Claims. (Cl. 38—77)

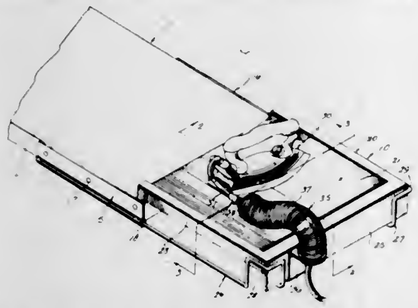


1. A steam iron structure comprising a sole plate having discharge ports, a casing mounted thereon, means forming a boiler disposed within said casing, a heating element for said boiler positioned between the boiler and said sole plate, a steam connection from said boiler to said discharge ports for supplying steam therethrough, and means for moving said heating element into and out of engagement with said boiler, said means comprising a yoke, pivot means mounting said yoke on said sole plate, said heating element being pivotally carried by said yoke on one side of said pivot means, an arm mounted on said yoke and extending from the other side of said pivot means toward one end of said sole plate, a link pivoted to said arm and extending upwardly to project from said casing, a spring normally lowering said arm and thereby raising said yoke to resiliently engage said heating element with said boiler, and means cooperating with said link to lock said arm in raised position against the bias of said spring.

2,666,999
EXTENSIBLE IRON STAND
Cornelius K. Brandt, Reedley, Calif.
Application November 17, 1950, Serial No. 196,323
1 Claim. (Cl. 38—107)

The combination with an ironing board having a pair of guides secured on opposite sides of said ironing board contiguous to one end thereof, of an iron-supporting tray overlying said one end of said ironing board and slidably supported on said board for movement from its position overlying said one end of said ironing board to an

extended position with respect to said one end of said ironing board, and brace means slidably supported in said guides and operatively connected to said tray, each of said brace means embodying a rod having one end slidably supported within a longitudinally extending guide-



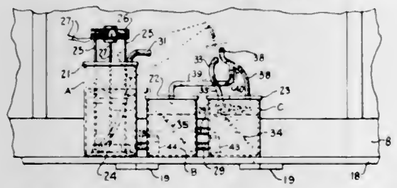
way provided in the respective one of said guides and having a bracket on the other end engageable about the corresponding corner of said supporting tray, the iron-supporting surface of said tray being spaced above said ironing board to provide a heat insulating space therebetween.

2,667,000
PORTABLE FOLDING AIRSTRIP MARKER
Hazel C. O'Connor, Jersey City, N. J., assignor to John L. Mitchell, New York, N. Y.
Application May 15, 1951, Serial No. 228,050
3 Claims. (Cl. 40—125)



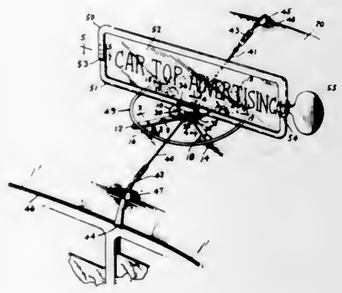
1. A marker device comprising a pyramid constructed of flat isosceles triangular plates hinged together in series, the base of each triangular plate being provided with a depending rectangular vertical section of equal strength, a spike extending from the lower edge of each rectangular section for anchoring in the ground, said triangular plates being hinged together along contiguous edges in such a manner that the marker device may be stored in open condition and folded into pyramid form when set up for use, and a luminous coating on said triangular plates to reflect light.

2,667,001
ADVERTISING DISPLAY DEVICE
Joseph J. Sheridan, San Mateo, Calif.
Application August 10, 1951, Serial No. 241,304
3 Claims. (Cl. 40—126)



3. In an advertising device the combination of an advertising surface, a liquid holding container in front of said surface, a receptacle in front of said surface and positioned below said container, a plurality of liquid holding tanks positioned in the rear of said surface, means interposed between the tanks to allow the liquid to circulate between the tanks, a motor driven pump in one of said tanks, an inlet tube connected to said container and to said pump to convey the pumped liquid to said container to transfer the liquid to said receptacle, means in said receptacle for trapping the liquid therein to form a bubble supply and to prevent an overflow of bubbles from said receptacle, an outlet tube connected to said receptacle for conveying a supply of liquid from said receptacle to one of said tanks, baffle means in certain of said tanks for agitating the liquid to create additional bubbles, and tubular elements connected to certain of said tanks and to said receptacle for conveying additional bubbles to said receptacle.

2,667,002
DISPLAY DEVICE FOR VEHICLE TOPS
Withrow T. Clore, Lincoln, Nebr., assignor to Travel-Ads Inc., Lincoln, Nebr., a corporation of Nebraska
Application February 29, 1952, Serial No. 274,170
3 Claims. (Cl. 40—129)

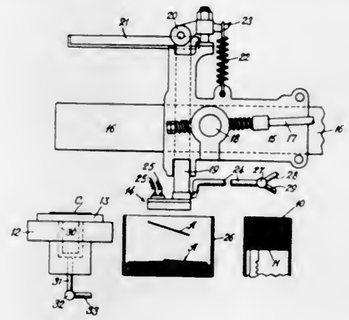


1. A display device for mounting upon vehicle tops comprising a base adapted to rest upon a vehicle top, means fastening said base to a vehicle top when resting upon the latter, an upstanding post rising from said base and connected to said base for rotary movement about a vertical axis, and a vertically disposed frame adapted to receive and support display matter positioned with respect to said post so that a major portion of the area included by the frame is on one side of said axis and connected to said post for rotation therewith, said post being freely rotatable in response to impulses induced upon the major portion of the area included by the frame by air currents when a vehicle whose top has the said base fastened thereto is standing in the atmosphere and by traveling movement through the atmosphere of such vehicle.

2,667,003
MACHINE FOR APPLYING TRANSFERS
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application April 28, 1951, Serial No. 223,576
4 Claims. (Cl. 41—1)

4. In a machine for applying decalcomanias to separate successive articles at an applying station, means spaced from said applying station for holding a stack of heat sensitive decalcomanias, vac-

uum means for picking up a decalcomania from said stack and carrying such decalcomania to said applying station, and means for applying the transfer of such decalcomania to an article at said applying station, said last mentioned means including said vacuum means and while the latter retains a vacuum control of such decalcomania during such application of the trans-



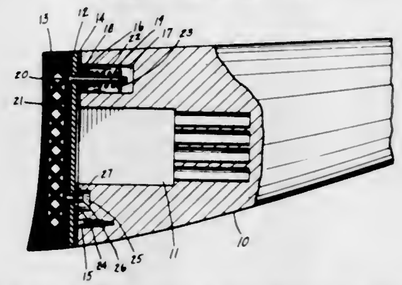
fer thereof to the article, means for applying heat to the decalcomania during such application of the transfer thereof, and means for applying positive pressure to the decalcomania during such application of the transfer thereof and for separating the backing sheet of the decalcomania from the transfer thereof adhered to the article while said heat sensitive decalcomania is still in a heated condition.

2,667,004
DETACHABLE HOSIERY ORNAMENT
Stanton D. Sanson, Elkins Park, Pa., assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa., a corporation of Delaware
Application January 22, 1951, Serial No. 207,157
1 Claim. (Cl. 41—34)



An article of manufacture comprising an ornamental element having upon its rear face an annular groove disposed with the mouth of the groove presenting radially inward toward the center thereof, and a spring wire retainer adapted to be detachably seated within said groove to clampingly secure said element to a flexible fabric overlying said annular groove, said groove being defined at its outer side by an inwardly turned, circumferentially endless edge and said retainer being split to provide a pair of relatively compressible terminal ends accessible from the outside of said groove, each terminal end of said retainer having a radially projecting blunt extension adapted to closely overlie said inwardly turned edge of the retainer-receiving groove.

2,667,005
SHOCK PAD FOR GUN BUTTS
Gilbert C. Weis, Renton, Wash.
Application September 30, 1950, Serial No. 187,781
1 Claim. (Cl. 42—74)



In a gun stock having a butt end and a storage cavity formed in said end; a mounting plate secured to said butt end and having an inwardly projecting semispherical and apertured socket formed adjacent one of its ends and a latch opening formed adjacent its other end, said butt end having an elongated recess in alignment with and for accommodation of said socket and having a second recess in alignment with said latch opening, a heel plate for closing said cavity, a pivot pin secured to said heel plate and extending through the aperture in said socket into said elongated recess, said pivot pin having a collar formed adjacent its inner end, a semispherical member surrounding said pivot pin and of a size complementary to said socket and normally seated therein, spring means enveloping said pivot pin and interposed between said collar and said socket for biasing said semispherical member into said socket, and a latch hook connected to said heel plate and extending through said latch opening into said second recess.

2,667,006
WEEDLESS ARTIFICIAL BAIT
Elmer Lehmann, Sr., Belleville, Ill.
Application October 27, 1950, Serial No. 192,456
4 Claims. (Cl. 43—35)



1. In an artificial bait, an elongate body including a substantially solid head portion, a tail portion of a rearwardly tapering cross section provided with a longitudinal slot, a hook including a long spring shank, a bight and a barb, the forward end of the shank being anchored in the body at the forward end of the slot but close to the longitudinal midplane of the slot, the hook being of a length and otherwise proportioned so that the barb and the greater part of the shank may occupy a position within the slot so as to be shrouded by the tail portion of the body, the hook being provided with a distinct shoulder on the outermost portion of the bight region, the said bight region being provided with a camming surface adjacent the shoulder, an elongate bow spring having a forward end anchored in a region of the body close to the forward end of the hook shank, a latch arm on the opposite or rear end of the bow spring, and means providing a guide for the latch arm in the tail region of the body, the camming surface of the bight region being

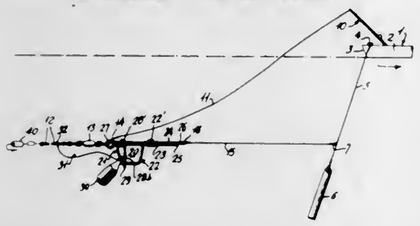
adapted to displace the latch arm against the bias of said bow spring upon movement of the hook into retracted position, whereby to cause self engagement of said latch arm and shoulder, the spring latch arm coacting with said shoulder of the hook to keep the hook releasably retained in retracted position, and the bow spring being arranged upon a minor pressure in a direction toward the bait body, to move the latch arm in a direction rearwardly of the body and away from the hook shoulder for release of the hook to an extended, active position, the spring shank of the hook acting thus to extend the hook bight and barb upon release of the latch arm.

2,667,007
ERRATIC FISHING LURE
William Ernest Heron, Detroit, Mich.
Application January 2, 1951, Serial No. 204,040
1 Claim. (Cl. 43—42.5)



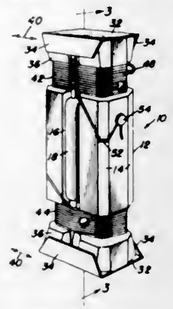
A fish lure of the class described comprising a body in the form of an elongated plate having opposite side and end edges, said body having a bend extending transversely thereof from one side edge to the opposite side edge at right angles to the longitudinal axis of the body inwardly of one end, and said body having a second bend extending transversely of the longitudinal axis of said body diagonally from one side edge to the opposite side edge thereof inwardly from the opposite end of the body.

2,667,008
TROLLING HARNESS
John W. Baum, Eugene, Oreg.
Application October 30, 1950, Serial No. 193,003
3 Claims. (Cl. 43—43.15)



3. A trolling harness for deep trolling with unweighted lures comprising, a fishing line, a lure and a leader therefor, a swivel connected to the leader, a bi-partite shock-absorbing trolling release connected to the swivel and to the fishing line, said shock-absorbing trolling release comprising a first wire member having a straight body section bent and coiled on itself at one end to form an eyelet and a lateral spring arm; a second wire member having an elongated body portion terminating at one end in an eyelet and offset at the other end to form a latch keeper, the said keeper having its free end coiled about the body portion to form a journal bearing, a second, coiled wire keeper slidably engaging the body section, said bearing and said second keeper receiving the body portion of the first said wire member in sliding locking engagement, and the said latch keeper receiving the lateral spring arm in spring bearing engagement, the two said members being mutually displaceable, against the spring bias of said spring arm, by opposed pulls on the two said members, and weighted drag line means connected to the eyelet of the second wire member of the release means and maintaining the trolling release and the attached lure at a desired trolling depth, said second wire member being automatically detached from the release upon application of a predetermined tension to the leader.

2,667,009
HOLDER FOR FISHING IMPLEMENTS
Harry A. Bear, Terre Haute, Ind.
Application August 15, 1950, Serial No. 179,561
1 Claim. (Cl. 43—54.5)



In a fishing implement holder, the combination of an elongated body having a substantially rectangular cross-section and affording substantially flat front and rear faces, said body being provided in the front face thereof with a longitudinal groove extending from one end of the body to the other, the end portions of the body at the front and rear faces thereof having inwardly convergent surfaces, and a pair of end caps each having an open-ended channel-shaped configuration and including a central plate portion and a pair of convergent flanges, said end caps being frictionally slidably positioned on the respective end portions of said body with the flanges thereof engaging said convergent surfaces, one flange of each end cap extending transversely of said groove.

2,667,010
RECEPTACLE FOR SNELLED FISHHOOKS
Orrin Elwood Anderson, Philadelphia, Pa.
Application November 18, 1949, Serial No. 128,113
2 Claims. (Cl. 43—57.5)

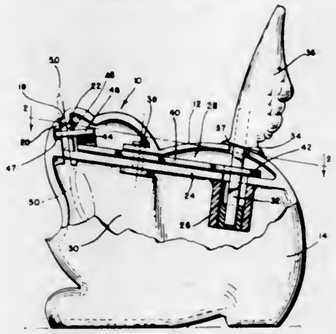
1. In a receptacle for fish hooks having barbed crooks and snells, a rod, an elongated cylindrical body of penetrable material axially circumposed on said rod adjacent one end of said rod, said cylindrical body having a first end spaced from said one end of the rod and being formed with circumferentially spaced longitudinal grooves, the barbed crooks of hooks being adapted to be impaled in said first end of the cylindrical body with the shanks of the hooks engaged in said grooves, said cylindrical body having a second end, a first disc circumposed on said rod and engaging said second end of said cylindrical body, said first disc being formed with peripheral notches registered with the grooves of said cylindrical body for receiving portions of snells of hooks, a second disc circumposed on said rod adjacent the other end thereof, said second disc being substantially smaller in diameter than said first disc, said second disc being formed with peripheral notches for receiving portions of snells

of hooks engaged in the notches of the first disc, an intermediate disc circumposed on said rod at a point between and spaced from said first and second discs, said intermediate disc being smaller in diameter than said first disc and larger in diameter than said second disc, an annular row of



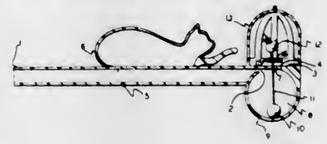
bristles on and projecting radially outwardly from the periphery of said intermediate disc for engaging and positioning portions of snells between the portions engaged in the notches of said first and second discs, and retaining means on said second disc for releasably holding snells in the notches of said second disc.

2,667,011
TOY BANK
Marvin I. Glass and John W. Ehemann, Chicago, Ill., assignors to Marvin I. Glass, Chicago, Ill.
Application May 17, 1951, Serial No. 226,886
1 Claim. (Cl. 46—3)



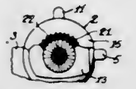
In a toy bank comprising a body shaped to simulate an animal, a partition interiorly of said body dividing the same into an upper and lower compartment, said body having a coin slot through said body aligned with a coin opening in the partition to receive coins into the interior of said lower compartment, said upper compartment having an opening adjacent the rear thereof, an elongated spring member secured at one end within said body and extending through said opening and comprising a tail simulating portion exteriorly of said body, an actuating member pivotally mounted on said partition within said upper compartment and extending longitudinally between said spring and said coin slot, with the rear end thereof contacting the side of the spring member and the front end engageable by a coin inserted into coin slot for pivotally moving the actuating member to laterally stress the spring to cause said tail to wag when the coin passes the actuating member and falls into the lower compartment.

2,667,012
BIRD CAGE WHISTLE
John H. Bacon, Wellesley, Mass.
Application June 23, 1951, Serial No. 233,222
7 Claims. (Cl. 46—44)



1. A toy whistle of the type described comprising means providing a mouthpiece terminating in a narrow passage, means providing a chamber connected to said mouth piece through said narrow passage with a mouth opening positioned adjacent the narrow passage and a lip aligned to receive the air blast blown out through the passage, a small ball like element loosely positioned in said chamber having a supporting wire extending therefrom, a small object to be animated mounted on the wire, and means for limiting the lateral motion of the wire at the mouth opening.

2,667,013
MINIATURE DOLL EYE-SET
Paul Tommarchi and Walter C. Byer, Douglaston, N. Y., assignors to Plastic Molded Arts, Inc., Long Island City, N. Y., a corporation of New York
Application November 16, 1950, Serial No. 196,002
3 Claims. (Cl. 46—169)

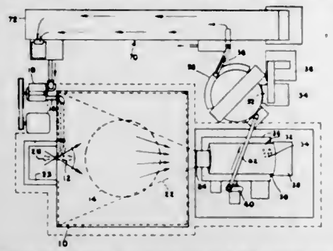


2. An eye set for a miniature doll comprising a pair of integral eye cup members integrally united by a bridge piece, each member being of hemispherical form and being made of transparent plastic, the back of each member being colored to represent the pupil and the iris of an eye, the front of each member having a white portion to simulate the white of the eye and a colored lid area above the iris, said pupil, iris, white portion and lid area being integrally formed with each said member, each said member having along the lower margin of the lid area and adjacent the upper edge of the iris a projecting, one piece, arcuate plastic flange to simulate an eye lash, said plastic flange being of solid strip form and tapered from the back to the front thereof, said flange being integrally molded with said member, and the color of said flange being in contrast to the color of said eye, thereby helping the flange to create the illusion of an eye lash.

2,667,014
WET BLASTING APPARATUS
Willie I. Gladfelter and Charles P. Croft, Hagerstown, Md.
Application June 29, 1951, Serial No. 234,392
12 Claims. (Cl. 51—8)

3. In a wet-blasting apparatus, a blasting machine having impelling structure connected to

projects against work articles a stream of blastant particles mixed with liquid to work the surfaces of the articles and remove debris therefrom, collecting means for collecting the projected blastant particles and liquid together with the debris from the work articles, separating means for separating large sized particles of the said debris from the mixture of blastant particles and liquid, a classifying apparatus connected to receive the mixture of blastant particles and



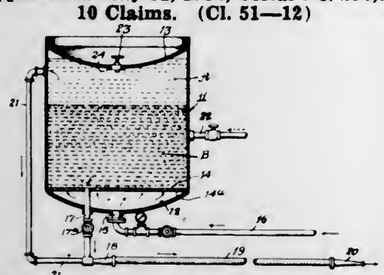
liquid from said separator and adapted to classify said mixture and separate a thick slurry containing the large sized particles of said blastant material from said mixture, a clarifying apparatus connected with said classifier to receive the remaining mixture therefrom and including structure for clarifying the liquid portion of the mixture, and recycling means connected to return the clarified liquid to the blasting machine for additional blasting.

2,667,015

SAND WASHING METHOD AND APPARATUS

Ralph R. Berg, Menlo Park, N. J., assignor to Mariblast Corporation, Jersey City, N. J., a corporation of New Jersey

Application May 31, 1952, Serial No. 290,906
10 Claims. (Cl. 51—12)



1. Apparatus for feeding a fluid abrading mixture to a discharge conduit, said apparatus comprising a tank having a rounded bottom portion, a perforated plate within said tank and disposed above said bottom portion, said plate adapted to hold an abrasive thereon, said tank being closed to atmospheric pressure, an inlet in said bottom portion for admitting a fluid under pressure, an outlet pipe extending from said plate through said bottom portion to a discharge conduit, an over-flow pipe disposed above said plate and joining said discharge conduit.

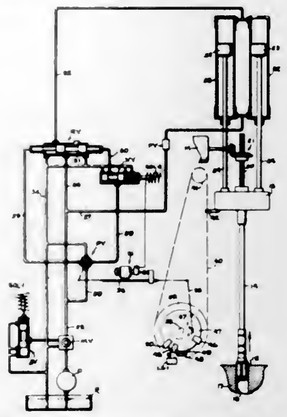
2,667,016

CONTROL MECHANISM FOR HONING MACHINES

Earnest Y. Seborg, Rockford, Ill., assignor to Barnes Drill Co., Rockford, Ill., a corporation of Illinois

Application January 6, 1950, Serial No. 137,170
5 Claims. (Cl. 51—34)

1. In a honing machine having a reciprocable support, in combination, power-actuated means operable to reciprocate said support through a working range and to shift the support beyond said working range to a retracted position, control mechanism operatively connected with said power-actuated means including a control member shiftable alternately between two positions as the support approaches opposite ends of its working range, abutment means mounted on and shiftable with said control member, a control



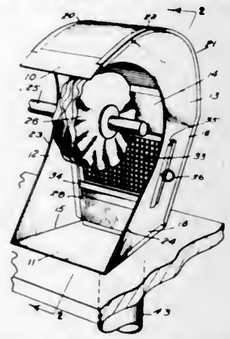
switch mounted for bodily movement toward and from said abutment means and normally retained in a position remote from said abutment means, means operable to shift said control switch toward said abutment means and into a position to be actuated thereby when the control member occupies one of its two positions, and a control device operable responsive to the actuation of said control switch for initiating movement of the support to retracted position.

2,667,017

DUST COLLECTOR HOOD CONSTRUCTION

Robert Jaron, Pawtucket, R. I.

Application January 30, 1953, Serial No. 334,117
3 Claims. (Cl. 51—273)



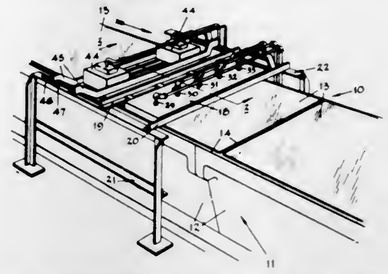
1. A dust collector hood having a base, sides, and a back plate, said sides having recessed front edges for receiving the shaft of a polishing wheel, a compartment at the lower rear end of the hood having a front transverse partition extending between the sides and upwardly from the base and to the back plate, said compartment having a suction opening in the lower portion thereof and said partition having an opening at a height for receiving polishing dust from the lower portion of the polishing wheel, and a screen extending across said partition opening.

2,667,018

GRINDING AND POLISHING GLASS SHEETS AND PLATES

Donald W. Dunipace, Perrysburg, and Ival G. Fowler, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application June 3, 1949, Serial No. 96,922
11 Claims. (Cl. 51—277)



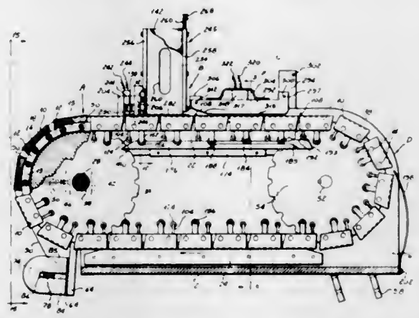
9. In apparatus for grinding and polishing glass, the combination with a table on which a glass blank to be ground and polished is laid; of a hollow casing having its interior divided into a series of compartments mounted above said table and having openings in the bottom wall thereof, means connected to said casing and communicating with said compartments for supplying steam thereto, and means associated with the steam supplying means for controlling the amount of steam supplied to each compartment, whereby said steam will be forced from said compartments through said openings and into contact with the top surface of a glass blank on said table to heat the same uniformly over the area contacted by said steam.

2,667,019

PACKAGING APPARATUS AND METHOD OF PACKAGING

William F. Feyrer, Englewood, N. J., assignor to Nathan L. Solomon, Englewood, N. J.

Application February 12, 1949, Serial No. 76,116
33 Claims. (Cl. 53—11)



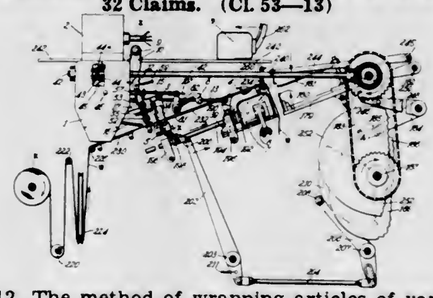
1. Apparatus for packaging a plurality of articles on a supporting card comprising an assembling platen, a channel in a first face of the platen for holding therein in generally flat position an adhesive tape with the adhesively coated side thereof facing outwardly of the platen, a series of spaced recesses in said first face of the platen crossing the tape holding channel to hold a plurality of articles to be packaged spaced in the desired relationship facing the adhesively coated side of the adhesive tape and in such relationship to the tape as to be spanned thereby, means on the platen to locate a supporting card overlying the articles and confronting the articles and tape with a broad surface of the card generally parallel to the adhesively coated side of the tape, and means to press the tape, articles, and card together in a direction normal to the latter so that the tape adheres to the tape confronting faces of the articles and to the card at locations on both sides of each article.

2,667,020

REGISTRATION DEVICE

William C. Broekhuysen, Garden City, and Ernest E. Pohl, Elmhurst, N. Y., and Frank J. Roehm, Newark, N. J., assignors to American Machine & Foundry Company, a corporation of New Jersey

Application December 3, 1948, Serial No. 63,342
32 Claims. (Cl. 53—13)

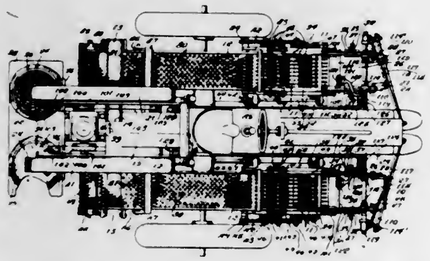


12. The method of wrapping articles of varying girth in a continuous web of wrapping material having spaced series of printed marks along the length thereof, the distance from the last mark of one of said series to the last mark of an adjoining series corresponding to the length of wrapping material required to completely enfold an article having a predetermined girth, which comprises pushing an article into the leading end of said web of wrapping material to enfold the article and to advance the immediately adjoining section of said web of wrapping material into position to enfold the next article to be wrapped; severing the section of the web enfolding the article from the remainder of the web; retracting the leading end of said web of wrapping material until the last mark of one of said series reaches a predetermined position, and thereby locating a predetermined section of the web relative to the series of marks in a predetermined relationship with respect to an article to be wrapped, and terminating the retraction of said web if one of the other marks of said series of marks reaches said predetermined position when said web is retracted so that said web may be relocated during subsequent wrapping of articles.

32. In a machine for wrapping articles of varying girth in a continuous web of wrapping material having indicia spaced along the length thereof at equal intervals corresponding to the length of wrapping material required to enfold an article having a predetermined girth, the combination with means normally operating to displace the leading end of said web of wrapping material by a predetermined extent with respect to an article to be wrapped prior to the enfoldment of the article therein; of a mechanism sensitive to said indicia and adapted to terminate the operation of said web displacing means when said indicia are brought in close proximity thereto, said mechanism being movably mounted for movement lengthwise of the web of wrapping material for the retraction thereof to regulate

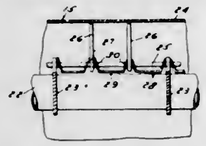
the position at which said indicia will be brought in close proximity of said mechanism, a device for determining the height of the article to be wrapped, and instrumentalities operated by said device and correspondingly moving said sensitive mechanism along said web to thereby regulate the displacement of said web by said web displacing means in a predetermined relationship to the height of the article to be wrapped.

2,667,021
PEANUT HARVESTER
Edwin E. Johnson, Samson, Ala.
Application May 28, 1949, Serial No. 96,031
7 Claims. (Cl. 55—51)



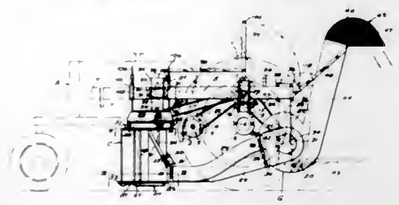
1. A peanut harvester comprising a plurality of toothed discs positioned in staggered relation, spaced horizontally disposed parallel shafts on which the toothed discs are mounted providing a soil and trash separator unit, a frame in which the shafts are journaled, a digger blade carried by the forward end of the separator unit, an inclined perforated plate extended upwardly from the rear end of the separator unit, an endless wire mesh chain traveling over the perforated plate for dragging products over the plate, an elevator mounted in the frame and positioned to receive peanuts from the wire mesh chain, and means operatively connected to the elevator for feeding peanuts from the elevator to containers.

2,667,022
STALK SHREDDER HAMMER AND SPACER
Clarence B. Richey, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application October 17, 1951, Serial No. 251,736
3 Claims. (Cl. 55—118)



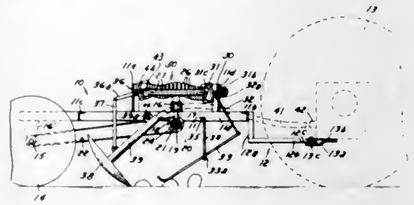
1. A hammer assembly for a stalk shredder having a rotatable axle, comprising a pair of axially spaced supporting elements rotatable with said axle, a shaft carried by said elements for rotation about the axis of said axle, a plurality of spaced hammers respectively having enlarged apertures through which said shaft freely extends, and hammer spacing ears having medial apertures, respectively, receiving said shaft therethrough, each of said hammers being snugly interposed between a pair of said ears, with the surfaces of said ears adjacent said hammers being inclined with respect to a radial plane of said axle to limit angular deflection of said hammers from a normal radial plane.

2,667,023
COTTON HARVESTER
Riley E. Ellis, Griffin, and Joseph A. Ashkouti, Atlanta, Ga.
Application February 10, 1950, Serial No. 143,564
6 Claims. (Cl. 56—12)



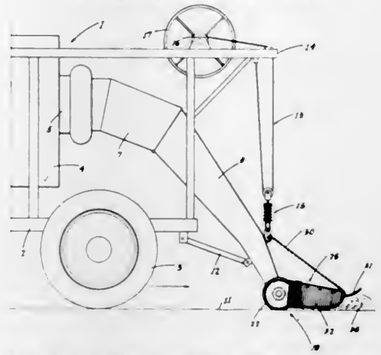
1. A cotton harvester unit, power means in connection with said unit, a head supporting means on said unit, a cotton gathering head yieldably suspended from said supporting means, oppositely arranged pairs of combined rotary impact and air induction devices mounted on said head, said pairs being relatively disposed to define a cotton plant passageway through said head, each pair including vertically disposed cylinders and radial vanes extending from said cylinders and coextensive with their length, the vanes of one of said cylinders of each pair coacting with those of its companion cylinder to provide a circuitous cotton path between said vanes, mechanism for imparting rotary movement to the cylinders, means for effecting power transfer from said power means to said mechanism, and means for delivering the cotton from said head to a receiver.

2,667,024
MECHANICAL MEMORY APPARATUS FOR BEET TOPPERS OR THE LIKE
Vernon O. Hauswirth, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application October 17, 1951, Serial No. 251,767
11 Claims. (Cl. 56—121.4)



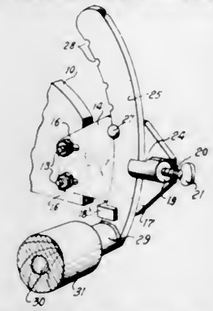
1. A mechanical memory device for transmitting displacements of a shiftable selector element to a shiftable working element after a delayed interval comprising a movable cam carrier, means for driving said cam carrier at a selected rate, a plurality of cam elements shiftably mounted on said cam carrier in consecutive array with respect to the direction of movement of said carrier, means operatively connected to said selector element for continuously positioning successive cam elements relative to said carrier in accordance with the instantaneous position of said selector element, thereby arranging said cam elements in a cam path, and means subsequently engageable by said cam elements successively and operatively connected to said working element for shifting said working element in accordance with said cam path.

2,667,025
SUCTION PICKUP HEAD UNIT FOR SEED HARVESTERS
Tom E. Conner, Elk Grove, Calif.
Application October 23, 1950, Serial No. 191,647
4 Claims. (Cl. 56—126)



1. A pick-up head unit for the suction spout of a seed harvester, in which spout the lower intake-end throat thereof is of rectangular form in section with its rear wall terminating in a horizontal transverse plane below that of the termination of the front wall so as to define a forwardly facing intake opening; the head unit comprising a suction hood which includes a top plate projecting forwardly with a downward slope from and connected to the spout at a level substantially that of the lower termination of the front wall thereof and side-skirts depending from the top plate; said top plate being provided at its forward end with a full-width upwardly sloping lip.

2,667,026
ROLLER BRACKET FOR LAWN MOWERS
James R. Ingram, Dallas, Tex.
Application October 16, 1952, Serial No. 315,030
1 Claim. (Cl. 56—249)



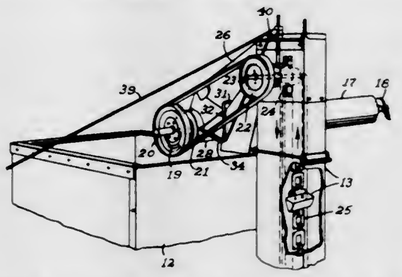
In a lawn mower attachment, a ground roller mounting comprising a pair of complementary hangers, said hangers each comprising a mounting plate having horizontal, vertically spaced bolt receiving slots for the attachment of said plate to the frame of a lawn mower, a slotted boss affixed to said mounting plate having a threaded bore and a counterbore, a headed pin secured to one face of said mounting plate adjacent its top, an arcuate hanger arm having its outer edge slidable in the slot of said boss and provided in its inner edge with relatively spaced recesses adapted to selectively engage said pin, a hook on the bottom of said plate in which the inner edge of said hanger arm is slidably engaged, a coil spring in the counterbore of said boss bearing against said outer edge and thrusting said arm in the direction of said pin, a ground engaging roller having a shaft, a bearing on one end of said arm in which is journaled an end of said roller shaft and means threaded in the bore of said boss and extending through said coil spring for securing said arm against movement in said boss.

2,667,027
REEL ADJUSTMENT FOR SIDE DELIVERY RAKES
Vernon O. Hauswirth, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application January 11, 1952, Serial No. 266,014
3 Claims. (Cl. 56—377)



1. In a side delivery rake having a frame and a cylindroid type raking reel having tooth bar mounting discs at each end, the improvements of a pair of crank axles respectively journaling said mounting discs in said frame, each of said crank axles having angularly displaced end portions respectively journaled to said discs and said frame, and means for concurrently angularly shifting said crank axles relative to said frame to thereby angularly shift the parallel axes of said end plates of said reel with respect to said frame.

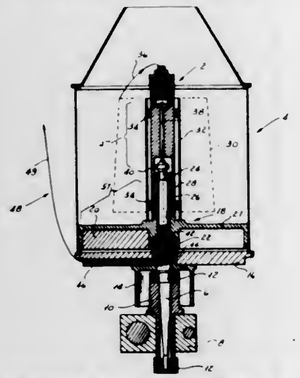
2,667,028
WAGON LOADING ATTACHMENT FOR COMBINES
Emrich A. Weishaar, Ashton, Ill.
Application April 13, 1950, Serial No. 155,696
4 Claims. (Cl. 56—473.5)



1. The combination with a combine, of a substantially vertical elevator on said combine for carrying threshed grain from said combine, a bin adjacent said elevator supported by said combine, a substantially horizontal conveyor conduit for conducting grain from said elevator, a power-operated auger in said conduit, an inverted generally L-shaped chute having one leg extending laterally and downwardly between the elevator and intake end of said conduit and auger and having the other leg directed downwardly into said bin, and a manually oscillatable baffle plate inside said chute pivoted at the junction of the arms of the L and swingable from

one extreme position closing the entrance into the downwardly directed leg of said chute to another extreme position disposed crosswise in the laterally and downwardly directed leg of said chute adjacent to and directing grain into the entrance in the downwardly directed leg of said chute.

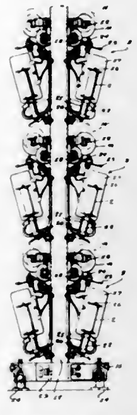
2,667,029
TENSIONING DEVICE FOR ELONGATED FLEXIBLE MATERIAL
Henry C. Uhlig, Clifton, N. J., assignor to Howe Twister Corporation, Jersey City, N. J., a corporation of New Jersey
Application November 16, 1951, Serial No. 256,751
11 Claims. (Cl. 57—58.86)



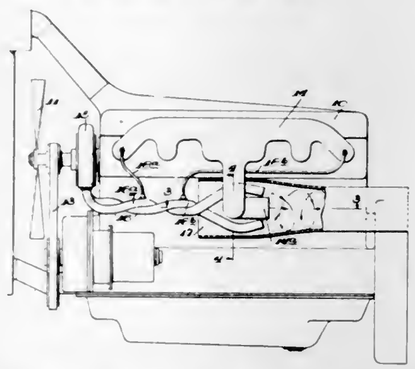
10. In a twisting spindle for elongated flexible material, said spindle having an elongated sleeve for holding a bobbin from which the material is withdrawn, said sleeve having an axial, material conducting, passage therethrough, said sleeve having a counterbore at its upper, material receiving, end, the improved material tensioning device which comprises a magnet having a bore therethrough secured in the counterbore coaxially thereof, the lower end of the magnet being provided with diametrically opposite poles, a tension member retaining means having a hollow material conducting stem and a lower cross-arm, the stem extending through the bore in the magnet and the cross-arm lying interiorly of the counterbore beneath the magnet, a pair of magnetically responsive tension members floatingly mounted on the cross-arm in parallel confronting relationship with the plane containing the axes of such members disposed transverse to the axis of the magnet, means restraining the rotation of the axes of the members relative to the cross-arm of the retaining means, a disc member overlying the upper end of the magnet and secured to the stem of the retaining means, the disc being rotatable with respect to the sleeve, and means releasably selectively to retain the disc and the members in two positions which are 90° apart about the axis of the sleeve, in one of said positions the axes of the members lying parallel to a straight line between the magnetic poles.

2,667,030
TWIST CONTROL MEANS FOR YARN WINDING MACHINES
Albert E. Winslow and John A. Bradshaw, Greenville, S. C., assignors to J. P. Stevens & Co., Inc., a corporation of Delaware
Application March 3, 1952, Serial No. 274,563
8 Claims. (Cl. 57—93)

4. In a winding machine for imparting twist to yarn by rewinding the yarn from a rotating spindle to a yarn receiving member driven by a take-up roll, means for driving said take-up roll in a selected relation to the rotation of said spindle and thereby obtaining a desired degree of twist in said yarn, said means comprising a stub shaft rotated with said spindle, a jack shaft connected for driving said take-up roll, an interposed gear train leading from said stub shaft and incorporating an intermediate removable gear component rotating in the same direction as said stub shaft, mounting means shiftable in relation to the axis of said jack shaft for carrying said removable gear component with accommodation for replacement thereof with alternative gear components of different size, said gear train further incorporating a final gear component fixed to said jack shaft and an associated idler gear component, and mounting means shiftable in fixed circular relation about the axis of said jack shaft for carrying said idler gear component in mesh with said final gear component and interposable in mesh with said removable gear component to maintain the drive for said jack shaft and said take-up roll in the same direction upon reversal of the direction of rotation of said spindle.

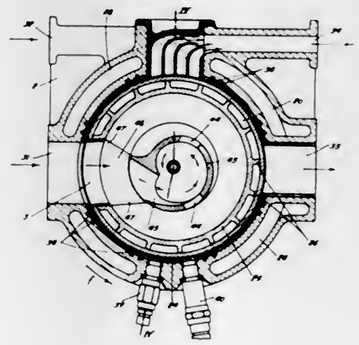


2,667,031
EXHAUST AUXILIARY FOR INTERNAL-COMBUSTION ENGINES
William Ryder, Knoxville, Tenn.
Application December 21, 1950, Serial No. 201,993
6 Claims. (Cl. 60—30)



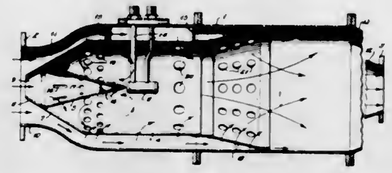
5. The combination with an internal combustion engine having an exhaust pipe and an exhaust manifold provided with a neck terminating rearwardly in an open-ended portion extending into the exhaust pipe, said exhaust pipe having an open forward end, of auxiliary exhaust mechanism comprising a blower driven by the engine and an air conduit extending generally parallel to and into the interior of said exhaust pipe and conveying air from the blower to a position inside the exhaust pipe and adjacent the open end of the neck of said manifold, whereby an entraining action is set up within the exhaust pipe to draw the burnt gases from the exhaust manifold.

2,667,032
REVOLVING COMBUSTION CHAMBER WITH LUBRICATION MEANS
Georges Boulet, Toulouse, France
Application January 17, 1950, Serial No. 138,998
Claims priority, application France
January 20, 1949
8 Claims. (Cl. 60—39.08)



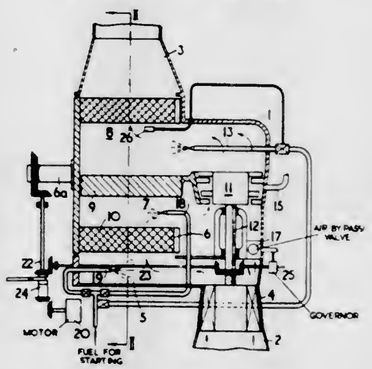
1. In a constant-volume combustion chamber arrangement for gas turbines, jets and other heat engines, including a closed hollow body the wall of which has its outer surface in the shape of a surface of revolution, an outer shell or casing at least partly enclosing said body and having an inner wall surface closely embracing at least a part of said surface of revolution, said body and shell being supported for relative rotary motion about the axis of said surface of revolution, means for imparting a continuous relative rotation to said body and shell, ports provided respectively through said body wall and in the shell and so located that they will be brought cyclically into register by said relative rotation between body and shell, and means for cyclically developing heat within said body in time relation with said relative rotation, said casing being stationary and the body rotatable and provided with at least one hole coaxial with the surface of revolution and extending through its bottom, said arrangement further including a device having an operative part located in register with said hole in order to be capable of operation within said chamber, a support for said device, packing means around said hole between the body and said support and in fluid-tight engagement with said body and support, and connecting means connecting said casing and support together to lock the latter against rotation.

2,667,033
COMBUSTION APPARATUS FOR OPERATION IN FAST-MOVING AIR STREAMS
Peter Frederick Ashwood, Old Coulsdon, England, assignor to Power Jets (Research and Development) Limited, London, England, a British company
Application December 23, 1947, Serial No. 793,375
Claims priority, application Great Britain
January 9, 1947
4 Claims. (Cl. 60—39.37)



1. Combustion apparatus comprising means for supplying a combustion supporting gas flow including a compressor, a duct directly connected to the output of said compressor for receiving the output of said supply means and conveying it in a common general direction, means for injecting fuel in an upstream direction within said duct, the flow of injected fuel being reversed by the gas flow, and structure defining within the duct at least one passage for by-passing gas past the region of fuel reversal, each such passage increasing in cross-sectional area in the downstream direction to provide for diffusion of all the gas by-passing said region.

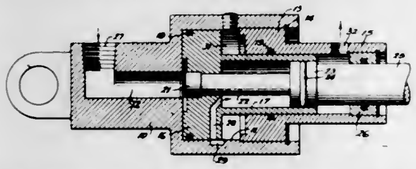
2,667,034
AIR TURBINE POWER PLANT HAVING ROTARY REGENERATOR TO TRANSFER HEAT FROM AN AFTERBURNER TO THE MOTIVE FLUID
John Forster Alcock, North Lancing, England, assignor to Power Jets (Research and Development) Limited, London, England, a British company
Application March 24, 1947, Serial No. 736,683
Claims priority, application Great Britain
April 1, 1946
3 Claims. (Cl. 60—59)



1. A system for producing power comprising a casing having an air inlet and an exhaust outlet and containing therein an air compressor arranged adjacent said inlet and receiving air therefrom and compressing it, a compressed air turbine for driving said compressor and for providing useful shaft power, a compressed air passageway arranged between said compressor

and said turbine for directing the compressed air output of said compressor to said turbine, a combustion chamber arranged between said turbine and said exhaust outlet for receiving expanded air from said turbine, a fuel supply system for supplying fuel to said casing, fuel burning means in said combustion chamber for burning fuel in said expanded air to provide hot combustion products, and a regenerative heat exchanger consisting of a gas permeable heat-storage and heat-emitting mass, a frame for holding said mass rotatably supported in said casing and arranged with a part in said combustion chamber and a part in said compressor passage, a sealing partition in association with said frame sealing said combustion chamber from said passageway, and a driving connection operatively connecting said turbine and said frame for rotating it to enable each part of said mass to be brought alternately into contact with said combustion products prior to said products passing to said exhaust outlet to heat said mass and cool said products and to heat said compressed air and cool said mass to provide hot compressed air for expansion in said turbine to drive it.

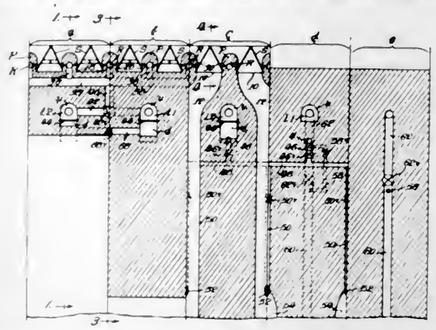
2,667,035
DIFFERENTIAL CYLINDER
George B. Marsden, Cicero, Ill., assignor to Chicago Nipple Manufacturing Company, Cicero, Ill., a corporation of Delaware
Application February 16, 1953, Serial No. 337,157
12 Claims. (Cl. 60—97)



1. A differential cylinder comprising a body formed with a first bore of relatively large diameter and a second bore of smaller diameter aligned with the first bore, a first piston slidable in the first bore, a second piston slidable in the second bore and having an extension projecting slidably through the first piston and adapted to be connected to a load, a connection to supply operating fluid to the second bore at the end thereof remote from the first bore to urge the second piston toward the first bore, the second piston moving out of the second bore to open the first bore to the connection whereby the first piston will be moved, and means operated by initial movement of the first piston to connect the pistons against relative movement whereby the first piston will act through the second piston and its extension on the load.

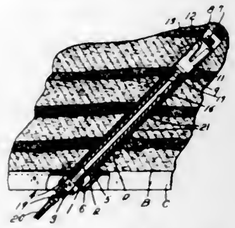
2,667,036
FISH LOCK FOR DOWNSTREAM MIGRATION OF FINGERLINGS
Calvin V. Davis, La Grange, and Le Roy F. Harza, Highland Park, Ill., and J. Frank Ward, Tacoma, Wash.
Application December 7, 1950, Serial No. 199,708
6 Claims. (Cl. 61—21)

1. A cross-stream power dam wherein is combined a lock system for down-bound fingerlings comprising on the upstream face of the dam a plurality of forwardly extending vertical piers defining between them turbine intakes at low elevations, and provided at points closely adjacent the upstream face of the dam with oppositely facing guideways for retention of vertically slidable gates, each pier being formed to enclose a receiving well extending for a major portion of its height, a plurality of inlet slots in each pier, arranged one above another, and communicating with said well, with all said slots extending laterally to points upon the pier sides relatively close to the upstream face of the dam, a screen unit fitted to slide within a pair of oppositely facing guideways to a down position in covering relation to one of the turbine intakes, the screen unit comprising a meshed sheet carried by a rigid framework in the form of a V-section having two sides engaging adjacent piers at points down-



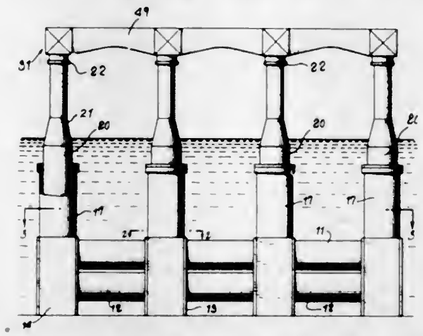
stream from the inlet slots and converging therefrom to a point relatively remote from the upstream face of the dam to deflect fingerlings advancing with the moving stream to the lateral faces of the adjacent piers for admission along with a portion of the moving stream into the inlet slots thereof and into the receiving wells in communication therewith, means for directing substantially all of the water admitted into the receiving wells into the turbines, a screen for preventing fingerlings from following the water so directed into the turbines, and a lock system in communication with the receiving wells having means for controlled lowering of the fingerling-laden water therefrom to tailwater.

2,667,037
SUSPENSION ROOF SUPPORT
Edward M. Thomas, College Park, and Anthony J. Barry, University Park, Md.
Application August 24, 1949, Serial No. 112,152
6 Claims. (Cl. 61—45)



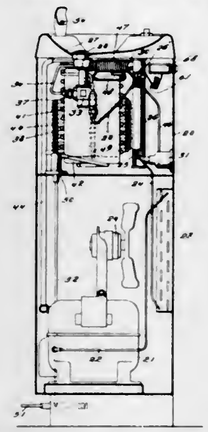
1. A supporting structure for the roof supports of a mine or the like, comprising a plurality of anchor bolts secured in position in holes formed in the roof strata, each bolt comprising an elongated hollow body, an enlarged expansible head at the upper end of the body outwardly offset therefrom, mechanical means for effecting expansion of the bolt head to secure the bolt in firm contact with the holding-walls, said bolt having means for conducting a quick-setting cement into the spaces around the bolt and expanded bolt head within the hole to effect firm securing of the bolt in supporting position in the roof strata.

2,667,038
SUBAQUEOUS SUPPORTING STRUCTURE FOR WORKING PLATFORMS
Charles A. D. Bayley, Washington, D. C.
Application July 17, 1952, Serial No. 299,349
10 Claims. (Cl. 61—46)



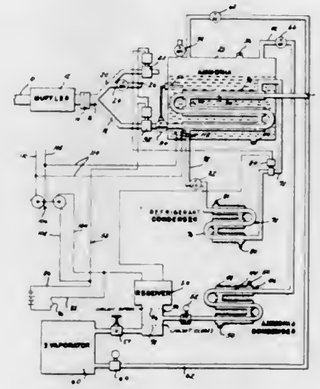
1. A sub-aqueous support for over water platforms which comprises a submergable pontoon structure having horizontally spaced recesses open at their upper ends, hollow lower cylinders one for each said recess open at its upper end, mounted and secured at its lower end in its respective recess, an inner cylinder closed at its lower end and telescoped downwardly into said lower cylinder to a predetermined level, capitals, one for each said inner cylinder, supported by said inner cylinder and portals interlocked in said capitals to form a floor support.

2,667,039
WATER COOLER THERMOSTATIC CONTROL
John G. Wehrwein, Glen Riddle, Pa., assignor to Sunroc Refrigeration Company, a corporation
Application August 22, 1950, Serial No. 180,852
2 Claims. (Cl. 62—4)



1. In a water cooler thermostatic control, a heat transfer unit having water passage provided with inlet and outlet connections to the heat transfer unit and having refrigerant passages provided with inlet and outlet connections to the heat transfer unit, a refrigeration system including a compressor and condenser connected to the refrigeration inlet and outlet connections and having a thermostat controlling the starting and stopping of the compressor, the refrigerant inlet, refrigerant outlet and water inlet to the heat transfer unit being brought together in heat transfer relation at one point, and a thermostatic well including the thermostat in heat transfer relation with the refrigerant inlet and outlet connections and the water inlet connection at the common point.

2,667,040
ABSORPTION REFRIGERATION SYSTEM FOR MOBILE APPLICATION
Chester Louis Keating, Jr., New Orleans, La.
Application December 21, 1951, Serial No. 262,698
5 Claims. (Cl. 62—5)

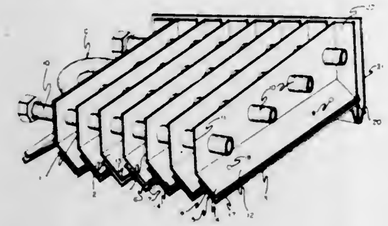


1. For use with a mobile device powered by an internal combustion engine, an absorption refrigeration system comprising a generator containing a liquified refrigerant absorbent mixture, a receiver, an evaporator, an outlet tubing connecting the generator to the receiver and the receiver to the evaporator, a return tubing connecting the evaporator to the generator, means conveying products of combustion from the engine through the generator, means connected to said last means for conveying the products of combustion directly to the atmosphere bypassing the generator, solenoid valves controlling both of said last means a source of electrical energy, and switch means in circuit with the source of electrical energy and the valves for simultaneously actuating the valves in reverse operation, said last means being mounted in the receiver and being responsive to the level of the refrigerant therein.

2,667,041
EVAPORATOR AND DRIP CATCHER ARRANGEMENT FOR REFRIGERATING APPARATUS
Ray M. Henderson, Bryan, Ohio
Application October 27, 1948, Serial No. 56,818
17 Claims. (Cl. 62—103)

1. In combination with an evaporator of a refrigerating system, of a drip catcher structure comprising a plurality of spaced apart plates extending across beneath the evaporator and connected to the evaporator so as to have a substantial direct heat exchange path therewith through material having good heat conducting characteristics, each of said plates being arranged to slope

downwardly and having at its lower marginal portion a turned up edge to provide a trough which will be connected in a continuous manner



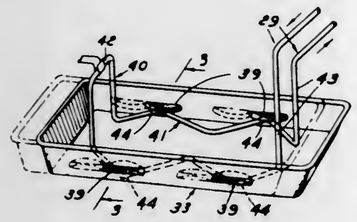
with a plate length, and said plates and troughs being in such vertical relation as to catch all drip from the evaporator.

2,667,042

REFRIGERATING SYSTEM, INCLUDING DEFROSTER DRAINAGE RECEPTACLE AND SUPPORT THEREFOR

Florence B. Anderson, Winnetka, Ill., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York

Application April 7, 1952, Serial No. 280,871
7 Claims. (Cl. 62—117.8)



1. In a refrigerating system, a condenser unit, a compressor unit, a cooling unit, tubing connecting said units and having a section through which refrigerant flows at a temperature sufficiently high to vaporize water, a pan positioned to collect moisture dripping from the cooling unit, said section of the tubing extending into the pan in heat exchange relation to moisture collected by the pan and having portions removably engageable with adjacent portions of the pan to support the pan in the moisture collecting position aforesaid.

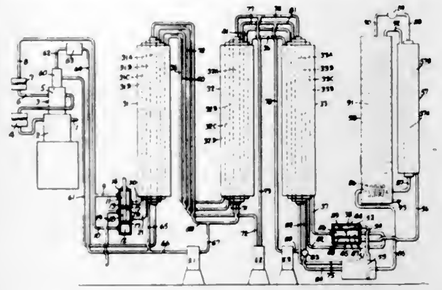
2,667,043

METHOD AND APPARATUS FOR THE SEPARATION OF GASES

Samuel C. Collins, Watertown, Mass., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application April 22, 1950, Serial No. 157,610
21 Claims. (Cl. 62—123)

1. Method of separating oxygen from atmospheric air which includes passing compressed atmospheric air through a circuit including a column and a series of heat exchangers in heat exchange relation with nitrogen effluent from the column, providing necessary additional refrigeration in the heat exchangers by cooling purified air in a separate circuit and passing at least some of the cooled purified air through said several heat exchangers in the same direction



as but in a separate path from the nitrogen effluent, and commingling the compressed atmospheric air and the cooled purified air in a chamber common to both circuits.

2,667,044

APPARATUS FOR AND METHOD OF SEPARATING GASES

Samuel C. Collins, Watertown, Mass., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application February 9, 1951, Serial No. 210,147
22 Claims. (Cl. 62—123)

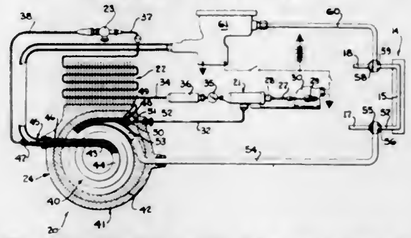
1. In a method of separating a gaseous mixture into its components, wherein the compressed gaseous mixture is rectified in a rectification column, the improvement comprising: cooling the compressed gaseous mixture in a first heat exchanger by heat exchange with at least one of the products of rectification, passing the mixture to the column for rectification therein, compressing a gas rich in said one product in a compressor, cooling said compressed gas in a second heat exchanger by heat exchange with expanded gas, dividing at least a portion of the thus cooled gas into two streams, passing one of said two streams to an expansion engine, expanding said one stream with the performance of external work, liquefying the other of said two streams in a liquefier by heat exchange with expanded gas, passing the thus liquefied stream to the column, dividing the stream of expansion engine exhaust, passing a portion of the exhaust to the compressor by way of the liquefier and the second heat exchanger, passing another portion of the exhaust to the compressor by way of a passage in at least the cold end of the first heat exchanger, withdrawing a stream of gas in the vapor state from the column, and passing the withdrawn stream of gas into the expansion engine exhaust.

2,667,045

COOLING SYSTEM FOR AUTOMOTIVE VEHICLES

Chester A. McCarty, Palm Springs, Calif.

Application July 28, 1951, Serial No. 239,099
3 Claims. (Cl. 62—125)



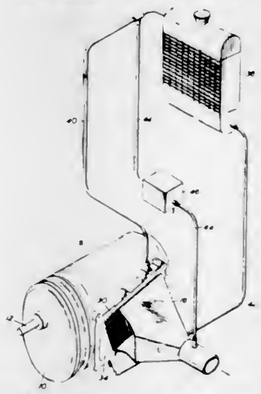
1. The combination with the evaporator of a closed refrigerating system and a closed secondary fluid conducting system containing a secondary fluid transmissible to a heat exchange coil, of means for effecting transfer of the cooling effect from said evaporator to said secondary fluid, comprising a drum-like housing, a pair of coaxial tubes spirally coiled within said housing from an inner convolute substantially centrally of said housing to an outer convolute spaced inwardly from the inner side of the peripheral wall of said drum-like housing, the inner one of said pair of coaxial tubes constituting the evaporator coil of said closed refrigerating system, and the outer tube of said pair of coaxial tubes communicating with said secondary fluid system for transferring the cooling effect of said evaporator coil to said secondary fluid system.

2,667,046

COOLER FOR GAS LEAVING ROOTS BLOWERS

Costin Lane Densham, Horley, England, assignor to Wade Engineering Limited, Horley, England, a British company

Application March 3, 1952, Serial No. 274,614
Claims priority, application Great Britain March 7, 1951
2 Claims. (Cl. 62—135)



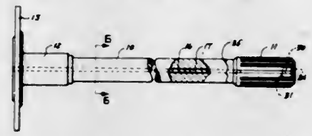
1. A Roots blower having a casing defining an outlet port, an outlet duct leading from said outlet port, a grid-like evaporator in said outlet port, a condenser external to said casing and outlet duct, and pipe connections between said evaporator and condenser whereby vapour produced by evaporation of a volatile liquid in the evaporator travels to the condenser where it is condensed and whence condensed liquid returns to the evaporator.

2,667,047

REAR AXLE FOR VEHICLES

William Charles Mennear, New Westminster, British Columbia, Canada

Application March 6, 1950, Serial No. 147,783
3 Claims. (Cl. 64—1)



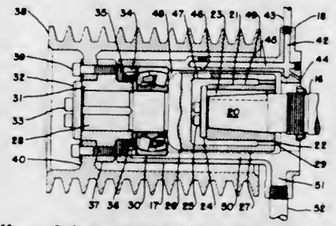
1. An improved rear axle for vehicles such as trucks, automobiles and the like, comprising a shaft splined at one end for connection to the differential of a vehicle, said shaft having a central passage extending therethrough from end to end thereof, a cable extending the length of the passage, a recess in the splined end of the shaft registering with the passage end, a flange on the end of the cable rotatably fitting in said recess, and means at the opposite end of the cable connecting said cable to the adjacent shaft end.

2,667,048

DRIVE CONNECTION

Joseph E. Whitfield, Erie, Pa., assignor to Read Standard Corporation, a corporation of Delaware

Application February 23, 1950, Serial No. 145,876
1 Claim. (Cl. 64—4)



A pulley drive connection for an operating shaft projecting from the housing of a device actuated by said shaft, comprising a cylindrical support member adapted for attachment to said housing surrounding said shaft projection, a pulley surrounding said support member, a bearing carried by said cylindrical support member and an adapter shaft journaled in said bearing, means for securing said pulley to said adapter shaft, a driving connection between said adapter shaft and said operating shaft projection, and a common lubricating system for said device and said bearing and driving connection comprising a lubricant inlet and outlet in said support member and lubricant feed passages in said support member providing communication between said inlet and said device and said bearing and driving connection, and lubricant discharge passages in said support member providing communication between said outlet and said device and said bearing and driving connection.

2,667,049

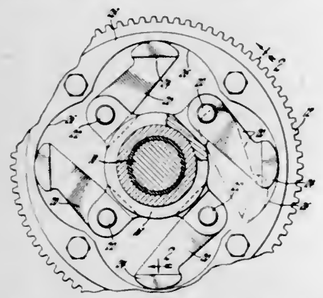
TORSIONAL VIBRATION ISOLATING COUPLING

Robert W. Guernsey, Detroit, and Ray C. Ulrey, Livonia, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application February 2, 1950, Serial No. 142,046
3 Claims. (Cl. 64—19)

1. A flexible coupling for rotatable members including: a driving member, a driven member,

one of said members having an internal surface including a series of concave friction surfaces whose centers of radii of curvature lie between the center of rotation of said member and said surface, said other member being formed to provide a plurality of peripherally spaced elements projecting radially therefrom, a plurality of arms pivotally connected at one end to said elements, said pivots lying outside the center of radii of said members, said arms having enlarged weighted portions rigidly formed thereon remote from said pivots, said portions being provided with convex friction surfaces of smaller radii of curvature



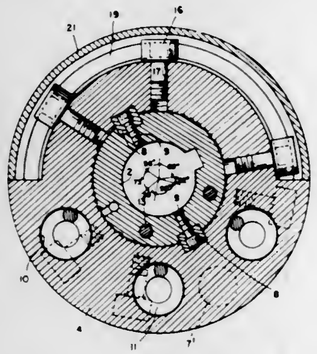
than said concave surfaces and capable of frictionally engaging said concave surfaces to permit the transmission of driving torque therebetween, the frictional forces between said convex and said concave surfaces being of such magnitude as to cause torsional damping, said arms being movable about said pivots to positions abutting said other member intermediate their respective pivots and enlarged portions, the enlarged portions of said arms being adapted to engage with said concave surfaces in said abutting positions to rigidly transmit torque between said members.

2,667,050

OVERLOAD PROTECTOR

Paul Klamp, Detroit, Mich., assignor to Mechanical Handling Systems, Inc., Detroit, Mich., a corporation of Michigan

Application October 30, 1950, Serial No. 192,893
1 Claim. (Cl. 64—29)



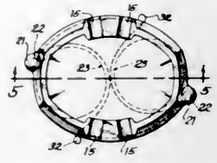
An overload protector comprising substantially coaxial rotatable members supported for axial and rotative movement relative to each other, spring means for yieldably urging said members toward each other, one of the members having at least six recesses extending radially with respect to the axes of the members, the angular spacing of any adjacent pair of said recesses differing from the angular spacing of any other adjacent pair of said recesses, a series of elements on the other member, said elements corresponding in number to the number of recesses and being angularly spaced in accordance with the spacing of said recesses whereby all of said elements engage with said recesses when said members are in a single relative position, the aforesaid angular spacing of the recesses and elements being such that when said members are in any relative rotative position other than said single position at least three of said elements are out of registration with any of said recesses and the lines connecting said three elements form a triangle in which said axes are enclosed.

2,667,051

COMBINED ASH RECEIVER AND COASTER UNIT

Phillip J. Mesi and Stanley T. Ogorek, Chicago, Ill., assignors to Totebrush, Inc., Chicago, Ill., a corporation of Illinois

Application March 23, 1951, Serial No. 217,234
2 Claims. (Cl. 65—53)



1. A combined ash receiver and coaster unit comprising a substantially elliptical body having an ash-receiving depression therein, and a pair of peripherally-spaced wall portions and openings extending downwardly from said body at the periphery thereof for spacing the floor of said depression above a supporting surface, a pair of diametrically-opposed coaster trays pivotally suspended from said body for swinging movement on individual vertical axes through said openings into and out of the space below said floor for concealment or for use respectively, said trays having a substantially circular periphery, the diameter whereof is substantially equal to half the major axis of the elliptical body, said vertical axes being disposed on a line passing through the center of the ellipse, the said wall portions and the exterior portion of each said tray when in concealed position being co-planar with the periphery of said body.

2,667,052

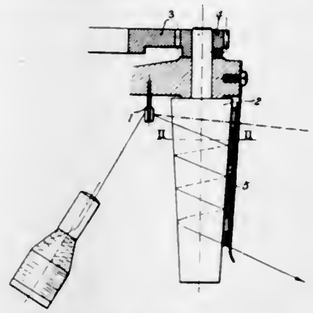
THREAD FEEDER FOR KNITTING AND HOSIERY MACHINES

Bernard Jules Ernest Lebocey, Troyes, France, assignor to Societe a Responsabilite Limitee so-called: Lebocey Machines, Troyes, France

Application May 9, 1950, Serial No. 160,851
Claims priority, application France June 2, 1949
4 Claims. (Cl. 66—132)

1. A self-regulating device for the delivery of yarn under a practically constant tension to knitting and hosiery machines, which comprises a rotary tapered member having an even peripheral surface of revolution, the yarn supplied to the machine being wound over said even surface of the tapered member in several helical turns from the broader to the narrower end of said tapered member, means to drive said member at an angular speed at which the peripheral speed of all points of said surface is higher than the maximum rate at which the yarn may be taken up

by the machine, and a stationary member in slight frictional engagement with at least some of said helical turns wound around the rotary member, thereby exerting a continuous braking action



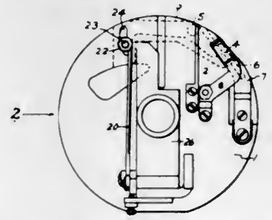
upon said turns and facilitating these latter to loosen from the surface of the rotary member whenever the speed at which the yarn is taken up by the machine happens to decrease.

2,667,053

MECHANISM FOR DOUBLE SOLE TRIMMING

Eugene St. Pierre, Pawtucket, and Joseph Wawzonek, Cumberland, R. I., assignors to Hemphill Company, Pawtucket, R. I., a corporation of Massachusetts

Application May 20, 1952, Serial No. 288,798
6 Claims. (Cl. 66—134)



1. A yarn cutter and binder for a circular, independent needle, knitting machine of the dial type which comprises a dial cap having a recess, a lever with a cutting blade having a sharp edged side and a dull edged side pivotally mounted in said recess, means for operating said lever so as to move said blade between an "open" position and a "binding" position, a first member mounted in said recess and having a cutting edge held against the sharp edged side of said cutting blade when said blade is in the "binding" position, and a second member also mounted in said recess and having a dull edge resiliently and adjustably held against the dull edged side of said cutting blade when said blade is in the "binding" position.

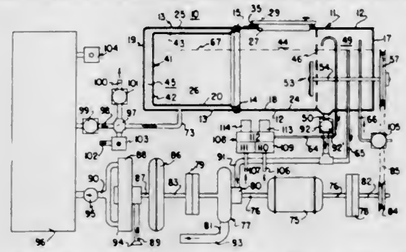
2,667,054

CLOTHES-WASHING AND SQUEEZE-DRY MACHINE

George P. Castner, Webster City, Iowa, assignor of forty-nine per cent to Douglas O. Baird, Skokie, Ill., and fifty-one per cent to Speed-Flex, Inc., a corporation of Iowa

Application February 18, 1950, Serial No. 144,890
11 Claims. (Cl. 68—21)

1. In a clothes washing machine including a tub defining a fluid-tight compartment adapted to contain clothes and wash liquid, said tub having an opening formed in the upper portion thereof rendering said compartment accessible from the exterior, a door mounted for movements between open and closed positions with respect to said opening, said door in its closed position being sealed to said tub to render said compartment fluid-tight, and mechanism operative to produce a washing action upon the clothes in said compartment; the combination comprising an inlet conduit communicating with said compartment, a wash liquid supply system connected to said inlet conduit, an inlet valve included in said inlet conduit, means for selectively controlling the position of said inlet valve, a vent conduit communicating between said compartment and the atmosphere, a vent valve included in said vent conduit, means for selectively controlling the position of said vent valve, a drain conduit communicating with the lower portion of said compartment, a drain valve included in said drain conduit, means for selectively controlling the position of said drain valve, an overflow conduit communicating with the upper portion of said compartment and establishing the normal level of the wash liquid in said compartment, a fluid pump communicating with both said drain con-



duit and said overflow conduit and operative to withdraw excess wash liquid from said compartment via said overflow conduit and to withdraw substantially all of the wash liquid from said compartment via said drain conduit when said drain valve is open, said fluid pump also being operative to withdraw air from said compartment via said overflow conduit and via said drain conduit when said drain valve is open so as to create a partial vacuum in said compartment when said vent valve is closed, the wash liquid and the air withdrawn from said compartment by said fluid pump being discharged thereby to the exterior, means for operating said fluid pump, and a flexible diaphragm forming at least a portion of a wall of said compartment and movable from a normal position into an operated position to exert a squeezing action between said diaphragm and said mechanism upon the clothes in said compartment so as to express the wash liquid from the clothes, said diaphragm having an outside surface subjected to atmospheric pressure so that said diaphragm is moved thereby from its normal position into its operated position in response to the evacuation of said compartment.

2,667,055

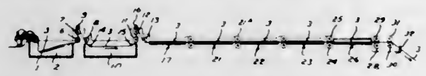
APPARATUS FOR THE FLUID TREATMENT OF YARN

Hermann Karlen, Emmenbrucke, near Lucerne, Switzerland, and Eugène Colombu, Paris, France, assignors to Societe de la Viscose Suisse, Emmenbrucke, near Lucerne, Switzerland, a Swiss company

Application January 19, 1950, Serial No. 139,434
Claims priority, application Great Britain January 26, 1949
5 Claims. (Cl. 68—22)

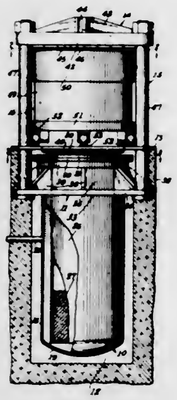
1. An apparatus for the treatment of a plurality of parallel bundles of regenerated cellulose

filaments, which comprises a plurality of liquid treating stages, each treating stage comprising a set of parallel shallow troughs having solid liquid-retaining bottoms, side walls and open ends, the sets of troughs of successive treating stages being arranged in line, pairs of squeeze rollers between successive treating stages and at the end of the last treating stage in the line, the nips of said squeeze rollers lying in a plane extending parallel to and above the bottoms of said troughs and below the tops of the side walls thereof whereby



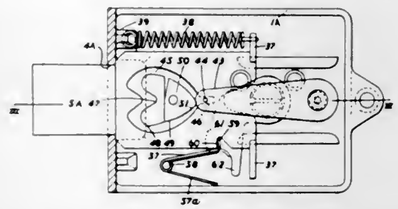
said bundles extend in parallel straight lines through the troughs and the nips of the pairs of squeeze rollers from one end to the other of the liquid treating stages, means for feeding parallel bundles of regenerated cellulose filament through the said parallel series of troughs and through the nips of said squeeze rollers, means for passing treating liquid to the leading end of each trough with respect to the direction of feed of the bundles to be drawn along with the bundle, and means for collecting liquid from the trailing end of each trough.

2,667,056
MOISTURE-EXTRACTING PRESS
George N. Strike, Los Angeles, Calif.
Application April 14, 1948, Serial No. 21,018
3 Claims. (Cl. 68—241)



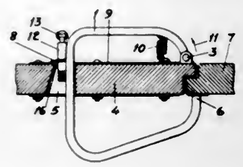
1. A press of the character described comprising, in combination, hydraulic means including a fixed cylinder and a ram movable in said cylinder, a base member anchored in the walls of a pit in which the hydraulic means is positioned and supporting said cylinder, a floor extending across the top of the pit and having an opening through which the ram is adapted to move, the operating end of the ram being normally flush with said floor, a press head aligned with the hydraulic means and spaced from the floor, spaced members connecting the press head and base member, a portable truck for receiving wet wash and movable along the floor and between the spaced members to a position between the ram and the head, and a locating stop for the truck carried by the spaced members to align said truck with the ram, said locating stop having a portion transversely shaped similar to the transverse shape of the truck to constitute a nest centering the truck with the ram, said truck having a movable bottom that is adapted to be moved toward the head by the ram to compress the wash in the truck, said truck bottom including means automatically compensating for any variations in the thickness of the articles comprising the wash whereby substantially uniform pressure is exerted on all of the articles of wash.

2,667,057
LOCK FOR DOORS AND THE LIKE
Harold Thorne, London, England
Application August 17, 1949, Serial No. 110,769
2 Claims. (Cl. 70—143)



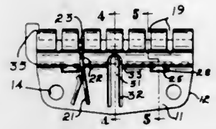
1. A latch-type lock comprising a casing, a double throw bolt slidably mounted in said casing, a spring urging said bolt towards a full throw position, a labyrinth cam track carried by said bolt, a detent pivoted in said casing and having a tail riding in said cam track, a half throw notch in said track engaged by the tail to control the throw of the bolt, and a gate member pivotally mounted on said bolt having a surface constituting a part of said cam track and ensuring unidirectional travel of the tail around said track as the bolt is reciprocated so that the tail moves alternately between a bolt held position and a bolt free position.

2,667,058
LOCK FOR SWINGING DOORS
Curt Primus Skoglund, Linkoping, Sweden, assignor to Gunnar Edstroms Maskinaffar, Jonkoping, Sweden
Application May 11, 1950, Serial No. 161,393
1 Claim. (Cl. 70—150)



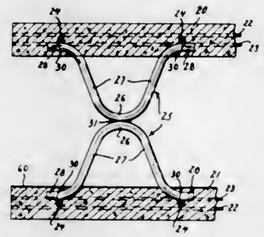
A lock for a swinging door including an arcuate operating member pivotally mounted on the door near the free edge thereof and a spring urging the member toward closed position, said operating member having one end pivoted to the door, an intermediate portion passing freely through the door, and a free end adapted to rest against the door jamb in the closed position and facing toward said pivoted end, and a locking device secured on said arcuate member comprising a movable latch having means extending therefrom to engage the door and retain said arcuate member in closed position.

2,667,059
KEY LOOP SUPPORTING PLATE
Morgan V. Duell, Oakville, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application January 20, 1951, Serial No. 207,023
2 Claims. (Cl. 70—456)



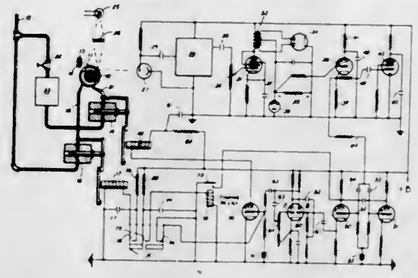
1. In a key holder device to which key loops having enlarged heads may be removably secured comprising a plate member having a flat base part adapted to be attached to a flexible support, a narrow wall extending upwardly from one edge of said base part, an inclined wall supported by said narrow wall and extended into a tubular part with the free end of the latter terminating in a flat section on a plane common with said base part and having its free edge adjacent said narrow wall, said tubular part having spaced circumferential slots terminating in enlarged openings adjacent said flat section and through which openings the key loop heads may be inserted and removed, a retainer bar positioned in said tubular part, means hingedly connecting said bar to said narrow wall and permitting pivotal movement of said bar in said tubular member, spring means normally urging said bar against said flat section in position to partially close off said enlarged openings, and handle means for operating said bar against the influence of said spring.

2,667,060
REINFORCED BUILDING PANEL
Neal J. Campbell, St. Louis, Mo.
Application February 12, 1948, Serial No. 7,845
6 Claims. (Cl. 72—44)



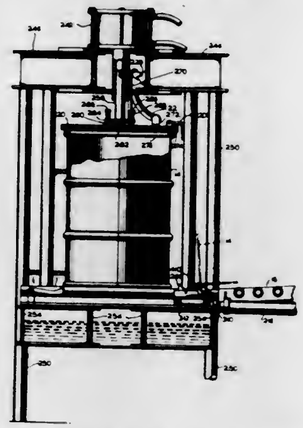
5. A building panel consisting of a concrete slab, a series of laterally and depthwise spaced, substantially parallel elongate pre-tensioned elements within and bonded to the concrete matrix of the slab keeping the slab under permanent compression, rod elements extended across, and depthwise bridging certain of said pre-tensioned elements, a plurality of bracket elements projecting normal to the face of and in predetermined pattern from the slab, said bracket elements being secured to the bridging rod elements and forming closed loops exteriorly of the slab, and means spaced from and in opposed relation to said slab, said means being secured to the exterior loops of said bracket elements, whereby to hold the slab in spaced relation to said means.

2,667,061
TIMING APPARATUS FOR CLOCKS AND WATCHES
Thomas B. Gibbs, Delavan, Wis.
Application June 24, 1948, Serial No. 35,043
14 Claims. (Cl. 73—6)



1. Apparatus for regulating the rate of a balance wheel and hairspring, comprising means for supporting a wheel for oscillation, means including a manually operated switch for delivering a starting impulse of air to said wheel to start the same, means responsive to oscillation of said wheel for generating an electrical impulse each time the wheel stops to change its direction, means for generating running air impulses responsive to the odd electrical impulses, means including a timing device started by operation of said switch for preventing generation of a running air impulse responsive to the first of said electrical impulses, and means for comparing the frequency of said electrical impulses with a standard frequency.

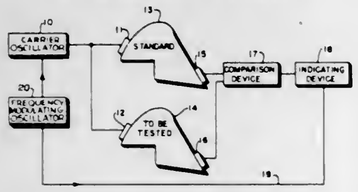
2,667,062
CONVEYER LINE HANDLING AND TESTING OF MANUFACTURED ARTICLES
Stanley S. Johns, Baltimore, Md., assignor to Rheem Manufacturing Company, Richmond, Calif., a corporation of California
Application September 20, 1950, Serial No. 185,825
1 Claim. (Cl. 73—40)



In conveyor line apparatus for testing large air-tight containers, a section of conveyor extending in a horizontal direction, a supporting structure mounted above said conveyor section, a pneumatic cylinder mounted on said supporting structure with the axis of the cylinder extending vertically, a piston in said cylinder having a piston rod extending downwardly therefrom, a seal-

ing plate attached to the lower end of the piston rod, the sealing plate having an aperture therethrough, shuttle means associated with the conveyor section for moving a container along the conveyor to a test position beneath said sealing plate, first limit switch means operated by the container at the test position to actuate valve means to retract the shuttle means to a retracted position, and to introduce air under pressure above said piston to lower the sealing plates into engagement with the top of the container, second limit switch means positioned to be operated by the sealing plate in its lowered position, said second switch means being connected to actuate valve means for introducing air under pressure through said aperture in said sealing plate and into the container being tested, and manually operable switch means connected to operate said first valve means for applying air under pressure below said piston to raise said sealing plate from the container and to operate said shuttle means to move the tested container along the conveyor and at the same time move another container to the test position.

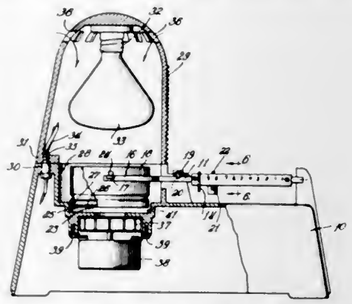
2,667,063
SUPERSONIC INSPECTION DEVICE
Frederic Cunningham, Jr., Springfield Center, N. Y.
Application January 8, 1946, Serial No. 639,893
5 Claims. (Cl. 73—67)



1. Apparatus for inspecting and measuring a solid part, comprising means for generating a frequency modulated, continuous wave signal having a frequency in the supersonic range, means for simultaneously impressing said signal on a selected point on said part and on a corresponding point on a standard part, means for receiving at a second point on said part a first signal resulting from the transmission of said frequency modulated signal through said part, means for receiving at a point on said standard part corresponding to said second point on said part, a second signal resulting from the transmission of said frequency modulated signal through said standard part, and means for comparing said first and second signals, said last-mentioned means providing a signal indicative of the difference, if any, between the amplitude and phase of said first and said second signals.

2,667,064
MOISTURE TESTER
Arthur A. Andersen, Crystal Lake, and Bernard C. Mathews, Cary, Ill., assignors to American Crop-Drying Equipment Company, Crystal Lake, Ill., a corporation of Illinois
Application November 12, 1949, Serial No. 126,816
1 Claim. (Cl. 73—76)

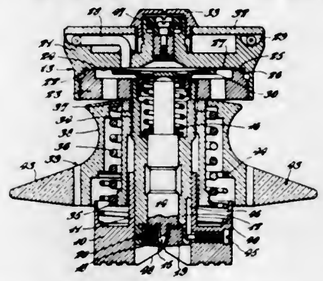
A moisture testing device of the class described comprising an elongated hollow base having an elongated top wall with an opening through one end portion thereof and a dome shaped cover removably mounted on the base over and providing a compartment above said end portion of the top wall, a specimen pan in said compartment and located at said opening for holding the material to be tested, a lamp in said dome shaped cover above the pan and a blower in said hollow base below the pan for heating and circulating air through the material in the pan, a balancing beam which is fulcrumed between its ends and has the portion thereof at one side of the fulcrum projecting into the said compartment and having the pan mounted thereon, said beam having the portion thereof at the other side of the fulcrum projecting laterally from said compartment in an exposed position over the other end portion of said top wall of the casing, said latter exposed portion of the beam having poise means thereon which is movable toward and away from the fulcrum for counterbalancing the pan and its contents, said poise means being adjustable along the beam from a certain indexed minimum



counterbalancing position near the fulcrum in which it counterbalances the pan, to a certain indexed maximum counterbalancing position remote from the fulcrum in which it counterbalances the pan with a certain fixed weight of material therein, and a scale along which said poise means is movable from either of said positions to the other, said scale having percentage calibrations therealong with which said poise means is registratable and which correspond to the percentages of said fixed weight that is counterbalanced by said poise means when the latter is in registration respectively therewith, and percentage indicating numbers at intervals along said scale which indicate the respective percentage of the scale at those intervals and which said numbers progressively increase in value from the aforesaid indexed maximum counterbalancing position to the aforesaid indexed minimum counterbalancing position.

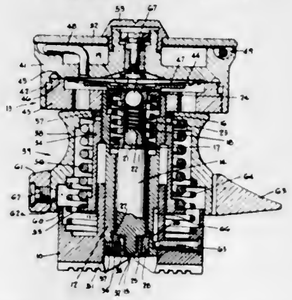
2,667,065
DEVICE FOR TESTING THE HARDNESS OF METALS
Alfredo Ernst, Milan, Italy
Application July 25, 1950, Serial No. 175,829
Claims priority, application Great Britain July 27, 1949
3 Claims. (Cl. 73—81)

1. A device for testing the hardness of metals comprising a plunger, means for applying manual pressure to said plunger to press one end thereof against a metal surface of which the hardness is to be tested, an indentor reciprocably mounted within said plunger, first resilient means interposed between said plunger and said indentor and urging said indentor to a position in which it projects from the said end of the plunger, indicating means operated by relative movement of the indentor and plunger, and second resilient means interposed between the plunger and the manual pressure applying means, both said springs being preloaded, said second resilient means being preloaded in an amount sufficient



to transmit, without yielding, a maximum thrust slightly greater than the load exerted on the indentor by the first resilient means.

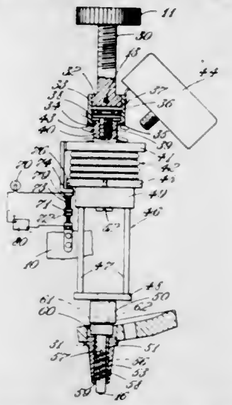
2,667,066
DEVICE FOR TESTING THE HARDNESS OF METALS
Alfredo Ernst, Milan, Italy
Application December 19, 1951, Serial No. 262,387
9 Claims. (Cl. 73—81)



1. A metal hardness tester comprising, in combination, a plunger, means for applying manual pressure to said plunger to press one end thereof against a metal surface the hardness of which is to be tested, an indentor reciprocably mounted within said plunger, first resilient means interposed between said plunger and said indentor and urging said indentor to a position in which one end thereof projects beyond said one end of said plunger, indicating means operated by relative movement of said indentor and said plunger, second resilient means interposed between the plunger and the manual pressure applying means, said second resilient means, being preloaded in an amount sufficient to transmit, without yielding, a maximum thrust greater than the load applied to said indentor by said first resilient means, and shock absorbing means interposed between the other end of said indentor and said indicating means.

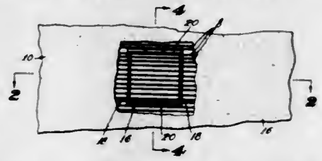
2,667,067
HARDNESS TESTING INSTRUMENT
James Kitchener Pocknee, London, England, assignor to Cabul Tool Company Limited, London, England, a British company
Application March 18, 1952, Serial No. 277,236
4 Claims. (Cl. 73—81)

1. An indentor thrust assembly for a hardness testing instrument comprising a frame, a guide tube supported from said frame, a rod loosely mounted within said guide tube for sliding movement therein in the direction of its long axis, a pin-and-slot connection between the rod and the guide tube, the slot element of said pin and slot connection being substantially parallel with the long axis of said rod, said connection allowing of said sliding movement and also enabling the rod to perform limited pivotal movements



relatively to the guide tube about said pin in the plane of the long axis of the rod, an indentor mounted on one end face of the rod, a thrust producing means carried by said frame, and means abutting the other end face of said rod, to transmit the thrust from said thrust producing means to said rod.

2,667,068
SYSTEM FOR MEASURING THE PRESTRESS OF CONCRETE TANKS
Frederick W. Viehe, Los Angeles, and Courtenay B. Harris, Glendale, Calif.
Application December 3, 1948, Serial No. 63,286
9 Claims. (Cl. 73—88)

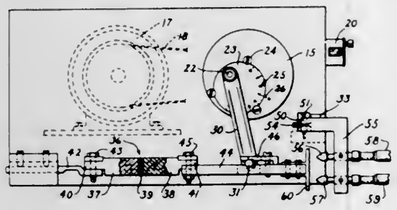


1. In the manufacture of a reinforced tank wherein a tank body is constructed and a wire is wrapped thereon under stress, the improvement which comprises establishing a pair of mutually spaced raised portions on the external wall of said tank body, said raised portions being in sight of each other, bridging the wire over said raised portions while wrapping it onto the tank body under tension, whereby a portion of the wire is freely supported between said raised portions, vibrating said portion of the wire while in place, and measuring the frequency of vibration.

2,667,069
APPARATUS FOR TESTING CALKING AND THE LIKE MATERIALS
Thomas Ramos, New York, Albert W. Cizek, Jr., Valley Stream, and Sidney Weiss, New York, N. Y.
Application May 8, 1951, Serial No. 225,254
3 Claims. (Cl. 73—91)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A flexure testing machine adapted to test a specimen formed of a set of blocks positioned

end to end and adhered to each other by their adjacent end surfaces being adhered together and with a predetermined thickness of the material to be tested constituting the adhesive between the blocks, said testing machine comprising a fixed support for holding one end of the specimen assembly, a reciprocating mechanism, an attachment for securing the other end of the specimen assembly to the reciprocating mechanism to flex the specimen assembly in a direction transversely of its length, a counter to indicate the number of reciprocations, a motor for driv-



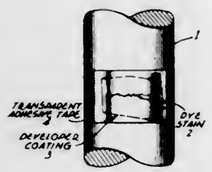
ing the reciprocating mechanism, a control device for the motor, actuating mechanism for the control device operable by elongation of the specimen assembly under flexure stress, the control-actuating mechanism comprising an abutment head secured to the end of the specimen assembly remote from the fixed support, a companion abutment member carried by the control actuating mechanism, and a micrometer adjustment between the abutment head of the specimen assembly and the abutment member of the control-actuating mechanism.

2,667,070

DYE SOLUTION FLAW INSPECTION METHOD

Loy W. Sockman, Los Angeles, and Elliot W. Brady, Inglewood, Calif., assignors, by mesne assignments, to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application March 26, 1949, Serial No. 83,614
9 Claims. (Cl. 73—104)



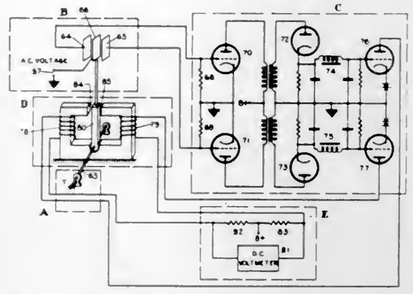
4. The method of inspecting a part for surface defects which comprises applying to a surface of said part a solution of a dye in a penetrant liquid consisting of a volatile liquid and a relatively non-volatile liquid having a higher surface tension than said volatile liquid, said relatively non-volatile liquid consisting essentially of an oxygen-containing organic liquid, removing penetrant liquid from the surface to permit evaporation of part of the volatile liquid from the penetrant liquid remaining in the defect whereby there is an increase in the surface tension of liquid in said defect, and depositing on said surface a layer of finely divided penetrant liquid absorbing material of a color contrasting with that of said dye whereby penetrant liquid will be absorbed in said deposit to form a visible trace.

2,667,071

APPARATUS FOR FORCE BALANCE

Robert A. Ramey and Walter Soller, Cincinnati, Ohio

Application July 18, 1946, Serial No. 684,606
7 Claims. (Cl. 73—133)



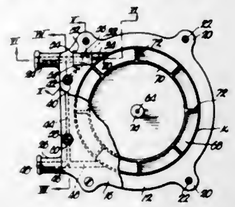
1. In a force balancing system a force structure comprising a torque arm for application of an exerted force, a displacement indicating device comprising a spacially displaceable condenser plate secured to said torque arm and movable with respect to oppositely disposed stationary condenser plates, a balanced amplifier including an electron tube system having at least cathode grid and anode electrodes with said tube system connected in a normally balanced input circuit having a central tap therein, means connecting one of said stationary condenser plates to one of the grids of the electron tube system comprising the balanced amplifier and means connecting the other stationary condenser plate with another grid of the electron tube system of the balanced amplifier, a source of alternating current connected between said displaceable condenser plate and the central tap in said balanced input circuit whereby said alternating current is variably and selectively transferred to said stationary condenser plates according to the movement of said displaceable condenser plate, an output circuit connected with said anode electrodes, and means connected in series with the output circuit of said balanced amplifier for magnetically producing a counterforce to balance the exerted force.

2,667,072

FLOW MEASURING INSTRUMENT

Raymond C. Webster, Kansas City, Mo., assignor to W. E. Anderson, Inc., Kansas City, Mo.

Application July 31, 1950, Serial No. 176,823
5 Claims. (Cl. 73—230)



1. In a flow measuring instrument, a hollow body having a turbine chamber, an elongated cavity communicating with the chamber, an elongated inlet bore, a vertical opening interconnecting the bore and the cavity, and an outlet bore communicating with the chamber, the longitudinal axes of the cavity and the inlet bore being in spaced horizontal planes; a turbine mounted in

the chamber for rotation in response to fluid flowing through the chamber from the cavity to the outlet bore; an indicator operably coupled with the turbine for registering the number of revolutions of the turbine; a plate in the cavity for controlling the flow of fluid through the cavity to the turbine; and means mounting the plate for swinging movement on a horizontal axis toward and away from the uppermost end of said opening, said plate overlying said uppermost end of the opening within the path of fluid emanating from the opening whereby a predetermined pressure of fluid is required to overcome the weight of said plate and swing the same upwardly away from the opening.

2,667,073

THERMOMETER

Ralph C. Wappner, Springfield, Ohio, assignor to The Ohio Thermometer Company, Inc., Springfield, Ohio, a corporation of Ohio

Application August 8, 1951, Serial No. 240,908
1 Claim. (Cl. 73—353)



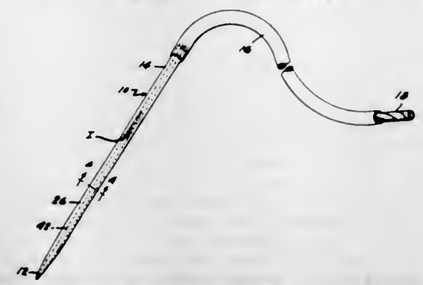
A thermometer comprising an outer glass bulb having a closed lower end portion, an indicator tube enclosed by said bulb and having the reservoir end thereof extending into the said closed lower end portion of said bulb to define a spacing therebetween, and an integral body comprising a homogeneous mixture of fused inorganic salts compactly filling the said spacing between the said reservoir end and lower bulb portion and firmly adhered thereto.

2,667,074

HAEMOCYTOMETER PIPETTE

Stanley M. Whitehill and Fred A. Groth, Chicago, Ill.

Application May 9, 1952, Serial No. 286,904
3 Claims. (Cl. 73—425.4)



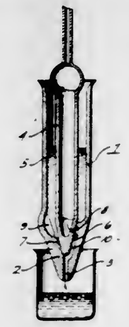
1. A haemocytometer pipette made of a transparent plastic material consisting of an elongated

2,667,075

PROPORTIONAL SAMPLER

Alvin S. Blum and Eugene V. Weiner, Long Beach, Calif.

Application June 19, 1952, Serial No. 294,421
4 Claims. (Cl. 73—425.4)



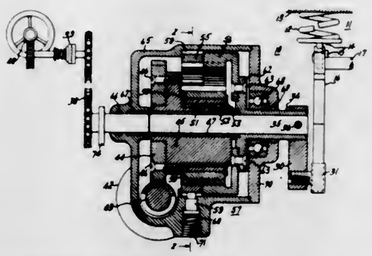
1. A proportional sampler comprising an outer container, an inner container radially spaced from the outer container to define an annular chamber between said containers, said outer container having an outlet duct therein, said inner container having an inlet port therein, said inner container being adjustable relative to the outer container to position the inlet port for communication with the annular chamber in one position of the inner container, and to register the inlet port with the outlet duct in another position of the inner container.

2,667,076

ENERGY STORING OVERRUNNING OPERATING DEVICE

John A. Favre, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York

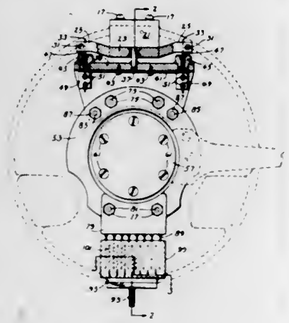
Application November 16, 1950, Serial No. 196,075
12 Claims. (Cl. 74—2)



1. In combination, an energy accumulator having mechanism for operating a load, and an electric driving motor having mechanism including an

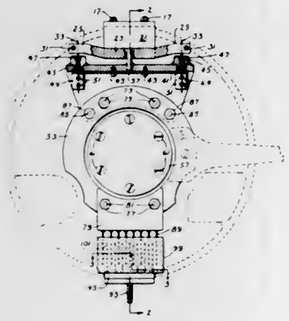
orbital member for charging the accumulator during a partial revolution of the member and provided with a one-way over-running connection for freeing the member from the motor when the energy stored in the accumulator operates the load during the remainder of the revolution of the orbital member.

2,667,077
GYROSCOPE DAMPING DEVICE
Bernard J. Baecher, Sea Cliff, N. Y.
Application August 25, 1950, Serial No. 181,542
3 Claims. (Cl. 74—5.4)
(Granted under Title 35, U. S. Code (1952), sec. 266)



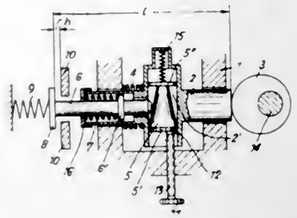
1. In a gyro compass having a rotor mounted in bearings in a rotor case, a first bracket having laterally extending arms mounted on the top portion of such case, a second bracket carrying a weight and a plurality of wires each secured to one of said arms and to said second bracket to maintain said brackets in spaced relation.

2,667,078
GYROSCOPE DAMPING DEVICE
Bernard J. Baecher, Sea Cliff, N. Y.
Application August 25, 1950, Serial No. 181,541
6 Claims. (Cl. 74—5.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)



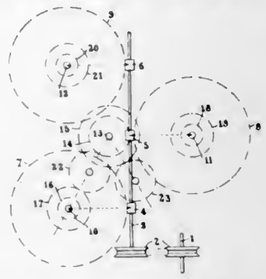
1. In a gyro compass having a rotor case and a ballistic weight carried by said case, a damping device comprising a trough mounted on said rotor case, a viscous fluid carried in said trough, and a plurality of paddles each having opposed planar faces, said paddles being mounted on said weight in spaced and parallel relation and movable in said fluid in the planes of said faces.

2,667,079
RECIPROCATING TAPPET DEVICE OF VARIABLE TAPPET LENGTH
Fritz Müller, Berlin-Marienfelde, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, and Erlangen, Germany, a corporation of Germany
Application July 24, 1952, Serial No. 300,568
Claims priority, application Germany October 24, 1951
7 Claims. (Cl. 74—55)



1. In a reciprocating tappet device of variable tappet length, a tappet assembly comprising a reciprocatorily guided tappet body, a tappet member inserted into said body and being axially displaceable relative to said body, an adjusting structure disposed in said body and being displaceable relative to said body in an angular direction to the tappet axis, said structure having a slanted slide surface, spring means engaging said body and said member and biasing said member against said structure so that the axial length of said assembly depends upon the displacement position of said structure, and stationarily mounted control means for displacing said structure.

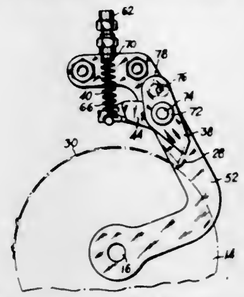
2,667,080
CHANGE-SPEED GEAR
Paul Durand, Paris, France
Application March 7, 1951, Serial No. 214,348
Claims priority, application France March 13, 1950
4 Claims. (Cl. 74—353)



1. Change-speed gear comprising an input shaft and an output shaft, a plurality of worms carried by said input shaft, an equivalent number of worm wheels carried by shafts parallel with, and positioned at equal intervals from said output shaft, each of said worm wheels meshing with one of said worms, said worm wheels and worms being so arranged that each worm-and-wheel gearing constituted thereby will act as a speed reducing gearing and that the respective speeds of said worm wheels will lie in definitely different portions of the speed range, at least one series of equally-dimensioned toothed pinions each carried in a common plane by the shaft of a corresponding worm wheel, a toothed pinion carried by said output shaft and registering with said series of pinions and in the common plane

of the said series, a supporting member rotatably and coaxially mounted on said output shaft, a toothed pinion carried by said supporting member and registering with said series of pinions and in the same plane as the said series, the diameter of said pinion carried by said supporting member being such that it can simultaneously mesh on the one hand with said pinion carried by said output shaft and corresponding to said series of pinions, and on the other hand with that pinion of said same series which is carried by any one of said shafts of said worm wheels, except pinions of the same series but carried by the shafts of other worm wheels, according to the position given to said rotary supporting member whereby the latter will enable said output shaft to be driven through one worm-and-wheel reducing gearing but not through the other.

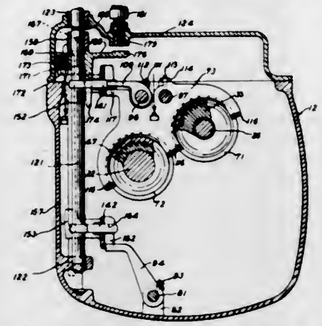
2,667,081
OPERATING DEVICE FOR CHANGE-SPEED GEARINGS OF BICYCLES
Ivar Alvar Asp, Hagersten, and Olof Gunnar Berg, Huskvarna, Sweden, assignors to Husqvarna Vapenfabriks Aktiebolag, Huskvarna, Sweden, a corporation of Sweden
Application November 20, 1950, Serial No. 196,624
7 Claims. (Cl. 74—473)



1. An operating device for bicycle change speed gearings comprising in combination with a rotary driving member of the change speed gearing, an operating member adapted to be entrained by said rotary driving member and mounted movably thereon to enable motion thereof relatively to the driving member against friction for shifting from one speed to another, and a manually operable stop to be mounted on the frame of the bicycle and being displaceable from a releasing position to a stopping position for said motion of the operating member and the driving member relatively to one another, the driving member being formed with a restoring surface for restoring the stop to the releasing position after a change of the speed, a part of the stop in its stopping position being located in the path of motion of said restoring surface.

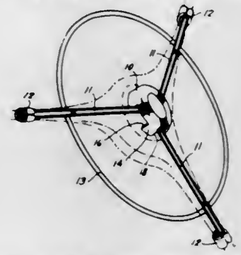
2,667,082
TRANSMISSION CONTROL
Harold L. Brock, Detroit, and James R. Stevenson, Ann Arbor, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Original application June 27, 1950, Serial No. 170,658. Divided and this application November 29, 1951, Serial No. 259,744
7 Claims. (Cl. 74—477)

1. In a variable speed power transmission having a transmission housing containing a drive shaft, a countershaft, an idler shaft and a driven shaft with inter-meshing gears on said shafts and clutch means arranged to selectively couple certain of said gears to each other and to said shafts to obtain various gear ratios between said drive and driven shafts, the combination of vertically spaced horizontally extending shifter rails mounted in said housing, reciprocable forks on said rails engaging said clutch means to operate the latter, a vertically extending shifter shaft mounted in said housing for vertical reciproca-



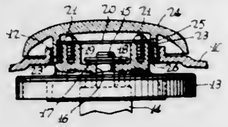
tion and also for angular movement, a manually operable lever connected to said vertical shifter shaft to operate the latter, a lug carried by each of said shifter rails and extending toward said vertical shifter shaft, each of said lugs having a pair of axially spaced slots formed therein, and shifter arms carried by said vertical shifter shaft, said arms being selectively engageable with the slots in said lugs to shift said rails between different operating positions.

2,667,083
HORN RING
Linus E. Russell, Springfield, Ohio, assignor to Peters & Russell, Inc., Springfield, Ohio, a corporation of Ohio
Application July 21, 1950, Serial No. 175,060
10 Claims. (Cl. 74—484)



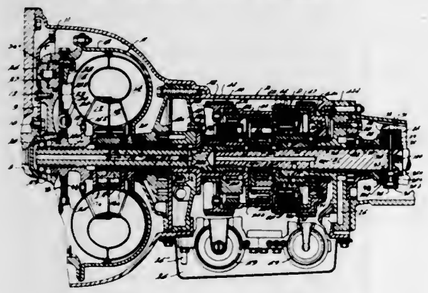
7. A horn ring for mounting on steering wheels, including head member to overlie the horn button, said member presenting an inturned peripheral flange to rest on the horn button and an inwardly projecting axial screw socket, radial slots in the flange on said head member, a plurality of arms having their inner ends in superimposed relation to one another on said screw socket and extending radially outward through said slots, a screw extending through said arms and into said socket, said screw providing a pivot about which said arms may be individually adjusted for alignment with the spokes of the steering wheel, resilient attachment means on the outer ends of said arms to engage said spokes, a ring surrounding said head member, and clamp fingers on said arms extending in embracing relation to said ring and maintaining a frictional sliding contact of said ring with said arms.

2,667,084
MANUAL CONTROL MECHANISM
William MacNamara, Philadelphia, Pa., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 12, 1951, Serial No. 231,165
6 Claims. (Cl. 74—504)



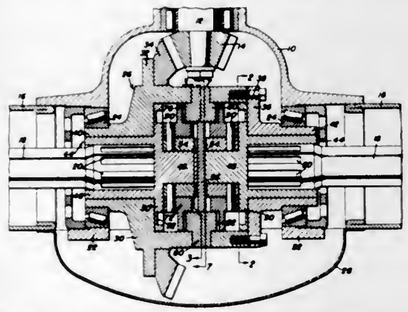
1. A manual control mechanism for apparatus whose operation is to be controlled by a manually rotatable member, comprising a rotatable member to be actuated having an annular projection, a flat resilient element extending diametrically across the end of said projection, said element having transversely elongated apertures at its places of engagement with the end of said projection, screws extending through said apertures to secure said element to said projection, said apertures permitting adjustment of said element relative to said member, said element having turned end portions adjacent to the outer wall of said projection, and a manually rotatable member having an annular projection surrounding said first annular projection, the surrounding projection having internal recesses seating said end portions and frictionally engaging the same to effect firm attachment of said members.

2,667,085
HYDRODYNAMIC TRANSMISSION
Paul C. Ackerman, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 18, 1950, Serial No. 150,490
24 Claims. (Cl. 74—645)



1. An engine driven power transmission unit comprising a driving member, a hydrokinetic torque converter including an impeller wheel drivingly connected to the driving member, a runner wheel, a guide wheel, and converter lock-up clutch means adapted to mechanically connect the impeller and runner wheels, a gear box including an input shaft drivingly connected to the runner wheel, an output shaft, a planetary gear train adapted to be drivingly connected between said input and output shafts comprising an annulus gear drivingly connected to the input shaft, a sun gear concentrically and rotatably mounted with respect to said annulus gear, brake means adapted to anchor said sun gear against rotation, a planet pinion carrier drivingly connected to said output shaft, a planet pinion rotatably mounted on said planet pinion carrier and arranged in meshing engagement with said annulus gear and said sun gear, and a direct drive clutch means for said planetary gear train adapted to drivingly connect said carrier and sun gear, and control means for said converter clutch, planetary brake and direct drive clutch including output shaft speed responsive and engine torque responsive control valving to automatically control the engagement and disengagement of said converter lock-up clutch means and said planetary brake means and direct drive clutch means, said control means being arranged to selectively provide a first starting underdrive ratio from said driving member through said converter and activated gear train to said output shaft and a second starting direct drive ratio from said driving member through said converter and the engaged direct drive clutch to said output shaft, said control means being adapted to automatically upshift each of said starting drive ratios to a positively connected, one-to-one, direct drive ratio from said driving member to said output shaft.

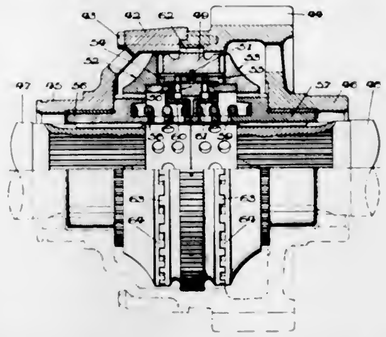
2,667,086
NO-SPIN DIFFERENTIAL
James Amour, Frackville, Pa.
Application October 16, 1950, Serial No. 190,422
4 Claims. (Cl. 74—650)



1. A differential mechanism comprising a rotatable housing, means for rotating said housing, a pair of driven members journaled in said housing having their adjacent inner ends disposed in axially spaced relation, a body rotatably journaled in said housing upon each driven member, a clutch plate on each driven member, overrunning clutch elements movably mounted on each body, the clutch elements on each body being operatively engageable with the clutch plate adjacent that body, means drivingly connecting said clutch elements to said housing for rotation thereby, a pressure plate in said housing disposed between the adjacent ends of the driven members, resilient means operatively interposed between said pressure plate and said bodies for using the latter towards their adjacent clutch plates.

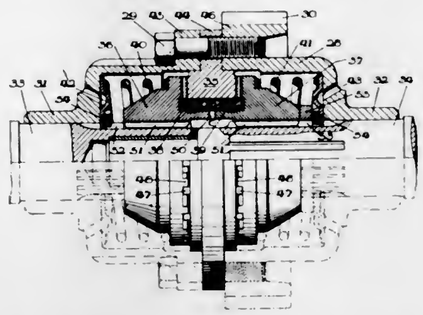
2,667,087
TRANSFER CASE DIFFERENTIAL MECHANISM
Albert F. Myers, Berkley, Mich., assignor, by mesne assignments, to Patent Developers, Inc., Detroit, Mich., a corporation of Michigan
Application October 10, 1951, Serial No. 250,664
23 Claims. (Cl. 74—650)

1. A differential mechanism of the class described comprising a driving member, a pair of driven members, cooperating clutch elements on said driving and driven members for transmitting torque from said driving member to said driven members, at least one of said driven members being axially movable relative to said driving member, means including a cam member mounted within said driving member for causing the axial separation of said axially movable driven member and the driving member and disengagement of the cooperating clutch elements thereof when the velocity of said driven member exceeds that of said driving member, and a holdout ring rotatably mounted on one of said cam and axially movable driven members for maintaining said axial separation so long as the



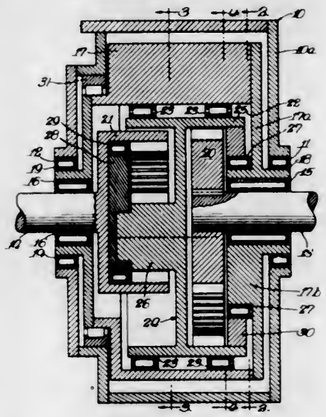
velocity of said driven member exceeds that of said driving member, said holdout ring and the other of said cam and axially movable driven members being so constructed and arranged that said ring is free to rotate a limited amount relative to said other member, said other member including means for immobilizing said ring with respect thereto after said limited movement has taken place, whereupon the member on which said holdout ring is mounted rotates relatively to said ring so long as the velocity of the axially movable driven member exceeds that of the driving member.

2,667,088
TRANSFER CASE DIFFERENTIAL MECHANISM
Albert F. Myers, Berkley, Mich., assignor, by mesne assignments, to Patent Developers, Inc., Detroit, Mich., a corporation of Michigan
Application December 3, 1951, Serial No. 259,570
22 Claims. (Cl. 74—650)



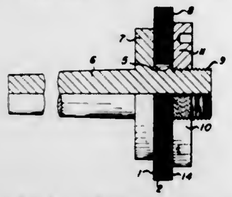
1. In a transfer case differential for a pair of opposed axle driving shafts of the type embodying two sets of meshing driving and driven clutch elements, the combination of a cam member fixed to each of said driven clutch elements, said cam members having cam teeth cooperating with one another to disengage one set of driving and driven clutch elements by axial movement in one direction of the driven clutch element relative to the associated driving clutch element when the associated axle overruns the driving clutch element, a holdout ring carried by said axially movable driven clutch element which, upon overrunning, initially moves both axially and rotatably with said element relative to the associated driving clutch element and the other set of driving and driven clutch elements, surfaces on said ring which, during said initial movement, come into contact with cooperating surfaces on the other driven clutch element and prevent axial movement of said axially movable driven clutch element in the opposite direction to effect reengagement with the driving clutch element, and means on said other driven clutch element operable when said surfaces come into contact for preventing further movement of said ring relative to said means as long as the overrunning continues, said ring being so mounted on said axially movable driven clutch element as to permit the latter to rotate relative to said ring as long as the latter is immobilized with respect to said means.

2,667,089
DIRECT DRIVE TRANSMISSION WITH AUTOMATICALLY LOAD RESPONSIVE RANGE OF LOW GEAR RATIOS
Charles E. Gregory, Chicago, Ill.
Application July 8, 1950, Serial No. 172,722
3 Claims. (Cl. 74—751)



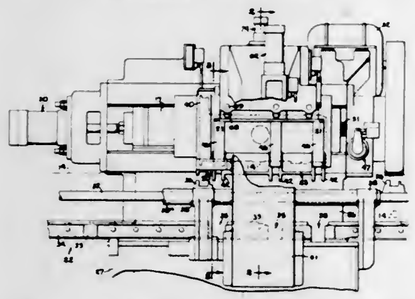
1. A direct drive transmission with an automatically load responsive range of low gear ratios, comprising: an input shaft provided with an integral spur gear; an output shaft coaxial with said input shaft and having an integral ring gear which is substantially smaller than said spur gear; a rotatable gear carrier surrounding said spur gear and ring gear and coaxial therewith, said gear carrier having a circular gear carrying cavity which has its center eccentric with respect to the aforesaid axis; and a compound gear freely rotatable in said gear carrying cavity, said compound gear having a ring gear portion which meshes with the spur gear on the input shaft and a spur gear portion which meshes with the ring gear on the output shaft, and said portions being so proportioned as to provide a gear reduction between said spur gear and said ring gear except in direct drive.

2,667,090
METHOD OF MAKING GEAR TOOTH SHAVING TOOLS
Louis D. Martin, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 4, 1952, Serial No. 324,068
4 Claims. (Cl. 76—101)



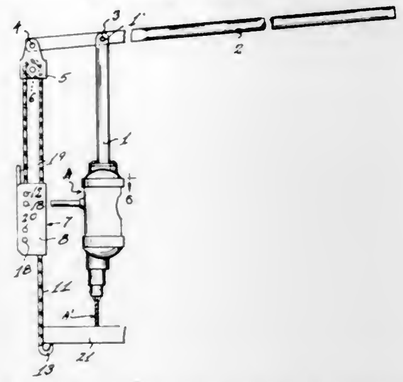
3. A method of making a gear tooth shaving tool comprising building up a block out of components comprising hard steel plates and soft nonferrous plates, the hard steel plate components and the soft nonferrous plates being alternately arranged and securely united over their facing surfaces, forming teeth on the edges of the block and into the edges of the component plates, and treating the block thus formed with an etching fluid attacking the softer components but not the hard components to expose the sharp cutting edges of the steel components.

2,667,091
BORING MACHINE
Earl M. Bowen, Rockford, Ill., assignor to The Ingersoll Milling Machine Company, Rockford, Ill., a corporation of Illinois
Application September 19, 1951, Serial No. 247,252
9 Claims. (Cl. 77—3)



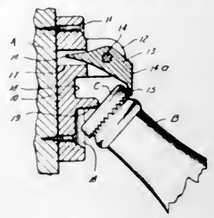
1. In a boring machine, the combination of, a frame, a horizontally facing locating surface on said frame having dowels projecting from the surface, a support projecting from said surface and adapted to support a boring tool, a horizontal pivot disposed below and parallieling said locating surface, a cradle of L-shaped cross section having one leg suspended from said pivot and a second leg projecting horizontally away from said surface, a horizontal conveyor by which an opensided workpiece may be supported open side up and moved to a position above said second leg, means for swinging said cradle outwardly and upwardly about said pivot to pick a workpiece from said conveyor, turn the same through a quarter revolution, and present the piece opposite said surface and said dowels with said tool support projecting into the workpiece opening, an arcuate guideway on said frame engaging the workpiece during upward swinging thereof to hold the workpiece against endwise movement, and a pusher mounted on said frame and movable relative thereto into engagement with the elevated workpiece to push the same onto said dowels and against said locating surface.

2,667,092
TOOL SUPPORTING MEANS
George W. Schaffer, St. Louis, Mo.
Application August 15, 1950, Serial No. 179,579
3 Claims. (Cl. 77—7)



1. A take-up mechanism for a tool supporting means comprising a tool having an extended part, a lever pivotally attached to said extended part of said tool, a head pivotally attached to said lever, a rotatable member supported by said head, and a flexible element operating over said rotatable member, said take-up mechanism comprising a housing within which an end portion of said flexible element is attached and through which another portion of said flexible element extends, and means forming part of said take-up mechanism for clamping and releasing said other portion of said flexible element with respect to said housing, said means comprising a clamping member movable toward and from a wall of said housing for clamping a portion of said flexible element between said clamping member and said wall of said housing, and for releasing said portion of said flexible element for movement relative to said clamping member and said wall of said housing, and means for moving said clamping member comprising a lever pivoted to said housing and having a cam portion which engages and moves said clamping member on movement of said lever.

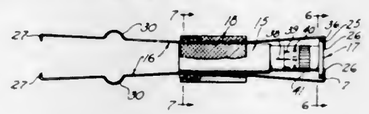
2,667,093
BOTTLE OPENER WITH PIVOTALLY MOUNTED CAP SKIRT ENGAGING MEANS
Guy Leonard, Houston, Tex.
Application December 7, 1951, Serial No. 260,433
2 Claims. (Cl. 81—3.3)



1. A bottle opener comprising a base plate, spaced lugs on said base plate extending laterally

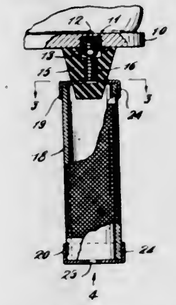
therefrom, a cap engaging element pivotally mounted on said lugs for limited longitudinal swinging movement on said base plate, a cap engaging claw on the outer end of the element for engaging beneath the edge of a crown cap attached to a bead at the mouth of a bottle, a projection extending laterally from the surface of the base plate and spaced from the claw of the pivoted element longitudinally and laterally by a distance which will cause engagement of the projection with the central portion of the cap when the claw element is engaged beneath the edge of said cap to cause an outward flaring of the edge of said cap as said bottle is moved downwardly relative to said cap, said cap engaging element pivoting upwardly and outwardly relative to said bottle as said edge of the cap is flared outwardly so that said cap engaging element is prevented from applying a chipping force to said bead of the bottle while maintaining its engagement beneath the edge of the cap so as to remove the cap from the bottle, said plate having a recess therein in alignment with the space between said lugs, and an extension on the inner end of said cap engaging element extending into said recess and adapted to contact the upper wall of said recess to limit the swinging of said element in a downward direction toward said projection to maintain said cap engaging claw spaced laterally and longitudinally from said projection a distance which will automatically cause engagement of the projection with the central portion when the claw element is engaged beneath the edge of the cap whereby manual manipulation of said cap engaging element is avoided.

2,667,094
INSULATION STRIPPING TOOL FOR ELECTRIC CONDUCTORS
Denton A. Potter, Santa Monica, Calif.
Application April 8, 1950, Serial No. 154,834
7 Claims. (Cl. 81—9.5)



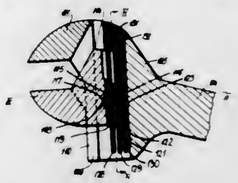
1. A tool for removing insulation from electric conductors, comprising in combination: an elongate body having an axial bore and a concentric cylindrical portion of reduced diameter adjacent the forward end thereof, said reduced diameter portion being longitudinally slotted to permit resiliently yielding contraction thereof; a tubular member carried on said reduced diameter portion, said tubular member having a relatively close fit on said reduced diameter portion for frictionally resisted rotation thereon, said tubular member having an ovoid flange on the forward end thereof disposed to form a pair of diametrically opposed symmetrical cam lobes on said tubular member; a pair of flat, resilient jaws secured against opposite sides of said body and extending longitudinally beyond the forward end of said body, said jaws having the forward ends thereof bent inwardly and sharpened to form opposed, transversely oriented cutting edges symmetrically disposed about the axis of said body and said jaws being stressed to normally diverge slightly to space said cutting edges; a sleeve slidably carried on said body and relatively closely embracing said jaws whereby forward movement of said sleeve forces said jaws together against said cam lobes to press said cutting edges to a predetermined depth into insulation of an electric conductor partially inserted into said bore; and a stop member in said bore frictionally engaged with the wall thereof, said stop member being slidable longitudinally in said bore to adjustably limit the length of conductor inserted into said bore.

2,667,095
TUBULAR CLEAT WRENCH WITH CIRCUMFERENTIALLY SPACED GRIPPING TEETH
Clyde C. Manchester, Stryker, Ohio
Application June 27, 1951, Serial No. 233,837
2 Claims. (Cl. 81—90)



1. A wrench for shoe cleats of truncated cone shape, comprising a tubular sheet metal handle of a diameter greater than the minimum diameter of the cleat, one end of the handle having an inwardly directed annular flange adapted to engage the tapered wall of the cleat intermediate its ends, said flange having a sharp hard point adapted to be embedded slightly in the cleat and to impart rotational effort thereto when the handle is turned about its axis.

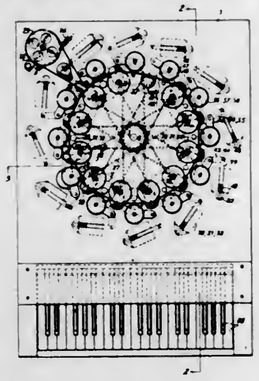
2,667,096
FRICTION TYPE WEDGE-LOCK MEANS FOR SLIDABLE SIDE JAW WRENCHES
Emil Rasmus Anskjaer, Copenhagen, Svend Peter Lauritz Nielsen, Frederiksberg, and Svend Erik Bjerregaard Svendsen, Copenhagen, Denmark
Application January 12, 1952, Serial No. 266,154
8 Claims. (Cl. 81—151)



1. A slidable side jaw wrench with friction type wedgelock means, comprising a main body having a handle portion and a fixed jaw, and adjacent the fixed jaw two interspaced walls extending at a right angle to the clamping face of said fixed jaw and each at their edges near the fixed jaw provided with an inwardly projecting web, said webs extending at a right angle in relation to the clamping face of the fixed jaw to provide rearwardly facing guiding shoulders, and which walls remote from the fixed jaw are interconnected by means of a main body portion constituting a friction surface disposed at a right angle to the clamping face of the fixed jaw and opposing said shoulders, and which walls enclose a cavity, which is defined by the interior surfaces

of said walls, the shoulders and the said friction surface and is open at the jaw side through a slot defined by said webs, a movable jaw disposed in front of the webs and integral with a guide portion extending rearwardly through said slot and provided with lateral projections engaging said shoulders; a pressure member disposed in the cavity behind said guide portion, wedging means interconnecting said guide portion and said pressure member; interspaced fixed clamping members nonslidably connected to the main body and disposed in the cavity between the pressure member and the friction surface of the cavity, movable clamping members interposed between said fixed clamping members and provided with friction surfaces extending at a right angle to the clamping surface of the fixed jaw and engaging friction surfaces of the fixed clamping members, the said movable clamping members being nonslidably connected to the movable jaw, coacting friction surfaces on the foremost fixed clamping member and the pressure member, and a movable clamping member nonslidably connected to the movable jaw interposed between the rearmost fixed clamping member and friction surface of the cavity.

2,667,097
MAGNETOPHONIC MUSICAL APPARATUS
Pierre H. Schaeffer, Paris, France
Application February 7, 1952, Serial No. 270,319
3 Claims. (Cl. 84—1.28)



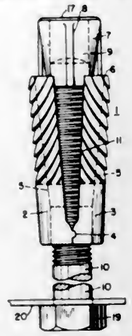
1. A magnetophonic musical apparatus comprising a frame, a plurality of vertical shafts mounted in said frame at the apices of a regular polygon within said frame, a motor with a plurality of speeds driving said shafts at the same angular speed, a plurality of driving rollers mounted integrally with and superposed on said shafts at different horizontal levels, each of the driving rollers mounted on one shaft having the same diameter and the driving rollers mounted on different shafts having different diameters, a plurality of looped magnetophonic tapes which are equal in number to the number of rollers superposed on the shafts, non-driven guide pulleys located at the same horizontal levels as the driving rollers and arranged for causing said tapes to travel in front of all the driving rollers of a horizontal level without leaning against said rollers, pick-up heads associated with each tape, audio means and controlling means of said audio means connected with said heads, a plurality of removable coupling rollers associated respectively with the driving rollers and each adapted to bring a magnetophonic tape to frictionall lean against the associated driving roller and to be trained by said driving roller, a piano-like depressible key for each coupling roller for moving said roller into frictional leaning with the associated driving roller and for operating the controlling means of the audio means whereby the speed of one tape is controlled according to the peripheral speed of the driving roller against which the coupling roller associated with the depressed piano-like key is brought to lean and whereby the audio means reproduces the musical sound recorded on said tape.

2,667,098
HEAD FOR MUSICAL INSTRUMENTS
Rafry L. McMullen, Spokane, Wash.
Application June 12, 1951, Serial No. 231,233
5 Claims. (Cl. 84—414)



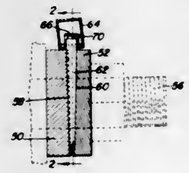
1. A head for musical instruments such as drums and tambourines comprising a sheet of fabric woven from yarn composed of an acrylonitrile polymer which sheet is impregnated with a medium oil length, drying alkyd resin and stretched on a hoop, the stretched impregnated sheet having an unstretched surface layer of said alkyd resin on both sides thereof.

2,667,099
EXPANSION ANCHOR SPRING BIASED APART AT ENTERING END
Warren J. Lewis, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application December 19, 1950, Serial No. 201,651
7 Claims. (Cl. 85—2.4)



5. An expander bolt which includes a stud with an expander threaded on its upper end, a hollow shell formed of two separate sections with the expander originally disposed adjacent the upper ends thereof, a separately formed yoke-shaped spring with its bight spaced longitudinally from the upper end of the shell and engageable by either an end of the expander or the upper end of the stud, a portion of the side arms of the yoke-shaped spring being substantially coextensive with the shell sections, oppositely disposed means extending longitudinally along each shell section to receive the said coextensive portion of the side arms of the yoke-shaped spring, the upper ends of the shell sections being tapered thinner than the lower ends thereof, the lower end of each shell section encircling substantially one-half of the stud, each shell section being secured to one of the side arms of the spring yoke at the lower end of the shell thereby forcing the lower ends of the sections inwardly toward the stud and simultaneously forcing the upper ends of the sections radially outward away from the stud so that the normal outer periphery of the upper end of the shell is greater than the normal outside periphery of its lower end, the upper ends of the shell sections being adapted to be moved inwardly toward the stud against the tension of the yoke-shaped spring to reduce the periphery of the shell sufficiently to enter a prepared opening for the bolt.

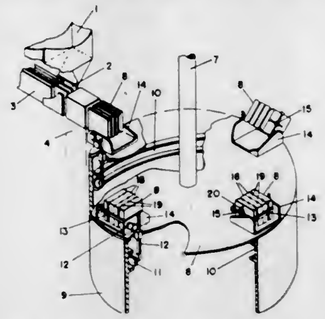
2,667,100
TRACK BOLT TIGHTENER
Dan C. Nichols, Houston, Tex., assignor of one-third to Ralph L. Moss and one-third to R. H. Russell, both of Johnson City, Tenn.
Application November 2, 1950, Serial No. 193,589
2 Claims. (Cl. 85—50)



1. For use with track bolts that secure rail bars upon a track rail, a self tightening lock washer comprising a pair of juxtapositioned plates having central registering openings for receiving a bolt, said plates including inner vertical faces, the inner face of each plate having a pair of elongated tapered vertical grooves therein, the grooves in one plate being in registry with the grooves in the other plate, a wedge pin received in each registering pair of grooves, an elongated housing member fixed to the upper edge of one of said plates and overlying both pins, an elongated spring in the member engaging both pins, and a partition in the member engaging the central portion of the spring to flex the latter.

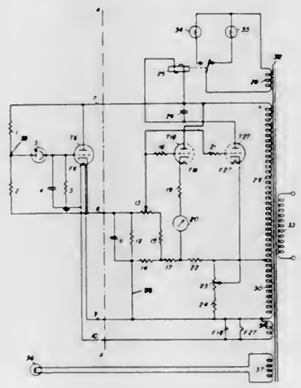
2,667,101
APPARATUS ADAPTED FOR RECEIVING AND EVENTUALLY DISCHARGING CYLINDRICAL WRAPPERS
Donald G. Ashcroft, Saltcoats, and Thomas Pitcairn, West Kilbride, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
Application June 5, 1950, Serial No. 166,166
Claims priority, application Great Britain July 15, 1949
3 Claims. (Cl. 86—46)

1. Apparatus for receiving, successively positioning at intermediate locations, and subsequently discharging cylindrical wrappers comprising: a fixed spreader box having a plurality of substantially horizontal passages therethrough; a horizontal table adjacent said box mounted for intermittent rotation about a vertical axis; a plurality of shuttles mounted for rotation about individual horizontal axes on said table and equally spaced along the periphery thereof for successive alignment with said spreader box to receive cylindrical wrappers therefrom, each of said shuttles comprising separable laminated leaves grooved at their meeting faces to form therebetween a plurality of spaced compartments having one closed end and corresponding to the passages in said spreader box; means operable by rotational movements of each shuttle about its said horizontal axis for separating and contracting the leaves thereof to widen and narrow said compartments; and means operable by the rotational movement of said table and connected to each said shuttle for rotating the latter about its said horizontal axis to position said compartments horizontally for receiving the



cylindrical wrappers when said shuttle is aligned with said spreader box, to position said compartments vertically with their open ends upwards and said leaves contracted for diverse operations on the wrappers at one or more intermediate locations of said shuttles, and to position said compartments in an inclined position with their open ends downward and said leaves separated for discharging the wrappers at a final location of said shuttles.

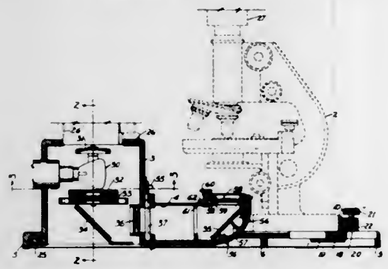
2,667,102
PHOTOELECTRIC APPARATUS
Donald J. MacDougall, Framingham, Mass., assignor to Combustion Control Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 30, 1951, Serial No. 234,494
3 Claims. (Cl. 88—14)



1. Light responsive apparatus comprising a gas photoelectric cell, a load network connected to said photoelectric cell, a power supply source connected to said photoelectric cell through said load network, and a cathode follower amplifier including a cathode load, said load network being connected to the input of said cathode follower amplifier whereby a signal is developed across said cathode load which is proportional to the voltage drop across said load network,

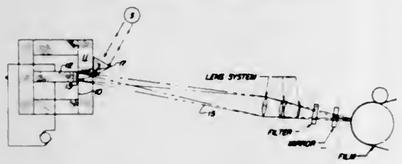
said cathode load being connected to said power supply source whereby the potential applied to the combination comprising said photoelectric cell and said load network varies proportionally to the potential developed across said load network in response to light energy impinging upon said photoelectric cell.

2,667,103
ILLUMINATING MEANS FOR MICROSCOPES
Martin Silge, Oakland, Calif.
Application July 5, 1949, Serial No. 103,121
2 Claims. (Cl. 88—40)



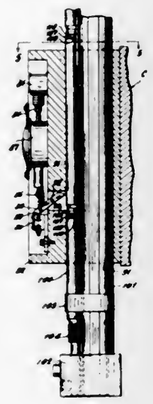
1. In a combination of the character described, a flat base, a straight tubular housing rising therefrom and having an opening in the wall thereof adjacent the base, a lamp mounted in the housing, a light channel projecting sidewise from said opening and having a light opening spaced from the housing and presented upwardly, an optical system in the housing and the channel for directing rays of light emanating from the lamp upwardly through the light opening in the channel, the base having a slot outside of and in alinement with the channel, and means for mounting a microscope having a heel and a pair of spaced toes adapted to straddle the channel on said base, comprising a pair of screws threaded into the base on opposite sides of the channel substantially at its connection with the column, a pair of slotted members swingable and slidable on said screws and fastenable thereby in adjusted position, a pair of corner pieces swingable on the slotted members and securable thereto in adjusted position and operable to abut against the toes for anchoring the same, and a block slidable in the slot and operable to engage against the heel of the microscope and having means for locking the same in adjusted position.

2,667,104
LIGHT VALVE
Willard E. Buck, Los Alamos, N. Mex., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application December 13, 1950, Serial No. 200,602
2 Claims. (Cl. 88—61)



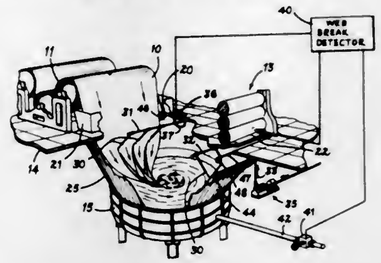
1. A piezoelectro voltmeter comprising in combination, an interference fringe component, a light source and a converging lens system, said interference fringe component comprising a transparent plate having a partially reflecting surface and the chamfered partially reflecting end of an elongated piezoelectric rod, said piezoelectric rod being supported at the end remote from the chamfered end and with the median line of its elongation normal to the surface of said plate and with the chamfered end proximate the adjacent surface of said plate, means for projecting monochromatic light approximately normal to the plate surfaces onto the chamfered end of the piezoelectric crystal, means for impressing an electric voltage potential to be measured upon said piezoelectric crystal, and means for supporting the converging lens system in the path of the light reflected from the interference fringe component, whereby the light reflected from said interference fringe component is focussed to a minute plane area and shifts in proportion to the amplitude of said electric voltage impressed on said piezoelectric crystal thus permitting a calibrated visual observation of the impressed voltage and variations thereof.

2,667,105
COMBINED HORIZONTAL BORING, DRILLING, AND MILLING MACHINE
Hallis N. Stephan, Cleveland Heights, Ohio, assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application April 21, 1950, Serial No. 157,269
6 Claims. (Cl. 90—16)



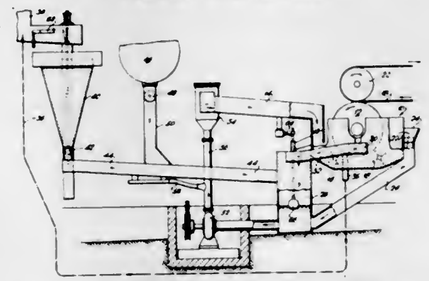
1. In combination with a machine or the like having a supporting member, a member movably supported upon said supporting member and power means for moving said last-named member relative to said supporting member, of electric switch means for controlling the operation of said power means, a rod-like gauge member having signal means thereon, signal detection means responsive to said signal means when in predetermined position relative thereto for effecting the operation of said switch means to stop said supported member in a predetermined position relative to said supporting member, means adapted to receive rod-type end measuring gauges for detachably connecting said gauge member to one of said first two mentioned members, and means for connecting said signal detection means to the other of said first two mentioned members.

2,667,106
PAPER MACHINERY
Howard D. Hyman, Ottawa, Ontario, Canada, and Edward M. Root, Decatur, Ga., assignors to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application September 13, 1951, Serial No. 246,412
8 Claims. (Cl. 92—20)



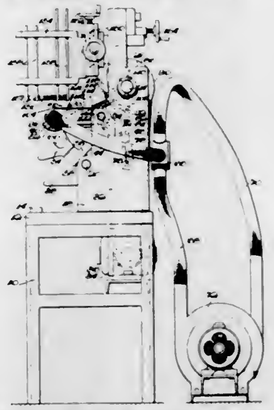
4. Apparatus for use in handling and pulping a web of relatively wide and tough broke from a paper machine in combination with pulping apparatus, comprising means supporting said pulping apparatus below a location on said paper machine where such web of broke is adapted to accumulate, means forming a chute positioned to receive said web of broke accumulating in said location and to transmit said web continuously to said pulping apparatus, a plurality of jet nozzles supported adjacent the upper end of said chute in horizontally spaced relation for discharge towards said chute, means for directing said wide web of broke between said nozzles and the adjacent wall of said chute, means for supplying water under high pressure to said nozzles for discharge against said wide web of sufficient mass and velocity to slit the same generally lengthwise thereof into a plurality of relatively narrow webs and simultaneously to facilitate downward travel of said narrow webs to said pulping apparatus, and said chute having a relieved portion therein opposite each said nozzle to provide an unsupported portion of said web opposite each said nozzle for receiving the discharge therefrom.

2,667,107
METHOD FOR MANUFACTURE OF FIBER-CEMENT SHEET LAMINATES
Jack E. Hesse, Gretna, La., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application August 2, 1950, Serial No. 177,147
7 Claims. (Cl. 92—38)



5. In the method for manufacturing felted fiber-cement laminates including the step of continuously forming a thin felt by rotating foraminous cylinder mold filtration from a dilute aqueous suspension pond containing fibers and cement, with separation of white water filtrate, the improvement which comprises, maintaining uniform distribution and consistency of stock by continuously feeding fresh stock to one side of the pond at a rate to develop and maintain continuous overflow from the opposite side of the pond, recycling said pond overflow, and maintaining the volume rate of overflow and recycling high enough to limit the average period of hydration of the cement to a maximum of ten minutes.

2,667,108
BAND FORMING MACHINE AND PROCESS
Frank E. Monks, Pittsburgh, Pa., assignor to Fuller Label & Box Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 8, 1948, Serial No. 53,557
16 Claims. (Cl. 93—79)

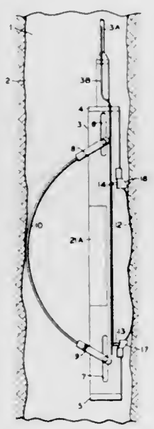


3. In a machine for forming bands from flat blanks of flexible sheet material, the combination of means for supporting a stack of blanks, a tubular mandrel having an apertured wall, a hollow picker valve movable into position to seat the mandrel within said valve with the outermost portion of the mandrel surface substantially aligned with the outer surface of the valve, the apertures in said mandrel wall communicating with the interior of said valve, means for moving said valve and the mandrel while in seated position therein into proximity with an outermost blank of said stack, means for creating a suction in said mandrel transmitted to said valve whereby withdrawal of the mandrel and valve withdraws said outermost blank from said stack with spaced portions of said blank engaging the mandrel and valve respectively, means for terminating the suction in said valve and then withdrawing said valve from said mandrel whereby continued suction through the mandrel wraps the blank thereabout, and means for heat sealing the overlapping margins of said blank in wrapped position to form a band.

2,667,109
CAMERA ASSEMBLY FOR PHOTOGRAPHING CAVITY WALLS
Raymond G. Piety, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 9, 1950, Serial No. 189,185
8 Claims. (Cl. 95—11)

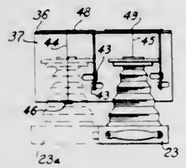
8. A camera assembly comprising, in combination, a container having a portion of its wall re-

placed by a transparent flexible diaphragm, means for extending said diaphragm against an adjacent wall of a cavity to be photographed, a photographic film mounted inside said container, an optical system movable with respect to said film and adapted to transmit an image of said wall to said film, a light source movable longitudinally with respect to said film, means for



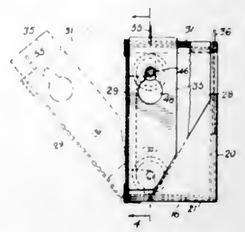
moving and positioning said optical system along said film while said camera assembly is in said cavity, and means for biasing the diaphragm containing wall of said container against the wall of said cavity so that said diaphragm can be extended into contact with said wall to exclude any opaque fluid from the space between said optical system and said wall.

2,667,110
CAMERA AND FILTER SUPPORT FOR STEREOSCOPIC PHOTOGRAPHY
John Sheldon Youtcheff, Santa Monica, Calif.
Application July 19, 1951, Serial No. 237,547
1 Claim. (Cl. 95—11)



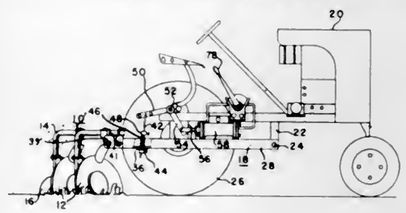
An adaptor for cameras by means of which a camera may be used to take stereoscopic pictures on colored film, said adaptor having a flat base for mounting on a support, a wall member at the front edge of the support at right angles thereto, said wall member having a pair of apertures therein, the centers of which are spaced an interocular distance, said apertures being provided with filters of contrasting colors, means on said base for lining up the axis of the camera with said filters, and spaced guide walls extending rearwardly from the wall containing said filters, said guide walls being spaced an interocular distance and serving to locate the camera when focused through one filter an interocular distance away from the center of the other filter.

2,667,111
FOLDED CARDBOARD CAMERA WITH WINDING KNOB RETAINING MEANS
Jacob Fried, Bronx, N. Y.
Application August 3, 1951, Serial No. 240,190
2 Claims. (Cl. 95—31)



1. A camera formed of one piece of material foldable upon itself to form bottom, top and side walls and a back section, a portion of said material defining film holding means within the body of said camera, an opening in the side wall of said camera aligned with one of said film holding means, an opening in the back section aligned with said first mentioned opening, a sliding member having a key-hole opening so positioned that when moved in one direction the larger portion of said key-hole opening coincides with the first two mentioned openings, a film operating member having a recessed portion extending through all three openings and locked in place when the sliding member is moved so that the smaller portion of said key-hole opening is in a line with the first two mentioned openings and engaging said recessed portion of the film operating member so that the side wall and the back section are locked in place.

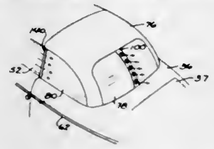
2,667,112
LIFT FRAME FOR AGRICULTURAL IMPLEMENTS
Fletcher B. Carney, Mountain Brook, Ala.
Application July 14, 1949, Serial No. 104,649
1 Claim. (Cl. 97—47.63)



In combination, a tractor of the type having a raised rear axle, depending brackets from the middle region of the frame of said tractor, a pivot shaft mounted between said brackets, the ends of said shaft projecting beyond said brackets, a rectangular implement supporting frame extending beneath said tractor having one end pivotally mounted on said pivot shaft and the other end projecting beyond the end of said tractor, said supporting frame comprising a pair of laterally spaced longitudinally extending beams, a tubular element affixed to the front end of each beam and extending inwardly therefrom, said elements defining a single transverse pivot axis and receiving the projecting ends of said pivot shaft, a first transverse bar extending between and rigidly fastened to said beams immediately rearwardly of said elements, reinforcing

gusset plates secured to said transverse bar, beams, and tubular elements, a second transverse bar extending between and rigidly secured to said beams adjacent the rear ends thereof, said second transverse bar having slots adjacent each end thereof, a transverse bracket member interconnecting the ends of said beams, lifting mechanism for said frame comprising a transverse shaft mounted on the rear of the frame of said tractor, double acting hydraulic lift means, a bellcrank lever pivotally mounted on said transverse shaft and one end connected to said lift means whereby said lever is actuated by said lift means, lift rods extending from the other end of said bellcrank through said slots in said second transverse bar, collars affixed to said lift rods immediately beneath said second transverse bar, compression springs on said lift rods immediately above said second transverse bar, collars affixed on said lift rods immediately above said springs, a trailing implement on said tractor having forwardly extending draft portions, said potrions being connected to said transverse bracket on said frame whereby said trailing implement is coplanar with said frame, said frame being substantially horizontal when said implement is in working position.

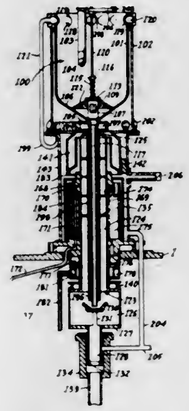
2,667,113
VENTILATION SYSTEM FOR VEHICLE BODIES
John W. J. Ackermans, Detroit, Mich.
Original application January 18, 1947, Serial No. 722,859. Divided and this application July 3, 1950, Serial No. 171,819
5 Claims. (Cl. 98—2)



1. In a closed vehicle body having a front seat, two sides each including a front side window and a rear side window, said front and rear side windows having their adjacent vertically extending edges overlapping each other and disposed behind said front seat, the rear side window being offset outwardly to have its front edge disposed outwardly from the adjacent rear edge of the front side window to form an air-scooping slit extending through substantially the entire height of said windows and adapted when the vehicle is in motion to entrap the inrushing air and to produce a vertically extending sheet of air moving within the body in the rearward direction along the inner surface of the rear side window, and shutter means including an elongated member of rubber-like material operatively arranged along said air-scooping slit, said shutter means being operable from within said body to close and to open said air-scooping slit.

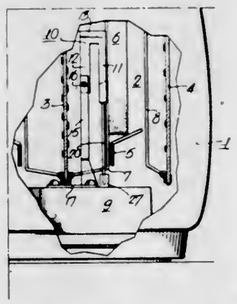
2,667,114
COFFEE MAKER
Louis Burgess, Jersey City, N. J.
Original application July 12, 1947, Serial No. 760,599. Divided and this application October 28, 1949, Serial No. 124,065
1 Claim. (Cl. 99—287)

In a coffee maker including a centrifuge of the imperforate overflow self-dumping type, a cone bottom receptacle adapted to hold a mixture of ground roasted coffee and hot water, a rundown tube extending from the center of said cone bottom into the lower end of said centrifuge, a valve adjacent the center of said cone bottom controlling flow out of said receptacle through said tube, a dispenser surmounting said receptacle adapted to deliver a predetermined charge of ground roasted coffee, a non-pressure tank, means for heating water contained in said tank, an orifice discharging downwardly into said receptacle, means for supplying hot water from said tank to said orifice, a timer adapted in succession to (*a*) close said valve; (*b*) start flow of



water through said orifice; (c) at an interval after starting said flow discharge a predetermined amount of ground roasted coffee from said dispenser into said receptacle; (*d*) stop flow through said orifice, said orifice being so oriented that the vertical plane which bisects the same is non-central with respect to said receptacle and tangent to a cylinder of lesser radius than said receptacle whereby the stream from said orifice imparts a rotational movement to liquid in said receptacle while simultaneously beating into said liquid any ground coffee floating on the surface thereof.

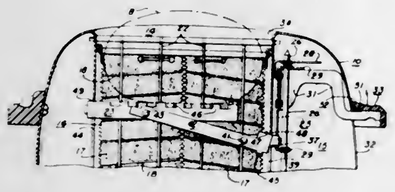
2,667,115
TOASTER
Walter H. Vogelsberg, Wayne, Pa., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 7, 1948, Serial No. 48,111
3 Claims. (Cl. 99—331)



1. In a bread toaster, means for supporting a bread slice in position to be toasted, heating means in spaced relation to the bread position

to toast the bread slice, a substantially U-shaped bimetal thermostat interposed between said heating means and the bread position, said thermostat being arranged in perpendicular relation to the plane of the adjacent bread surface so that the legs of the thermostat flex substantially parallel to said plane, the leg nearer the bread slice being the primary thermomotive means responsive primarily to the bread surface temperature, the leg farther from the bread slice being the compensating thermomotive means responsive primarily to extraneous heats, rigid support means to which the end of the compensating leg is secured to support the thermostat, the end of the primary leg being free to move, means operable to terminate a toasting interval, and an actuating element fixedly secured to and extending from the end of said primary leg to actuate said terminating means.

2,667,116
TOASTER APPARATUS
Bernard F. Parr, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 3, 1950, Serial No. 142,331
4 Claims. (Cl. 99—391)



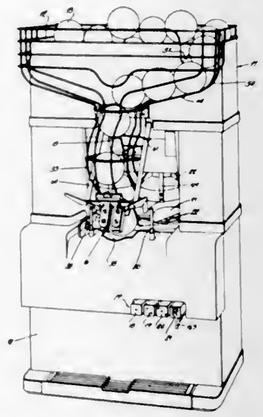
1. In a toaster, the combination of a shell having a pair of spaced partitions arranged therewithin for defining a toasting chamber and an apparatus compartment within the shell, said shell having an opening in the upper side thereof for the passage of a bread slice to and from the oven, a carriage, means supporting the carriage within said compartment and providing for upward and downward movement of the carriage, a handle construction extending through the shell and movable downwardly for actuating the carriage from an upper slice receiving position to a lower toasting position, means for returning the carriage to its upper slice receiving position at the conclusion of the toasting operation, a slice carrier disposed within said oven, one of said partitions having an elongated slot formed therein, an arm carried by said carriage and extending through said slot, a link pivoted at one end to said carrier and at its opposite end to said arm, means for retaining said carrier in a generally horizontal position during movement of the carriage between its upper and lower positions, said carriage being additionally movable by said handle upwardly from the upper slice receiving position thereof to a third position, and a pair of stops carried by said partitions for respectively engaging said link and carrier during said additional upward movement of the carriage, the construction and arrangement being such that the carrier is elevated during said additional upward movement of the carriage for facilitating the removal of relatively small slices from the carrier.

2,667,117
ADJUSTABLE COLANDER FOR COOKING AND SERVING VEGETABLES AND THE LIKE
Everett M. Millard, Glendale, Allan L. Turner, San Fernando, Henry M. Kurz, Burbank, and Marjorie L. Dockery, Sun Valley, Calif.; said Turner, said Kurz, and said Dockery assignors to said Millard
Application June 2, 1950, Serial No. 165,646
6 Claims. (Cl. 99—418)



4. An adjustable colander comprising in combination: a circular dish-shaped foraminous bottom member having a flat flange-like rim with a plurality of slots formed therein adjacent the periphery thereof, said slots being perpendicular to radii of said bottom member; a plurality of foraminous trapezoidal leaves arranged circumferentially around said rim and having the upper portions thereof curved in a horizontal and in a vertical plane whereby to form bowl-like sides for said container, having a substantially vertical top rim portion; a downwardly extending tab on each of said leaves, each of said tabs being received in one of said slots; lateral shoulders formed in each of said leaves at opposite ends of said tab, said shoulders resting on the upper surface of said rim to support said leaf for rocking movement thereof about a transverse line drawn between said shoulders; and tongue and slot connections between said rim and each of said leaves to hold said tab in said first-mentioned slot said tongue and slot engaging only along said line whereby to permit said rocking movement without substantial sliding friction between said leaves and flange respectively.

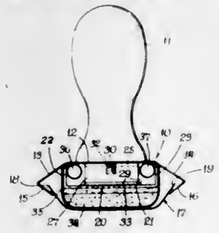
2,667,118
FRUIT JUICER
Talbert G. Nelson, New York, N. Y.
Application August 24, 1946, Serial No. 692,800
43 Claims. (Cl. 100—97)



1. A machine comprising a bin, a cradle support adapted to form a continuation of the bottom of the bin at one end thereof and to receive and hold lump articles therefrom, means to move

lump articles in the bin onto the support, means to elevate the support and its contents above the level of the articles in the bin, and means movable with the support to hold back the articles in the bin from the path of the support in the bin when the support is elevated, said last-named means consisting of a plurality of rollers having the axes thereof parallel to each other and substantially perpendicular to the direction of movement of said support.

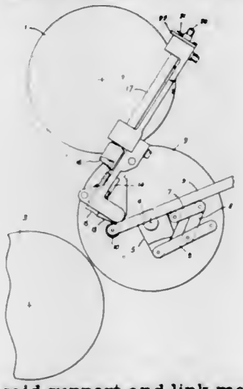
2,667,119
HAND STAMPING STENCIL HOLDER
James R. Thomas, Deerfield, Ill., assignor to Joseph A. Weber, Mount Prospect, Ill.
Application April 28, 1952, Serial No. 284,779
3 Claims. (Cl. 101—125)



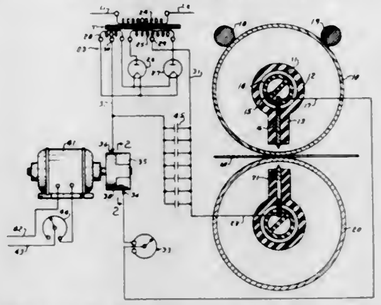
1. A hand stamping stencil holder comprising a frame, a handle mounted on said frame, spaced apart parallel flange means formed on said frame for loosely engaging the side edges of a stencil, and an inked pressure pad means carried on said frame between said spaced apart flange means whereby when the stencil holder is pressed against a surface the inked pressure pad causes an imprinting of the material on the loosely held stencil, said inked pressure pad means includes a perforate metal channel member opening upwardly within said frame, a strip of metal narrower than said channel member and positioned centrally therein and fixedly fastened thereto, said strip of metal defining longitudinally extending spaces along the marginal edges thereof to the channel member sides, means on said handle engaging and holding together the frame and the channel member, yieldable ink holding means positioned on the underside of said channel, means holding said yieldable means to said channel, said last named means including a generally rectangular piece of cloth having a rod journally carried in opposed parallel edges thereof, said piece of cloth surrounding said yieldable ink holding means and extending upwardly over the sides of said channel and the rod edges of said piece of cloth disposed within said longitudinally extending spaces, whereby when said handle is in frame and channel holding position the cloth piece is similarly locked in position and when the handle is removed the cloth piece may be removed.

2,667,120
CYLINDER INTERRUPTER FOR OFFSET LITHOGRAPHIC PRINTING MACHINES
Carl Gustave King, Kenton, England, assignor to Kaye's Rotaprint Agency Limited, London, England, a British company
Application June 27, 1952, Serial No. 296,006
Claims priority, application Great Britain July 16, 1951
8 Claims. (Cl. 101—218)

1. An offset printing machine including a form and an impression cylinder having fixed axes of rotation, a blanket cylinder, a shaft on which said blanket cylinder is freely rotatable, an eccentric portion at each end of said shaft, bearing members fixed on said machine for said eccentric shaft portions, a support attached to said eccentric shaft portions, link means pivoted to said support, a fixed abutment secured to said machine, an adjustable abutment mounted on the machine adjacent to said fixed abutment, a device on said link means engageable with said fixed and adjustable abutments, means for manually rotating said support and link means to position said device for engagement with said fixed abutment and means operable on the rotation of the blanket cylinder to further rotate the said support and link means to cause the said device to ride along the fixed abutment on to said adjustable abutment, the consequent rotation of the link means effecting a corresponding rotation of the eccentric shaft portions to cause the blanket cylinder to be moved into engagement with the form and impression cylinders.



2,667,121
PRINTING METHOD AND APPARATUS
William Carl Huebner, Mamaroneck, N. Y., assignor to The Huebner Company, Dayton, Ohio, a corporation of Ohio
Application October 4, 1949, Serial No. 119,410
6 Claims. (Cl. 101—219)



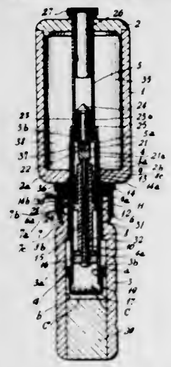
1. The method of printing comprising providing a printing element having an image thereon which is to be reproduced, providing a film of the printing liquid upon said image, creating a high potential unidirectional cyclically pulsating electrostatic field of force extending through said image at a printing zone, and bringing the material which is to receive said image closely adjacent said element in said pulsating field of force at the printing zone so that the electrostatic charges of the field of force effect transfer of the liquid on said image to said material thereby reproducing the image on the material.

2,667,122
OIL WELL TORPEDO
Lawton Arthur Burrows, Mendenhall, Pa., and Melvin Alonzo Cook, Salt Lake City, Utah, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 21, 1949, Serial No. 94,654
2 Claims. (Cl. 102—21.6)



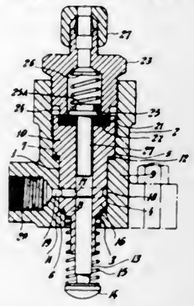
1. An oil well torpedo of reduced sensitivity comprising a container adapted to hold a liquid explosive charge, means associated with said container for lowering the same into the oil well, means on said container for attaching another container below the first container in the well, and in said first container, a liquid explosive charge comprising from 50 to 80% by weight of nitroglycerin and dissolved therein a blend of dinitrotoluene and trinitrotoluene in a ratio between 1 to 1 and 4 to 1.

2,667,123
SAFETY RELEASE DEVICE FOR MECHANISMS
Rodolfo B. Giorgi, Ernesto Klein, Federico Unkel, and Alberto J. Giorgi, Buenos Aires, Argentina
Application April 10, 1951, Serial No. 220,242
11 Claims. (Cl. 102—65.4)



7. A safety device for hand grenades having a casing, a firing pin in said casing and a hollow handle movable with respect to the casing, said device comprising a tubular member slidably arranged in the hollow handle and having a closed end, a plunger slidably movable in said tubular member between two end positions and defining a first chamber with said closed end of said tubular member, said first chamber having a small hole arranged in the wall of said closed end of said tubular member, a second chamber arranged in the handle and communicating with said first chamber through said hole, the relative size of said chambers depending on the positions of said tubular member in the handle and said plunger in said tubular member, a substance consisting of small particles and arranged in said chambers and adapted to retard the change of the relative size of said chambers in response to the flow of said substance through said hole, a protective member for the firing pin, a recess in said protective member for engagement with said plunger in one of its end positions, a cavity in said protective member, a trigger connected to the firing pin and having a slot, and an expansion washer adapted to hold said slot of said trigger when said washer is confined in said cavity of said protective member.

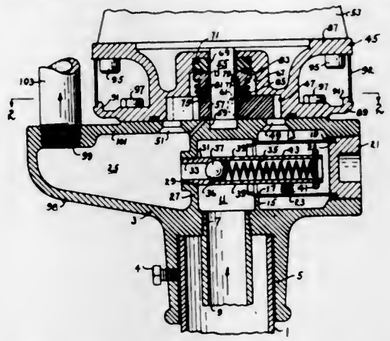
2,667,124
PUMP
Camille Clare Sprankling Le Clair, London, England, assignor to Tecalemit Limited, Brentford, England, a corporation of Great Britain
Application May 10, 1947, Serial No. 747,294
Claims priority, application Great Britain May 28, 1946
12 Claims. (Cl. 103—37)



1. A reciprocating plunger type pump comprising in combination means forming a cylinder, a plunger slidable in said cylinder, an inlet port for said cylinder adapted to be opened and closed by said plunger, an outlet port from said cylinder, a discharge valve seat formed with said outlet port, a non-return discharge valve having a valve head associated with said valve seat and adapted to open and close said outlet port, said discharge valve having a stem slidable in said cylinder and forming in said cylinder a discharge passage of small dimensions connected to said outlet port so that the clearance volume in said cylinder may be kept at a minimum, and means associated with said valve seat adapted to adjust the volume of fluid delivered by the pump per discharge stroke of said plunger, without adjusting the position of said plunger relative to said inlet port, without varying the stroke of said plunger and without varying said clearness volume, by adjusting the position of said discharge valve seat relative to said inlet port so that the total volume of fluid enclosed within said cylinder at the closing of said inlet port is varied.

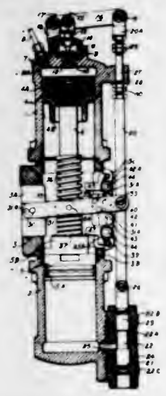
2,667,125
PUMP
Burdette W. Foss, Fort Wayne, and Scott L. Hunter, Ossian, Ind., assignors to Ossian Engineering Co., Inc., Ossian, Ind.
Application April 9, 1949, Serial No. 86,566
8 Claims. (Cl. 103—42)

1. In a liquid dispenser, a manifold body having a suction opening, a suction chamber communicating therewith, a screen chamber adjacent thereto, a port connecting said chambers, an opening in said screen chamber in alignment



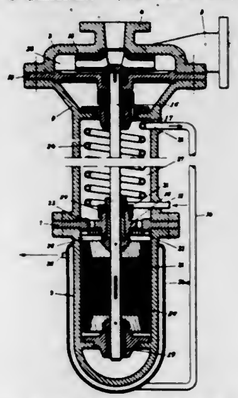
with said port, a plug for said opening, a cylindrical screen mounted thereon and extending through said port and in sealing relation therewith.

2,667,126
LUBRICANT PUMP
Camille Clare Sprankling Le Clair, London, England, assignor to Tecalemit Limited, Brentford, England, a corporation of Great Britain
Application April 28, 1948, Serial No. 23,736
Claims priority, application Great Britain May 21, 1947
11 Claims. (Cl. 103—50)



1. In a lubricant distribution apparatus, at least one lubricant displacement unit comprising in combination a lubricant chamber adapted to be supplied with lubricant under pressure, said chamber having an inlet adapted to be connected to a source of lubricant under pressure and a lubricant outlet adapted to be connected to a place of use, a displacement member movable in said chamber, an operating chamber adapted to be supplied with operating fluid under pressure said operating chamber having an inlet adapted to be connected to a source of operating fluid under pressure and an outlet for the operating fluid, a displacement member movable in said operating chamber, means interconnecting said displacement members for movement in unison, a valve including a movable valve member for controlling the ingress of lubricant to and the discharge of lubricant from said lubricant chamber, a normally closed valve for controlling the discharge of operating fluid through said operating chamber outlet, and an automatically acting linkage mechanism operatively connected to said displacement members to be actuated thereby, said linkage mechanism including a member positioned to engage and open said valve controlling the discharge of operating fluid through said operating chamber outlet, and means connected to said valve member of said valve controlling the ingress of lubricant to and the discharge of lubricant from said lubricant chamber so as to operate said valves substantially simultaneously to close said operating chamber outlet, to open said lubricant chamber outlet, and to close said lubricant chamber inlet so that said displacement members move in a first direction in unison under the pressure of the operating fluid to discharge lubricant from said lubricant chamber, and then to open said operating chamber outlet valve, to open said lubricant chamber inlet and to close said lubricant chamber outlet so that lubricant under pressure will be admitted to said lubricant chamber to move said displacement members in a second direction to discharge the operating fluid from said operating fluid chamber and to charge said lubricant chamber with lubricant.

2,667,127
MOTOR-DRIVEN PUMP
Walter Rimann, Winterthur, Switzerland, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland
Application July 17, 1947, Serial No. 761,671
Claims priority, application Switzerland July 20, 1946
8 Claims. (Cl. 103—87)

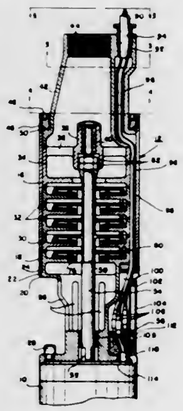


3. A pump unit for hot fluids, comprising a motor, a pump rotor disposed coaxially with and spaced from said motor, a shaft connecting said motor and said rotor, a bearing for said shaft disposed between said motor and rotor, a casing encasing said motor, said rotor, and space therebetween, cooling means disposed within said casing and between said motor and said rotor, and an annular, annularly corrugated diaphragm connected on its inside with said bearing and on its outside with said casing.

2,667,128
SUBMERSIBLE PUMP
Charles J. Bergh, Vandalia, Ohio, assignor to The Dayton Pump & Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application December 13, 1950, Serial No. 200,645
1 Claim. (Cl. 103—102)

In a submersible pump of the type described: a cylindrical casing, a discharge section in the

upper end of said casing and a suction section in the lower end of said casing, a plurality of pumping units in stacked relation in said casing between said sections, each said unit comprising a centrifugal impeller having an inlet opening in its lower wall and a circular flange projecting downwardly about said opening and an impeller housing comprising a single disk-like wall having a central aperture for receiving said projecting flange, and having a peripheral rib upstanding about the periphery of said impeller, a bearing ring between said flange and the wall of said aperture to journal said flange therein and to sustain radial thrusts on said impeller,



each impeller housing having arcuate vanes depending from its underneath surface and forming channel means with the back of the impeller next beneath for directing the fluid being pumped into the inlet of the associated impeller, the lower face of said impeller being parallel to and closely spaced from the upper face of the impeller housing next beneath, whereby a film of the pumped liquid is maintained therebetween by capillary action for cushioning and lubricating purposes, the upper face of said impeller being closely spaced from the lowermost surfaces of said vanes whereby a film of the pumped fluid is maintained therebetween by capillary action for purposes of lubrication.

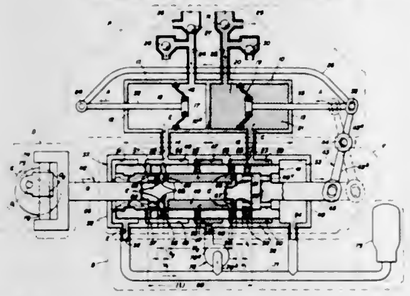
2,667,129

TWIN DIAPHRAGM PUMP WITH STRESS-RELIEVED DIAPHRAGMS

Frank L. Graner, Cold Spring, N. Y., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware

Application June 19, 1952, Serial No. 294,393

10 Claims. (Cl. 103—152)



1. A double-acting stress-relieved diaphragm pump having a pump housing structure provided with a pair of diaphragms each of which is confined in said housing structure between a body of hydraulic operating water and a body of slurry being pumped, with partition means provided between said bodies of slurry, said housing structure thus providing a hydraulic operating chamber at one side and outwardly from each respective diaphragm and a slurry pumping chamber at the other side of and inwardly from each respective diaphragm, each slurry pumping chamber having an inlet check valve and an outlet check valve, each hydraulic operating chamber being adapted to have pressure operating water controllably fed thereto and released therefrom as spent operating water for alternatingly producing pressure and suction in the respective slurry pumping chambers, control means for so feeding and releasing the operating water with respect to the hydraulic operating chambers, comprising a spool type valve unit having a cylindrical valve housing provided with a pair of internal recesses constituting a pair of transfer chambers spaced from each other longitudinally of the valve housing, each such transfer chamber having a two-way conduit connecting it with a respective operating chamber, said valve housing also having a third recess constituting a pressure water supply chamber disposed intermediate said transfer chambers and having supply conduit means for receiving said pressure water, said valve housing further having at each end thereof a spent water discharge chamber each of which has a discharge conduit, said valve unit further comprising a valve sleeve member axially reciprocable in said valve housing and adapted to close said recesses except for port openings provided in the sleeve member, a supply port opening being provided for said supply valve chamber, and a pair of transfer port openings being provided for each of said transfer valve chambers, the openings of each such pair of transfer port openings being spaced from each other and from the other pair in the longitudinal direction of the sleeve member so that each pair of transfer port openings comprises an outwardly and an inwardly disposed opening with the inwardly disposed openings located between the outwardly disposed openings, a spool valve member axially slidable reciprocatably within said valve sleeve member and adapted when so reciprocating to establish a flow passage through the inwardly disposed transfer port opening of the one of said pairs for pressure water to be admitted from and through the interior of the sleeve member and through the supply port opening to one hydraulic operating chamber while blanking the associated outwardly disposed transfer port opening and while unblanking the other pair of transfer port openings to establish flow passage therethrough for spent operating water from the other hydraulic operating chamber to the associated spent water discharge chamber, said spool member, vice versa, being adapted to establish flow passage through the inwardly disposed transfer opening of said second pair for pressure water to be admitted from and through the interior of the sleeve member and through the supply port opening to said other hydraulic operating chamber while blanking the associated outwardly disposed transfer port opening and while unblanking said one pair of transfer port openings to establish flow passage therethrough for spent operating water from said one hydraulic operating chamber to its associated spent water discharge chamber, said spool member comprising for each said pair of transfer port openings a correspondingly disposed pair of cylindrical closure portions one of which is outwardly disposed and has a transfer passage leading from the inner side to the outer side thereof and the other one of which closure portions is inwardly disposed so that the inwardly disposed closure portions are located between the outwardly disposed closure portions, each pair of closure portions having an effective spacing between them and from the other pair and each closure portion having a cylindrical length so coordinated to said spacings that the above defined flow passages between the respective hydraulic operating chambers and the pressure water supply chamber on the one hand and the spent water discharge chambers on the other hand are established incident to the reciprocation of the spool valve member; mechanical motion transmitting means operatively interconnecting said diaphragms and also effective between said diaphragms and said sleeve member whereby said diaphragms move in unison with each other as well as with said sleeve member; and servo-drive means operatively connected with said spool valve member for controllably reciprocating said spool member whereby said sleeve member and said diaphragms are adapted to correspondingly follow the controlling movements of the spool member.

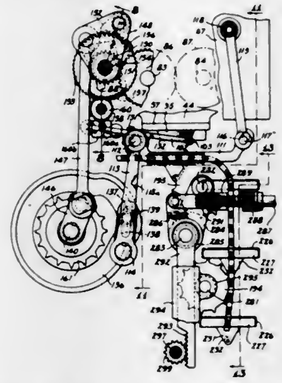
2,667,130

COOKY MACHINE

Arthur A. Kottmann and Paul C. Bauer, Davenport, Iowa, assignors to The Bettendorf Company, Bettendorf, Iowa, a corporation of Maryland

Application May 6, 1950, Serial No. 160,501

9 Claims. (Cl. 107—14)



1. Mechanism for cutting material emerging from a die comprising a supporting structure, a pair of levers mounted on said structure for oscillation about spaced, parallel, fixed axes and having movable axes thereon disposed closer together than their fixed axes and parallel thereto, a link pivotally connecting said movable axes, and a cutting wire disposed between said movable axes and mounted for movement with said link and extending parallel to all of said axes.

2,667,131

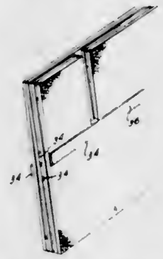
SELF-SEALING SHINGLE

George W. Clarvoe, Somerville, N. J., and Lendal W. Pomeroy, deceased, late of Newark, N. J., by Edith A. Pomeroy, administratrix, Newark, N. J., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application October 28, 1948, Serial No. 56,932

9 Claims. (Cl. 108—7)

1. A pair of prepared asphaltic exterior covering sheets each having front and back surfaces and arranged with one of said surfaces of one sheet facing one of said surfaces of the other sheet, and fracturable means connecting the sheets together, said fracturable means comprising a bituminous compound fracturable at normal temperatures and having high wetting characteristics and high adhesive characteristics under solar radiation at normal temperatures, said compound having a ring and ball softening point of the order of 175° F. to 200° F. and a penetra-



tion at 115° F., 50 grams, 5 seconds, in the range of 5–20, said compound being capable of adhering firmly to either of said surfaces exhibiting the same compound or exhibiting a different substance and capable of splitting substantially medially when the sheets of a pair are separated by fracture of said compound, so that when laid with said compound against a surface, the compound will wet and adhere securely to the surface under solar radiation at normal temperatures.

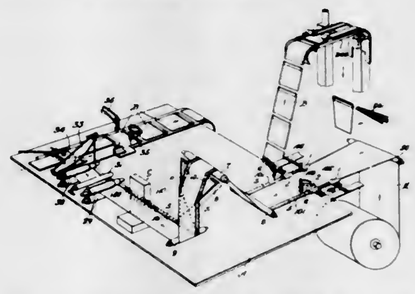
2,667,132

BAGMAKING METHOD AND APPARATUS

Bertie C. Golden, Richmond, Va., assignor to Millhiser Bag Company, Inc., Richmond, Va., a corporation of Virginia

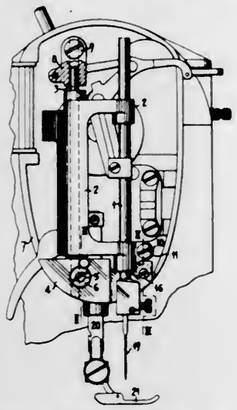
Application December 27, 1949, Serial No. 135,125

11 Claims. (Cl. 112—10)



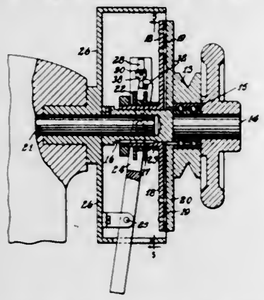
1. In the making of tobacco bags and the like having hemmed mouth portions adapted to receive drawstrings, said method including forming turned over hemmed portions along opposite edges of a continuously moving web, folding the material lengthwise to bring the hemmed portions adjacent one another, then cutting the web into sections to form individual bags, and subsequently completing the bag by stitching along the side edges of the individual bags, the improvement which comprises controlling the relative positions of opposed hemmed mouth portions of the completed bag to facilitate stringing, by passing the opposed hemmed mouth portions of the bag making material over a pair of parallel elongated guide members, after folding the web but prior to severing the web material into individual bags.

2,667,133
SEWING MACHINE
Jean Court, Chatelaine-Geneva, Switzerland, assignor to Mefina S. A., Fribourg, Switzerland, a company of Switzerland
Application October 9, 1951, Serial No. 250,530
Claims priority, application Switzerland November 6, 1950
6 Claims. (Cl. 112—158)



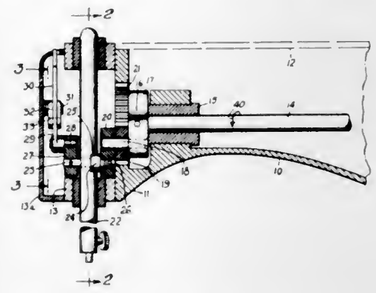
1. In a sewing machine having a casing, a pivotal member mounted on said casing for movement about a horizontal axis extending in the longitudinal direction of the sewing machine, a vertical spindle having its upper portion slidably mounted in said pivotal member, a sector member in engagement with the lower portion of said vertical spindle, a support journalled on said vertical spindle, a needle bar mounted for sliding movement on said support, and means mounted on said casing and in engagement with said sector member for causing movement of said sector member transversely to the sewing machine.

2,667,134
AUTOMATIC STOP MECHANISM FOR SEWING MACHINES
Joseph F. Jeckert, Clifton, N. J.; Leonora Jeckert, executrix of said Joseph F. Jeckert, deceased, assignor to Helen Alnor Jeckert, Clifton, N. J.
Application December 19, 1950, Serial No. 201,624
1 Claim. (Cl. 112—219)



In combination with a sewing machine having an operating shaft and needle reciprocating mechanism driven thereby, an extension for the drive shaft having a motor driven pulley mounted to rotate on said extension and a clutch disc carried by said motor driven pulley, a companion clutch disc slidable on said shaft extension, a pulley mounted on said companion clutch disc to move therewith, a spanner yoke having engagement with the pulley last-named, a lever connected with said spanner yoke, a spring engaging the lever to actuate the yoke in one direction, a lever pivoted to swing close to the yoke and provided with a finger to engage the yoke to hold the clutch discs normally engaged, a magnet for actuating the lever, a switch having circuit connections with the magnet to energize the same, said switch having a movable arm, and thread tensioning means for holding said arm in an open circuit position, whereby said switch will close the circuit through the magnet when the thread breaks, to cause the movable clutch disc to disengage from the other clutch disc.

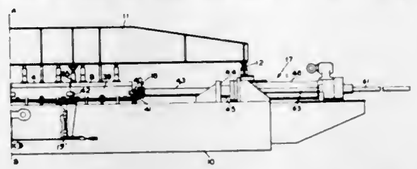
2,667,135
SEWING MACHINE NEEDLE BAR AND TAKE-UP OPERATING MEANS
Sidney R. Bell, Stamford, Conn.
Application March 27, 1950, Serial No. 152,250
6 Claims. (Cl. 112—245)



1. In sewing machines, an arm terminating at its end in a head, an actuating mechanism detachable with respect to said head, a drive shaft mounted in said arm and having, adjacent the head, a main drive crank, said crank having a pin extending into said mechanism, a combined crank and pinion portion rotatably mounted on said pin, an internal gear in alinement with said pinion and in connection with which the pinion operates, the axis of said gear being common with the axis of said drive shaft, a needle bar, means for supporting the needle bar for vertical reciprocating movement in said mechanism, said last named crank having a crank pin rotatable in said needle bar and having an extension beyond said bar, a take-up actuating crank fixed to said crank pin, a take-up arm movably supported in said mechanism, and means for coupling said last named crank with said take-up arm for actuating the arm in the reciprocating drive of the needle bar by said mechanism.

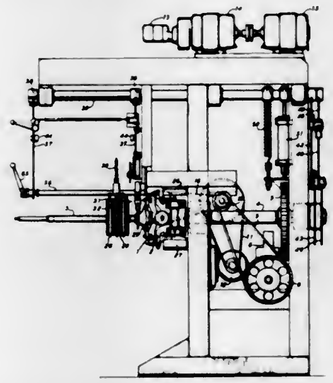
2,667,136
HYDRAULIC MACHINE
Reymond M. Reichl, Forest Hills, and Robert Singer, New York, N. Y., assignors to Hydropress, Inc., New York, N. Y., a corporation of Delaware
Application August 11, 1950, Serial No. 178,812
6 Claims. (Cl. 113—44)

1. In a hydraulic machine for operating on tubes, the combination comprising two groups of mantles closeable to surround a tube, said mantles when closed having a bore the diameter of the finished tube and greater than the initial diameter of the tube to be expanded, means closing one group of mantles, means thereafter closing the other group of mantles, means carried by at least some of said mantles maintaining said



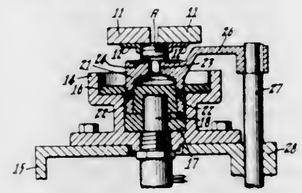
tube substantially in the center thereof, and means admitting fluid pressure into the interior of said tube expanding the same into contact with the interior of the mantle means.

2,667,137
APPARATUS FOR WELDING RADIATORS
Karl Österman, Stockholm, and Gunnar Arnberg, Lidingo, Sweden, assignors to Svenska Aktiebolaget Gasaccumulator, Stockholm, Sweden, a corporation of Sweden
Application July 9, 1947, Serial No. 759,842
2 Claims. (Cl. 113—59)



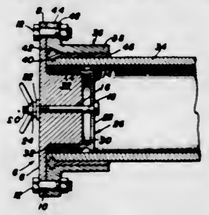
1. Apparatus for welding together the edges of juxtaposed work-pieces presenting a joint to be welded which includes a curved line in the plane of the weld, said apparatus comprising a base, a shaft rotatably mounted on said base, a carriage fixed to said shaft and rotatable therewith, means on said carriage for securing non-cylindrical work pieces thereto, means on said base to rotate said shaft at a uniform rate, two cams fixed to said shaft for rotation therewith, a welding burner having a nozzle, a frame movably supporting said burner on said base, a cam follower engaging one of said cams, linkage means connecting said follower and said frame whereby upon rotation of said cam said frame will move in a substantially vertical direction, a second cam follower engaging the other of said cams, linkage means connecting said second follower and said frame whereby upon rotation of said other cam said frame will move in a substantially longitudinal direction and means comprising a cam plate fixed with respect to said work-piece and movable therewith and a shoe carried by said nozzle and engaging said cam plate during travel of said work-piece relative to said nozzle for maintaining said nozzle a predetermined distance from an adjacent portion of the joint during the welding operation.

2,667,138
LIQUID ADHESIVE APPLYING MECHANISM WITH PISTON FEED
William W. Maher, San Francisco, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application August 23, 1949, Serial No. 111,854
4 Claims. (Cl. 113—93)



1. A mechanism for applying solder or other adhesive to articles such as container nozzles and the like, the combination of a support for holding an article for application of solder, a solder tank containing a supply of molten solder located below said support, said tank at the bottom being formed with a vertically disposed cylindrical well, a hollow cylindrical piston of smaller diameter than said well and open at the bottom said piston being partially immersed in the solder in the tank, an applicator reservoir formed in the top of said piston and at all times above the solder in the tank, horizontal inlet ports extending through the cylindrical wall of said piston and vertically spaced above its bottom edge and below said applicator reservoir, a central vertical outlet port in said piston connecting said reservoir with the hollow interior at the bottom of said piston, and actuating means for reciprocating said piston, said means lowering the piston to position said inlet ports below the top of said well to confine and to impart pressure to the solder therein to force the solder through said outlet port into said reservoir, said actuating means also raising the piston to carry the solder in said reservoir up to said supported article for applying solder to the article by immersing that part of the article which is to be soldered.

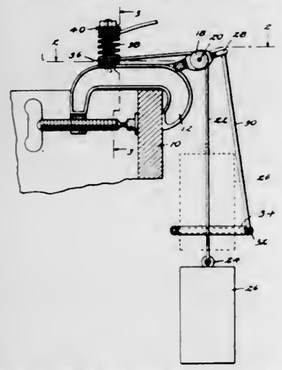
2,667,139
PIPE COLLAR ALIGNING AND CLAMPING MEANS
Walter Campbell, Raymondville, N. Y.
Application September 21, 1950, Serial No. 185,976
2 Claims. (Cl. 113—102)



1. Means for aligning a pipe and a flanged collar exteriorly encircling said pipe with the collar in concentrically spaced relation with respect to the exterior of the pipe, said means being characterized by a disk of a prescribed diameter, the outer marginal edge portion of said disk being provided with bolt holes, said disk being provided on one side at its center with a plug, said plug being solid and cylindrical in cross-section and provided at its axial center with a bolt hole, the peripheral surface of said plug being smooth

and of an outside diameter less than the diameter of the disk, a follower cap opposed to one end of said plug and provided with a peripheral annular flange, said flange telescoping over the adjacent end portion of the plug and being adjustable on said plug, the outside diameter of said flange being adapted to correspond with the diameter of the bore of a pipe, a plurality of independent compressibly resilient packing rings encircling said plug and interposed between the disk and the flange on said follower cap, and a nut equipped bolt passing through the corresponding central portions of the cap and plug respectively, the nut on said bolt being accessibly arranged against the exterior surface of said disk, whereby when the bolt is tightened the annular flange on the cap slides on the plug and compresses the rings between the flange and said disk.

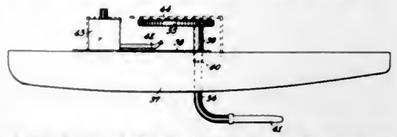
2,667,140
ANCHOR SUPPORT FOR BOATS
Robert J. McCullough, Celina, Ohio
Application May 7, 1953, Serial No. 353,571
1 Claim. (Cl. 114—210)



For use with a boat, an anchoring means comprising a clamp adapted to be detachably secured to the stern of a boat, a guide pulley carried by said clamp and adapted to be disposed rearwardly from the stern, a rearwardly extending lug on said guide pulley, a flexible member slidably disposed through the guide pulley, a rod extending downwardly and rearwardly from said lug, a ring carried by said rod and disposed in a horizontal plane below and concentric with the vertical axis of the guide pulley, an anchor carried by the flexible member and adapted to be positioned when in a raised position within the ring and a vertically positioned coil spring on the upper side of said clamp on which the flexible member is wound when the anchor is raised.

2,667,141
STEERABLE JET PROPELLER BOAT
Thomas W. Lepkowski, New York, N. Y.
Application May 12, 1948, Serial No. 26,605
1 Claim. (Cl. 115—12)

The combination with a power-propelled boat; of a propulsion unit therefor comprising a flash-type boiler for converting water into steam and provided with an outlet, said boiler being adapted for horizontal disposition over the boat deck, a burner located on the deck including an element with outlet for directing a flame beneath the boiler, a sleeve extending upwardly of the deck substantially in the steering axis of the boat with its upper end supporting the boiler at its outlet for communication with the interior thereof, immersible jet pipe means extending at one end into the sleeve for complete rotation therein as a unit about an axis normal to the boat deck, the im-



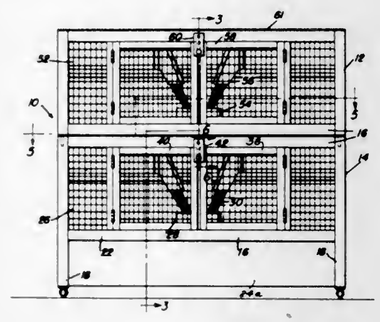
mersed portion of the jet pipe means serving also as a rudder in steering the boat and whereby the boat may be displaced laterally as well as steered in all directions.

2,667,142
SHOCK INDICATING DEVICE
Ernest M. Kane, Oxnard, Calif.
Application July 8, 1952, Serial No. 297,792
10 Claims. (Cl. 116—114)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A shock indicating device comprising a shock-sensitive element having a plurality of frangible extensions arranged along more than one geometrical axis, said extensions being weighted to facilitate fracture thereof.

2,667,143
RABBIT HUTCH
William C. Havens, Pampa, Tex.
Application February 15, 1951, Serial No. 211,095
2 Claims. (Cl. 119—17)



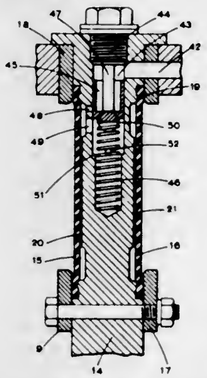
1. A multi-deck rabbit hutch comprising upper and lower housing units, each of said units having side walls, a horizontal foraminous floor and an inclined solid roof, the lower unit having apertures at the corners of the roof, the upper unit having a peripheral frame supporting the floor thereof, pins depending from the forward corners of said frame and being slidably received in corresponding roof apertures of the lower unit and means associated with the rear corners of said frame for angularly supporting said frame with respect to the lower roof, said means comprising spaced legs depending from the rear corners of the peripheral frame, pins mounted on the free ends of said legs, said pins being slidably received in corresponding roof apertures of the lower unit.

2,667,144
ROTARY AND IMPACT TOOL
Seth Evans, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application November 21, 1949, Serial No. 128,654
15 Claims. (Cl. 121—30)



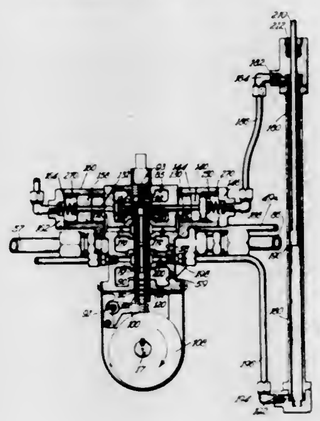
1. An impact device comprising, a body adapted to be attached to the lower end of a drill pipe and having at least one port between the interior and exterior thereof, a baffle in said body above said port forming an annular passage axially of the body, a piston mounted to reciprocate within the body and forming the bottom of a chamber below said baffle, an annular valve slidably mounted in the body and movable to alternately close said port and said passage, whereby pumped fluid is intermittently directed to and from said chamber.

2,667,145
NONFLUTTERING VALVE FOR POWER TRANSMISSION APPARATUS
Howard Frederick Hobbs and Joseph Arthur Thompson, Leamington Spa, England, assignors to Hobbs Transmission Limited, Leamington Spa, England, a British company
Application September 22, 1949, Serial No. 117,162
2 Claims. (Cl. 121—38)



1. In a device for supply and exhaust of liquid to and from a rotating hydraulic system having a rotating housing, and a movable means carried by said housing to form a space between the movable means and the housing into which space liquid is introduced, the provision of a valve chamber in said housing spaced at an appreciable distance radially from the axis of said housing, liquid inlet and exhaust ports in said chamber, said inlet port being adjacent the radially outer end of said chamber, at least one opening in said housing leading from said chamber to said space, valve means in said chamber for opening and closing communication between said inlet port and said opening for supplying liquid to said space and between said exhaust port and said opening for exhausting said space, said valve means comprising a piston pressed radially outwardly by a spring, said piston after moving radially inwards to close communication between said opening and said exhaust port having an appreciable movement before opening communication between said opening and said inlet port, said spring being light enough to permit a predetermined minimum pressure to move the piston to establish communication between said inlet port and said opening, valveless ducting in said housing leading from a liquid inlet opening in said housing to said inlet port and forming with said chamber and said first mentioned opening a channel for liquid to said space, said channel having at some radially outer part thereof a cross-sectional area considerably less than the cross-sectional area at the radially inner part of said channel in order to avoid cavitation in said channel, said valve means being of such weight that the centrifugal force thereof is equal to the centrifugal pressure developed by the liquid in said channel.

2,667,146
FOLLOW-UP PRESSURE FLUID SERVOMOTOR
Henry H. Wheeler, Bellerose, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application January 27, 1948, Serial No. 4,616
6 Claims. (Cl. 121—41)



1. In a servo-mechanism, the combination with a hydraulic motor, a housing provided with a pressure chamber adapted to contain fluid under pressure and a pair of separate exhaust chambers, a hydraulically operated device adapted to supply a predetermined volume of fluid under pressure to said hydraulic motor to operate the same in one direction, said motor having an inlet adapted to receive the fluid from said device and an outlet through which fluid is

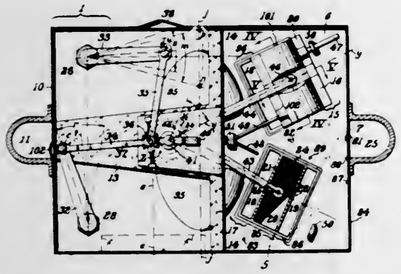
exhausted when the motor is operated by fluid delivered from said device, mechanism for connecting said device and the outlet of said motor to said pressure chamber and one of said exhaust chambers respectively and then connecting said motor outlet and said fluid operated device to said pressure chamber and the other exhaust chamber respectively whereby said motor will be operated in either direction, said mechanism including a conduit communicating with said hydraulically operated device, a movable valve sleeve having perforations arranged to communicate with said pressure chamber and said conduit and said motor outlet and one of said exhaust chambers, a valve slidably mounted in said sleeve and normally closing the perforations in the sleeve, a cam rotatable in one direction only and having a continuous valve actuating surface for displacing said valve relatively to said sleeve to open the perforations in the sleeve and thereby permit fluid under pressure to flow from said pressure chamber into said device and from said motor outlet into one of the exhaust chambers and thereby operate the motor, and instrumentalities operated by said device for rotating said sleeve, a spiral in said sleeve and a stationary member engaging said spiral to reciprocate the sleeve longitudinally as it rotates to reciprocate with said valve after the perforations of the sleeve have been opened by the valve whereby the valve will close the perforations in said sleeve and thereby stop the motor when the motion of the valve is stopped and said motor will be locked against manual displacement.

2,667,147

EXPANSIBLE CHAMBER MOTOR OF FLUID VOLUME METERS

William Laird Brown, Lansdowne, Pa.

Application October 25, 1950, Serial No. 192,073
16 Claims. (Cl. 121—48)



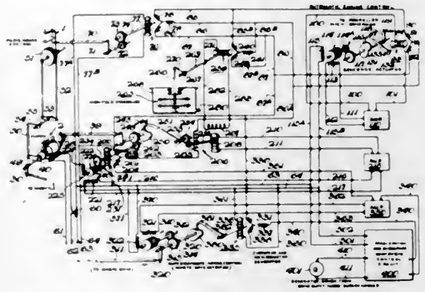
1. In a fluid volume meter, a pair of diaphragms; a casing having an outlet; a valve table, within the casing, having valve seats with diaphragm ports, center ports, and case ports separated by crossbars; valve covers reciprocating on the seats; a fork channel, for conducting fluid from the center port to the outlet, having two inner walls affixed at their upper edges respectively to the two crossbars between the diaphragm ports and the center ports, and having two outer walls affixed at their upper edges respectively to the two crossbars between the center ports and the case ports; both inner and outer walls being inclined from the vertical towards the outlet to provide clearance for the diaphragms, and to provide adequate cross sectional area in the fork channel.

2,667,148

ENGINE CONTROL DEVICE WITH AN INDUCTION PRESSURE RESET MECHANISM RESPONSIVE TO OPERATION OF AN ANTI-DETONANT FLUID INJECTION SYSTEM

Allen W. Blanchard, Allendale, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application May 14, 1949, Serial No. 93,215
7 Claims. (Cl. 123—25)



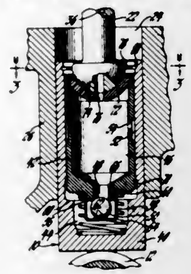
7. For use with an induction system of a supercharged aircraft engine having operable means for injecting a supplemental fluid for suppressing predetonation of said engine; the combination comprising motor means for regulating the induction pressure of said engine, an induction pressure responsive control for said motor means to maintain the induction pressure of the engine at a preselected value, a manually operable pilot's control member, means operatively connected to said member to select said pressure upon adjustment of said member, stop means limiting adjustment of said pilot's control member in a pressure increasing direction, means responsive to initiation of operation of said fluid injection means to release said stop means and increase the range of pressure selection.

2,667,149

HYDRAULIC LASH ADJUSTER

William J. Purchas, Jr. and Robert C. Moser, Grand Rapids, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application January 25, 1949, Serial No. 72,642
8 Claims. (Cl. 123—90)



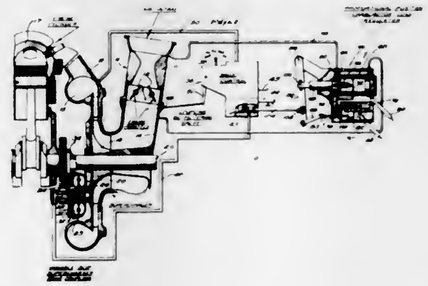
7. In a hydraulic tappet, a generally cup-shaped cylinder adapted for axial rotation and reciprocation in operation, a piston slidably fitted in the cylinder for rotation and reciprocation relative thereto, said piston having a passage extending through its end inwardly of the cylinder for supplying fluid to the closed end of the cylinder, said piston end terminating in a reduced diameter portion formed with a valve seat surrounding said passage, a valve engageable with said seat to close said passage, said valve being freely movable into and out of engagement with said seat in response to inertia forces and variation in fluid pressures in said passage and cylinder, a valve cage journaled to said piston portion and limiting the displacement of the valve from its seat to a predetermined amount, said cage and piston having cooperating abutment surfaces outwardly adjacent said piston portion, and a compression spring for urging said piston outwardly of the cylinder, said spring being interposed between the cage and the closed end of the cylinder whereby in operation the cage is rotatable with the cylinder relative to piston and wear of said abutment surfaces serves to compensate for wear between said valve, valve seat and cage.

2,667,150

CONTROL METHOD AND APPARATUS

Richard J. Coar, Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application May 21, 1947, Serial No. 749,430
24 Claims. (Cl. 123—119)



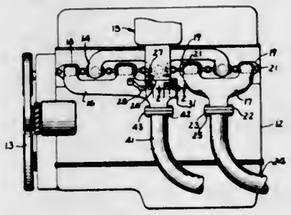
1. In an engine having an induction system, a supercharger and a throttle in said induction system, means including a variable slip fluid coupling for driving said supercharger, and means responsive to the pressure on the upstream side of said throttle and the pressure between the throttle and supercharger for controlling the speed of said supercharger by varying the slip of said fluid coupling.

2,667,151

EXHAUST MANIFOLD FOR INTERNAL-COMBUSTION ENGINES

Joseph P. Marx, Hartford, Wis.

Application May 20, 1953, Serial No. 356,189
10 Claims. (Cl. 123—122)



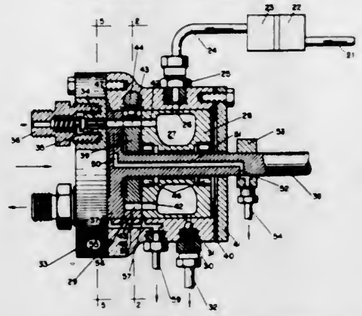
1. An exhaust manifold assembly for an internal combustion engine comprising, in combination, an exhaust manifold section mounted on the engine open at one end, a plate fitted over said open end, means to secure said plate in place tightly, and a second manifold section mounted on said engine.

2,667,152

FUEL INJECTION AND DISTRIBUTING APPARATUS FOR INTERNAL-COMBUSTION ENGINES

Heinrich Lang, Munich, Germany

Application August 31, 1951, Serial No. 244,605
Claims priority, application Switzerland
September 6, 1950
13 Claims. (Cl. 123—138)



1. In a fuel injection and distributing apparatus for multi-cylinder internal combustion engines the combination comprising a stationary head plate; a plurality of equidistantly and concentrically arranged passages therein; each passage adapted for connection with a fuel injection line leading into one engine cylinder; a stationary high pressure fuel accumulator arranged coaxially with said head plate; a plurality of equidistantly and concentrically arranged outlet ducts in said accumulator, each of said outlet ducts being axially in line with one of said passages in said head plate; a throttle disc and a rotating distributor disc in close assembly between and with said accumulator and said head plate; said throttle disc being next to said accumulator and said distributor disc next to said head plate; slide faces upon the contacting surfaces of each of said discs, the said head plate and the said accumulator, respectively; a plurality of slots in said throttle disc each registering with one of said outlet ducts in said accumulator; the throttle disc being rotatably adjustable relative to said accumulator to vary the degree of registration between said slots and said outlet ducts and means to effect such adjustment of said throttle disc; an apportioning duct in the rotating control disc arranged to successively register with and to connect each passage in said head plate and each slot in the throttle disc; means to rotate said distributor disc in timed relation to the engine, means to supply said accumulator with fuel under pressure at least equal to the required injection pressure; and means to maintain the fuel pressure in said accumulator at least approximately constant.

2,667,153

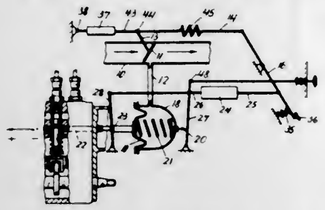
REGULATION OF THE QUANTITY OF FUEL IN COMBUSTION ENGINES

Wolf Dieter Bensinger, Muhlacker, Wurttemberg, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany

Application September 27, 1949, Serial No. 118,091
Claims priority, application Germany
October 1, 1948
12 Claims. (Cl. 123—140)

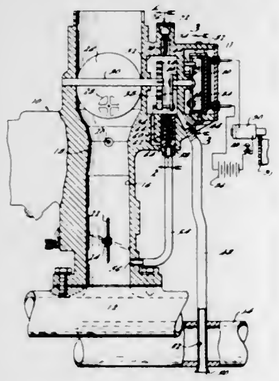
1. Regulating device for injection internal combustion engines comprising an actuating lever, a throttle valve in the engine intake manifold, a

fuel quantity control member, means responsive to ambient pressure in the intake manifold for influencing the control member, including a diaphragm operatively engaging the control member and a spring pre-loading the diaphragm,



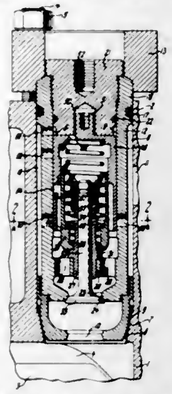
means responsive to movement of the actuating lever for temporarily additionally influencing the control member, and means resiliently connecting the actuating lever with the throttle valve for delayed-action movement therewith in at least one direction.

2,667,154
CHOKE DEVICE
Thomas M. Ball, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application August 18, 1949, Serial No. 111,035
11 Claims. (Cl. 123—179)



1. In a carburetor having a housing and means forming a fuel and air mixture passage adapted to deliver fuel and air to an internal combustion engine having a starter, a choke valve including a shaft extending transversely of said passage, said valve being mounted for rotation between an open position and a closed position in which the flow of air through said passage is restricted, said shaft extending through a wall of said housing and having a portion thereof located exteriorly of said passage, a bimetallic element located exteriorly of said passage with one end thereof secured to said shaft, a solenoid, means to energize said solenoid when said starter is actuated, a movable member adapted to be moved as an incident to energization of said solenoid, and means operatively connecting said member and the other end of said element, said bimetallic element being adapted to move said shaft and said valve toward the closed position of said valve in response to a decrease in temperature of said bimetallic element and said means being operative to transmit torque through said element to rotate said valve toward its closed position whenever said starter is actuated.

2,667,155
AUTOMATIC GAS INLET VALVE
Milton M. Paluch and Conrad A. Teichert, Grand Rapids, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 31, 1952, Serial No. 328,912
9 Claims. (Cl. 123—189)

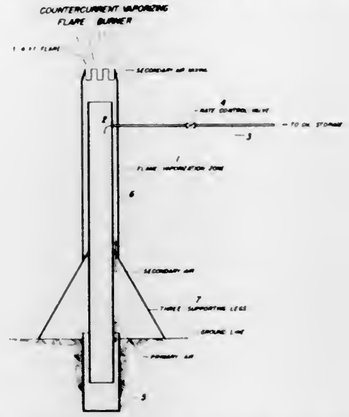


1. In combination, a poppet valve, a cylinder having a bore embracing the valve, one end of said cylinder being closed and its other end having an opening terminating outwardly thereof in a seat for the valve, a hollow piston having a head disposed between the valve and the closed end of the cylinder and a skirt slidably fitting the cylinder bore, structure within the cylinder and rigidly associated therewith having an internal surface slidably guiding the valve and an external surface slidably fitting the internal periphery of the piston skirt, said cylinder having a passage connecting the cylinder exterior with the closed end of said bore, said cylinder also having a port connecting the cylinder exterior with said bore intermediate its ends, said piston skirt normally closing said port and having a transfer passage communicating with said opening, said piston skirt also having a port normally closed by the cylinder and connecting said transfer passage to the external periphery of the piston skirt, said ports being registerable with each other upon a predetermined displacement of the piston from a normal position adjacent said cylinder closed end, said piston head having an orifice extending therethrough of predetermined restricted fluid flow capacity relative to the flow capacities of said ports, said structure having an orifice providing communication between said transfer passage and said first named orifice while said ports are out of registry, said last named orifice being of a size having a predetermined restricted flow capacity relative to said first named orifice and being closed by the piston skirt when said ports are in registry, and springs reacting against said structure and respectively urging the piston head to a position adjacent said cylinder closed end and urging the valve against said seat.

2,667,156
COUNTERCURRENT VAPORIZING FLARE BURNER
Lyman R. Brown, Douglaston, and Kenneth J. Whittet, Centerport, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application November 19, 1948, Serial No. 61,076
4 Claims. (Cl. 126—59.5)

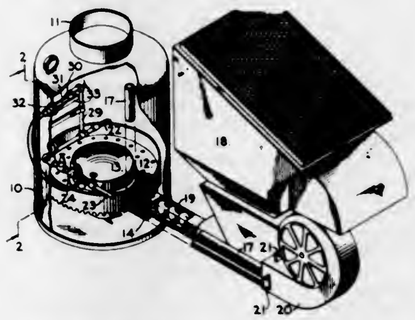
1. A countercurrent vaporizing flare burner comprising an upright tube, an upright elongated

cylindrical combustion and vaporizing chamber having only its lower portion within said upright tube, substantially concentric therewith and spaced therefrom to provide an annular orifice for primary air, an upright sleeve surrounding and substantially concentric with only the upper portion of said combustion and vaporizing chamber and spaced therefrom to provide an annular orifice for secondary air, conduit means



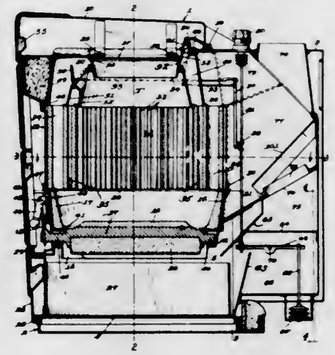
for introducing liquid fuel into said combustion and vaporizing chamber at the inner surface thereof and in the region of the top thereof, means for regulating the flow of liquid fuel in said conduit means, and means supporting said combustion and vaporizing chamber in spaced relation with the bottom of said upright tube and supporting said upright sleeve with the upper end thereof extending beyond the upper end of said combustion and vaporizing chamber.

2,667,157
SMOKE GENERATOR
Anthony Vastola, Buffalo, N. Y., assignor to John E. Smith's Sons Company, Buffalo, N. Y., a corporation of New York
Application March 21, 1949, Serial No. 82,561
3 Claims. (Cl. 126—59.5)



1. A smoke generating apparatus, comprising a cylindrical body having a sawdust burner in its lower end and a smoke outlet at its upper end, main and auxiliary spray means arranged within said body, said main spray means being disposed for directing a spray of water against said burner, thermo-controlled valve means common to said spray means, respectively, for automatically rendering the same operative and inoperative in response to rising and falling fluctuations of temperature, respectively, within the burner body, said valve means including a thermo-responsive element disposed within said body and in operative spray-playing relation to said auxiliary spray means.

2,667,158
COAL BURNING MAGAZINE SPACE HEATER
De Witt H. Wyatt, Columbus, Ohio
Application September 16, 1948, Serial No. 49,607
2 Claims. (Cl. 126—73)

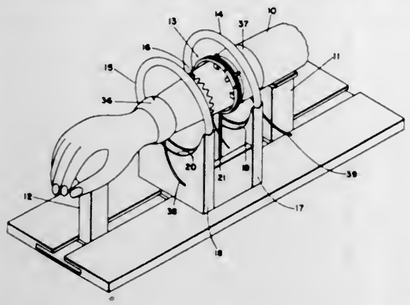


1. In a coal-burning heater, a main casing structure formed internally to provide in vertical superposed order an ash pit, a grate, a fire bowl and a fuel magazine; said magazine having a refractory lining formed with a plurality of open-ended passages for the transmission of burning and heated combustion gases and with a plurality of open-ended adjacent passages for the transmission of combustion air to said fire bowl; spaced inner and outer divisional plates mounted on said refractory lining and defining between them an air chamber in the top of said heater which is in open communication with the passages of said lining employed for the transmission of combustion air; said chamber having an air inlet, a valve member for said air inlet which when open provides for the passage of air from the atmosphere downwardly through said air chamber and through the air-conducting passages of the refractory lining to the fuel contained in said fire bowl; a plenum chamber having a flue outlet formed in the top of said heater casing around the outer of said divisional plates, said plenum chamber being in communication with the open upper ends of the flame and combustion gas passages of said lining, and thermostatic means disposed in heat-exchange relation to flue gases present in said plenum chamber and responsive to predetermined increase or decrease in the temperature of said gases for decreasing or increasing the quantity of air admitted by said valve member into said air chamber.

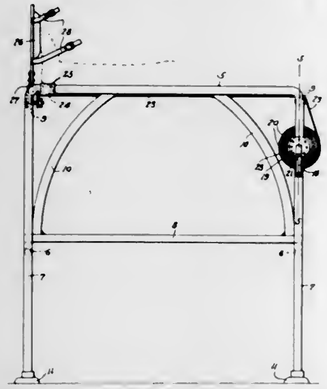
2,667,159
PLETHYSMOGRAPH
Harold D. Goldberg and Milton I. Goldberg, Bronx, and Heinz I. Lippmann, New York, N. Y.
Application December 21, 1948, Serial No. 66,524
9 Claims. (Cl. 128—2.05)

1. In a plethysmograph for measuring the blood flow through a body member, two field coils energized by an oscillating current source whereby an alternating magnetic field is created therebetween, a pick-up coil therebetween and

within said magnetic field whereby a voltage is induced in the pick-up coil, voltage-responsive means electrically connected to the pick-up coil, the said field and pick-up coils having central openings in longitudinal alignment and proportioned for accommodating therethrough said member, the pick-up coil being expandable and proportioned for embracing contacting engagement with said member whereby changes in the cross-sectional area of the body member will produce corresponding changes in the proportions of the expandable pick-up coil, and a support intermediate said field coils and laterally adjacent said pick-up coil, said support being proportioned for supporting engagement with the body member when the latter member is in operative engagement with the pick-up coil.

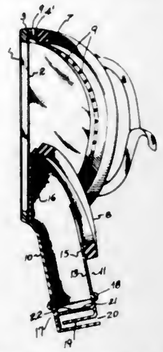


2,667,160
ORTHOPEDIC TABLE
Frank L. Ackerman, Pendleton, Oreg.
Application September 16, 1952, Serial No. 309,825
1 Claim. (Cl. 128—84)



An orthopedic table comprising a frame embodying transverse downwardly bowed bars at the ends of said frame, said frame having an open top, a roll of fabric material mounted at one end of the frame below said open top, said fabric material being stretched over said open top of the table and curved transversely over said downwardly bowed bars, providing a transversely curved support for a limb being supplied with a cast, a foot rest rising from one end of the frame to which the foot of the limb under treatment is firmly secured, means for normally holding said roll against unwinding maintaining the fabric material in stretched condition, said fabric material adapted to be incorporated in the cast with the wrapping of the cast.

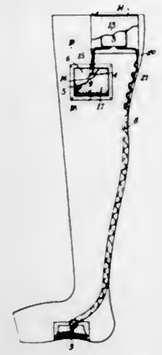
2,667,161
FACE MASK
Edwin E. Wood, Malden, and William A. Hafferty, Charlestown, Mass.
Application September 12, 1952, Serial No. 309,202
6 Claims. (Cl. 128—141)



1. A face mask comprising a transparent plastic continuous wall formed to extend around the front and side of the face of an individual from a position in the normal region of the forehead in front of the ears and around the chin covering substantially the whole face of the individual, said wall being formed of two parallel spaced plastic sheet elements with a sealing flange around the periphery of the elements, a second flange element lying against the periphery of said wall inwardly thereof in the direction of the individual's face, said second flange being of substantially hard material and having a series of spaced holes extending through the material of the flange adjacent the inside periphery of the wall, a third flange member of soft yielding non-permanently deformable material applied around the periphery of said second flange acting as a seal for the mask against the face, means forming a separate chamber at the lower end of the mask for the nose and mouth, said means comprising a second wall element having portions joined to said first wall in the lower sections thereof and a portion extending continuously in front of and at the sides of the nose and mouth, a nose and mouth sealing flange of soft yielding non-permanently deformable material applied continuously around the edge of the second wall in the portion which extends around the nose and mouth, the means forming said separate chamber having a downwardly extending air conduit having opening in the direction towards the body of the individual when the mask is in place and means for attaching the mask to the head of the individual.

2,667,162
DEVICE PERMITTING THE AMBULATORY IONIZATION OF BLOOD CIRCULATORY TROUBLES OF THE LOWER LIMBS
Henry Zwahlen, Paris, France
Application March 2, 1951, Serial No. 213,509
Claims priority, application France May 3, 1950
2 Claims. (Cl. 128—172.1)

1. A device for the ambulatory longitudinal ionization of blood circulatory troubles in the lower limbs comprising a stocking, a low-strength D. C. source, a pocket arranged at the top end of the stocking to support said source, an anode, an absorbent pad surrounding said anode soaked with a medicinal solution, an insulating sheet secured to the thigh end of the stocking having said pad secured thereto, a cathode designed to avoid any interference with the statics of the patient's foot, a pad wrapped about said cathode, an insulating sheet secured to the



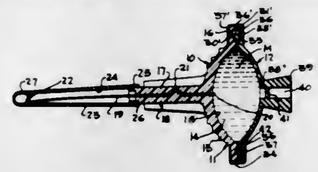
stocking opposite the instep having the cathode pad secured thereto, an extensible lead connecting the anode and the cathode with the electric source and a sheath to protect said lead.

2,667,163
UNITARY SYRINGE
Arthur E. Smith, Los Angeles, Calif.
Application October 13, 1951, Serial No. 251,165
1 Claim. (Cl. 128—216)

A disposable syringe including a front member and a rear member, said front member including a body having a forward portion, a needle mounted in said body forward portion, a cap on said body forward portion and surrounding said needle, said front member having an external peripheral flange at the rear end thereof and having a substantially semi-spherical recess therein, said rear member being made of flexible material and including a body having a peripheral portion engaging said front member flange, said rear member having a substantially semi-spherical recess complemental to and of the same size and shape as the recess of said front member, said two recesses forming a double convex shaped solution-receiving chamber, said needle communicating with said chamber, said rear member having a protuberance projecting therefrom and adapted to be grasped by the fingers of an operator.

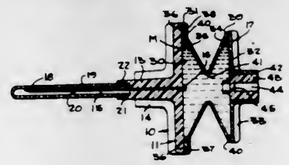
2,667,164
SYRINGE
Arthur E. Smith, Los Angeles, Calif.
Application March 19, 1952, Serial No. 277,342
10 Claims. (Cl. 128—216)

1. A syringe including a front member and a rear member, the front member including a body having a cupped portion and a flange about the cupped portion, said body including a needle communicating with the cupped portion and projecting beyond the front member, said rear member including a cupped portion coaxial with the front member, said rear member having a flange engaging said front member flange, means uniting said flanges, said rear member having an outwardly opening circular slot substantially aligned with the inner edge of the flange thereon, said



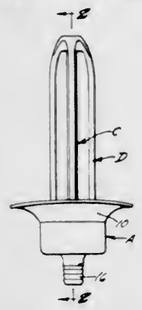
rear member being flexible and depressible, said front member having a tapered forward end, and a cap releasably engaging said forward end and surrounding said needle.

2,667,165
DISPOSABLE SYRINGE
Arthur E. Smith, Los Angeles, Calif.
Application March 19, 1952, Serial No. 277,344
4 Claims. (Cl. 128—216)



1. A syringe including a front member and a rear member, said front member including a body having a tapered forward end, a needle in said body and projecting forwardly therefrom, said front member having a planar rear face and having an annular rim about the planar face, said rear member including a body, said body having an integral accordion folded extension, said extension including a first, inwardly directed, frusto-conical portion united to the rear member body and a second, outwardly directed, frusto-conical portion integral with the inwardly directed portion, said outwardly directed portion having an integral annular rim engaging the front member rim, said front member rim including an extension bent over and secured to the rear member rim to make a seal.

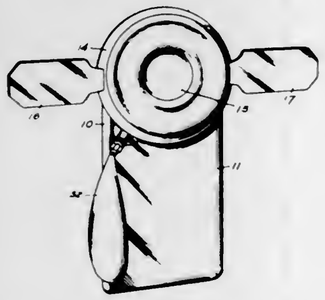
2,667,166
ANTRUM SPRAY
Hattie Scheer, Atlantic City, N. J.
Application November 29, 1951, Serial No. 258,903
2 Claims. (Cl. 128—242)



1. A vaginal spray comprising a base having a threaded chamber therein, an inlet passageway leading into said chamber, a combined dilator and guard having a base, with an internal bore,

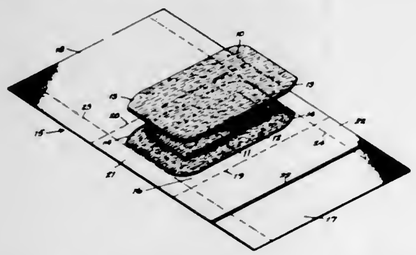
a combined rotatable nozzle with small openings therein having vanes affixed adjacent its end, said nozzle surrounded by said dilator and guard, and said vanes being located within said dilator base bore, and a disc having a bore with small openings therein being located within said vanes, and wherein liquid pouring through said disc openings will rotate said vanes.

2,667,167
COLOSTOMY POUCH
Paul A. Raiche, North Providence, R. I., assignor to Davol Rubber Company, a corporation of Rhode Island
Application November 16, 1951, Serial No. 256,757
4 Claims. (Cl. 128—283)



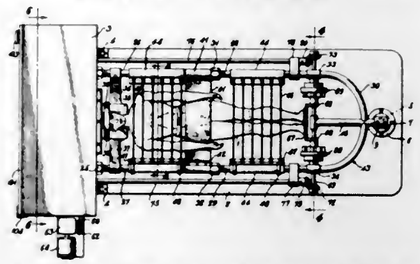
2. A colostomy pouch, comprising a bag having flexible front and rear walls, a flexible ring on one wall having an opening leading to the bag interior, a second opening in one wall of the bag, a connection device having an air passage communicating with the second opening, and an expansible air retention device detachably secured to said connection device and communicating with the connection device air passage.

2,667,168
DISPOSABLE DIAPER
Louise G. Lovekin, Fairfield, Conn.
Application October 4, 1951, Serial No. 249,649
3 Claims. (Cl. 128—284)



1. A diaper, comprising a moisture absorbent body consisting of inner and outer paper-like layers of cellulosic material of substantially rectangular shape and an intermediate paper-like layer of cellulosic material sandwiched between said inner and outer layers and having its side and end edges spaced inwardly from the side and end edges of said inner and outer layers, said outer layer being substantially thicker than said inner layer, and a covering consisting of a rectangular piece of open mesh gauze material folded about said absorbent body.

2,667,169
SUN BATHING APPARATUS
Nicholas M. Kambourakis, New York, N. Y.
Application August 21, 1952, Serial No. 305,576
8 Claims. (Cl. 128—372)



3. A sun bathing apparatus comprising a rotatably mounted generally U-shaped member having spaced parallel side rails, a head support on said member, a hip support on said member, a plurality of parallel flexible strands connected between said side rails for further supporting the body of an individual using the apparatus while permitting exposure of the body to the sun's rays, a head strap detachably connected to said head support for retaining the user's head on said head support, a hip strap detachably connected to said hip support for retaining the user's hips on said hip support, a second plurality of parallel, flexible strands detachably connected between said side rails, said head strap, hip strap, and second plurality of strands serving to retain the user's body on said U-shaped member when said U-shaped member is completely rotated while permitting exposure of the body to the sun's rays.

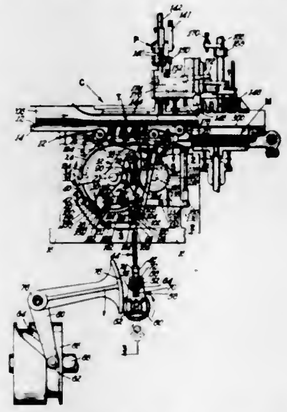
2,667,170
CRIMPED WRAPPER FOR CIGARETTES
Herbert A. Lebert, Millbrae, Calif.
Application April 1, 1950, Serial No. 153,387
8 Claims. (Cl. 131—9)



8. A smoking article comprising tobacco shreds in rod-like form and a wrapper surrounding the same and in abutting relation thereto, said wrapper having longitudinal corrugations substantially the full length of the wrapper, the bases of the corrugations contacting the tobacco so as to form between adjacent bases channels of substantial extent, wherein some of the channels progressively decrease in size from one end thereof to the other and adjacent portions of the wrapper on opposite sides thereof define a smooth curve, corresponding substantially to the contour of the rod-like form of the tobacco shreds.

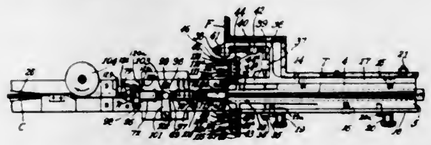
2,667,171
FILLER FEED CONTROL MECHANISM FOR CIGAR MACHINES
Sigurd Clausen, Brooklyn, and Joseph A. Neumair, Hollis, N. Y., assignors to International Cigar Machinery Co., a corporation of New Jersey
Application November 18, 1949, Serial No. 128,076
12 Claims. (Cl. 131—21)

1. In a mechanism for feeding charge lengths of tobacco in a cigar machine, a horizontal conveyor belt; a plurality of pulleys; a large driven pulley engaging said conveyor belt; circumferential ratchet teeth on said pulley; a lever fulcrumed at the axis of said pulley; a plurality of pawls operatively mounted on one end of said lever to engage said ratchet teeth to drive said pulley; a gear crank; means adjustable on said crank to vary the effective radius of said gear crank; a connecting rod between said gear crank and said lever to move said lever through a distance equal to the throw of said gear crank; a



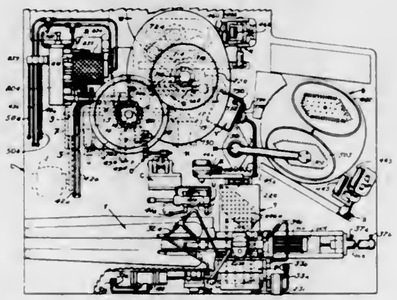
second lever; a moving cam; a cam follower on said second lever engaging said cam, so that a reciprocatory movement is imparted to said second lever; a gear section on the other end of said second lever engaging said gear crank so that the reciprocatory movement of said second lever is transformed into rotary motion at said gear crank; means for disengaging said pawls from the said teeth on the return stroke; and a plurality of locking pawls to maintain said driven pulley relatively stationary during the return stroke of the feed pawls.

2,667,172
CIGARETTE ROD CONDITION MEASURING AND INDICATING
William C. Brockhuysen, Garden City, and James W. Warren, New York, N. Y., assignors to American Machine & Foundry Company, a corporation of New Jersey
Application August 21, 1946, Serial No. 692,062
32 Claims. (Cl. 131—21)



1. In a cigarette making machine for forming a stream of cigarette tobacco into a cigarette rod, means for forwarding a stream of tobacco along a predetermined path, an elongated tongue for compressing the tobacco stream as it is forwarded along said predetermined path, spaced vertical and horizontal supports for providing a floating mounting for said tongue while maintaining said tongue substantially rigid, said supports including horizontal supports arranged so that one of said horizontal supports will be compressed when the other is stretched when the tongue, under the action of the cigarette rod, is moved longitudinally, electrical resistance wire type strain gages mounted on the horizontal spaced supports, a Wheatstone bridge circuit including said gages for yielding an additive output as a result of the motion of the cigarette rod under the tongue, and a device actuated by the output of said bridge.

2,667,173
CIGAR MACHINE
Henry H. Wheeler, Bellerose, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application November 26, 1946, Serial No. 712,456
15 Claims. (Cl. 131—21)

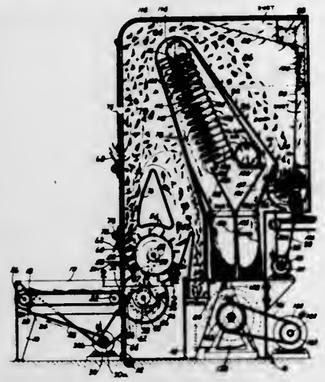


1. In a cigar machine, the combination with a horizontal knife underlying and supporting the lower end of a vertical column of long filler tobacco, of a bunch rolling apron having a portion underlying the portion of said knife supporting the tobacco column, means for operating said knife to retract it whereby the column will be deposited on the apron and the knife moved across the lower end of said column after it is deposited on said apron, to separate a bunch charge therefrom, a rolling pin having an axial shaft arranged beneath said apron and extending transversely thereof behind the bunch charge supported thereon and adapted to advance a loop in the apron to roll the bunch charge in a binder to form a cigar bunch, a rider plate pivotally mounted on the axial shaft of said rolling pin, and instrumentalities supporting said rolling pin and constructed and arranged to swing the rolling pin in a downward arc with the rider plate to cause the rider plate to form a loop in the apron and then to swing the rider plate up and forwardly into a position resting on the bunch charge supported on the rolling apron to cause the charge to be coiled upon itself when said loop is advanced by the rolling pin.

2,667,174
APPARATUS AND METHOD FOR RIPPING AND ASSORTING TOBACCO LEAVES
Oswald Erich Eissmann, Richmond, Va., assignor to American Machine Development Corporation, a corporation of New York
Application November 28, 1947, Serial No. 788,705
21 Claims. (Cl. 131—146)

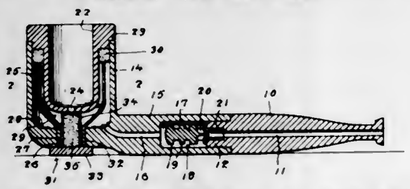
1. Apparatus for ripping a continuous stream of tobacco leaves and separating the ripped tobacco pneumatically into different categories, said apparatus having a comb, a device for directing a continuous stream of tobacco to said comb, a curved concave surrounding the path of travel of the comb, said comb having teeth coacting with said device for penetrating at spaced intervals the continuous stream of tobacco leaves and positively pulling them around said curved concave, a roller positioned above said comb having spikes projecting therefrom passing be-

tween the teeth of said comb to engage with tobacco leaves carried by the teeth of said comb and to engage and pull the same through said teeth to thereby sever the laminae from the stems and heavy ribbed portions of the tobacco leaf, a separating chamber, an obstruction-free air passageway connecting the delivery side of said spiked roller to said separating chamber, a blower for causing a continuous stream of air to flow through said separating chamber for removing tobacco leaf laminae and fine particles from the



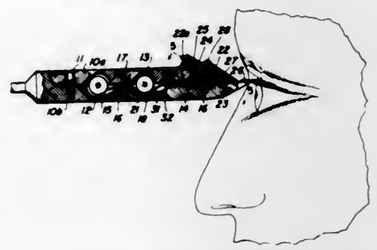
ripped tobacco discharged into said separating chamber, and a dividing wall positioned below said separating chamber for removing cleaned tobacco stems falling from said chamber and for directing tobacco stems and heavy ribbed portions of tobacco having tobacco leaf adhering thereto back into the path of operation of said spiked roller to be reprocessed through the teeth of said comb to effect a further severing of leaf laminae from the stems and heavy ribbed portions of tobacco.

2,667,175
PLEASURE SMOKING PIPE
Cary F. Parks, Birmingham, Ala.
Application October 3, 1950, Serial No. 188,218
1 Claim. (Cl. 131—202)



A smoker's pipe comprising an outer hollow bowl provided with a stem extending therefrom, there being a longitudinally extending bore arranged in said stem communicating with the interior of said bowl, an elongated mouthpiece provided with a shoulder snugly seated in said bore, there being a longitudinally extending bore arranged in said mouthpiece communicating with the bore in said stem, an inner bowl arranged in spaced relation within said outer bowl said inner bowl having a laterally extending shoulder, a baffle cylinder interposed between said inner and outer bowls and defining a pair of compartments, one of said compartments being an inner compartment and surrounding said inner bowl, and the other of said compartments being an outer compartment between said baffle and said bowl there being an opening in the bottom of said inner bowl, an annular filter element positioned around the upper end of said baffle cylinder, said filter element being so dimensioned that it completely fills the vertical space between the upper end of the baffle cylinder and the innermost lower shoulder of the inner bowl and extends laterally to contact both the outer wall of the inner bowl and the inner wall of the outer bowl thus separating said compartments from each other so that smoke drawn from said inner bowl will pass outwardly of the opening therein into said inner compartment and will pass outwardly of said inner compartment through said filter into said outer compartment and then through the bores in the stem and mouthpiece, the lower portion of said baffle cylinder defining an intermediate threaded collar, a body member including an exteriorly threaded portion arranged in engagement with said collar, a flat knurled knob arranged on the lower end of said body member, the upper end of said body member being provided with a plurality of spaced parallel fingers, and an absorbent pad positioned in said body member between said fingers.

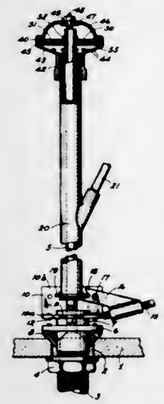
2,667,176
DISPENSING APPLICATOR FOR ARTIFICIAL EYELASHES AND THE LIKE
Judy Lund Wassmer, New York, N. Y.
Application March 24, 1952, Serial No. 278,141
8 Claims. (Cl. 132—1)



1. An applicator for artificial eyelashes and the like, comprising a casing; feed mechanism for a continuous length supply of artificial eyelash material, said mechanism being disposed within said casing; means in said casing for supplying said length of eyelash material to the feed mechanism, said casing defining a path of longitudinal travel for said eyelash material to a discharge exteriorly of the casing; severing means disposed in said casing in advance of the feed mechanism, for severing action with respect to said material and across the said path of travel thereof; means extending outside said casing for operating said feed mechanism; means extending outside said casing for operating said severing means; and holding means immediately in advance of said severing means and within the said path of travel of said artificial eyelash material, for retaining severed lengths thereof during the stage of application to natural eyelashes.

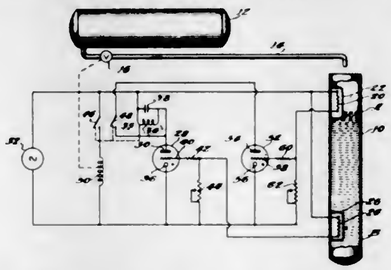
2,667,177
FLUSH TANK VALVE WITH VACUUM BREAKER
Harry Ford Smith, Lexington, Ohio, assignor to Mansfield Sanitary Pottery, Inc., Perrysville, Ohio, a corporation of Ohio
Application November 23, 1948, Serial No. 61,647
9 Claims. (Cl. 137—218)

1. A non-siphoning inlet valve for a flush tank comprising an inlet pipe having a valve seat at its open end to be positioned above the predetermined water level in the tank, a hush pipe around and movable endwise relative to said inlet pipe, a housing adjustably attached to the end of said hush pipe adjacent to said open end of the inlet pipe, said housing having an air inlet opening near said hush pipe, a valve to engage said seat and a rigid partition secured to the housing between said air inlet and said valve,



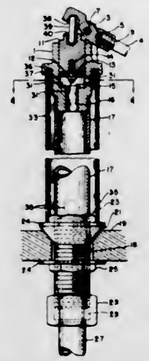
said partition having central, sliding, hush pipe guiding engagement with said inlet pipe and having a plurality of water passages therethrough, resilient valve means bodily movable in the housing for engaging the partition or housing and closing either said water passages or said air inlet, and means responsive to the liquid level in the tank for moving the said hush pipe axially.

2,667,178
LIQUID LEVEL CONTROL
Mark S. Fred, Chicago, and Everett G. Rauh, Hinsdale, Ill., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application January 24, 1951, Serial No. 207,638
8 Claims. (Cl. 137—392)



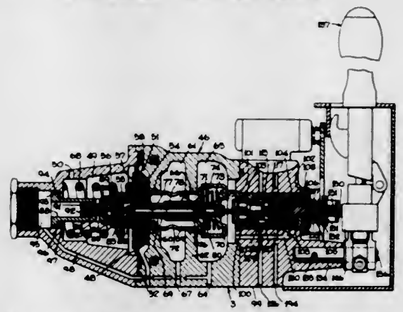
8. A device responsive to two limiting conditions comprising, in combination, a two terminal electric current source, a first electron discharge tube having a plate, cathode and control electrode, the cathode of said tube being connected to the first terminal of the current source, a relay having a field coil connected between the plate of said tube and the second terminal of the current source, said relay having at least one pair of switch contacts, one of said contacts being directly connected to the plate of said tube, means producing a voltage responsive to the condition to be controlled connected between the control electrode and cathode of said tube, a second electron discharge tube having a plate, cathode and control electrode, the plate of said tube being connected to the other contact of the relay, and the cathode being connected to the first terminal of the current source, and a second means producing a voltage responsive to the condition to be controlled connected between the control electrode and cathode of said tube.

2,667,179
BALL COCK
George R. Bennett, Waltham, Mass.
Application June 22, 1951, Serial No. 232,889
2 Claims. (Cl. 137—437)



2. A ball cock having in combination a feed tube, a discharge pipe, a float-actuated valve member, a valve body engaging the inside of the feed tube and the outside of one end of the discharge pipe and holding the two tubes in concentric relation, such body having a valve seat normally closed by the end of the valve member and a plurality of radial ports normally closed by the sides of the valve member and discharging liquid from the feed tube against the inner wall of the discharge pipe above the level of the valve seat, and a washer on the feed tube engaging the other end of the discharge pipe confining it against endwise movement.

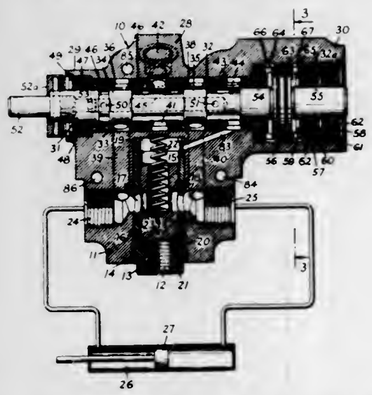
2,667,180
CONTROL VALVE DEVICE
Arthur J. Bent, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application June 15, 1948, Serial No. 33,044, which is a division of application Serial No. 762,771, July 22, 1947, now Patent No. 2,608,052, dated August 26, 1952. Divided and this application January 23, 1951, Serial No. 207,337
3 Claims. (Cl. 137—622)



1. A fluid pressure control valve device comprising a casing, a fluid pressure controlling as-

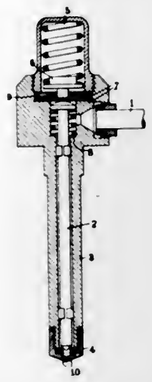
semblage in said casing comprising a movable abutment subject on one side to pressure of fluid in a pressure control chamber, a regulating spring opposing pressure of fluid in said chamber on said abutment, said assemblage further comprising a sleeve carried by said abutment and projecting into another chamber, a valve in said other chamber cooperative with the end of said sleeve to control a fluid flow communication to said other chamber, a piston of the same area as the end of said sleeve associated with said abutment at the opposite side thereof, said casing cooperating with said piston to form a balancing chamber at the outer face thereof, and means opening said balancing chamber to said other chamber.

2,667,181
SLIDE SELECTOR VALVE
Benjamin N. Ashton and Eugene V. Barkow, Kingston, and John P. Frain, Mount Tremper, N. Y., assignors to Electrol Incorporated, Kingston, N. Y., a corporation of Delaware
Application December 3, 1947, Serial No. 789,504
3 Claims. (Cl. 137—622)



1. A selector valve comprising a casing having a bore therein and a fluid pressure port, a return port and a pair of connection ports, said pressure port, return port and connection ports being connected to said bore by passages spaced apart longitudinally of said bore, the passage from said pressure port being located between the passages from said connection ports, and said return port passage being on the opposite side of one of said connection port passages from said pressure port, a slide valve member in said bore having spaced apart valve elements thereon and a passage therethrough for selectively closing said connection port passages, said slide valve being movable axially of said bore to selectively connect one of said connection port passages to the pressure port passage and the return passage to the other connection port, means forming a cylinder in said bore, a piston on said slide valve member movable in said cylinder, an enlargement on one side of said casing adjacent to said cylinder, substantially parallel passage means in said enlargement connecting a portion of said cylinder on one side of said piston to a portion of the cylinder on the other side of said piston, and opposed check valves in said passage means, each of said check valves having a leak port therethrough for retarding flow of fluid from one side of said piston to the other and means connecting said passage means to a source of supply consisting of a connection to said return port.

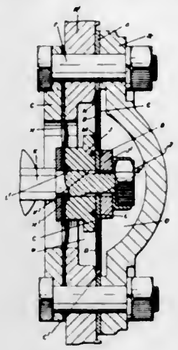
2,667,182
PRESSURE-RESPONSIVE MEMBRANE AND MOVEMENT LIMITING MEANS THEREFOR
Georges Levesque du Rostu, Paris, France, assignor to Societe Anonyme Andre Citroen, Paris, France
Application May 26, 1948, Serial No. 29,273
Claims priority, application France June 5, 1947
2 Claims. (Cl. 137—788)



1. A membrane fuel injector having in combination a needle-guiding body provided with a longitudinal hollow duct and with an annular flat surface around the entrance of said duct at one end thereof, a pressure-responsive membrane constituted by multiple thin and plane piled up metal discs, each of said discs having a uniform thickness of the order of some hundredths of a millimeter, one face of said membrane being in resting contact with said annular surface, and a clamping member fixed to said needle-guiding body and having a resting contact with the outermost annular portion of the other face of the membrane, said clamping-member having in front of the membrane a concave face so designed as to provide a rest for said membrane when this latter is being deformed.

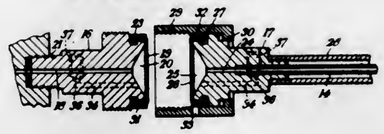
2,667,183
FLEXIBLE PRESSURE-RESPONSIVE DIAPHRAGM
Reginald Stanley Emerson, London, England, assignor to D. Napier & Son Limited, London, England, a company of Great Britain
Application December 7, 1951, Serial No. 260,348
Claims priority, application Great Britain January 3, 1951
3 Claims. (Cl. 137—788)

2. Fluid pressure responsive apparatus comprising a high pressure and a low pressure chamber, a flexible diaphragm extending and constituting a dividing wall between the high pressure and low pressure chambers and comprising a rigid annular rim portion, a rigid central portion concentric with but spaced from the rim portion, and an annular intermediate flexible portion extending between the rim and central portions, this intermediate flexible portion being constituted by a series of separate radially extending sections of rigid material spaced by narrow annular gaps from the central and rim portions, each section subtending a relatively small angle at the centre of the diaphragm and the sections being separated from one another by narrow slit-like radial gaps, and impervious flexible sheet material extending between and making a fluid tight junction with the inner edge of the rim portion and the outer edge of the central portion and lying in contact with the faces of the radially extending sections adjacent to the high pressure chamber so as to provide an impervious seal covering and extending into the gaps between the radially extending sections and between these sections and the rim and central portions, said



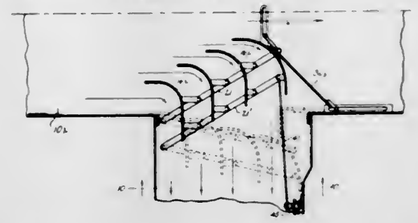
flexible impervious material being bonded to the parts over which it extends, a control member connected to the central portion, and annular fulcrum surfaces in the low pressure chamber and respectively rigid with the walls of the chamber and the control member on which fulcrum surfaces can rest and pivot respectively the outer and inner ends of the radially extending sections.

2,667,184
HYDROSTATIC COUPLING
Albert Henry Haller, Isleworth, and Frank Stanley Saunders, London, England; said Haller assignor to Alltools Limited, Brentford, England
Application October 28, 1952, Serial No. 317,188
Claims priority, application Great Britain February 5, 1952
4 Claims. (Cl. 137—791)



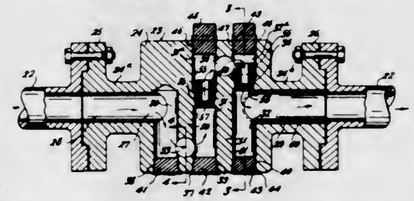
1. In a conduit for transmitting hydrostatic pressure, the combination of two separable conduit members each having a spigot end, the spigot end of each conduit member having a narrow bore and a wider recess communicating with said bore, a pair of flexible diaphragms, each diaphragm covering one of said spigot ends and having a body portion covering and sealing the recess in said spigot end and having a cylindrical peripheral portion extending axially of said spigot end in contact with the outer wall of said spigot end and terminating in an enlarged bead accommodated in the circumferential retaining groove in said outer wall, said bead constituting the sole means for securing said diaphragm to said spigot end when said conduit members are separated, a detachable coupling member fitted over the ends of said conduit members to couple them together end to end with the body portions of said diaphragms in close abutment, and spacing means between said coupling member and the cylindrical portions of said diaphragms for relieving the diaphragms of clamping pressure, said spacing means and coupling member permitting of escape of air from between said diaphragms during coupling of said conduit members.

2,667,185
FLUID DIVERTER
James L. Beavers, Yakima, Wash.
Application February 13, 1950, Serial No. 143,927
1 Claim. (Cl. 138—37)



The combination with a main duct for flow of a stream of fluid medium, and a lateral duct leading from the main duct and means for diverting the medium from the main duct into the lateral duct, said means comprising upper and lower pairs of spaced, parallel links disposed transversely of the lateral duct at the entrance thereof and with ends at one side of the duct pivotally mounted to permit the pairs of links to swing into and from the main duct, and a plurality of curved diverter fins extended between the upper and lower pairs of links in succession and spaced at intervals progressively decreased from the pivoted ends of the parallel links, each fin pivotally attached at its end edges to the paired links, and each fin having a leading edge directed toward and parallel with the flow of medium in the main duct, and a trailing edge directed into the lateral duct, said fins being spaced along the links with their leading edge portions overlapped one with the other to close the entrance to the lateral duct when the links are swung into the lateral duct and adapted to open apart to progressively decreased intervals of space incident to the swinging of the links into the main duct.

2,667,186
FLOW CONTROL DEVICE
Charles W. St. Clair, Painesville, Ohio, assignor to The Coe Manufacturing Company, Painesville, Ohio, a corporation of Ohio
Application February 8, 1949, Serial No. 75,258
1 Claim. (Cl. 138—42)



A flow control device for a liquid under pressure having corrosive or erosive properties comprising, a metal body having a single continuous passage extending in circuitous relation therethrough and including an axial outlet passage portion and a plurality of serially connected transverse passage portions of which the final

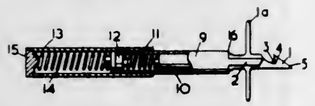
transverse passage portion is intersected at substantially right angles by said outlet passage portion, orifice members mounted in said body internally thereof and defining permanently open flow restrictions in certain of said transverse passage portions including said final transverse passage portion, the orifice member of said final transverse passage portion being located therein at a point which is upstream from the intersection of said outlet passage portion therewith, and preformed single-thickness substantially cylindrical lining sleeves disposed in and lying against the internal walls of said outlet passage portion and said final transverse passage portion and being respectively of substantially the same length as said outlet passage portion and the portion of said final transverse passage portion which is downstream from the orifice member thereof, said lining sleeves having notched end and side portions respectively in complemental interfitting engagement and defining a passage junction such that said lining sleeves form a single-thickness substantially continuous lining for substantially the entire wall surface of said outlet passage portion and for substantially the entire wall surface of said downstream portion of said final transverse passage portion, said lining sleeves being formed of a metal which is harder than the metal of said body and being effective to shield the wall of said outlet passage portion and the wall of said downstream portion of said final transverse passage portion from the corrosive or erosive action of said liquid.

2,667,187

YARN CUTTING ARRANGEMENT IN AUTOMATIC LOOMS

Sidney Jefferson, Malvern, England, assignor to National Research Development Corporation, London, England, a British corporation

Application June 12, 1951, Serial No. 231,177
Claims priority, application Great Britain June 16, 1950
33 Claims. (Cl. 139—263)



1. A yarn cutting arrangement of the kind referred to comprising a hook member adapted to engage in its hook the yarn to be cut, a non-cutting member comprising a longitudinal member adapted to move longitudinally along one side of the hook and on encountering the engaged yarn to hold it against the hook, and a cutting member adapted to move longitudinally along the other side of the hook and on encountering the yarn to cooperate with the hook in a shear action to cut the yarn.

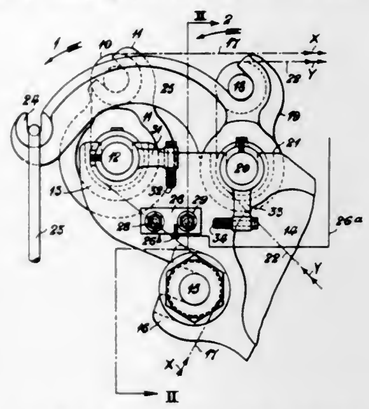
2,667,188

LOOM FOR WEAVING TUFTED PILE FABRICS

Isaac B. Bassindale, Grasscroft, near Oldham, England, assignor to Platt Brothers and Company Limited, Oldham, England

Application May 31, 1950, Serial No. 165,187
Claims priority, application Great Britain June 3, 1949
3 Claims. (Cl. 139—352)

1. The combination with a yarn beam let-off motion for a spool Axminster carpet loom having a frame, a driving motor, a chain-warp shaft and a rocker shaft therefor, a stuffer-warp shaft and a rocker shaft therefor, a clutch, a starting handle and a brake, of electric stop motion means embodying a low voltage electric circuit, said means including a fixed metal contact plate, an insulation piece interposed between said metal plate and the loom frame, insulation bushes in said metal plate and screws screwing through said insulation bushes to secure said metal plate to the loom frame, whereby the metal plate is held to but insulated from the loom frame, the metal plate forming one contact terminal in the low-voltage circuit of the electric stop motion means, a metal plate secured to the end of the



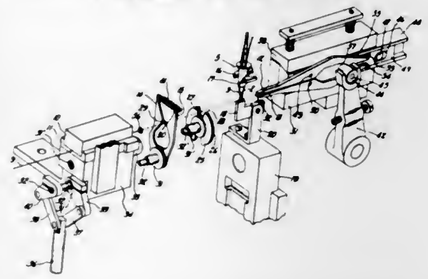
rocker shaft of the chain-warp shaft of the loom, a contact terminal screw slidably mounted in said last-mentioned plate, a spring surrounding said screw between the head of the screw and the said metal plate, a further metal plate secured to the end of the rocker shaft of the stuffer-warp shaft of the loom, a contact terminal screw slidably mounted in said last mentioned plate, and a spring surrounding said screw between the head of the screw and the metal plate, either of said terminal screws serving as the second terminal in the said low-voltage circuit.

2,667,189

METHOD AND APPARATUS FOR MOUNTING FILAMENT WIRE

John Flaws, Jr., East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York

Application April 20, 1950, Serial No. 157,050
7 Claims. (Cl. 140—71.6)



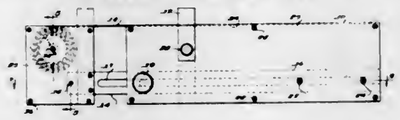
1. The method of mounting a filament wire upon spaced metal conductors each conductor having a laterally projecting lip, which comprises first arranging spaced portions of the filament wire in contact with portions of the conductors adjacent to but spaced slightly from the projecting lips thereof, then effecting a relative movement of the conductors and the filament wire to slide said portions of said filament wire along the conductors to positions behind the lips, and clamping the lips tightly against the filament wire portions and the adjacent conductor portions to cause the filament wire to be attached to said conductors.

2,667,190

QUICK SET EXTENSION GAUGE

Clarence Boyd Delano, Bristow, Okla., assignor of one-half to John L. Kohler, Bristow, Okla.

Application October 31, 1951, Serial No. 254,014
1 Claim. (Cl. 143—174)



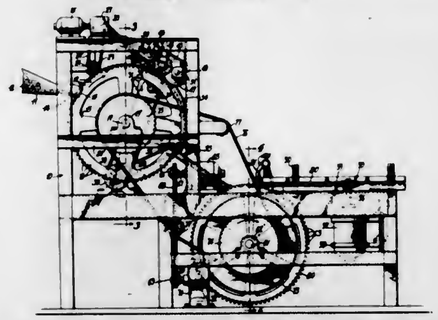
In a quick set extension gage, a base of rectangular shape, a head spaced from said base and arranged in the same plane therewith, said head being provided with a cavity, a pin extending through said cavity, a spool journaled on said pin and positioned in said cavity, a spring actuated graduated tape mounted on said spool, there being a pair of spaced parallel slots in a surface of said base, a bar having one end secured to said head and said bar including a pair of spaced parallel legs slidably mounted in said slots, said legs defining a longitudinally extending channel therebetween, a thumb screw arranged in threaded engagement with said base and including a knurled outer head, said screw extending through said channel and including a hub abutting the outer surface of said bar, there being a plurality of threaded openings in said base for receiving securing elements for securing said base to a mitre gage, a face plate secured to the rear face of said base and provided with an opening for receiving the hub of said thumb screw, a stop member adjustably connected to said base, a face plate secured to said head, there being a groove in the upper surface of said base for receiving said tape.

2,667,191

CLOTHESPIN MAKING MACHINE

Hillman A. Lisherness, North Anson, Maine, assignor, by mesne assignments, to Forster Mfg. Co., Inc., a corporation of Maine

Application January 14, 1949, Serial No. 70,986
7 Claims. (Cl. 144—9)



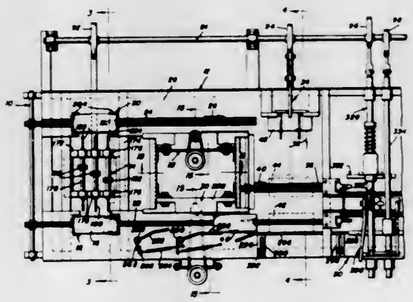
1. A machine for making turned articles from stock pieces comprising, rotary driven carrier means having a plurality of slotted seats for positioning stock pieces in single aligned series thereon, said carrier means being driven to continuously advance said pieces in a curvilinear path, continuously driven shaper means having a rotary cutter head disposed adjacent said path and within the periphery of the carrier to successively engage exposed surfaces of said stock pieces projecting through the slots in said peripheral seats and thereby to shape the pieces as said carrier means are rotated, means for retaining said pieces disposed in said seats when positioned adjacent said cutter head, and means engaging an outwardly disposed surface of said stock pieces when in engaging relation with said cutter head to rotate said pieces within their seats in the carrier.

2,667,192

DOWEL PINNING MACHINE

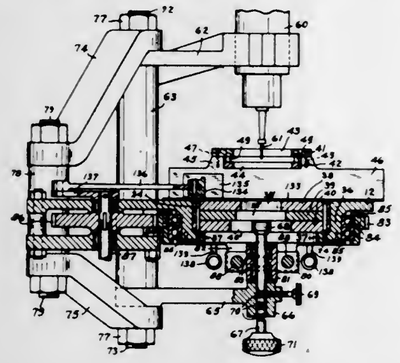
Kervin D. Revell, Wauchula, Fla.

Application April 9, 1951, Serial No. 220,077
9 Claims. (Cl. 144—31)



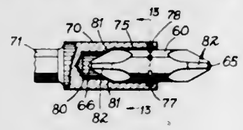
1. In a dowel pinning machine, a support platform, a pair of spaced vertical block feeding chutes on the platform, a pair of spaced parallel endless conveyor chains mounted on the platform and extending below the chutes for moving a pair of blocks along parallel paths on the platform, spaced and staggered block engaging means on the pair of chains for alternately engaging blocks at the bottom of the chutes and removing the blocks therefrom, drilling means disposed between the chutes and movably mounted for movement between the chutes for selectively drilling dowel pin receiving openings in the adjacent sides of blocks in the chutes, means for reciprocating the drilling means in timed relation to the movement of the block engaging means, a further endless conveyor chain arranged parallel to and spaced from one of the pair of conveyor chains, spaced block engaging means on the further conveyor disposed in transverse alignment with respect to the spaced block engaging means on the other of said pair of conveyor chains whereby the openings in blocks engaged thereby are in alignment, and means operating in timed relation to the movements of the block-engaging means on said one conveyor chain to move a block engaged thereby from such engagement and into the travel path of the block engaging means of the further conveyor, whereby the individual blocks of a series of pairs of blocks are sequentially drilled and the blocks of each pair of blocks moved along parallel paths with the drilled openings therein in alignment.

2,667,193
MACHINE FOR MAKING PLYWOOD PATCHES OR PIECES OF PREDETERMINED SHAPE
Charles A. Sherman, Tacoma, Wash., assignor to Weyerhaeuser Timber Company, Tacoma, Wash., a corporation of Washington
Application October 7, 1948, Serial No. 53,248
14 Claims. (Cl. 144—142)



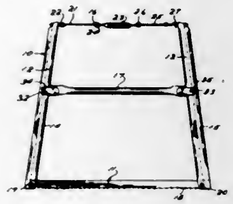
1. In a routing machine, a plurality of cams; a U-shaped bracket supported for swinging movement; a roller adjustably carried by said bracket and selectively guided by one of said cams; a driven routing tool carried by said bracket; means operable to adjust said roller for engagement with different cams; means operable to feed sheet material between said driven routing tool and said cam; and means operable to apply said sheet material to said driven routing tool.

2,667,194
COMPOSITE BIT SCREW DRIVER
Harry G. Fischer and Le Roy J. Wendling, Dayton, Ohio, assignors to The Apex Machine & Tool Company, Dayton, Ohio, a corporation of Ohio
Application May 24, 1950, Serial No. 164,002
1 Claim. (Cl. 145—50)



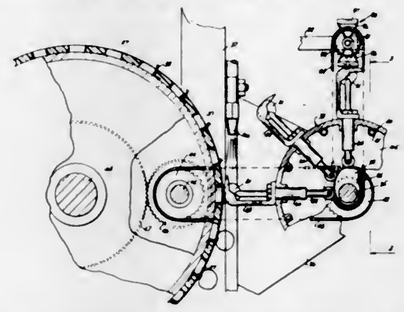
A composite bit for use with a screw having a bit-receiving recess tapered and shaped to receive with a snug driving fit the working point of a bit having driving wings, comprising a bit holder including an annular end portion forming a socket of polygonal cross-section, a bit of cross sectional configuration providing for driving engagement thereof in said polygonal socket, a working end on said bit including tapered wings formed for said snug driving fit within said recess of said screw, shoulders adjacent the other end of said bit tapered in the opposite direction from and at substantially the same angle as said wings, said bit having peripheral notches at a point thereon intermediate said ends thereof, resilient retaining means within said socket for engagement in said notches to effect releasable locking of said bit in said socket with said working end exposed, the cross-section of said bit being less by a predetermined small amount than the cross-section of said socket to provide for corresponding limited axial misalignment of said bit in said socket with said retaining means engaged in said notches while maintaining proper driving of said bit and proper fit of said working point in said recess in said screw, tapered seats within said socket proportioned to engage only the radially outer portions of said shoulders on said bit, said socket extending axially inwardly beyond said seats to receive the shouldered end of said bit of lesser radius than said seats, said seats being spaced axially beyond said retaining means by a greater distance than the spacing on said bit of said notches from said shoulders to cause said bit to be held normally by said resilient means with said shoulders spaced from said seats while providing for seating of said shoulders on said seats upon movement of said bit into said socket under working pressures sufficient to cause partial disengagement of said retaining means from said notches, and said seats being tapered at substantially the same angle as said shoulders to provide for firmly seated engagement of said shoulders on said seats without relative wedging thereof upon said movement of said bit into said socket under said working pressures.

2,667,195
FOLDABLE BUCKSAW AND CASE THEREFOR
Edwin R. Kilmer, Johnstown, N. Y.
Application April 29, 1952, Serial No. 285,004
1 Claim. (Cl. 145—32)



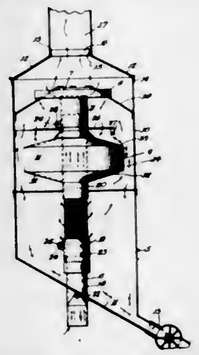
A foldable saw assembly comprising an elongated compression bar, elongated end members disposed one at each end of said compression bar and each detachably connected intermediate its length of said compression bar, a saw blade disposed between said end members substantially parallel to said compression bar and pivotally connected at its respectively opposite ends to the corresponding ends of said end members, and an adjustable length tension linkage disposed between said end members at the side of said compression bar remote from said saw blade and having one end pivotally connected to the end of one of said end members remote from said blade and having the other end detachably connected to the end of the other of said end members remote from said blade, said end members and said saw blade being of substantially the same length and said end members having longitudinally extending grooves therein receiving said saw blade when said end members are disconnected from said compression bar and said tension linkage and folded relative to said blade about the connections between said end members and said saw blade, one of said end members having its blade receiving groove in the edge thereof nearest the adjacent end of said compression bar and the other of said end members having its blade receiving groove in the edge thereof remote from the adjacent end of said compression bar and each of said grooves having a depth substantially equal to one half the width of said saw blade.

2,667,196
METHOD AND APPARATUS FOR STEMMING AND FOR PITTING CHERRIES AND THE LIKE
John G. Aguilar and William A. Cox, San Francisco, Calif.
Application January 30, 1950, Serial No. 141,322
5 Claims. (Cl. 146—17)



1. The method of pitting and stemming cherries that comprises the steps of moving said cherry in one direction along a predetermined path of travel, gripping the stem of said cherry at a point in said path and suspending said cherry from said stem during said movement and continuing said movement of the said cherry along said path suspended from said stem, then aligning the portion of said stem adjacent said cherry with the stem-blossom axis by pulling said cherry and said stem oppositely relatively, pushing on the blossom end of said cherry at a point on the stem-blossom axis while said stem is so aligned and continuing said pulling until said stem is removed, and thereafter pushing the pit of said cherry out of the stem end of said cherry along a line coaxial with the stem-blossom end of said cherry.

2,667,197
GRAIN HULLING APPARATUS
John E. Giles, Lockport, Ill.
Application May 13, 1950, Serial No. 161,782
8 Claims. (Cl. 146—253)



1. A grain hulling apparatus comprising a vertically elongated casing consisting of a continuous side wall, a bottom wall, and a top wall with an outlet in the central portion thereof, a horizontally extending disc-like anvil positioned in the casing a small distance beneath the outlet and having a flat bottom surface, a vertical duct of circular cross section extending upwards through the bottom wall of the casing, having the lower end thereof connected to receive a stream of grain to be hulled and air under pressure and its upper end positioned concentrically with respect to the anvil but terminating a small distance beneath said bottom surface thereof, and adapted to guide the stream upwards so that the kernels of grain are impacted against the bottom surface of the anvil for hull releasing purposes and then deflected outwards by said bottom surface and the air under pressure impinges against and is outwardly deflected by the bottom surface of the anvil and then entrains the removed hulls and flows upwards with the latter through the outlet, and an imperforate horizontally extending baffle ring of materially greater diameter than the anvil and of uniform diameter from end to end positioned concentrically with respect to the anvil and the duct, extending completely around the space between the anvil and the upper end of said duct, having the upper end thereof surrounding but spaced from the anvil and its lower end surrounding but spaced from said upper end of the duct, and adapted to arrest the outwardly deflected hulled kernels so that they gravitate onto the casing bottom wall, the space between the bottom surface of the anvil and the upper end of the baffle ring being free or unobstructed in order that the air under pressure after impinging against and being deflected by said bottom surface is permitted to flow directly upwards therethrough with the entrained hulls.

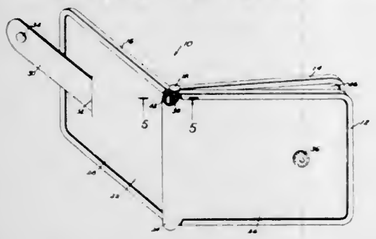
2,667,198
RECEPTACLE
Walter L. Klein, Chicago, Ill.
Application January 26, 1951, Serial No. 207,942
1 Claim. (Cl. 150—2.1)



A bag of the class described comprising an inner envelope in the form of a single segment of flexible material folded back on itself and formed with flared ends defining a flared mouth, air tight seams along the lateral edges of said envelope, an outer envelope in the form of a substantially rectangular segment of flexible material folded back on itself and seamed along its lateral edges, the ends of said second mentioned segment having flaps extending into said mouth, said flaps extending substantially from one side to the other of said first mentioned segment and sealed thereto, an insulator envelope disposed between said inner and outer envelopes and stitched to said inner envelope, said insulator envelope being provided with a lip on one side and an extended edge on the other side, said lip and edge extending beyond the stitched connec-

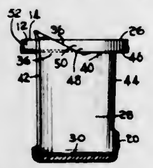
tion to the inner envelope, the said lip overlapping said extended edge when the bag is closed, and a slide fastener device sealed to the flaps of the outer envelope for opening and closing the bag.

2,667,199
COMBINATION PURSE OR POCKETBOOK
Simon Knee, Newark, N. J.
Application June 3, 1949, Serial No. 97,000
4 Claims. (Cl. 150—35)



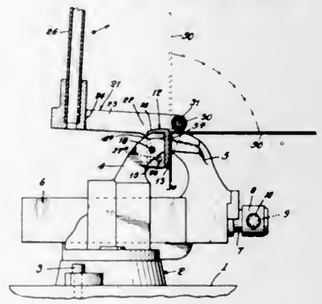
1. A pocket-book or purse having three hinged U-frames which define the top and opposite side edges of the pocket-book, the legs of said frames being substantially of the same length as the side edges of the pocket-book, a flexible covering formed of pliable material secured to the two outer frames, said covering being formed of a blank which is wider than said frames whereby the securement of the opposite marginal side edges of the blank to the legs of said frames results in expanding the covering outwardly beyond the outer sides of the outer frames, respectively, the covering at each side of the pocketbook extending from the cross members of said outer frames to a point outwardly beyond the hinged ends of the legs of said frames and terminating at said point, a lining member secured to the inner frame and extending from the cross-member thereof to the hinged legs thereof, said lining member being substantially of the same width as said inner frame, and article-holding means attached to said covering on the inner side thereof, and additional article-holding means attached on both sides of said lining member, all of said article-holding means being disposed in the space between the frame covering when the pocket-book is closed.

2,667,200
FASTENING DEVICE
William A. Bedford, Jr., North Scituate, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application July 19, 1951, Serial No. 237,551
4 Claims. (Cl. 151—41.75)



1. A fastener for snapping engagement into an opening in a panel so as to be non-rotatable therein, said fastener comprising a substantially cylindrical, hollow sheet metal body having an open end and a closed entering end having means therein for engaging a connecting member, the open end portion of said body being divided into a plurality of tongue portions separate from each other and connected to the body, the free ends of at least two opposed tongue portions having integral portions flanged outwardly to provide bearing surfaces against the front face of a panel securing the fastener thereto, each of the free ends of at least two of the remaining opposed tongue portions having a snap shoulder portion substantially perpendicular to the axis of the body and a cutting end portion extending therefrom, each shoulder portion being intermediate the ends of the body, each cutting end portion being inclined axially and outwardly from the shoulder portion and being disposed tangentially in relation to the body to extend across and bear against the rear edge of the wall of the opening when the fastener is assembled therein, said snap shoulder portion being flared outwardly from the cutting end portion to snap through the opening and bear against the rear side of the panel.

2,667,201
BENDING BRAKE ATTACHMENT FOR VISE JAWS
Peter Kilham, Plainville, Mass.
Application April 28, 1950, Serial No. 158,775
2 Claims. (Cl. 153—15)

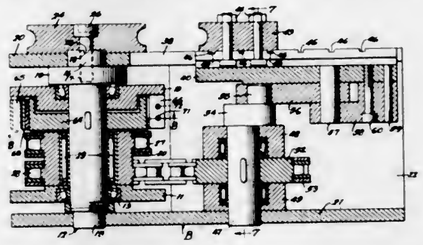


1. In a demountable bending brake structure, a brake base having a front portion formed to engage and conform to the front surface of a vise member, a top portion adapted to engage and conform to the upper surface of the vise member, end portions spaced laterally from the ends of said vise member, locking elements adapted to extend between said end portions and the end surfaces of the vise member, a yoke pivoted on said brake base for rotation about a center positioned substantially below the top of the vise member and at a greater distance below said top member than said locking elements, and a transverse material engaging member on said yoke movable, in response to rotation of said yoke, through a path extending above and across the gripping face of said front portion and the adjacent gripping face of a relatively movable second vise member.

2,667,202
AUTOMATIC BENDING MACHINE
Andrew L. Froedge, Oak Lawn, Ill.
Application September 12, 1952, Serial No. 309,268
5 Claims. (Cl. 153—40)

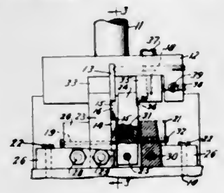
1. In an automatic bending machine, the combination of a frame, a main shaft carried by said frame having a coaxially aligned die wheel affixed to a projecting end thereof, two rigidly connected sprockets rotatably mounted on said main shaft, means for driving one of said sprockets

for a part of a revolution first in one direction and then in the other, a hollow case pivotally supported on said main shaft and projecting laterally therefrom, said case providing a bearing plate inwardly of said die wheel having a slot therein extending outwardly from said die wheel, an auxiliary shaft rotatably mounted in said case in spaced parallel alignment with said main shaft and having its upper end terminating at a spaced



distance from said slot, a sprocket wheel rigidly mounted on said auxiliary shaft, chain means drivably connecting said auxiliary shaft sprocket with the other sprocket on said main shaft, a clamping die slideably mounted on said bearing plate over said slot therein in alignment with a clamping face of said die wheel, and crank means connecting said upper end of said auxiliary shaft with said clamping die through said slot for advancing and retracting said clamping die.

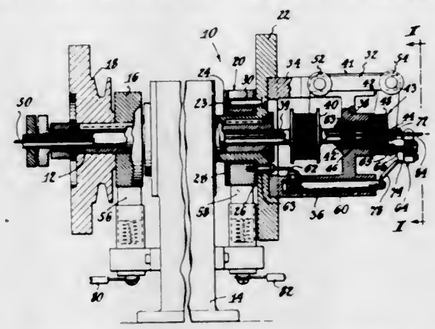
2,667,203
APPARATUS FOR MAKING TERMINAL STRIPS
Jerome J. Kurland, Chicago, and Joseph J. Kurland, Glencoe, Ill.
Application August 17, 1951, Serial No. 242,232
9 Claims. (Cl. 153—49)



1. Apparatus for forming a cylindrical head on a flat terminal strip, comprising semi-cylindrically recessed mating dies, a movable ram carrying one of said dies toward and away from the other die, guide plates flanking the dies with at least one of said plates being movable toward and away from the dies, and means for moving said one guide plate into firm engagement with said dies whenever the mating dies are closed.

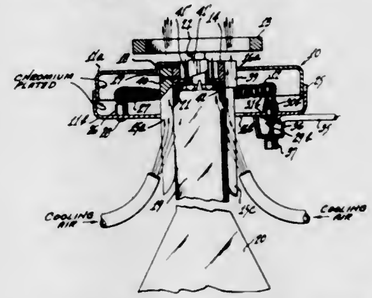
2,667,204
COILING HEAD ASSEMBLY
Gordon H. Jaycox, Passaic, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 29, 1952, Serial No. 279,307
2 Claims. (Cl. 153—67)

1. In combination a coiling head assembly for providing one side of a bridge pin assembly supply circuit comprising at least a coiling head spindle, a collector ring and a fly-wheel on said spindle, a wire guide extension arm on said flywheel, a die holder assembly on said extension arm and the other side of said circuit comprising a second collector ring on and insulated from said spindle and means for connecting



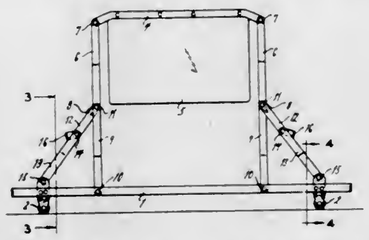
said second ring to a bridge pin assembly, and an electrically heated bridge pin assembly on said die holder assembly.

2,667,205
HEATING UNIT FOR CEMENTING BASES TO ELECTRON TUBES
Morris R. Weingarten, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application February 28, 1951, Serial No. 213,134
9 Claims. (Cl. 154—42)



1. A heating unit for cementing together two parts of an electrical device, comprising a housing, heating means inside said housing, holder means on said housing forming a seat for one of said parts, and aligning means adjacent said holder means adapted to guide the other of said parts into contact with said one of said parts when seated in said holder means.

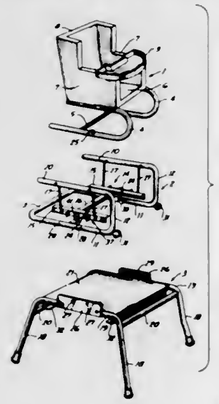
2,667,206
BABY WALKER
Matilda D. Welsh, Ladue, Mo.
Application August 17, 1950, Serial No. 180,053
7 Claims. (Cl. 155—22)



4. In a baby walker of the character described, comprising, a seat frame, a base frame mounted

on casters, a leg supporting said seat frame on said base frame, said leg being formed of a pair of sections joined by a pivot to form a toggle, one end of which is pivoted to one side of said seat frame and the other end to said base frame, a member connected to one of said sections and extending crosswise of said base frame, said member providing a stop to lock said toggle against pivotal movement in one direction, and a second toggle providing a brace connecting said pivot to said base frame to sustain said leg in extended position.

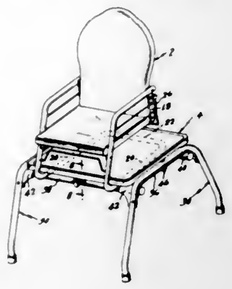
2,667,207
CHAIR AND TABLE COMBINATION
John Andrew Magyar, Maple Heights, Ohio
Application June 14, 1950, Serial No. 168,010
8 Claims. (Cl. 155—39)



1. In combination, a table having its top at a conventional level above the floor for a small child, a chair having its seat at a matching level relative to the level of the table top when the chair is supported on the floor, an elevating adapter supported on the table and detachably connected thereto and extending above the level of the table top and detachably connected to the chair and supporting the chair with the chair seat above the level of the table top at the conventional high chair level above the floor, said adapter comprising a main frame resting on and detachably connected to the table, a chair supporting frame detachably connected to the chair for supporting the chair, and connecting means connected to the main frame and to the chair supporting frame and suspending the chair supporting frame from the main frame for oscillation of the chair supporting frame relative to the main frame in a direction forwardly and rearwardly of the chair.

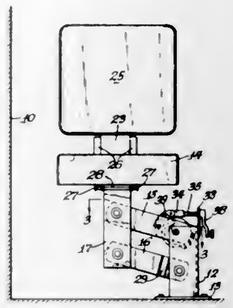
2,667,208
COMBINED CHAIR AND TABLE
John N. Whalen, Whitinsville, Mass., assignor to Frank A. Bronzo, Arlington, Mass.
Application December 15, 1951, Serial No. 261,768
5 Claims. (Cl. 155—39)

1. An article of furniture comprising a table, the table having leg members of substantially inverted U shape at each side, cross bars extending between and secured to the leg members at the front and rear of the table, a table top pivotally mounted on the rear cross bar, a spring catch comprising two cooperating parts secured respectively to the table top and the front cross bar to secure the table top to the front cross bar, the table top, when in normal position, being spaced from the cross bars, and a chair member comprising a seat, a pair of vertically extending side frame members extending below the seat, horizontal runners formed on the lower ends of



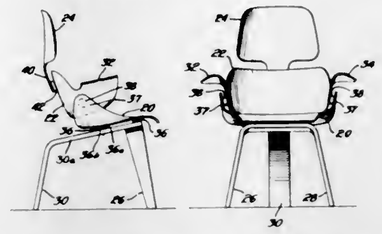
the side frame members, said runners being adapted to rest upon the cross bars of the table when the chair is assembled on the table, and locking means carried by one of the cross bars and engaging the runners to prevent displacement of the chair.

2,667,209
RESILIENTLY SUPPORTED LOCOMOTIVE SEAT
Ralph W. Gundersen, St. Paul, Minn., assignor to Coach & Car Equipment Corporation, Chicago, Ill., a corporation of Illinois
Application December 6, 1950, Serial No. 199,520
12 Claims. (Cl. 155—51)



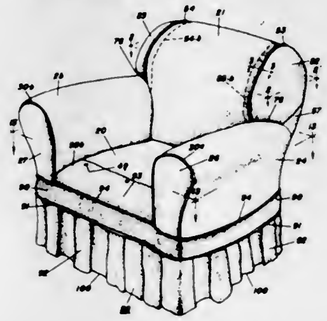
1. A yielding seat structure, comprising in combination, a standard having a lateral side face, upper and lower arms of slightly different lengths pivotally mounted on said standard and extending transversely of said lateral side face, a seat supporting member pivotally mounted on the outer ends of said arms so as to move upwardly and downwardly therewith by a substantially rectilinear translation movement, the said arms of different lengths serving to tilt the seat support so as to minimize lateral swaying of the seat during the arcuate movements of the said arms, and yielding means connected with one of said arms adapted by its torsional strength to hold said seat member yieldingly at a selected level with respect to said standard, and means manually adjustable for varying the torsion of said yielding means.

2,667,210
CHAIR CONSTRUCTION WITH RESILIENTLY MOUNTED SEAT AND BACK
Charles Eames, West Los Angeles, Calif., assignor, by mesne assignments, to Herman Miller Furniture Company, Zeeland, Mich., a corporation of Michigan
Application March 1, 1947, Serial No. 731,818
7 Claims. (Cl. 155—53)



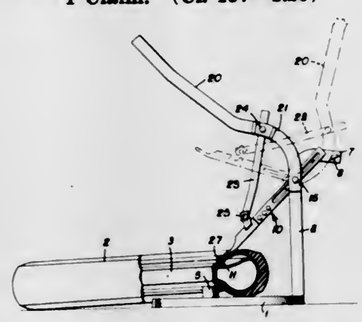
3. In a furniture construction of the character described, a unitary panel having two forwardly extending side portions and a vertically extending back portion, a supporting frame, two vertically disposed side supporting members disposed respectively adjacent said two side portions, means supporting said members on said frame, and rubber-like torsion blocks bonded between each side portion and adjacent side supporting member to support said panel upon said side supporting members; the bonded surfaces of said blocks being relatively extensive in area and substantially parallel, and said blocks having substantially a common axis substantially perpendicular to said bonded surfaces, whereby said panel is pivotally mounted with respect to said side supporting members; a second vertically disposed panel, a rubber-like block bonded between and connecting said two panels to resiliently and yieldably support said second panel from said first panel, said two side supporting members being part of a seat panel, and said means comprising rubber-like blocks bonded to said seat panel securing said seat panel to said supporting frame.

2,667,211
SLIP COVER FOR UPHOLSTERED FURNITURE
George S. Krasnov and Norman I. Krasnov, Melrose Park, Pa.
Application November 8, 1948, Serial No. 58,952
8 Claims. (Cl. 155—182)



4. A slip-cover for upholstered furniture having seat, arms and back, including a body portion and a skirt portion; said body portion comprising a seat panel, a front back-panel, a rear back-panel, front panels and arm-encasing portions, said front panels being attached to the forward edges of said arm-encasing portions, said seat panel being attached to the inner edges of said arm-encasing portions and to the lower edge of said front back-panel, the upper edge of said front back-panel being attached to said rear back-panel, the outer panels of said arm-encasing portions being attached at the rear edge to said rear back-panel, inner panels of said arm-encasing portions being unattached to said front back-panel, said front back-panel and arm-encasing portions having gaps therebetween providing juxtaposed unconnected free edges of said arm and front back-panels which may be tucked into the spaces between the arms and back of said piece of furniture, a stretchable self-contracting tensioning strap having its ends attached to said front back-panel and passing behind the back of said furniture so as to rearwardly tension said front back-panel, said skirt portion including a panel adapted to overlie the front portion of the seat of said furniture and detachably connected to said seat panel along a line spaced substantially inwardly from the front edge of said seat, said skirt adapted to extend around said furniture with one edge above the lower edge of said body portion and one edge below the lower edge of said body portion, and having free ends adjustably connected whereby to draw said skirt and the lower edge of said body portion closely adjacent said piece of furniture.

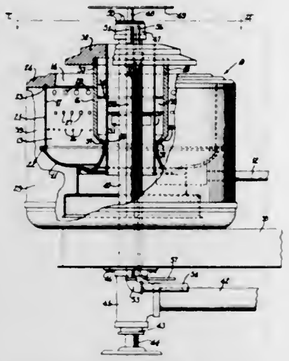
2,667,212
LEVER ACTUATED TIRE BEAD LOOSENING DEVICE
Dominic A. Zaffina, Pontiac, Mich., assignor to said Dominic A. Zaffina and Josephine F. Zaffina, Pontiac, Mich., jointly
Application January 22, 1952, Serial No. 267,563
1 Claim. (Cl. 157—1.26)



In a device for freeing the bead portion of a tire from the flanged edge of a rim, a base frame for positioning under a horizontally disposed tire and rim at one side thereof to support the same, a post rising from said base outwardly of the tire, a tire compression lever pivoted adjacent one end on said post for swinging into downwardly inclined position to engage its other end with the uppermost side wall of the tire adjacent the bead portion thereof, a hand lever pivoted on the pivot of said compression lever for downward swinging, a link having an upper end pivoted to said hand lever and a lower end pivoted to said compression lever between the pivot and said other end of the compression lever and extending at an angle from said compression lever and hand lever to exert downward pressure against said compression lever and swing the same downwardly when said hand lever is swung downwardly, and a longitudinal slot in said compres-

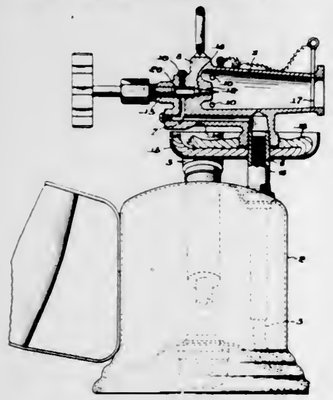
sion lever traversed by the pivot of said compression lever and slidably connecting said compression lever to its pivot for endwise sliding downwardly and inwardly under the rim flange upon downward movement of the hand lever.

2,667,213
COMBINATION GAS-OIL BURNER APPARATUS
Cyril Charles Young, Kansas City, Mo.
Application August 27, 1952, Serial No. 306,683
9 Claims. (Cl. 158—11)



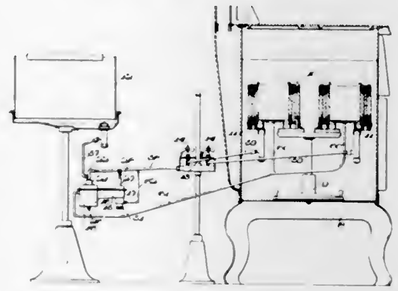
1. A combination gas-oil burner unit, comprising, a combustion chamber having a flame port, means supplying oil fuel to the combustion chamber, a pair of flame spreader plates adjacent said combustion chamber and disposed on respective parallel planes generally normal to the axis of said flame port, one of said plates adapted to spread the flames exiting the combustion chamber through said flame port, a gas nozzle positioned between said flame spreader plates, and means supplying gas fuel to said nozzle, the other of said plates adapted to spread the gas flames emanating from said nozzle.

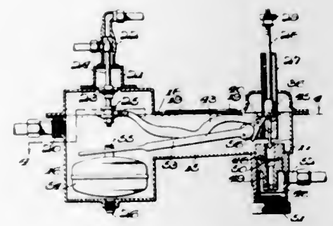
2,667,214
BLOWTORCH
Myer A. Silverman and Harry H. Sherman, Grove City, Pa., assignors to P. Wall Mfg. Company, Grove City, Pa., a corporation of Pennsylvania
Application April 8, 1952, Serial No. 281,083
2 Claims. (Cl. 158—33)



1. The combination with a fuel receptacle that functions as a pressure tank for supplying a torch head, and a conduit leading therefrom, of a barrel forming part of the torch head and extending forwardly, a rearwardly-extending passageway affording communication between the conduit and the rear end of the barrel, a valve controlling flow from the passageway into the barrel, a baffle member for removably closing the forward end of the barrel, to produce back pressure in the barrel, when the valve is opened, and a drip pan below the passageway and the barrel, for receiving priming fuel from the passageway, the passageway having a bleed port that discharges into the drip pan.

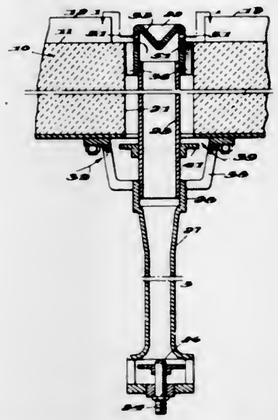
2,667,215
AUTOMATIC FEED LINE CUTOFF AND DRAIN FOR OIL BURNERS
Donald E. Pressey, Stillwater, and Joseph M. Conley, Orono, Maine
Application June 20, 1950, Serial No. 169,154
9 Claims. (Cl. 158—42.3)





1. In a feed system for an oil burner, an oil supply tank, a feed line arranged to conduct oil from the tank to the burner, a shut-off device including a shut-off valve interposed in the feed line, an overflow line extending between the burner and said device and arranged to drain excess oil from the burner into said device, valve-closing means carried by said device and operatively connected with said valve, said valve-closing means being adapted to be set and being operable when released to force said valve closed and having a portion disposed to be grasped for manually actuating said means when released to open and close said valve, and float operated means mounted in said device and operable by the rise of the level of oil therein for releasing said valve-closing means, said closing means when released being movable to close said valve without disturbing the position of said float operated means and said float operated means being adapted to maintain said closing means released for free manual manipulation to open and close said valve while the position of said float operated means remains undisturbed.

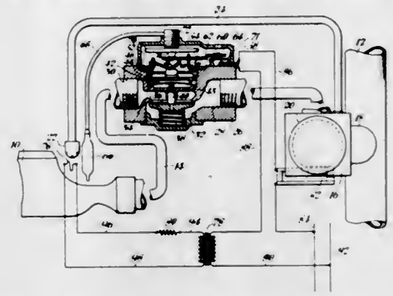
2,667,216
RADIANT GAS BURNER ASSEMBLY
John S. Zink and Robert D. Reed, Tulsa, Okla.; said Reed assignor to said Zink
Application May 18, 1951, Serial No. 227,071
5 Claims. (Cl. 158—113)



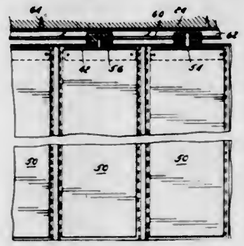
5. A burner assembly for gaseous fuel comprising, a ceramic member having a flat front face, said member having an opening in a central portion thereof, a burner nozzle mounted within said opening, a plurality of ribs formed of ceramic material carried by said member on the front face thereof extending generally radially outward from said opening, each rib having substantially parallel side edges both disposed at an angle with respect to a true radial position to provide a space between adjacent ribs along the said front face, said burner nozzle having discharge orifices therein with the axes thereof arranged in radial positions and in a common plane substantially parallel to and adjacent the front face of said ceramic member, means for supplying a gaseous fuel mixture into the burner nozzle, each of said discharge orifices being disposed to direct the fuel mixture into a space between inner ends of adjacent ribs so that the fuel mixture in moving outwardly from the burner nozzle engages side edges of the ribs, and said burner nozzle having openings therein converging at their outer ends towards outer ends of some of said discharge orifices.

2,667,217
AUTOMATIC PILOT CONTROL AND IGNITION APPARATUS
Michael J. Caparone, Arcadia, Calif., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware
Application October 21, 1949, Serial No. 122,618
7 Claims. (Cl. 158—125)

1. An automatic pilot control and ignition apparatus for fuel burners having main and pilot burners and a source of fuel supply, comprising a control valve member biased to a closed position and adapted for preventing said fuel supply to the main burner, an igniter adapted to be positioned for igniting the pilot burner, control means movable between positions for controlling the supply to said igniter of a medium for producing heat and being biased for preventing said medium supply, a pair of lever means cooperable for overcoming the bias of said control means when said valve member is in said closed position, one said lever means being operatively associated with said valve member, the other said lever means having operative connection with said one lever means and said control means, and thermally responsive means adapted for movement in response to the heat of a flame at the pilot burner and being operatively engageable with said other lever means for overcoming the bias of said valve member for moving the same to an open position and said control means to said biased position.



2,667,218
FOLDING CLOSURE
Solomon M. Collins, Detroit, Mich.
Application February 1, 1952, Serial No. 269,410
11 Claims. (Cl. 160—84)

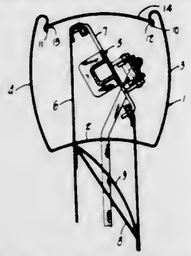


1. A folding closure member for vertical openings such as doors which comprises a doubled sheet of flaccid material having a length substantially equal to the height of the opening to be closed and a width substantially equal to the width of said opening, said doubled sheet being joined together in vertical seams spaced along its width to form pockets extending substantially the length of the sheet, and stiffening means comprising panels of relatively rigid material compared to the sheet material slidable into said pockets substantially the full length thereof, fastening means on said panels adjacent the top of said closure member and passing freely through said sheet material, and means slidably associating said fastening means with the top of the opening to be closed to permit said pockets of the closure member to fold together and to extend horizontally.

2,667,219
VENETIAN BLIND HEAD ENCLOSURE
Richard H. Wright, Bratenahl, Ohio, assignor to The Guarantee Specialty Manufacturing Company, Cleveland, Ohio, a corporation
Application August 3, 1951, Serial No. 240,150
1 Claim. (Cl. 160—177)

A Venetian blind comprising a head enclosure consisting of an approximately U-shaped body, said body having an upwardly concaved bottom formed with integral upright front and rear

side members, at least one of said side members being of convex form with its convex surface outward, a tilt bar in said enclosure having slat supporting tapes thereon, at least one slat carried by said tapes and said slat being of concavo-convex form in cross section with its convexity generally of the same degree as that of the one convex side previously mentioned so that



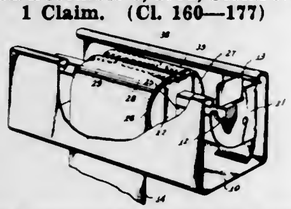
when the blind is closed in one direction the slat at its convex face will be similar in appearance to and conform with the convexity of said convex side of the enclosure, and a closure for the top of the head enclosure, said closure comprising a slat like that supported by the tape, said closure slat being interlocked at its longitudinal edges with the upper longitudinal edges of the front and rear side member of the head.

2,667,220

TAPE ROLL FOR VENETIAN BLINDS

Melvin C. Rutledge, Riverside, Calif., assignor to Hunter Douglas Corporation, Riverside, Calif., a corporation of Delaware

Application December 3, 1951, Serial No. 259,667
1 Claim. (Cl. 160—177)



A device for mounting a Venetian blind ladder tape on a tilt rod of non-circular cross section with at least two parallel faces, said device comprising a resilient sheet metal body having a flat portion on the top side thereof extending longitudinally of said tilt rod, said flat portion having downwardly bent extensions at its opposite ends with slots formed in said ends which are angularly displaced with respect to one another, whereby said body must be torsionally deformed to allow said slots to simultaneously engage said tilt rod, said device being pressed down onto said tilt rod from above to engage said tilt rod in said slots, one edge of each of said slots being resiliently pressed against said parallel faces of said tilt rod by the torsional strain in said body to frictionally resist removal therefrom, and means on said flat portion for securing said ladder tape thereto.

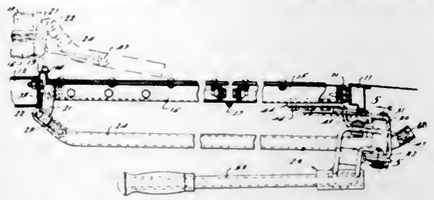
2,667,221

CLOSURE OPERATOR

Rex A. Terry, Berkley, and Gustave C. Kuehn, Huntington Woods, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application November 19, 1948, Serial No. 60,924
7 Claims. (Cl. 160—188)

1. In a motor vehicle, a body having a door opening and a door therefor comprising a plurality of foldably connected sections, one of said sections being hingedly mounted on said body at one side edge of the door opening, a bell crank control lever pivotally mounted within said body adjacent the upper end of the door opening, a first rigid arm projecting from the upper end portion of the door section hingedly mounted on said body, a rigid, control link extending along the upper end edge of the door opening and pivotally connected at its opposite ends to said control lever and said first rigid arm, said control link having a guideway extending lengthwise thereof, a guide pin carried by the upper end portion of another of said door sections having parts thereof mounted for movement along the guide-



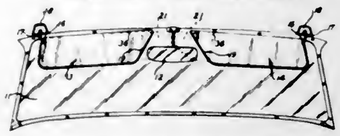
way in said control link, a second rigid arm projecting from the lower end of the door section that is hingedly mounted on the body, and spring actuated, overcenter linkage connected between said second rigid arm and a guideway mounted on the body adapted to actuate and guide the movement of the lower end of said one of the door sections and providing means to retain the door sections in fully opened and fully closed positions, said overcenter linkage at the lower end of the door cooperating with the guiding and actuating linkage at the upper end of the door to provide a pair of opposite disposed door actuating and guiding linkages that prevent binding of the door sections during actuation thereof.

2,667,222

EXTENSIBLE VISOR FOR MOTOR VEHICLES

Russell J. McCarthy, Detroit, and Milton E. Siegert, Plymouth, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application October 9, 1952, Serial No. 313,928
4 Claims. (Cl. 160—211)



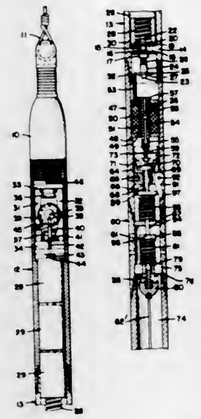
1. An extensible visor for a motor vehicle adapted to be positioned adjacent the interior side of the vehicle windshield, comprising a hinge member extending substantially the entire length of the visor, a frame secured to said hinge member and extending from one end of the visor to an intermediate portion thereof, a sheet metal guide secured to said frame and forming a continuation thereof from the end of said frame to the opposite end of said visor, said guide having an elongated guideway formed at the lower edge thereof and an aligned guideway adjacent the upper edge thereof between said guide and a portion of said hinge member, and a visor extension slideable in said two guideways from a position adjacent said guide member to a position extending beyond the end of said guide member, and a cover member surrounding said hinge member, frame member, and guide member.

2,667,223

APPARATUS FOR SAMPLING WELLS

Riley F. Farris, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application August 3, 1948, Serial No. 42,223
6 Claims. (Cl. 166—19)



1. An apparatus for sampling fluids in a well including an elongated sample chamber supported by a cable from the surface, a valve at each end of said chamber, a valve rod on each valve, resilient means urging the valves closed, arms rotatably mounted on said chamber and expandable to a diameter larger than said chamber to contact the well walls, a supporting rod for said chamber, a cam on said rod, a frangible member in said supporting rod for holding said valves open and a jar connected to said supporting rod for rupturing said frangible member, said arms being expanded by said cam and said valves being closed when said frangible member is ruptured, whereby further lowering of said chamber in said well is prevented after said valve means is closed as an indication at the surface that said sample is entrapped in said chamber.

2,667,224

WELL COMPLETION PROCESS

George C. Howard, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application June 29, 1949, Serial No. 101,968
8 Claims. (Cl. 166—21)

1. A method of completing a well comprising introducing into said well under pressure a hydrocarbon fracturing liquid containing between about ⅓ and ½ by weight of a finely divided water-soluble solid and between about 1 and about 3 per cent blown asphalt, fracturing a formation in said well, and thereafter producing said well to remove said fracturing liquid.

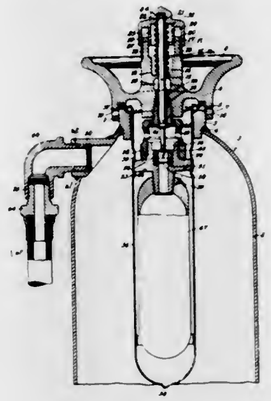
2,667,225

POWDER FIRE EXTINGUISHER

Frank B. Allen, Towaco, and Norman H. Siebens, East Orange, N. J., assignors to C-O-Two Fire Equipment Company, Newark, N. J., a corporation of Delaware

Application November 21, 1949, Serial No. 128,513
9 Claims. (Cl. 169—31)

1. A dry powder fire extinguisher adapted to be discharged while inverted, the extinguisher comprising a container, means providing an outlet adjacent the top of the container above the normal powder level, means providing a charging opening at the top of the container, a gas cartridge to expel the powder from the container through the outlet, a discharge head uni-



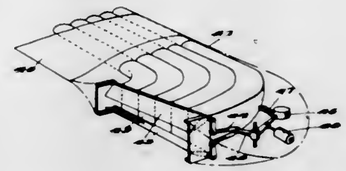
tary assembly including cartridge opening means, and universal joint means on the under surface of the discharge head carrying the cartridge and supporting it in operative position with respect to the cartridge opening means, whereby the insertion of the cartridge into the powder charge is facilitated.

2,667,226

JET-DRIVEN HELICOPTER ROTOR

Friedrich List Doblhoff, Zell am See, Austria, assignor to The Fairey Aviation Company Limited, Hayes, England

Application April 9, 1947, Serial No. 740,366
Claims priority, application France May 18, 1946
8 Claims. (Cl. 170—135.4)



1. A reaction propulsion device for helicopter rotor blades adapted to be supplied with a propulsion fluid comprising, means forming an internal passage in at least one of said blades to receive heated propulsion fluid, a propulsion nozzle in said blade in communication with said internal passage for expelling said heated fluid to cause rotation of said blades, closure means cooperating with said nozzle for varying the effective cross sectional area of the opening of said nozzle, and control means connected to said closure means and substantially operable in response to the speed of rotation of the rotor for controlling the position of said closure means, said control means being operable to move said closure means to decrease the area of the opening of said nozzle when the speed of rotation of the rotor increases beyond a predetermined value,

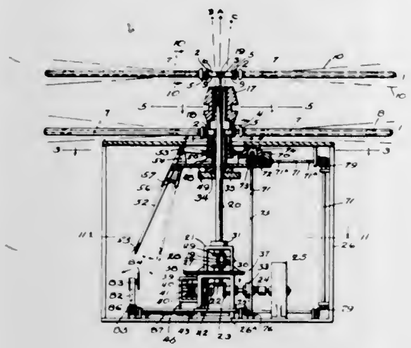
and to move said closure means to increase the nozzle area when the speed of rotation of the rotor decreases below said value.

2,667,227

VARIABLE SPEED COUNTER-ROTATING ROTOR SYSTEM FOR HELICOPTERS AND CONTROL MEANS THEREFOR

Isidor B. Laskowitz, Brooklyn, N. Y.

Application January 12, 1948, Serial No. 2,033
7 Claims. (Cl. 170—135.24)



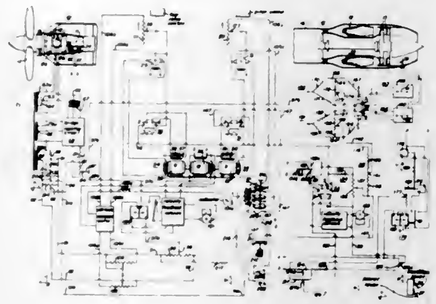
1. A helicopter comprising a supporting frame, a pair of concentric shafts and a bracket construction mounted in said frame, each of said shafts having a rotor unit secured thereto at its upper end, each of said units comprising a plurality of swiveled blades for angular pitch adjustments, said units comprising upper and lower rotors, a sleeve surrounding said shafts in spaced relation thereto and located between said lower rotor unit and the bracket construction, upright cones surrounding said shafts in spaced relation and located between said rotors, said cones having their bases connected in fixed spaced relation to each other and connected to and supported on the outer surface of said sleeve, arms on said blades extending therefrom respectively and into contact with said cones, main gear mechanism interconnecting said shafts whereby said shafts and rotors are rotated in opposite directions, power means operatively connected to said main gear mechanism to drive the same, said bracket construction depending from the top of said frame and connected thereto, an upright tubular member fixed on said bracket and telescopically engaging said sleeve on the inner side thereof, said bracket construction, sleeve and cones being adjustable for limited displacement transversely of said shafts, control means mounted within the frame and connected to said bracket construction to cause displacement of said bracket construction, sleeve and cones transversely and thereby adjust the pitch of said blades sinusoidally to vary the direction of rotor thrust with reference to said frame, a lever pivotally mounted on said bracket construction and pivotally connected to said sleeve to raise or lower said sleeve and cones and thereby change the angular pitch of said blades simultaneously to control the intensity of the thrust of said rotors, in combination with gear mechanism and a shiftable clutch means connected to said main gear mechanism for varying the speed of one rotor relatively to the other rotor for directional control.

2,667,228

AIRCRAFT FUEL AND PROPELLER PITCH CONTROL

Cyrus F. Wood, Swarthmore, Pa., and Carl L. Sadler, Jr., Rockford, Ill., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application February 24, 1949, Serial No. 78,162
3 Claims. (Cl. 170—135.72)



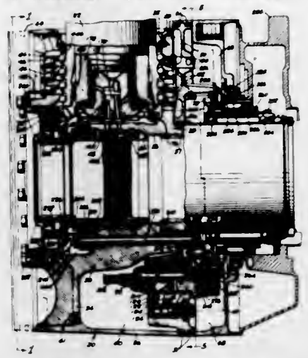
1. In aircraft propulsion apparatus, the combination of, a propulsion gas turbine; a variable pitch propeller driven by the turbine by means of a driving connection; means connected with the turbine for supplying fuel for operation of the turbine; means providing electrical outputs in response to torque of the driving connection between the turbine and the propeller and in response to turbine speed and temperature; first, second, third and fourth vacuum tube means with said first and second vacuum tube means each including a pair of sets of tube elements and each set including a control grid; a normally-balanced controlling electrical network for the grids of said first and second tube means and including a voltage divider having its ends connected to a first grid of each of the first and second tube means, a speed bridge including said third vacuum tube means forming one of its impedance arms and having its output impressed across the resistance of the voltage divider, a temperature bridge including said fourth vacuum tube means forming one of its impedance arms and having its output impressed on the midpoint of the voltage divider, first and second potentiometers including sliders respectively connected to the second grids of the first and second tube means, means operatively connected with said fourth tube means for varying the impedance of the fourth tube means in response to changes in torque electrical output, means operatively connected with said fourth tube means for varying the impedance of the fourth tube means in response to changes in temperature electrical output, and means operatively connected with said third tube means for varying the impedance of the third tube means in response to changes in speed electrical output; motors operatively connected with and controlled in response to potential unbalance of the grids of the first and second tube means to vary the fuel input and the propeller pitch and to adjust the sliders of said potentiometers to rebalance the grid potentials; and manually-operable torque, speed and temperature settings for the network and adjustable to vary the torque, speed and temperature electrical output values for network balance.

2,667,229

PROPELLER CONSTRUCTION HAVING INTEGRAL HUB RESERVOIR

Arthur N. Allen, Jr., Wethersfield, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application April 8, 1950, Serial No. 154,857
6 Claims. (Cl. 170—160.33)



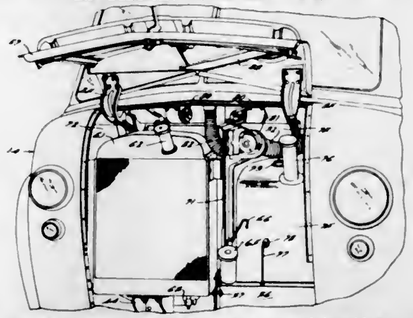
1. In a variable pitch propeller, a unitary hub portion comprising a central member extending along the axis of propeller rotation and adapted to engage a propeller driving shaft, blade receiving sockets extending outwardly from said central member, closure means spanning the space between said sockets, and a shroud coaxially disposed in spaced surrounding relation with said central member and engaging the outer periphery of said closure means to form an annular chamber, a closure member axially spaced from said closure means and engaging said shroud and said central member for sealing said chamber including hydraulic units carried thereby and integral fluid passages therein, propeller blades mounted for pitch changing movements in said sockets and including pitch changing units therein, and passage means carried by said unitary hub portion providing fluid communication between said pitch changing units and said hydraulic units including connecting means providing fluid tight connection between said units.

2,667,230

POWER PLANT ARRANGEMENT FOR SERVICING FROM OUTSIDE FRONT ENDS OF VEHICLES

Robert H. Duff, Detroit, and Rex A. Terry, Berkley, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application September 1, 1948, Serial No. 47,213
12 Claims. (Cl. 180—64)



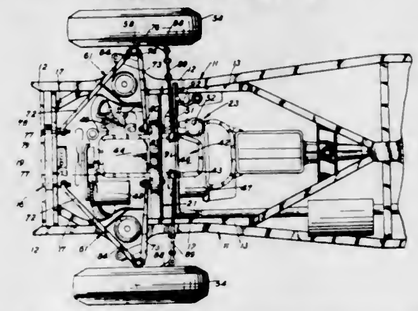
5. In a motor vehicle the combination of a vehicle body having a forwardly opening power plant compartment at the front end thereof, said compartment including separable longitudinally extending, engine and fuel sections, a chassis frame supporting said body and extending beneath said compartment comprising a plurality of longitudinally extending, spaced apart rail members connected together at their forward end portions by a transversely extending, cross frame member, a longitudinally extending engine unit including engine crankcase check and fill pipes and a forwardly facing radiator mounted on said chassis frame and positioned within said engine section, the radiator and engine crankcase check and fill pipes projecting forwardly to the front of said power plant compartment opening, a longitudinally extending fuel tank including a fill pipe mounted within said fuel section, the fill pipe for said tank projecting forwardly to the front of said power plant compartment opening, and closure means for the opening to said power plant, the arrangement being such that normal servicing of the power plant may be accomplished from outside the forward end of the vehicle when said closure means has been moved to a position to uncover the opening to the power plant compartment.

2,667,231

VEHICLE CHASSIS AND MOTOR SUPPORT THEREON

Earle S. MacPherson, Huntington Woods, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

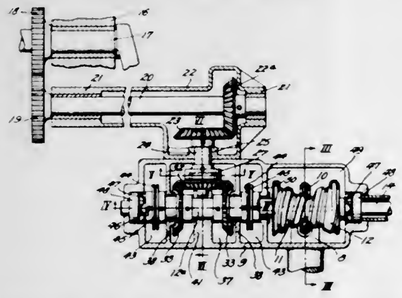
Application May 3, 1952, Serial No. 285,872
2 Claims. (Cl. 180—64)



1. A motor vehicle chassis comprising a pair of laterally spaced longitudinally extending side frame members, a front transversely extending cross frame member interconnecting said side frame members at the extreme forward ends thereof, an intermediate transversely extending cross frame member interconnecting said side frame members and spaced a substantial distance rearwardly of said front cross frame member, said intermediate cross frame member being tubular in cross-section and being bowed downwardly between said side frame members so that the central portion of the intermediate cross frame member is substantially below the level of said side frame members to provide clearance for mounting an engine therebetween, an engine having its center of gravity located substantially in vertical alignment with said intermediate cross frame member, a pair of resilient engine mounts supported upon said intermediate cross frame member at opposite sides of said engine, supporting means at opposite sides of said engine connected to said engine mounts, an oil pan mounted upon the bottom of said engine and straddling the downwardly bowed portion of said intermediate cross frame member, said oil pan having a deep forward portion located between said front

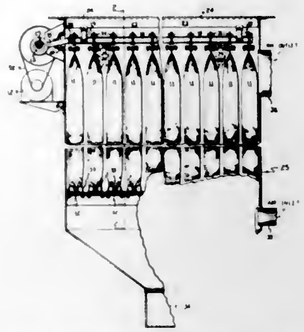
and intermediate cross frame members and extending beneath the level of said intermediate cross frame member, said oil pan also having a shallower intermediate portion located above the central bowed portion of said intermediate cross frame member and a rearward portion extending rearwardly therefrom, said rearward portion being located entirely above the level of the intermediate cross frame member and being inclined progressively upwardly in a rearwardly direction from the intermediate cross frame member, sufficient room being provided between the forward portion of said oil pan and said front cross frame member to permit said oil pan to be detached and removed from said engine without disconnecting said engine from its engine mounts by dropping the deep forward portion of said oil pan and thereafter sliding said oil pan forwardly and downwardly.

2,667,232
POWER STEERING MECHANISM FOR AUTOMOTIVE VEHICLES
Bruce D. Woolley, Johnstown, Ohio
Application May 8, 1951, Serial No. 225,147
4 Claims. (Cl. 180—79.3)



2. Engine power supplemented operating mechanism for steering control of the ground-engaging front wheels of motor vehicles, comprising: an internally chambered housing; a toothed drive gear supported for rotation within said housing; engine driven means imparting unidirectional rotation to said gear; oppositely facing complemental gears arranged in said housing having teeth disposed in constant mesh with those of the drive gear, whereby to cause said complemental gears to rotate in opposing directions; shaft means supported in said housing for manual and engine power rotation and limited longitudinal thrust movement; a pair of longitudinally spaced clutches arranged in said housing axially of said shaft means, said clutches including driving and driven disks; means joining the driving disks of said clutches with said complemental gears for rotation in unison therewith in the same directions; means joining the driven disks of said clutches with said shaft means to cause the latter to rotate in unison with the driven disks and in the same directions; resilient means maintaining normally the driving and driven disks of said clutches in spaced non-driving relationship; and thrust-developing actuating gearing operated by turning movement of said shaft means, said actuating gearing serving to control the steering positions of associated front ground wheels of a motor vehicle, the longitudinally directed thrusts imparted to said shaft means serving to bring the disks of one or the other of said clutches, against the resistance of said resilient means, into engine power-transmitting engagement with each other, whereby to rotate said shaft means by engine power.

2,667,233
SHAKER MECHANISM FOR DUST COLLECTOR FILTER BAGS
Walter O. Vedder, Hagerstown, Md.
Application December 12, 1950, Serial No. 200,396
2 Claims. (Cl. 183—58)

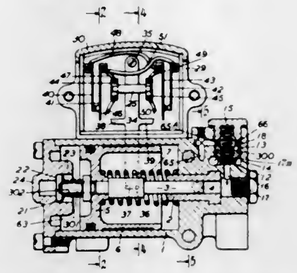


1. In a dust collecting apparatus for filtering and collecting dust from air including filter bags and means for shaking the filter bags free of collected dust, the improvement which comprises an overhead fixed support, at least two but not more than three suspension links each having one end pivotally mounted to depend from said overhead support, a swing bar, means pivotally connecting said swing bar to the free ends of said links, mounting means suspended from said swing bar including structure for interchangeably attaching a plurality of filter bag tops, and driving mechanism connected with said swing bar including structure for reciprocating said bar along its longitudinal axis to cause the bar to swing to and fro about said link pivots and transmit an intermittent stretching and snapping action to said bags for freeing collected dust therefrom.

2,667,234
ACETYLENE SEPARATION PROCESS
Rudolph Leonard Hasche, Johnson City, Tenn., assignor, by mesne assignments, to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application February 25, 1950, Serial No. 146,400
3 Claims. (Cl. 183—115)

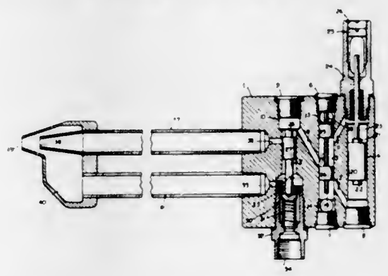
1. In a selective absorption process for the recovery of acetylene from a mixture of gases obtained by pyrolysis of hydrocarbons, said mixture including ethylene, methane, hydrogen, carbon monoxide and carbon dioxide in addition to acetylene, the improvement comprising the steps of (1) countercurrently contacting the mixture under a superatmospheric pressure of the order of about 300 pounds per square inch and at a temperature below about 25° C. with a solution comprising 1–5% water and 99–95% of a highly selective, non-inflammable, thermally stable, substantially non-hydrolyzing, high boiling, high molecular weight tri-ester of ortho phosphoric acid which is miscible with water in all proportions, has a low vapor pressure and has the structural formula $(R_1—O—R_2)_3PO_4$ wherein R_1 and R_2 are alkyl groups and wherein the total number of carbon atoms in R_1 and R_2 is not greater than six, (2) subsequently evaporating from said solution a mixture of acetylene and steam, and (3) finally separating gaseous acetylene from the acetylene-steam mixture by condensation of the steam.

2,667,235
LIQUID OR LUBRICANT DISTRIBUTION SYSTEM
Camille Clare Sprankling Le Clair, Acton, London, England, assignor to Tecalemit Limited, Brentford, England, a corporation of Great Britain
Application April 17, 1948, Serial No. 21,634
Claims priority, application Great Britain April 29, 1947
40 Claims. (Cl. 184—7)



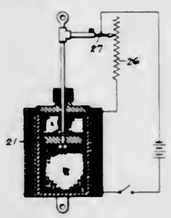
1. A lubricating system comprising a plurality of lubricant injectors wherein a charge of lubricant is introduced to charge said injectors and subsequently discharged under pressure, fault-detecting means for detecting failure of the injectors to discharge a predetermined charge of lubricant or to receive a predetermined charge including means to indicate at which injector or injectors failure has occurred, means to control the sequence of operation of said injectors and fault-detecting means including means to continue operation of the system irrespective of the failure of one or more injectors to function, and means in said fault-detecting means for indicating that a failure has occurred somewhere in the system during the continued operation of the system.

2,667,236
LUBRICANT MEASURING SPRAY MEANS
George T. Graves, Bedford, Ohio, assignor to The Farval Corporation, Cleveland, Ohio, a corporation of Ohio
Application April 21, 1950, Serial No. 157,209
3 Claims. (Cl. 184—7)



1. In a lubricant dispensing system including two lubricant supply lines, a pump operative to deliver lubricant to such lines under pressure, means adapted intermittently to meter the discharge of such pump alternately to each of such lines, the line not receiving lubricant being connected to relief, and a plurality of lubricant metering valves each comprising a measuring valve and a pilot valve adapted to receive such lubricant under pressure from such lines alternately, connect such line under pressure to one end of such measuring valve, and connect the other end of such measuring valve to a discharge passage for discharge of a measured amount of lubricant under pressure therefrom; the combination of a lubricant spray device associated with each such metering valve adapted to be actuated only by and during such discharge of such measured amount of lubricant, said spray device comprising a cylinder having one end in communication with such lubricant discharge passage, a closely fitting lubricant valve piston reciprocable in said cylinder, a lubricant exit port in the side of said cylinder adapted to be covered by said lubricant valve piston in one position of the latter and uncovered thereby upon slight reciprocation of the same by inflow of lubricant under pressure from such passage, a compressed air supply line, an air inlet valve connecting said air supply line to the end of said last-named cylinder opposite to that communicating with such lubricant discharge passage, said air inlet valve being axially aligned with said cylinder and comprising a valve piston adapted to seat externally thereof, a compression spring urging said air valve piston to seated position to close the same, an axial extension of said lubricant valve piston adapted to engage said air valve piston when said latter piston is thus seated, said lubricant valve piston then being in lubricant exit port closing position, a spray nozzle including a mixing chamber having a spray exit orifice, a conduit leading from said lubricant exit port to said nozzle and terminating within such chamber in alignment with such spray exit orifice, an air exit port in said cylinder between said air valve piston and said lubricant valve piston, and a conduit leading from said air exit port to such chamber, whereby, upon delivery of a predetermined amount of lubricant under pressure to said spray device cylinder said lubricant valve piston will be reciprocated thereby against the force of said compression spring and air pressure to uncover said lubricant exit port and open said air inlet valve, and lubricant will thereupon be expelled from such spray exit orifice under action of such air pressure, the air inlet valve being closed by said spring and air pressure when delivery of such predetermined amount of lubricant at said lubricant exit port has been completed and said lubricant valve piston therefore permitted to return to port closing position.

2,667,237
MAGNETIC FLUID SHOCK ABSORBER
Jacob Rabinow, Washington, D. C.
Application September 27, 1948, Serial No. 51,402
13 Claims. (Cl. 188—88)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A device for controlling the relative motion between two members the first of said members comprising a cylinder and the second of said members comprising a plunger movable within and spaced from said cylinder, a mass of contiguous discrete paramagnetic particles in the said cylinder and extending to the said plunger, means for applying a force to move the said plunger relative to the said cylinder, a coil sur-

rounding said cylinder, a source of electrical energy connected to excite said coil and a rheostat operable by said motion of said plunger to vary the excitation of the said coil.

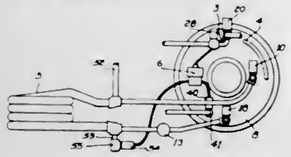
2,667,238

COOLING MEANS FOR DYNAMOMETERS

Harold L. Bennett, South Bend, Ind., assignor, by mesne assignments, to Clayton Manufacturing Company, El Monte, Calif., a corporation

Original application February 19, 1941, Serial No. 37,958. Divided and this application February 25, 1946, Serial No. 649,967

6 Claims. (Cl. 188—90)



1. In a dynamometer of the liquid resistance type, means to maintain a predetermined quantity of resistance liquid therein, during operation, means in heat exchange relationship to said resistance liquid to cool it, means automatically operable in response to increase in temperature of the resistance liquid to vary compensatively the heat exchange rate of said heat exchange means, to cool the resistance liquid, and thereby automatically to maintain the resistance liquid at a substantially constant temperature during operation, supplemental heat exchange means in heat exchange relationship to said resistance liquid, operable to cool it but normally inoperative, and means automatically operable in response to an increase in temperature of the resistance liquid to a given temperature to effect operation of said supplemental heat exchange means for cooling said resistance liquid, so long as the temperature of the resistance liquid remains elevated above such given temperature.

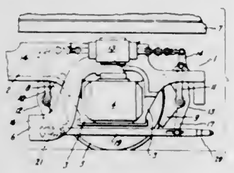
2,667,239

ADJUSTING MECHANISM FOR RAILWAY BRAKE RIGGINGS

Russell K. Schlosser, Jr., Wesleyville, Pa., assignor to General Electric Company, a corporation of New York

Application October 3, 1951, Serial No. 249,541

2 Claims. (Cl. 188—197)



1. An adjusting mechanism for a rail vehicle truck brake rigging having a truck lever and including a pair of pull rods straddling a wheel of the truck, comprising means for connecting the truck lever to the pull rods including a yoke member having arms respectively connected to the pull rods, a connecting member having the truck lever pivotally connected to one end thereof, said connecting member being arranged intermediate said yoke member arms and being movable from a first position in which the said end to which the truck lever is connected faces away from the wheel to a second position with said end facing toward the wheel whereby the truck lever can be moved closer to the wheel to compensate for wheel wear, and means removably secured to said yoke member for retaining said connecting member in either said first or said second position.

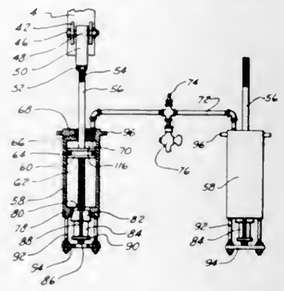
2,667,240

BRAKING APPARATUS

Alvin H. Wilkinson and Michael Pallein, Tulsa, Okla., assignors to Franks Mfg. Corporation, Tulsa, Okla., a corporation of Oklahoma

Application April 5, 1950, Serial No. 154,073

5 Claims. (Cl. 188—204)



5. In a braking device, comprising a plurality of brake bands, manually operable mechanical means providing a tangential force to the actuating ends of the brake bands, a plunger rod connected to the trailing end of each brake band, a hydraulic cylinder operatively associated with each plunger, means to equalize the hydraulic pressure in said cylinders for equalizing the braking action of said brake bands against the drum, plunger means on each rod, and expandable locking means on each of said plunger rods operable in one position to limit the movement of said plungers in one direction and operable in a second position to allow said plungers to move freely in the opposite direction.

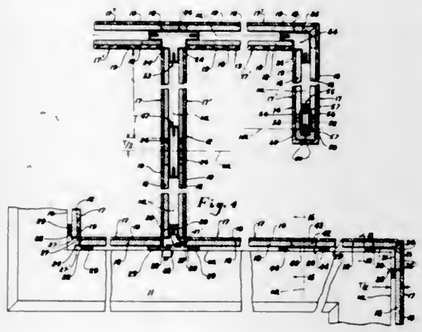
2,667,241

PREFABRICATED BUILDING STRUCTURE

Harold S. Shannon, Detroit, Mich., assignor to National Steel Corporation, a corporation of Delaware

Application November 16, 1945, Serial No. 629,084

1 Claim. (Cl. 189—1)



In a building construction having a pair of exterior walls joining at a corner, the exterior walls each having an inner wall surface, one stepped stud member at the corner, an interior panel for each of the exterior walls and seating on said one stud member, the said one stud member having seating surfaces coplanar with and engaging the respective inner wall surfaces and having stepped seating surfaces positioning the inner surfaces of the interior panels a predetermined distance from the respective inner wall surfaces of the exterior walls and spacing each of the adjacent lateral edges of the interior panels from the opposite inner wall surface a distance equal to said predetermined distance, a partition extending in a direction normal to one of the exterior walls, the partition including oppositely spaced apart panels extending inwardly from said one exterior wall, a pair of stepped stud members similar to the one stud member arranged back to back each with a seating surface coplanar with and engaging the inner wall surface of said one exterior wall, adjacent interior panels for said one exterior wall seating on stepped seating surfaces of the pair of stud members, the last mentioned interior panels being positioned with their inner surfaces spaced inwardly from the inner surface said predetermined distance and with their opposed edges spaced apart a distance equal to twice said predetermined distance, and the oppositely spaced apart partition panels seating on the pair of stud members, the pair of stud members including stepped seating surfaces spacing apart the partition panels a distance such that the thickness of the partition is twice said predetermined distance and positioning the adjacent side edges of the partition panels coplanar with inner surfaces of the last mentioned interior panels, said one stud member and said pair of stud members all being similarly stepped.

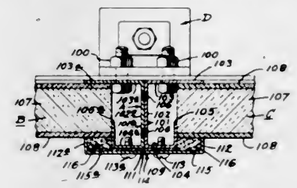
2,667,242

PREFABRICATED METAL PANEL JOINING MEMBER

Frank Kullmer, Burlingame, Calif., assignor to Soule Steel Company, San Francisco, Calif., a corporation of California

Application September 13, 1949, Serial No. 115,370

3 Claims. (Cl. 189—34)



1. In a building structure, the combination of a pair of structural panels lying in the same plane but spaced edgewise; a prefabricated metal stud unit joining said panels, said stud unit comprising a pair of generally channel shaped members each having a web and opposed parallel side elements of unequal length perpendicular to said web, the webs of said members being secured rigidly together in back-to-back relation, the shorter side elements of said members each terminating in inturned portions lying at right angles to said shorter side elements and each abutting an edge of one of said panels, the longer side elements of said members each terminating in a flat portion positioned against a face of the panel abutting the corresponding one of said inturned portions; and securing means affixed to said shorter side elements of said members, overlapping and securing said panels.

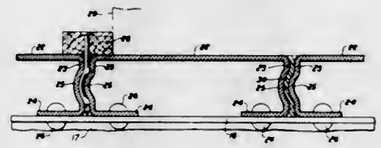
2,667,243

CONVEYANCE CONSTRUCTION

Harry D. Fenske, Detroit, Mich., assignor to National Steel Corporation, a corporation of Delaware

Application February 16, 1946, Serial No. 648,085

2 Claims. (Cl. 189—34)



1. In a freight conveyance of the type in which freight in transit is subject to forces tending to move the freight relative to the conveyance, the combination comprising, a conveying supporting structure mounted for movement which sets up the forces and a metallic floor construction carried thereby to which blocking can be nailed for preventing shifting of freight in transit, the metallic floor construction including a plurality of long narrow metallic structural members arranged side by side, each structural member including a panel having a freight engaging face directed away from the conveying supporting structure, the freight engaging faces of the plurality of structural members being arranged at a uniform level to form the surface of the floor, a pair of side reinforcing webs joined to each panel along the side edges thereof and extending laterally from the panel in a direction toward the conveying supporting structure, a flange joined to at least one web on each structural member and extending laterally from said web along the edge removed from the panel, said flange being in engagement with the conveying supporting structure, means including rigid connection between flanges of the structural members and the conveying supporting structure integrating the metallic floor construction and conveying supporting structure and holding the structural members in side by side relation in the conveyance with the opposed webs of adjacent structural members contiguous to form a slot therebetween, the opposed webs being shaped and spaced to receive snugly therebetween a nail driven into the slot, means acting between the opposed webs for deforming and retaining nails driven into the nailing slot, the faces of the panels and the entrances to the nailing slots being exposed for engaging freight and for receiving nails for blocking the freight, respectively, and a closure means of mastic material closing the entrance to each nailing slot along the length of the nailing slot at substantially the level of the surface of the floor.

2,667,244

GLASS DOOR

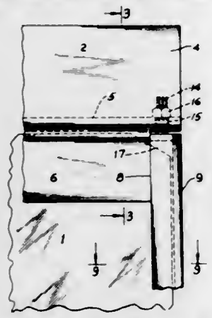
George L. West, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application October 16, 1951, Serial No. 251,543

14 Claims. (Cl. 189—46)

1. In a door construction, in combination, a glass panel forming a structural member of the door, top and bottom transverse door members resiliently fitted to the glass panel, rigid members enclosing the vertical edges of the glass panel, and adjustable connections between the

ends of the rigid members and the adjacent transverse door members for retaining the glass



panel in compression between the transverse members.

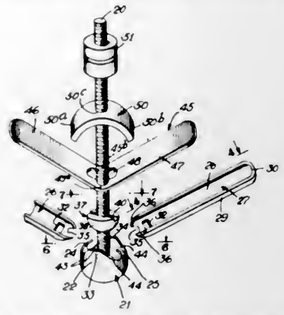
2,667,245
STORM SASH CONSTRUCTION
George J. Shink, Detroit, Mich., assignor of one-half to W. H. Bogart, Mount Clemens, Mich.
Application September 22, 1950, Serial No. 186,265
4 Claims. (Cl. 189—75)



1. A combined window support, insulation retainer and locking channel member comprising a pair of inverted, U-shaped channel sections integrally connected by a common side wall and extending longitudinally side by side, said channel sections being similarly disposed with the lower open face of one section lying in a plane spaced below the plane of the lower open face of the other channel section, said last mentioned channel section having a longitudinally extending flange along the outer face of the side wall thereof which is remote from said other channel section, said flange being disposed adjacent the lower free edge of said side wall and extending in a plane generally perpendicular to the plane of said side wall, said channel section provided with said flange having a pair of opposed longitudinally extending beads on the inner faces of its side walls and said other channel section having apertures in the top wall thereof to receive fastening members.

2,667,246
MULTIANGULAR CLAMP FOR GLASS PANELS OR THE LIKE
Ralph N. Ghersin and George L. Briggs, White Plains, N. Y.
Application April 3, 1953, Serial No. 346,704
40 Claims. (Cl. 189—78)

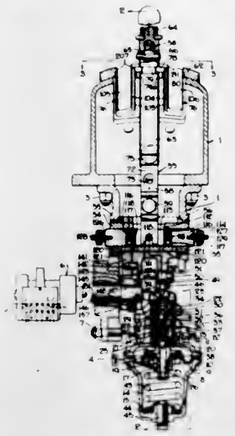
31. A multi-angular corner clamp construction for clamping panels of glass or the like which are in substantially edge-to-edge relation and make an angle with each other comprising a threaded tension rod for passage through the panel junction and having a cup-shaped fulcrum member at its outer end and coaxially therewith with the open end of said cup-shaped member toward said panels and a diameter thereof substantially aligned with said junction, said cup-shaped fulcrum member having its rim on each side of said diameter cut away to provide two opposed concave fulcrum edges, two elongated front clamping members for engagement with the respective front faces of said two panels and having front surfaces which are convex and which seat respectively against said two opposed concave fulcrum edges with portions of the clamping members extending radially inward of



the rim of the cup-shaped fulcrum member and toward said threaded tension rod, means comprising a nut threaded on said threaded rod and providing a face engageable with said portions of said front clamping members and operable to conjointly pivot said clamping members about said concave fulcrum edges for substantially setting the angle between said two clamping members to the angle of said panels, back clamping means providing parts adapted to rest against the respective inside faces of said panels, each to one side of said junction and respectively juxtaposed to said front clamping members, and means comprising a nut threaded onto the inner end of said threaded tension rod and coacting with said back clamping means to tension said rod.

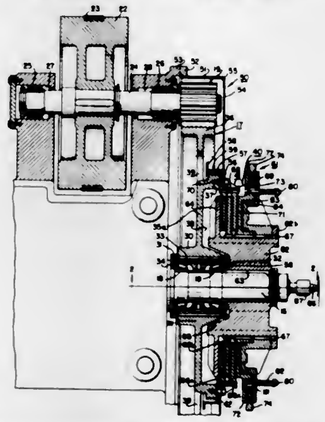
2,667,247
POWER AND BRAKE CONTROLLER
Harry C. May, East McKeesport, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Original application June 29, 1950, Serial No. 171,078. Divided and this application October 13, 1951, Serial No. 251,225
6 Claims. (Cl. 192—3)

1. A vehicle power and brake controller device comprising an operating shaft having a neutral position and rotatable in one zone out of said neutral position to control propulsion power and out of said neutral position in another zone to control braking power, a plurality of switch devices operative to open or closed position in accordance with the rotary position of said shaft, actuating means comprising a single handle for rotating said shaft in either zone, means obstructing movement of said handle between a neutral position and a brake controlling position, manual means for nullifying said obstructing means, stepping means interposed between said actuating means and said shaft for limiting continuous rotation of said shaft in either of said zones to a series of steps, a braking control pipe, a self-lapping valve device operable by said handle when the handle rotates the shaft in said other zone to vary the pressure of fluid in said braking control pipe, and selector means comprising an element shiftable by said handle to one position to estab-



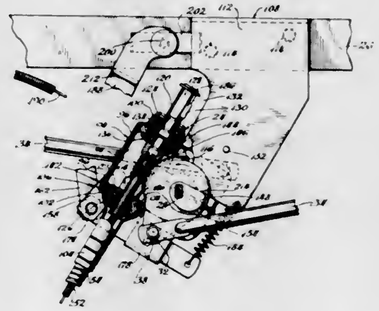
lish electrical circuits to be controlled during rotation of said shaft in said one direction and shiftable to another position to establish electrical circuits to be controlled during rotation of said shaft in said opposite direction.

2,667,248
FRICTION CLUTCH AND BRAKE ON GEARED TYPE PRESSES
Reuben E. Wissman, Minster, Ohio, assignor to The Minster Machine Company, Minster, Ohio, a corporation of Ohio
Application February 11, 1950, Serial No. 143,778
2 Claims. (Cl. 192—18)



1. The combination of a geared type of press having a crankshaft projecting from the press frame and carrying a drive gear thereon adjacent the press frame and a combination clutch-brake unit on the outboard end of the crankshaft, said drive gear including a first gear hub journaled on said shaft for free rotation thereon, a second hub on the outboard end of said shaft drivingly secured thereto; said second hub exteriorly overlapping a part of said gear hub to nest therewith, a center web extending outwardly from said first hub, an annular projection extending from one side of said web and formed therewith, a recessed chamber around said gear hub, said chamber receiving a portion of said combination clutch-brake unit, housing means surrounding said gear and being secured to said press, said housing having a wall provided with a central opening for reception of said clutch-brake unit, said wall overlapping and terminating adjacent said projection whereby a portion of said projection is within said housing, fluid lubricant means within said housing and annular grooves located in said projection for preventing lubricant from escaping from said housing.

2,667,249
WINDSHIELD CLEANER DECLUTCHING MECHANISM
William R. Bell, Skokie, Ill., and Edwin C. McRae, Dearborn, Mich.
Application April 22, 1950, Serial No. 157,488
4 Claims. (Cl. 192—33)

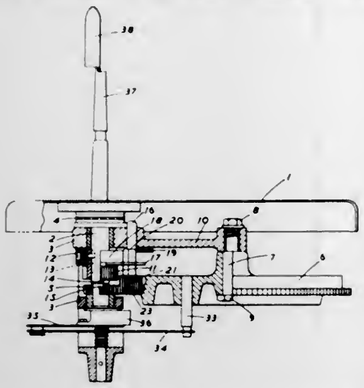


1. A driven shaft shifting mechanism for shifting a rotatable shaft in one endwise direction to disengage a remote clutch, said shaft being resiliently urged in the opposite direction to engage said clutch, comprising eccentric means driven at a reduced speed by said driven shaft, a member on said driven shaft movable in an endwise direction with said driven shaft, linking means driven by said eccentric to reciprocate cyclically toward and away from said member with each revolution of said eccentric whenever said driven shaft is rotated, and manually actuated means to change the length of said linking means so that said linking means impinges against said member when next reciprocated toward said member and urges said member and driven shaft in said one direction.

2,667,250
AUTOMATIC MECHANISM FOR PHONOGRAPH RECORD PLAYING APPARATUS
Alexander James Rae, West Ealing, London, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain
Application March 6, 1951, Serial No. 214,051
Claims priority, application Great Britain March 8, 1950
5 Claims. (Cl. 192—33)

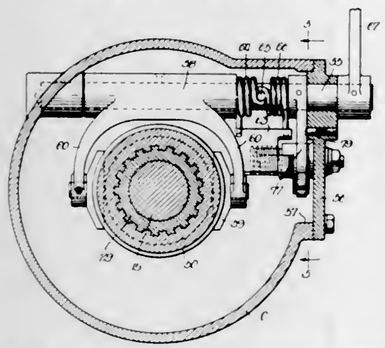
1. Automatic mechanism for phonograph record playing apparatus comprising a control disc, means for driving said disc, a clutch including a driven element coupled to said disc, a driving element coupled to said driving means, means for engaging said driving element with said driven element to drive said disc to initiate an automatic cycle, means operated from said disc to

move said driving element out of engagement with said driven element after a predetermined angular movement of said control disc, and



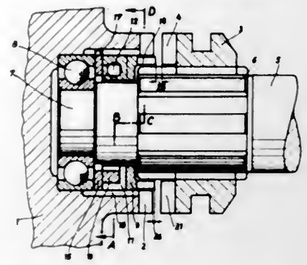
means for coupling said driving element with the disc to drive the disc for a limited extent beyond said predetermined angular movement.

2,667,251
CLUTCH SHIFTING MEANS FOR TRANSMISSIONS
Oscar H. Banker, Chicago, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware
Original application August 15, 1938, Serial No. 224,933, now Patent No. 2,384,448, dated September 11, 1945. Divided and this application August 8, 1945, Serial No. 609,555
11 Claims. (Cl. 192—48)



1. In a change speed transmission having a clutch of the overrunning jaw type with a shiftable clutch element retained in engaged position by the torque transmitted therethrough spring means adapted to be put under tension to effect a shift of the clutch element upon release thereof resulting from a change in the torque transmitted therethrough, a rotatable rock shaft for tensioning said spring means, a movably mounted abutment normally disposed to prevent shift of said clutch element by said spring means, an arm fixed on said shaft and operable in the rocking of said shaft tensioning said spring means to engage and render said abutment inoperative to prevent shift of the clutch element, and a shifting element for shifting said clutch element, said spring means being mounted at one end on said rock shaft and at its other end contacting one face of said shifting element.

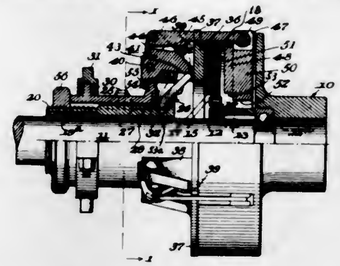
2,667,252
CLAW CLUTCH
Gustav Meyer, Wangen im Allgau, Wurttemberg, Germany, assignor to Karl Maybach, Friedrichshafen am Bodensee, Germany
Application November 24, 1950, Serial No. 197,282
Claims priority, application Germany March 21, 1950
10 Claims. (Cl. 192—67)



1. A claw clutch having two mating parts, one of said parts being axially movable relative to the other part, each part having axially projecting claws and gaps therebetween for receiving the claws of the mating part, each claw having a radial flank and an axial face, a member located coxially within and rotatably supported by one of said clutch parts and having axially projecting locking claws disposed substantially concentrically with and each having a radial flank and an axial face the latter adapted to slide on the axial faces of the claws of the clutch part by which the member is not rotatably supported, at least the claws of the clutch part with which said member is not rotatably connected having a circumferentially inclined axial face portion, and resilient means interposed between said member and the clutch part by which it is rotatably supported for urging the member, when the clutch is disengaged, into a position in which said flanks of the locking claws project circumferentially from said flanks of the claws of the clutch part by which the member is rotatably supported and into a space radially adjacent to the gaps between the claws of the clutch part by which the member is rotatably supported and for affording engagement of the clutch by rotation of said member against the pressure of said resilient means and pushing the locking claws circumferentially out of said space by engagement of said flanks of the claws of the clutch part by which the member is not rotatably supported with said flanks of the locking claws when the rotational speed of the latter exceeds that of the clutch part by which the member is not rotatably supported.

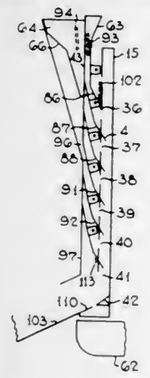
2,667,253
CLUTCH WITH TOGGLE LEVER OPERATOR
William G. Sherman, Seattle, Wash.
Application October 10, 1950, Serial No. 189,338
12 Claims. (Cl. 192—99)

1. A clutch mechanism comprising a driving member and a driven member, a clutch plate keyed to one of said members and a hub keyed to the other, pressure plates disposed at opposite sides of the clutch plate and engaged with said hub for rotation therewith, a plurality of bell-crank members pivotally connected to one of said pressure plates, links connecting the bell-crank members and the other of said pressure plates, said bell-cranks being rotatable in one direction to move said pressure plates into engagement with said clutch plate and rotatable in another direction to move said pressure plates out of engagement with said clutch plate, a sleeve shiftably mounted on one of said members having means forming a groove in one end thereof, cam



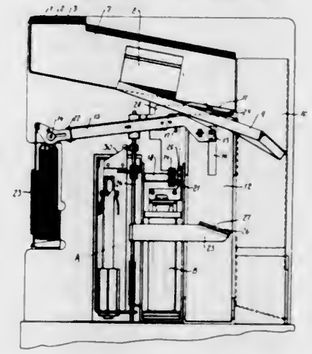
arms pivotally retained in said groove and each having a free end contacting one of the bell-crank members for rotation of said bell-crank member upon movement of said sleeve.

2,667,254
WEIGHT ACTUATED MECHANISM
Peter G. Crisafulli, Newark, N. J.
Application April 12, 1949, Serial No. 87,019
5 Claims. (Cl. 194—9)



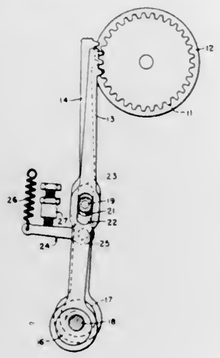
1. In a weight actuated unit for actuating an extraneous device, wherein the weight is fed into the unit edgewise down a chute, into a substantially vertical channel, open at the front, in which at least one vertically disposed flat lever arm is pivotally mounted to the sides of said channel with the axis of mounting substantially parallel to the plane of the back wall of the channel far enough away from said back wall to allow sufficient room behind the pivoted portion of said lever arm to allow another weight to pass therethrough when said lever arm is actuated by the first weight, actuating means attached to said lever arm to actuate an extraneous device when the lever arm is actuated by said weight, a gate slidably mounted over the open front of said channel and capable of moving vertically thereover and having side walls and a weight retaining back wall with a centrally disposed opening through which projects the bottom portion of said lever arm when in idle position, said back wall of said gate also being provided with laterally disposed slots of such dimensions as to allow said weights to pass therethrough into the gate when the gate is moved vertically for a given distance, said slots being disposed above and below the lower edge of the weight when the latter is resting on the lever arm and the gate is in idle position, and said slots being spaced so that the weight passes through one of said slots when the gate is raised vertically, a retaining front face for said gate to act as a guide for said weights, and engaging means on said gate for engaging a motivating unit for effecting vertical movement of said gate, the improvement comprising an angularly disposed first baffle within the bottom section of the channel below the lever arm and serving to draw off said weights away from said channel, a downwardly disposed angular deflecting second baffle disposed at the bottom of the back of the front face of the gate in the proximity of the first baffle and disposed on said face in such manner that said second baffle is at least as high as the nearest edge of the first baffle when said gate is in idle and raised positions, and said second baffle is lower than the nearest edge of said first baffle when said gate is in lowered position, and the slots in the back of the gate are so spaced as to allow discharge of the weights therethrough when the gate is in raised and lowered positions, and retaining means in front of said gate attached to said channel to prevent separation of said gate from said channel.

2,667,255
COIN COLLECTING DEVICE
Asger Kjerbye Nielsen, Copenhagen, Denmark, assignor to Telefon Fabrik Automatic A/S, Copenhagen, Denmark, a joint-stock company of Denmark
Application October 25, 1951, Serial No. 253,027
Claims priority, application Denmark October 30, 1950
3 Claims. (Cl. 194—9)



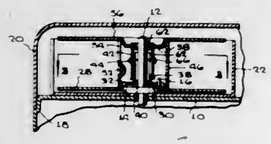
1. A coin collecting device comprising a plurality of chutes adapted to receive coins of different sizes and being located side by side, a pivotally mounted arm arranged for both vertical and horizontal motion, a coin responsive detecting member secured to said arm in a transverse position relatively to same and arranged to extend transversely through all of said chutes so as to cause by actuation of the gravity of a coin deposited in any of said chutes, a downwardly directed pivotal motion of said arm to a bottom position against a biasing force, switch contacts arranged to be actuated by said arm when moved to occupy said bottom position, a pulse responsive relay, a pinion arranged to be rotated stepwise by said relay, a rack secured to said arm and extending transversely of same and arranged to be engaged with said pinion when said arm is moved to its bottom position to cause when said relay is operated, a horizontal pivotal motion of said arm away from said chutes in order to withdraw said coin responsive member stepwise from said chutes one after the other.

2,667,256
LINE FEED MECHANISM
Berthel F. Madsen, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application February 14, 1951, Serial No. 210,910
4 Claims. (Cl. 197—114)



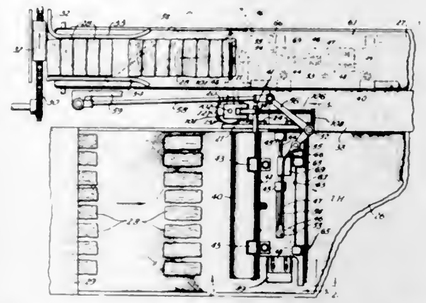
1. In combination in a recorder, a platen, an instrumentality associated with said platen, a pair of drive members cooperable with said instrumentality, spring loaded means for mounting said drive members for pivotal and reciprocative movements, and a pair of eccentric means individually associated with said drive members to actuate said members, said pair of means offset angularly with respect to each other, whereby said drive members are engageable alternatively with said instrumentality to impart rotation to said platen.

2,667,257
SPOOL FOR TYPEWRITER RIBBONS
Ricardo Hurtado S., Bogota, Colombia
Application February 19, 1952, Serial No. 272,347
2 Claims. (Cl. 197—175)



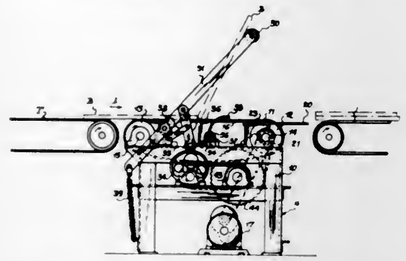
1. A sectional typewriter ribbon spool comprising: a lower disc adapted to be connected to the spool-rotating spindle of a typewriter for rotation thereby, said lower disc having a plurality of apertures spaced from its center of rotation; an inner sleeve secured to and upstanding from the lower disc, said inner sleeve being adapted to receive the spindle and being formed with a circumferential exterior rib; an upper disc spaced above the lower disc; an outer sleeve secured to and depending from the upper disc, and having a circumferential interior groove releasably engageable with said rib, said inner sleeve telescoping within the outer sleeve to separably connect the discs to one another; and a core adapted for the winding of a ribbon thereon circumposed about the sleeves, the core abutting at its opposite ends against the respective discs and including a plurality of lugs at one end proportioned to enter said apertures to separably connect the lower disc and core for joint rotation.

2,667,258
ARTICLE TRANSFER MACHINE
Oscar Sandberg, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind., a corporation of Indiana
Application March 25, 1950, Serial No. 151,837
12 Claims. (Cl. 198—21)



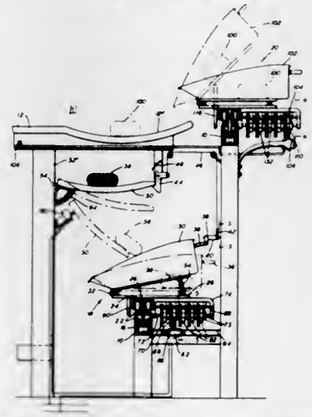
1. In an article transfer machine for transferring a plurality of articles from a delivery conveyor to a feed conveyor traveling side-by-side in opposite directions, a support, a vertical shaft supported thereby between said conveyors, a transfer head mounted on said shaft and normally positioned over said delivery conveyor to receive articles therefrom, a transfer plate spanning the distance between said conveyors, said shaft being oscillatable to swing said transfer head and a plurality of articles with it from said delivery conveyor across said transfer plate and to a position over said feed conveyor for deposit of said articles thereon, a clutch for oscillating said shaft through one cycle of oscillation, solenoid operated control means to initiate operation of said clutch, a switch for energizing said solenoid closed by the reception of articles in said transfer head, contact means associated with said vertical shaft wherein the contacts are engaged only when said transfer head is in normal position, and a circuit for said solenoid through said switch and contact means in series.

2,667,259
SHEET HANDLING APPARATUS
Clarence E. Parker, Painesville, Ohio, assignor to The Coe Manufacturing Company, Painesville, Ohio, a corporation of Ohio
Application September 1, 1951, Serial No. 244,843
2 Claims. (Cl. 198—33)



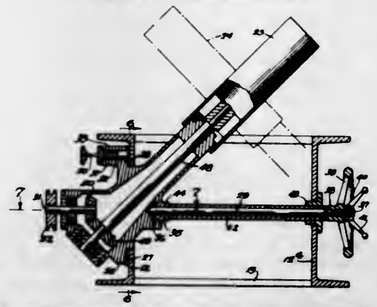
2. Apparatus for turning plasterboard and the like comprising, a conveyor adapted to move plasterboard units therealong in a generally horizontal plane, a pair of pivoted arms at opposite sides of said conveyor, a member attached to said arms and extending transversely of said conveyor and adapted to be swung from a position below the plane of travel of the plasterboard on said conveyor, cam means to operate said arms during a predetermined angular rotation thereof to raise and lower said member, means operable intermittently to drive said cam through said predetermined degree only, and means responsive to a plasterboard unit on said conveyor to initiate operation of the first-mentioned means.

2,667,260
CONVEYER SYSTEM
Harley G. Pyles, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 11, 1948, Serial No. 48,803
6 Claims. (Cl. 198—38)



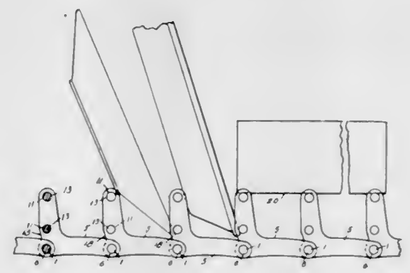
1. A selective conveyor system, which comprises a loader, a guide track, a carrier support movable along the guide track, means for moving the support along the track, a pan mounted pivotally on the support, means for tilting the pan with respect to the support, a plurality of actuators pivotally mounted on the support, each of the actuators being provided with a short arm and a long arm, means for engaging a short arm of one of the actuators to turn the actuator to a predetermined position in which the long arm thereof extends in a predetermined direction, and means for engaging the last-mentioned long arm to tilt the pan.

2,667,261
ROLLER CONVEYER
Franz Josef Berger, Neftenbach, Switzerland, assignor to American Wheelabrator & Equipment Corporation, Mishawaka, Ind., a corporation of Nebraska
Application September 26, 1951, Serial No. 248,305
7 Claims. (Cl. 198—127)



1. A roller conveyor comprising a plurality of aligned roller units in longitudinally spaced apart relation for conveying an elongate member in the longitudinal direction, each roller unit comprising a pair of conveyor rollers which cross each other intermediate their ends to form a cradle therebetween, means for adjusting each conveyor roller independently as about the surface of a cone to vary its angular relationship both in the vertical and horizontal direction, and means for securing the conveyor roller in the adjusted position and driving means for rotating each of the rollers about its axis.

2,667,262
LINK CONVEYING BELT
Patrick Henry Davis, Erie, Pa., assignor to Champion Dish Washing Machine Company, Erie, Pa., a corporation of Pennsylvania
Application June 8, 1949, Serial No. 97,883
3 Claims. (Cl. 198—131)

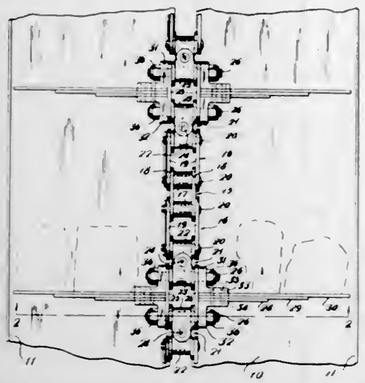


1. A traveling link belt comprising a series of longitudinally spaced, transversely extending rods, spaced apertured links for connecting said rods together, L-shaped links on the ends of said rods and intermediate thereof having vertically spaced apertures in the upwardly extending portions thereof, vertically spaced, horizontal supporting bars extending through the apertures in the upwardly extending portions of said L-shaped links, comparatively soft tubular spacing members disposed around said bars and between said upper portions of said links, and means for connecting said L-shaped links to said rods and bars, said horizontal bars being adapted to convey flat ware in a substantially vertical or in a flat position, the lower portion of the ware engaging the lower of said bars and the upper portion thereof engaging the upper bar of the next succeeding set of bars when vertically disposed.

2,667,263
FLEXIBLE FLIGHT FOR CHAIN CONVEYERS
William P. Bigler, Gates Mills, and Joseph G. Bigler, Willoughby, Ohio
Application February 20, 1953, Serial No. 338,044
4 Claims. (Cl. 198—171)

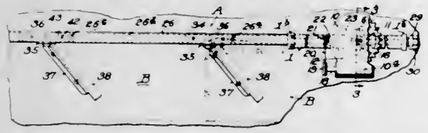
1. In an endless chain conveyor for bulk material in which the upper run of the chain travels over a flat trough with side walls, said chain comprising a pair of spaced universal links, flights interposed between said universal links extending laterally on both sides of the chain, each of said flights comprising a plurality of juxtaposed spring leaves of graduated length disposed on edge with the shortest in the rear, the inner ends of said leaves being clamped between and fastened to a pair of brackets having divergent legs parallel to

the direction of travel of the chain, studs connecting said universal links and said divergent



legs, and nuts threaded onto said studs and bearing against said legs.

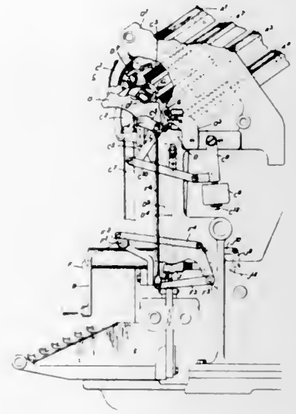
2,667,264
COW BARN GUTTER CLEANER
Charles G. Holloway, Elmira, N. Y.
Application November 19, 1952, Serial No. 321,410
18 Claims. (Cl. 198—224)



1. A gutter cleaner, comprising an elongated outer casing axially slidably mounted at one side of a gutter and having one end closed; a series of spaced inner casings connected together and axially movably mounted within the outer casing; a rod extending through the closed end and having a head on its inner end connected with the series of inner casings, said head being normally spaced from the closed end; said rod having a strap on its outer end adapted to engage said rod; means for reciprocating said rod; said outer casing having openings in its outer face opposite the respective inner casings; bearings removably secured across said openings; arms pivoted in said bearings and adapted in one position to extend across said gutter; paddles carried by the respective arms; and heads on the inner ends of said arms engaging pairs of abutments within the inner casings respectively, whereby as the rod is moved in one direction the arms will be initially pivoted into positions substantially normal to the outer casing before the outer casing is moved, and as the rod is moved in the opposite direction the arms will be initially simultaneously pivoted into positions substantially parallel with the outer casing before the outer casing is moved.

2,667,265
TYPOGRAPHICAL COMPOSING MACHINE
John H. Hilpman, Springfield Gardens, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application September 7, 1950, Serial No. 183,620
5 Claims. (Cl. 199—19)

1. In a typographical composing machine, the combination of two superposed inclined magazines provided with escapements, a hinged throat section to cooperate with either magazine and carrying a single set of escapement actuating members common to both magazines, said members being mounted to turn about the hinge axis of the throat section, a single set of fore-and-aft substantially horizontal levers pivoted at their rear ends and having their forward ends arranged in constant engaging relation to the lower ends of the escapement actuating members, two sets of vertically disposed reeds arranged one behind the other and one for each magazine, the upper ends of the reeds of both sets being arranged in constant engaging relation to the fore-and-aft pivoted levers at points between their opposite ends, a single set of vertically disposed

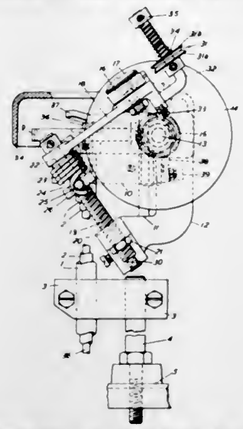


key-controlled actuators arranged below the reeds for direct engagement therewith, a supporting frame wherein the two sets of reeds are slidably mounted both at their upper and lower ends, said frame being hinged at the top on opposite sides of the machine and arranged to turn about an axis located between the two sets of reeds and near the upper ends thereof whereby the lower ends of either set of reeds may be brought into direct engaging relation to the key-controlled actuators without disturbing the constant engaging relation between the upper ends of the reeds and the fore-and-aft pivoted levers, and means for swinging the hinged throat section and the hinged reed supporting frame in unison to select either magazine for use.

2,667,266
YARN FURNISHING DEVICE
Charles Frederick Manger, Leicester, England, assignor to The Bentley Engineering Company Limited, Leicester, England
Application October 24, 1950, Serial No. 191,780
Claims priority, application Great Britain October 29, 1949
15 Claims. (Cl. 203—200)

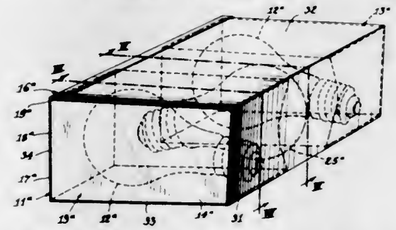
1. A yarn furnishing device comprising the combination of a rotary furnishing disc, a rotary furnishing roller cooperating with the face of the disc to grip the yarn, means for adjusting the roller towards and away from the center of the disc to vary the rate of yarn feed, a pair of meshing gears for driving the disc, a bracket mounted

for movement towards and away from one of the gears, a spindle in the bracket carrying the disc



and the other gear, and means for moving the bracket in order to disengage the gears.

2,667,267
PACKAGE OF FRAGILE ARTICLES
Harold Amatel, Glendale, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 17, 1949, Serial No. 93,754
1 Claim. (Cl. 206—65)

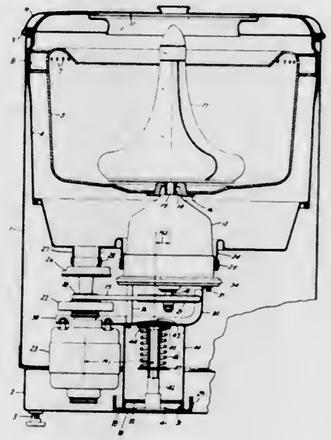


A package of three like incandescent electric lamps comprising an outer four-sided, open-ended paper casing having a corrugated interior wall, two four-sided open-ended paper wrappers also having corrugated interior walls, each containing an incandescent electric lamp and completely occupying an end space within said casing, the open ends of said wrappers being closed by side walls of said casing, the bases of said lamps pointing transverse to said casing and in the same direction, a bare lamp snugly disposed in said outer casing between said wrapped lamps, with its bowl end portion deflecting the wrappers thereof and its base pointing in a direction opposite to that of the bases of said wrapped lamps, the sides of said casing converging laterally from a normal wrapper-holding spacing toward the bowl end of said bare lamp and gripping the same, as well as compressing the base-containing portions of the wrappers on either side.

2,667,268
AQUEOUS SOLUTION INERT TO GELATIN
William C. Griffin, West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 22, 1951, Serial No. 217,077
6 Claims. (Cl. 206—84)

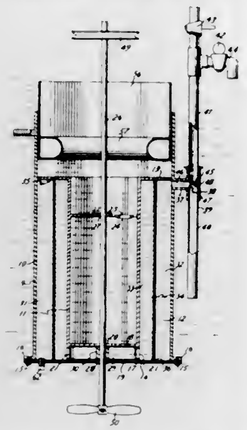
1. A sealed gelatin capsule, enclosing a liquid vehicle of an aqueous solution of a polyoxyalkylene ether of an aliphatic polyol, containing from 6 to 20 oxyalkylene groups per mol of polyol, wherein the oxyalkylene group contains from 2 to 3 carbon atoms, and where the ether constitutes at least 50% by weight of the total of water and ether, but not more than 95% of said total, said vehicle carrying a bodied component, not per se deleterious to gelatin.

2,667,269
SUPPORTING FRAME FOR CLOTHES-WASHING MECHANISM
Clifford L. Reitz, Trenton, N. J., and Edward G. Lipski, Bristol, and James F. Young, Erie, Pa., assignors to General Electric Company, a corporation of New York
Application May 26, 1950, Serial No. 164,382
10 Claims. (Cl. 210—72)



1. Support means for a washing machine of the type having a vertical axis basket in which the clothes are washed and spin dried, said machine having means for rotatably supporting the basket, and a motor for rotating the basket: comprising, in combination, a frame member fixed to said basket support means and having a motor supporting arm extending laterally therefrom with the motor center of mass displaced laterally from said basket axis, a rigid base frame, resilient means on said base frame, said means being symmetrical about a vertical axis through the center of mass of said combined frame member and the respective structures carried thereby and between said basket axis and said motor, a rigid pedestal secured to and disposed between said frame member and said resilient means, a rigid post fixed to said base frame at the axis of said resilient means and extending upwardly therefrom, friction pad means on said post member, and means for urging said friction means resiliently into contact with said frame member, said resilient means enforcing a critical speed gyratory vibration node at approximately the plane of said resilient means, whereby gyrations of the frame member during rotation of the basket at said critical speed will produce relative movement between said frame member and said friction pad.

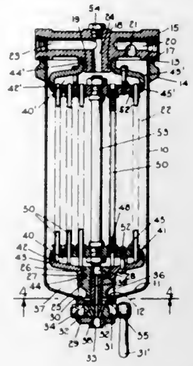
2,667,270
APPARATUS FOR FILTERING AND AGITATING PLATING SOLUTIONS
Stanley S. Cady, St. Paul, and Winston E. Sabatka, Minneapolis, Minn.
Application November 21, 1951, Serial No. 257,477
8 Claims. (Cl. 210—151)



1. In an apparatus for filtering plating solutions, a hollow exterior element, a hollow interior element within and in spaced relation to said hollow exterior element and providing therewith an annular chamber, a wall extending between portions of said hollow exterior and interior elements and closing an upper end of said annular chamber, a base member closing a lower end of said annular chamber and lower ends of said hollow exterior and interior elements, a pump cylinder within a lower portion of said hollow interior element, an inlet to said pump cylinder, an outlet from the pump cylinder to said annular chamber, a pump plunger in said pump cylinder, means for actuating said pump plunger, a hollow filtering element in said annular chamber in spaced relation to said hollow exterior and interior elements and having its opposite ends contiguous with said wall and said base member, respectively, an outlet from said hollow exterior element, a hollow interior member snugly fitted into and vertically slidable in an upper portion of said hollow exterior element, and a float member rigid with an interior lower portion of said hollow interior member.

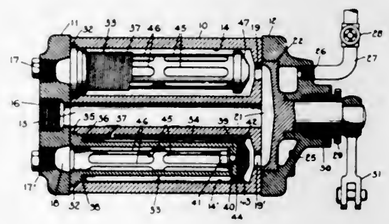
2,667,271
FLUID FILTER
Charles M. Tursky, Neshanic, N. J.
Application November 13, 1951, Serial No. 256,059
7 Claims. (Cl. 210—165)

1. A filter of the class described, comprising a casing having a valve controlled drain at the lower end thereof, a plate detachable with respect to the upper, open end of the casing, said plate having intake and discharge passages, a filter unit detachable with respect to the casing through the open end thereof, said drain and said plate having alined bearings for detachable mounting and alinement of the unit in the casing, said unit comprising identical chambered heads, said heads being formed by flat inner and sloping outer plates secured together to form the chamber therebetween, means coupled with the inner plates for joining and spacing said plates, the inner plates having alined apertures spaced circumfer ntially and radially thereon, filter coils seating in and extending between said alined apertures, said apertures opening into the chambers of said heads, open tubes freely mounted in and movable longitudinally of the filter coils and



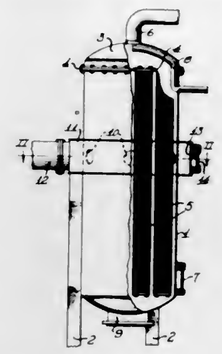
the apertures of said heads, the intake passage of said plate communicating with the casing, and the discharge passage of said plate communicating with the chamber of said head mounted thereon for discharge of filtered fluid from the device.

2,667,272
SELF-CLEANING FLUID FILTER
Charles M. Tursky, Englewood, N. J.
Application September 7, 1950, Serial No. 183,553
7 Claims. (Cl. 210—168)



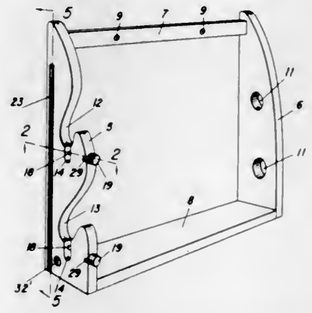
1. A fluid filter of the character described, comprising a casing having two pairs of opposed cylinders therein, end plates on said casing, one plate having an annular chamber communicating with all of said cylinders, said plate having means for discharging fluid from said chamber, said plate having an intake port, the casing having a passage communicating with said port and opening through the opposed end of the casing, a valve rotatably mounted in the other plate and having a passage communicating with the passage of said casing, said cylinders having ports controlled by said valve, said passage of the valve being adapted to be brought into registering position with the last named ports of opposed cylinders, the second named plate having a discharge chamber with discharge means communicating therewith, said valve having a pair of ports adapted to be brought into registering position with the ports of opposed cylinders to place said cylinders in communication with the discharge chamber of said second named plate, means externally of the second named plate for actuating said valve, and filter elements supported in each of said cylinders.

2,667,273
MANIFOLD FOR CLARIFIER INTAKES
Alfred W. Gardes, Detroit, Mich., assignor to Honan-Crane Corporation, Lebanon, Ind., a corporation of Indiana
Application December 23, 1950, Serial No. 202,538
2 Claims. (Cl. 210—184)



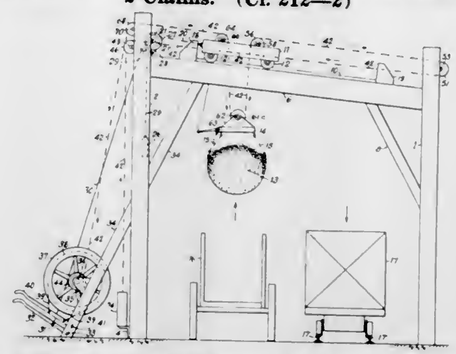
1. In a liquid clarifying apparatus, a tank having an outlet for filtrate, filtering means in said tank, said tank having a circumferential series of spaced inlet openings in an intermediate location of the side wall, a manifold in the form of an inwardly open three-sided channel with the radial side edges fixedly secured to said tank on each side of said series of inlet openings to admit contaminated liquid under pressure to said openings and reinforce said tank against expansion, an inlet pipe connected to the outer side of said manifold, and the inner open end of said pipe being opposite a wall portion of said tank between openings in said series which wall portion is solid the full width of said manifold.

2,667,274
GUNRACK
Frank Diebold, San Francisco, Calif.
Application January 21, 1953, Serial No. 332,170
3 Claims. (Cl. 211—64)



1. A gun rack frame comprising a pair of spaced end pieces, one of said end pieces having openings formed therethrough for the reception of gun barrels, the other of said end pieces having recesses formed therein in horizontal alignment with said holes, a slot formed in each of said recesses adapted to position the trigger guard of a gun and locking pins slidable in said last mentioned end, one for each of said slots and passing across said slots.

2,667,275
COMBINED HOISTING AND WEIGHING DEVICE
Avelino Fernández Llanusa, Manzanillo, Cuba
Application December 30, 1950, Serial No. 203,587
2 Claims. (Cl. 212—2)

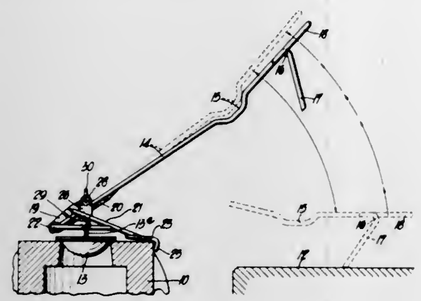


1. In a combined hoisting and weighing device, the combination with a supporting framework comprising two slightly inclined beams and end upright members supporting the ends of said inclined beams, a track on said inclined beams, and a truck movable on said track and provided with two pairs of pulleys, of driving means comprising a horizontal driving shaft rotatably supported on braces fixed at their lower ends to the ground and at their upper ends to the inclined beams adjacent the higher end upright member, a driving wheel keyed to the central portion of said shaft, and a pair of drums keyed to said shaft at each side of said driving wheel, a pair of ball-bearing pulleys idly supported at the upper portion of the higher end upright member, a pair of ball-bearing pulleys idly supported at the upper portion of the lower end upright member, a load suspension frame carrying two ball-bearing pulleys idly supporting thereon, a weighing scale in front of the driving means and near them, and a single load suspension cable the end portions of which are wound about said drums respectively and extend upwardly around the ball-bearing pulleys supported on the higher end upright member of said framework and pass from one end to the other end of the supporting framework across the truck and are then reversed in an opposite direction by the pulleys supported at the upper portion of the lower end upright member of the framework to be guided to beneath the truck by passing around the pulleys of the truck to pass around the pulleys of the load suspension frame, said single cable forming at its middle portion a downwardly incidence angle suitably connected to the beam of the weighing scale, whereby as the load is hoisted and kept in suspension from said cable the weight of the load will be registered on the weighing scale in any position of the truck carrying the load suspension frame.

2,667,276
DEVICE FOR TRANSFERRING INGOT MOLD CAPS
Alden W. Peterson, Lorain, Ohio, assignor to United States Steel Corporation, a corporation of New Jersey
Application May 8, 1951, Serial No. 225,138
2 Claims. (Cl. 212—4)

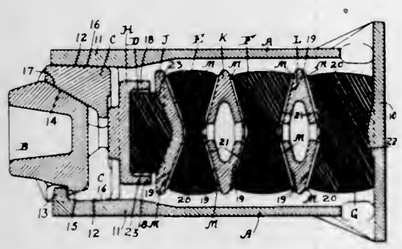
1. A device for transferring ingot mold caps between an ingot mold and a pouring platform comprising an elongated member adapted to

bridge the space between a mold and a platform, a downwardly depending yoke connected at its upper end to said member adjacent one end of the latter, the lower end of said yoke being adapted to rest on the top of the mold, indexing fingers pivoted to said yoke adjacent the lower end thereof and adapted to engage over an upper edge of the mold, a leg connected at its upper end



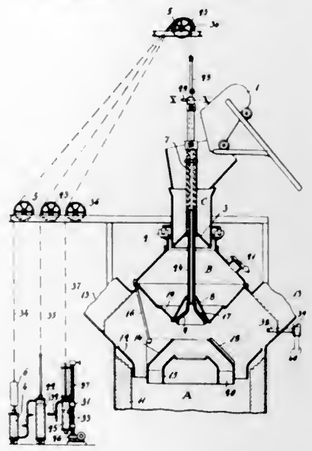
to said member adjacent the other end thereof, the lower end of said leg being adapted to rest on the platform, spaced apart stop means on said member, a trolley mounted on said member for movement therealong between said stop means, and a hook carried by said trolley and adapted to engage a mold cap.

2,667,277
FRICTION SHOCK ABSORBER FOR RAILWAY DRAFT RIGGINGS
Harry W. Mulcahy, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application April 8, 1950, Serial No. 154,793
6 Claims. (Cl. 213—32)



1. In a friction shock absorbing mechanism, the combination with a friction casing; of friction shoes slidingly telescoped within the casing; a pressure transmitting block in wedging engagement with the shoes; and yielding means within the casing opposing inward movement of said shoes, said yielding means including a series of rubber pads, rigid spacing members alternated with said pads, and friction plates interposed between said spacing members and pads, said spacing members having friction surfaces inclined to the longitudinal axis of the mechanism, said plates being fixed to the pads and having sliding engagement with the friction surfaces of said spacing members.

2,667,278
APPARATUS FOR CHARGING SHAFT FURNACES
Erik Torsten Anderson Tesch, Stockholm, and Isak Edvin Johansson, Alvsjo, Sweden
Application June 20, 1952, Serial No. 294,626
Claims priority, application Sweden January 9, 1952
3 Claims. (Cl. 214—36)

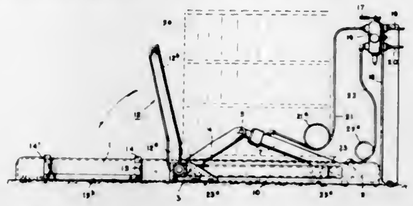


1. Apparatus for charging a shaft furnace, particularly a blast furnace, comprising a charging hopper, an upper conical bell closing the bottom opening of the hopper and adapted to be raised above its closing position, a lower bell having a diameter smaller than the bottom opening of the hopper and adapted to be either raised above or lowered below the bottom opening of the hopper, and a pair of fixed, spaced frustoconical stock distributors arranged one above and around the other having aligned central passages of diameter slightly greater than the diameter of the lower bell so that the bell may be lowered to positions in which it will close the central passage through one or the other of the stock distributors, the apparatus serving to provide a central charging of the furnace by the passage of charging stock through the central passages of the frustoconical stock distributors when both bells are raised within the charging hopper, to provide a circumferential charging of the furnace when the lower bell is positioned within the uppermost stock distributor, and to provide an intermediate annular charge to the furnace when the lower bell is positioned within the central passage in the lower stock distributor.

2,667,279
HOGSHEAD HANDLING APPARATUS
Francis B. Fishburne and William L. Rice, Asheville, N. C.
Application January 8, 1951, Serial No. 204,968
4 Claims. (Cl. 214—38)

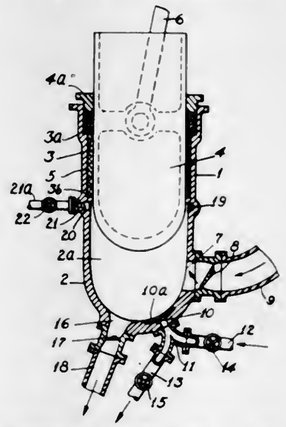
2. Apparatus for unloading a hogshead from a dolly adapted to support the same on a floor, comprising a horizontal rock shaft, a flat frame rigidly carried by said shaft substantially in the plane thereof and capable of lying in a horizontal plane adjacent the floor, said frame being of such size and thickness that the dolly may be rolled into position over it with the dolly wheels straddling said frame while resting wholly on the floor, power means for rocking said shaft so as

to tilt said frame and dolly into such an inclined position that the hogshead tips over on its side, leaving the dolly supported on said frame, and stop means also carried by said shaft for catching



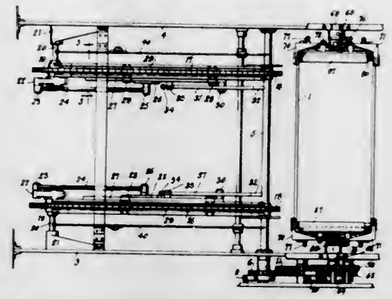
the hogshead as it tips over, said power means being constructed to effect a further movement of said shaft to lower said catching means until the side of the hogshead reaches a substantially horizontal position.

2,667,280
HANDLING FINELY DIVIDED SOLID MATERIALS
Stanley C. Lane, Roselle, and Herbert H. Vickers, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application April 1, 1949, Serial No. 84,988
6 Claims. (Cl. 214—152)



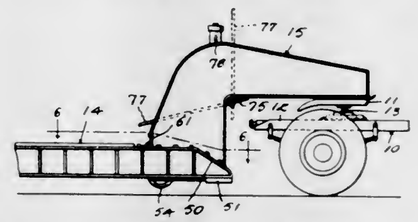
1. In a system for handling finely divided solid materials, including an initial pressure zone containing fluidized finely divided solid materials, a zone of higher pressure, and an intermediate zone of variable volume and pressure, a method for transferring said solid materials from the initial pressure zone to said zone of higher pressure comprising introducing a measured quantity of fluidized finely divided solid materials from said initial pressure zone into said intermediate zone, under substantially the pressure of the initial zone, injecting a stream of pressurized gaseous material upwardly into said intermediate zone and the finely divided solid materials therein, maintaining fluidity of said materials and raising the pressure of said zone substantially to that of the zone of higher pressure, and then displacing said solid and gaseous materials from the intermediate zone into said zone of higher pressure primarily by reducing the volume of said zone, while continuing to inject said gaseous material as required to maintain fluidity of said solid materials during displacement thereof, and substantially without compacting said solid materials.

2,667,281
TRAY DUMPING MECHANISM FOR CONFECTIONARY MACHINES
George S. Perkins, New York, N. Y., assignor to National Equipment Corporation, New York, N. Y., a corporation of New York
Application June 17, 1950, Serial No. 168,830
2 Claims. (Cl. 214—312)



1. In a confectionary machine, a rotative tray-dumping device, conveying means for moving successive trays thereto, said dumping device having a pivot extending transversely to the direction of movement of the trays by the conveying means, the dumping device including a tray-support on which one tray is maintained in an upwardly-disposed position and another in an inverted dumping position, aligning means for the trays while on the dumping device comprising spring-pressed shoes between which each tray is positioned while on the tray-support, clamping means for holding the trays on the support comprising upper and lower pairs of pivoted clamping fingers engaging over the tops of the trays, and cam means for causing release of the upper pair of clamping fingers while the lower pair of fingers is maintained in clamping engagement with the inverted tray on the tray-support.

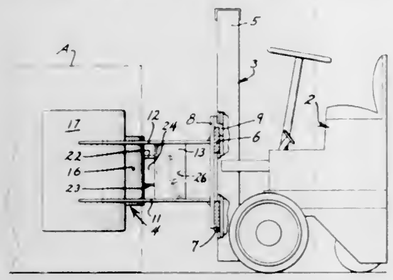
2,667,282
TRAILER DRAWBAR
Dean A. Parker, Richmond, Mich.
Application November 24, 1950, Serial No. 197,393
6 Claims. (Cl. 214—506)



1. In combination a tractor vehicle having a fifth wheel, a trailer, an inverted L-shaped drawbar having a forward end attached to said fifth wheel, reciprocably slidable movable means mounted on said drawbar for vertical movement with respect thereto, whereby said movable means may assume various heights above the ground, actuating means comprising a jack screw secured to said movable means, a nut threadably engaging said jack screw, and means for rotating said nut, said last-mentioned means comprising a power take-off means on said tractor vehicle and means drivingly connecting said nut with said power take-off means, said actuating means being adapted for raising or

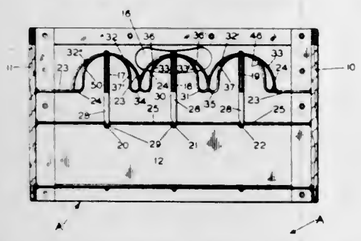
lowering said movable means, and coupling means for connecting the forward end of said trailer to said movable means, whereby the height of said trailer forward end may be varied.

2,667,283
LIFT TRUCK
William W. MacDonald and John R. Pomfret, San Francisco, Calif., assignors, by mesne assignments, to Peterbilt Motors Company, a corporation
Application February 7, 1948, Serial No. 6,952
1 Claim. (Cl. 214—653)



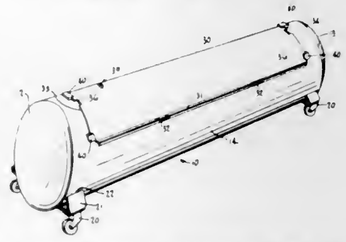
In a lift truck having a hoisting mechanism, the combination of a rigid frame, a connection to connect said frame to said hoisting mechanism comprising a rotatable element, a rigid arm having an arcuate load engaging surface connected rigidly to said frame, a movable arm connected pivotally to said frame and spaced from said rigid arm, a clamp plate having an arcuate load engaging surface mounted pivotally on said movable arm, an arcuate load support connected rigidly to said frame and disposed between said rigid arm and said plate, means connected to said frame to move said movable arm and plate toward and away from said rigid arm, and means connected to said frame to rotate said frame and attached arms about the axis of rotation of said rotatable element, said last named means comprising a cylinder secured pivotally to said lift truck, and a piston having a piston rod reciprocal in said cylinder, said piston rod connected pivotally to said frame.

2,667,284
MILK BOTTLE CRATE
Edward G. Hoch, Minneapolis, Minn.
Application February 27, 1950, Serial No. 146,553
2 Claims. (Cl. 217—20)



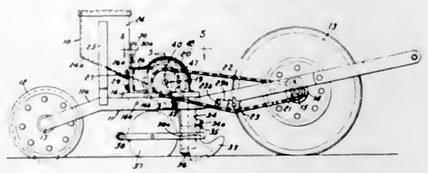
1. A crate for storing either square or round bottles, comprising individual bottle receiving, rectangular compartments disposed within said crate, some of said receiving compartments being formed of a series of partition members, the remaining compartments being formed by said side and end walls and said partition members, each of said partition members having a pair of downwardly inclined cam surfaces forming shoulders on the top edge thereof in some of said compartments, one of said shoulders being wide and the other narrow, with the wide shoulder of one partition member opposite the narrow shoulder of an immediate adjacent parallel partition member, whereby a square bottle of milk is caused to rotate automatically and fall into its respective compartment when the corners of the bottle engage said cam surfaces.

2,667,285
CYLINDRICAL CONTAINER WITH SLIDABLE CLOSURE
Charles E. Misch, New York, N. Y.
Application June 24, 1950, Serial No. 170,096
5 Claims. (Cl. 220—41)



1. A dough trough comprising a cylindrical container having end walls and an opening in the cylindrical portion, said end walls merging gradually into the cylindrical portion so as to present a smooth continuous interior surface, and a cylindrically curved closure for said opening, said closure comprising a flat rectangular sheet of material curved into cylindrical shape and having an under surface whose radius of curvature is identical with that of the external surface of the container, said closure being adapted to rest directly against and to slide on said container from an open position to a closed position covering the opening, said container being provided with a plurality of circumferentially spaced closure retaining brackets each of which presents a face of relatively minute area toward the cylindrical surface of the container, the closure being guided by said brackets and establishing tangential contacts with them.

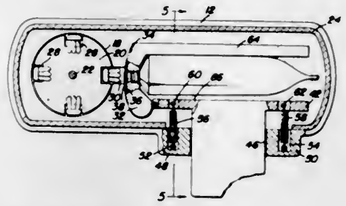
2,667,286
SPLIT SEED WHEEL FOR PLANTERS
Arthur V. Raught, Birmingham, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware
Application August 29, 1950, Serial No. 182,042
8 Claims. (Cl. 222—9)



1. For use with a planting machine having a seed hopper, a seed selecting wheel disposed with a portion of its periphery movable through the hopper, said wheel comprising a rotatable body portion, a disc like side plate, means yieldingly securing said side plate against the radial face

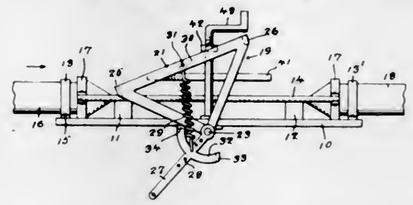
of said body portion, said body portion and said side plate having alignable peripheral recesses in their abutting surfaces defining seed cells when aligned, and means for separating a peripheral portion of said side plate from said body portion at a location remote from said hopper for dislodgement of a seed retained in said seed cell.

2,667,287
TOOTHBRUSH HOLDER AND TOOTHPASTE DISPENSER
Leon S. Cook, Enid, Okla.
Application October 13, 1949, Serial No. 121,078
1 Claim. (Cl. 222—126)



A tooth paste dispenser comprising a base having an opening therein, means for mounting a paste dispensing container on said base, a housing including a top, mounted on the base and enclosing the container, a shaft journaled in the top and depending therefrom, a disk on the lower end of the shaft, operable in the opening, means for mounting a plurality of tooth brushes on the disk, and an operating knob on the upper end of the shaft for rotating the disk for selectively positioning the tooth brushes for receiving paste from the container, said knob resting on the housing top for suspending the shaft therefrom.

2,667,288
FLEXIBLE WALLED MEASURING POCKET WITH INLET AND OUTLET CUTOFFS
Herman Mach, Porterville, Calif.
Application September 8, 1949, Serial No. 114,619
9 Claims. (Cl. 222—207)



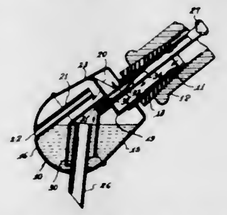
1. In a dispensing device, a mounting plate, a flexible bladder supported on said plate, a first conduit connected to one end of said bladder for conveying fluid material from a source of supply, a second conduit connected to the other end of said bladder for conveying fluid material to a desired location, means for selectively arranging said bladder in communication with said first and second conduits, manually operable means for varying the size of said bladder, said last named means comprising a U-shaped bracket mounted on said plate and straddling said bladder, a block arranged within said bracket adjacent one side of said bladder for contact therewith, and a crank mounted in said bracket and connected to said block for adjusting the position of said block to compress the bladder to thereby vary the size of said bladder.

2,667,289
DEVICE FOR DISPENSING LIQUIDS FROM TANKS BY EITHER PUMPING MEANS OR PNEUMATIC MEANS
Anthony J. Daniels, Philadelphia, Pa.
Application October 27, 1950, Serial No. 192,559
6 Claims. (Cl. 222—278)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A device for selectively dispensing liquid from sealed containers mechanically or pneumatically comprising a pump including a housing having a hollow base adapted to be secured to an opening in said container to mount said pump thereon, structure in said base and cooperating therewith to define isolated passageways therethrough including a passageway forming an inlet to said pump and a passageway for admitting air under pressure to the uppermost part of the container, means forming an outlet conduit of sufficient length to extend from the first mentioned passageway in said base to the lowermost region of the container, said housing also having a pump outlet formed therein, means forming a by-pass passageway between the inlet to said pump and its outlet, and a valve to control communication through said by-pass passageway.

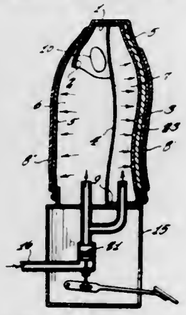
2,667,290
LIQUID DISPENSER FOR BOTTLES
James E. McPhee, Culver City, Calif.
Application July 30, 1951, Serial No. 239,275
6 Claims. (Cl. 222—416)



1. A liquid dispenser of the character described for use on a bottle, said dispenser having: a hollow dispenser body; a tube connected with said body and adapted to seat in a sealed manner in the mouth of the bottle both to support said body and to provide a passage for flow of liquid from the bottle into the body when the bottle is tipped; a pouring tube mounted in said body for discharging flow therefrom, the inner end of said tube extending inward to the interior of the body; a vent tube mounted in said body for communication with the atmosphere, the inner end of said

tube extending to a point above the inner end of said pouring tube when the body is tipped into pouring position; an air tube extending through said neck tube for the passage of air from said body into the bottle when the bottle is tipped, the outer end of said air tube having a restricted opening to minimize the entrance of liquid from the bottle; a continuous wall inside said body forming an extension of the inner end of said air tube, said wall enclosing the inner portion of said pouring tube to cooperate therewith to form a pouring siphon; and a strip of material mounted in said air tube longitudinally thereof near said continuous wall to divert any liquid meniscus in the air to one side of the air tube to avoid blocking airflow therethrough.

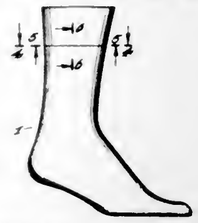
2,667,291
PRESSING BUST
Erwin Petrich, Augsburg-Goggingen, Germany, assignor of one-half to Kleindienst & Co., offene Handelsgesellschaft, Augsburg, Germany
Application June 1, 1951, Serial No. 229,309
8 Claims. (Cl. 223—70)



1. A garment finishing apparatus of the character described, comprising a base, a hollow garment supporting form mounted upon said base and including a rigid front part having arm holes and being shaped in accordance with the shape of the garment to be finished and having openings for the passage of gas, a rigid rearward part extending from the top down to the arm holes only, a partition wall disposed in the middle region of the form, between the front and rearward parts thereof and substantially parallel to the axis of the form, and a flexible covering which is permeable to gas and forms an all-round cover tightly connected to the base and defining a front chamber between the partition wall and said front part and a separate back chamber between the partition wall and the rearward portion of the covering, gas pipes connected to said chamber and valve means in said gas pipes for simultaneously producing in said separate chambers different and changing gas pressures which are independent of each other.

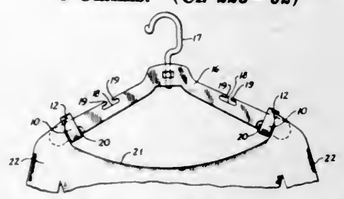
2,667,292
DISPLAY FORM FOR SOCKS AND STOCKINGS
Stanley Nettler, Great Neck, N. Y.
Application March 2, 1951, Serial No. 213,551
1 Claim. (Cl. 223—75)

A display form for hosiery comprising a hollow primary form member having a bottom section in the form of a human foot and further having a flat horizontal seat terminating in a downwardly and inwardly turned flange, and at least one secondary member having a horizontal base section adapted to engage said seat of said primary form, said base section merging with the



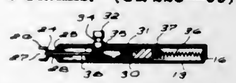
sides of a depending cup having a flat bottom, said flange engaging said side of said cup at a circular line of tangency.

2,667,293
SLIT RUBBER NIB FOR GARMENT HANGERS
Dorothy Jacob, Brooklyn, N. Y., assignor of ninety-nine per cent to Helen Unterman, Brooklyn, N. Y.
Application January 3, 1952, Serial No. 264,702
3 Claims. (Cl. 223—92)



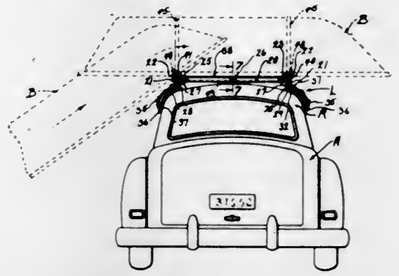
1. A nib adapted to be applied to a garment hanger having a pair of oppositely extending, angularly disposed arms and comprising a hollow, oval-shaped thin, resilient and elastic body portion adapted to fit over and accommodate itself to such garment hanger arms and provided with a relatively thick, upwardly tapering top portion having a rounded apex, the relatively thick top portion being provided adjacent its juncture with the body portion with a slit extending from one edge thereof toward but terminating short of the opposite edge, said slit being adapted to receive and frictionally hold a garment therein.

2,667,294
NEEDLE THREADER
Karl Hoeckele, Newark, N. J.
Application September 28, 1950, Serial No. 187,195
3 Claims. (Cl. 223—99)



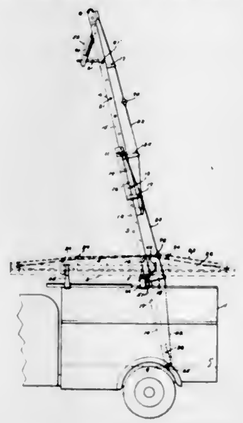
1. In a threader, an elongated hollow body having a base and a cover shaped to conform to and mate with the base, a movable block in said body resiliently urged forwardly and manually retractable rearwardly, a recess in said block, a threading tongue mounted in said recess, the forward ends of said base and said cover having spaced extension lips, the forward ends of said lips having a transverse needle receiving channel therebetween, the rear ends of said lips including a narrow space for passage of the threading tongue, said tongue having a thread receiving portion for holding the thread during forward movement of the block, said needle receiving channel having slot means for receiving a thread, and manual means for releasably locking the block in retracted position.

2,667,295
TURRET TYPE LUGGAGE CARRIER FOR AUTOMOTIVE VEHICLES
Allen Johnston and Leo F. Lotter, Oconto Falls, Wis.
Application November 12, 1952, Serial No. 319,856
2 Claims. (Cl. 224—42.1)



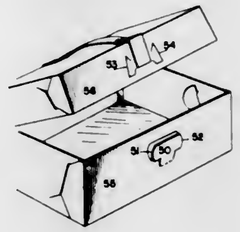
1. A turret type luggage carrier for carrying a boat and the like on the roof of an automotive vehicle comprising, a tubular ring frame, a series of spaced radially extending legs rigidly secured to said ring, a cross bracket secured to each leg intermediate its ends, said bracket detachably carrying a suction cup at its respective end terminal, a central off-set portion formed in each bracket at the point where the bracket is secured to said leg, whereby the height of each leg above the roof may be varied by reversing the bracket, an end hook for each leg adapted to engage the roof rain gutter, a turret positioned above said ring and having its inner periphery terminating beyond the outer periphery of the ring, a series of spaced inwardly and downwardly directed sleeves rigidly secured to said turret, each sleeve terminating in a U-shaped end adapted to be slidably mounted on said ring, and means for detachably fastening a boat to said turret.

2,667,296
AERIAL LADDER
Herman J. Troche, Fairview Park, and James Howard Holan, Rocky River, Ohio, assignors to J. H. Holan Corporation, Cleveland, Ohio, a corporation of Ohio
Application February 18, 1950, Serial No. 145,056
2 Claims. (Cl. 228—48)



1. For use with a ladder, the sub-combination of a ladder pivot and clamping means comprising, in combination with a support, a pivot bar mountable on the support, a clamp pivotally mountable on the ladder and having a projecting jaw on one side of its pivotal mounting and a tail piece upon the opposite side, springs normally holding the jaw in clamping position on the pivot bar, means for unclamping the jaw, a lug on the bar limiting the unclamping movement of the clamp when the jaw thereof has been pivotally moved to unclamping position, the tail piece of the clamp riding on the lugs to push the ladder and the clamp away from the pivot bar upon further movement of the unclamping means.

2,667,297
HANDLED CARTON FOR BAKERY PRODUCTS AND THE LIKE
Ronald McReary, Corvallis, Oreg.
Application April 3, 1950, Serial No. 153,553
2 Claims. (Cl. 229—44)

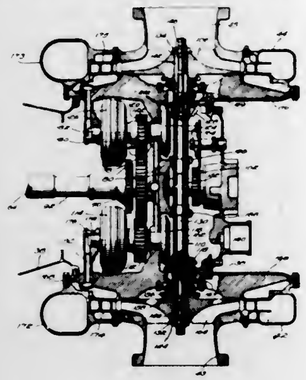


1. In a handled carton of the character described having a bottom section with front and side walls and a hinged cover section with front and side walls extending over said walls of said bottom section respectively, an upwardly-extending flap centrally located on said front wall of said bottom section, the top portion of said flap broadened to form a pair of tongues extending laterally from opposite side edges of said flap, a pair of locking slits for said tongues on said front wall of said cover section, and a strap-like handle on said cover section extending from said front wall of said cover section to the rear of said cover section, the front end of said handle centrally secured on said cover section front wall between said slits, said slits spaced apart a distance only slightly greater than the width of said secured front end of said handle, said flap, said tongues and said slits so constructed and arranged that the upward pull on the forward end of said handle, when said carton is carried by said handle, will be transferred directly to said flap without excessive strain on said cover front wall.

2,667,298
ARRANGEMENT OF OPPOSED SUPERCHARGERS
Chester R. Wells, Rocky Hill, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application June 17, 1948, Serial No. 33,456
15 Claims. (Cl. 230—11)

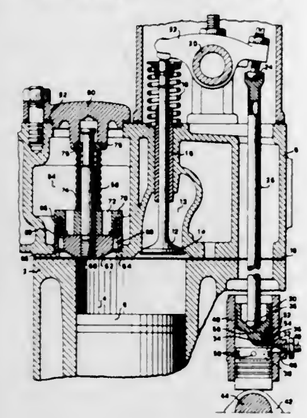
1. In a power plant, an engine and a supercharger arrangement, the latter including an impeller mounted on each side of said engine, a shaft assembly connecting said impellers and being supported by said engine, two separate driving means mounted between said engine and

said shaft assembly for selectively driving the impellers, each driving means including a sur-



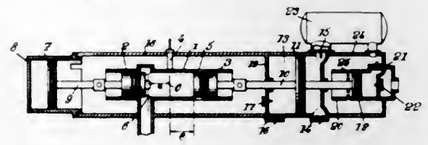
rounding sleeve mounted around said shaft assembly and being splined thereto.

2,667,299
COMPRESSOR INLET VALVE ACTUATING MECHANISM
Alfred N. Gustafson, West Chester, Pa., assignor to Schramm, Inc., West Chester, Pa., a corporation of Pennsylvania
Application April 14, 1950, Serial No. 155,968
3 Claims. (Cl. 230—30)



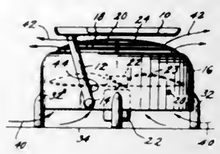
1. In a compressor including a piston reciprocating in a cylinder and an exhaust valve assembly for said cylinder, an inlet valve operatively associated with said cylinder, a seat for the inlet valve, a spring acting on said inlet valve to seat said valve, a cam shaft, a cam carried by said shaft, and means operatively connecting said cam and said inlet valve to produce unseating motion of said inlet valve in response to rotation of said cam, said connecting means including means providing a cylinder, a pair of relatively movable pistons within the cylinder provided with interengaging means to limit separation thereof, and means for introducing compressed fluid between said pistons to separate them and so effectively to elongate said connecting means between said cam and said inlet valve to produce unseating motion of the valve by the cam in which the valve remains unseated throughout the range of movement of the cam.

2,667,300
FREE PISTON MACHINE THE COMPRESSOR PORTION OF WHICH INCLUDES AT LEAST TWO STAGES
Robert Huber, Bellevue, France, assignor to Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A., Geneva, Switzerland, a society of Switzerland
Application June 9, 1950, Serial No. 167,062
Claims priority, application France June 14, 1949
5 Claims. (Cl. 230—56)



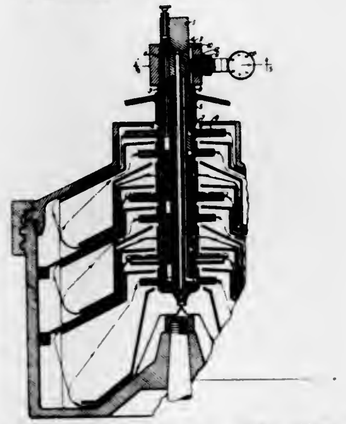
1. A free piston machine which comprises a power portion including a cylinder and a piston freely slidable in said cylinder and a compressor portion including two compression stages, each constituted by one cylinder and one piston running therein, the ratio of swept volume plus clearance volume to clearance volume in the first of these two stages being higher than in the second of these stages, the cylinders of the power portion and of the respective compressor stages being rigid with one another and the pistons of the power portion and of the respective compressor stages being rigid with one another, an intermediate reservoir in communication with the discharge of the first stage, means forming a chamber surrounding the second stage compressor cylinder and in communication with said intermediate reservoir, the cylindrical wall of said second stage compressor cylinder being provided with ports located so as to delay the beginning of compression in said cylinder during the compression stroke of its piston so as to make the beginning of discharge simultaneous in both stages.

2,667,301
DUAL-PURPOSE FAN
Max E. Lautner, Webster Groves, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware
Application September 15, 1951, Serial No. 246,745
8 Claims. (Cl. 230—259)



1. In a dual purpose fan, a cylindrical shroud, a fan mounted therein for circulating air in a direction axially through said shroud, a combined supporting base and deflector, an upright therefrom for supporting said shroud in position for circulating air substantially horizontally therethrough, said shroud having supporting legs extending from one end thereof to permit the support of said shroud spaced from a floor surface to circulate air upwardly through said shroud, said upright being pivoted to said shroud to permit said combined base and deflector to be swung to a substantially horizontal position above said shroud to radially deflect the air after it is circulated upwardly therethrough by said fan.

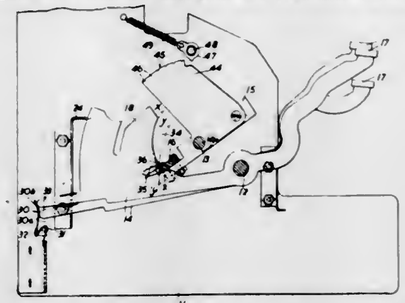
2,667,302
CENTRIFUGE CONNECTION
Carl Schmitz and Heinrich Hemfort, Oelde, Westphalia, Germany, assignors to Westfalia Separator AG., Oelde, Westphalia, Germany, a German corporation
Application February 24, 1950, Serial No. 146,006
Claims priority, application Germany March 14, 1949
9 Claims. (Cl. 233—1)



1. In a centrifuge having an extraction stationary external central shaft portion provided with longitudinal conduit passages, the improvement comprising means defining on said shaft portion opposing outer substantially flat parallel surfaces, means defining first ducts from said surfaces to said passages, and a removable manifold collar around said shaft portion having two opposing inner surfaces substantially fitting said outer shaft surfaces, means defining second ducts leading from outside said collar to said inner surfaces, one for and in substantial registry with each of said first ducts, means for substantially sealing each duct-to-duct area against liquid leakage, and means on said second ducts for removably securing conduits in liquid-tight connection therewith.

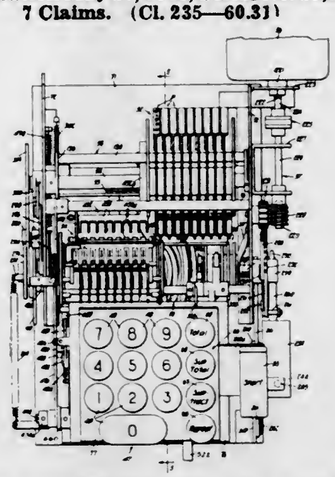
2,667,303
CASH REGISTER KEY COUPLER MECHANISM
Henry Gross and Samuel Gross, East Finchley, London, England
Application March 20, 1951, Serial No. 216,536
Claims priority, application Great Britain March 30, 1950
7 Claims. (Cl. 235—15)

1. In a calculating machine, a series of operating key levers pivoted on a common axis, a projection extending upwardly from each said lever, each projection being undercut to form with its lever a notch having a tip at the upper side of its mouth, a coupler bar overlying the key levers and having an edge portion engageable with said levers, said bar being pivotable about an axis so disposed in relation to the axis of the key levers that the arc traversed by said edge portion intersects the arc traversed by the tips of the lever notches, means for rocking the coupler bar through a fixed distance to a pre-set position in which the said edge portion thereof is short of the arc traversed by the tips of the lever notches, and in which position said bar serves to arrest the actuated key levers in an intermediate position of their operative movements against a light pressure, and means for resiliently retaining the actuated operating key levers in said intermediate position, the coupler bar in said pre-set position permitting any such actuated key lever to be returned independently to its initial position against the action of said resilient retaining means, while further movement of the coupler bar beyond the pre-set position causes its



edge portion to engage the tips of the notches in the actuated key levers and thereby move said levers beyond their intermediate positions, the said further movement of the coupler bar being effected under a greater pressure by the actuation beyond its intermediate position of an operating key lever.

2,667,304
CALCULATING MACHINE
Robert S. Wallach, Bernardsville, N. J., and Torkel E. Torkelson, Baldwin, N. Y., assignors to Associated Development and Research Corporation, New York, N. Y., a corporation of New York
Application May 27, 1948, Serial No. 29,476
7 Claims. (Cl. 235—60.31)



5. In a computing machine, the combination of an accumulator having dial wheels with numerals from 0 to 9 thereon, pinions on the dial wheels, computing wheels, means including carry-over devices, one for each dial wheel, cooperative carry-over members, one on each dial wheel to actuate the associated carry-over device, a carriage for the computing wheels, means to urge the carriage in one direction, an escapement for said carriage, a total key, means operated by the total key to lock all of the carry-over devices against actuation by the carry-over members, means to release said carriage from the escapement, means to stop the carriage to locate the computing wheels in register with the dial wheel

pinions, a general operator, means settable by the total key, the settable means being operable by the general operator to actuate the accumulator into engagement with the computing wheels while the latter are in their normal positions, means to actuate the computing wheels to rotate the active dial wheels until said cooperative carry-over members engage the associated carry-over devices to thus return the dial wheels to 0 and transfer the total registered on the accumulator to the computing wheels, types on the computing wheels to register the total at a printing line, a platen, means actuable by the general operator to cause the platen to cooperate with the registered types to print the total, means operable by the general operator to return the computing wheels to normal on the carriage, and carriage return means actuable by the general operator.

2,667,305

AIR NAVIGATIONAL DEVICE FOR COMPUTING CORRECTIONS FOR TRACK ERRORS

Alfred Ernest Jones, Kingston-on-Thames, and Norman Charles Hayes, Worcester, England

Application March 20, 1951, Serial No. 216,538
3 Claims. (Cl. 235—61)



1. A portable air navigational device for use by a navigator when flying for computing corrections for track errors, comprising a transparent rectangular plate to one end of which is pivoted on a fixed axis one end of an angularly adjustable arm extending along the plate, a line scribed or otherwise marked lengthwise along the plate, which line intersects the pivotal axis of the said arm to indicate against a chart the course to be made good, the transparent plate having formed at lengthwise intervals thereon graduations indicating the distance against the chart covered by the said line and also graduations of a trigonometric pre-solved scale to be read against the arm for indicating the track error of the aircraft in degrees relative to the predetermined course, a transverse cursor bar slidable along said plate, and a set of longitudinal distinctive ground speed lines each with a set of time interval markings, each of said latter set of markings having a uniform spacing which is distinctive as compared with any of the other time markings, said cursor bar intersecting both said ground speed lines and said distance graduations.

2,667,306

WITHDRAWN

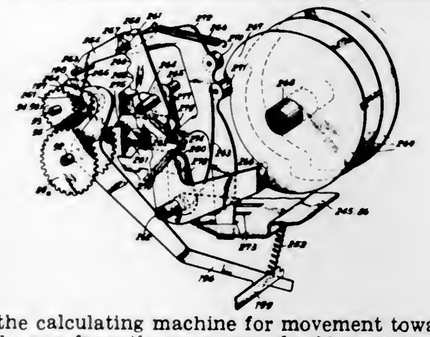
2,667,307

TRANSFER MECHANISM FOR CALCULATING MACHINES

Karl Westinger, Ernst Altenburger, and Otto Hirt, Oberndorf, Neckar, Germany

Application January 3, 1952, Serial No. 264,774
Claims priority, application Germany January 4, 1951
12 Claims. (Cl. 235—137)

1. A tens-carrying mechanism for the revolution counter of a calculating machine having a numbered wheel, comprising in combination, a cam joined to the numbered wheel for rotation therewith and having a projection corresponding to the zero of the numbered wheel; a stationary shaft located over the cam; a lever mounted on the stationary shaft for movement thereabout and having an end portion engaging said cam so that said lever will be turned in opposite directions in accordance with the direction of rotation of the cam; a pair of pawls located opposite a gear of the revolution counter and being mounted



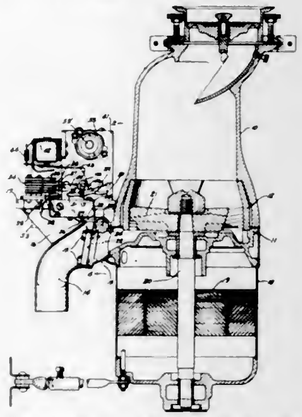
in the calculating machine for movement toward and away from the gear, one of said pawls being adapted to engage the gear to turn the same additively and the other of said pawls being adapted to engage the gear to turn the same subtractively; moving means for moving one of said pawl members toward the gear; and mounting means operatively connected to said lever and moving means for selectively mounting the latter in an operative position with respect to one of said pawls in accordance with the direction in which said lever is turned by said cam.

2,667,308

AUTOMATIC CONTROL FOR GARBAGE GRINDERS

John W. Hammes, Racine, Wis.

Application January 15, 1947, Serial No. 722,201
11 Claims. (Cl. 241—36)



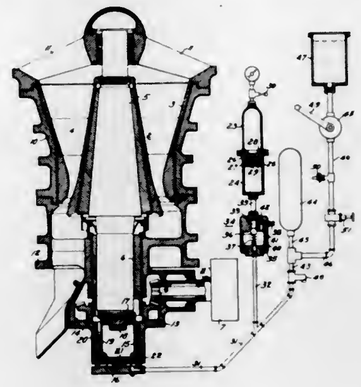
1. In a garbage disposal apparatus having a garbage and water receiving casing with a comminutor therewithin, an electric motor for driving said comminutor, a waste material conduit extending from said casing, an electrical circuit including said motor, a switch to open and close said circuit, a back water valve movably mounted within said waste material conduit, and connections between said valve and said switch whereby movements of the valve operate the switch.

2,667,309

GYRATORY CRUSHER

George D. Becker, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application November 26, 1948, Serial No. 62,071
6 Claims. (Cl. 241—211)



1. A gyratory crusher comprising longitudinally extending inner and outer crushing members, means for gyrating said inner crushing member relative to said outer crushing member, means supporting said inner crushing member for axial movement relative to said outer crushing member and for gyratory movement about said axis relative to said outer crushing member, said supporting means including an expansible fluid chamber operable to move and position said inner crushing member relative to said outer crushing member, said chamber being filled with fluid of a predetermined quantity and pressure sufficient to support said inner crushing member in a predetermined axial position relative to said outer crushing member, fluid supply means hydraulically connected with said chamber biased under pressure less than said predetermined pressure to operate in response to an expansion of said fluid chamber occasioned by the movement of said inner crushing member axially in a direction away from said chamber to supply fluid to maintain said chamber filled with fluid at a pressure insufficient to support said inner crushing member but sufficient to retard movement of said inner crushing member back to said predetermined axial position, and said fluid supply means vice versa operable to receive fluid from said chamber in response to the contraction of said chamber upon the return of said inner crushing member to said predetermined axial position so that said inner crushing member is gradually returned to said predetermined position.

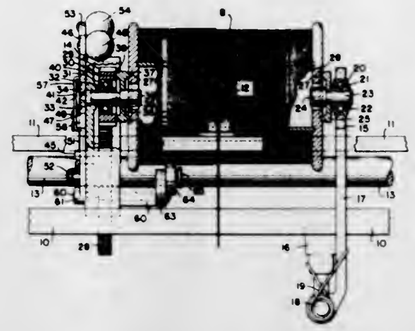
2,667,310

BOBBIN DRIVE FOR WINDING MACHINES

Walter Warren Egee, Yeadon, Pa., assignor to Fletcher Works Incorporated, Philadelphia, Pa., a corporation of Pennsylvania

Application March 29, 1951, Serial No. 218,225
10 Claims. (Cl. 242—18)

1. Driving mechanism for bobbin winders comprising a support, a sleeve fixedly carried by said support, a clutch ring surrounding said support and coaxial therewith, said clutch ring having teeth on the exterior thereof, a bearing interposed between the interior of said clutch ring and said sleeve, members in engagement with said teeth for rotating said clutch ring, a clutch shaft axially movable in said sleeve having a clutch member with oppositely disposed converging portions for respective engagement with one



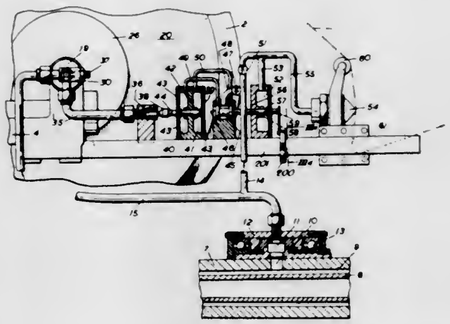
end of the bobbin and with the clutch ring, a member engageable with said shaft for moving said shaft to a position for disengaging said clutch member and said clutch ring, and a resiliently urged support for the other end of the bobbin.

2,667,311

MEANS FOR CONTROLLING THE TENSION IN RUNNING STRIP

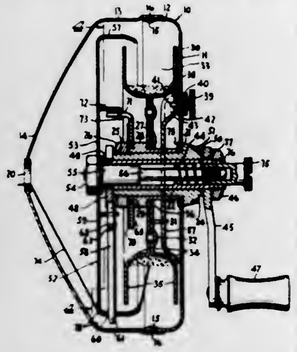
Johnson Lewis Packer, Sevenoaks, and George Thomas Wilson Grieve, Woolwich, London, England, assignors to British Insulated Callender's Cables Limited, London, England, a British company

Application October 17, 1951, Serial No. 251,784
Claims priority, application Great Britain October 27, 1950
7 Claims. (Cl. 242—75)



1. A strip-feeding device comprising a rotatable support for a reel of strip, adjustable braking means for braking the support when rotated by withdrawal of strip from a reel mounted thereon, a pneumatic chamber having an entry for compressed gas and a gas leakage aperture for the escape of gas therefrom, guiding means for directing the strip in a path over and in contact with the leakage aperture, and a brake-adjusting relay connected with the pneumatic chamber and responsive to pressure changes therein brought about by variation in tension of strip in contact with the leakage aperture.

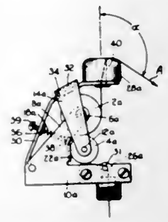
2,667,312
FISHING REEL
Henry Warren Denison and Lloyd E. Johnson, Mankato, Minn., assignors to Denison-Johnson, Inc., Mankato, Minn., a corporation of Minnesota
Application September 19, 1951, Serial No. 247,304
6 Claims. (Cl. 242—84.5)



1. In a fishing reel of the character described, a frame having a side plate and said plate having a centrally located opening, a tubular bearing in said opening, a sleeve on the bearing, a nut threaded on the bearing and securing the bearing and sleeve in place on the side plate, a line guide on the frame opposite the side plate and centered on the axis of the bearing, a line spool rotatable on the sleeve, a tubular shaft journaled through the bearing, a crank operatively connected to the shaft outside the frame, a cam secured on the shaft inside the frame, a line spooling member positioned alongside the spool and a plunger secured to the spooling member and slidably mounted out through the shaft, a control button secured on the plunger and projecting from the shaft outside the frame for manual operation to shift the line spooling member away from the spool, a pick-up pin slidably mounted on and radially projecting from the spooling member and normally engaging the cam but disengageable therefrom as said member is moved away from the spool, a spring urging the spooling member toward the spool, a second spring for urging the pin inward as it clears the cam, a brake disk and spring held by the said nut to said sleeve, and a connection between the spooling member and the brake disk to frictionally retard rotation of the member.

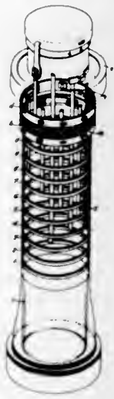
2,667,313
TENSION DEVICE
Norman E. Klein, Stamford, Conn., assignor to Deering Milliken Research Trust, New York, N. Y., a nonprofit trust
Application July 30, 1948, Serial No. 41,580
21 Claims. (Cl. 242—155)

4. A tension device for traveling filamentary material comprising in combination, a pair of nip rollers adapted to be rotated by travel of filamentary material therebetween, a member having a surface positioned in engagement with the cylindrical surface of one of said rollers to apply a frictional drag thereto, support means for said rollers providing pivotal movement therebetween including resilient means for biasing said last mentioned roller and said member surface into frictional engagement, and guide means for the material positioned relative to said rollers and to said member surface to lead material to the nips of said rollers in a direction away from said surface whereby tension in the material acts in opposition to said resilient means to reduce the



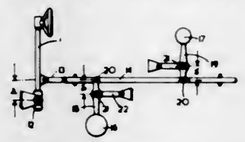
pressure between said last mentioned roller and member surface.

2,667,314
PNEUMATIC CARRIER
Reinhard Goerlich, Berlin-Schoneberg, Germany, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application April 23, 1952, Serial No. 283,860
Claims priority, application Germany
April 28, 1951
5 Claims. (Cl. 243—35)



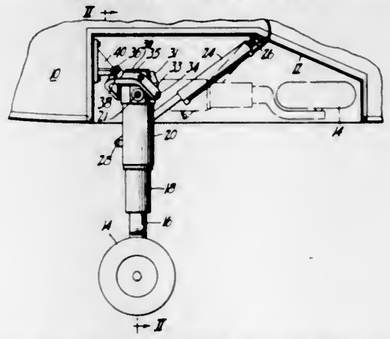
1. Pneumatic tube carrier with a ring contact assembly for setting the destination marking of said carrier comprising a plurality of contact rings, each ring including a longitudinal contact strip having an end fixed to the inside of said ring and extending in a plane parallel to the axis of said ring, a resilient cylindrical contact ring holder of insulating material having on its outer surface a plurality of spaced, annular grooves disposed along the length thereof, having on its inner surface a plurality of spaced, longitudinal grooves and having a plurality of radially spaced apertures extending through the wall of said holder, each aperture in a different one of said outer grooves at a point bisected by a different one of said inner grooves, means for selectively interconnecting said strips, said holder having a longitudinal slot extending along the entire length thereof whereby the diameter of said outer grooves may be made temporarily smaller than the inside diameter of said rings until said rings are set in said outer grooves, the contact strip of each ring adapted to be inserted through the aperture associated with the outer groove in which said ring is set and to lie within one of said inner grooves.

2,667,315
BALANCING OF AIRCRAFT CONTROL COLUMNS
Henry Romaine Watson, John Morris, and Harold James Staite, Coventry, England, assignors to Sir W. G. Armstrong Whitworth Aircraft Limited, Baginton, England
Application July 18, 1951, Serial No. 237,398
Claims priority, application Great Britain
October 28, 1950
9 Claims. (Cl. 244—83)



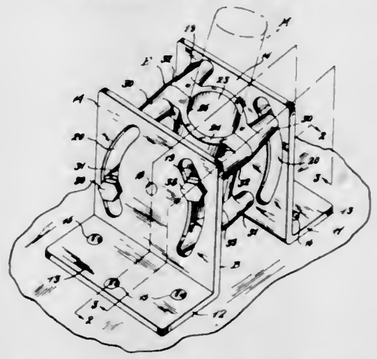
1. The combination with an aircraft control column pivotally mounted near its lower end for fore-and-aft movement and connected to operate a control rod for moving a control surface of the aircraft, of a pendulum and an inverted and lighter pendulum both fulcrumed relatively to the fixed structure of the aircraft, and a driving interconnection between each pendulum and said control rod, said interconnections causing said pendulums to apply a force proportional to the difference between their moments for opposing a force applied to said control rod by a moment due to a movement in the fore-and-aft direction of said column from its neutral position, and said interconnections causing said pendulums to apply a force proportional to the sum of their moments for opposing a force in said control rod when the aircraft is displaced from the horizontal and carries the control column out of the vertical.

2,667,316
RETRACTABLE AIRCRAFT UNDERCARRIAGE
Robert C. Winter, Buffalo, and John W. Wheeler, Grand Island, N. Y., assignors to Bell Aircraft Corporation, Wheatfield, N. Y.
Application April 25, 1951, Serial No. 222,856
5 Claims. (Cl. 244—102)



1. An aircraft retractable landing gear including a trunnion bracket pivotally mounted upon the aircraft to swing in straight fore and aft directions thereon about a first axis, a wheel strut rotatably journaled within said trunnion bracket and extending therebelow for ground contact purposes, power means for swinging said bracket relative to the aircraft in fore and aft directions between extended and retracted positions, and wheel strut rotation control means comprising a first yoke member keyed to said rotatable wheel strut, and a second yoke member pivotally connected at corresponding opposite yoke arm end portions to said first yoke member along a second axis extending obliquely to said first axis, said second yoke member having a stub shaft head portion thereof rotatably retained within a fixed bearing portion of the aircraft structure.

2,667,317
ANTENNA MAST SUPPORT
Victor W. Trebules, Cleveland, Ohio, assignor to The Gabriel Company, Cleveland, Ohio, a corporation of Ohio
Application August 4, 1949, Serial No. 108,588
2 Claims. (Cl. 248—43)

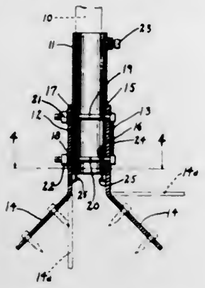


1. A radio antenna support comprising, a base structure including two spaced confronting wall sections movable toward one another and each having two oppositely disposed arcuate slots having a common center, said wall sections having open bearings at said centers, respectively, a mast carrying element supported between said wall sections, said element comprising complementary members cooperating to form a socket to receive a section of a mast therein, said members each having a pintle journalled in the open bearings in the respective wall sections, said members each having at least two surfaces engageable with the adjacent wall sections, respectively, adjacent to the slots in the said wall sections and having openings therein at said surfaces, said openings being at opposite sides of said socket and alignable with the respective openings of the other of said members and the slots in said wall sections, and a pair of clamping devices extending through the respective slots and openings in said members to urge said wall sections and adjacent surfaces of said members into frictional engagement and to urge said members together to clamp a mast section in said socket between said members.

2,667,318
MAST SUPPORT
Hugh G. Sesler, Warren, Ohio
Application February 17, 1950, Serial No. 144,723
3 Claims. (Cl. 248—43)

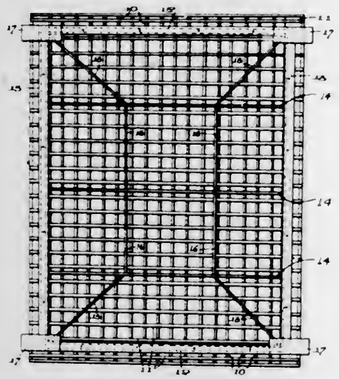
2. A mast support, comprising: tubular means for supporting the mast; means for supporting said tubular means, comprising a pair of strips disposed on opposite side surfaces of said tubular means and providing legs which are adapted to be secured to a support, such as a roof; first bolt means providing a pivot connection between said supporting means and said tubular means, whereby said tubular means may be swung to and from upright position, said first bolt means forming an

abutment limiting the amount the mast may be inserted within said tubular means and forming a support for the weight of the mast when the latter is in upright position; spring-clip means carried by said tubular means and having snap engagement with at least one of said strips when



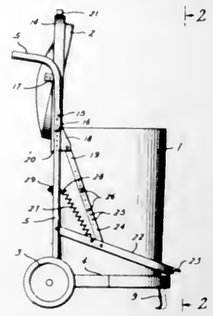
said tubular means is in upright position, for yieldably holding said tubular means in upright position; and second bolt means spaced from said first bolt means for connecting said tubular means and said supporting means against relative movement.

2,667,319
COMBINED CRATE AND PALLET STRUCTURE
Burton C. Coit, Jr., Pittsburgh, Pa., assignor to Tri-State Engineering Company, Washington, Pa., a corporation of Maryland
Application July 29, 1952, Serial No. 301,525
2 Claims. (Cl. 248—120)



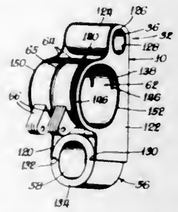
1. A container base comprising a lattice-like deck sheet of an upper series of laterally-spaced rods welded crosswise of a lower series of laterally-spaced rods, a supporting frame for the deck, that comprises channel bars welded in crosswise position to the undersides of the second-named series of rods, adjacent to the longitudinal edges of the deck sheet, channel bars disposed between rods of said second series, adjacent to the ends of the deck sheet and welded to the undersides of the first-named series of rods, and also welded to the other bars at points adjacent to the corners of the deck, and legs welded to the channel bars adjacent to the corners of the deck, the first-named channels being of greater depth than the first-named channels, with their lower faces in a common plane, and the legs having flat top areas in flatwise engagement with the undersurfaces of both channels at each corner of the deck.

2,667,320
GARBAGE CAN CART
Henry H. Whitley, Beaumont, Tex.
Application November 1, 1952, Serial No. 318,209
2 Claims. (Cl. 248—147)



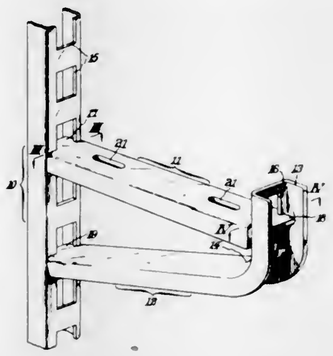
1. A combined stand and cart for covered receptacles comprising a light weight frame mounted on a pair of axially aligned wheels, the frame including a horizontal base portion disposed between the wheels and extending forwardly therefrom and a pair of elongated handle members connected at one end to the rear of the base portion and extending upwardly therefrom, an arcuate member carrying the cover of the receptacle and normally disposed horizontally at about the same elevation as the top of the receptacle, the arcuate member being pivotally secured near its ends to the handle members and an intermediate portion of the arcuate member partially surrounding the cover, the ends of the arcuate member extending rearwardly beyond the handle members and acting as levers whereby the cover may be raised and lowered, a second arcuate member normally disposed horizontally below the first arcuate member and pivotally secured at its ends to the handle members, the second arcuate member carrying a foot pedal for raising and lowering the cover, linkage connecting at least one end of the first arcuate member to an intermediate portion of the second arcuate member whereby the first arcuate member is raised upon depressing the foot pedal, and spring means acting upon one of the arcuate members whereby the arcuate members are returned to their normal positions when the foot pressure is released.

2,667,321
LOCKING COLLAR FOR INSTRUMENT MOUNTINGS
Harry S. Pasturczak, East Moline, Ill.
Application October 12, 1951, Serial No. 251,017
4 Claims. (Cl. 248—183)



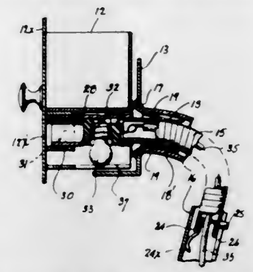
1. In an instrument mounting structure of the character described, the combination with an arm member, of a locking collar for releasably gripping said arm member, the said collar comprising a pair of spaced, parallel, substantially flat, sheet metal side members provided with aligned medial openings therethrough and with offset aligned openings in the upper regions thereof, a bushing extending between said side members and having its opposite ends secured in said offset openings to provide an apertured lug, a second bushing having its axis extending at right angles to the axis of said first bushing and supported along its sides between the lower ends of said side members below said medial openings therein, and a locking band assembly including a cylindrical body formed at its opposite ends with continuous ring portions fixed in the medial openings of said side members and adapted to receive said arm member therein with capacity for turning movement of the locking collar about said arm and formed intermediate said continuous ring portions with an arcuate expandable and contractible band portion adapted to be flexed into releasable holding engagement with said arm member, whereby the said continuous ring portions of said cylindrical body and the said side members support the locking collar rotatably on said arm member independently of said arcuate band portion.

2,667,322
SUPPORT
Frederick G. W. Ullberg, Jr., and Edgar W. Baird, Jr., Philadelphia, Pa., assignors, by direct and mesne assignments, to Rakit Corporation, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application June 11, 1951, Serial No. 230,904
1 Claim. (Cl. 248—243)



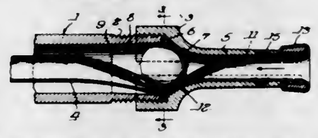
As a new product of manufacture, a supporting structure of the character described comprising an upright channel section bar adapted to be affixed to a wall and having rectangular apertures at intervals lengthwise thereof in its cross web; a straight horizontal channel section bracket bar having an integral T shaped key formation at one end of its cross web releasably locked in one of the apertures in the upright bar; and an angular channel section brace bar having an integral T shaped key formation at one end of its cross web releasably locked in another aperture in the upright bar and having an up-turned distal end portion provided in its cross web with a rectangular aperture for releasable locking engagement with an integral T shaped key formation at the distal end of the cross web of the bracket bar.

2,667,323
EXTENSIBLE ARTICLE SUPPORT
Roland G. Mason, Seattle, Wash.
Application December 11, 1951, Serial No. 261,009
4 Claims. (Cl. 248—298)



1. A retractable and extendable lamp support comprising a tubular guide housing adapted for fixed mounting on a supporting structure, a universally bendable cable received within said tubular guide housing and extensible therefrom, means at the outer end of said cable for supporting a selected article, the extended portion of said cable being bendable to either side of the guide housing, means preventing rotation of said cable relative to the guide housing, and means frictionally retaining the cable in selected positions of extended adjustment, said last recited means including at least one spring one end of which abuts the guide housing and the other end of which is movable, and means for adjusting the positioning of the movable end of the spring to adjust its frictional engagement with the surface of the guide housing.

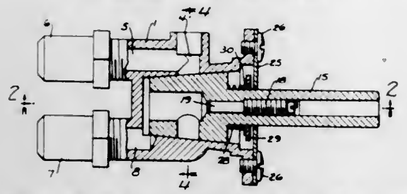
2,667,324
COLLAPSIBLE VALVE
George E. Hansen, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application December 27, 1948, Serial No. 67,330
3 Claims. (Cl. 251—5)



1. In a fixture of the class described, the combination including a substantially tubular member, a holder having an inner surface camming portion, flexible tubing comprising a conduit portion within said holder and tubular member, the said holder having an axially extending slot through an outer wall thereof for inserting a continuous length of the said flexible tubing within the holder, the holder member being relatively rotatable to the said tubular member and flexible tubing and being axially movable relative thereto, freely movable means comprising a sphere member interposed between said tubular member and the holder and the flexible tubing, the tubular member and holder defining a recess between the camming surface and the end of the tubular member of larger diameter than that of the sphere member plus twice the thickness of the flexible tubing, the sphere member being positioned in said recess in the valve-open position, the inner diameter of an end portion of the tubular member being of smaller diameter than that of the sphere member plus twice the thickness of the flexible tubing, the end portion of the said tubular member engaging the said sphere member, the

inner surface camming portion of said holder also engaging the said sphere member and camming the latter member towards the flow axis whereby upon predetermined relative rotation and axial movement of the said holder in a direction towards the said tubular member the said freely movable means is held against an outer portion of the flexible tubing and the end portion of the said tubular member to shut off flow therethrough.

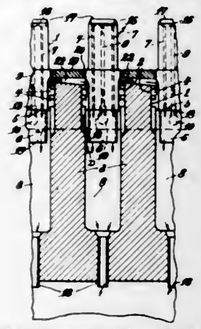
2,667,325
GAS CONTROLLING VALVE
Ervin H. Mueller, Grosse Pointe, Mich.
Application March 19, 1951, Serial No. 216,372
4 Claims. (Cl. 251—163)



1. In a valve for controlling the flow of gas to a gas burner, said valve having a valve body and a turnable valve member, with the valve body and the valve member having passageways and ports, some of which are arranged to be brought into and out of registry by the turning of the valve member to effect different gas flow conditions through the valve; a first member non-rotatably secured to the valve body, a second member secured to the valve member to turn therewith, spring means normally urging said members into engagement with each other, a projection on one member extending toward the other member, means forming a relieved area on the other member for receiving the projection under the action of the spring means, the second member being sufficiently loose on the valve member so that the projection snaps into the relieved area with a slight rotative motion of the second member relative to the valve member, the cross dimension of the relieved area measured along the arc of travel of the projection being substantially greater than the cross dimension of the projection measured along the same arc, whereby, when the valve member is turned in one direction from "off" position, the persistence of motion causes the projection to substantially traverse the relieved area into which it snaps, to indicate one "on" position of the valve member relative to the valve body, which provides sufficient flow of gas to initiate ignition, and when the valve member is turned in the opposite direction and the projection snaps into the same relieved area, the projection substantially traverses said relieved area to indicate another position of the valve member relative to the valve body for low rate of gas flow insufficient to satisfactorily initiate ignition.

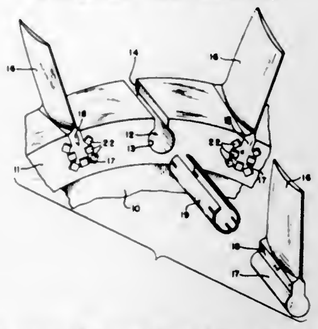
2,667,326
GAS TURBINE
Max Ledinegg, Vienna, Austria, assignor of one-half to Simmering-Graz-Pauker Aktiengesellschaft für Maschinen-, Kessel- und Waggonbau, Vienna, Austria, a company of Austria
Application November 16, 1949, Serial No. 127,723
Claims priority, application Austria November 26, 1948
7 Claims. (Cl. 253—39.15)

1. A gas turbine comprising, in combination, a hollow closed rotor body formed with a plurality of communicating inner cavities; a plurality of elongated rotor blades mounted on said rotor body extending in a radial direction thereof, each of said rotor blades having an outer end located outside said rotor body and an inner end located inside one of said cavities in said rotor body and a longitudinally extending surface intermediate said ends, each of said rotor blades being formed with a set of longitudinally extending closely spaced fine bores extending from said outer end to said inner end of said rotor blade parallel to and spaced a short distance from said surface of said rotor blade, said fine bores opening at the inner ends of said blades into said rotor cavities, each rotor blade being formed with a conduit extending substantially parallel to the axis of said rotor body opening



into one of said inner cavities and located spaced from said inner end of said rotor blade, each rotor blade being further formed with at least one longitudinal bore extending from said conduit to said outer end of said rotor blade within the space bounded by said set of fine bores and being wider than the fine bores of said set of fine bores; and means rigidly secured to said outer end of said rotor blade and defining with the surface of the same a closed space for communication between said wider bore and said set of longitudinal finer bores, whereby a coolant contained in said inner cavities of said rotor body is forced by centrifugal force to flow through said conduits and said wider bores into said finer bores when the coolant contained in said finer bores is partly evaporated by the heat of the blade surface.

2,667,327
ROTOR CONSTRUCTION
George W. Hardigg, Ridley Park, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 14, 1950, Serial No. 168,019
2 Claims. (Cl. 253—77)



1. In a rotor, the combination of an aluminum blade-carrying member having a circumferential

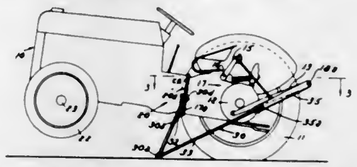
series of slots for reception of side-entry type blade roots, a circumferential series of blades, each including a side-entry type steel root of bulbous cross section disposed in one of said slots, and sleeve-like steel liners positioned in said slots between the walls of the latter and the blade roots.

2,667,328
AUTOMOBILE JACK
Allen Andrew White, Peabody, Kans.
Application June 13, 1950, Serial No. 167,826
3 Claims. (Cl. 254—100)



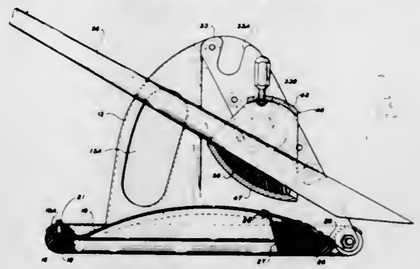
1. An extensible strut for jacks of the V and triangle types comprising a first section adapted to be hinged at one end to a base, a second section slidable lengthwise in and protruding from the first section at the outer end of the latter, the second section containing a longitudinal slot, a nut fastened to the first section and extending through said slot into the interior of the second section, a screw extending into said second section through the outer end thereof and through and in screw-threaded relation to said nut, means connecting the inner ends of the screw and said second section together against relative axial movements while permitting relative rotary movements, and means for rotating said screw to move said second section relatively to said first section.

2,667,329
TRACTOR JACK
Andrew Blaauw and George W. Findley, Birmingham, Mich., assignors to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application December 22, 1952, Serial No. 327,330
1 Claim. (Cl. 254—124)



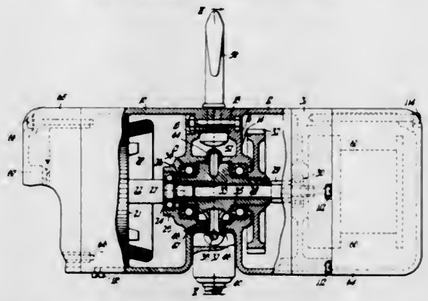
A tractor jack for selectively lifting the front or rear wheels of a tractor of the type having laterally spaced, power-lifted, trailing hitch links, comprising a U-shaped main frame having two spaced elongated arms and a ground-engaging bight portion, means on the ends of said arm portions adapted for respectively engaging laterally spaced points on the tractor rear axle housing in one longitudinal position of said main frame relative to the tractor, a W-shaped integral brace symmetrically mounted on said U-shaped main frame and having its bottom vertices rigidly secured to said bight portion and its free end portions respectively rigidly secured to medial portions of said arms, the upper vertex portion of said W-shaped brace being proportioned to engage the tractor body at a point substantially forwardly of said rear axle housing when said main frame is placed in a second longitudinal position relative to the tractor, a pair of link elements respectively pivotally connected at one end to the lateral extremities of said bight portion, and means for respectively connecting said link elements to the tractor hitch links in either of said longitudinal positions of said main frame relative to the tractor.

2,667,330
LIFTING DEVICE
David F. Jorgensen, Altadena, Calif.
Application November 13, 1950, Serial No. 195,363
7 Claims. (Cl. 254—130)



7. Lifting apparatus for use with a crowbar, comprising a base, a pair of spaced flanges extending upwardly from the base, each flange having at least one socket in one of its vertical edges with the sockets in the two flanges being in horizontal alignment, a cradle adapted to be removably and pivotally supported in aligned pairs of sockets and including a flat bed disposed below its axis of rotation for supporting said crowbar, and also including a body rotatable on an axis normal to the axis of rotation of the cradle, said body carrying said flat bed for supporting a crowbar beneath the axis of rotation of the cradle.

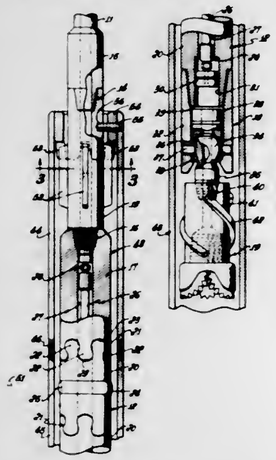
2,667,331
ELECTRIC HOIST
Erford E. Robins, North Tonawanda, and Humphrey F. Parker, Buffalo, N. Y., assignors to Columbus McKinnon Chain Corporation, Tonawanda, N. Y.
Application July 31, 1951, Serial No. 239,594
14 Claims. (Cl. 254—168)



1. A hoist comprising in combination, a pair of main frame members die cast of relatively light weight metal, said main frame members being of generally cylindrical form and each having an inner end wall portion formed to meet the other at rim portions thereof to provide a plane of junction therebetween, bolt means detachably interconnecting said main frame members, bearing means carried by said end wall portions of said main frame members and mounting therein a load lift wheel, motor means mounted within one of said main frame members and having its

rotor shaft in keyed connection with a drive shaft extending through said load lift wheel, speed reduction gear means carried within the other of said main frame members and having driving connection with said drive shaft, the output portion of said speed reduction gear means being geared to said load lift wheel, said end wall portions of said main frame members being symmetrically recessed and accommodating in clasped relation therebetween at the top portion of said main frame members a suspension hook device and in the region of said load lift wheel a chain guide device and at a side portion of said hoist a chain dead end anchor bolt device.

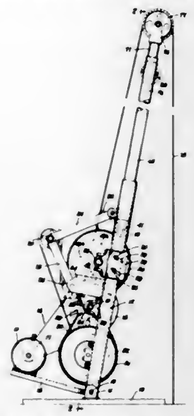
2,667,332
FLEXIBLE SHAFT WELL DRILLING EQUIPMENT
John S. McCune and William E. Hanks, Long Beach, Calif., assignors to Oilwell Drain Hole Drilling Co., Long Beach, Calif., a corporation of California
Application March 31, 1952, Serial No. 279,556
7 Claims. (Cl. 255—1.6)



1. The combination comprising a vertically elongated tubular sheath having an opening in its side and including means for deflecting a drill bit run down within the sheath outwardly through said opening, the sheath having upper and lower sections interconnected by a joint releasable by counter-clockwise rotation of the upper section, a drill string including a flexible tubular drill collar carrying a bit and extending downwardly into the sheath through its upper end, said drill collar being movable from an upper position in the sheath downwardly therein to deflect and advance the bit outwardly through said opening, and said upper section and the drill string having lugs interengageable in an upper position of the drill collar in the sheath to disconnect said upper section from the lower section by counter-clockwise rotation of the drill string.

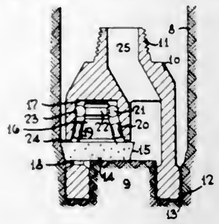
2,667,333
DRILLING MACHINE
Wilbur N. Martin, Canton, Ohio
Application August 7, 1950, Serial No. 178,069
4 Claims. (Cl. 255—10)

1. A drilling machine of the character described including a support frame, driving mechanism mounted in said frame and including a pitman wheel, an upright support tube mounted upon said frame, a mast mounted for reciprocation within the frame, a pitman rod operatively connecting the pitman wheel to the lower end of the mast, a sleeve having a closed top, said sleeve being slidably mounted within the upper end of the support tube and surrounding the upper end



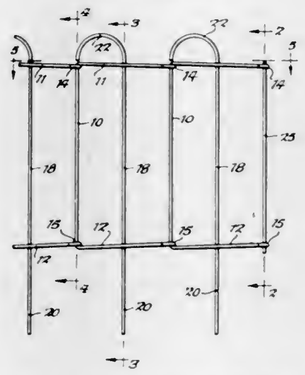
of the mast, a coil spring interposed between the upper end of the mast and the closed end of the sleeve, a sheave connected to the closed end of the sleeve and a cable extending over said sheave, an auxiliary mast section slidably mounted in the upper end of the mast and means for raising said auxiliary mast section relative to the mast.

2,667,334
FULL HOLE DIAMOND BIT
John E. Ortloff, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application March 3, 1951, Serial No. 213,767
2 Claims. (Cl. 255—71)



1. A drill bit assembly comprising a bit shank adapted for attachment to a drill pipe, and terminating at its lower end in an essentially tubular coring head, said shank having an essentially frustro-conical recess in the body thereof above and adjacent said coring head and eccentric to the central axis of said coring head, and having a slit in the side wall in open communication with said recess, a frustro-conical shaft member disposed in said recess and defining with the inside walls thereof an annular space, said inside walls and said shaft member having cooperating circumferential grooves to receive ball bearings therebetween, a plurality of ball bearings in said grooves, a shoulder on the lower portion of said shaft member, a plurality of tapered roller bearings disposed in said annular space below said ball bearings and resting on said shoulder, a tapered roller cutter held by said shaft below said shoulder and extending outwardly through said slit beyond the vertical projection of the outer periphery of said coring head and inwardly beyond the central axis of said coring head, abrasive particles held by the lower face and tapered sides of said roller cutter, and abrasive particles held by the leading edge of said coring head.

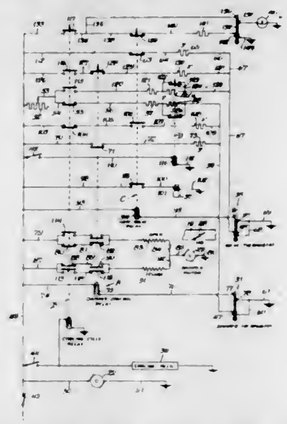
2,667,335
FOLDABLE FENCE
Frederic Martin Lewis, Belleville, Ontario, Canada, assignor to Jules Saman, Watertown, N. Y.
Application May 31, 1952, Serial No. 290,999
9 Claims. (Cl. 256—33)



1. A foldable fence comprising a plurality of U-shaped sections, each having its legs arranged substantially horizontally one above the other and connected by an integral upright member, the outer ends of the legs of the sections having bends to form loops, the loops of one section extending about the upright member of an adjacent section, and upright brace members secured to said legs intermediate of the ends thereof for supporting said legs in substantially parallel relation to each other.

2,667,336
TEMPERATURE AND VENTILATION CONTROL APPARATUS FOR BUSES
Timothy J. Lehane, North Riverside, and William M. Smith, Glen Ellyn, Ill., assignors to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware
Application February 16, 1951, Serial No. 211,324
4 Claims. (Cl. 257—3)

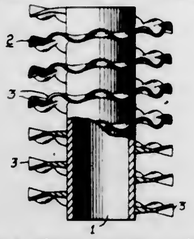
1. In temperature and ventilation control apparatus, the combination with a blower for delivering a stream of air into an enclosure, air heating element arranged in heat exchange relation with the air stream for altering the temperature thereof; means for delivering a mixture of outside and inside air to the blower including a duct leading to the blower from the outside and the inside of said enclosure and an adjustable damper associated with said duct for controlling the proportions of outside and inside air delivered; of means for controlling the activation of the air heating element comprising a de-energized open electrical valve for delivering heating medium to said air heater, a heat control relay having energized and de-energized closed contacts, circuit means connected through an energized closed first contact of said heat control relay for energizing said valve closed, and circuit means including a heat control thermostat having a predetermined temperature setting and responsive to the temperature of the enclosure for controlling the energization of said heat control relay; means for automatically adjusting said damper comprising a reversible motor operatively connected thereto and operable in one direction to impart adjusting movements to the damper to increase the amount of outside air and decrease the amount of inside air delivered and operable in the opposite direction to impart adjusting movements to the damper to decrease the amount of outside air and increase the amount of inside air delivered, a damper control relay provided with energized and de-energized contacts, circuit means connected through an energized closed first contact of the damper control relay for closing a circuit to operate the damper motor in the first mentioned direction to increase the amount of outside air delivered, a second circuit means connected through a deenergized closed second contact of said damper control relay to close the second mentioned circuit through the damper motor to decrease the amount of outside air and increase the amount of inside air delivered, and circuit means including a thermostat having a predetermined temperature setting corresponding to the said setting of the first mentioned thermostat and responsive to the temperature of the enclo-



sure for energizing said damper relay; means for sub-calibrating both of said thermostats to produce cycling thereof and to effect a lag in the closing of the heat control thermostat relative to the closing of the damper control thermostat so as to impart movements to the damper to increase the amount of outside air preliminary to the cycling of the heat control thermostat and consequent recurrent closing and opening of the heat valve comprising electrical heaters for applying auxiliary heat to the thermostats, circuit means consisting of a first branch connected through a de-energized second contact of the heat control relay to direct a predetermined amount of heating current to the heater of the heat control thermostat to adjust it to a lower temperature setting, and circuit means consisting of a first and second branch for directing sufficient heating current to the heater of the damper control thermostat to adjust its temperature seting below the adjusted setting of the heat control thermostat; and circuit means comprising a third branch and connected through an energized closed third contact of the heat control relay for directing additional heating current to the heater of the damper control thermostat to create a lag in the opening of the damper control thermostat relative to the opening of the

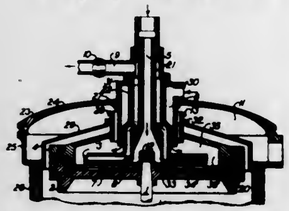
heat control thermostat when the latter has functioned and thereby effect adjustments of the damper to increase the amount of outside air delivered.

2,667,337
FINNED ELEMENT FOR THERMAL OR HEAT TRANSFER PURPOSES
Everett Chapman, Las Vegas, Nev.
Application August 6, 1947, Serial No. 766,489
3 Claims. (Cl. 257—262.20)



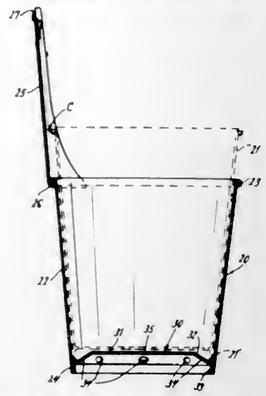
1. In a heat exchanger comprising a tubular member having a cylindrical surface, a length of strip material forming a continuous helical fin secured on said member and projecting outwardly from said cylindrical surface, the outer edge of the fin provided with a plurality of spaced transverse corrugations, each of said corrugations extending inwardly from the outer edge of the fin and terminating within the latter at a point located a substantial distance from said outer edge but not inwardly beyond the approximate midpoint between said two edges so that the zone of the projecting portion of the fin adjoining said surface is undistorted, said corrugations decreasing progressively in both width and depth from said outer edges to their points of termination.

2,667,338
APPARATUS AND METHOD FOR CENTRIFUGALLY MIXING LIQUIDS
Heinrich Hemfort, Oelde (Westphalia), Germany, assignor to Westfalia Separator A. G., Oelde, Westphalia, Germany, a corporation of Germany
Application March 15, 1950, Serial No. 149,658
Claims priority, application Germany June 13, 1949
13 Claims. (Cl. 259—3)



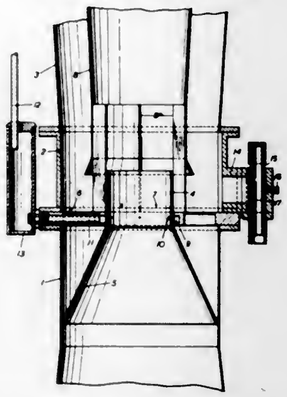
1. Device for the intimate mixing of liquids which comprises a rotatable centrifuge drum, a stationary center shaft extending to within said drum substantially coaxial with the drum axis of rotation, a stationary stripping disc carried by said shaft cocentric therewith within said drum, first conduit means defined by said shaft for feeding one of two specifically differing liquids into said drum below said disc, second conduit means for admitting the other of said liquids into said drum, third conduit means in communication with the stripping channel of said disc for discharging a mixture of said liquids, and means defining an annular overflow channel from the upper inner end of said drum.

2,667,339
MIXING DEVICE HAVING HOLDER FOR BEVERAGE CUPS
Judd B. Presley, Clayton, and Louis Forman, St. Louis, Mo.
Application April 2, 1951, Serial No. 218,794
6 Claims. (Cl. 259—108)



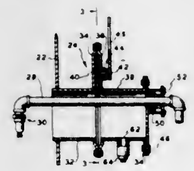
1. For use with a mixing and serving cup, the improvement which comprises a holder adapted to receive the cup, said holder comprising a body having a tapering side wall with the larger upper open end defined by a rim, an extension on said body laterally offset from the interior of the body and extending upwardly from the body rim, and a cup supporting adapter disposed in said body, said adapter having a support flange adjacent one end for engaging upon said body rim and an enlarged guiding portion adjacent its other end for engaging the tapering side wall surface of said body.

2,667,340
GAS-LIQUID CONTACT APPARATUS
Briton Selby Robson, Huyton, England, assignor to British Insulated Callender's Cables Limited, London, England, a British company
Application November 27, 1951, Serial No. 258,467
Claims priority, application Great Britain November 30, 1950
7 Claims. (Cl. 261—21)



1. Apparatus for causing interaction between gaseous matter and a liquid comprising a vertical pipe, means for feeding gaseous matter upwards through said pipe, in said pipe a jet tube formed with a number of small perforations, a wall extending completely around the lower end of said jet tube and connecting said lower end with the wall of said pipe below said lower end, an injector tube extending upwards above and spaced from the jet tube to draw in gaseous matter between said tubes, liquid supply means in said pipe for discharging liquid into said gaseous matter, a liquid collecting chamber arranged around said jet tube and having as one of its walls the part of said jet tube formed with said perforations and means for drawing off surplus liquid from said collecting chamber.

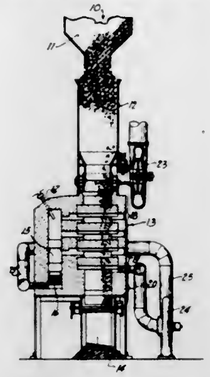
2,667,341
GASLOCK FOR SPRAY NOZZLES
Gordon Busfield, Annandale, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application February 8, 1952, Serial No. 270,672
1 Claim. (Cl. 261—115)



In a gas treating chamber, in combination with liquid spray mechanism, including a spray head within the chamber and a liquid supply line connecting the spray head with a liquid supply outside of the chamber, a gaslock whereby the liquid spray head may be inserted or withdrawn from the chamber without ingress or egress of gas from the chamber comprising an elongated tubular member secured to a wall of the chamber and surrounding the spray mechanism opening, a head removably secured to the outer end of the tubular member and having an orifice adapted to receive the liquid supply line, means defining a chamber in said elongated tubular member adapted to receive the spray head, said means including a gate valve carried by the tubular member between the head and outside of the chamber for selectively enclosing the spray head in the chamber out of contact with the gas in the chamber, means for inspecting the spray head within the chamber comprising a boss surrounding an opening in the tubular member between the head and the gate valve, and a cap removably secured to said boss.

2,667,342
METHOD OF CALCINING AND CALCINING APPARATUS
Thomas R. Ellerbeck, Salt Lake City, Utah
Application January 30, 1948, Serial No. 5,419
8 Claims. (Cl. 263—29)

1. A method of calcining, comprising the steps of causing material for calcining to flow downwardly through a substantially vertically extending calcining zone; introducing calcining gases into said material intermediate the height of said calcining zone; forcing a portion of said calcining gases to flow downwardly in said calcining zone co-current with the downward flow of said material; causing a portion of said calcining gases to flow upwardly through the calcining zone counter-current to the downward flow of said material; and exhausting said upwardly



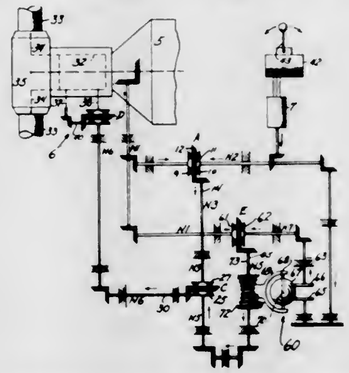
flowing gases adjacent the top of said calcining zone.

2,667,343
HEAT TRANSFER CHECKER WORK AND UNIT SHAPES THEREFOR
John P. Swentzel, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application July 22, 1950, Serial No. 175,357
8 Claims. (Cl. 263—51)



1. A heat transfer checker work unit ring-shaped refractory body, said ring being completely open at one side by omission of a small segment thereof so as to be in the form of an incomplete annulus of slightly less than 360° in circumference with the sides of the opening being completely disconnected.

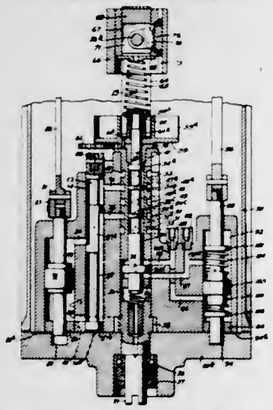
2,667,344
ACCELERATION STABILIZED SYNCHRONIZER
William P. Robbins, Paterson, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application July 2, 1951, Serial No. 234,888
14 Claims. (Cl. 264—1)



14. In a speed control for a rotating member, a reference speed source, a speed adjuster for the

member, first means connected to the member and source to sense the speed difference therebetween and having an output element producing a speed error signal, second means connected to and driven by said member and source including mechanism to derive the rate of change of speed of the member and having an output element producing a rate of change of speed signal, and third means driven by said first and second means and connected to the output elements thereof, said third means summing said speed signals and having an output representing the summed signals, and a connection from said last output to said member speed adjuster.

2,667,345
HYDRAULIC SPEED GOVERNOR
Joseph S. Dale, Rockford, Ill., assignor to Dale Hydraulic Controls, Inc., Rockford, Ill., a corporation of Illinois
Application January 17, 1950, Serial No. 139,076
20 Claims. (Cl. 264—3)

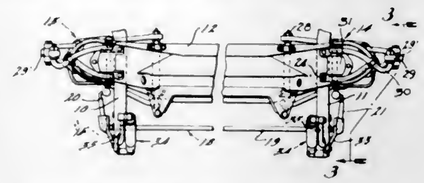


1. In a hydraulic governor wherein movement of a pilot valve regulates the speed-control mechanism of an engine, anti-hunt mechanism comprising means operative on movement of the pilot valve to set up a transient hydraulic pressure opposing such movement, said means comprising an adjustable valve operable to control the duration and instantaneous magnitude of such opposing force when the pilot valve has moved in one direction, a second adjustable valve similarly operable when the movement of the pilot valve has been in the opposite direction, and means for rendering inoperative each of the valves during periods when the other is functioning.

6. An engine governor having a drive shaft, fly-weights turned by rotation of the drive shaft, a pilot valve actuated by the fly-weights, and a speeder spring opposing the action of the fly-weights on the pilot valve, said drive shaft, fly-weights, pilot valve, and speeder spring being mounted coaxially, and a slip coupling connecting the drive shaft to the pilot valve operative to transmit a relatively small torque to the pilot valve during rotation of the drive shaft.

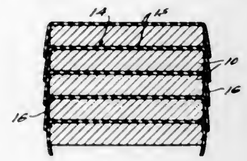
2,667,346
SUSPENSION
Nathaniel Wyeth, Dearborn, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application January 6, 1950, Serial No. 137,053
1 Claim. (Cl. 267—8)

In a motor vehicle having a sprung portion and spaced wheels, suspensions for effecting operative connections between said sprung portion and said wheels, each comprising means pivotally connecting each of said wheels with said sprung portion for accommodating rising and falling movement of said wheels relative to said sprung portion, a generally U-shaped sway bar having a center portion extending transversely of said vehicle and leg portions each operatively connected to one of said suspensions for rocking movement in response to rising and falling of said wheels, spaced supports on said sprung portion carrying said sway bar including bear-



ing portions engaging said center portion of said sway bar and accommodating axial rotation thereof, extension members for each of said leg portions secured to said sway bar, spaced generally L-shaped brackets each having one leg secured to said sprung portion and each having its other leg extending upwardly, and shock absorbers, each being pivotally connected between one of said extension members and said other leg of one of said brackets, said extension members actuating said absorbers in response to rocking movement of said sway bar leg portions.

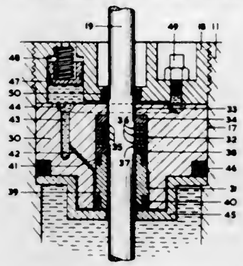
2,667,347
COMBINED LINER AND COVER FOR LEAF SPRINGS
Clare S. Jacobs, Grosse Pointe, Mich., assignor to F. L. Jacobs Co., Detroit, Mich., a corporation of Michigan
Application October 25, 1950, Serial No. 192,117
2 Claims. (Cl. 267—37)



1. A cover and liner for a leaf spring assembly comprising, a strip of extruded polyethylene arranged between two of the leaves of said spring assembly having a width substantially equal to the width of the leaves, a second strip of extruded polyethylene arranged between one of said leaves and a third leaf of said spring assembly having a width substantially equal to the width of said leaves, a side portion integral with each edge of both of said strips formed during extrusion of the polyethylene and continuous throughout major lengthwise portions of the strips, each side portion depending from its strip substantially at right angles and having a height greater than the thickness of any one leaf of the spring assembly, and the normal horizontal distance between inner surfaces of lower edges of the side portions carried by each strip being slightly less than the distance between the outer surfaces of the side portions carried by the other strip so that the side portions of one strip remain in overlapped engagement with side portions of the next strip, said first and second mentioned strips being provided with cutout portions

to accommodate means for securing the elements of said assembly together and being otherwise unapertured.

2,667,348
RESILIENT TELESCOPIC DEVICE
Colin M. Frye, Longlevens, Frederick E. Killner, Prestbury, and Arthur K. Morris, Tewkesbury, England, assignors to Dowty Equipment Limited, Cheltenham, England
Application February 5, 1952, Serial No. 269,968
13 Claims. (Cl. 267—64)



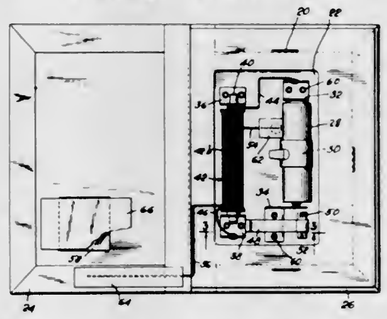
1. A liquid spring type resilient telescopic device comprising a chamber, a liquid of a given viscosity completely filling said chamber, a plunger movable into said chamber to compress the liquid therein and movable out of said chamber under the restoring force of the compressed liquid, said chamber being formed with a low pressure reservoir surrounding said plunger adjacent its exterior portion, a lubricating oil within said reservoir of a viscosity greater than the viscosity of the liquid within the chamber, and having access to the plunger for deposit thereon, said chamber being also formed with a bore extending longitudinally of and surrounding the plunger, interiorly of and open at its exterior end to the reservoir, and open at its interior end to the liquid-filled chamber, packing and sealing material filling at least the exterior portion of said bore and closely embracing the plunger, and means bearing upon the interior end of said packing material, and located where it is subject to pressures within the chamber, said means being movable under the influence of such pressures as they vary, to exert an increasing pressure upon the packing material comformably to increase of pressure within the chamber.

2,667,349
SIMULATED TREADED VEHICLE
Leo V. Jacobson, Webster Groves, Mo.
Application April 5, 1950, Serial No. 154,184
1 Claim. (Cl. 272—1)



A toy, simulating a vehicle equipped with treads, to be propelled by a child therein consisting of a band formed into a closed loop track and made up of transversely extending, flexibly connected segments, the track being flexible longitudinally and self-supporting transversely, being light in weight and of sufficient width and length to accommodate the body of a child in the interior thereof, the outside surface of said loop track being imprinted to simulate the usual external characteristics of said vehicle, said characteristics including ports such as the gun ports or observation ports of a war tank, and said track having holes therethrough intermediate its edges, said holes being spaced longitudinally along said track and forming ports coincident with said imprint.

2,667,350
ELECTRIC SHOCKING DEVICE
Jack C. Wilson, Garden City, and Harry W. Wilson, Hempstead, N. Y.
Application January 2, 1952, Serial No. 264,519
2 Claims. (Cl. 272—27)

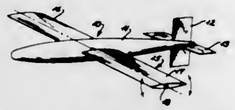


1. An electric shock producing book, comprising a hollow dummy book having electrically conductive front and back covers which are hinged to said book and are insulated from each other, an induction coil in said book having primary and secondary windings, the secondary winding being connected at one of its ends to one of said covers and at its opposite end to the other of said covers, a dry cell in said book having positive and negative terminals, and an interrupter in said book connected to one of said terminals and to one end of said primary winding, the other terminal being connected to the other end of the primary winding, said interrupter comprising a fixed contact member, a coacting resilient vibratory contact member which is secured at one end to the back cover and which is normally biased away at its opposite end from the fixed contact member, a magnet secured to said opposite end of the vibratory contact member and a coacting magnetic plate secured to the front cover of the book, said magnet and magnetic plate being attracted to each other when the front cover is swung to closed position to magnetically hold the front cover in closed position, thereby locking the vibratory contact member against vibrating into engagement with the fixed contact member under ordinary handling, but releasing said vibratory contact member for intermittent engagement through its resiliency with said fixed contact member when the front cover is swung to open position and the magnet and magnetic plate are thereby separated.

2,667,351
NONLIFTING TOWED TARGET GLIDER
Marion O. McKinney, Jr., and John P. Campbell, Hampton, Va.
Application March 28, 1951, Serial No. 218,058
2 Claims. (Cl. 273—105.3)
(Granted under Title 35, U. S. Code (1952), sec. 266)

2. A tow-glider comprising a fuselage, guide fins including stabilizers at the tail end of said

fuselage, alined support elements secured to and extending transversely from said fuselage on opposite sides thereof, a pair of wing simulating flaps each pivoted freely on one of said elements on a line intermediate the nose and rear edge of



the flap and displaced toward the flap nose from the aerodynamic flap center whereby a zero lift characteristic is attained, the flaps having profiles symmetrically contoured on both sides of the fuselage.

2,667,352
AIRFLIGHT WHIRLING DEVICE
Joseph M. Sepersky, Brooklyn, N. Y.
Application July 1, 1949, Serial No. 102,626
3 Claims. (Cl. 273—106.5)



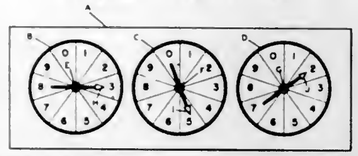
1. A projectile article incorporating a main body, said main body being bifurcated along a portion of its length to receive the elastic portion of a sling-shot when the article is to be projected, and vanes hingedly attached to the body and adapted to lie trailingly close to said body during flight, said vanes diverging outwardly for air engagement whereby during the drop of said article by gravity it descends slowly in helicopter-lowering fashion as by spinning in a very slow, whirling, drop.

2,667,353
CHESS GAME DEVICE
Theodore R. Lanice, Freeport, N. Y.
Application November 7, 1950, Serial No. 194,445
2 Claims. (Cl. 273—136)



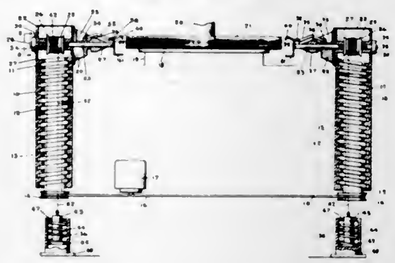
1. A combination chessboard and pouch, comprising, a flat sheet of limp pliable material foldable transversely along a medial portion thereof to form two lateral pairs of adjacent edges connected by another pair of adjacent edges disposed oppositely said folded-over portion, complementary detachable fastening devices secured to said three pairs of edges and being interengageable, whereby said sheet is convertible into a pouch, said interengageable fastening devices constituting a closure for the pouch, said sheet having a representation of a chessboard playing area on a surface of said sheet extending across said medial portion, whereby when said sheet is in its unfolded condition the entire playing area will be exposed, said fastening devices being located outside the said playing area, said sheet being so proportioned that when operatively folded over along said medial portion the said playing area will be completely covered up and each of said pairs of edges will be brought into cooperative alignment, the folded-over sheet in said pouch form being of pliable structure, whereby it will be subject to further folding.

2,667,354
GAME DEVICE
John E. Mathews, Cleveland, and Allan C. Gordon, Maple Heights, Ohio
Application September 21, 1950, Serial No. 186,060
1 Claim. (Cl. 273—141)



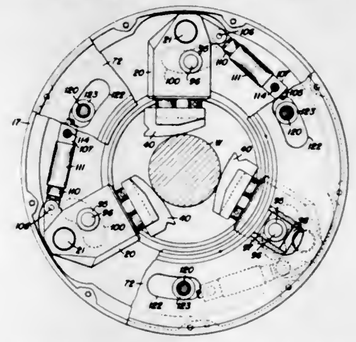
A game apparatus comprising in combination with three dials arranged in line from left to right and each having numbered segments and a pointer carried by a hub to be rotatable to register with said segments, electric motor means under manual switch control to simultaneously initiate and continue the spinning of all of said pointers as long as said switch control continues to be manually operated, said pointers being mounted to continue to coast in their spinning movements after release of said manual switch control means, the hub of the left of said spinning elements being provided with a predeterminedly relatively greater braking means than the other two to insure its coming to rest before the other two, the hub of the middle of said spinning elements being provided with a predeterminedly lesser braking means than that on the left of said spinning element hubs and with a predeterminedly greater resistance to rotation than that on the hub of said pointer that registers with the dial located on the right for automatically insuring said pointers coming to rest in predetermined sequence from left to right in their coasting rotation after the electric motor drive has been released.

2,667,355
RECORD STACK INVERTER FOR AUTOMATIC PHONOGRAPHS AND DISK RECORD PLAYERS
Paul Dandridge, Philadelphia County, Pa., assignor of forty per cent to Mrs. Jessie V. Ondo, Philadelphia, Pa.
Application June 9, 1950, Serial No. 167,126
7 Claims. (Cl. 274—10)



1. An attachment for automatic record players, which comprises means for gripping a stack of records as a unit, means for raising such stack of records and inverting the same while still maintaining it as a unit and for lowering the inverted stack of records into a position in which the said records may be played on their other sides and then releasing such records, the second means including hollow, vertical, helically threaded cylinders, helically threaded, hollow vertical shafts adapted to engage said cylinders which are adapted to move upwardly and downwardly thereon, pulleys for driving said shafts in either direction of rotation and tensioning means connected via said hollow shafts to the gripping means for effecting predetermined changes of tension for controlling independent and relative movements of said gripping means.

2,667,356
HYDRAULIC CHUCK
Worthy J. F. Forward, Rochester, N. Y., assignor to Consolidated Machine Tool Corporation, Rochester, N. Y., a corporation of Delaware
Application March 29, 1952, Serial No. 279,384
24 Claims. (Cl. 279—4)



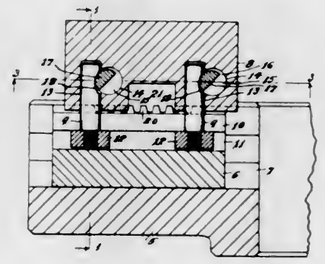
1. A chuck comprising a housing adapted to be secured to the work spindle of a machine to rotate with said work spindle, a plurality of carriers pivotally mounted in said housing, a member reciprocably mounted in each carrier, a work-gripping jaw mounted on each such member and having a gripping surface eccentric of the pivotal axis of the associated carrier, means for pressing said members in one direction to move the jaws into work-engaging positions and for equalizing the pressure on the several members, a brake drum rotatably mounted on said housing, a brake cooperating with said brake drum, and means connecting said brake drum to said carriers to move said carriers about their pivots in opposite directions in accordance with the direction of movement of said brake drum relative to said housing upon application and release, respectively, of said brake.

2,667,357
TOOLHOLDER
Rudolf W. Andreasson, Detroit, Mich.
Application September 5, 1952, Serial No. 307,963
14 Claims. (Cl. 279—81)



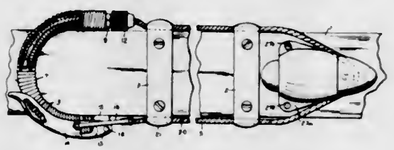
1. A chuck for holding tool shanks comprising a head portion having an axial bore to receive a tool shank and a chordal passage intersecting said bore, a wedge receivable within the confines of said head portion slidable in said passage, and means movable on said head positioned to strike said wedge selectively from either end to shift it to a holding position against a tool shank and to a release position.

2,667,358
CAM LOCK FOR CHUCK JAWS
George A. Highberg, West Hartford, Conn.
Application January 5, 1952, Serial No. 265,166
5 Claims. (Cl. 279—123)



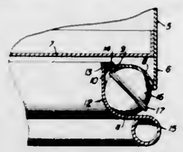
1. A device for adjustably securing and locking a top jaw against a master jaw; the said device comprising a post slidable within a slot in the master jaw and anchored thereto, the said post projecting above the top of the master jaw, the top jaw having a vertical opening therein adapted to slidably receive said post, a transverse opening intersecting the said vertical opening, and a rotatable cam member within said transverse opening having a cam portion engageable with the post.

2,667,359
RETRACTABLE BALL SKI BINDING
Donald A. Goodman, McCall, Idaho
Application November 27, 1950, Serial No. 197,731
5 Claims. (Cl. 280—11.35)



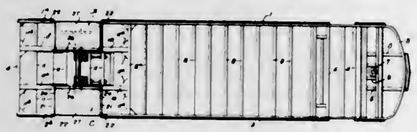
1. Means for releasably attaching a ski boot to a ski, said means comprising a socket having forward and rear open ends, and an attaching flange, an abutment member including a rear end threaded in the forward end of said socket and a forward end having a slot therein, an endless flexible member having a forward portion engaged about said flange and a rear resilient portion adapted to engage about the heel of a ski boot, a boot toe retaining member received in the rear end of said socket and including a reduced rear portion extending rearwardly from the rear end of said socket, a spring in said socket urging the rear portion of said retaining member from the rear end of said socket, and a boot toe attaching plate having a seat therein for accommodiating said rear portion of said retaining member.

2,667,360
ROLLING BASE FOR TRASH CANS AND THE LIKE
Peter Leystra, Fair Lawn, N. J.
Application August 29, 1950, Serial No. 182,109
2 Claims. (Cl. 280—47.32)



1. A base for trash cans and the like comprising an anti-friction assembly including an upper substantially channel-shaped race fixed to the bottom of a can and having an inner edge portion projecting inwardly under the can, a track on top of the inner edge portion of said upper substantially channel-shaped race, a lower race underlying the upper race in opposed relation to each other and having an upstanding inner edge portion, a plurality of pins projecting radially outwardly at the upstanding inner edge portion of said lower race, rollers journalled on said pins and travelling on said track, anti-friction means positioned in the opposed channels of the upper and lower races, and a tubular ground supported ring integrally formed at the lower portion of said lower race and spaced from the outer edge of the upper race to hold the anti-friction means in the races.

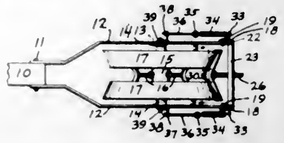
2,667,361
UNDERSLUNG VARIABLE RATE SPRING ASSEMBLY FOR TRAILER TRUCKS
Frank A. Jones, Bristol, Tenn., assignor to Enterprise Wheel and Car Corporation, Bristol, Va.
Application December 26, 1951, Serial No. 263,188
9 Claims. (Cl. 280—106.5)



1. A trailer truck frame including outside and inside sill members, the inside sill members being interrupted at each side of the axle position, springs arranged below and interposed between the adjacent ends of the inside sill members, axle saddles supported upon the springs, an axle supported on the saddles, radius rods connecting each saddle with one end of an inner sill member, said radius rods being located between the springs and extending forwardly from the axle, and a member connecting the adjacent inner ends of the inner sills, said member including a horizontal medial portion and downwardly and outwardly diverging wings, said wings being fixed to the ends of said inner sills.

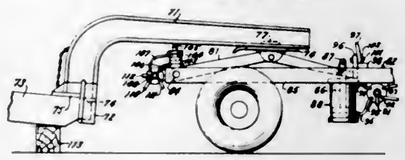
2,667,362
CORN PLANTER PACKER WHEEL SCRAPER
Leslie R. Woodward, Viborg, and Boyd C. Christensen, Hurley, S. Dak.
Application September 20, 1951, Serial No. 247,438
3 Claims. (Cl. 280—158)

3. In combination with a corn planter packer wheel and the yoke in which said wheel is journalled, a substantially U-shaped member pivotally secured at the ends of said yoke, a scraper blade having a pair of angularly inclined scraping portions pivotally secured to said U-shaped member adapted to bear against said planter wheel angular surfaces, means for adjustably securing said scraper blade to said U-shaped member to accommodate the same to various diameters of planter wheels, said U-shaped member being normally at an angle to said yoke, springs attached between said U-shaped member and said yoke whereby said scraper blade will be re-



siliently urged against said wheel, said adjustable and pivotal means including a rod attached to said U-shaped member, a sleeve attached to said scraper blade receiving said rod to permit free pivoting movement of said blade according to the contours in either wheel surfaces, said U-shaped member including stop members attached thereto to provide means for limiting upward movement of said U-shaped member and said scraper blade when said scraper blade is resiliently urged out of wheel-engaging position.

2,667,363
COUPLING FOR TRACTOR AND SEMITRAILER UNITS
Austin G. Talbert, Lyons, Ill., assignor to Talbert Construction Equipment Company, Lyons, Ill., a corporation of Illinois
Application March 28, 1950, Serial No. 152,393
9 Claims. (Cl. 280—425)

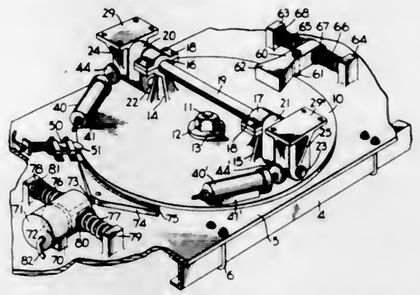


3. The combination with a tractor of the type adapted to support and pull the front end of a semi-trailer through an interposed gooseneck detachably connected with the trailer, of a forwardly and rearwardly tiltable fifth wheel on the tractor to which the gooseneck is adapted to be pivotally connected, manually operable means on the tractor for bodily raising and lowering the fifth wheel, and other manually operable means on the tractor adapted to be connected with the gooseneck rearwardly of said fifth wheel for adjustably supporting the latter against rearward tilting movement at various elevations of the fifth wheel when the gooseneck is disconnected from the trailer.

2,667,364
TRACTOR-SEMITRAILER COUPLING DEVICE
Jesse Colpo, Orchard Park, N. Y.
Application February 23, 1952, Serial No. 273,069
16 Claims. (Cl. 280—432)

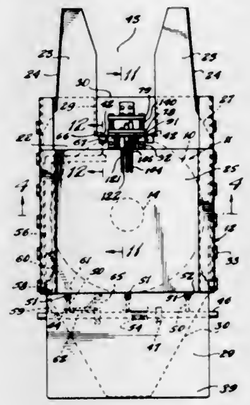
1. In combination with a tractor and a trailer, a connection device therefor comprising base plate means supported on said tractor for movement relative thereto about a substantially vertical axis, spaced upstanding support members carried by said base plate means, shaft means

journaled in said support members, spaced support arms eccentrically pivoted to opposite ends of said shaft means for swinging movement thereabout in a substantially vertical plane,



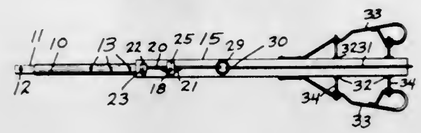
means connecting said support arms to said trailer, and resilient shock absorbing means in operative alignement with at least one of said support arms to limit and cushion the swinging movement thereof.

2,667,365
SWIVEL CONNECTION FOR VEHICLE UNITS
Roy G. Hollifield, Brooklyn, N. Y.
Application January 21, 1950, Serial No. 139,799
1 Claim. (Cl. 280—434)



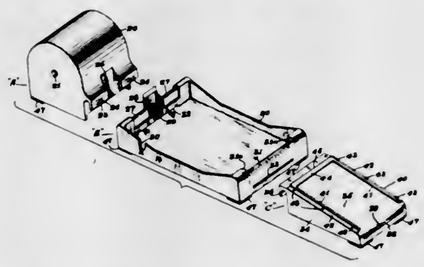
In a swivel connection for a tractor-trailer combination, an apertured base affixed to the tractor, an upper section affixed to the trailer, an intermediate section having bearing engagement with the base and having a king-pin depending therefrom and mounted in the aperture in the base for swivel turning movement of the base with reference to the intermediate section, said intermediate and upper sections having sliding interfitting engagement for coupling the tractor and trailer together, a rock shaft carried by said intermediate section and having locking studs, means tensioning said rock shaft for rocking the same to move the locking studs into engagement with said upper section for locking the tractor and trailer in coupled relation, a slide bar carried by said intermediate section and operatively engaging said rock shaft to maintain the locking studs in retracted relation out of engagement with said upper section, and said slide bar having a forward end adapted to be engaged by the upper section when the tractor and trailer are coupled together for moving the slide bar to release the rock shaft to permit of movement by said tensioning means to thereby move the locking studs into engagement with the upper section.

2,667,366
LONGITUDINALLY ADJUSTABLE DRAFT DEVICE
Albert M. Otjen, Madison, Nebr.
Application October 2, 1950, Serial No. 187,910
1 Claim. (Cl. 280—482)



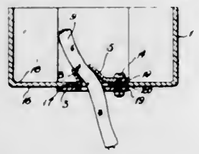
An adjustable tractor and horse drawn hitch comprising a female tube section, a male tube section slidably engaged with said female section, said male tube section having a plurality of openings therein, a pin passing through said female tube section for engagement with any of said openings, a lengthened horizontal lever member pivotally attached to said pin, said lever member being pivoted to the forward end of said female tube section, a keeper straddling said pin and receiving the same, a spring positioned between the top of said keeper and said lever member for forcing said pin downwardly, a cable attached at the rear termination of said lever member for controlling the lever member, said female tube including an abutment member rigidly attached therein, a further abutment member attached to the termination of said male tube, said abutment members preventing separation of said male and female members.

2,667,367
TELEPHONE AND MEMORANDUM PAPER HOLDER
Walter F. Lapinski and Joseph L. Scott, Seattle, Wash.
Application October 21, 1950, Serial No. 191,344
6 Claims. (Cl. 281—6)



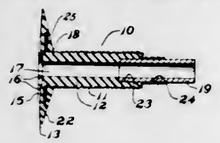
1. In a sectional telephone and memorandum paper holder, the combination comprising: a telephone holding section of a predetermined size and shape, a memo paper roll holding section, means for effecting releasable interlocking engagement of said roll holding section with said telephone holding section including means for preventing lateral movement therebetween, a tablet section, and means for effecting releasable interlocking engagement of said tablet section with said telephone holding section including means for preventing lateral movement therebetween.

2,667,368
CLAMP FOR NONMETALLIC SHEATHED CABLES
Stanley R. Ferguson, Abernethy, Saskatchewan, Canada
Application September 14, 1951, Serial No. 246,663
3 Claims. (Cl. 285—6.5)



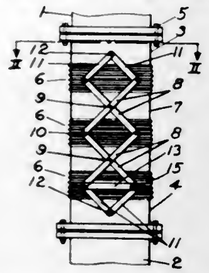
1. A clamp for holding non-metallic sheathed cables in position within a wall of a junction or switch box or the like, comprising in combination a base portion, and a clamping tongue detachably secured thereto, said base portion having a cable supporting saddle formed thereon, said base portion being adapted to lie on one side of the wall of the associated box with said saddle extending through an aperture therein, said tongue adapted to be on the other side of the wall of said box coacting with said base portion to clamp the associated cable in position, said base portion taking the form of an apertured plate, said saddle extending upwardly and outwardly from the edge of said aperture, said saddle being concavo-convex in cross-section thereby acting as a bearing surface for said cable.

2,667,369
FLEXIBLE FLUID-CONDUCTING CONNECTOR
Thomas C. Harper, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 20, 1949, Serial No. 111,527
4 Claims. (Cl. 285—38)



1. A flexible fluid-conducting connector comprising a tubular element of flexible rubber-like material having an annular base flange of said material projecting radially outward from said element at one end thereof, a tubular reinforcing body extending along and exteriorly about said tubular element in snug fitting united relation thereto to resist radial stresses due to internal fluid-pressure within said tubular element, said reinforcing body comprising strands of flexible stretch-resisting filamentary material interlaced in braided tubular form with each strand extending generally helically about and along the longitudinal axis of said reinforcing body and crossing over and under other strands obliquely back and forth circumferentially of said reinforcing body so as to provide a seamless close meshed structure, substantially all the strands of said reinforcing body extending continuously across the junction of said tubular element and said base flange in slightly more open meshed, interlaced relation one to the other and then continuing radially outward from said junction into said base flange in increasingly more open meshed, interlaced relation one to the other to a position of substantially greater diameter than that of said reinforcing body and being anchored to said material of said base flange, flexing of said connector causing said reinforcing body to contract about said tubular element at said junction with a corresponding increase in resistance to flexing of said connector at said junction, and an open-ended hollow element united with both said tubular element and said reinforcing body at the other end of the connector for joining the latter to a fluid-conducting conduit.

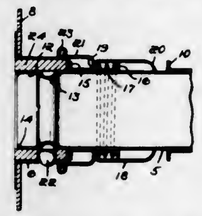
2,667,370
BELLOWS TYPE EXPANSION JOINT AND EQUALIZING SUPPORT THEREFOR
James S. Clarke, East Orange, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 31, 1949, Serial No. 136,359
4 Claims. (Cl. 285—90)



1. In an expansion joint of the character described, for connection between the opposed end portions of two adjoining conduit sections, an assembly comprising a series of at least two tubular, multi-unit bellows-type conduit expansion members, separately disposed between said conduit sections coaxially therewith and with each other, means for securing the outer ends of the outermost expansion members in said series in fluid-tight conduit connection with respective opposed end portions of said adjoining conduit sections, a rigid, pipe-like tubular, spacer element disposed intermediate the opposed ends of adjoining expansion members in said series and coaxially therewith, said spacer element secured at each end to one of the opposed ends of said separate adjoining expansion members in coaxial, fluid-tight conduit connection therewith, whereby said spacer element forms a portion of a fluid flow path between the adjoining conduit sections and means for supporting said joint, and equally distributing total axial movement of said joint among the individual members of said series of expansion members, including at least one pantograph frame member in which a series of cross-link elements are pivotally interconnected in series at a mid-point of each pair and at their ends, said pantograph frame member disposed exteriorly of the joint and pivotally secured at each end with reference to a conduit section end portion and to each rigid spacer element at a mid-point of a pair of said cross-link elements, said member extending longitudinally of the joint between said conduit end portions.

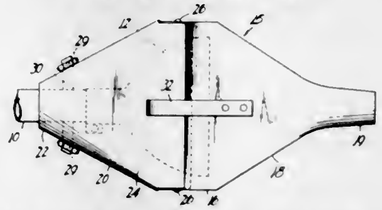
2,667,371
COUPLING FOR CONDUIT PARTS
Paul C. Holte, Canton, Mass., assignor to Pullman Vacuum Cleaner Corporation, Boston, Mass., a corporation of Massachusetts
Application June 13, 1950, Serial No. 167,765
4 Claims. (Cl. 285—168)

1. A coupling for use in connecting a vacuum hose to a vacuum cleaner, said coupling comprising first and second tubular members to one of which said hose is to be connected and the other of which is to be connected to said cleaner, said first member including a pair of axially spaced retainers and a head dimensioned to fit freely within said second member and having an annular groove, a sleeve including a shoulder disposed between said retainers and an annular locking flange, a spring surrounding said first member and backed by the rearmost retainer to



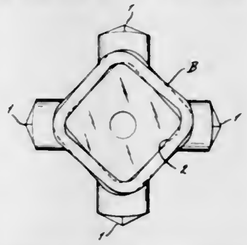
establish a slidable connection between said first member and said sleeve and engaging said shoulder to yieldably seat said shoulder against the foremost retainer to maintain said locking flange in an operative position, and a plurality of balls carried by said second member for radial movement between a first position in which they are spaced apart to receive said head and a second position in which they are entrant of said groove, said locking member holding said balls against movement towards their first position when in its operative position.

2,667,372
AUTOMOBILE TAIL PIPE CONNECTOR
Charles J. Gardner, Bradford, Pa.
Application October 25, 1950, Serial No. 192,102
6 Claims. (Cl. 285—198)



1. An automobile tail pipe connection device for coupling an automobile tail pipe to a conduit for conveying the automobile engine exhaust gases remotely therefrom, said device comprising a box-like casing having a sectionally enlarged mid-section and tapering therefrom in one direction into a reduced diameter circularly sectioned nipple portion adapted to slip-fit into a conduit for conveying away the exhaust gases, said casing tapering away in the other direction from said mid-section into a sectionally reduced throat portion adapted to fit about the outer diameter of the automobile tail pipe, said second tapering casing portion being cut away at the top thereof, a lid adapted to cover said cut away casing portion hingedly connected to said casing so that when the lid is pivoted into open position said casing is opened to receive therein the end of an automobile tail pipe and a dimensionally expanded gas deflector accessory mounted thereon, and whereby upon closure of said lid said casing thereupon completely encloses said deflector accessory to receive therefrom engine exhaust gases for conveyance to said conduit, and means for retaining said lid in closed position.

2,667,373
ROTARY PERCUSSION DRILL
Robert H. Holsing, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application July 20, 1949, Serial No. 105,772
4 Claims. (Cl. 287—126)



1. A drill comprising a drill rod and a separable drill bit therefor, said drill bit having a non-circular socket that is twisted upon itself about its longitudinal axis in the direction that the drill is to be rotated and said drill rod having a similar untwisted non-circular end portion adapted to be forced endwise into said twisted socket, thereby untwisting said socket and thus providing a frictional grip between the sides of said socket and rod end therein.

2,667,374
ARTICULATED SHOCK FENDER
Bruno Signori, Udine, Italy
Application February 16, 1948, Serial No. 8,652
6 Claims. (Cl. 293—70)

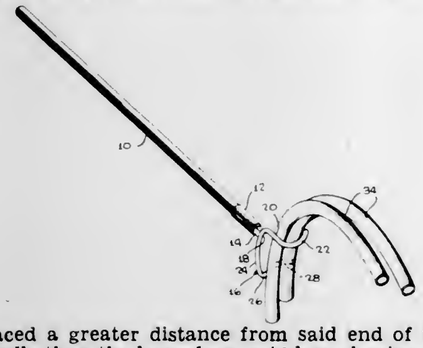


1. An automobile bumper comprising in combination, an elongated central bumper member; two elongated side bumper members, each pivoted at one end to one end of said elongated central bumper member; two supporting members, each adapted to be secured to the body of the automobile; two attaching means, each securing one of said elongated side bumper members between the ends thereof to one of said supporting members slidably normal to the longitudinal axis of the respective side bumper member towards and away from the respective supporting member; and two spring means each arranged between one of said supporting members and the corresponding elongated side bumper member resiliently forcing said side bumper member away from the corresponding supporting member.

2,667,375
IRRIGATION TUBE LIFTER
Alphonse G. Cardinal, Floydada, Tex.
Application September 7, 1951, Serial No. 245,621
1 Claim. (Cl. 294—19)

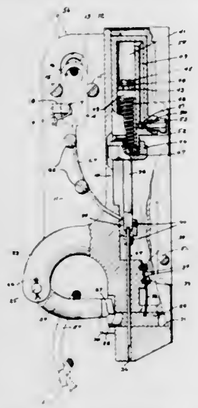
An irrigation siphon tube lifter comprising a handle; and a lifting head projecting beyond one end thereof formed from a single length of rod material having a fixed connection intermediate its ends to said end of the handle, said length of material being shaped to provide spaced upper and lower loop members extending from said fixed connection, the upper loop member including an upper arm extending forwardly from and substantially coaxially aligned with the handle and an upper loop extended laterally of the handle

from that end of the arm remote from the handle and curved rearwardly in the general direction of the handle, the lower loop member including a lower arm extending from said fixed connection in substantially perpendicular relationship to the upper arm, and a lower loop curved oppositely to the upper loop and extending laterally from that end of the lower arm remote from the handle in the same direction as that in which the upper loop is extended, the upper loop being



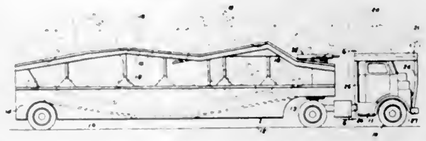
spaced a greater distance from said end of the handle than the lower loop, said loops having intermediate portions respectively shaped to engage under and over a siphon tube at locations spaced longitudinally of the tube, the intermediate portions of the loops being disposed in a line oblique to the longitudinal axis of the handle for overbalancing of one end portion of the tube to force the opposite end portions thereof against the respective loops.

2,667,376
PARACHUTE QUICK RELEASE COUPLING
Fred W. Schlachter, Rockwell City, Iowa
Application July 21, 1950, Serial No. 175,036
5 Claims. (Cl. 294—83)



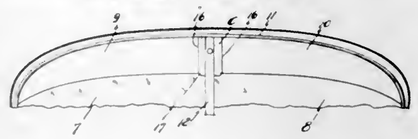
1. In a quick release coupling having a frame and a timed positive lock release mechanism, a pulling shock actuated trigger means for starting the timing cycle of said timed positive lock release mechanism; said trigger means comprising; a slide way in said frame a moveable element having a hole in it constructed and arranged to slideably fit in said slide way, an elongated hole in the lateral center of said slide way and nearer one end of said slide way than the other; a portion of said elongated opening always registering with the hole in said moveable element; and a means for operatively connecting said moveable element to said timed positive lock release mechanism; whereby when said moveable element is at one end of said slide way and a connecting member is inserted through the hole in said moveable element and the opening in said slide way, a pulling shock on said connecting member will pull said moveable element to the other end of said slide way and permit the frame to engage said connecting member and simultaneously starting said timed positive lock release mechanism on its timed operation.

2,667,377
MOTORCAR CARRIER, FIVE-CAR CAPACITY
Clarence C. Stuart, Dearborn, Mich., assignor to Traffic Transport Engineering, Inc., Dearborn, Mich., a corporation of Michigan
Application August 14, 1951, Serial No. 241,787
21 Claims. (Cl. 296—1)



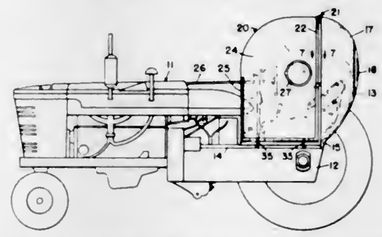
1. In combination, a tractor and a trailer attached thereto for hauling vehicles, said tractor having a platform thereon for supporting one end of the vehicle being hauled, said trailer having at the front end thereof a track section for supporting the other end of the vehicle being hauled, said track section being pivotally supported on said trailer, said track section being longitudinally shiftable on said trailer, said trailer being connected with the tractor by means of a fifth wheel, said track section being pivotable on said trailer on a vertical axis coinciding with the vertical axis of pivoting of said fifth wheel, and including a fifth wheel between said track section and said trailer and supporting said track section on said trailer.

2,667,378
GLARE SHIELD AND CLIP THEREFOR
Norman McKay Holme-Shaw, Saginaw, Mich., assignor to Visilite Corporation, Saginaw, Mich.
Application September 11, 1948, Serial No. 48,877
2 Claims. (Cl. 296—97)



1. The combination with a pair of generally rectangular, flexible glare shields having optically true surfaces adapted to be arranged in intimate facial contact with the upper edge of a windshield panel having a dividing center post, each shield being shaped to fit the contour of the upper and side edges of the windshield panel and receivable beneath the windshield frame in clamping engagement with the windshield panel, each sheet being of a size to extend across the windshield panel from one side edge to a po'nt adjacent said center post and extending downwardly from the upper edge of the windshield to a point slightly above the line of sight of the driver, the faces of the plastic flexible sheets and windshield being flat and true to form mutually adhering surfaces when rubber, of a crowned, flexible, sheet member insertable between the windshield center post garnish trim and said center post with the side edges bearing on the inner ends of said glare shields, said metallic sheet member being provided with an opening on its center line adapted to correspond in position to one of the fastener receiving openings in the center post.

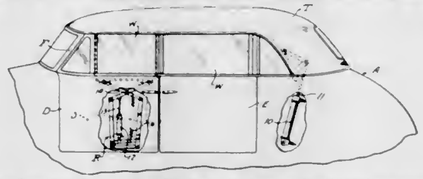
2,667,379
PLASTIC TRACTOR CAB
Grady P. Baze, Idalou, Tex.
Application May 29, 1952, Serial No. 290,731
3 Claims. (Cl. 296—102)



3. In a vehicle cab, a forwardly facing concave rear cab section and a rearwardly facing concave front cab section said cab sections having marginal edges including lower edges, a pair of laterally spaced horizontal guide rails having rear ends, a cross bar extending between and fixed to the rear ends of said guide rails, an inverted U-shaped rear cab section frame having legs having lower ends secured to the rear ends of the guide rails, the marginal edges of the rear cab section being secured to and extending around said rear cab section frame with the lower edge of the rear cab section secured to said cross bar, a front cab section frame comprising horizontal legs having rear ends and an inverted U-shaped portion fixed to and rising from the rear ends of said horizontal legs, the marginal edges of the front cab section being secured to said inverted U-shaped portion and the lower edges of the front cab section being secured to and extending along said horizontal legs, and means mounting said horizontal legs on and confining said horizontal legs to movement along said guide rails for moving said front cab section from a closed position in which the front cab section inverted U-shaped frame portion is in engagement with the rear cab section inverted U-shaped frame to an open position away from said rear cab section, said mounting means comprising flanges extending along said guide rails, fixed rollers on said front cab section frame legs engaging one side of said flanges, and spring pressed rollers on said front cab section frame legs engaging the other side of said flanges, said spring pressed rollers serving to retard movement of the front cab section toward and away from said rear cab section, said spring pressed rollers being pivoted on said horizontal legs to swing into and out of engagement with the said flanges.

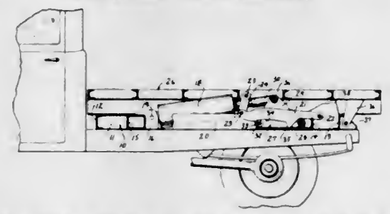
2,667,380
COMBINED REGULATOR SYSTEM FOR SELECTIVE OPERATION OF VEHICLE TOPS, WINDOWS, AND OTHER PARTS
John B. Parsons, Maumee, Ohio
Application August 10, 1950, Serial No. 178,651
5 Claims. (Cl. 296—117)

2. A hydraulic system for convertible automobiles having a folding top and a plurality of shiftable members, such as windows or seats, said system comprising; a reversible electric motor having first and second input circuits selectively energizable for driving said motor in one direction or the other; a fluid pump driven by said motor and having a first port on one side thereof for delivering fluid under pressure upon operation of said motor in said one direction; each of said regulator members including a hydraulic regulator motor for shifting said member in one direction in response to pressure fluid input thereto and means for shifting said member in the opposite direction; individual fluid conduit means connecting each of said hydraulic motors and said first port; a normally closed solenoid valve in each of said individual fluid conduit means; individual control circuit means for opening each of said normally closed solenoid valves upon energization thereof; said pump also having a second port on the other side thereof for delivering fluid under pressure upon operation of said electric motor in the other direction; top operating mechanism including a reversible fluid motor having first and second fluid conduits on respectively opposite sides thereof and arranged



to raise or lower said top upon input of pressure fluid to said first or second fluid conduits, respectively; fluid connections between said first and second conduits and the first and second pump ports; a normally open solenoid valve in one of the last-named conduits, a further control circuit for said normally open solenoid valve for closing the same upon energization thereof; a source of electricity; a plurality of individual switch means respectively associated with said regulator mechanisms and alternatively actuatable for concomitantly connecting said source of said first input circuit, to said further control circuit, and to the individual control circuit for the solenoid valve in the regulator mechanism with which said individual switch means is associated or for connecting said source to said last-named control circuit whereby to operate the selected one of said member regulating mechanism independently of said top operating mechanism; and other switch means for selectively connecting said source to said input circuits whereby to operate said top operating mechanism independently of said member regulating mechanisms.

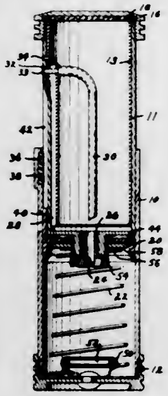
2,667,381
MECHANISM FOR ACTUATING DUMP BODIES
Anthony J. Tripodi, Niles, Ohio, assignor to The Lodestar Corporation, a corporation of Ohio
Application September 27, 1950, Serial No. 187,080
4 Claims. (Cl. 298—22)



1. A truck dumping mechanism adapted to be operated by a fluid cylinder, comprising: a frame;

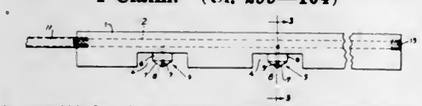
a dump body pivotally secured to said frame; link means connecting said frame and said dump body, said link means having a cam-like surface; abutment means forming a portion of said cam-like surface and adapted to function as a limit stop; roller means movable over said cam-like surface and being engageable with said abutment means; and bell-crank means pivotally secured to said frame and having a portion pivotally attached to the piston rod of said fluid cylinder, said bell-crank means carrying said roller means in contact with said cam-like surface in manner to provide a variable lifting ratio throughout the dumping operation.

2,667,382
ATOMIZER
Harold A. Roselund, Dayton, Ohio, assignor to C. W. Harwin Inc., Dayton, Ohio, a corporation of Ohio
Application May 20, 1950, Serial No. 163,143
3 Claims. (Cl. 299—88)



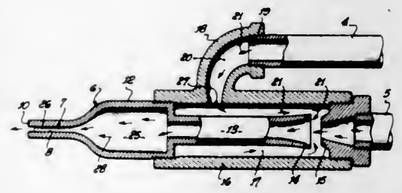
1. In a pocket type of perfume atomizer, an outer cylindrical housing, an inner cylindrical housing telescopically mounted within said outer housing, said inner housing having an embossed longitudinally extending groove, a nozzle carried by said inner housing and having its outlet arranged beyond the outer surface of said inner housing adjacent said outlet, an inwardly directed embossed portion on said outer housing seated in said groove and arranged in alignment with said nozzle, an outwardly embossed portion on said outer housing, a nozzle sealing means supported within said outwardly embossed portion for engaging the outer end of said nozzle in one relative position of said housings, and means for venting said inner housing including an opening in the one wall of said inner housing arranged adjacent said nozzle so as to be closed by said nozzle sealing means.

2,667,383
MULTIPLE JET SPRAY DEVICE
Walter E. Hensel, South Berwick, Maine
Application May 15, 1952, Serial No. 287,977
1 Claim. (Cl. 299—104)



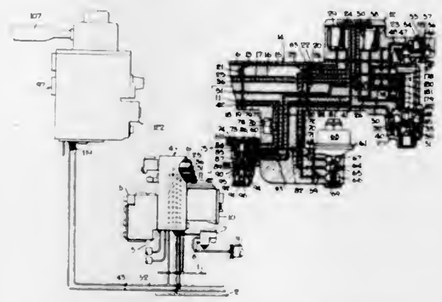
A multiple jet spray device comprising an elongated one-piece integral body member having a liquid-containing chamber and a separate air-containing chamber extending longitudinally thereof and also having integral therewith a plurality of laterally directed nozzle members, each presenting a relatively flat cone-shaped end portion, means for delivering to the liquid-containing chamber the liquid to be sprayed under approximately atmospheric pressure, means to deliver air under pressure to the air-containing chamber, each nozzle member having an air delivery duct extending axially therethrough and communicating at its inner end with the air-containing chamber and open at its outer end at the tip of the cone-shaped end portion of said nozzle member, each nozzle member also having a liquid delivery duct communicating at its inner end with the liquid-containing chamber and opening through the cone-shaped end portion of said nozzle member at a point between the tip and the base of the cone shape and above and spaced from the tip, whereby the liquid under atmospheric pressure which is delivered from the liquid delivery duct will spread by gravity in the form of a film over a portion of the conical surface between the liquid delivery duct and the air delivery duct at the tip of the nozzle, said film flowing toward said air delivery duct and being atomized by the air issuing therefrom.

2,667,384
OIL BURNER
Herman Phipps, Montebello, Calif.
Application April 13, 1951, Serial No. 220,870
2 Claims. (Cl. 299—140)



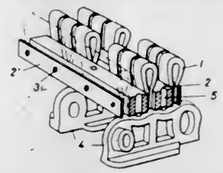
1. In an oil burner: a nozzle structure having means forming a discharge passageway, a chamber communicating with said discharge passageway, and an elongate member having a through aperture forming an inlet passageway communicating with said chamber, said chamber forming an abrupt and substantial enlargement at said inlet passageway; said inlet passageway terminating in an intake opening formed by a flared end of said elongate member and defining an end surface between the exterior and interior of said elongate member; a housing; means securing said nozzle structure to said housing and positioning said elongate member in said housing to form a passageway surrounding said elongate member, the intake opening being within the housing; means supplying fuel into said surrounding passageway at a place remote from said intake opening and adjacent said elongate member; and a conduit for supplying a fluid medium under pressure into said intake opening and for drawing fuel around said end surface, said conduit converging and forming an opening in said housing aligned with said intake opening, and spaced substantially therefrom, the diameter of said conduit opening being less than the diameter of said intake opening.

2,667,385
DYNAMIC AND FLUID PRESSURE BRAKE INTERLOCK APPARATUS
Erik G. Erson, Wilkinsburg, and Glenn M. Thomas, Dravosburg, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application October 28, 1950, Serial No. 192,788
16 Claims. (Cl. 303—3)



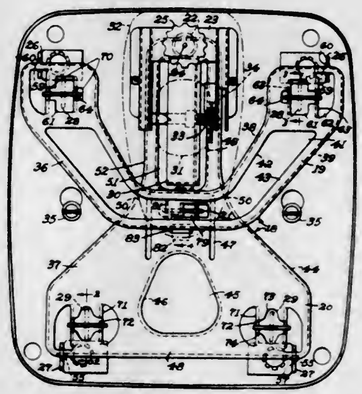
15. In a fluid pressure brake equipment in which brakes are adapted to be controlled from either a brake pipe or a straight air pipe, the combination of brake applying means operable by fluid under pressure to effect an application of brakes, a brake controlling valve device comprising a pipe bracket, valve means carried by said bracket operative upon a reduction in brake pipe pressure to supply fluid under pressure for operating said brake applying means, a straight air pipe passage in said bracket adapted for connection with said straight air pipe for conveying fluid under pressure to operate said brake applying means, an independent application and release valve device, a filler piece removably carried by said bracket and carrying said independent application and release valve device, a double check valve in said independent application and release valve device adapted to be subjected on opposite ends to pressure of fluid provided by said valve means and from said straight air pipe passage, respectively, for selectively establishing communication for the flow of such fluid pressure to a side outlet of said double check valve, interlock means removably carried by said filler piece controlling communication between said straight air pipe bracket passage and the respective end of said double check valve and operative to open said communication upon substantial equalization of opposing fluid pressures in first and second chambers and to close said communication and vent the connection to the respective end of said double check valve upon venting of fluid under pressure from said second chamber when fluid under pressure is present in said first chamber, means opening said first chamber to said straight air pipe passage, said independent application and release valve device further comprising release means controlled by opposing pressures of fluid in third and fourth chambers and operative to reduce pressure of fluid in said third chamber to substantial equalization with pressure of fluid in said fourth chamber, and a selector valve device movable to one position upon release of fluid under pressure from a fifth chamber for opening said second chamber to said brake applying means and closing communication between said brake applying means and said third chamber and movable to another position upon supply of fluid under pressure to said fifth chamber to open said third chamber to said brake applying means and said second chamber to atmosphere, a dynamic brake controlled device removably carried by said filler piece for selectively opening communication between said side outlet of said double check valve and said brake applying means or for closing such communication and opening said brake applying means to atmosphere, an application and release pipe and an actuating pipe connected to said bracket, and means opening said application and release pipe and said actuating pipe through said bracket and filler piece to, respectively, said fourth chamber in said release means and said fifth chamber in said selector valve device.

2,667,386
TRACTION CHAIN SHOE
Arne Lars Mathisen, Sandvika, Norway
Application August 25, 1952, Serial No. 306,170
Claims priority, application Norway August 27, 1951
7 Claims. (Cl. 305—10)



1. A traction chain shoe comprising a base structure and a plurality of substantially U-shaped elements made of a yielding, resilient material arranged with the legs of each individual U-shaped element in parallel relation substantially transversely to the principal direction of movement of the shoe, and means interconnecting the said base structure and the free ends of the legs of each of the said U-shaped elements.

2,667,387
BATHROOM SCALE
Mike A. Provenzano, Rockford, Ill., assignor to The Brearley Company, Rockford, Ill., a corporation of Illinois
Original application March 10, 1947, Serial No. 733,582. Divided and this application December 4, 1950, Serial No. 199,019
2 Claims. (Cl. 308—2)



1. As an article of manufacture, a swingable fulcrum bearing for use in scales and the like, said bearing being constituted by a piece of sheet

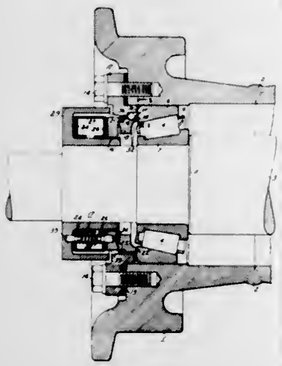
metal having a generally U-shape with aligned outwardly reaching portions at the outer ends of the arm portions of the U, said outwardly reaching portions being provided with knife edges in axial alignment on their lower faces and which are adapted to carry the bearing in a vertical plane upon a support for swinging movement about an axis coincident with said knife edges, and with the cross portion of the U having on its upper face a knife edge co-planar with and facing the other said knife edges, all of said knife edges being formed by cold working between dies under heavy pressure whereby the metal which constitutes such edges is compacted to enhance the work hardness of such edges.

2,667,388

BEARING AND SEAL ASSEMBLY

Frederick A. Schick, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application May 24, 1950, Serial No. 163,881
5 Claims. (Cl. 308—187.1)



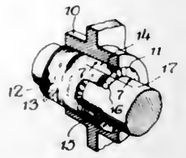
1. In combination with a pair of relatively rotatable radially inner and outer parts, an antifriction bearing having an annular inner race connected in radial and axial thrust transmitting relation with said inner part, and annular outer race connected in radial thrust transmitting relation with said outer part, and an annular series of antifriction bodies operatively interposed between said inner and outer races; an axial contact seal unit at one side of said antifriction bearing comprising an axially shiftable sealing ring, resilient backing means for said sealing ring at the side of the latter remote from said antifriction bearing, and an abutment ring having a radial sealing surface at one side thereof in axial contact with said sealing ring, and an annular end face at its other side in axial contact with an annular end face of said outer race, the outside diameter of said annular end face of said abutment ring being smaller than the outside diameter and larger than the inside diameter of said annular end face of said outer race; an annular retainer having an end face in axial contact with the portion of said end face of said outer race which extends beyond said end face of said abutment ring, connecting means between said outer part and said retainer operative to secure said retainer in axially fixed relation to said outer part; and means for mounting said abutment ring within said retainer in axially shiftable relation to the latter.

2,667,389

BEARING CONSTRUCTION

Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware

Application August 28, 1947, Serial No. 771,103
30 Claims. (Cl. 308—240)



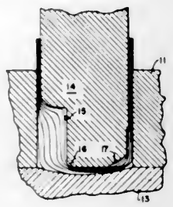
1. A self-lubricating bearing construction comprising a bearing member composed of multiple layers of material provided with a bore therein for receiving a shaft, said layers being disposed axially of the shaft with an edge thereof defining the bore and the bearing having a relatively large number of small passages of greater length than their widths and terminating in said bore for storing lubricant for lubricating the shaft.

2,667,390

PISTON OR LIKE CUP-SHAPED ARTICLE

Romaine Elden Watson, Los Angeles, John R. Boston, West Los Angeles, and Carl Lehmeier, Santa Monica, Calif., assignors to Metalfio Corporation, a corporation of Nevada

Application June 26, 1948, Serial No. 35,388
2 Claims. (Cl. 309—10)



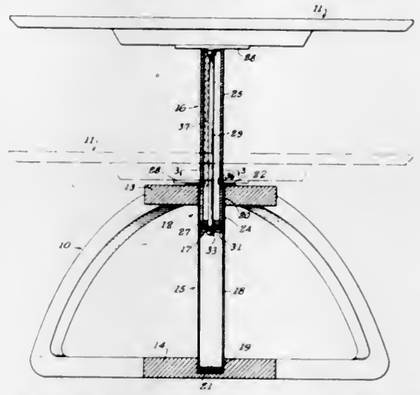
1. A hollow piston having an integral head portion, a ring flange portion, opposed wrist pin boss portions, and a skirt portion, each formed from metal displaced from a blank, said head portion having a crystalline structure with unbroken slip-planes continued from the slip-planes of said head portion and extending parallel to the inner and outer faces of the ring flange, said boss portions having a crystalline structure with unbroken slip-planes extended from the head portion and parallel with the inner and outer faces of the boss portions, said skirt portion having a crystalline structure with unbroken slip-planes extended from the ring flange and substantially parallel with the inner and outer faces of the skirt portion, said ring flange portion terminating intermediate the ends of the wrist pin bosses and being substantially thicker than the skirt portion and thinner than the wrist pin bosses, said wrist pin bosses extending from the head portion and being substantially thicker than the ring flange and skirt portions, with the opposed inner faces thereof in substantially parallel relation, and said ring flange and skirt having substantially parallel inner and outer faces, whereby unbroken slip-planes of the metal extend from the head through sections of widely varying thickness to the extremity of the uniformly thin skirt portion.

2,667,391

VERTICALLY ADJUSTABLE TABLE STRUCTURE

John J. Keal, Los Angeles, Calif., assignor to Brown-Saltman, South Gate, Los Angeles, Calif., a corporation of California

Application December 22, 1952, Serial No. 327,365
2 Claims. (Cl. 311—39)



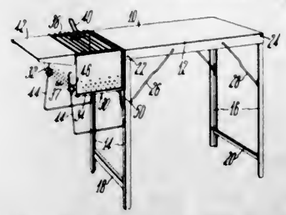
1. A table including a base plate, said base plate being formed with a central socket in its upper face, an open ended cylinder having its closed end seated in the socket, a bearing enclosing the upper end of the cylinder, said bearing being supported by said base plate, a table top, a tubular plunger structure depending from the central portion of the table top, a closure for the lower end of said plunger, a rod fixed in the table top and extending axially through said tubular plunger and below said closure plate, said rod having a threaded lower extremity, a packing structure on the lower end of said rod, said packing structure having its upper face abutting said closure plate, a threaded member on the end of the rod for securing said packing structure against said closure plate, and means for locking said tubular plunger in adjusted position within the cylinder, including a pin member fixed on one element and a bayonet slot in the other element, the pin member being adapted to slide into the vertical leg of the bayonet joint during adjustment of the parts and to be moved into the horizontal portion of the bayonet slot for locking the parts against relative vertical movement.

2,667,392

TABLE WITH DETACHABLE BOX

Edward W. Sexton, Cambridge, Mass., assignor to Sexton Can Company Incorporated, Everett, Mass., a corporation of Massachusetts

Application July 8, 1950, Serial No. 172,677
1 Claim. (Cl. 311—103)



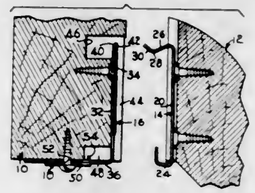
In combination, a table having at one end thereof two brackets having channels facing away from each other and diverging downwardly, and a metal open-top box having two wicket-shaped bails pivotally attached to the sides of the box and swingable about respective ends of the box from an upwardly extending position for use as carrying handles to a downwardly extending and diverging position in which position portions of the bails are adapted to engage in said channels to support the box against said end of the table.

2,667,393

KNOCKDOWN FURNITURE LEG ATTACHING DEVICE

Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application March 1, 1952, Serial No. 274,385
3 Claims. (Cl. 311—110)



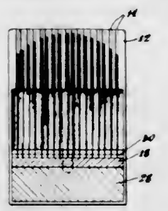
1. A fastener assembly for use in the assembly of tables of the type having a center post and a series of legs for attachment to the center post so as to extend radially downwardly therefrom, said fastener assembly comprising a first member for assembly onto the leg, said first member having an elongated body with hook means at the lower end and a shouldered spring tongue protruding therefrom at the upper end, a second member for attachment to the center post comprising an elongated base having hook receiving means at the lower end and means at the upper end for receiving the shouldered spring tongue of the first member in snapping engagement, and a third member for assembly onto the bottom of the center post, said second member and said first member having cooperating interengaging means to resist outward forces applied to the lower end of the second member.

2,667,394

DISPENSER FOR ARTICLES OF MAGNETIC MATERIAL

Dorothy N. Goetz, Tenafly, N. J., and Robert C. La Borde, Bronxville, N. Y.

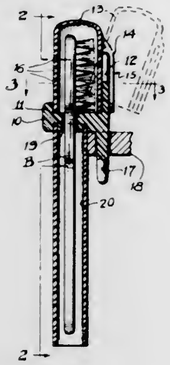
Application April 1, 1950, Serial No. 153,478
7 Claims. (Cl. 312—79)



1. A needle dispenser including a case of non-magnetic material; a closure for the upper end of the case consisting of strip material provided with spaced holes arranged side by side, extending in the direction of the length of the case, and being of diameter somewhat greater than the diameter of the needles to be dispensed; a mag-

netic carrier extending inside the case and in line with the said holes, provided with depression of the upper surface to receive the ends of the needles, and fitting movably so that it may be moved lengthwise of the case, towards either end thereof; a side wall of the case provided with a slot extending lengthwise of the case; a handle for the magnetic carrier extending through the said slot in movable manner, so that movment of the handle towards an end of the case causes a corresponding movement of the magnetic carrier; and a bar of magnetic material disposed in the bottom part of the case so as to exert attraction for the magnetic carrier.

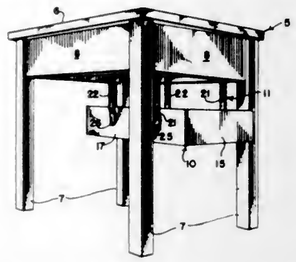
2,667,395
TOOTHBRUSH HOLDER
Vaselei V. Ushanoff, Los Angeles, Calif.
Application June 25, 1951, Serial No. 233,479
2 Claims. (Cl. 312—206)



1. The combination, with a standard bath room fixture having a vertical aperture, of a toothbrush holder comprising a block, a leg formed integral with the rear portion of said block and removably positioned in the aperture in said bath room fixture, the block being provided in its top with a shallow depression, a pin projecting upward from said block to the rear of said depression, there being an aperture formed in the depressed portion of said block for reception of a toothbrush, a cap removably seated in said depression for covering the upper portion of a toothbrush occupying said aperture, vertical flanges on the rear portion of said cap for engaging said pin to hold said cap in place, and with an open ended tube depending from the block to provide a cover for the depending portion of said toothbrush.

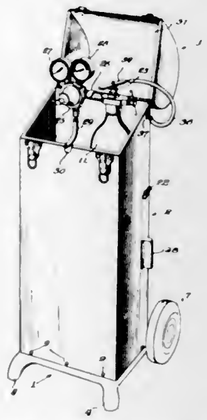
2,667,396
TABLE OR THE LIKE WITH NORMALLY CONCEALED MINOR SERVICE MEMBER
Charles L. Liggett, Goodlettsville, Tenn.
Application December 30, 1952, Serial No. 328,608
5 Claims. (Cl. 312—248)

1. In combination, a major horizontal service member provided with a depending abutment, a minor horizontal service member, means pivotally supporting said minor member from said major member so that it may be disposed, in a first position, beneath and closely adjacent to the underside of said major member and spaced from said abutment or swung to a second position spaced a considerable distance below said major member and abutment, and a bar movably carried by said abutment normally acting as a strut between said abutment and minor member for



releasably retaining said minor member in said first position.

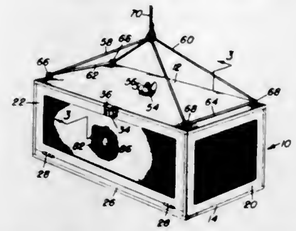
2,667,397
PORTABLE INHALATOR
John Charles Hallisey, Chicago, Ill.
Application September 28, 1948, Serial No. 51,602
1 Claim. (Cl. 312—250)



A portable therapeutic device comprising a mobile cabinet body including front and rear walls each having an upper edge, said cabinet body having an open top and being adapted to carry a tank containing a gaseous fluid under pressure selectively dispensable through a flexible tube carrying a mouthpiece, a wheelbarrow base mounting said cabinet for movement and including supporting legs extending downwardly adjacent said front wall and rotatable wheels adjacent said rear wall, a dome-type cover member adjacent said open top and hinged to the upper edge of said rear wall of said body for swinging movement into a closing position with respect to said body wherein said tank is completely enclosed within said body, said cover member having a lower front edge abutting against the upper edge of said front wall in said closing position, cooperating means formed on the upper edge of said front wall of said body and on the lower front edge of said cover member and defining an opening when said cover member is in said closing position for the extension therethrough of said flexible tube, said mobile cabinet body being tilted rearwardly to clear said supporting legs whereby said mobile body may be moved along with a patient while said patient is receiving said gaseous fluid from said mouthpiece which is accessible exteriorly of said front wall of said body, latch means on said body and cover member for

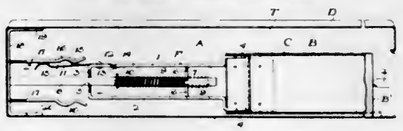
detachably securing the latter in said closed position, and a handle connected to said cover member for tilting and moving said mobile cabinet body.

2,667,398
CAMPER'S STORAGE CABINET
Harlan W. Claflin, Bakersfield, Calif., assignor of one-half to T. R. Claflin, Bakersfield, Calif.
Application October 19, 1950, Serial No. 190,939
1 Claim. (Cl. 312—265)



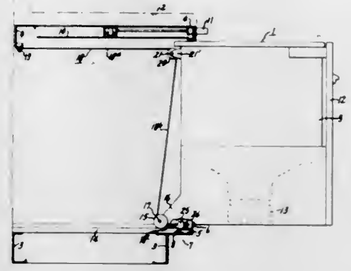
A camper's storage cabinet comprising upper and lower walls, a rear wall, a pair of end walls hinged to said rear wall, a strip extending between said end walls, a forward wall hinged to said strip, locking means between said upper wall and said forward wall retaining the forward wall raised and between said end walls, said end walls and said rear wall having upper and lower recesses therein, lugs on said upper and lower walls entering said recesses, a vertical bolt connecting the upper and lower walls and clamping the end walls and rear wall between said upper and lower walls, said forward and rear walls having central openings therein, closures for said openings, the openings in said forward and rear walls adapted to receive the bolt when the walls of the cabinet are disposed in juxtaposition.

2,667,399
EXTENSION LEAF FOR FURNITURE
Albert T. Swimmer, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio
Application August 19, 1948, Serial No. 45,153
4 Claims. (Cl. 312—319)



1. An article of furniture including a pocket having a plunger abutment, an extension leaf member slidably supported in the pocket, a substantially U-shaped frame at the inner end of said member and having an opening in its end wall while the extremities of the arms thereof are secured to said member, guide elements struck inwardly from the opposite arm portions of said frame, a plunger slidably mounted in said opening in the end wall and in said guide elements, a normally unenergized spring confined between said guide elements and an abutment on the plunger, a spring leaf having a latch portion at one end and having its opposite end secured to one arm of said frame, a keeper carried by said plunger abutment and having a forwardly projecting portion provided with a keeper socket for receiving the latch portion of said spring, said latch portion of the spring and the keeper socket normally holding said member in the pocket, and said latch portion and keeper socket upon application of initial inward force on the exposed face of said member being adapted to disengage and as the force continues, the plunger bearing against the abutment thereby loads the spring whereby, upon release of manual force on the said member, the loaded spring will force the member out of the pocket and cause the latch portion of said spring to slide over the keeper.

2,667,400
APPLIANCE OF THE DRAWER TYPE
Gaylord H. Wotring, Fairfield, Conn., assignor to General Electric Company, a corporation of New York
Application May 9, 1952, Serial No. 286,871
1 Claim. (Cl. 312—331)

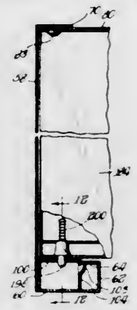


In an appliance structure having walls defining a fixed cabinet having a front opening therein and an appliance in said cabinet, slide means for said appliance comprising a pair of spaced apart rails in the lower portion of said cabinet lying in a direction normal to said front opening, a pair of wheels on the sides of and toward the rear of said appliance rolling on said rails respectively to movably support said appliance at the rear, a pair of fixed anchors at the upper rear of said cabinet spaced apart transversely thereof and a pair of fixed anchors at the lower front of said cabinet spaced apart transversely thereof, two pairs of transversely spaced pulleys on said appliance at the upper and lower rear portions thereof respectively, a pair of non-extensible cables, each anchored at one end to the anchor means on one side of said cabinet at the lower front thereof and directed back therefrom to pass over the pulley at the lower portion of the appliance at that side and thence directed upwardly and laterally of said appliance to pass over the pulley at the upper rear thereof on the other side of the appliance and from which it is directed to said anchor at said other side at the top of said cabinet and means for attaching it to said anchor, thereby to provide lateral stability of said appliance.

2,667,401
CONVERTIBLE CABINET
Harvey G. Knuth, Elgin, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois
Application November 23, 1945, Serial No. 630,289
10 Claims. (Cl. 312—351)

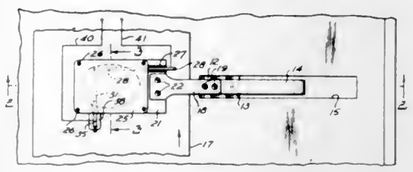
10. A cabinet including a back and two vertically extending spaced sides, said back having two spaced vertical series of integral struck out lips spaced apart vertically, certain of said lips in each series extending upwardly and inwardly alternate lips in each series extending down-

wardly and inwardly, each of said sides having a flange overlying the rear wall of the back and overlying the openings formed by said lips to close said openings, each side at the front being bent reversely inwardly to form an integral hollow substantially rectangular column, the inner end of said reversely bent portion being spaced from the adjacent side wall, a rigidifying channel of sheet metal having an intermediate wall and integral spaced parallel side flanges, said channel



being disposed in the space between the side wall and the free inner end of said reversely bent portion, the flange of said channel adjacent said free inner end of the rectangular column having a tongue portion formed thereon adapted to engage said free end whereby to hold said channel in assembled relationship with said column, and the intermediate wall of said channel having a vertical series of apertures formed therein, said lips and said apertures being adapted to co-operate to support auxiliary supporting means.

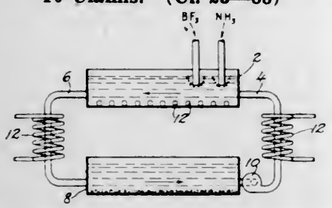
2,667,402
MARKING DEVICE
Paul Traugott, Greenwich, Conn., assignor to Electro-Physical Laboratories, Inc., Rye, N. Y., a corporation of New York
Application July 27, 1951, Serial No. 238,972
3 Claims. (Cl. 346—140)



1. In a marking device, a support having a reservoir for containing a body of ink that is substantially non-liquid and non-free-flowing at normal room temperatures, a pen comprising a small diameter unobstructed hollow metal tube mounted on said support and having part of its length and an open portion disposed within the reservoir below the ink level and a pen point portion projecting from said reservoir, at least the length of said tube within said reservoir being of high electrical resistance metal so as to become heated by passage of electric current therethrough to render said ink body liquid, and means for connecting said high resistance length of tube into an energizing electrical circuit, said tube being of such dimensions that the liquefied ink will flow freely therethrough toward the pen point by capillary action.

CHEMICAL

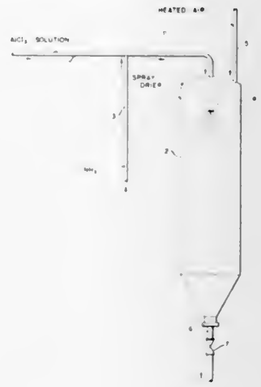
2,667,403
METHOD OF PRODUCING MONOAMMINO BORON TRIFLUORIDE
Frank J. Sowa, Cranford, N. J.
Application January 16, 1951, Serial No. 206,174
10 Claims. (Cl. 23—88)



1. The method of producing monoammino boron trifluoride which comprises the step of bringing boron trifluoride and ammonia into reaction contact in an aqueous liquid using sufficient ammonia to render the liquid ammoniacal, maintaining the temperature of the liquid below about 50° C. and separating the resulting product from said liquid.

2,667,404
MANUFACTURE OF ALUMINA PARTICLES
Vladimir Haensel, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application August 30, 1951, Serial No. 244,450
3 Claims. (Cl. 23—143)

1. A process for the production of alumina particles from a solution of a chloride of aluminum which comprises supplying a stream of said solution to a drying zone, introducing ammonia into said stream while in transit to said zone, promptly thereafter spraying the resultant mixture into the drying zone and therein contacting the sprayed mixture with a gas at a temperature sufficient to evaporate water from the mixture.



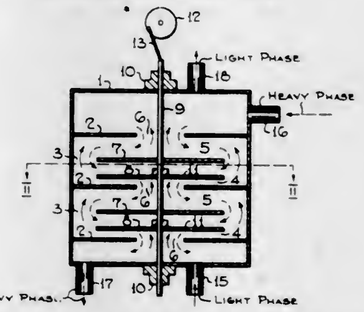
2,667,405
PRODUCTION OF A MANGANESE DIOXIDE FOR USE AS DEPOLARIZER IN DRY CELLS
Wilhelm Müller, Leverkusen, and Heinrich Kircher, Koln, Germany, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany, a corporation of Germany
No Drawing. Application January 9, 1951, Serial No. 205,213
Claims priority, application Germany January 16, 1950
5 Claims. (Cl. 23—145)

1. Process for production of α-manganese dioxide which comprises heating a manganese dioxide selected from the group consisting of amorphous and γ-manganese dioxide with a mineral acid of about 50–100% strength to a temperature of about 70 to 120° C. for a period of time of about ½ to 1 hour, interrupting the heat treatment, removing the acid from the α-manganese dioxide formed, washing the α-manganese dioxide until free from acid and drying.

2,667,406
PROCESS FOR PRODUCING INSOLUBLE SULFUR
Ralph Eugene Morningstar, Columbus, Ohio, assignor to Mathieson Chemical Corporation, a corporation of Virginia
No Drawing. Application December 19, 1950, Serial No. 201,692
3 Claims. (Cl. 23—224)

1. A process for producing insoluble sulfur which comprises quenching superheated sulfur vapor with a liquid carbon tetrachloride quenching medium to a temperature below about 60° C., freeing the condensed sulfur of quenching medium, aging the sulfur product for a period of time sufficient to effect stabilization and hardening, and reducing the sulfur product to particle form.

2,667,407
LIQUID-LIQUID CONTACT METHOD AND APPARATUS
Merrell R. Fenske and Robert B. Long, State College, Pa., assignors to Standard Oil Development Company, a corporation of Delaware
Application February 11, 1949, Serial No. 75,904
11 Claims. (Cl. 23—310)

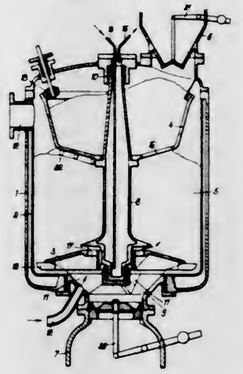


9. A process for contacting a comparatively heavy fluid with a comparatively light fluid incompletely miscible therewith which comprises flowing the comparatively light fluid upwardly and the comparatively heavy fluid downwardly through a plurality of vertically superposed stages, each of said stages having a mixing zone and a settling zone disposed on substantially the same stationary horizontal plane, confining said fluids in each mixing zone in a small unit volume against substantial movement in all directions except lateral and subjecting said confined fluids in each mixing zone to a vertically directed pounding action applied at horizontally spaced portions of the fluids to impart rapidly recurring disruptive shocks thereto and to form an intimate mixture of said fluids, passing the resulting mixture from each mixing zone laterally to the adjacent settling zone, effecting separation of said mixture into two supernatant phases, flowing the separated upper phase to the mixing zone in the next higher stage, flowing the separated lower phase to the mixing zone in the next lower stage, withdrawing treated light fluid from the uppermost settling zone and withdrawing treated heavy fluid from the lowermost settling zone.

2,667,408
PREVENTION OF RUST
Milton P. Kleinholz, East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
No Drawing. Application October 5, 1949, Serial No. 119,751
4 Claims. (Cl. 44—70)

1. A light petroleum distillate to which a rust inhibiting property has been imparted by the incorporation of approximately .5 to 50 pounds per 1,000 barrels of distillate of an oxidized microcrystalline wax having from 34 to 55 carbon atoms per molecule which consists essentially of carboxy acids having a saponification number in excess of 100 and not exceeding 260, having an acid number within the range of about 70 to 160 and having an iodine number less than about 20.

2,667,409
GAS PRODUCER
Otto Hubmann, Bad Homburg vor der Hoehe, Germany
Application October 19, 1950, Serial No. 191,041
Claims priority, application Germany October 24, 1949
6 Claims. (Cl. 48—63)



1. A gas producer for the gasification of solid fuel, which comprises a vertical, cylindrical shaft furnace having a rotatable center shaft, a combustion zone for such fuel defined in said furnace with said rotatable center shaft extending therethrough, a grate mounted for rotation with said shaft positioned at the lower end of the combustion zone, a fuel holding receptacle positioned within said furnace above said combustion zone with at least the bottom portion thereof connected to said shaft for rotation therewith,

the bottom of said receptacle defining at least one opening therethrough in spaced relationship to the axis of said rotatable center shaft for the discharge of fuel, and means for rotating said shaft.

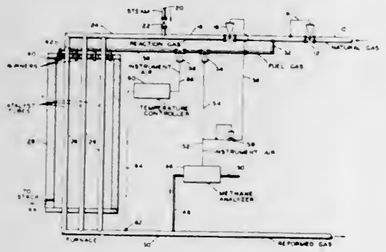
2,667,410

APPARATUS FOR REFORMING HYDROCARBONS

Weller R. Pierce, Dumas, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware

Application January 4, 1950, Serial No. 136,742

5 Claims. (Cl. 48—196)



1. Apparatus for controlling the operation of a system for reforming a hydrocarbon gas by reaction with steam to produce a reformed gas containing hydrogen and carbon monoxide, said system including a furnace containing a plurality of externally fired catalyst tubes, fuel supply means for introducing fuel to the furnace, a conduit for supplying steam to the catalyst tubes, a conduit for supplying hydrocarbon gas to be reformed to said catalyst tubes, and a conduit for withdrawing reformed gas from said catalyst tubes, said apparatus comprising at least one control means on said fuel supply means for controlling the quantity of fuel supplied to the furnace, a control valve on the conduit supplying hydrocarbon gas to be reformed to the catalyst tubes, a hydrocarbon gas measuring device for determining the quantity of unreacted hydrocarbon gas present in the aforesaid reformed gas conduit, a temperature measuring device for measuring a temperature within the system which is directly related to the reaction temperature, a controller adapted to control said fuel supply responsive to the measured hydrocarbon content of the reformed gas whereby the fuel supply is increased as the said hydrocarbon content increases, a controller responsive to the aforesaid measured temperature adapted to override the last mentioned fuel supply controller sufficient to avoid an increase in temperature above a predetermined maximum value by throttling the supply of fuel, and a supplemental controller operative to throttle the aforesaid valve on the conduit supplying hydrocarbon gas to the catalyst tubes responsive to the measured hydrocarbon content of the reformed gas whenever same tends to increase above a predetermined maximum value and the fuel supply controller which is responsive to the hydrocarbon gas content of the reformed gas is being overridden by the said temperature controller.

2,667,411

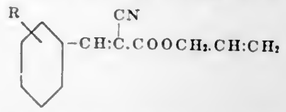
DERIVATIVES OF BENZYLIDENECYANOACETIC ACID

David T. Mowry and Arthur H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 22, 1951, Serial No. 217,063

16 Claims. (Cl. 71—2.6)

1. Compounds having the general formula



in which R is selected from the class consisting of hydrogen and alkyl radicals of from 1 to 4 carbon atoms.

2,667,412

HERBICIDAL COMPOSITION

David T. Mowry and Arthur H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 23, 1951, Serial No. 217,319

5 Claims. (Cl. 71—2.7)

1. The method of destroying undesirable plants which comprises treating said plants with a toxic quantity of a herbicidal composition containing allyl cyanoacetate as the active ingredient.

2,667,413

VAPOR-PHASE SMELTING PROCESS

James Fernando Jordan, Huntington Park, Calif.

No Drawing. Application January 15, 1951, Serial No. 206,115

4 Claims. (Cl. 75—84)

1. In the process wherein titanium is produced by reacting a chloride of titanium with a reducing agent selected from the group consisting of magnesium, potassium and sodium to form titanium and a chloride of said reducing agent, the method of separating said titanium from said reducing agent chloride, which comprises: melting at least one halide selected from the group consisting of calcium fluoride, calcium chloride and magnesium fluoride to form a molten pool of said halide, said halide having a boiling point that lies above the melting point of titanium and above the boiling point of said reducing agent chloride; heating said molten halide pool to a temperature that lies in the range between the melting point of titanium and the boiling point of said molten halide pool, said temperature being above the boiling point of said reducing agent chloride; mixing said chloride of titanium with said reducing agent within said molten halide pool so that reaction between said titanium chloride and said reducing agent within said molten halide pool yields molten particles of titanium dispersed within and collected by said molten halide pool, the reducing agent chloride formed in said reaction being separated from said collected titanium particles by withdrawing said reducing agent chloride in vapor phase from said molten halide pool; and floating said molten halide pool containing said titanium particles on a molten pool of titanium, said molten titanium pool being formed as said titanium particles settle through said molten halide pool to collect at the base of said molten halide pool, the temperature of said molten halide pool and said molten titanium pool being maintained within said range with the aid of heat released by said reaction.

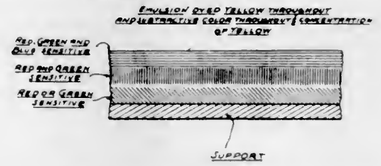
2,667,414

LIGHT-SENSITIVE COLOR PHOTOGRAPHIC FILM

Paul Raibourn, Southport, Conn.

Original application April 29, 1947, Serial No. 744,771, now Patent No. 2,628,902, dated February 17, 1953. Divided and this application June 29, 1948, Serial No. 35,972

3 Claims. (Cl. 95—2)



1. A photographic film comprising a base having applied thereto a single layer silver halide emulsion sensitive uniformly throughout its depth to panchromatic light, said silver halide emulsion layer being dyed to uniform concentration throughout with two subtractive primary coloring materials, one of which is yellow and the other of which is one of magenta and cyan, said other being present in one half the concentration of the yellow, said film being effective upon exposure of said emulsion to form therein three strata, each carrying a primary color separation, the uppermost stratum being characterized by its capacity to form red, green and blue latent images, the central stratum being characterized by its capacity to form red and green latent images and the lowermost stratum being characterized by its capacity to form a latent image of one of the colors red and green.

2,667,415

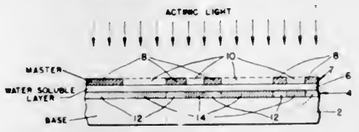
PROCESS FOR PRODUCING POSITIVE PHOTOLITHOGRAPHIC PRINTING FOILS

Wilhelm Neugebauer, Wiesbaden-Biebrich, and Jakob Barthenheier, Eddersheim am Main, Germany, assignors, by mesne assignments, to Azoplate Corporation, Summit, N. J., a corporation of New Jersey

Application January 13, 1949, Serial No. 70,803

Claims priority, application Germany October 15, 1948

9 Claims. (Cl. 95—5.4)



1. The positive working process for producing lithographic printing plates from light sensitive material having a hydrophilic surface which has been photo-sensitized with a diazo compound of high molecular weight which upon direct exposure to light decomposes into a greasy ink receptive substance, said process comprising the steps of applying an aqueous colloidal solution of water soluble organic colloid to said sensitized hydrophilic surface to cover said sensitized surface with a water soluble organic colloid layer, exposing said sensitized hydrophilic surface provided with said water soluble colloid layer to a light image, removing said water soluble colloid layer and completely reexposing said sensitized hydrophilic surface to light.

2,667,416

STABILIZATION OF FISH PRESS LIQUOR

Earl P. McFee, Gloucester, Mass., assignor to Monsanto Chemical Company, a corporation of Delaware

No Drawing. Application April 4, 1951, Serial No. 219,309

9 Claims. (Cl. 99—7)

1. Fish press liquor stabilized against substantial decomposition by means of a relatively small amount of sodium acid pyrophosphate.

2,667,417

PURIFICATION AND STABILIZATION OF FRUIT JUICES BY ION EXCHANGE TREATMENT

Georges Delmousée, Geza Victor Austerweil, Georges Lemoussu, and Jean Claude Poupinel, Paris, France

No Drawing. Application October 19, 1951, Serial No. 252,186

3 Claims. (Cl. 99—105)

1. A process for the purification, clarification and stabilization of fermentable fruit juices in a stage prior to the aging of said fruit juices, said fruit juices containing as impurities, precipitable potassium bitartrate, precipitable calcium ions, heavy metal ions, bisulfite salts and aliphatic carboxylic acids comprising passing said impure fruit juice through a synthetic cation exchanger selected from the class consisting of after-sulfonated polystyrene cross linked with up to 10% divinyl benzene, after-sulfonated polystyrene crossed linked with allyl esters of unsaturated dicarboxylic acids and polyvinyl sulfonates obtained by the oxidation of copolymers of alkoyl vinyl sulfides and sulfones, said fruit juice passed rapidly through a bed of said cation exchanger to substantially remove the heavy metal ions therefrom and to remove precipitable potassium bitartrate and precipitable calcium ions therefrom so as to provide a molar ratio of potassium to calcium ions of about 4 to 1 to produce a stabilized fruit juice having a pH of about 2, which pH is lower than that of the starting fruit juice, whereafter said treated fruit juice is passed rapidly through a bed of a synthetic resin anion exchanger selected from the class consisting of ternary alkenyl ammonium polystyrene, quaternary alkenyl ammonium polystyrene mixtures of ternary alkenyl ammonium polystyrene crossed linked with alkylaminopolystyrene and a mixture of quaternary alkenyl ammonium polystyrene cross linked with alkylaminopolystyrene to remove from said fruit juice the aliphatic carboxylic acid impurities and bisulfite impurities therefrom and to provide a pH of between about 3 and 4.

2,667,418

HARD BUTTER COMPOSITION

George Barsky, New York, N. Y., and George Zinzalian, Boonton, N. J., assignors to E. F. Drew & Co., Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application February 10, 1951, Serial No. 210,436

6 Claims. (Cl. 99—118)

1. Hard butter consisting essentially of the substantially neutral unhydrogenated mixed

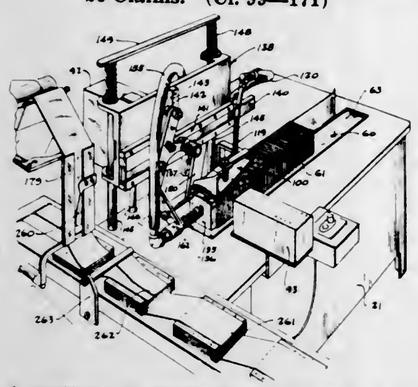
glyceride esters of a mixture of fatty acids having about the following composition:

	Per cent
Capric and caprylic	1–2.5
Lauric	44–57
Myristic	16–23
Palmitic	10–13
Stearic	2–4
Oleic and linoleic	7–24

2,667,419
SUBSTANTIALLY DEHYDRATED FOOD PRODUCTS
Chester M. Gooding, Staten Island, N. Y., Hans W. Vahlteich, Englewood, N. J., and Ralph H. Neal, deceased, late of North Bergen, N. J., by Ethel Neal, administratrix, North Bergen, N. J., assignors to The Best Foods, Inc., New York, N. Y., a corporation of New Jersey
No Drawing. Application October 21, 1949, Serial No. 122,854
The portion of the term of the patent subsequent to October 25, 1966, has been disclaimed
14 Claims. (Cl. 99—150)

1. A substantially dehydrated food product having incorporated therein 0.001 to 0.2% of a monoaliphatic citrate selected from the class consisting of mono-alkyl citrates and mono-alkylene citrates.

2,667,420
METHOD AND APPARATUS FOR HANDLING SLICED FOOD
Benedict E. Meulemans and Warren A. Nelson, Green Bay, Wis., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois
Application August 8, 1950, Serial No. 178,268
26 Claims. (Cl. 99—171)

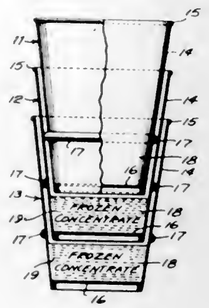


1. A method of producing a bundle of slabs of food with portions of divider material between the slabs from a block composed of a plurality of said slabs, said method including moving the end slab away from the remainder of the block by blowing a blast of fluid along the line of juncture therebetween, depositing the separated slab on its side, and laying a portion of said divider material over the other side of said slab.

2,667,421
PACKAGING COMMODITIES
Willis J. Parks, Richmond, Calif., assignor to Owens-Illinois Glass Company, a corporation of Ohio
No Drawing. Application January 30, 1951, Serial No. 208,674
10 Claims. (Cl. 99—171)

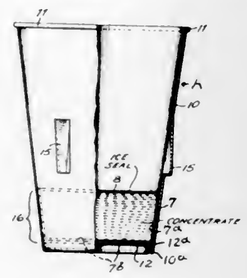
1. A package comprising an impervious container with dried fruit placed therein, and a cap hermetically sealed to the container, said sealed container containing propylene oxide at subatmospheric pressure.

2,667,422
PACKAGING AND DISPENSING FROZEN BEVERAGE FORMING CONCENTRATES
John H. Kauffman, Eustis, Fla.
Application July 9, 1952, Serial No. 297,862
13 Claims. (Cl. 99—171)



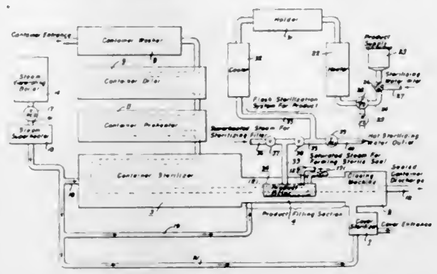
1. The method of packaging frozen beverage forming concentrates for storage and dispensing purposes comprising introducing a predetermined quantity of said concentrate in each space provided between a plurality of predeterminedly spaced nested disposable cups and detachably sealing said cups together in fluid tight relation by a temperature responsive seal remaining intact while said concentrate is frozen.

2,667,423
PACKAGING, STORING, AND VENDING FROZEN CONCENTRATES AND THE LIKE
Henry A. Simpson, Oviedo, Fla.
Application October 5, 1951, Serial No. 249,953
14 Claims. (Cl. 99—171)



1. A new article of manufacture for storing fruit juices adapted for preservation at subfreezing temperatures comprising a container having an interior chamber, an ice shell secured in said interior chamber and a quantity of fruit juice completely enclosed and sealed within said ice shell in the absence of air, said fruit juice being carried directly in said ice shell and maintained out of contact with the interior surfaces of said chamber by said ice shell.

2,667,424
APPARATUS AND METHOD FOR FILLING PRODUCTS IN CONTAINERS
William McK. Martin, San Mateo, Calif., assignor to James Dole Engineering Co., a corporation of Nevada
Application July 11, 1949, Serial No. 104,074
5 Claims. (Cl. 99—182)



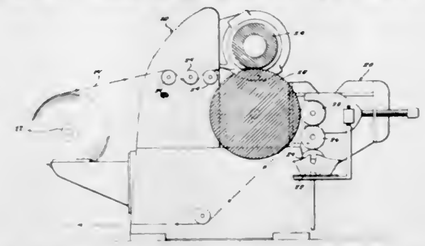
1. The method of continuously filling a pumpable product in containers of the type having outwardly extending flanges at their open mouths which comprises effecting continuous uninterrupted flow discharge of a bodily fixed stream of the product at a fixed zone, and at a predetermined fixed quantity per unit of time, moving a line of said containers toward said stream, prior to arrival of the containers at said stream overlapping the container flanges, and continuously moving the containers past said stream with their flanges thus overlapped and with a substantially uninterrupted motion at such speed relative to said stream as to cause the containers to be substantially uniformly filled in their travel past said stream.

2,667,425
SELF-EXTINGUISHING ASPHALT COMPOSITION
Lester A. Bierly, Chautauqua, N. Y., assignor to Presque Isle Laboratories and Manufacturing, Inc., Erie, Pa., a corporation of Pennsylvania
No Drawing. Application February 2, 1950, Serial No. 142,085
2 Claims. (Cl. 106—15)

1. A self extinguishing asphalt composition comprising a mixture of asphalt, chlorinated paraffin in the range 5–40%, and antimony oxide in the range of 5–40%, the combined weight of the chlorinated paraffin and antimony oxide being in the range of 25% to 100% of the asphalt, the chlorinated paraffin being at least 50% chlorinated, and the balance being substantially inorganic filler.

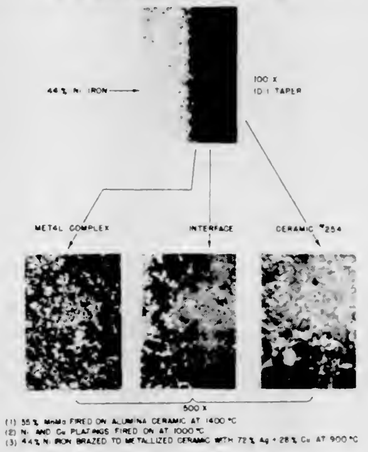
2,667,426
METHOD AND MEANS FOR COLORING EMBOSSED FABRIC
Thomas E. Davis, Rock Hill, S. C., assignor to Rock Hill Printing & Finishing Company, a corporation of Delaware
Application June 16, 1952, Serial No. 293,820
8 Claims. (Cl. 117—11)

1. The process which comprises first embossing a fabric web between a relieved embossing surface and a complementary backing surface that are cylindrical in form and are caused to rotate at equal surface speeds, and then subsequently and separately contacting portions of said embossed web with a cylindrical color applying surface while the web is still carried on said backing surface, while causing said color applying surface to rotate at an equal surface speed with



said backing surface, and while supplying color to said color applying surface.

2,667,427
METHOD OF METALIZING A CERAMIC MEMBER
Henry J. Nolte, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 27, 1951, Serial No. 238,871
8 Claims. (Cl. 117—22)

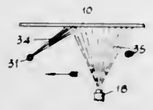


1. The method of metalizing a surface of a ceramic member which comprises applying to said surface a mixture of powders consisting essentially of elemental manganese and a metal selected from the group consisting of molybdenum, tungsten and iron and mixtures thereof, the manganese comprising from 10% to 50% by weight of said mixture of metal powders, heating the member and applied mixture of powders in an atmosphere non-oxidizing to said metal to a temperature of 1200° to 1400° C. to cause the manganese to form with the ceramic and the metal of said group a tightly adhering metal coating, the lower percentages of manganese being used with the more active ceramics and higher temperatures.

2,667,428
METHOD OF PRODUCING TRANSPARENT ELECTRICALLY CONDUCTING FILMS
Thomas K. Young, Toledo, and James W. McAuley, Perrysburg, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application July 6, 1949, Serial No. 103,192
2 Claims. (Cl. 117—54)

1. In a method of producing a transparent electrically conducting film by spraying a vitre-

ous surface that has been heated to substantially its point of softening with a solution of a tin chloride during relative movement between said spray and said surface, the step of directing a



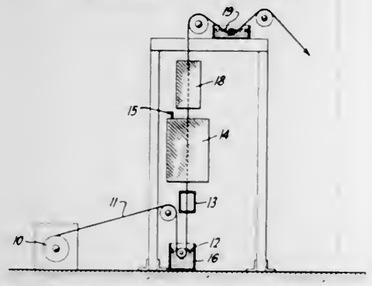
blast of air from a position in advance of the spray at an acute angle relative to the plane of said surface against the leading edge of said spray along its line of contact with said surface.

2,667,429

COATING MIXTURE WITH ADDITION AGENT AND METHOD OF COATING THEREWITH

John B. Diffenderfer, North Caldwell, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 11, 1949, Serial No. 75,876
7 Claims. (Cl. 117—65)



6. Method of mechanically coating an iron base with an alloy of copper and nickel; comprising continuously passing successive portions of a strip of said base through a slurry containing the oxides of said copper and nickel, a suspending medium consisting of methanol and ethylene glycol mono ethyl ether, aluminum oxide contaminants, and lithium phosphate present in sufficient amount to dissolve all of said aluminum oxide contaminants; whereby the strip is coated with the materials of said slurry; feeding the coated strip upwardly from said slurry; heating said coated strip at a temperature of about 200° C. to drive off said suspending medium, and further heating said coated strip at about 1350° C. in a reducing atmosphere to first cause said lithium phosphate to take into solution said aluminum oxide contaminants in said slurry and then to reduce said oxides of copper and nickel to metallic form and to fuse the resultant metal; whereby said further heating is effective to fuse said metal at a lower temperature than the normal fusion temperature of said metal with said aluminum oxide in solid form, for preserving said strip from fusion and rupture during said upward feed of said strip.

2,667,430

SYNTHETIC RESIN IMPREGNATED GLASS FABRIC AND METHOD OF MAKING SAME

James R. Wells, Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application March 4, 1953, Serial No. 340,397
6 Claims. (Cl. 117—76)

1. As a new article of manufacture, a cured polyester resin-impregnated glass fabric comprising glass fabric the fibers of which are coated with a cured mixture of the material deposited upon drying of a solution of a hydrocarbon-soluble condensation product of urea, formaldehyde and butyl alcohol in a mixture of an inert volatile organic solvent and monomeric styrene, the amount of said cured mixture being such that the interstices of the fabric are not filled, this structure being coated and having its interstices substantially filled with cured polyester resin comprising an unsaturated linear polyester and a copolymerizable ethylenic monomer which is a solvent for said linear polyester.

2,667,431

METHOD OF METALIZING CERAMICS

Don G. Burnside, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

No Drawing. Application October 30, 1950, Serial No. 193,040
5 Claims. (Cl. 117—120)

1. A method of making a smooth, even, adherent metal coated ceramic article comprising bringing a solid body of an alloy, consisting essentially of 70 to 80% by weight copper and 30 to 20% by weight of a metal from the class consisting of titanium and zirconium, into physical contact with a surface of said article and effecting relative movement between said surface and said body, thereby causing a film of the alloy to be deposited adherently on said surface.

2,667,432

METALIZED CERAMIC

Henry J. Nolte, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Original application January 14, 1947, Serial No. 722,029. Divided and this application January 21, 1949, Serial No. 71,893
2 Claims. (Cl. 117—123)

1. A metallized ceramic comprising a ceramic member having a tightly adhering metal surface thereon comprising manganese and a metal selected from the group consisting of molybdenum, tungsten, iron, nickel, and mixtures thereof, said manganese constituting a substantial percentage by weight of said metal surface and a portion of the manganese being combined with said ceramic to form a tightly adhering coating.

2,667,433

PROCESS FOR THE DIFFUSION-SUBSTITUTION COATING OF METAL ARTICLES FROM A TIN SALT MELT

Erich Gebhardt, Ludwigsburg, and Gerhard Schrag, Goppingen, Germany, assignors to Meinecke Metallurgie G. m. b. H., Hannover, Germany

Application June 25, 1949, Serial No. 101,474
Claims priority, application Switzerland April 4, 1949
7 Claims. (Cl. 117—130)

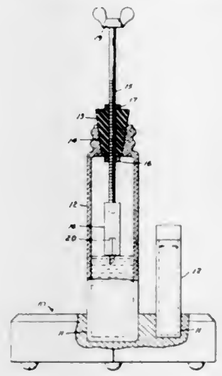
1. A method for tin coating iron articles comprising immersing the said articles directly in a molten bath consisting of at least 60 per cent $KCl.SnCl_2$, the rest of the bath being composed of a substance selected from the group consisting of alkali metal, earth alkali metal and zinc halides, and maintaining said bath at a temperature of between 300–500° C.

2,667,434

PROCESS FOR RENOVATING OR RESHARPENING RECORDING STYLI

Charles F. Strandberg, Greensboro, N. C.

Application January 18, 1950, Serial No. 139,239
4 Claims. (Cl. 134—42)



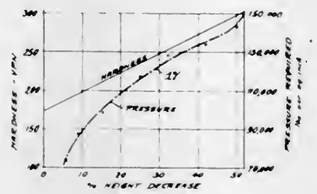
1. A method of resharpening the sapphire tips of recording styli which have become dull by reason of the adherence to said tips of portions of aluminum gathered from contact with the base portions of recording disks or the like, which comprises chemically removing the adhering aluminum particles from the tips by application to the tip of a chemical which is reactive with the aluminum portions but is non-reactive with sapphire.

2,667,435

LOW TEMPERATURE FABRICATION OF MOLYBDENUM AND ALLOYS THEREOF

John W. Marden, East Orange, and Stuart V. Cuthbert, North Caldwell, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 21, 1951, Serial No. 247,652
9 Claims. (Cl. 148—11.5)



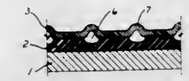
1. The method of manufacturing ductile metal from a pressed and sintered article of powdered particles of the group consisting of molybdenum and alloys thereof with small proportions of metal of the group consisting of cobalt, nickel, iron and tungsten, comprising compressing the article at room temperature at a rate of speed of not more than ½" per minute until deformed not less than about one-third, heating to a stress-relieving temperature between about 1100° C. and 1220° C., and finally allowing said article to cool from that temperature to one not higher than 200° C. in a length of time not shorter than 24 hours.

2,667,436

PRESSURE SENSITIVE ADHESIVE COATED SHEET MATERIAL

George J. Goepfert and Howard M. Canfield, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware

Application September 21, 1950, Serial No. 186,052
9 Claims. (Cl. 154—53.5)



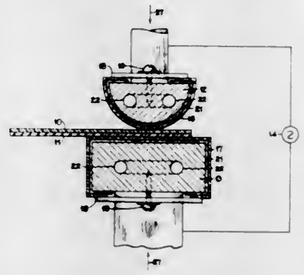
1. As a new article of manufacture, sheet material having a film of pressure sensitive adhesive adhesively attached to at least one side, and a protective sheet consisting essentially of pigmented polyethylene embossed to form parallelograms which lie substantially in the same plane and which are separated from but attached to each other by raised ribs adhesively attached to the outer surface of the pressure sensitive adhesive film with the ribs on the outer side, the pressure sensitive adhesive film being in large part in the form of parallelograms which are separated by channels in which the pressure sensitive adhesive coating is thinner than that of the parallelograms and are attached to the parallelograms on the protective sheet, the channels in the pressure sensitive adhesive and the ribs on the protective sheet forming channels which communicate to the edge of the sheet through which gases which might be entrapped between the pressure sensitive adhesive film and the protective sheet can escape whereby the protective sheet is substantially free from blisters and bubbles.

2,667,437

METHOD OF SEALING POLYETHYLENE FILMS

Charles M. Zoubek, Oak Lawn, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois

Application October 11, 1949, Serial No. 120,784
1 Claim. (Cl. 154—126.5)



A method of joining two pieces of a thermoplastic material of a type having a low dielectric loss factor including the steps of placing said portions together, placing a buffer material to either side of the portions and in contact therewith, pressing an area of the buffer material and said portions against each other, and impressing a high frequency electric field across said area, restricting the temperature rise to the material and the buffer, removing said high frequency electric field after said material has softened, and subsequently discontinuing said pressing after the material has become self-sustaining.

2,667,438

SCREWWORM FLY CONTROL

Leo R. Gardner, Berkeley, Calif., assignor to California Spray-Chemical Corporation, Richmond, Calif., a corporation of Delaware

No Drawing. Application November 10, 1950, Serial No. 195,150

3 Claims. (Cl. 167—53.2)

1. An insecticidal composition suitable for the control of the American screwworm fly comprising about 5–25% by weight of p,p'-dichlorodiphenyltrichloroethane, about 2–10% by weight of hexachlorocyclohexane containing at least 50% of its gamma isomer, about 5–15% by weight of a water-soluble alkylphenoxy polyethoxyethanol emulsifying agent, and about 40–70% of a predominantly alkyl aromatic hydrocarbon solvent.

2,667,439

THEOPHYLLINE COMPOSITION CONTAINING ANTINAUSEANT FACTORS

Bernard Adolph Marty, Decatur, Ill., assignor to Irwin, Neisler and Company, Decatur, Ill., a corporation of Illinois

No Drawing. Application July 23, 1952, Serial No. 300,500

6 Claims. (Cl. 167—55)

1. A therapeutic composition comprising: a compound selected from the group consisting of theophylline and theophylline salts; aluminum hydroxide; and ethyl para-aminobenzoate.

2,667,440

STABILIZED AQUEOUS SOLUTIONS OF PARA-AMINOSALICYLIC ACID SALTS

Roger G. Douris, Paris, and Jacques M. Bory, Montmorency, France

No Drawing. Application December 8, 1950, Serial No. 199,926

Claims priority, application France March 25, 1950

2 Claims. (Cl. 167—58)

1. A heat sterilizable aqueous solution for intravenous injection, which contains 0.5 to 20 per cent by weight of sodium salt of paraaminosalicylic acid together with 0.01 to 1 per cent by weight of sodium formaldehyde-sulfoxylate.

2,667,441

METHOD FOR THE RECOVERY OF NEOMYCIN

Urs F. Nager, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application August 2, 1950, Serial No. 177,337

4 Claims. (Cl. 167—65)

1. A process for recovering neomycin from aqueous solutions thereof which comprises adsorbing the neomycin on a carboxylic acid, cation-type, ion-exchange resin having a pH within the range of from about 4 to 8, eluting the neomycin from the resin with an aqueous solution of a nitrogen base having a dissociation constant ranging from about 5.6×10^{-4} to 3.83×10^{-10} and selected from a class consisting of organic amines and ammonia, and recovering the neomycin from the eluate.

2,667,442

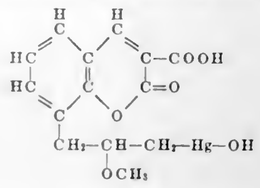
MERCURIAL DIURETIC

Albert Schlesinger, Nathan Weiner, and Samuel M. Gordon, New York, N. Y., assignors to Endo Products, Inc., Richmond Hill, N. Y., a corporation of New York

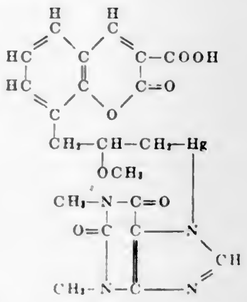
No Drawing. Application November 6, 1948, Serial No. 58,784

7 Claims. (Cl. 167—71)

1. Compounds of the group consisting of (*a*) 8(2'methoxy - 3'-hydroxy mercuri-propyl)-coumarin-3-carboxylic acid having the formula:



(*b*) the theophylline addition complex of said acid having the formula:



and (*c*) the alkali metal salts of said addition complex.

2,667,443

DENTAL FLOSS

William Howard Ashton, Philadelphia, Pa., assignor to Johnson & Johnson, a corporation of New Jersey

No Drawing. Application May 14, 1949, Serial No. 93,413

4 Claims. (Cl. 167—93)

1. Dental floss impregnated with a dental medicament in a water-soluble solid wax.

2,667,444

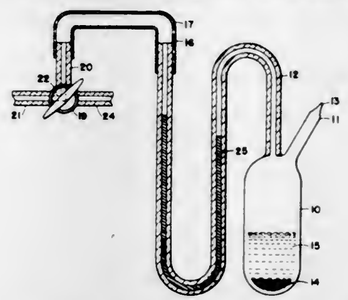
PETROLEUM PROSPECTING METHOD

David M. Updegraff and Hubert H. Chase, Dallas, Tex., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application April 8, 1949, Serial No. 86,372

14 Claims. (Cl. 195—103.5)

1. A microbiological method of prospecting for a subterranean petroleum deposit comprising collecting earth samples at spaced locations over a prospect area, admixing a known portion of each of said samples with aqueous inorganic salt medium for bacteria, contacting the resulting mixture with a nutrient comprising a petroleum hydrocarbon, and determining the time required for consumption of said nutrient by bacteria in each of said earth samples to begin as a measure of the number of bacteria in each of said samples whereby the number of bacteria per unit amount of sample may be correlated with sample locations to detect anomalous variations in number of bacteria indicative of the proximity of a subterranean petroleum deposit.



2,667,445

PRODUCTION OF RIBOFLAVIN BY ASHBYA GOSSYPII WITH COBALT AS ADDITIVE

Richard J. Hickey, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application August 5, 1949, Serial No. 108,861

3 Claims. (Cl. 195—114)

1. In a process for the production of riboflavin by the propagation of the organism *Ashbya gossypii* in nutrient media, the improvement which comprises propagating said organism under aerobic conditions in a nutrient medium containing from 1 microgram to 20 micrograms of cobalt per milliliter of medium in addition to any cobalt normally present in the constituents of the said medium.

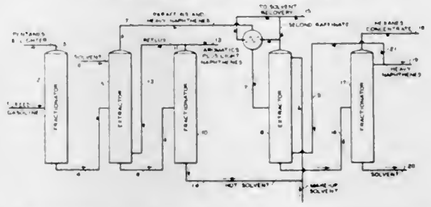
2,667,446

MANUFACTURE OF HIGH OCTANE GASOLINE

Robert A. Findlay, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application September 25, 1950, Serial No. 186,523

3 Claims. (Cl. 196—14.26)



1. In the manufacture of a high octane gasoline from a gasoline selected from the group consisting of straight-run and natural gasoline the steps which comprise in combination, and in the order as follows, (*a*) depentanizing one of said gasolines boiling substantially throughout the approximate range of 90°–400° F. (gasoline boiling range), said gasoline containing substantial proportions of light and heavy naphthenes, light and heavy paraffins, aromatics and including hexanes; (*b*) subjecting said depentanized gasoline to a solvent extraction with a solvent and under conditions causing formation of an extract phase containing said light naphthenes and substantially all of said aromatics, and a raffinate phase containing said heavy naphthenes and said light and heavy paraffins; (*c*) recovering separately from said extract phase an aromatics and light naphthenes fraction on the one hand and solvent on the other; (*d*) subjecting said raffinate (obtained in step (*b*) hereof) to solvent extraction with said recovered solvent and under conditions causing formation of a second extract phase containing heavy naphthenes and light paraffins and a second raffinate phase; and (*e*) recovering separately from said second extract phase a light paraffin concentrate containing hexanes, a heavy naphthenes concentrate and solvent.

2,667,447

KETONE DEWAXING PROCESS

Stephen F. Perry, Westfield, George W. Engisch, Linden, and Richard A. Marriner, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application July 3, 1950, Serial No. 172,006

8 Claims. (Cl. 196—18)

1. A process for dewaxing a waxy petroleum distillate, a substantial portion of which boils in the range of 850° F. to 950° F. at atmospheric pressure, and characterized by inclusion of both paraffin and microcrystalline type waxes, comprising the steps of adding to said distillate a solvent comprising principally a ketone having from 3 to 6 carbon atoms, and heating said mixture of solvent and distillate to a temperature sufficient to dissolve wax present in the distillate, and thereafter cooling said mixture of solvent and distillate at a rate of 2° to 5° F. per minute by heat exchange through chilling surfaces, while maintaining sufficient agitation during chilling and wax crystallization to maintain a turbulent, uniformly mixed slurry of crystallized wax, solvent, and distillate characterized by the absence of crystallized **wax** on the said chilling surfaces.

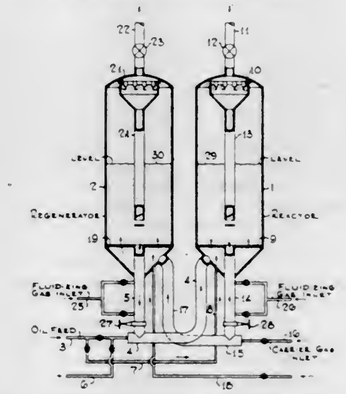
2,667,448

HANDLING FINELY DIVIDED SOLIDS

John C. Munday, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Original application October 28, 1942, Serial No. 463,653. Divided and this application March 30, 1950, Serial No. 152,886

4 Claims. (Cl. 196—52)



1. The method of transferring a finely divided fluidized solid continuously from one of two contacting chambers containing separate gaseous atmospheres to the other and back again in a closed cycle, which comprises withdrawing a dense col-

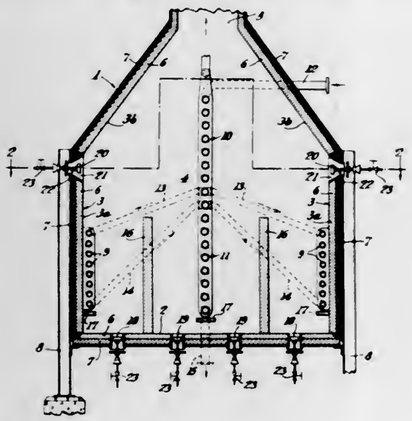
umn of fluidized solid downward from the bottom portion of each of said contacting zones through an unrestricted open standpipe in which the fluistatic pressure of the column of solid creates at the bottom of each of said standpipes a high pressure zone wherein the pressure is greater than the pressure at the bottom of either of said contacting chambers, passing the solid from each of said high pressure zones upward through an external transfer line communicating therewith and leading to the bottom portion of the other contacting chamber, and controlling the concentration of solids in said transfer lines to regulate the flow of solids between said chambers while maintaining the total fluistatic pressure head on the solid at the bottom of each standpipe greater than the total fluistatic pressure head on the solid in the transfer line communicating therewith, said high pressure zones below the level of both contacting zones providing a positive means of preventing the inadvertent back-mixing of the atmosphere in either of said contacting zones into the other.

2,667,449

HEATING OF HYDROCARBON FLUIDS

Valentine Mekler, Jackson Heights, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

Application October 1, 1949, Serial No. 119,076
11 Claims. (Cl. 196—73)



1. A heater for hydrocarbon fluid, comprising a furnace chamber, a pair of banks of preheating tubes within said chamber and adjacent opposite walls thereof, a bank of advanced heating tubes extending between said preheating banks in a plane intermediate the latter, burners disposed to conduct combustion within regions between said bank of advanced heating tubes and said preheating banks and in direct exposure to the respective banks to heat all of said banks predominantly by radiant heat, a bank of preliminary heating tubes within the furnace chamber and in said intermediate plane and beyond said preheating tubes, burners disposed to conduct combustion within regions at opposite sides of said preliminary heating bank and in direct exposure thereto for radiant heating of same, each of said four banks having an inlet and an outlet for the fluid, conduits connecting the outlet of said preliminary heating bank to the inlets of said preheating banks to pass the fluid thereto, and conduits connecting the outlets of the preheating banks to the inlet of said advanced heating bank therebetween to pass the fluid thereto.

2,667,450

SEPARATION OF ALDEHYDES FROM ALIPHATIC HYDROCARBONS BY AZEOTROPIC DISTILLATION WITH PERFLUOROCOMPOUNDS

Martin R. Cines, Knoxville, Tenn., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application August 14, 1951, Serial No. 241,899
3 Claims. (Cl. 202—42)

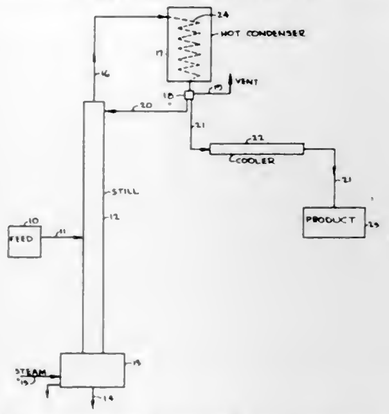
1. The separation of difficultly separable liquid mixtures of aliphatic aldehydes from aliphatic hydrocarbons, by using an entrainer selected from the group consisting of perfluoro-n-heptane and perfluoro-methylcyclohexane, perfluoro-di-n-butyl ether, perfluoro-tri-n-propylamine and perfluoro-tri-n-butylamine and subjecting said mixtures to distillation.

2,667,451

PROCESS FOR REMOVING SMALL QUANTITIES OF DIMETHYLAMINE FROM DIMETHYLACETAMIDE

Robert J. Larson, Springfield, Mass., assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

Application August 25, 1951, Serial No. 243,683
3 Claims. (Cl. 202—69)



1. A continuous process for removing dimethylamine from dimethylacetamide containing between 0.02 and 0.05% dimethylamine which comprises, fractionally distilling said dimethylacetamide, condensing the vapors produced at a temperature above 90° C. and below the boiling point of the dimethylacetamide containing the dimethylamine, separating the uncondensed dimethylamine from the condensate at said condensing temperature, continuously returning a portion of said condensate to the fractionating step, and further cooling the remainder of said condensate to room temperature while out of contact with said dimethylamine, said cooled condensate comprising dimethylacetamide containing not more than about 0.001% by weight of dimethylamine.

2,667,452

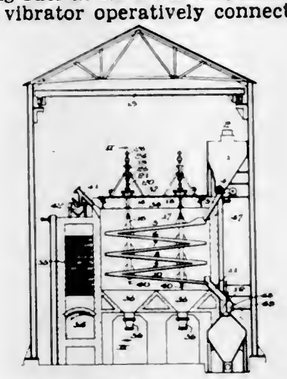
VIBRATING RETORT

Daniel Petit, Paris, France, assignor to Societe de Technique Industriele, Paris, France

Application December 30, 1947, Serial No. 794,735
5 Claims. (Cl. 202—119)

1. A fuel devolatilizing apparatus comprising an enclosed refractory chamber; a fuel inlet means

in the upper portion of said chamber; a fuel outlet means in the lower portion of said chamber; a fuel conveying and devolatilizing chute extending between said inlet and outlet means and sloping in a downward circuitous path, receiving fuel at its upper end from said inlet means and discharging fuel at its lower end into said outlet means; a vibrator operatively connected to said



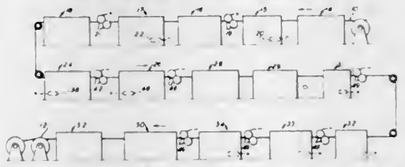
chute for transmitting vibrations to both the chute and the fuel in the chute, said vibrator imparting a frequency which causes the fuel to travel down the chute as a suspension just above said chute; distillate take-off means for removing the distillate from the fuel in said chute and from said chamber, and heating means for said chamber and said chute.

2,667,453

METHOD OF ELECTROPLATING COPPER ON METAL ARTICLES

Guy E. Murray, Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application June 3, 1950, Serial No. 165,985
11 Claims. (Cl. 204—28)



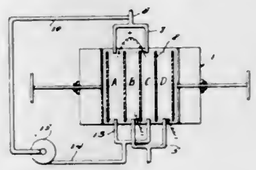
1. The method of electroplating copper on steel wires, which comprises continuously advancing a steel wire as a cathode seriatim through an alkaline cyanide flash coating bath containing copper dissolved therein at a concentration within the range of from about 1.5 to about 3.0 ounces per gallon, a second alkaline cyanide bath containing copper dissolved therein at a concentration within the range of from about 4.5 to about 7.0 ounces per gallon, and an acid plating bath containing a still higher concentration of copper dissolved therein, maintaining in the cyanide flash bath a cathode current density within the range of from about 20 to about 75 amperes per square foot for a period of time sufficient to deposit a very thin and very fine-grained flash coating of copper which sets a size pattern that causes subsequent deposits on the wire to be similarly fine-grained, maintaining in the second cyanide bath a cathode current density substantially higher than the current density in the flash coating bath to deposit a fine-grained copper coating substantially thicker than the flash coating of copper, and maintaining in the acid plating bath a still higher cathode current density to form a thick copper deposit which increases materially the electrical conductivity of the resulting composite wire.

2,667,454

ELECTROLYTIC METHODS AND APPARATUS FOR PRODUCTION OF METAL HYDROXIDES

Paul S. Roller, Hyattsville, Md.

Application March 13, 1948, Serial No. 14,744
17 Claims. (Cl. 204—96)



13. The method of producing metal hydroxide in suspension in an electrolyte which comprises passing an electric current across a battery of electrodes of a metal capable of generating the corresponding metal hydroxide, simultaneously passing the electrolye over the electrodes to generate metal hydroxide therein, passing the electrolyte containing the freshly generated metal hydroxide from said battery of electrodes, and upon passage of the said electrolyte containing freshly generated metal hydroxide from said battery of electrodes, without separation of the metal hydroxide content thereof, recirculating electrolyte containing said initially produced freshly generated, unseparated, suspended and non-settled metal hydroxide back through the battery of electrodes, while current is being passed through said electrodes, thereby producing a relatively increased yield of dispersed metal hydroxide in suspension.

2,667,455

METHOD FOR ELECTROLYTIC PRODUCTION OF IRON FROM IRON SULFATE SOLUTIONS

Sigurd Arthur Aannerud and Eigil Mostad, Lokken Verk, Norway, assignors, by mesne assignments, to Pyror Limited, Pembroke, Bermuda, a corporation of Bermuda

No Drawing. Application May 12, 1950, Serial No. 161,746
Claims priority, application Norway May 27, 1949
2 Claims. (Cl. 204—112)

1. The process of recovering iron from aqueous solutions of iron sulphate which comprises the steps of (*a*) establishing an electrolytic cell containing a vinyl chloride-acrylonitrile resinous fabric diaphragm in which said iron sulphate solution is made the electrolyte, said resinous fabric diaphragm being stabilized at about 150° C. and having a shrinkage of about 12 to 16%, (*b*) subjecting said electrolyte to electrolysis across said diaphragm, and (*c*) recovering the iron released in said electrolytic cell.

2,667,456

CHEMICAL PROCESS FOR RETAINING CUTTING EDGES

Clarence Frederick Young, Great Barrington, Mass.

No Drawing. Application June 24, 1950, Serial No. 170,263
6 Claims. (Cl. 204—140)

1. Process for retaining the cutting edge of a steel blade in contact with brass metal consisting of treating said steel blade for a plurality of hours in contact with an aqueous solution consisting of a soluble dichromate.

2,667,457

METHOD FOR PRODUCING GELS

Richard G. McChrystal, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

No Drawing. Application June 30, 1950, Serial No. 171,554

5 Claims. (Cl. 252—8.55)

1. A gel which is readily destructible by acid but which is relatively insensitive to substantial changes in initial viscosity at temperatures ranging from about 100° to about 210° F., said viscosity ranging from about 30 to about 5000 centipoises, said gel having been prepared by adding to a base liquid, containing from about 4 to about 10 weight per cent of an aliphatic acid having from 16 to 20 carbon atoms, a sufficient quantity of an alkali metal base in the form of an aqueous solution containing from about 25 to about 45 weight per cent of said alkali metal base, vigorously agitating the aqueous mixture of alkali metal base and acid at temperatures of from about 50° to about 160° F. until neutralization is complete, whereby a soap or bodying agent is formed in said base liquid in a concentration up to about 10 weight per cent, and retaining in the gel thus prepared all the water added thereto by the introduction of said aqueous solution of alkali metal base.

2,667,458

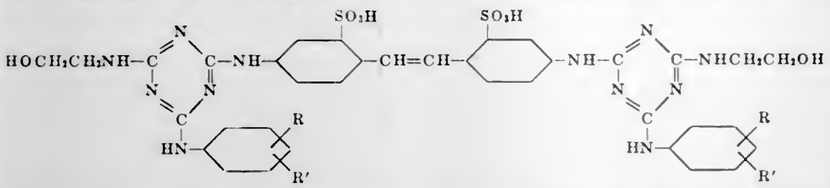
TEXTILE TREATING MATERIALS

Dennis Arthur William Adams and Robert Hugh Wilson, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application October 11, 1949, Serial No. 120,824

14 Claims. (Cl. 252—117)

1. New whitening agents selected from the group consisting of the free acids and salts of the sulphonic acids of the general formula:



wherein R is a radical from the group consisting of hydrogen and methyl; and R′ is a radical from the group consisting of hydrogen, methyl, hydroxyl, methoxy, acetylamino, and benzoylamino.

5. A textile washing composition comprising one part of the sodium salt of a whitening agent as claimed in claim 1 and about 500 to 3000 parts of a detergent selected from the group consisting of stearate soaps, cottonseed oil soaps and rosin soaps.

2,667,459

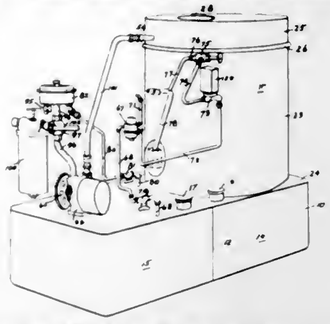
MECHANICAL FOG GENERATOR

William J. Besler, Piedmont, Calif.

Application November 13, 1947, Serial No. 785,635

4 Claims. (Cl. 252—359)

1. A device for producing an artificial aerosol comprising in combination a vapor generator including a fluid circuit therein arranged for counterflow with respect to heat from the burner, and a burner for a vaporizing fuel, auxiliaries including a constant speed engine for simultaneously driving several units comprising a pump for supplying the vaporizing fuel to the engine and the burner, a blower for supplying combustion air to the generator, and a pump for supplying operating fluid to said fluid circuit, a water regulating valve communicating with the suction side of said pump and operable to supply water thereto in response to the negative pressure thereof to maintain delivery of a constant ratio



of operating fluid and water, and restricted orifices for releasing the vapor and entrained particles of operating fluid at the outlet end of the fluid circuit on the outside of the generator to produce an artificial aerosol.

2,667,460

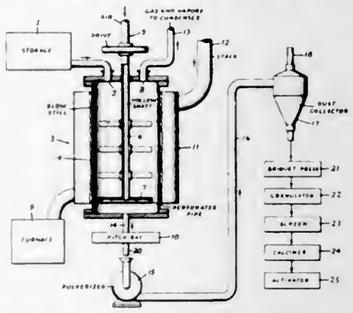
MANUFACTURE OF ACTIVATED CARBON

Joseph W. Donegan, New Brunswick, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

Application February 28, 1951, Serial No. 213,164

8 Claims. (Cl. 252—421)

5. A process for the production of activatable char from high boiling hydrocarbon material derived from pyrolytic decomposition products selected from the group consisting of coal tar, water-gas tar and oil-gas tar which comprises subjecting said pyrolytic decomposition products to distillation to remove therefrom substantially all the oils boiling below 670° F., passing air in intimate contact with the residual hydrocarbon material maintained at a temperature between 650 and 850° F. at a rate of 20 to 50 cubic feet



per minute per ton of residual hydrocarbon material for a sufficient length of time to convert said residual hydrocarbon material into a product having a benzol-insoluble content of 65 to 85% by weight, pulverizing the air-blown hydrocarbon material to below about 200 mesh size, calcining the pulverized hydrocarbon material in the presence of oxygen-containing gas at increasing temperatures from below about 400° F. to not in excess of 850° F. while maintaining the temperatures sufficiently low during such calcination so that the hydrocarbon material remains in an unfused condition, continuing the calcination until an infusible activatable char is obtained, and activating the char at a temperature from 1450° to 2200° F.

2,667,461

METHOD OF MAKING PLATINUM-CONTAINING CATALYSTS

Walter R. F. Guyer, Roselle, John P. Thorn, Elizabeth, and Erving Arundale, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 21, 1950, Serial No. 202,130

6 Claims. (Cl. 252—442)

1. Process of manufacturing platinum-containing reforming catalysts which comprises mixing a crystalline "activated alumina" with an aqueous HF solution to form a paste using sufficient solution to be the equivalent of 0.25% to 3.0% of HF on alumina by weight, mixing the paste and then permitting the mixture to stand at room temperature to permit reaction between the alumina and the HF, drying the paste and then mixing it with a solution of a platinum compound to form a paste said amount of solution being sufficient to provide about 0.1 to 2.0% by weight of platinum on the alumina, then treating the paste with H_2S for an extended period of time to uniformly deposit the platinum on the alumina base, permitting the sulfided mixture to stand at room temperature for an extended period of time sufficient to allow the desired reaction, then drying the sulfided mixture and after drying, calcining the mixture at an elevated temperature and then treating the calcined mixture with hydrogen to reduce the platinum to the metallic state.

2,667,462

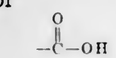
ADHESIVE FROM MONOETHYLENICALLY UNSATURATED DICARBOXYLIC ACID SALT POLYMER

Myron F. Wildish, Terre Haute, Ind., and John Edward Hefferline, Issaquah, and Hugh F. Rippey, Auburn, Wash.; said Wildish assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

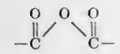
No Drawing. Application October 24, 1950, Serial No. 191,921

19 Claims. (Cl. 260—17.4)

1. An adhesive composition comprising a synthetic heteropolymer, polymerized from a mixture consisting of (A) monomers of polymerizable monovinyl compounds, wherein the monovinyl group contains the sole polymerizable unsaturated group of the molecule, and the monomer is free from other reactive groups, and (B) 4-to-6 carbon atom monoethylenic unsaturated dicarboxylic acids, selected from the group consisting of maleic acid, fumaric acid, citraconic acid, mesaconic acid and itaconic acid, anhydrides, and partial alkyl esters thereof, containing a substantial number of reactive radicals from the group consisting of



and



wherein the heteropolymer contains substantially equimolecular amounts of the monomers (A) and (B) reacted with the sum of about 0.8 to about 2.25 mols of a solubilizer from the group consisting of alkali metal hydroxides, ammonium hydroxide and monoamines of greater dissociation constant than 10^{-6}, and from about 0.05 to about 0.6 mol of a polyvalent metal cation-providing material selected from the group of nontoxic cations consisting of calcium, magnesium, aluminum, and iron, all per mol of heteropolymer unit, said adhesive composition being characterized by water-dispersibility.

2,667,463

INTERPOLYMER OF CYCLO-DIOLEFINE AND AN UNSATURATED ESTER

Robert H. Jakob, San Francisco, and Roy W. H. Tess and Theodore F. Bradley, Orinda, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application November 6, 1951, Serial No. 255,138

9 Claims. (Cl. 260—23.7)

1. An interpolymer of a conjugated cyclo-diolefine containing 5 to 6 carbon atoms in the ring, and an olefinically unsaturated fatty acid polyester of an esterifiable glyceryl polyether of a dihydric phenol having terminal glyceryl groups and having alternating glyceryl radicals and the hydrocarbon radicals of the phenol united in a chain by ether oxygen atoms between said radicals, which acid contains 12 to 22 carbon atoms and has an iodine value of 110 to 400, and which polyester contains at least three acyloxy groups of the fatty acid joined to the glyceryl groups of the polyether, said interpolymer containing about 5% to 60% by weight of polymerized cyclo-diolefine.

2,667,464

INSULATION FOR ELECTRICAL CONDUCTORS

Milton S. Greenhalgh, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York

No Drawing. Application October 30, 1951, Serial No. 253,979

5 Claims. (Cl. 260—28.5)

4. An electrical conductor having an insulating sheath surrounding and adhering to said conductor comprising a heat-resistant insulating composition comprising, by weight, 45 to 65% of a vinyl halide resin selected from the class consisting of polyvinyl chloride and copolymers of vinyl chloride and vinyl acetate, about 18 to 22% octyl decyl phthalate, about 8 to 12% chlorinated paraffin wax, up to about 20% of an inert filler, and a stabilizer for the aforesaid vinyl halide resin.

2,667,465

MOLDING COMPOSITION

Robert J. Nebesar, Bristol, Tenn., assignor to Universal Moulded Products Corporation, Bristol, Va., a corporation of Delaware

No Drawing. Application July 12, 1951, Serial No. 236,455

6 Claims. (Cl. 260—40)

1. A molding composition which comprises a reaction product of an unsaturated polybasic acid and a polyhydric alcohol; said reaction product having incorporated therewith a member selected from the group consisting of vinyl acetate, vinyl chloride and amyl acrylate; said reaction product and said members together being from 37 to 62% by weight of the composition and being evenly distributed throughout

the composition; asbestos fibers of a length not exceeding one-eighth of an inch; and distributed in said mixture from 35 to 60% by weight of glass fibers of a length of from about one-half inch to about two inches, the asbestos fibers being in a proportion not less than 3% and permissibly as high as but not over 20% by weight, and sufficient to support the resin throughout and thereby eliminate weak spots subject to cracking or crazing in loci of the molded product that are unsupported by the glass fibers in random distribution.

2,667,466

WATER SOLUBLE PHENOL - FORMALDEHYDE-BORAX CONDENSATION PRODUCT

Daniel E. Nagy, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Original application November 14, 1949, Serial No. 127,265. Divided and this application April 14, 1952, Serial No. 282,280

8 Claims. (Cl. 260—51)

1. A water-soluble polymerizable condensation product obtained by condensing a phenol with formaldehyde in relative molar proportions of from about 1:1 to about 1:2 and with at least about 25% by weight of borax, based on the weight of phenol under alkaline conditions.

2,667,467

STYRENE COPOLYMERS

Richard R. Morner, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 15, 1951, Serial No. 231,905

3 Claims. (Cl. 260—63)

1. A copolymer of 50–99 per cent by weight of styrene and from 1 to 50 per cent of 4-acetyl-α-methylstyrene.

2,667,468

MAKING POLYSULFONAMIDES FROM BIS-SULFONYL CHLORIDE AND DIAMINE SALT IN PRESENCE OF WATER AND WATER-IMMISCIBLE SOLVENT

Wilford Donald Jones and Samuel B. McFarlane, Summit, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application August 31, 1950, Serial No. 182,616

8 Claims. (Cl. 260—79.3)

6. Process for the production of polysulfonamides, which comprises agitating an aqueous solution of an acid salt of a diamine, containing free amino hydrogen on each of the amino nitrogens and having not less than two carbon atoms in a chain separating the amino nitrogens, with a solution of a bis-sulfonyl chloride, containing not less than two carbon atoms in a chain separating the sulfonyl chloride groups, in a water-immiscible organic solvent, said solutions being free from other polymerizable materials, continuing the agitation while adding an alkaline neutralizing agent to the emulsion to neutralize the diamine acid salt and release the free diamine, and separating a polysulfonamide from the liquid phase.

2,667,469

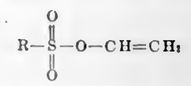
VINYL ESTERS OF HYDROCARBONSULFONIC ACIDS AND POLYMERS THEREOF

John C. Sauer, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 19, 1951, Serial No. 211,809

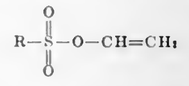
22 Claims. (Cl. 260—79.3)

16. A monomeric vinyl ester of a hydrocarbonsulfonic acid having the formula



wherein R is a monovalent saturated hydrocarbon radical.

20. A method for preparing a copolymer of a vinyl ester of a hydrocarbonsulfonic acid which comprises contacting at a temperature of 0° to 150° C. with an addition polymerization initiator, a monomeric ethylenically unsaturated polymerizable compound and a monomeric vinyl ester of a hydrocarbonsulfonic acid having the formula



wherein R is a monovalent hydrocarbon radical selected from the class consisting of aryl and saturated hydrocarbon radicals.

2,667,470

WITHDRAWN

2,667,471

POLYMERIZATION OF BUTADIENE-1,3 COMPOUNDS

James S. Sweely, Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

No Drawing. Application November 4, 1950, Serial No. 194,194

8 Claims. (Cl. 260—83.7)

1. The process which comprises polymerizing, at a temperature of at least about 32° F., a butadiene-1,3 compound in aqueous emulsion in the presence of an emulsifying agent comprising alkali metal soaps of a mixture of petroleum naphthenic acids containing less than about 10 percent unsaponifiable material, said mixture containing all of the naphthenic acids whose soaps are in said aqueous emulsion, said mixture having bromine number less than about 6 and saponification number on an oil-free basis within the approximate range from 160 to 300 mg. of KOH per gram and being substantially free from components boiling above about 485° F. at 1 mm. Hg, and at least a major proportion of said mixture having been prepared by removing naphthenic acid components boiling above about 485° F. at 1 mm. Hg from lubricating oil naphthenic acid mixtures containing substantial amounts of such naphthenic acid components.

2,667,472

SHORTSTOPPING OF BUTADIENE-STYRENE EMULSION POLYMERIZATION

Robert W. Brown, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application February 24, 1950, Serial No. 146,164

3 Claims. (Cl. 260—84.3)

1. In the preparation of a synthetic rubber latex by the polymerization of an aqueous emulsion of a mixture of butadiene-1,3 and styrene, the steps which comprise adding to the emulsion 0.1 to 1 part by weight of a xanthogen polysulfide containing 3 to 7 sulfur atoms per 100 parts by weight of polymerizable material initially present, said xanthogen polysulfide addition being the first addition of the chemical and said addition being after conversion of 50 to 90% of the polymerizable material originally present in the emulsion to synthetic rubber to stop polymerization of unreacted polymerizable monomeric material, and thereafter removing unreacted polymerizable monomeric material from the latex.

2,667,473

VINYL ACETATE-N-VINYL-PYRROLIDONE COPOLYMERS

Richard R. Morner, Dayton, Ohio, and Raymond I. Longley, Jr., Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application February 8, 1952, Serial No. 270,752

2 Claims. (Cl. 260—85.7)

1. The copolymer of vinyl acetate and from 10 per cent to 40 per cent by weight of said copolymer of N-vinyl-2-pyrrolidone.

2,667,474

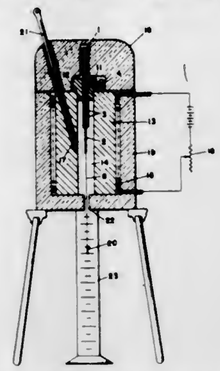
HEAT TREATMENT OF POLYTRIFLUOROCHLOROETHYLENE PLASTIC

William T. Miller, Ithaca, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application February 21, 1947, Serial No. 730,176

2 Claims. (Cl. 260—92.1)

1. The method of treating a tough, thermoplastic orientable polytrifluorochloroethylene which comprises heating the polymer to above its transition temperature, rapidly quenching the hot polymer, and thereafter heating the quenched



polymer for a relatively long time at a temperature below its transition temperature.

2,667,475

BLEACHING KERATINOUS MATERIALS

Harold F. Fick, Beloit, Wis., assignor to Rochester Button Company, Rochester, N. Y., a corporation of New York

No Drawing. Application February 23, 1951 Serial No. 212,513

6 Claims. (Cl. 260—123.7)

1. A method of bleaching keratinous materials which comprises inactivating the catalase content of the keratinous material and thereafter treating the material with an aqueous solution of hydrogen peroxide.

2,667,476

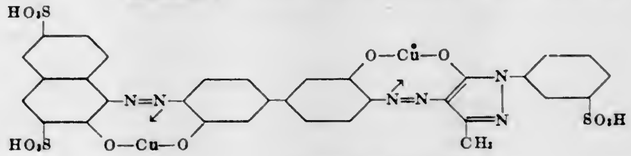
METALLIZED DYES FOR COTTON

Charles H. Stratton, East Greenbush, N. Y., and William W. Williams, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 20, 1950, Serial No. 150,822

1 Claim. (Cl. 260—147)

The dye substantive to cotton of the following structure:



2,667,477

DISAZO-DYESTUFFS

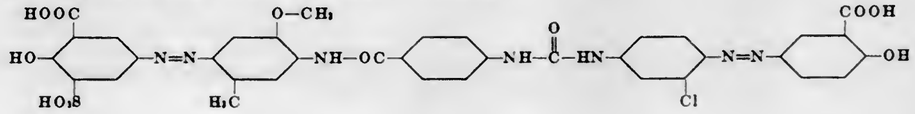
Hans Wilhelm Liechti, Riehen, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a firm of Switzerland

No Drawing. Application November 13, 1950, Serial No. 195,453

Claims priority, application Switzerland December 2, 1949

9 Claims. (Cl. 260—175)

6. The disazo-dyestuff corresponding to the formula



2,667,478

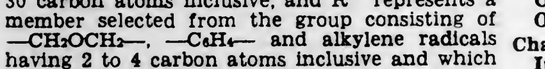
ACID ESTERS OF FATTY ACYLATED N-ALKYLGLUCAMINES

Anthony M. Schwartz, Washington, D. C., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application October 26, 1950, Serial No. 192,372

7 Claims. (Cl. 260—211)

1. As a new composition of matter, a compound selected from the group consisting of the compound having the formula:



wherein R′ represents a member selected from the group consisting of alkyl radicals having 1 to 6 carbon atoms inclusive; R represents the hydrophobic residue of a carboxylic acid having 8 to 30 carbon atoms inclusive, and R″ represents a member selected from the group consisting of —CH_2OCH_2—, —C_6H_4— and alkylene radicals having 2 to 4 carbon atoms inclusive and which contain not more than one double bond and not more than two hydroxyl groups as substituents, and the alkali metal, alkaline earth metal and ammonium salts of the said amide ester acids.

2,667,479

BENZIMIDAZOLE PHOSPHATE

Dorothea Heyl Hoffman, Rahway, Clifford H. Shunk, Scotch Plains, and Karl Folkers, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application January 30, 1951, Serial No. 208,651

1 Claim. (Cl. 260—211.5)

1 - (5′ - trityl - α - D - ribofuranosido) - 5,6-dimethylbenzimidazole dibenzylphosphate.

2,667,480

MANUFACTURE OF CELLULOSE ETHER

Wiley Monroe Branan and Gild Edward Desetti, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 5, 1950, Serial No. 172,198

10 Claims. (Cl. 260—231)

1. A process for the preparation of water-soluble sodium carboxymethyl cellulose which comprises adding to water moistened alkali cellulose, at a temperature no higher than about 30° C. sufficient etherifying agent selected from the group consisting of monochloroacetic acid and sodium monochloroacetate to provide a degree of etherification which renders the product water-soluble, agitating the mass within the aforementioned temperature limit until thorough mixing is obtained and thereafter subjecting it to uniform heating at a temperature sufficient to cause concurrent etherification and water vaporization thereby producing a substantially dry, water-soluble product.

2,667,481

PROCESS FOR MAKING WATER-SOLUBLE HYDROXYALKYL CELLULOSE ETHERS

Clinton W. Tasker, Upland, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 28, 1949, Serial No. 107,372

9 Claims. (Cl. 260—232)

1. A process for producing a water-soluble hydroxyalkyl cellulose comprising reacting a mass consisting of a substantially anhydrous alkali-soluble, water-insoluble hydroxyalkyl cellulose having between 0.1 and 0.5 alkylene oxide groups per glucose unit and an alkylene oxide etherifying agent at 80–110° C. under pressure until a substitution of 2 to 5 alkylene oxide groups per glucose unit is attained, said water-insoluble cellulose ether being selected from the group consisting of those derived from the reaction of cellulose with a compound selected from the group consisting of ethylene oxide, propylene oxide, and glycide, and the etherifying agent being selected from the group consisting of ethylene oxide, propylene oxide, and glycide.

2,667,482

PRODUCTION OF WATER-SOLUBLE SALTS OF CERTAIN CELLULOSE DERIVATIVES OF IMPROVED PHYSICAL FORM

Charles H. Rigby, Saltcoats, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application January 16, 1951, Serial No. 206,288

Claims priority, application Great Britain February 9, 1950

6 Claims. (Cl. 260—232)

1. A method of converting a fiberous water soluble sodium salt of carboxymethyl cellulose into a powdered form of relatively high bulk density in comparison with the bulk density realized by comminuting said carboxymethyl cellulose in fiberous form which comprises subjecting a fiberous water soluble sodium salt of carboxymethyl cellulose wet with an aqueous solution of a water miscible alcohol in which said carboxymethyl cellulose is insoluble so that the fiberous structure of said carboxymethyl cellulose is retained in said solution, which alcohol boils at a boiling point below the boiling point of water, to roller pressure between hard surfaces to cause said carboxymethyl cellulose to spread under the pressure and form elements of a continuous web of at least incipiently gelatinized material, drying said web and comminuting the resulting hard brittle sheet elements to a powdery product.

2,667,483

PURIFICATION OF LACTAMS

Rudolph N. G. Zeegers, Geleen, Netherlands, assignor to De Directie van de Staatsmijnen in Limburg, Heerlen, Netherlands

No Drawing. Application January 7, 1952, Serial No. 265,361

Claims priority, application Netherlands January 17, 1951

3 Claims. (Cl. 260—239.3)

1. A process for recovering purified caprolactam from polyamide waste material which comprises depolymerizing the polyamide in said waste material whereupon caprolactam is obtained, dissolving the thus obtained impure caprolactam in from 0.85 to 2.5 parts by weight of oleum per part of lactam, heating the resulting solution to a temperature of between about 120° to 190° C., thereafter neutralizing said solution by addition thereto of an aqueous alkaline solution whereupon a water layer and an oil layer containing the caprolactam are formed, separating said oil layer from said water layer and thereafter distilling purified caprolactam from said oil layer.

2,667,484

2,4-DIAMINOPTERIDINE ALDEHYDES

Harold G. Petering, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 22, 1950, Serial No. 175,476

6 Claims. (Cl. 260—251.5)

1. A compound selected from the group consisting of 2,4-diamino-6-formylpteridines, 2,4-diamino-7-formylpteridines and aldehyde derivatives thereof.

2,667,485

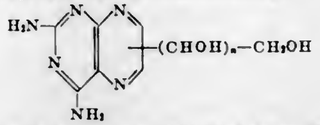
2,4-DIAMINO-6-(HYDROXYALKYL) PTERIDINES

Harold G. Petering, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 22, 1950, Serial No. 175,477

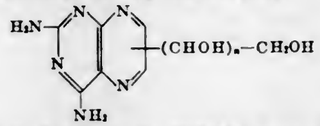
18 Claims. (Cl. 260—251.5)

1. A member of the group consisting of compounds represented by the formula:



wherein *n* is a number selected from the group consisting of zero and the integers one to three inclusive.

8. A method for the preparation of 2,4-diaminopteridines having the formula:



wherein *n* is a number selected from the group consisting of zero and the integers 1, 2 and 3 comprising contacting in slightly acid solution 2,4,5,6-tetraaminopyrimidine and a member of the group consisting of polyhydroxyaldehydes, polyhydroxyketones and osones and separating the pteridine thus formed from the reaction mixture.

2,667,486

2,4-DIAMINO PTERIDINE AND DERIVATIVES

Cornelius K. Cain, Flourtown, Pa., assignor to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application May 24, 1951, Serial No. 228,139

2 Claims. (Cl. 260—251.5)

1. 2,4-diamino-6,7-di-(monocyclic aryl) pteridines.

2,667,487

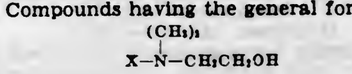
CONDENSATION PRODUCTS OF TRIMETHYLHYDROXYETHYL AMMONIUM HYDROXIDE AND DIMETHYLXANTHINE AND PROCESS OF PREPARING SAME

Wolffe Harry Feinstone, Indianapolis, Ind., assignor to Nepera Chemical Co., Inc., Yonkers, N. Y., a corporation of New York

No Drawing. Original application April 2, 1952, Serial No. 280,166, now Patent No. 2,661,352, dated December 1, 1953. Divided and this application July 29, 1953, Serial No. 371,184

9 Claims. (Cl. 260—256)

1. Compounds having the general formula



wherein X is a dimethylxanthine radical, the 8-position being unsubstituted.

4. The process of producing new therapeutic agents, which comprises reacting choline base (trimethylhydroxyethyl-ammonium hydroxide) with a dimethylxanthine in a non-aqueous solvent under reflux, cooling the reaction mixture, and separating a choline-dimethylxanthine condensation product therefrom.

2,667,488

TRIS QUINOLINIUM COMPOUNDS

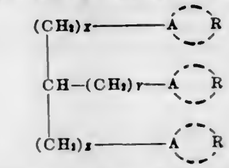
Hans Andersag, Wuppertal-Elberfeld, Hellmut Weese, Wuppertal-Vohwinkel, and Friedrich Bossert, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y.

No Drawing. Application June 23, 1951, Serial No. 233,236

Claims priority, application Germany June 23, 1950

6 Claims. (Cl. 260—286)

1. A compound represented by the formula:



wherein X, Y and Z are integers, individually less than 7, and A is the quaternary nitrogen atom of a radical chosen from the group consisting of quinolinium halides, methoxy quinolinium halides, isoquinolinium halides and methoxy isoquinolinium halides wherein the halide anion is linked to the quaternary nitrogen atom by a coordinate valence bond and R represents the remaining elements of the named quinolinium radicals.

2,667,489

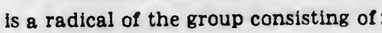
β-(TERTIARY ALKYLMERCAPTO) N-ETHYL QUATERNARY PYRIDINIUM AND QUINOLINIUM DERIVATIVES

John K. Fincke, San Jose, Calif., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

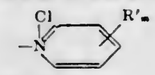
No Drawing. Application January 2, 1952, Serial No. 264,689

7 Claims. (Cl. 260—286)

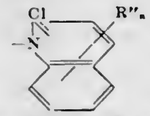
1. Quaternary ammonium chlorides having the structure:



wherein X is a radical of the group consisting of:



and



wherein R is a tertiary alkyl radical having from 14 to 16 carbon atoms derived by the polymerization of a substance of the group consisting of propylene, isobutylene and mixtures of propylene and isobutylene, and wherein R′ and R″ are selected of the group consisting of hydrogen atoms and alkyl radicals having up to three carbon atoms, and wherein *m* and *n* are integers from (0) zero to (3) three, inclusive, indicative of the number of R′ and R″ substituents.

2,667,490

REACTION PRODUCTS OF N-HETEROCYCLIC AMMONIUM THIOCYANATES AND ALDEHYDES

William H. Hill, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

No Drawing. Original application November 26, 1946, Serial No. 712,253. Divided and this application March 8, 1951, Serial No. 218,089

6 Claims. (Cl. 260—294.8)

1. A composition of matter consisting essentially of a reaction product of an aldehyde and a pre-formed hetero-N-ammonium thiocyanate.

2,667,491

PYRIDYLETHYL ETHERS AND PROCESS OF MAKING THEM

Leslie Hunt Sutherland, Springdale, Conn., and Francis E. Cislak, Indianapolis, Ind., assignors to Reilly Tar & Chemical Corporation, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application June 2, 1950, Serial No. 165,866

2 Claims. (Cl. 260—297)

2. n-Decyl 4-pyridylethyl ether whose structural formula is:



2,667,492

METHOD FOR THE RECOVERY OF PRODIGIOSIN

Urs F. Nager, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application November 20, 1950, Serial No. 196,711

10 Claims. (Cl. 260—313)

1. A process for the recovery of prodigiosin which comprises extracting prodigiosin from cells of *Serratia marcescens* with a solvent selected from the group consisting of higher boiling aliphatic liquid hydrocarbons having at least 6 carbon atoms and higher boiling aromatic liquid hydrocarbons, the pH of said solvent having been adjusted to at least 7 with an aqueous solution of a base selected from the group consisting of alkali metal hydroxides, ammonium hydroxide, and saturated aliphatic amines, decanting the supernatant liquid, concentrating said supernatant liquid, and cooling to crystallize prodigiosin base.

2,667,493

BIS-QUATERNARY SALTS AND PROCESSES FOR THEIR PREPARATION

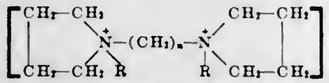
Ronald Slack, Dennis David Libman, and David Lord Pain, Dagenham, England, assignors to May & Baker Limited, Dagenham, England, a British company

No Drawing. Application November 30, 1951, Serial No. 259,317

Claims priority, application Great Britain December 15, 1950

7 Claims. (Cl. 260—313)

1. Quaternary ammonium salts which contain the cation:



where R represents a member of the class consisting of methyl and ethyl and n is at least 5 and not greater than 6.

2,667,494

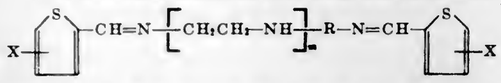
THIOPHENE DERIVATIVES

William S. Emerson and Tracy M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 5, 1948, Serial No. 42,735

8 Claims. (Cl. 260—329)

1. A chemical compound having the structure:



wherein X is a radical of the group consisting of hydrogen, alkyl and halogen, m is a small whole number from zero (0) to three (3), and R is a divalent alkylene radical having from two to six carbon atoms and the said two valence bonds attached to different carbon atoms.

2,667,495

ALKENYLATION OF THIOPHENES

Sam B. Becker, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application December 27, 1949, Serial No. 135,310

11 Claims. (Cl. 260—329)

6. In the process for preparing thienyl alkenes by reaction of a thiophene compound having a hydrogen-substituted alpha carbon atom with a conjugated diolefin having at most 6 carbon atoms per molecule, the improvement which comprises effecting said reaction in the presence of at least about 1 weight percent, based on said thiophene compound, of an alkanesulfonic acid while maintaining the reaction temperature below about 0° C.

2,667,496

ALKENYLATION OF THIOPHENES

Arthur A. Harban, Hammond, and Carl E. Johnson, Griffith, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application December 30, 1949, Serial No. 136,164

8 Claims. (Cl. 260—329)

1. The process of preparing thienyl alkenes that comprises reacting thiophene and a conjugated diolefin at a temperature between about 0° and 80° C. in the presence of at least 1 percent by weight based on the thiophene of a non-olefinic hydrocarbon sulfonic acid-oxonium salt complex catalyst that is stable under reaction conditions and is formed by mixing a saturated ether having not more than 12 carbon atoms and a non-olefinic hydrocarbon sulfonic acid.

2,667,497

PROCESS FOR THE PREPARATION OF CYCLIC CARBONATES

Warren K. Cline, Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application December 12, 1951, Serial No. 261,383

12 Claims. (Cl. 260—340.2)

1. A process for manufacturing an alkylene carbonate which comprises reacting carbon dioxide with a lower alkylene oxide at about 150° to 250° C. and under a pressure of about 500 to 2000 pounds per square inch pressure in the presence of a solid catalyst consisting of a halide selected from the group consisting of chlorides, bromides and iodides of an alkaline earth metal selected from the group consisting of calcium and magnesium and recovering the alkylene carbonate from the reaction mixture.

2,667,498

SELECTIVE DEHALOGENATION OF CERTAIN HALOGENATED KETONES

Percy L. Julian, Maywood, and William J. Karpel, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application September 17, 1949, Serial No. 116,415

10 Claims. (Cl. 260—397.4)

1. The process which comprises treating a steroid compound selected from the class consisting of 17-bromo-21-iodo-20-keto pregnenes and pregnanes with sodium bisulfite.

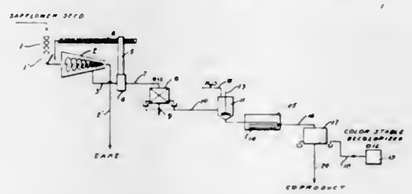
2,667,499

METHOD OF PROCESSING SAFFLOWER SEED

Leo M. Christensen, Lincoln, Nebr., assignor of fifteen per cent to Raymond J. Norton, Washington, D. C.

Application October 31, 1950, Serial No. 193,254

9 Claims. (Cl. 260—412.2)



1. A method of decolorizing safflower oil which comprises maintaining the oil at a temperature of the order of about 495° F. for a period of about five minutes.

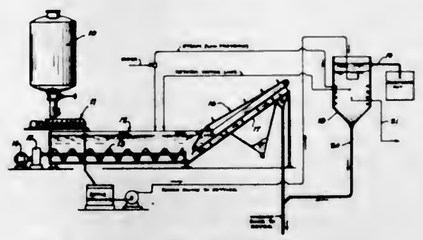
2,667,500

GLUE BONE TANKAGE TREATMENT

Everett N. Mortenson, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois

Application May 12, 1950, Serial No. 161,505

2 Claims. (Cl. 260—412.6)



1. A method for degreasing glue bone tankage having fat particles occluded therein, which comprises: conveying said tankage in a submerged state through a hot water zone maintained at atmospheric pressure and a temperature within the range of about 180° to 200° F.; agitating said tankage passing through said zone to a degree equivalent to that produced by an agitator having a peripheral velocity between 0.5 and 2.0 feet per second; removing the floating fat particles liberated from said tankage by said agitation; and then removing the degreased tankage from said zone.

2,667,501

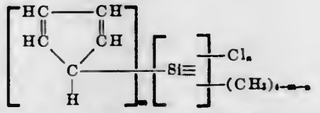
CYCLOPENTADIENYLSILANES

Robert W. Martin, Lafayette, Calif., assignor to General Electric Company, a corporation of New York

No Drawing. Application February 10, 1953, Serial No. 336,195

5 Claims. (Cl. 260—448.2)

1. A composition of matter corresponding to the general formula



where m is an integer equal to from 1 to 2, inclusive, and n is a whole number equal to from 0 to 2, inclusive, the total of $m+n$ being at most 3.

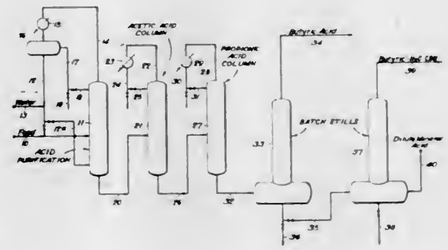
2,667,502

PURIFYING SYNTHETIC WATER-SOLUBLE CARBOXYLIC ACIDS

Alfred Steitz, Jr., and Robert H. Jacoby, Tulsa, Okla., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application January 27, 1949, Serial No. 73,144

5 Claims. (Cl. 260—450)



4. In a process for obtaining substantially pure dry water-soluble carboxylic acids, which form minimum boiling azeotropes with water, from dilute aqueous solutions thereof, said acids having been produced by synthesis from hydrogen and carbon monoxide and containing water-soluble organic oxygenated impurities simultaneously produced with said acids, including water-soluble esters and carbonyl compounds which boil near the boiling points of said acids or form azeotropes with at least some of said acids in the absence of water, wherein a dilute aqueous mixture of said acids and impurities is first subjected to extraction with a substantially water-immiscible solvent for said acids, and the latter, together with said impurities, separated in substantially anhydrous form from the resulting extract to obtain said acids in a substantial-

ly anhydrous fraction containing said impurities, the steps which comprise adding only sufficient water to said fraction to form minimum boiling azeotropes with said impurities, and thereafter subjecting the resulting mixture to distillation at a temperature below the boiling point of said first-mentioned minimum boiling azeotropes until said fraction is sufficiently free of said impurities to pass standard acid turbidity tests.

2,667,503

METHOD OF PREPARING ORTHO SULFONYL CHLORIDE BENZOIC ACID ESTERS

Oliver F. Senn, Toledo, Ohio, assignor, by mesne assignments, to Maumee Development Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application July 27, 1951, Serial No. 239,006

2 Claims. (Cl. 260—470)

1. In a method for preparing ortho sulfonyl chloride benzoic acid esters, the steps which comprise intimately contacting an aqueous suspension of an ester of 2,2'-dicarboxy-diphenyl-disulfide with a monohydroxy alcohol having less than 8 carbon atoms in the molecule, at a temperature below 40° C. with chlorine until reaction to form the sulfonyl chloride is substantially complete, and separating the suspended reaction product.

2,667,504

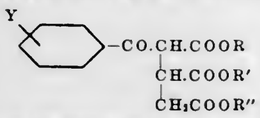
TRIALKYL - 1 - BENZOYLPROPANE - 1,2,3 - TRICARBOXYLATES AND PROCESS OF PREPARING SAME

Joachim Dazzi, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 24, 1951, Serial No. 228,111

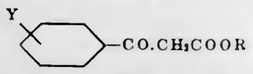
5 Claims. (Cl. 260—475)

1. A compound having the formula

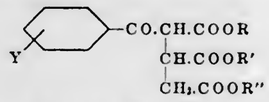


in which Y is selected from the class consisting of hydrogen and the methyl radical and R, R'' and R' are alkyl radicals of from 1 to 4 carbon atoms.

4. The method which comprises heating at a temperature of at least 200° C., a keto-acetate having the general formula



in which Y is selected from the class consisting of hydrogen and the methyl radical and R is an alkyl radical of from 1 to 4 carbon atoms with a dialkyl fumarate in which each alkyl radical has from 1 to 4 carbon atoms, and recovering from the resulting reaction product a tricarboxylate having the formula



in which Y is selected from the class consisting of hydrogen and the methyl radical and R, R' and R'' are alkyl radicals of from 1 to 4 carbon atoms.

2,667,505

ALKYL ESTERS OF POLYHALOGENO-ALKENYL MALONIC ACIDS

Elbert C. Ladd and Merlin P. Harvey, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 9, 1951, Serial No. 255,726

3 Claims. (Cl. 260—485)

1. A polyhalogenopropenyl derivative having the formula



where in X is halogen selected from fluorine, chlorine and bromine, and R is lower alkyl.

2,667,506

SURFACE-ACTIVE COMPOSITION

Joachim Dazzi, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 25, 1951, Serial No. 243,756

8 Claims. (Cl. 260—512)

1. An alkali metal salt of a sulfonic acid selected from the class consisting of (alkylphenoxy) butanesulfonic acid and (dialkylphenoxy)-butanesulfonic acid in which each alkyl radical has from 5 to 14 carbon atoms and the total number of carbon atoms in the alkyl radicals is from 7 to 14.

2,667,507

PREPARATION OF DISULFONIC ACIDS

Wilford Donald Jones and Samuel B. McFarlane, Summit, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Original application August 31, 1950, Serial No. 182,616. Divided and this application May 8, 1951, Serial No. 225,286

4 Claims. (Cl. 260—513)

1. Process for the production of disulphonic acids, which comprises adding a hydrocarbon dithiol in which the hydrocarbon contains no more than twelve carbon atoms to a solution in glacial acetic acid of a 30 to 90% aqueous solution of hydrogen peroxide containing a stoichiometric excess of hydrogen peroxide while maintaining the reaction mixture at a temperature of from 80 to 115° C., and recovering the disulphonic acid from the reaction mixture.

2,667,508

PREPARATION OF CARBOXYLIC ACIDS FROM ALLYLIC COMPOUNDS

Philip H. Towle, Hammond, Ind., and Philip Hill, Lansing, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application December 28, 1951, Serial No. 263,983

5 Claims. (Cl. 260—540)

1. The process of preparing a saturated carboxylic acid directly from a primary allylic halide in which the halogen radical is selected from the group consisting of chlorine and bromine, an olefinic tertiary carbon atom adjoins the halogen-bearing carbon atom and the allylic halide contains a number of carbon atoms per molecule in the range of 4 to 8, which process comprises heating an alkali metal hydroxide to a temperature in the range of about 200 to 350° C. to provide a hot liquid oxidizing medium, slowly

adding said primary allylic halide to said hot liquid oxidizing medium while agitating said medium and maintaining it in said range whereby the primary allylic halide is quickly raised to said temperature with the avoidance of side reactions that would take place at lower temperatures, continuing the agitation of the primary allylic halide in the hot reaction medium until a substantial amount of gas is liberated therefrom evidencing substantial conversion, acidifying the resulting alkali metal saturated carboxylic acid salt and recovering a saturated carboxylic acid from said salt, said carboxylic acid having the same number of carbon atoms per molecule as said allylic halide.

2,667,509

AROMATIC THIOSEMICARBAZONES

Hans Schmidt, Wuppertal-Vohwinkel, and Robert Behnisch and Fritz Mietzsch, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application August 8, 1951, Serial No. 240,978

6 Claims. (Cl. 260—552)

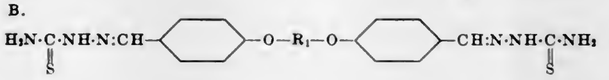
1. As a novel chemotherapeutic agent a member of the class consisting of compounds having one of the formulae

A.



and

B.



wherein R is a member of the group consisting of the alkenyl and alkynyl radicals containing at most 4 carbon atoms; X is a member of the group consisting of hydrogen and alkenyl of 3 carbon atoms; and R_1 is the alkenylene radical of 4 carbon atoms.

2,667,510

CHEMICAL PROCESS FOR DIALKYL-ACYLAMIDES

William T. Dye, Jr., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application May 25, 1951, Serial No. 228,377

8 Claims. (Cl. 260—561)

1. A process for producing dialkylacylamides which comprises heating under anhydrous conditions a reaction mixture consisting of equimolecular reaction proportions of a tris(dialkylamido)-phosphate in which the alkyl group contains from 1 to 2 carbon atoms and an aliphatic anhydride selected from the group consisting of acetic anhydride, propionic anhydride, and butyric anhydride, at a temperature approximately that of the boiling point of said dialkylacylamides, and thereafter continuing the heating of the reaction mass and recovering the dialkylacylamides.

2,667,511

PROCESS FOR PRODUCING ALKYL-SUBSTITUTED ACYLAMIDES

Cole Downing, Decatur, Ala., assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

Application August 25, 1951, Serial No. 243,685

11 Claims. (Cl. 260—561)

1. The method of manufacturing a dimethylacylamide of the formula:

$$RCON(CH_3)_2$$

where R is an alkyl radical having from 1 to 3 carbon atoms which comprises adding dimethylamine and an acyl compound selected from the group consisting of acetic acid, propionic acid, butyric acid and the corresponding anhydrides thereof to a body of liquid comprising dimethylacylamide and the corresponding acid containing the acyl radical of the desired acylamide, the proportion of said acid with respect to said dimethylacylamide present in said body being less than that corresponding to the azeotrope thereof.

2,667,512

HALOGENATED CYCLIC KETONES AND METHOD FOR THEIR PRODUCTION

David E. Adelson, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 29, 1949, Serial No. 124,483

7 Claims. (Cl. 260—586)

1. The method comprising heating, at a temperature above 100° C. for at least one hour, a reaction mixture comprising (*a*) a cyclic, olefinically unsaturated ketone reactant of the type wherein the carbonyl carbon atom is embraced in the cycle, (*b*) a reactant selected from the group consisting of polyhalogenated alkanes and polyhalogenated fatty acids having at least two halogen atoms attached to a single carbon atom, and (*c*) from about 0.01 to 0.2 mole percent of a peroxide catalyst, said reactants being employed in the ratio of from about 1 to 5 moles of the polyhalogenated compound for each mole of the ketone.

2,667,513

MANUFACTURE OF FORMALDEHYDE

Art C. McKinnis, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application April 3, 1950, Serial No. 153,630

9 Claims. (Cl. 260—604)

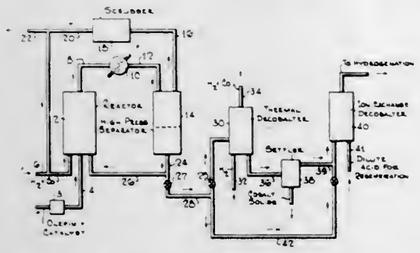
1. The process for the production of formaldehyde which comprises forming a substantially oxygen-free combustible mixture of nitrogen dioxide and a hydrocarbon gas selected from the class consisting of methane and natural gas, said mixture containing from about one to about five moles of the hydrocarbon per mole of nitrogen dioxide, subjecting said mixture to a reaction temperature substantially equal to the flame combustion temperature of said mixture for from about 0.001 to about 0.5 second and in the substantial absence of oxygen, and thereafter separating formaldehyde from the products of the reaction.

2,667,514

DECOBALTING OXO ALDEHYDES WITH ION EXCHANGE RESINS

Mack C. Fuqua and Glen P. Hamner, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application July 11, 1951, Serial No. 236,132
13 Claims. (Cl. 260—604)



1. In a carbonylation process wherein carbon compounds containing olefinic double bonds, carbon monoxide and hydrogen are contacted in an initial reaction zone with a cobalt carbonylation catalyst under conditions to produce reaction products comprising aldehydes containing at least one more carbon atom than said carbon compounds and wherein said reaction products containing in solution cobalt-comprising compounds is withdrawn from said reaction zone, the improvement which comprises contacting at least a portion of the cobalt content of said aldehyde product with a cationic ion exchange resin at a temperature below about 200° F. whereby said cobalt is removed from solution.

2,667,515

PREPARATION OF ALKYL MERCAPTANS

Leland K. Beach, Mountainside, and Allan E. Barnett, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 30, 1950, Serial No. 187,830
3 Claims. (Cl. 260—609)

1. A process for the preparation of methyl mercaptan which comprises passing a reactant mixture comprising dimethyl sulfide and an excess of hydrogen sulfide over a catalyst consisting essentially of cadmium sulfide-alumina containing about 10% by weight of cadmium sulfide at a temperature of approximately 400° C., and recovering methyl mercaptan from the resulting products.

2,667,516

PROCESS FOR MAKING CHLOROMETHYL METHYL ETHER

William C. Bauman and Elmer L. McMaster, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application June 7, 1950, Serial No. 166,757
3 Claims. (Cl. 260—614)

1. In a method of making chloromethyl methyl ether wherein a solution containing approximately equimolecular proportions of formaldehyde and methyl alcohol is substantially saturated with hydrogen chloride at temperatures between 0° and 60° C. and the chloromethyl methyl ether product is separated as a liquid organic layer from the liquid aqueous phase of the reaction mixture, the improvement which consists in heating the liquid aqueous phase of the reaction mixture to distill volatile components, together with a portion of the water and leave an aqueous residue containing approximately 20 percent by weight of hydrochloric acid, mixing the distillate with a further quantity of the above-mentioned starting materials in the proportions given, and repeating the process as just described.

2,667,517

METHOD OF PREPARING UNSATURATED ETHERS

Raymond I. Longley, Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 15, 1951, Serial No. 233,117
6 Claims. (Cl. 260—614)

1. The method of producing an ether having the formula

$$R'$$
$$|$$
$$R.C{:}C(Y)(OZ)$$

in which R and R' are selected from the class consisting of hydrogen and alkyl radicals of from 1 to 7 carbon atoms, Y is selected from the class consisting of hydrogen and alkyl radicals of from 1 to 8 carbon atoms and Z is an alkyl radical of from 1 to 2 carbon atoms, and the total number of carbon atoms in the ether molecule is from 3 to 20, which comprises contacting an acetal having the general formula

$$R'$$
$$|$$
$$RCH.C(Y)(OZ)_2$$

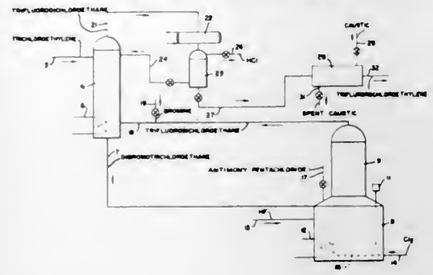
in which R and R' are selected from the class consisting of hydrogen and alkyl radicals of from 1 to 7 carbon atoms, Y is selected from the class consisting of hydrogen and alkyl radicals of from 1 to 8 carbon atoms and Z is an alkyl radical of from 1 to 2 carbon atoms, with a liquid, maintained at a temperature of from 140° C. to 250° C. and comprising a solution of a sulfonic acid selected from the class consisting of aromatic and alkylaromatic sulfonic acids of from 6 to 18 carbon atoms in a solvent selected from the class of hydrocarbons and chlorine-substituted hydrocarbons having a boiling point of at least 175° C.

2,667,518

MANUFACTURE OF TRIFLUOROCHLOROETHYLENE

John M. Wrightson, North Bergen, and Albert L. Dittman, Jersey City, N. J., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application October 9, 1948, Serial No. 53,722
7 Claims. (Cl. 260—653)



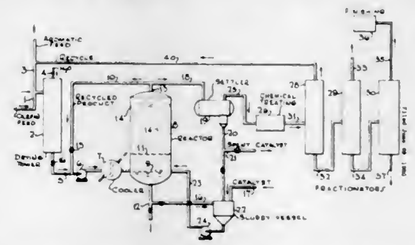
1. A process for the manufacture of trifluorochloroethylene from trichloroethylene which comprises reacting trichloroethylene with bromine at a temperature between about 20° C. and about 100° C. to produce the corresponding dibromide addition product, reacting the resulting dibromide with hydrogen fluoride at a temperature between about 0° C. and about 300° C. and at a pressure between about atmospheric and about 200 pounds per square inch gage in the presence of an antimony salt containing chlorine to produce trifluorodichloroethane, and subsequently dehydrochlorinating the trifluorodichloroethane to produce trifluorochloroethylene as the product of the process.

2,667,519

ALKYLATION OF AROMATICS

Walter J. Paltz, Fanwood, and Bruce R. Tegge, Chatham, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application June 28, 1950, Serial No. 170,754
8 Claims. (Cl. 260—671)



1. In a process for alkylating an alkylatable aromatic compound of the class consisting of benzene and toluene with a C_{11} to C_{21} olefin by contact with an inorganic halide alkylation catalyst under alkylation conditions, the improvement which comprises admixing the olefin reactant with at least a stoichiometrical equimolar proportion of aromatic reactant to form a feed mixture, and passing the resulting feed mixture together with the recycled stream of alkylate product and unreacted aromatic into a reaction zone wherein the alkylation catalyst is retained as a sludge in a heavy reaction mixture, said recycled alkylation product supplying an excess of the aromatic reactant, dispersing the thus introduced mixture of the reactants and alkylate into the heavy reaction mixture, stratifying a resulting alkylation product liquid phase comprising principally alkylate and unreacted aromatic above the heavy reaction mixture which retains the catalyst in a bottom part of said reaction zone, withdrawing the alkylation product thus stratified, separating alkylate from a minor portion of the thus withdrawn product, and returning a remaining major portion of the withdrawn product as said recycled stream.

2,667,520

POLYMERIZATION OF ACETYLENE TO OPEN CHAIN POLYMERS WITH NICKEL COORDINATION COMPOUND CATALYSTS

Elbert C. Herrick, Boothwyn, Pa., and John C. Sauer, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 4, 1952, Serial No. 324,138
14 Claims. (Cl. 260—678)

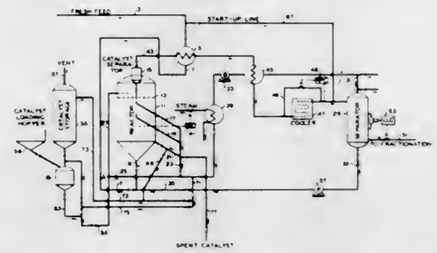
4. Process of synthesizing open-chain acetylene polymers which comprises continuously introducing acetylene at a temperature above about 50° C. into a solution of the nickel salt of the enol form of an acetoacetic ester in pyridine, and separating monovinylacetylene from the reaction products.

2,667,521

HYDROCARBON CONVERSION PROCESS

Ervin C. Harney, Los Angeles, Calif., assignor to Phillips Petroleum Company, a corporation of Delaware

Application November 4, 1948, Serial No. 58,334
5 Claims. (Cl. 260—683.15)



1. An improved process for catalytically polymerizing hydrocarbons, which comprises: passing a hydrocarbon stream, containing low-boiling mono-olefins in admixture with low-boiling paraffins into the bottom portion of a polymerization zone operating at a temperature of from 275 to 550° F. and at a pressure of from 120 to 1200 pounds per square inch gauge and containing a fluidized bed of a 20 microns diameter to 10 mesh silica-alumina polymerization catalyst, said fluidized polymerization catalyst slowly moving downward countercurrent to said hydrocarbon stream which flows upward at a rate of 0.1 to 5 feet per second; maintaining a gaseous hydrocarbon phase in the upper portion of said polymerization zone and above said fluidized bed; causing said mono-olefins to polymerize in said polymerization zone and causing resulting polymerization products to partially condense on said silica-alumina catalyst in the upper portion of said fluidized bed; withdrawing a resulting polymerization product in admixture with unpolymerized hydrocarbons overhead from said polymerization zone and passing same to a separation zone; withdrawing a hydrocarbon stream comprising unreacted paraffins from said separation zone; withdrawing from said polymerization zone a portion of said silica-alumina catalyst present in said fluidized bed and combining same with said hydrocarbon stream withdrawn from said separation zone; passing a resulting mixture of withdrawn catalyst and hydrocarbon stream back into said polymerization zone at a point above said fluidized bed, said catalyst being returned to said fluidized bed at a temperature lower than said temperature of polymerization and withdrawing a hydrocarbon stream from said separation zone containing polymerization products of said process.

2,667,522

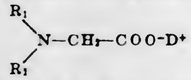
NITROGEN DERIVATIVES OF TETRAACETIC ACIDS AS RUBBER STABILIZERS

John F. McElroy, Somerville, N. J., assignor to Permacel Tape Corporation, a corporation of New Jersey

No Drawing. Application July 7, 1949, Serial No. 103,544
10 Claims. (Cl. 260—814)

9. A composition comprising a rubber selected from the group consisting of natural rubber and

the copolymers of butadiene and acrylonitrile and butadiene and styrene in its soft and soluble, substantially unvulcanized state and from about 0.05 to about ten per cent by weight of the composition of at least one compound of the formula



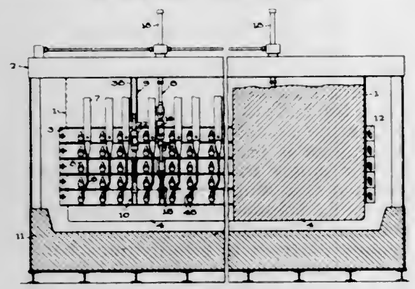
wherein R_1 is selected from the group consisting of —H; $—CH_2COO^-D^+$; and

$(CH_2)_xNR_3—CH_2COO^-D^+$

wherein R_2 and R_3 each are selected from the group consisting of —H; $—CH_2COO^-D^+$; and CH_2COOR_4 wherein R_4 is an alkyl radical having from two to five carbon atoms in the chain; wherein D is a cation selected from the group consisting of H^+, Na^+, K^+, Li^+, NH_4^+, and NH^+A_3; wherein A is at least one of the members of the group consisting of hydrogen, alkyl and ethanol; and wherein x is at least 2 and not more than 4.

ELECTRICAL

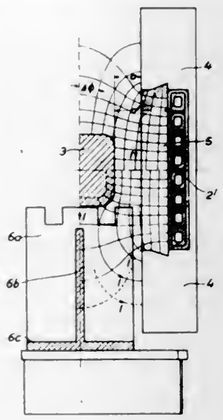
2,667,523
APPARATUS FOR MANIPULATING SODERBERG ELECTRODES
Edgar F. Henderson, Tacoma, Wash., assignor to Kaiser Aluminum & Chemical Corporation, Oakland, Calif., a corporation of Delaware
Application September 7, 1951, Serial No. 245,594
16 Claims. (Cl. 13—18)



1. An electrode casing assembly for a self-baking electrode of substantially rectangular shape comprising a permanent stationary casing member having relatively short downwardly extending longitudinal side portions on the long dimension of the electrode and having relatively long downwardly extending side portions on the short dimension of said electrode, and means being so positioned at each of the short downwardly extending side portions that they form in effect downwardly extending continuations of said short side portions, said means being movable relative to said stationary casing and comprising a vertical row of horizontally stacked channel beams of relatively large cross section, the respective ends of corresponding channel beams in each vertical row being detachably connected to light weight tie rods of relatively small cross section, said tie rods extending across and outside of the long downwardly extending side portions of said stationary casing.

2,667,524
INDUCTION HEATING FURNACE
Ludwig Dreyfus, Thor Thelemarck, Ivar Beckius, and Hugo Lindström, Vasteras, Sweden, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application December 29, 1950, Serial No. 203,255
Claims priority, application Sweden January 14, 1950
7 Claims. (Cl. 13—26)

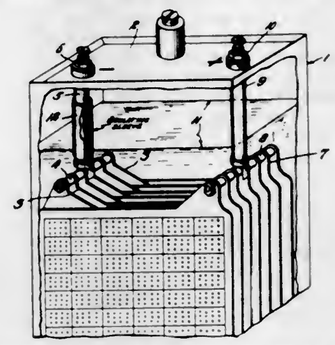
4. An induction furnace for heating metallic articles while such articles are being fed successively and continuously therethrough, comprising two opposed longitudinally extending laminated yokes of magnetic material arranged to form therebetween a space for the passage of the articles being treated, means for moving said yokes towards and away from each other, slots in said yokes, hollow current conductors located



in said slots, flexible conductors located outside and above the space between said yokes and electrically connecting the conductors in the slots in the opposed yokes, and flexible insulating pipe means enclosing said flexible conductors and supplying cooling fluid to the hollow conductors in said slots.

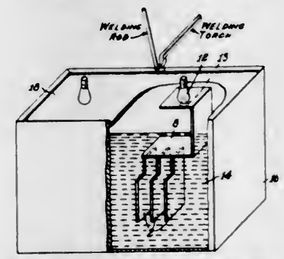
2,667,525
ALKALINE STORAGE BATTERY
Paul Hersch, Birmingham, England, assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
Application December 6, 1951, Serial No. 260,277
Claims priority, application Great Britain December 20, 1950
3 Claims. (Cl. 136—9)

1. In a nickel-iron alkaline electrical storage battery having electrodes, an alkaline electrolyte and conductive supports for the electrodes consisting of bars carried by conducting supporting rods extending upwardly from below the electrolyte surface level, the improvement consisting of an insulating sleeve of a material inert to the electrolyte closely surrounding the supporting rod for the negative electrodes and constructed and arranged to intersect and extend through the normal surface levels of the electrolyte and to exclude contact of the electrolyte with the supporting rod of the negative electrodes at the region of the upper surface level of the electrolyte, thereby opposing open circuit discharge of the



battery incident to the electrochemical action at the surface level of the electrolyte.

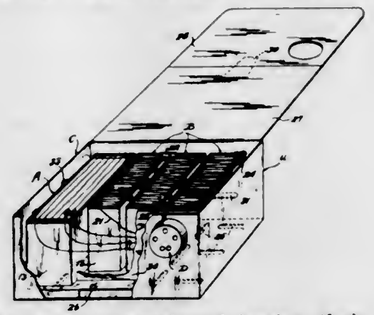
2,667,526
METHOD OF MAKING NICKEL-CADMIUM BATTERIES
Max J. Stumbock, South Orange, N. J.
Application August 29, 1951, Serial No. 244,270
7 Claims. (Cl. 136—29)



1. The method of assembling a nickel-cadmium storage battery of the sintered plate type comprising thermally decomposing carbonyl nickel into carbonyl nickel powder, sintering said carbonyl nickel powder into highly porous plates, impregnating said plates with an oxide taken from the group consisting of NiO and CdO, welding a metallic headpiece member onto said plates, interspersing separator plate members between said impregnated plates, assembling all of said plates into a composite unit, inserting said composite plate unit into a metallic battery can and welding a metallic can cover including battery terminal post studs onto said battery can; said welding steps being performed while keeping said plates at a temperature not exceeding 200° F. by submerging them in a coolant medium whose temperature does not exceed 100° F.

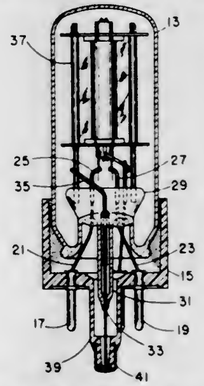
2,667,527
DEFERRED ACTION BATTERY
Leo E. Pucher, Euclid, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of Ohio
Application August 15, 1949, Serial No. 110,287
3 Claims. (Cl. 136—90)

1. A deferred action battery including a container having a movable cover, a partition in said container spaced above and generally parallel with the bottom thereof, said partition dividing said container into upper and lower compartments and having a plurality of openings, a plurality of relatively rigid open-ended collars in said upper compartment having their lower open ends resting upon said partition and in communication with said lower compartment through said openings in said partition, a multi-cell battery in each of said collars, the cells of said batteries comprising positive and negative electrodes separated



by absorbent material and having their upper and lower ends open whereby the lower ends of a plurality of said cells are in communication with said lower compartment allowing electrolyte in said cells other than that absorbed in said absorbent material to drain into said lower compartment.

2,667,528
ELECTRONIC TUBE
David A. Sokolov, Lynn, Mass., assignor to Columbia Broadcasting System, Inc., doing business under the name of Hytron Radio & Electronics Co., Salem, Mass., a corporation of New York
Application November 21, 1951, Serial No. 257,562
6 Claims. (Cl. 174—17.08)

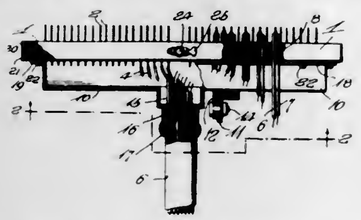


1. In combination with an electron tube, a lead connected to one of the electrodes of said tube, said lead passing through the exhaust tubulation of said tube, the tip on said exhaust tubulation being formed around said lead, a base on said tube having a key, said lead also passing through said key, and means for connecting external circuit elements to said lead.

2,667,529
TERMINAL AND FANNING STRIP FOR ELECTRICAL CONDUCTORS
Harry E. Chapman, Galesburg, Ill.
Application December 29, 1949, Serial No. 135,650
5 Claims. (Cl. 174—19)

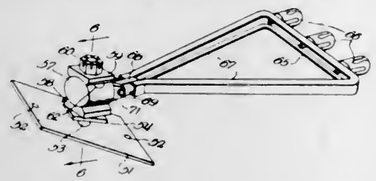
1. A terminal strip comprising a panel of insulation material, a multiplicity of electrical con-

nectors arranged in a row and extending through said panel and projecting on opposite sides thereof, connecting means on the opposite ends of said electrical connectors, a chamber having one side opening toward said panel and detachably supported on the surface of one side of said panel and enclosing the projecting ends of said electrical conductors, a cable sheath enclosing a multiplicity of electrical conductors extending through substantially the center of one side of said chamber on an axis substantially normal to the plane of said panel and forming a protective enclosure for the conductors extending from said



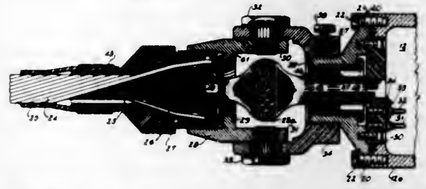
cable to the projecting ends of said electrical connectors on said panel, the open side of said chamber having transverse and longitudinal dimensions within the dimensional limits of said panel, the junctions betwen said chamber and the sheath of said cable, and between said chamber and said panel being substantially gas tight, a transversely disposed port extending through said panel between the opposite surfaces thereof and opens into said chamber, and means detachably connectible with the said panel in alignment with said port for introducing and/or exhausting gas with respect to said chamber.

2,667,530
LEAD-IN WIRE ANCHORING FIXTURE
Harold K. Trunnell, Eugene, Oreg.
Application July 3, 1950, Serial No. 171,858
4 Claims. (Cl. 174—44)



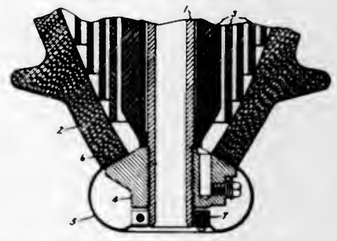
1. A lead-in wire anchor adapted particularly for anchoring lead-in wires onto a sloping roof of a dwelling or the like structure, said anchor comprising an elongated insulator supporting member and a pair of bracket arms extending at right angles thereto from each of the opposite ends thereof, a plurality of spaced apart insulators mounted on said supporting member, a base plate adapted to be fixedly secured onto a roof, and means for securing said bracket arms relative to said base plate including an adjustable connection permitting relative adjustment between said plate and said supporting member about an axis symmetrical with and normal to the longitudinal direction of said supporting member and a pivotal connection independent of and in series relation with said adjustable connection permitting a free pivotal movement of said bracket arms and supporting member relative to said base plate in a plane normal to the longitu inal direction of said supporting member.

2,667,531
SWIVEL COUPLING FOR SEISMIC SURVEYING SYSTEMS
Kenneth W. McLoad, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application December 27, 1949, Serial No. 135,091
5 Claims. (Cl. 174—70)



5. Means for minimizing stresses at the termination of conductors of a multiconductor cable which has a strength element apart from said conductors, comprising a first anchoring member having structure to which the strength element of a cable may be secured and having a bore through which conductors of such a cable may extend, a second anchoring member including terminal means for terminating cable conductors in a fixed geometrical relation with respect to said second member, means interconnecting said anchoring members and including structure forming a pivotal axis normal to the length of said bore for pivotal movement about said axis of said anchoring members, and said interconnecting means having additional structure for rotation of said pivotal axis with respect to said terminal means.

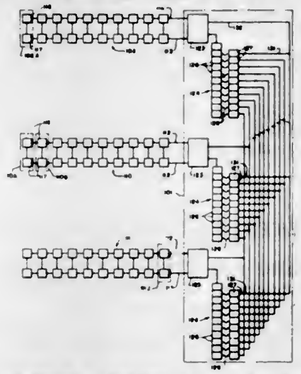
2,667,532
HIGH-VOLTAGE ELECTRICAL INSULATING BUSHING
Philip A. Ewer, London, England, assignor to General Electric Company, a corporation of New York
Application April 26, 1950, Serial No. 158,238
Claims priority, application Great Britain May 17, 1949
1 Claim. (Cl. 174—142)



An electrical insulating bushing comprising a conducting member, a hollow insulating member concentrically surrounding said conducting member in spaced relationship, a metal support member for said insulating member positioned concentrically about said conducting member adjacent an end thereof, said support member being rigidly attached to said conducting member and forming a continuation of a conducting surface of said conducting member, said support member having a frusto-conical exterior surface, the apex of said frusto-conical surface pointing away from said end of said conducting member, a transverse end surface of said insulating member being frusto-conical and parallel to the

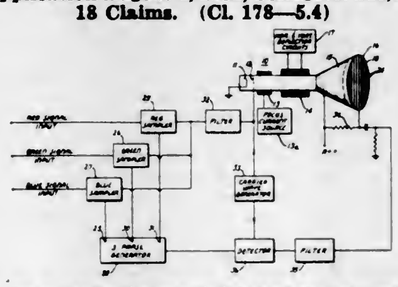
frusto-conical surface of said support member, a hollow metal member having a rounded surface substantially surrounding said end of said conducting member and said support member for reducing electrical stress in the vicinity thereof, said hollow member having a rim portion interposed between said frusto-conical surfaces of said insulating and support members, opposite surfaces of said rim portion abutting said frusto-conical surfaces of said insulating and support members, adjacent surfaces of said insulating member, rim portion, and support member forming a frusto-conical joint.

2,667,533
AUTOMATIC MESSAGE SWITCHING SYSTEM
Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application May 10, 1950, Serial No. 161,165
47 Claims. (Cl. 178—2)



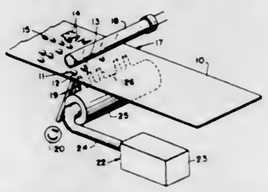
1. In a telegraph system, a plurality of lines, a plurality of stations on each of said lines, a central office, transmitter controllers in said central office associated respectively with each of said lines, means in each of said transmitter controllers for sequentially enabling transmission of all messages addressed to stations on its associated line, and means in each of said transmitter controllers for sequentially testing each station on its associated line for messages awaiting transmission therefrom.

2,667,534
ELECTRICAL SYSTEM
Edgar M. Creamer, Jr., and Melvin E. Partin, Philadelphia, Pa., assignors to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application August 4, 1951, Serial No. 240,324
18 Claims. (Cl. 178—5.4)



1. In a cathode ray tube system: a cathode ray tube comprising a source of an electron beam and a beam interceptive structure including a fluorescent screen structure and also having first and second portions, said portions being responsive to beam impingement to produce outputs which vary in response to variations in beam intensity, the relationship between said outputs and the intensity of said beam being different for said first and second portions; means for deflecting said beam to impinge said beam successively upon said first and second portions of said beam interceptive structure; a source of an image signal comprising components within a predetermined frequency range; means responsive to said image signal to modulate the intensity of said beam to control the light emission from said fluorescent screen structure, said modulation also producing variations in the outputs of said portions comprising frequency components within said range; means for modulating the intensity of said beam at a frequency external to said range, said last-named modulation and the successive impingements of said beam upon said first and second portions cooperating to produce variations in said outputs comprising frequency components external to said range; and means for deriving from said outputs a signal representative solely of variations in said outputs comprising frequency components external to said range.

2,667,535
METHOD AND APPARATUS FOR PHOTOELECTRIC SENSING OF PERMUTATED TAPE
Ransom D. Slayton, Elmhurst, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application October 14, 1950, Serial No. 190,110
14 Claims. (Cl. 178—17)

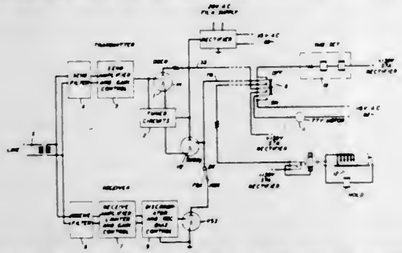


4. In an apparatus for detecting the permutations in apertured tape wherein the apertures are lidded, means for advancing the tape to a sensing station, means for raising the lids on the permutations while the tape is in the sensing station, said raising means providing no obstruction to the passage of light through the apertures formed by the raised lids, means for projecting light through the apertures formed by the raised lids, and means for sensing the light passing through the tape.

2,667,536
CARRIER TELEGRAPH SYSTEM
Leland A. Gardner and John L. Hysko, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 7, 1951, Serial No. 240,628
10 Claims. (Cl. 178—66)

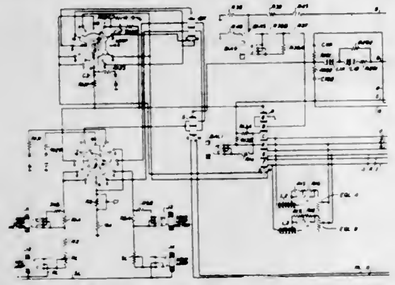
1. A carrier wave telegraph system comprising a carrier oscillator adapted to generate two discrete frequencies for marking and spacing signals respectively, a frequency determining circuit connected thereto comprising a tuned circuit, an auxiliary reactance, and a bridge of varistors therebetween, and direct-current polar

telegraph signals for biasing said varistors from a substantially infinite impedance to a low value to uncouple and couple said auxiliary reactance from said tuned circuit, a supervisory circuit con-



nected to said oscillator and adapted to energize and deenergize it to provide supervisory pulses, a transmission line connected to said oscillator for transmitting said discrete frequencies and supervisory pulses.

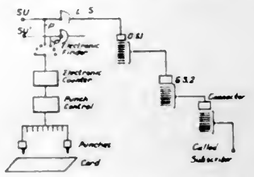
2,667,537
TELEGRAPH REPEATER
Joseph A. Mahoney, New York, and Wilton T. Rea, Manhasset, N. Y., and Carleton B. Sutliff, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 6, 1951, Serial No. 235,458
11 Claims. (Cl. 178—70)



1. In a telegraph repeater, a polar telegraph relay, a line winding thereon connected to a transmission line, a balancing winding on said relay, a first adjustable resistance branch connected between said balancing winding and ground, a second adjustable branch connected between said balancing winding and ground, said branches in parallel, said first resistance branch adjustable for balancing the line with respect to direct current, said second adjustable branch adjustable for balancing the line with respect to transient currents, said second branch comprising a variable resistance in series with a variable capacitance.

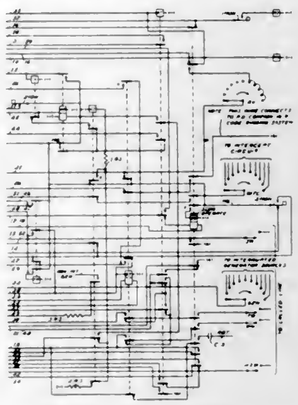
2,667,538
AUTOMATIC TELEPHONE TICKETING SYSTEM
Esmond Philip Goodwin Wright and Joseph Rice, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application March 3, 1950, Serial No. 147,352
Claims priority, application Great Britain March 15, 1949
7 Claims. (Cl. 179—7)

1. Automatic telecommunication exchange recording equipment comprising a group of circuits each having two possible electrical conditions, responding means connected to each of said circuits responsive to a particular one of said two possible electrical conditions, electronic distributor means for automatically scanning said responding means, said distributor means including a source of regularly recurring pulses whereby scanning of said responding means is continuous and at a rate equal to the frequency of the pulses from said source, detector means coupled to said distributor means for detecting



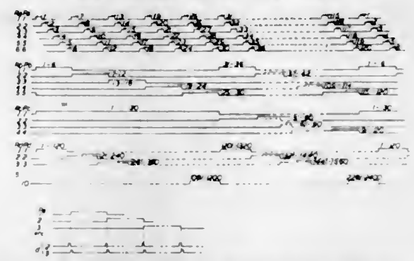
when said distributor means has scanned a responsive responding means, counting means under control of and operable in synchronism with said distributor means for counting each responding means scanned and recording means for recording the position of said counting means when said distributor means has scanned a responsive responding means, said recording means operable under the joint control of said detector means and said counting means.

2,667,539
AUTOMATIC TELEPHONE CONNECTOR CIRCUIT
Frank Kessler and Theodor Frankel, Rochester, N. Y., assignors to Stromberg-Carlson Company, a corporation of New York
Application January 20, 1950, Serial No. 139,701
16 Claims. (Cl. 179—18)



1. In a telephone system, a connector switch, means for seizing said connector switch by a calling line and for controlling its operation by digital impulses transmitted from said calling line to connect with the terminals of a called line, means including a guarding relay operated when said connector switch is seized for applying a guarding potential to a guarding conductor associated with said connector switch to prevent its seizure by another calling line, means controlled by the calling party restoring the receiver for releasing said guarding relay, means for signalling a party on a called line if idle when connected with, a busy relay, means for connecting said busy relay to be operated to apply a busy signal to said calling line in case said called line is busy when connected with, called party holding means for preventing the release of said connector switch when the calling party restores the receiver before the called party, means controlled by said holding means for operating said busy relay when said calling party restores the receiver while said called party is on the line, and means controlled by the operation of said busy relay while said called party is on the line for applying said guarding potential to said guarding conductor.

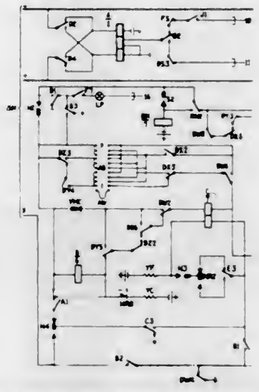
2,667,540
SELECTION SYSTEM FOR ELECTRICAL CIRCUITS OR EQUIPMENTS
Martinus den Hertog and Constantinus de Zeeuw, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application June 14, 1950, Serial No. 168,071
Claims priority, application France June 30, 1949
29 Claims. (Cl. 179—18)



1. In an automatic telecommunication exchange, a plurality of outlets, a common test circuit therefor, means for producing a plurality of recurring electrical pulses, spaced in time, and representing test characteristics, a selector switch circuit comprising means for connecting said pulse producing means to said outlets so as to apply a different test characteristic to said common test circuit for each outlet, each characteristic identifying the corresponding outlet, and means for automatically changing the test characteristic associated with an outlet from one to another of a plurality of different characteristics allocated individually to the outlet when the condition of the outlet changes, each characteristic allocated to an outlet identifying the outlet and its condition.

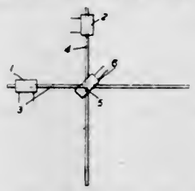
2,667,541
AUTOMATIC SWITCH FOR USE IN TELEPHONE OR LIKE SYSTEMS
Charles Edmund Beale and Horace Edward Hopley, Liverpool, England, assignors to Automatic Telephone & Electric Company Limited, Liverpool, England, a British company
Application September 11, 1950, Serial No. 184,192
Claims priority, application Great Britain September 21, 1949
4 Claims. (Cl. 179—18)

1. In an automatic switching apparatus comprising a plurality of levels of bank contacts, a group of lines terminating in adjacent contacts on different levels, two sets of wipers, an impulse-responding device, means for operating said wipers to one of said levels in response to the reception of a first train of impulses by said impulse-responding device, means for operating said wipers to the first of the adjacent contacts in said one level in response to the reception of a second train of impulses by said impulse-responding device, means for automatically operating said wipers in a step-by-step action, means effective during said step-by-step action for testing simultaneously over both sets of wipers the conditions of the lines accessible through said adjacent contacts, switching means operable



when all lines connected to the adjacent contacts in one level test busy, means responsive to the operation of said switching means for returning said wipers to their normal position and resetting means for automatically operating said wipers on to the first of the adjacent contacts in another level.

2,667,542
ELECTRIC CONNECTING DEVICE
Esmond Philip Goodwin Wright, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application September 25, 1951, Serial No. 248,196
Claims priority, application Great Britain September 26, 1950
7 Claims. (Cl. 179—27.54)

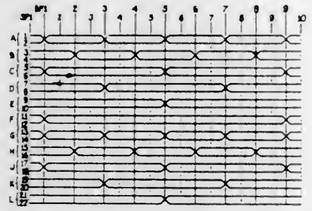


1. A device for transferring communication currents from one transmission circuit to another, comprising two magnetic loops, respectively encircled over portions of their lengths with coils forming parts of said two transmission circuits, one coil forming an input circuit and the other coil forming an output circuit, and a third coil encircling portions of both said magnetic loops.

2,667,543
ELECTRIC RIBBON CABLE
Sidney Reynell Smith and Cecil Rhodes, Liverpool, England, assignors to Automatic Telephone & Electric Company Limited, Liverpool, England, a British company
Application April 9, 1951, Serial No. 219,963
Claims priority, application Great Britain May 26, 1950
5 Claims. (Cl. 179—78)

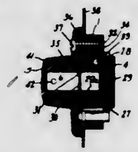
1. A ribbon cable suitable for the multipling of contact banks of automatic telephone switches

having the conductors arranged in zig-zag formation in which transposition is effected without increasing the thickness of the cable by arranging that at a transposition point the conductors of



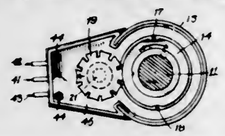
a pair do not cross at one edge of the cable and at the other edge of the cable the connecting loops for the contacts cross outside the thickness of the cable so as to bring them in the proper place.

2,667,544
ELECTRIC SWITCH
Leonard Griffiths, Stoke, Coventry, England, assignor to General Electric Company, a corporation of New York
Application April 2, 1951, Serial No. 218,729
3 Claims. (Cl. 200—8)



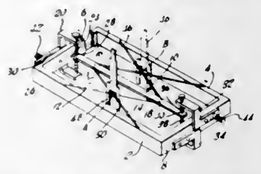
1. An electrical switch comprising a base of insulating material, a plurality of plug connectors each including a spring contact, electric plugs engageable with said plug connectors and a rotor including electrical conducting inserts for interconnecting the spring contacts of said plug connectors, said base defining a plurality of sockets spaced around the circumference of a circle, each of said sockets having a pair of interacting grooves in a wall thereof with one of said grooves having a larger width than the other to provide a shoulder, said plug connector including an integral body portion of resilient material having a tongue extending therefrom slideable within said grooves and engageable with said shoulder to prevent the axial withdrawal of said plug connector from said base, said spring contact portion of said plug connector when in engagement with said rotor acting to bias said tongue into engagement with said shoulder thereby to prevent withdrawal of said plug connector from said base.

2,667,545
AUTOMATIC DIRECTION SIGNAL
Henry M. Leonard, Brooklyn, N. Y.
Application October 11, 1951, Serial No. 250,839
4 Claims. (Cl. 200—61.31)



1. The combination with the steering shaft of a steering column, of a device for controlling the operation of a travel direction signal, including a wheel secured to said shaft, a fixed insulator base, a Geneva mounted in said base, pins on said wheel diametrically opposite each other which are normally out of engagement with said Geneva and which cooperate with said Geneva in response to the turning movement of said wheel by the shaft, spaced arcuate contact plates insulated from each other on said base, and a contact member mounted on said Geneva and insulated therefrom, said contact member being engageable with one of said contact plates when the Geneva is turned by one of said pins upon turning movement of the shaft in one direction, and said contact member also being engageable with the other one of said plates when the Geneva is turned by the other one of said pins upon turning movement of the shaft in the opposite direction.

2,667,546
SNAP SWITCH
James M. Brady, Wantagh, N. Y., assignor to Servomechanisms, Inc., a corporation of New York
Application October 1, 1952, Serial No. 312,539
15 Claims. (Cl. 200—67)

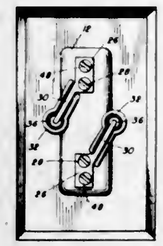


1. A snap action device comprising a movable arm, flexible threads engaging and at least partially supporting said arm at two spaced points, said threads extending outwardly from their points of engagement with said arm and crossing at points spaced laterally of said arm, means securing the ends of said threads under tension in spaced relation, one of said threads overlying the other at the cross-over point on one side of said arm and underlying the other at the cross-over point at the other side of the arm whereby said arm tends to rotate in one direction or the other, depending upon the relative spacing between the threads at the cross-over points about an axis located between the points of engagement with said threads, fixed means positioned for engagement by said arm for limiting the extent of rotation thereof in each direction, and actuating means for varying the spacing between the threads at a cross-over point to cause rotation of said arm.

2,667,547
ELECTRICAL FUSE WALL OUTLET
Charles A. Lindeman, Jr., Cicero, Ill.
Application May 31, 1952, Serial No. 290,877
5 Claims. (Cl. 200—115.5)

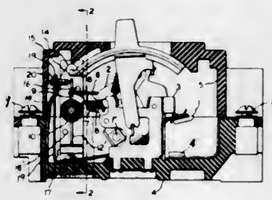
1. An electrical outlet box comprising a receptable having a pair of electrical plug receivers with slots therein for spaced blades of an electric connector plug, a pair of electrical fuses, means for mounting the fuses in the outlet box to extend centrally on opposite sides between the outlet plugs, a conductor blade having a perforated central portion connected to one terminal of each fuse and having bent extremities disposed in the slots of the opposite plug connectors, a spring tongue at the bottom of the receptacle to engage one end of each fuse, means for making an electrical connection with the tongue, a conductor sleeve at the upper end of each fuse extending through the perforation in its blade and to which

the blade is electrically connected, and a cap projecting through the top of the receptacle and



attached to the sleeve for removing it from the outside of the receptacle to renew a fuse.

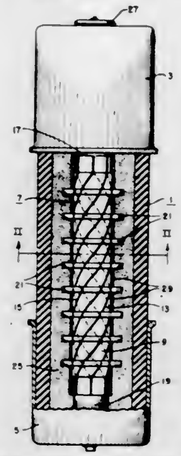
2,667,548
CIRCUIT BREAKER TRIP CONTROL DEVICE
Robert G. Page, New Britain, Conn., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application November 9, 1950, Serial No. 194,758
10 Claims. (Cl. 200—116)



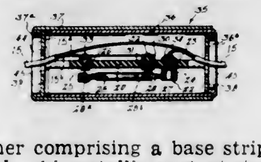
1. In a circuit breaker having cooperating switch contacts, a trip member movable to effect automatic separation of said contacts, latching means normally engaging said trip member to restrain its movement and including at least one movable member, means movable in response to the current traversing said contacts to engage said movable member and move it to a latch-releasing position, said current responsive means being similarly movable in response to a shock force in one direction, and an unbalanced inertia member having a lost motion connection with said movable member and movable in response to such shock force to engage said movable member and oppose its movement to latch-releasing position.

2,667,549
ELECTRIC FUSE CONSTRUCTION
Harold H. Fahnoe, Wilkinsburg, and William A. Gaskill, Turtle Creek, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 29, 1952, Serial No. 290,662
14 Claims. (Cl. 200—120)

1. A fuse including a fuse holder of insulating material having spaced terminals thereon, current-limiting circuit-interrupting means connected between said terminals including one or more fusible conductors, a rod of insulating material having one or more grooves provided therein, the one or more fusible conductors being disposed within the one or more grooves, a thin rupturable covering over the open side of the groove so as to enclose the fusible conductor within the groove, and an inert insulating material outside of the covering to assist in arc extinction.

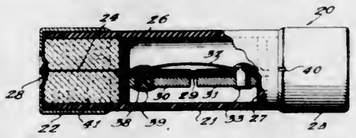


2,667,550
ELECTRIC LIGHT FLASHER
Noel J. Lituchy, New York, N. Y.
Application June 4, 1951, Serial No. 229,800
13 Claims. (Cl. 200—122)



1. A flasher comprising a base strip of dielectric material, a bi-metallic contact strip mounted at one end on said base strip and having a contact at its free end, a second contact mounted on said base strip in alignment with said contact of said contact strip, a third contact mounted on said base strip between the attached end of said contact strip and said second contact, a heater coil mounted on but insulated from said contact strip and having one end secured to said contact strip and its other end secured to said third contact, and a casing enclosing said base strip and including a pair of interfitted tubes slipped into position over said base strip from opposite ends thereof, said tubes having their outer ends closed by discs positioned between the ends of said base strip and inturned end portions of said tubes.

2,667,551
THERMAL TIME LAG FUSE
Gust A. Berthel, Chicago, Ill., assignor to Jefferson Electric Company, Bellwood, Ill., a corporation of Illinois
Application May 8, 1948, Serial No. 25,831
18 Claims. (Cl. 200—123)



1. A cartridge fuse comprising a substantially cylindrical casing, terminal means at the ends of said casing, a bridge disposed within said cas-

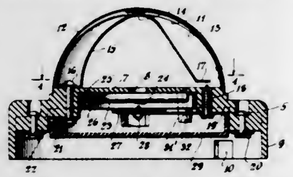
ing, means to space said bridge from said casing and providing a substantially rigid mounting therefor, said bridge being made from electrical insulating material, conducting strips extending between said terminal means and the end portions of said bridge and being provided with fusing portions, a flexurally resilient strip disposed within said casing, means anchoring one end of said resilient strip to said bridge and providing electrical connection with one of said conducting strips, means securing the other one of said conducting strips to another portion of said bridge, and fusible means electrically connecting said last mentioned conducting strip and the free end portion of said resilient strip and maintaining said resilient strip in flexurally stressed condition.

2,667,552

SPOT DETECTOR

Rudolph Walz, Fayson Lakes, N. J., assignor to J. H. Scharff, Inc., Orange, N. J., a corporation of New Jersey

Application July 26, 1950, Serial No. 175,916
6 Claims. (Cl. 200—138)



3. A detector including in combination a base of insulating material, a shell of heat conducting material secured to said base, a diaphragm also secured to said base and providing in cooperation with said shell an air pressure chamber, a contact supported by said base and adapted to be placed in electrical connection with said diaphragm as the latter flexes in response to increase in air pressure within said chamber, means providing a breather structure to permit of a controlled flow of air into and from said chamber, a bimetallic strip having one end secured against movement with respect to said shell and its body extending adjacent the inner face of the latter and terminating in a free end at a point intermediate the edges of said shell, a spring strip disposed between said shell and diaphragm with its ends extending into the space intervening said shell and diaphragm, means for securing one end of said spring strip against movement with respect to said base, a contact carried by said base and engageable by the opposite strip end, the free end of said bimetallic strip engaging the body of said spring strip at a point between the ends of the latter to rock said spring strip around its secured end and cause said opposite strip end to have amplified movement toward and out of engagement with said contact and a centrally apertured portion forming a part of said base and intervening said spring strip and diaphragm.

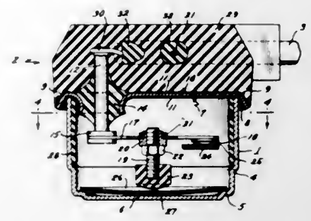
2,667,553

HERMETICALLY SEALED THERMOSTAT

John O. Moorhead and Edward F. Kurtz, Attleboro, Mass., and Robert M. Glidden, Haddonfield, N. J., assignors to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts

Application September 25, 1951, Serial No. 248,222
9 Claims. (Cl. 200—138)

7. A thermostatic switch comprising a hermetically sealed enclosure with one side of said enclosure being provided with electrical insulating means; terminals passing through said insulating means; switch means within said enclosure; thermally responsive means within said enclosure for actuating said switch means to make and break an electrical circuit between said terminals; electrical conductors attached to said terminals on the outside of said enclosure,



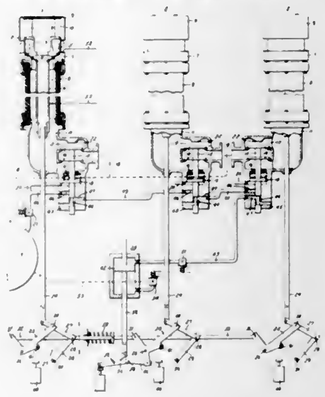
said conductors being covered with moisture-proof electrical insulation; and a molded moisture-proof electrical insulating cap covering said electrical insulating means, said terminals, and a portion of said moisture-proof electrical insulation, thereby to form a moisture-tight continuous covering for said electrical insulating means, terminals, and conductors.

2,667,554

OPERATING MECHANISM FOR ELECTRIC CIRCUIT BREAKERS

Ronald B. Shores, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York

Application June 26, 1951, Serial No. 233,542
6 Claims. (Cl. 200—148)



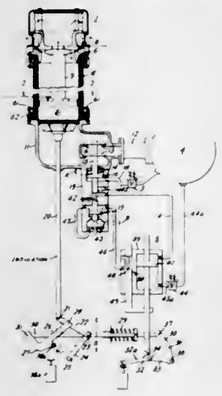
1. An operating system for a multi-pole gas blast electric circuit breaker having an interrupting contact and an isolating contact for each pole of the breaker, said system comprising a plurality of mechanically-independent biased-closed blast valves each arranged to control the flow of gas to one pole of the breaker, a plurality of fluid motors each having a movable part arranged to open one of said blast valves, a master valve arranged to supply gas under pressure to said plurality of motors, means including pressure-responsive motor means for opening said isolating contacts, a plurality of normally closed control valves each movable simultaneously with one of said fluid motors toward the open position during opening of the associated blast valve, each of said control valves being structually interconnected with and movable by said movable part of one of said fluid motors, and conduit means forming a series path from said master valve through all of said control valves to said pressure-responsive motor means.

2,667,555

BLAST DIFFUSING MEANS FOR ELECTRIC CIRCUIT BREAKERS OF THE FLUID-BLAST TYPE

John W. Beatty, Lansdowne, and Harold N. Schneider, Springfield, Pa., assignors to General Electric Company, a corporation of New York

Application May 21, 1952, Serial No. 289,082
2 Claims. (Cl. 200—148)



1. An electric circuit breaker of the fluid blast type comprising an insulating cylindrical casing, a pair of contacts disposed within said casing, said contacts being separable to draw an arc to be extinguished and one of said contacts being reciprocable within said casing, means including a blast valve for directing a blast of fluid to said contacts for extinguishing the arc drawn therebetween upon separation thereof, and diffuser means disposed in the path of said blast for moderating the blast effect in a manner to eliminate harmful oscillations in the pressure of said fluid in the region of said contacts, said diffuser means comprising an annular cylindrical retainer having an inner and an outer wall, a foraminous mass disposed between said walls, and a narrow anti-friction ring captured in said inner wall for guiding said reciprocable contact.

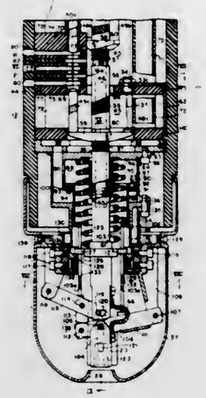
2,667,556

CIRCUIT INTERRUPTER

Roswell C. Van Sickle, Wilkinsburg, Pa., and James M. Cumming, deceased, late of Monroeville, Pa., by Helen J. Cumming, executrix, Monroeville, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 14, 1950, Serial No. 167,988
11 Claims. (Cl. 200—150)

1. A circuit interrupter including an arc extinguishing assemblage, means supporting the arc extinguishing assemblage adjacent one end thereof, a skeleton frame-work extending along the assemblage, relatively stationary contact structure stationarily supported by said skeleton framework, one or more pressure chambers disposed within the arc extinguishing assemblage, and a removable casing forming a portion of the wall of said one or more pressure chambers and removable from the assemblage from the opposite



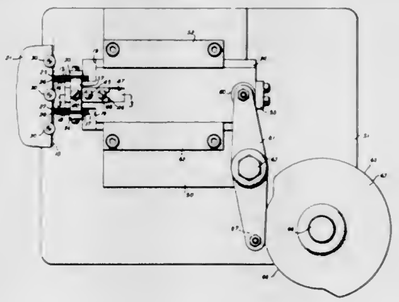
end thereof without disturbing the relatively stationary contact structure, the removal of the casing from the arc extinguishing assemblage permitting ready inspection to be had of the contact structure and also contact operation.

2,667,557

WIRE SEVERING APPARATUS

Carl Herzog, Belleville, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application April 12, 1950, Serial No. 155,520
3 Claims. (Cl. 219—1)

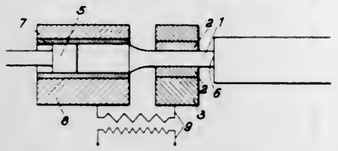


1. An apparatus for severing closely positioned wires bonded together by beads at regularly spaced intervals to produce a continuous string of beads each having lead wires extending in opposite directions from the bead comprising movable means to support the wires and advance them longitudinally in closely disposed parallel paths, means supported for movement through operating cycles in a given path toward and away from the paths of the wires, a pair of contacts for each wire having wire engaging edges and mounted on said means supported for movement and spaced from each other longitudinally of the paths of the wires and each pair opposite its respective wire, and circuits for the contacts supplied with electrical currents of sufficient amplitude to burn the portions of the wire engaged by the edges of the contacts in each pair and completing the circuits therebetween.

2,667,558
UPSETTING OF ELECTRICALLY HEATED RODS

Gustav Aeckersberg, Dusseldorf, and Karl Anton Nilgen, Dusseldorf-Oberkassel, Germany, assignors to Maschinenfabrik Hasenclever A.-G., Duesseldorf, Nordrhein-Westphalia, Germany, a corporation of Germany

Application March 29, 1952, Serial No. 279,436
Claims priority, application Germany April 6, 1951
9 Claims. (Cl. 219—3)

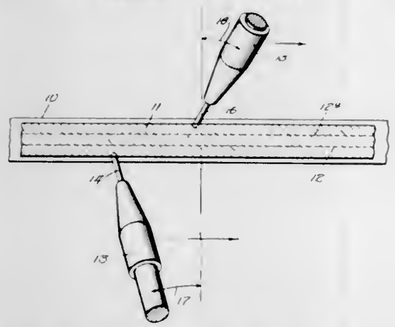


9. A method of swaging a metallic rod or the like, comprising the steps of moving the end face of said rod into contact with an abutment member, guiding the rod at an intermediate portion thereof, heating the part of the rod between said end face and said intermediate portion to upsetting temperature, exerting on the rod a degree of pressure sufficient to cause upsetting of the heated end part of the rod, and moving the abutment axially of the rod and in the direction of the applied pressure, while confining the upset portion of the rod within a predetermined outline, whereby upon continued movement of the abutment, the heated portion of the rod is swaged to the said predetermined outline.

2,667,559
METHOD OF WELDING

Perry C. Arnold, Chicago, Ill., assignor to Chicago Bridge & Iron Company, an Illinois corporation

Application May 4, 1951, Serial No. 224,576
8 Claims. (Cl. 219—10)

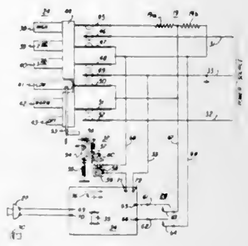


1. In the process of submerged arc electric welding of a generally horizontal joint between upright plates, the method which comprises: mounting a carriage on the upper plates to carry a welding head along the joint, correlating the rate of travel of the carriage to the fusion of an electrode carried at the joint by the carriage to deposit a weld bead substantially larger than the welding electrode, directing the electrode downwardly and rearwardly toward the joint to permit expanding gases to carry metal being deposited toward previously deposited metal and upwardly in the joint into freezing contact with the upper plate, and fusing the so deposited weld bead by such directing to both the upper and lower plates with the bead having a root width substantially smaller than its outer width to provide cooling of the bead from the root of the joint outwardly avoiding faults in the deposited metal.

2,667,560
HEATING CIRCUIT CONTROL FOR ELECTRIC APPLIANCES

William C. Clark, Owensboro, Ky., assignor to General Electric Company, a corporation of New York

Application December 5, 1952, Serial No. 324,360
12 Claims. (Cl. 219—20)



12. In a cooking appliance including a heating unit, a controller having an off position and a high position and a low position, means responsive to operation of said controller into its respective high and low positions for supplying heat to said heating unit at respective high and low rates, and manually operable means for selectively operating said controller; the combination comprising a transducer operative in response to sound produced as a result of vigorous cooking of the contents of a vessel operatively associated with said heating unit, mechanism operative to operate said controller from its high position into its low position, means responsive to operation of said controller from its off position into its high position for preparing said mechanism, and means responsive to operation of said transducer for operating said prepared mechanism.

2,667,561
ELECTRIC SOLDERING IRON

Alexander Schoenwald, Grove City, Pa., assignor to P. Wall Mfg. Company, Grove City, Pa., a corporation of Pennsylvania

Application April 3, 1952, Serial No. 280,242
3 Claims. (Cl. 219—26)

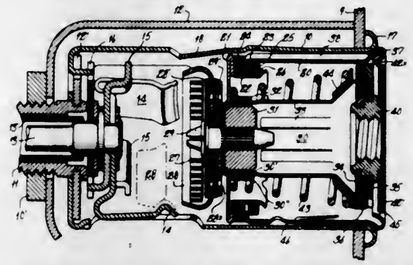


1. An electrical soldering iron comprising a tubular holder, a soldering tip carried by the forward end of the holder, insulating members within the holder and having perforations extending longitudinally thereof, conductor members protruding from the rear end of the insulating members, at the rear end of the holder, a resistance-type heating element enclosed within the tip, and conductors within the perforations and connecting the first-named conductor elements to the resistance heating element, the said element being of ribbon form pleated crosswise.

2,667,562
CIGAR LIGHTER

Philip E. Ashton, Meriden, Conn., assignor to The Cuno Engineering Corporation, Meriden, Conn., a corporation of Connecticut

Original application July 25, 1946, Serial No. 686,188. Divided and this application January 10, 1950, Serial No. 137,747
7 Claims. (Cl. 219—32)

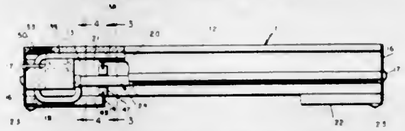


1. An electric lighter plug comprising a shell formed of two parts, an outer part being cylindrical for sliding in a socket and having an inturned flange at its front end, the other part of the shell having an end disc, a ring carrying insulating washers on opposite sides of the inturned flange and also having a tubular guide portion, the rim of said disc constituting the sion spring surrounding said plunger member comprising a body of tubular form slidable in the tubular guide portion of the shell and having an outwardly flaring portion, an insulating disc secured in the latter portion and guiding the plunger in the outer shell part, a compression spring surrounding said plunger member between said discs, knob mounting means secured in said insulating disc and an igniter element secured at one end of the tubular body portion of the plunger.

2,667,563
ELECTRIC RADIANT HEATING

Joseph McOrlly, Wilkinsburg, Pa., assignor to Edwin L. Wiegand Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application February 17, 1951, Serial No. 211,557
3 Claims. (Cl. 219—34)

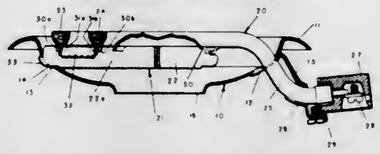


2. An electric radiant heater comprising an elongated housing open at one side to provide a heating element receiving cavity, a pair of mounting members disposed in longitudinally spaced relation within said cavity, said members each having an elongated guide recess and an elongated guide slot disposed in spaced substantially parallel relation, said guide recesses and slots being respectively open and closed at their inner ends in respect to the ends of said housing, an elongated heating element carried by said members within said cavity, and a pair of tongue members secured to the opposite ends of said heating element for connecting said heating element to a source of electric current, the free ends of said tongue members slidably engaging said mounting member recesses for removably securing said heating element to said mounting members and to compensate for longitudinal expansion and contraction of said element, and retractable stop means fitting within said slots when in locking position to prevent inadvertent removal of said heating element, and being withdrawable from said slots to provide for removal of said heating element.

2,667,564
ELECTRIC HEATING

Harry C. Cunningham, Pittsburgh, Pa., assignor to Edwin L. Wiegand Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application August 15, 1950, Serial No. 179,424
6 Claims. (Cl. 219—37)

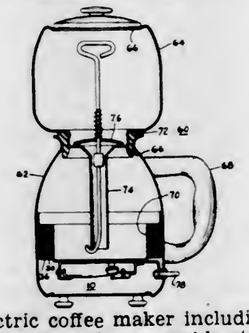


6. An electric heating unit comprising an assembly including a frame and heating element means overlying said frame and carried thereby, said heating element means including an active portion upon which the object to be heated is adapted to rest and terminal means extending angularly outwardly and downwardly from said active portion, a bowl-like reflector having an aperture in its side wall, resilient means positioned to generally block free access through said aperture, said reflector having also an inwardly extending horizontal ledge surface, said assembly being assembled with said reflector by tilting the former relative to the latter and moving said terminal means through said aperture to extend outwardly of said reflector, and thereafter lowering said assembly to operative position within said reflector and in supported relation on said ledge surface, movement of said assembly to operative position causing engagement of said terminal means with said resilient means and flexing of the latter to urge said assembly to shift along said ledge, and latch means interengaged by such shifting movement.

2,667,565
THERMOSTATIC CONTROL FOR COFFEE MAKERS

William B. Wallower, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 20, 1950, Serial No. 201,837
9 Claims. (Cl. 219—43)



6. An electric coffee maker including a vessel, a first heating element, a second heating element, and a thermostatic control comprising a first set of contacts controlling said first heating element, a second set of contacts controlling said second

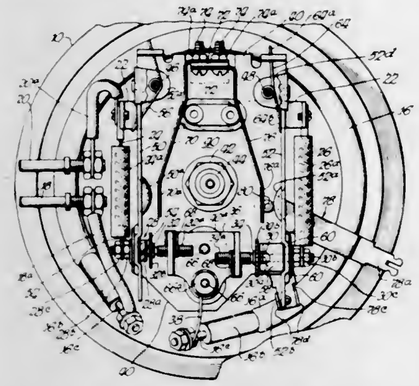
heating element, and a snap-acting bimetal member for opening and closing said contacts, said bimetal member being adapted to flex with a snap action in contact-opening direction to a first position of curvature when initially heated to a temperature sufficient to permit the brewing operation to be completed and to reflex with a snap action in contact-closing direction to a second position of opposite curvature at a substantially lower temperature, said bimetal member being further adapted after movement to said first position to move with a creeping action within a zone defined by said first position and a third position of lesser curvature than said first position when said member is cooled to a temperature between said brewing temperature and said lower temperature, said first set of contacts being positioned to be opened by said bimetal member upon snap-acting movement to said first position, said second set of contacts being positioned to be opened by the bimetal member upon movement past a point disposed between said first position and said third position in contact-opening direction and to be closed by the bimetal member upon movement past said point in contact-closing direction, whereby said first and second heating elements are deenergized by said member upon snap-acting movement to said first position and said second element alone is thereafter intermittently energized and deenergized by the creeping action of said member.

2,667,566

LOWER BOWL CONSTRUCTION FOR VACUUM TYPE COFFEE MAKERS AND SWITCH THEREFOR

Alfred J. Huck and Charles D. Visos, St. Louis, Mo., assignors to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware

Application March 9, 1953, Serial No. 341,248
4 Claims. (Cl. 219—43)



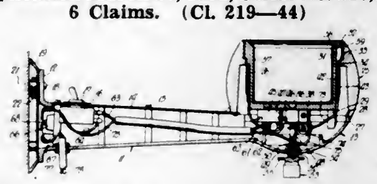
1. In a coffee maker of the vacuum type having a lower bowl and an upper bowl, the improvement comprising: a heater for the lower bowl; energizing means including a pair of relatively movable switch contacts operable when closed to energize the heater; a permanent magnet on one contact; a magnet keeper on the other contact; spring means biasing the contacts to spaced relation but incapable of overcoming the magnet attraction; a bimetal arm; a support post affixed to the bottom of the lower bowl and supporting the bimetal in position to urge the contacts to spaced relation with increased temperature and to open the contacts when the temperature of the lower bowl exceeds water-boiling temperature, the effective thermal capacity of the support post and bimetal being so related to their heat conducting ability and heat losses as to cause the bimetal to continue flexing after the contacts separate.

2,667,567

ART OF HEATING DEVICES

Emil Buehler, North Haledon, N. J., assignor to American Aerovap, Inc., a corporation of New York

Application March 27, 1951, Serial No. 217,858
6 Claims. (Cl. 219—44)



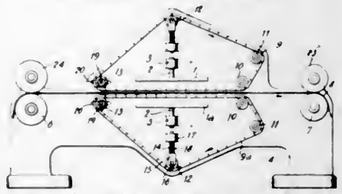
1. Equipment of the character described comprising a bracket arm having a mounting plate unitary therewith at one end thereof and an inverted dome portion at the opposite end thereof, the mouth of said dome lying in a plane at right angles to that of said mounting plate, a hollow casing mounted on said dome, said casing and said dome defining a holder, a substantially cup-shaped heating receptacle in said holder, said receptacle having shoulder portions rigid therewith and said casing having an inwardly extending flange seating said shoulder portions, whereby when said receptacle is affixed to said dome the casing will be retained on the latter, a thermostat mounted on the under surface of the floor of said receptacle above the inner surface of said dome, said thermostat having a control shaft extending through an opening in said dome, said control shaft having a fluted end, so that an adjustment tool having an internally fluted cylindrical extension adapted to coact with the fluted end of said shaft may serve to adjust the thermostat.

2,667,568

APPARATUS FOR TREATING GLASS FIBER CLOTH

Albert Férier, Geneva, Switzerland

Application March 8, 1950, Serial No. 148,308
Claims priority, application Switzerland June 20, 1949
1 Claim. (Cl. 219—47)



Apparatus for the treatment of glass fibre cloth, comprising a source of high frequency electrical power, electrodes connected to said source, at least one endless movable member arranged to pass through a high frequency electrical field set up between said electrodes, said member comprising material having, in the cold state, a greater coefficient of dielectric loss than the glass of which said cloth is made, feeding means for passing said cloth in the vicinity of a preheated portion of said endless movable member prior to the passage of said cloth through a high frequency electrical field set up between said electrodes, and variable means for extending said movable member to a predetermined extent in advance of said high frequency electrical field for controlling the length of the path through which said cloth travels and is preheated therein, prior to its passage through said electrical field.

2,667,569

DETACHABLE LIGHT FOR MOTOR TRUCKS AND TRAILERS

Joseph Lethcoe, Springfield, Ohio

Application October 28, 1949, Serial No. 124,175
1 Claim. (Cl. 240—8.3)



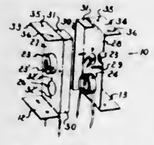
A detachable safety light feature for mounting on vehicles to indicate clearance in forward and rearward directions and a reflector stop light for reflecting light in a rearward direction, said light fixture comprising an elongated standard having an expanded circular opening intermediate the ends thereof, a tubular head band on one end of said standard having an axis disposed substantially parallel to the axis of said circular opening, illumination means for indicating clearance positioned in said head band adapted to simultaneously emit light forwardly and rearwardly of said standard, a light reflector means in said circular opening for reflecting light rearwardly of said standard, a C-shaped bracket comprising a pair of spaced parallel jaw members joined integrally by a back member, each of said spaced jaw members and back member having a threaded aperture extending therethrough receiving a set screw therein, the back member of said C-shaped bracket being connected to the other end of said standard and one of said set screws in combination with one of said jaw members comprising means for adjustably attaching said bracket to a supporting base on a vehicle.

2,667,570

MOUNTING BRACKET FOR TUBULAR LAMPS

Harold H. Goldthorpe, Cleveland, Ohio, assignor to General Electric Company, a corporation of New York

Application May 5, 1951, Serial No. 224,755
1 Claim. (Cl. 240—51.11)



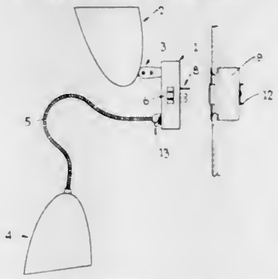
A bracket for supporting an elongated tubular lamp and a lamp shielding member on a wiring channel, said bracket comprising two sheet metal strip-like members having their respective end portions extending at right angles to the center portion and in the same direction, the center portion of each strip having a longitudinal edge thereof folded in the opposite direction from said end portions and shaped to engage the center portion of the other of said strips to space said strips, means to fasten said strips together to form a hollow bracket having flanges extending in opposite directions at each end thereof for attachment to the wiring channel and to the lamp shielding member, and a lamp socket mounted on said bracket between its ends to support the lamp between said shielding member and said wiring channel.

2,667,571

PLUG-IN LIGHTING UNIT FOR DUAL POWER SUPPLY SYSTEMS

Kurt Versen, Tenafly, N. J.

Application September 30, 1949, Serial No. 118,753
2 Claims. (Cl. 240—73)



1. A composite electrical unit for the unification of lighting requirements comprising in combination, a substantially small and flat container having a front face, rear face and sides, an electrical terminal block within said container, a plurality of pairs of binding posts on said terminal block, each pair of binding posts consisting of first and second electrically connected binding posts, a plurality of electrical members comprising a lamp member secured to the front face of said container and an electrical outlet member on a side of said container, each of said members being electrically connected from a first binding post of one pair of binding posts to a first binding post of another pair of binding posts, a plurality of short changeable electrical conductors each engageable with a second binding post of one pair of binding posts and a second binding post of another pair of binding posts, at least a pair of prong members extending outwardly of the rear face of said container, conductors leading from one of said prong members to a second binding post of one pair of binding posts and from another prong member to a second binding post of another pair of binding posts, a main electrical outlet for said prongs said main outlet containing electrically conductive sockets for each prong, said prongs being detachably insertable into said sockets, an electrically conductive retaining means engageable with said container and said main outlet for securing said container to said outlet.

2,667,572

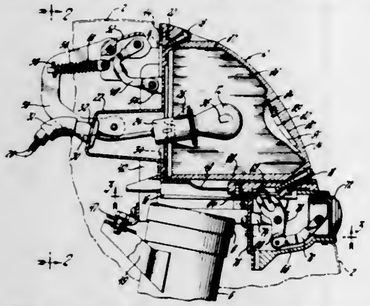
TAIL LAMP LENS

Howard C. Mead and George W. Onksen, Jr., Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original application February 21, 1949, Serial No. 77,494. Divided and this application March 1, 1950, Serial No. 157,983
1 Claim. (Cl. 240—106)

A lens body comprising an external surface which is asymmetrical with respect to a

focal axis in a vertical plane through said lens and axis, and an inner surface which is formed by a plurality of continuously curved light collimating surfaces concentrically disposed about said axis and by continuously curved annular connecting surface means, each of said plurality of curved surfaces being formed by surface elements intersecting said axis at different places along said axis, each of said curved surfaces having varying radii of curvature relative to the



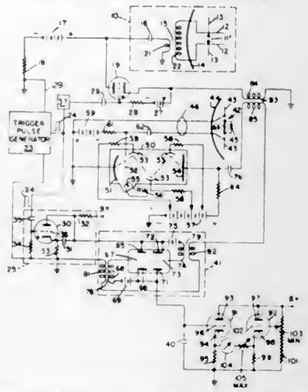
focal axis, a centrally disposed button surrounded by said continuously curved surface means and said annular connecting surface means, said annular connecting surface means being formed between said plurality of surfaces and having the surface elements thereof extending substantially in parallel relation to said focal axis, said plurality of curved surfaces and and said external surface being in dioptric agreement to collimate light from a point source on said focal axis.

2,667,573
ELECTRON TUBE SOCKET WITH REPLACEABLE BY-PASS CAPACITORS
David Satinoff, Utica, N. Y., assignor to the United States of America as represented by the Secretary of the Air Force
Application June 13, 1952, Serial No. 293,490
2 Claims. (Cl. 250—16.4)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An electron tube socket comprising a body of insulating material, a plurality of holes in the top of said body corresponding in size and position to the base pins of an electron tube, each of said holes opening into a cylindrical recess coaxial therewith and extending through the bottom of said body, a removable sleeve of insulating material in each of said recesses, a contact element in each of said sleeves, said contact element having means to contact the base pin of an electron tube and also having means to contact the inner surfaces of said sleeves, the outer ends of said sleeves and contact elements being flush with the bottom of said socket body, an electrical ground contact in each of said recesses and in contact with the outer surfaces of said sleeves, at least one of said sleeves having its inner and outer surfaces coated with metallic films to form a condenser, and means for retaining said sleeves and said contact elements in said socket body, said means comprising a retaining plate of insulating material, a metallic pin having a shank portion and a head portion, said plate being rotatably mounted on said shank next to said head portion, said shank portion having its end terminated in a pair of diametrically opposite outwardly extending ears, a coil spring in compression positioned around said shank between said ears and said head portion, a centrally located passageway through said socket slightly larger than said spring and having oppositely disposed longitudinal grooves to permit passage of said ears, a metallic insert in the top end of said passageway, a passageway through said insert large enough to permit passage of said shank portion but small enough to prevent passage of said spring, said insert having the grooves of said body passageway continued therethrough and notched sidewise at a point in said insert to permit rotation of said ears through approximately ninety degrees, whereby said pin may be locked in said socket body and thereby fasten said plate to the bottom of said socket body, the size and shape of said plate being such as to overlap at least a portion of the exposed ends of said sleeves and said contact elements.

2,667,574
RADIO RECEIVER SYSTEM
Edwin E. Turner, Jr., West Roxbury, Mass., assignor to Raytheon Manufacturing Company, a corporation of Delaware
Original application November 29, 1947, Serial No. 788,811, now Patent No. 2,496,900, dated February 7, 1950. Divided and this application April 26, 1949, Serial No. 89,603
3 Claims. (Cl. 250—20)



3. A receiver for electromagnetic radiation comprising a dipole antenna, a unidirectional conductor connected directly across the output of said antenna, a resistor connected directly in shunt with said unidirectional conductor, and an amplifier having its input connected across said resistor.

2,667,575
RADAR RECEIVER DISPLAY SYSTEM
Robert P. Haviland, Scotia, N. Y.
Application March 29, 1949, Serial No. 84,241
2 Claims. (Cl. 250—27)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a radar receiver, a limiting amplifier tube having a plate, a grid and a cathode; a detector tube, an inductance and a first condenser connected in series and coupled to the grid of said limiting amplifier tube; a second condenser one side of which is connected to ground and the other side between the detector tube and the inductance; a first resistor, a second resistor, one end of the first resistor being connected between the inductance and first condenser and the other end being connected to the second resistor, the latter's opposite end being connected to ground; a third resistor one end of which is connected between the first condenser and the grid of the limiting amplifier tube and the other end of which is connected to ground; a fourth resistor, one end



of which is connected to the cathode of the limiting amplifier tube and the other end of which is connected to ground; a third condenser connected in parallel with the fourth resistor; a fifth resistor, one end of which is connected to said cathode; and a relay switch having a movable contact connected to ground, and having first and second fixed contacts, said first contact being connected between said first and second resistors, said second contact being connected to the other end of said fifth resistor.

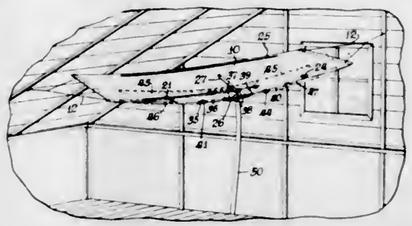
2,667,576
FREQUENCY DISCRIMINATOR CIRCUIT
Leo Staschover, Jamaica, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application May 26, 1950, Serial No. 164,317
3 Claims. (Cl. 250—27)



1. A frequency discriminator for frequency modulated waves comprising a network having at least a first, second, and third terminal including two circuits each tuned to the center frequency of said waves, the elements of each one of said circuits being independent of magnetic coupling with the elements of the other circuit, and means impedance-coupling said circuits, means for applying a frequency modulated wave across a first and second terminal of said network comprising a closely coupled transformer having substantially unity coupling, means for directly applying said wave to the electrical mid-point between said second and third terminals, and rectifiers coupled to said second and third terminals.

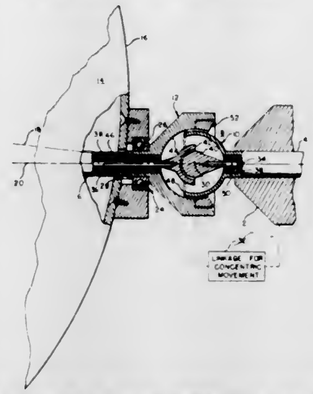
2,667,577
ANTENNA
Victor Graziano, Oak Park, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application July 14, 1951, Serial No. 236,743
8 Claims. (Cl. 250—33)

1. An antenna system for receiving wide band signals in two non-contiguous frequency ranges including in combination, web means formed of insulating material, conducting portions on said web means forming first and second dipole antennas for individually receiving signals in said two frequency ranges, each of said dipole antennas having two opposed arms each including a plurality of spaced conducting portions and conducting means spaced from adjacent conducting portions forming condensers which interconnect said adjacent conducting portions, each of said arms having a length greater than one-half wave length and less than one wave length of the highest frequency to be received thereby, each of



said conducting portions having a length less than one-quarter wave length of the highest frequency to be received thereby, and means interconnecting said antennas and including terminals for receiving signals picked up by said antenna system.

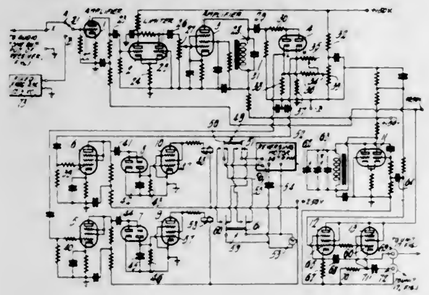
2,667,578
SWIVEL JOINT FOR COAXIAL TRANSMISSION LINES
Wilford J. Barnett, Venice, and Clarence G. Carlson, Inglewood, Calif., assignors to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application January 31, 1950, Serial No. 141,564
3 Claims. (Cl. 250—33.65)



1. An antenna reflector assembly comprising: a frame member; a first coaxial line section having an inner and an outer conductor, said first coaxial line section being connectable to a source of high frequency electromagnetic energy; means securing the outer conductor of said first line section to said frame member; a second coaxial line section having an inner and an outer conductor; a swivel joint capacitively coupling said first and second line sections for passing high frequency elecetrical energy therebetween, said joint comprising two pairs of spaced spherical mating elements having a common phantom center, one pair of said mating elements being connected to the inner conductors of said first and second line sections, respectively, and the other pair of said mating elements being connected to the outer conductors of said first and second line sections, respectively; an antenna reflector for radiating said energy mechanically coupled to the outer conductor of said second line section; and linkage means coupled between said frame

member and the outer conductor of said second line section to mechanically support said reflector and said second line section for nutational movement relative to said first line section about said phantom center.

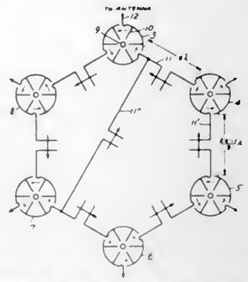
2,667,579
FREQUENCY CONTROL SYSTEM
John B. Atwood, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 6, 1949, Serial No. 119,971
12 Claims. (Cl. 250—36)



1. A frequency control system for an oscillator, comprising a single tuned circuit responsive to an alternating input wave for producing therefrom an alternating voltage the amplitude of which varies with the frequency of said wave, means coupled to said tuned circuit and responsive to frequency-dependent produced alternating voltages of peak amplitude above a first threshold value for deriving therefrom a first potential, means coupled to said tuned circuit and responsive to frequency-dependent produced alternating voltages of peak amplitude above a second threshold value for deriving therefrom a second potential, a motor for driving a frequency-determining element in the oscillator to be controlled, and means controlled by said first and second potentials to complete an energizing circuit of one relative polarity for said motor in response to the presence of both such potentials, to complete an energizing circuit of the opposite relative polarity for said motor in response to the absence of both such potentials, and to disconnect the motor from its source of energy in response to the presence of one such potential and the absence of the other such potential.

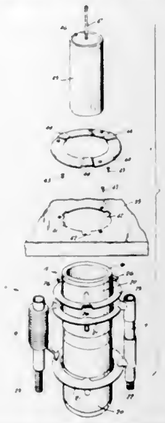
2,667,580
MAGNETRON WITH VALENCE ELECTRODE
Charles V. Litton, Redwood City, Calif.
Application October 20, 1949, Serial No. 122,391
8 Claims. (Cl. 250—36)

1. An arrangement for the production of ultra high frequency energy of high power with means for stabilizing the frequency of oscillations comprising a plurality of oscillators each having a plurality of resonators and output coupling units from more than two of said resonators, one of said coupling units of each of said oscillators being an output load coupling unit, an ultra high frequency transmission path connecting each of the remaining coupling units of each of said oscillators to a remaining coupling unit of another oscillator, said transmission paths and said coupling units being matched to said resonators and having a length a multiple of a half wave length such that no energy is exchanged between



the resonators when they are oscillating at the same frequency.

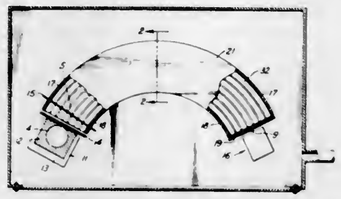
2,667,581
TUNING DEVICE FOR SIGNAL RECEIVERS
Werner F. Auerbacher, Bronx, and Seymour Napolin, Willison Park, N. Y., assignors to Pilot Radio Corporation, Long Island City, N. Y., a corporation of New York
Application September 21, 1951, Serial No. 247,656
14 Claims. (Cl. 250—40)



1. A circuit tuning unit comprising, in combination, an elongated dielectric member, at least a pair of conductive metal surfaces arranged in longitudinallly spaced relation on one surface of said member, a conductive metal element mounted for relative movement longitudinally of said member adjacent the opposite surface of the latter, means operatively connected to said element and constructed and arranged to effect such relative longitudinal movement to vary the capacity of such unit, trimmer condenser means, and means mechanically and electrically connecting said condenser means to a pair of such spaced metal surfaces.

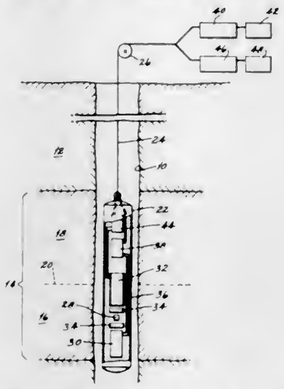
2,667,582
MASS SEPARATOR
John G. Backus, Los Angeles, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application February 27, 1948, Serial No. 11,729
7 Claims. (Cl. 250—41.9)

1. A mass separator comprising a source of ions, an ion current receiver, a beam of ions traversing an arcuate path therebetween and means including at least four curved electrodes parallel to and symmetrically disposed about said ion



beam path for establishing a uniform, cylindrical electrical field for focusing ions emitted from said ion source at said ion receiver.

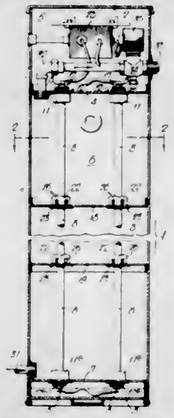
2,667,583
ANALYSIS OF SUBSURFACE FORMATIONS BY RADIOACTIVITY
Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application February 3, 1951, Serial No. 209,239
6 Claims. (Cl. 250—43.5)



1. The method of logging a bore hole to determine whether a formation traversed by the hole contains salt water or hydrocarbon oil, which comprises bombarding said formation with neutrons from a source passed through the bore hole, measuring in the vicinity of said source neutrons of relatively low energy scattered in the formation and returned to the hole, simultaneously measuring also in the vicinity of the source neutrons of relatively high energy which are scattered in the formation and return to the hole, and comparing the measured intensities of the neutrons of both low and high energies as the source passes vertically through the formation being bombarded.

2,667,584
STERILIZING APPARATUS FOR LIQUIDS
John Cecil Rhodes, Jenkintown, Pa., assignor to Rhodes Research Corporation, Jenkintown, Pa., a corporation of Pennsylvania
Application November 24, 1948, Serial No. 61,825
7 Claims. (Cl. 250—45)

1. In water sterilizing apparatus comprising a tank having spaced transverse partition members defining therebetween a tube compartment in said tank, a plurality of germicidal lamp tubes extending longitudinally in said compartment, at least one baffle member extending transversely of the tank within the tube compartment and having openings therein for the passage of said tubes, each of said openings being of greater diameter than the external diameter of the tube passing therethrough, fittings for supporting said tubes in said baffle openings and each comprising a tubular body portion having a greater internal diameter than the external diameter of the tube passing through said fitting and an external diameter corresponding substantially to the diameter of the baffle opening, said body portion extending substantially parallel to and in spaced relation from the surface of said tube to permit flow of water between said tube and said body portion and having one end secured in fluid tight relation to the portion of the baffle member surrounding said baffle opening, said body portion having its opposite end

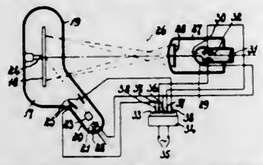


spaced a substantial distance from the plane of said baffle member, the wall of said body portion having lateral openings therethrough located between the baffle member and said opposite end of said body portion, said fittings each including an imperforate end wall extending inwardly from said opposite end of said body portion and embracing the surface of the tube in fluid tight relation, said imperforate end wall causing the water abruptly to change its direction of flow as it flows through said fitting from one side of said baffle member to the other side thereof thereby creating turbulence within said fittings and causing all particles of the water to pass closely adjacent said tubes to effect maximum sterilization, an inlet for water to said compartment at one end thereof, an outlet for water at the other end of said compartment, and means to supply an electric current to said germicidal tubes.

2,667,585
DEVICE FOR PRODUCING SCREENING IMAGES OF BODY SECTIONS
Stephan Gradstein, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application January 14, 1952, Serial No. 266,373
Claims priority, application Netherlands February 15, 1951
7 Claims. (Cl. 250—61.5)

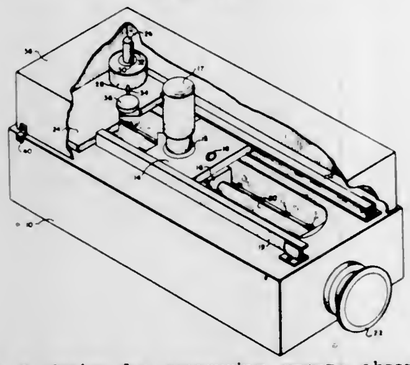
1. A device for producing images of a thin section of a stationary object, comprising a source of X-radiation disposed on one side of said object, means for moving said source along a path lying in a flat plane, a stationary image carrier disposed on the other side of said object for receiving the X-radiation after it has passed through said object, said image carrier comprising a

photo-cathode for converting the X-ray image produced when the X-radiation traverses said object into an electron image, a fluorescent screen for converting the electron image into a visible image, and electron-optical means for deflecting



the electrons produced by the photo-cathode in accordance with the position of said source to produce on the fluorescent screen a fixed corresponding image of the thin section as the source of X-radiation moves relative thereto.

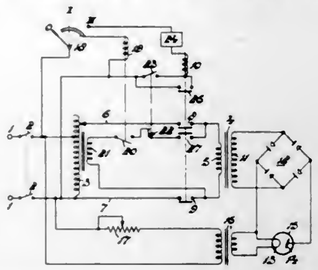
2,667,586
ENERGY PROPORTIONAL COUNTING OF EXTERIOR RADIATION
Hartmut Kallmann, New York, N. Y., assignor to the United States of America as represented by the Secretary of the Army
Application July 3, 1951, Serial No. 235,086
7 Claims. (Cl. 250—71)
(Granted under Title 35, U. S. Code (1952), sec. 266)



2. A device for measuring energy absorbed from a radiation field comprising, scintillating means sensitive to radiation, counting means for counting light flashes emitted by said scintillating means, and means for varying for the amount of interaction of said scintillating means and said counting means until, at most, one count is registered each time a quantum of energy which has the maximum energy of the quanta in said radiation field excites said scintillating means and lesser quanta of energy have a proportionally smaller probability of causing said counting means to similarly register when said lesser quanta excite said scintillating means.

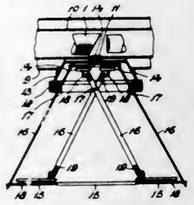
2,667,587
PROTECTING DEVICE FOR X-RAY APPARATUS
Alfred Kuntke, Hamburg-Wellingsbuttel, and Heinz Mester, Hamburg, Germany, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 1, 1951, Serial No. 259,408
Claims priority, application Germany December 15, 1950
4 Claims. (Cl. 250—95)

1. An X-ray diagnostic apparatus comprising an X-ray tube including an anode and incandescent cathode, a high-voltage transformer coupled to said tube and including a primary winding, first means for applying a heating current to said cathode, second means for applying a given operating potential to the primary winding of said transformer, third means for applying a potential which is lower than said given potential to the primary winding of said transformer, first current-responsive means coupled to said tube and responsive to the current flow there-



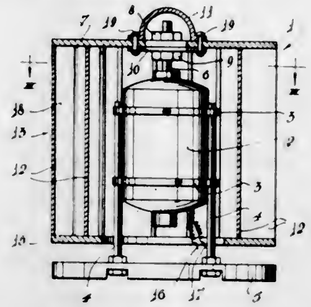
through when said lower potential is applied to said primary winding, second current-responsive means responsive to actuation of said first current-responsive means when emission from said cathode reaches a given value for connecting said second means to said primary winding, and timing means operatively associated with said second current-responsive means for determining the duration of the application of said given operating potential to said primary winding.

2,667,588
BEAM-LIMITING DIAPHRAGM FOR X-RAY TUBES
Karl Oswald, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 4, 1952, Serial No. 274,765
Claims priority, application Netherlands March 10, 1951
2 Claims. (Cl. 250—105)



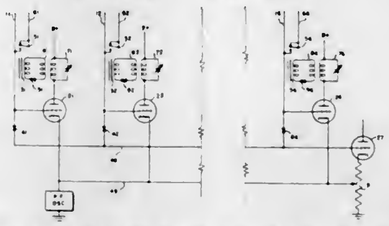
1. A limiting diaphragm for the X-ray beam of an X-ray tube, comprising a first two pairs of displaceable radiation-opaque plates disposed adjacent said tube and defining a small aperture, a second two pairs of displaceable radiation-opaque plates disposed on the side of said first two pairs remote from said tube and defining a larger aperture than said small aperture, and a plurality of coupling rods each interconnecting a plate of said first two pairs located on one side of said X-ray beam to a plate of said second two pairs located on the other side of said X-ray beam, said coupling rods being pivotable about points lying in a plane at right angles to the axis of the X-ray beam and disposed between said first and second two pairs of plates, whereby the interconnected plates move in opposite senses relative to the beam axis when the size of the apertures is varied.

2,667,589
FLUID OPERATED POWER GENERATOR
Hugo Armando Levrero, Montevideo, Uruguay
Application January 21, 1952, Serial No. 267,471
7 Claims. (Cl. 290—55)



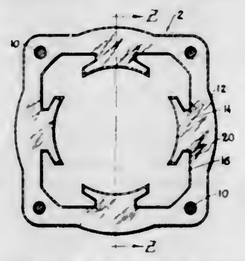
1. A wind operated power generator comprising an electric current generator having a driving shaft emerging out of said generator, a rotary fan consisting of a plate and a plurality of spaced blades supported by said plate, said fan being mounted on said driving shaft and said blades surrounding said generator, each pair of adjacent blades of said plurality of blades forming a channel having an admission opening and an exit opening for the wind, said exit openings being directed toward said generator, said plurality of spaced blades being capable of capturing the wind and transforming its energy into a rotary movement.

2,667,590
MAXIMUM VOLTAGE SELECTOR
Edwin Langberg, Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of the Army
Application January 6, 1953, Serial No. 329,760
3 Claims. (Cl. 307—80)



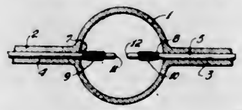
3. In a voltage sensitive device for comparing a plurality of voltages, a plurality of voltage inputs, a plurality of rectifiers, the positive terminals of said rectifiers connected to said inputs, the negative terminals of said rectifiers connected together in a first common bus, a cathode follower, said first common bus connected to the grid of said cathode follower, a voltage divider as the cathode load of said cathode follower, a plurality of vacuum tubes having at least a grid, cathode and anode, the cathodes of said vacuum tubes connected together in a second common bus to the voltage dividing tap of said voltage divider, one of said inputs connected to a grid of each of said vacuum tubes, a source of alternating current connected to said second bus, a tuned circuit responsive to the frequency of said alternating current connected to each of said plate circuits, a coil indutcively coupled to each of said tuned circuits, a rectifier and electromagnetic relay connected across each of said coils, a switch actuated by each of said relays, an output circuit associated with each of said relays, said switch connecting one of said inputs to a corresponding output circuit when actuated by said relay.

2,667,591
STATOR FOR ELECTRICAL MACHINES
Frank H. Gindroz, Lawndale, Calif., assignor to Electrical Engineering and Manufacturing Corporation, Los Angeles, Calif., a corporation of California
Application February 18, 1953, Serial No. 337,601
3 Claims. (Cl. 310—254)



1. A stator for an electric machine of the type having a stator and a rotor, comprising a metallic structure having interior and exterior surfaces and having pole pieces having facing arcuate surfaces which are adjacent the external surface of the rotor in the assembled condition of the machine, and a thin, impervious coating of aluminum covering all of the interior and exterior surfaces of the stator except said arcuate surfaces of the pole pieces.

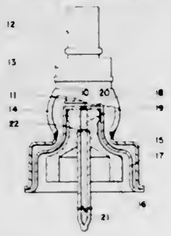
2,667,592
ELECTRODE FOR COMPACT TYPE ELECTRICAL DISCHARGE DEVICES
David L. Hilder, Allentown, Pa., assignor to Hanovia Chemical and Manufacturing Company, Newark, N. J., a corporation of New Jersey
Application January 11, 1951, Serial No. 205,550
1 Claim. (Cl. 313—39)



A compact type electrical discharge device and electrode structure therefore, comprising a substantially spherical vitreous envelope defining a discharge chamber and having a pair of tubular vitreous extensions projecting outwardly therefrom, said discharge chamber containing an ionizable atmosphere, a pair of tungsten rods, each of said rods having a length equal to at least three times the length of the inside radius of said envelope, a major portion of each of said rods being contained and sealed by each of said extensions, a minor portion of each of said rods extending into said discharge chamber, said minor portions being spaced from each other for supporting a discharge arc, each of said minor portions comprising a main electrode, a first and second auxiliary electrode supported on said main electrode in electrical contact therewith, said second auxiliary electrode being a tungsten wire coil coaxial with said main electrode and the diameter of the wire of said coil being less than the diameter of said main electrode, said second

auxiliary electrode being spaced from the free end of said main electrode, said first auxiliary electrode being a wire coil formed from a metal selected from the group consisting of tungsten and tantalum, the wire of said first auxiliary electrode being of less diameter than that of said second auxiliary electrode, said first auxiliary electrode being positioned on and coaxial with said main electrode between the inner wall of said envelope and at least part of the windings of said second electrode, a transverse groove at least partly circumferential about said main electrode and spaced from the end of said main electrode at a distance at least twice the diameter of said main electrode, a portion of said second electrode being recessed in said groove and thereby providing an increased thermal contact between said second auxiliary electrode and main electrode.

2,667,593
ELECTRON TUBE
Howard D. Doolittle, Stamford, Conn., assignor to Machlett Laboratories, Incorporated, Springdale, Conn., a corporation of Connecticut
Application November 22, 1950, Serial No. 197,040
3 Claims. (Cl. 313—244)



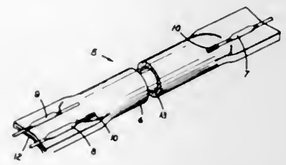
1. In an electron tube having planar anode and cathode electrodes within a vacuum envelope, an anode end portion of coaxial construction for said electron tube comprising an anode terminal ring, a solid anode block, a member forming a reentrant part of the tube envelope and extending between the anode terminal and the axial level of the active anode surface at which level it is fixed to the anode block, and a duct which passes through the anode block and emerges at the planar active anode surface thereby reducing the area of said anode surface by an amount which is small compared to the cathode area, the opposite end of said duct terminating in seal-off means.

2,667,594
ELECTRIC INCANDESCENT LAMP
Herman E. Hermanson, East Cleveland, and Fredrick S. Lamb, Cleveland Heights, Ohio, assignors to General Electric Company, a corporation of New York
Application January 2, 1951, Serial No. 203,837
6 Claims. (Cl. 313—274)



1. An electric lamp comprising a glass envelope, a mount within said envelope comprising an elongated filament and an elongated metallic stay member extending longitudinally of the filament and carrying support wires engaging and supporting the filament at spaced points therealong, said stay member comprising a metal channel provided at spaced points therealong with lateral deformations in at least one of its side walls, and glass beads insulatively fastening said support wires to said channel, said channel being of a metal incapable of readily forming an adherent bond with the glass of said beads, and said glass beads being shaped in situ in engaging and interlocking relation with the said deformations to mechanically hold the beads immovably in place on said channel against movement longitudinally as well as laterally thereof.

2,667,595
RIBBON LEAD CONSTRUCTION
Edward B. Noel, Cleveland Heights, and Paul A. Dell, Highland Heights, Ohio, assignors to General Electric Company, a corporation of New York
Application September 1, 1951, Serial No. 244,818
7 Claims. (Cl. 313—317)



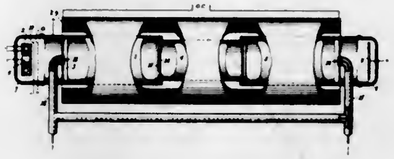
5. A high temperature operating lamp comprising an envelope of a high temperature resisting vitreous substance and leads sealed through said envelope and connected to electrical energy translating means therein, said leads comprising a length of wire of a highly refractory metal capable of withstanding the fusion temperature of said substance, said wire having an intermediate foliated portion of a thickness in the range from 5 to 10 ten thousandths of an inch, and a longitudinally elongated crystal orientation running smoothly throughout its length in general conformity with its external configuration, said envelope being bonded to said intermediate portion to provide a hermetic seal.

2,667,596
STORAGE ELECTRODE FOR SIGNAL-CONVERTING DEVICES
Constantin S. Szegho and William O. Reed, Chicago, Ill., assignors to The Rauland Corporation, a corporation of Illinois
Application November 15, 1950, Serial No. 195,834
3 Claims. (Cl. 313—346)



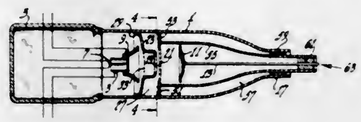
1. A storage electrode for a signal-converting device comprising: a conductive grid-like structure having a plurality of interstices; a thin dielectric film of substantially uniform thickness less than that of said grid-like structure distributed on a single surface of said conductive structure and extending into and across said interstices in substantially coplanar relation with said structure; and photoemissive material supported adjacent the exposed surface of said conductive structure.

2,667,597
VELOCITY MODULATED ELECTRON DISCHARGE DEVICE
Robert S. Bailey, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application June 14, 1948, Serial No. 32,945
1 Claim. (Cl. 315—3)



An electron discharge device comprising a wave guide, said wave guide being a plurality of guide wave lengths long, an antenna in said wave guide for establishing electromagnetic oscillations in said wave guide of a frequency above the cut-off frequency of said wave guide, windows in opposite ends of said wave guide offset laterally with respect to the longitudinal axis of said guide, an electron source at one end of said wave guide to release a stream of electrons into one window and hence to and through the other window, a drift tube and a catcher cavity aligned with said other window.

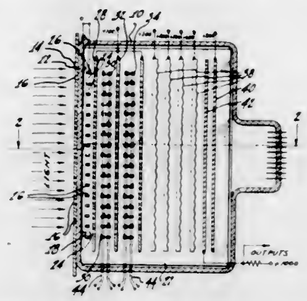
2,667,598
ELECTRON DISCHARGE APPARATUS UTILIZING A CAVITY RESONATOR
Ernest G. Linder, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 30, 1951, Serial No. 259,112
9 Claims. (Cl. 315—5)



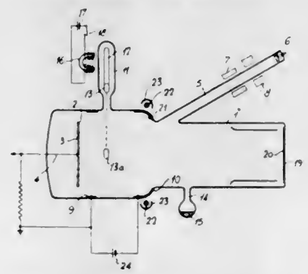
1. Electron discharge apparatus comprising a cathode and an electrode defining a beam path therebetween, an output cavity resonator having a gap surrounding an intemediate portion of said beam path, and an elongated tubular conductor surrounding said electrode and connected at one end to an outer part of said resonator, said resonator being formed with at least one aperture outwardly of said gap and opening into the space within said conductor and providing restricted electromagnetic coupling between said resonator and said space, said tubular conductor constituting the outer conductor of a coaxial line output terminal for said apparatus.

2,667,599
ELECTRONIC SWITCHING DEVICE
Jan A. Rajchman, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 22, 1951, Serial No. 216,959
20 Claims. (Cl. 315—11)

1. A switching tube comprising a translucent tube envelope enclosing a photocathode, a selecting grid adjacent said photocathode, electron multiplying means to multiply electrons passing through said grid and target means at the output of said electron multiplying means to collect electrons emitted from said electron multiplying means.



2,667,600
TELEVISION PICKUP TUBE
George Bernard F. Goff, Cambridge, England, assignor to Cathodeon Limited, Cambridge, England, a British company
Application November 27, 1951, Serial No. 258,347
5 Claims. (Cl. 315—11)

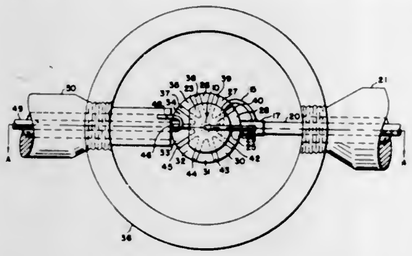


5. A television pick-up tube of the image iconoscope type and comprising a storage surface and a photo-cathode spaced apart in parallel relation within the tube envelope, in which said envelope comprises first and second portions respectively containing the storage surface and the photo-cathode, said end portions being connected together by a neck portion of smaller diameter than the first said end portion containing the storage surface so that the said first end portion has an internal annular shoulder where it joins the neck portion, a photo-sensitive coating as an annular coating on said shoulder facing substantially towards said storage surface, and an annular collector electrode in said first portion located between said photo-sensitive surface and said storage surface.

2,667,601
SLOT TYPE MAGNETRON
Edward M. Purcell, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application February 18, 1946, Serial No. 648,524
7 Claims. (Cl. 315—39)

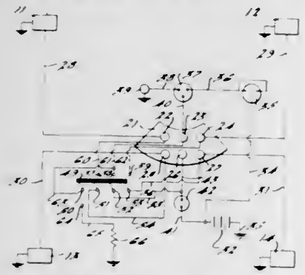
4. A magnetron comprising a cathode, an anode, said anode comprising a plurality of metallic blocks positioned about said cathode, adjacent sides of said metallic blocks forming a plurality of cavity resonators having parallel walls extend-

ing away from said cathode, and means for coupling high frequency energy from said magnetron



comprising a conducting means coupled to one of said metallic blocks.

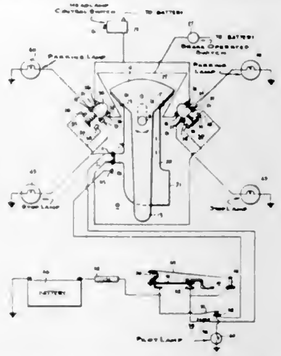
2,667,602
VEHICLE DIRECTIONAL SIGNAL SYSTEM
Albert E. Flemming, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 25, 1950, Serial No. 164,118
4 Claims. (Cl. 315—77)



1. In a vehicle including first and second light means, a directional indicating system comprising a source of electrical energy, switch means in said system for selectively energizing said light means, light flashing means in said system for raising and lowering the light intensity of said light means, said light flashing means being adapted to operate at a predetermined frequency in response to a predetermined current passing therethrough, and resistance means connected in said system so that the current passing therethrough passes through said light flashing means, said switching means being adapted to simultaneously energize all of said light means and disconnect said resistance means from said system.

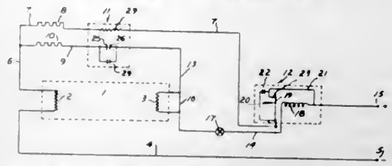
2,667,603
VEHICLE DIRECTIONAL AND EMERGENCY PARKING SIGNAL CONTROL SYSTEM
Jesse R. Hollins, Brooklyn, N. Y.
Application December 1, 1951, Serial No. 259,473
7 Claims. (Cl. 315—80)

1. A motor vehicle signalling control, comprising a pair of switches mounted in spaced relation to each other, each switch including a first pair of contacts each connectible to a signal lamp on one side of the vehicle, a second pair of contacts, and an operator normally engaged with said first pair of contacts and movable to a second position interconnecting each of the first pair of contacts to a corresponding contact of the second pair; a flasher connected to the vehicle electric energy source and having a main, normally open contact; a relay associated with said flasher and operable when said main contact is closed; said relay having an armature and a front contact normally disengaged by said armature; a grounded indicator lamp connected to said front contact; means connecting said armature to said energy source in shunt with said flasher; a selector lever movably mounted between said switches and operable to selectively engage either switch operator to move the same to said second position; a flare lever movably mounted between said switches and selectively operable to engage both switch operators simultaneously to move both thereof to said second position; and switch means associated with and operable by said flare lever and connected to each of said second pairs of contacts, said flasher main contact in series



with the operating coil of said relay, and to said relay front contact; said switch means, in the non-operated position of said flare lever, connecting both of said second pairs of contacts to said flasher main contact and, in the selectively operated position of said flare lever, connecting one pair of second contacts to said main contact and the other pair of second contacts to said front contact; whereby, when said selector lever is selectively operated, the signal lamps on one side of the vehicle will be flashed through said main contact, and when said flare lever is selectively operated, the signal lamps on one side of the vehicle will be flashed through said main contact and the signal lamps on the other side of the vehicle will be flashed through said front contact; said pilot lamp being flashed by said relay whenever either or both sets of signal lamps are flashed.

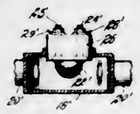
2,667,604
STARTING AND OPERATING CIRCUITS FOR FLUORESCENT LAMPS
William S. H. Hamilton, Larchmont, N. Y.
Application August 24, 1948, Serial No. 45,864
6 Claims. (Cl. 315—100)



1. In a system for supplying preheating and operating current from a supply line to a gaseous electric discharge device having two electrodes, at least one of which is constructed to

receive preheating current, a relay switch having normally closed contacts, said electrodes being connected to the terminals of the line circuit and one of said electrodes being connected thereto through the operating coil of said relay switch, two electrode preheating circuits each connected to heat the electrode to be preheated to firing temperature, said circuits being connected from one line terminal to the electrode to be preheated, the contacts of said switch being in one of said preheating circuits and the operating coil of said switch in the other preheating circuit, so that preheating current is supplied to said electrode through said normally closed switch contacts upon closing of the line circuit, a time delay device having normally open contacts, said contacts being connected in the said preheating circuit containing said operating coil and in parallel with the arcing circuit of said discharge device, so that said time delay device closes its contacts at a timed period after the line circuit is closed to operate said relay switch and transfer the preheating of said electrode from one of said preheating circuits to the other should the discharge device not fire when the line circuit is closed, said time delay device thereafter opening its contacts to cause the discharge device to fire by an inductive voltage kick.

2,667,605
ELECTROCATALYTIC GAS IGNITER
John Massier, Greensburg, Pa., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application May 31, 1950, Serial No. 165,273
8 Claims. (Cl. 317—83)



1. An electro-catalytic igniter for fuel burners comprising a heating and igniting element made of a plurality of strands of wire, means supporting said strands for parallel flow of an electric current therethrough, said strands having different dimensions and being composed of catalytically active material, the construction and arrangement being such that when the same voltage is imposed upon said strands in parallel certain of said strands are heated to higher temperatures than other of said strands, whereby said other strands have a greater life expectancy than said certain strands.

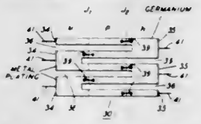
2,667,606
CAPACITOR AND TERMINAL LEAD THEREFOR
Robert M. Rood, Pittsfield, Mass., and Otto A. Keser, Aldan, Pa., assignors to General Electric Company, a corporation of New York
Application December 8, 1951, Serial No. 260,688
1 Claim. (Cl. 317—230)

In an electrolytic capacitor comprising a tubular container of metal, a pair of electrodes of tantalum metal wound into a roll and disposed within said container, a pair of terminal wires of tantalum metal respectively connected electrically to said electrodes and projecting exteriorally and respectively at the ends thereof from the opposite ends of said container, said terminal wires respectively extending through a pair of bushings of resilient insulating material positioned at said opposite ends of said container and sealing the interior thereof from the atmosphere, and a pair of leads of solderable metal electrically connected respectively to said tantalum terminal wires by welded joints, said joints being respectively positioned from said bushings a distance ranging from ⅛ to ½ inch, each of said



welded joints comprising a ball of tantalum integral with said projecting wire ends, said leads fused to said balls, said wires and leads extending from said balls in substantially opposite directions, and the diameter of said balls being substantially greater than the diameter of said wires and leads.

2,667,607
SEMICONDUCTOR CIRCUIT ELEMENT
Albert L. Robinson, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 26, 1952, Serial No. 284,628
10 Claims. (Cl. 317—234)

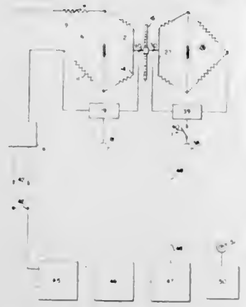


1. A circuit element comprising a body of semiconductive material having therein a pair of outer zones of one conductivity type on opposite sides of and forming PN junctions with an intermediate zone of the opposite conductivity type, said body having therein a series of slots certain of which extend through one of said pair of zones and across both of the junctions and others of which extend through the other of said pair of zones and across both of said junctions.

2,667,608
FOLLOW-UP TYPE OF CALIBRATING MEANS
Joseph A. Siderman, Shrewsbury, N. J., assignor to the United States of America as represented by the Secretary of the Army
Application May 2, 1951, Serial No. 224,243
6 Claims. (Cl. 318—19)
(Granted under Title 35, U. S. Code (1952), sec. 266)

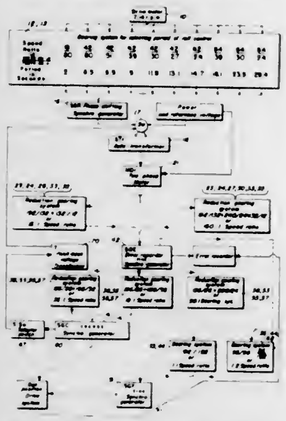
1. A calibrating instrument comprising; an indicating device for mechanically representing an electrical function, said indicating device having a mechanical indicator, a voltage divider consisting of a resistance wire and a sliding contact, said sliding contact mechanically coupled to said mechanical indicator, a source of potential across said voltage divider, a reference voltage corresponding to the voltage at a given point on said

voltage divider, means for determining a potential difference between the voltage at said given point on said voltage divider and said reference voltage, means for controlling the value of the



electrical function at the input of said indicating device, said last means being responsive to said means for determining a potential difference, whereby said mechanical indicator can be maintained at an exact point.

2,667,609
MOTION GENERATOR FOR TESTING SERVO MECHANISMS
Alfred A. Wolf, Dallastown, Pa., assignor to the United States of America as represented by the Secretary of the Navy
Application November 28, 1945, Serial No. 631,451
8 Claims. (Cl. 318—30)



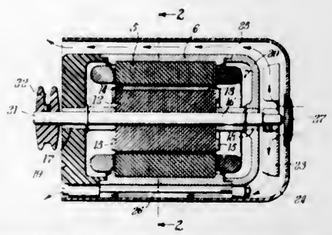
1. In a remote control mechanism of the type including at least one output signal generator having a rotor and plurality of Y-connected stator windings angularly displaced from each other, a motor having a rotation-direction-determining circuit for driving the rotor of at least said one generator, a feedback circuit for coupling a selected one of the stator phases comprising two of said windings to said determining circuit for applying to the latter a voltage of such polarity and phase as to oppose rotation of said motor by an amount proportional to the magnitude of the angle generated by rotation from a reference position, thereby to refer motor rotation to a reference position, and switching means included in said feedback circuit for selecting any one of said phases, thereby to select any one of a like plurality of reference positions similarly angularly displaced from one another.

2,667,610
PLURAL MOTOR CONTROL SYSTEM FOR USE WITH TRANSLATION DEVICES
Otto H. Schmitt, Port Washington, and William B. Greenlee, Garden City, N. Y.
Application July 5, 1944, Serial No. 543,592
2 Claims. (Cl. 318—55)



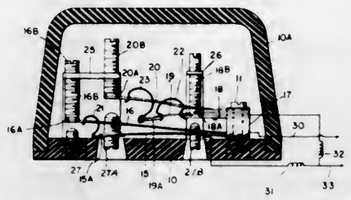
1. In combination with a translation system adapted to produce motion of a body in a plane and provided with plural motor-drive means for moving said body in directions parallel respectively to two mutually perpendicular axes in said plane, a control system having unitary control means for varying the operation of both of said drive motors to produce motion of said body along any desired path in said plane, said control system comprising a center-tapped voltage divider for each drive motor, and connecting control mechanism for continuously delivering a total voltage proportional to the desired velocity of the body along the desired path, said individual voltages being maintained proportional to the component velocities parallel respectively to said perpendicular axes, for controlling said drive motors to produce corresponding component velocities of said body parallel to each of said axes.

2,667,611
INDUCTION MOTOR FOR FAMILY SEWING MACHINE DRIVES
Victor Rodzianko, Cranford, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application December 21, 1951, Serial No. 262,766
4 Claims. (Cl. 318—220)



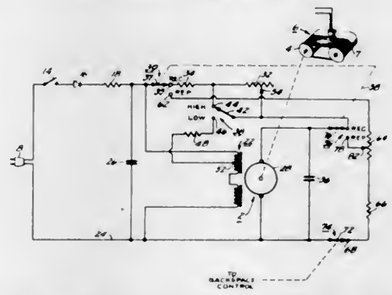
1. A single-phase induction motor of the permanent-split capacitor type comprising a main primary winding and an auxiliary primary winding mutually displaced in space phase by 90 electrical degrees, a squirrel-cage secondary winding, and a capacitor connected in circuit with said auxiliary primary winding, characterized by the ratio $r2/X$ being between the limits 1.75 and 2.50, the ratio K being between the limits 1.7 and 2.0, and the ratio Xc/X being between the limits 17 and 29, where $r2$ is the cold resistance of the rotor winding referred to the stator, X is the short-circuit reactance of the main primary winding, K is the ratio of the number of effective auxiliary winding turns to the number of effective main winding turns, and Xc is the reactance of the capacitor at line frequency.

2,667,612
THERMOSTATICALLY CONTROLLED ELECTRIC SWITCH
Alfred R. Lucas, Galion, Ohio
Application February 18, 1950, Serial No. 144,879
13 Claims. (Cl. 318—221)



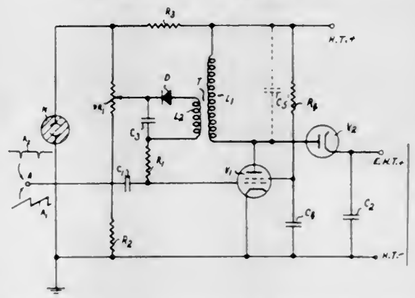
1. In a thermally controlled electric switch a spring current conducting arm fixed at one end and carrying a contact at the free end, a bimetal heat flexible U-shaped arm surrounding but spaced from the spring arm and having its legs fixed adjacent the fixed end of the first arm with its cross member opposite the end thereof, a toggle pivoted to the end of said spring arm and to said cross member, a second U-shaped or looped spring current conducting arm surrounding said bimetal arm and spaced therefrom and having its legs fixed adjacent the fixed ends of the first two arms, a toggle pivoted between the cross members of said second spring arm and said bimetal arm, said second spring arm carrying a contact at its free end, a third conducting U-shaped or looped spring arm having its legs fixed adjacent the fixed ends of the other arms but insulated therefrom and carrying at its free end a contact, stationary contacts adapted to cooperate with each of the arm carried contacts to "make" and "break" circuits therethrough, the stationary contacts for the second and third spring arms being electrically connected, a bimetallic heat flexible arm within said third arm and having one end adjacent the fixed end thereof, and a toggle pivoted between the end of said latter bimetal arm and the cross member of said third spring arm.

2,667,613
MULTIPLE SPEED MOTOR DRIVE SYSTEM
John H. Trevitt, Bridgeport, Conn., assignor to Dictaphone Corporation, Bridgeport, Conn.
Application November 29, 1950, Serial No. 198,163
11 Claims. (Cl. 318—305)



1. A multi-speed motor drive system comprising a source of direct voltage, a shunt-wound motor having field and armature windings, said field winding having a tap for making connection thereto at a point between the ends of said winding, first circuit means connecting said field winding to said source, second circuit means connecting said armature winding to said source, a resistor connected in series with said armature, and third circuit means connecting said field winding tap to the juncture of said resistor and said armature winding, whereby a substantially constant load-speed characteristic is produced over a predetermined range of loads.

2,667,614
VOLTAGE STABILIZING APPARATUS
Dennis Henry Covill, London, England, assignor to A. C. Cossor Limited, London, England, a company of Great Britain
Application November 14, 1949, Serial No. 127,055
Claims priority, application Great Britain November 29, 1948
5 Claims. (Cl. 321—2)



1. Apparatus for producing a stabilized, unidirectional high potential comprising an electron discharge valve, means to bias said valve to be normally conducting between anode and cathode, an inductor in the anode-cathode circuit of said valve, a source of exciting potential comprising a generator of oscillations of sawtooth waveform having a relatively slow working stroke and a relatively rapid return stroke, means to apply said exciting potential to the control grid of said valve to render said valve non-conducting and thereby generate voltage across said inductor and at said anode, means to rectify said voltage pulses to derive a unidirectional controlling potential of magnitude varying in dependence on the variations in amplitude of said pulses at said anode and of opposite sense to the variations at said anode and means to apply said controlling potential to said control grid to reduce variations in the amplitude of said pulses.

2,667,615
ELECTROSTATIC GENERATOR
Robert G. Brown, Downey, Calif.
Application January 30, 1952, Serial No. 269,050
9 Claims. (Cl. 322—2)



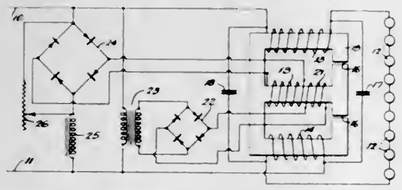
1. In an electrostatic generator characterized by its capacity to produce an alternating current that is substantially independent of output voltage, the combination comprising at least one pair of conductive surfaces positioned in electrically separated relation, a member having at least one conducting surface, means to place a charge q on the conductive surface of said member and means to support said member and said surfaces so that the conductive surface of said member is

alternately in spaced-apart, facing relation with each of said surfaces so that the charge q causes a flux ψ to terminate on each of said surfaces when said member is in facing relation therewith, said support means also adapted to permit relative movement between said member and said surfaces at a spaced distance therefrom and in substantial alignment therewith, whereby the movement between said member and said surfaces causes a change dq in the charge on said surfaces and a corresponding change $d\psi$ in the flux terminating on said surfaces with the result that a current i is induced on said surfaces in accordance with the formula

$$\frac{dq}{dt}=\frac{d\psi}{dt}=i$$

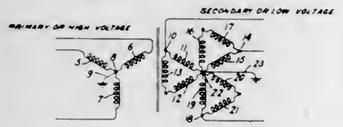
where t is the time.

2,667,616
CURRENT CONTROL APPARATUS
Karl A. Lang, Glenview, Ill., assignor to Lindberg Engineering Company, Chicago, Ill., a company of Illinois
Application April 29, 1950, Serial No. 159,046
11 Claims. (Cl. 323—2)



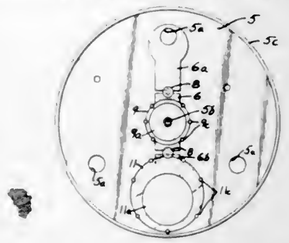
1. Current regulating apparatus comprising a pair of inductive windings and a pair of capacitors connected in a monocyclic square opposite corners of which are adapted to be connected to an alternating current source and the remaining corners to a load, a core on which the inductive windings are wound, a saturating winding on the core, and means connecting the saturating winding to the source to supply variable saturating current thereto in response to the source voltage.

2,667,617
POLYPHASE TRANSFORMER SYSTEM WITH GROUNDED NEUTRAL
Aram Boyajian, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application February 6, 1952, Serial No. 270,228
4 Claims. (Cl. 323—44)



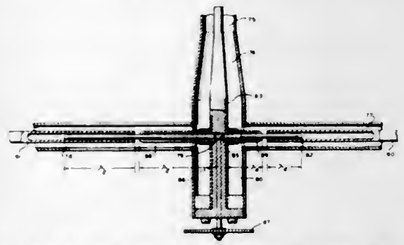
1. A symmetrical three-phase alternating-current transformer winding system having a neutral and three line terminals and at least three windings per phase, three of said windings from different phases being connected in Y phase relationship between said neutral and said three line terminals so that the voltages of said three windings are in phase respectively with the line terminal to neutral voltages of said system, the remaining windings being grouped in pairs and said pairs being connected respectively in closed delta relationship with said three windings which are connected in Y phase relationship between said neutral and said three line terminals, each of said delta connections of windings having a terminal which is isolated from said neutral and said line terminals.

2,667,618
BOLOMETER FOR COAXIAL TRANSMISSION LINES
William E. Waller, Brooklyn, and Stanley A. Johnson, New York, N. Y., assignors to Polytechnic Research and Development Company Incorporated, Brooklyn, N. Y., a corporation of New York
Application August 27, 1951, Serial No. 243,884
6 Claims. (Cl. 324—95)



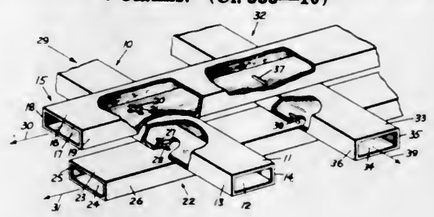
5. A bolometer resistor assembly comprising a disc of insulating material, a thin metallic coating applied to one face of said disc over a central area and two outer areas spaced from said central area by small gaps, a temperature-sensitive resistor bridging each gap, a pair of condensers each formed of a thin sheet of dielectric material having conductive coatings applied to opposite faces thereof, means securing one of said condensers in contact with the coating on said central area, and means securing said other condenser in contact with the coating on one of said outer areas.

2,667,619
POWER DIVIDER CIRCUIT
Richard C. Raymond, State College, Pa.
Application September 14, 1945, Serial No. 616,403
8 Claims. (Cl. 333—7)



5. A radio frequency power divider comprising, an input coaxial line and two mutually directed output coaxial lines, each of said lines having relatively stationary inner and outer conductors, said outer conductors being joined to form a hollow T, the inner conductor of said input line penetrating to the junction of said hollow T, each of the inner conductors of said output lines also penetrating said T but being spaced from said junction, and a rod movable along the common axis of said output lines, said movable rod being in electrical contact with said inner conductor of said input line and in spaced, variable capacitive relationship with both of the inner conductors of said output lines.

2,667,620
SIGNAL-COUPLING STRUCTURE
Henry J. Riblet, Wellesley Hills, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application November 4, 1950, Serial No. 194,136
7 Claims. (Cl. 333—10)



1. A signal-coupling structure comprising a first signal channel, a second signal channel and a third signal channel, respectively, coupled to said first channel through directional couplers, said second and third channels being, respectively, coupled to a fourth channel, the points of coupling of said second and third channels to said fourth channel being substantially a quarter wave length apart along said fourth channel at the frequency of said signal, and the points of coupling of said second and third channels to said first channel being substantially a quarter wave length apart along said first channel at said frequency.

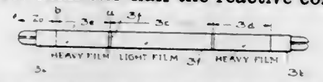
2,667,621
TORSIONAL FILTER
Leslie L. Burns, Jr., and Walter van B. Roberts, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Original application March 30, 1949, Serial No. 84,372. Divided and this application June 7, 1950, Serial No. 166,618
3 Claims. (Cl. 333—71)



3. A torsional resonator assembly, comprising a torsional resonator formed by a figure of revolution, a plating of magnetostrictive material extending over less than the entire circumference of said resonator, and means for establishing a magnetic field linking said plating, in a direction transverse to the longitudinal axis of the resonator and in a plane including the edges of the plating.

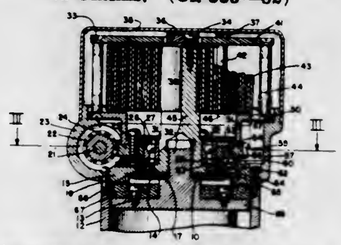
2,667,622
COAXIAL CABLE ATTENUATOR MATCHING DEVICE
Ernst Weber, Mount Vernon, John W. E. Griemsmann, Bellaire, and Stanley A. Johnson, New York, N. Y., assignors to Polytechnic Institute of Brooklyn, Brooklyn, N. Y., a corporation of New York
Application March 6, 1945, Serial No. 581,195
9 Claims. (Cl. 333—81)

1. An attenuator for a coaxial cable comprising an attenuator section formed of a section of coaxial cable having a resistive center conductor in which the resistance per unit length constitutes a substantial component of the series impedance per unit length of the attenuator section, and matching means comprising a section of coaxial cable located in front of said attenuator section and having a resistive inner conductor, said matching section having a lower characteristic impedance than said attenuator section and having a reactive component considerably less than one-half the reactive component



of the characteristic impedance of the attenuator section, and said matching section being of a length such that the characteristic impedance of said cable at the input end of said matching section is equal to the normal characteristic impedance of said cable.

2,667,623
CAVITY TUNER
Edward G. Martin, Cambridge, Mass.
Application January 8, 1946, Serial No. 639,888
11 Claims. (Cl. 333—82)

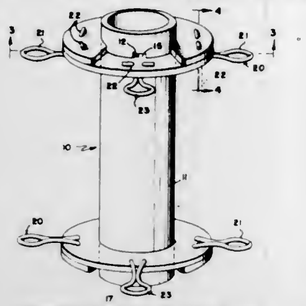


1. A temperature compensating tuning mechanism for cavity resonators and the like comprising, a movable tuning element including a flexible diaphragm disposed in one end of said cavity and secured at its outer edges thereto, a nut rotatably secured to said cavity by a ball bearing, a lead screw secured to said tuning element and adapted to engage the threads of said nut, a manually operated tuning control, and a bimetallic element composed of metals having dissimilar temperature expansion coefficients, said bimetallic element being secured at one end to said nut and at the other end to said control in such a manner as to mechanically couple said control to said nut, whereby said cavity may be tuned to a desired frequency by means of said manually operated tuning control and will thereafter be automatically returned by means of said bimetallic element in such a manner as to compensate for a change in frequency caused by a change in the dimensions of said cavity due to a variation in cavity temperature.

2,667,624
COIL FORMS WITH ENDS OF INSULATION HAVING ELECTRICAL TERMINALS THEREON
Basil A. Bels, Great Neck, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application May 9, 1951, Serial No. 225,359
2 Claims. (Cl. 339—147)

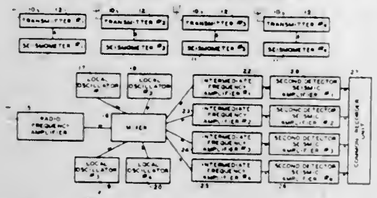
1. A coil mounting comprising a cylindrical tubular member having a pair of diametrically opposed apertures near one end thereof, a pair of annular open throated washers, the throat opening in each washer having radial edges positioned so that the inner arc of said throat opening is smaller than the diameter of said cylindrical tubular member, said washers being positioned upon the member adjacent said apertures

with a solid portion of a first of said washers covering the open throat of a second of said washers, an integral lug portion on each of said washers positioned opposite the throat portion and operative to enter said apertures to lock said washers upon the member against slidable and



rotational movement, said washers having a pair of aligned holes therein, and a removable staple passing through the pair of holes to secure the washers firmly together and to provide a terminal means for a coil wound upon the mounting.

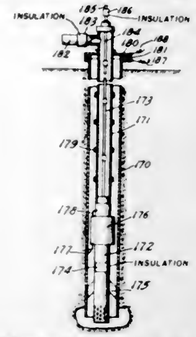
2,667,625
RADIO SEISMIC SYSTEM
Glen Peterson, Tulsa, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application August 24, 1948, Serial No. 45,877
8 Claims. (Cl. 340—15)



1. In a radio seismic system, a plurality of seismometers for converting seismic waves into electrical voltages representative thereof, a plurality of transmitters connected to the respective seismometers to radiate radio waves modulated by said electrical voltages, a receiver including a local oscillator unit and a mixing circuit for heterodyning said radio waves with the output of said local oscillator unit, thereby to produce a plurality of intermediate frequency signals, an intermediate frequency amplifier tuned to pass preselected ones of said intermediate frequency signals and to reject all other intermediate frequency signals, a detector fed by said amplifier, and a seismic amplifier-recorder unit fed by said detector.

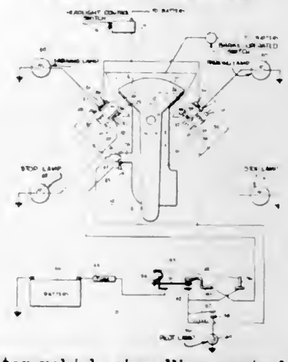
2,667,626
TELEMETERING SYSTEM FOR WELLS
Donald W. Blancher, North Hollywood, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 23, 1950, Serial No. 140,128
2 Claims. (Cl. 340—18)

1. In combination with a well containing a pair of continuous metallic elements extending therethrough, one at least of which is hollow and the other of which extends through the hollow element; a plurality of annular insulating elements between said elements spaced at intervals therealong for spacing said other element in approximately coaxial relation to said one element and forming therewith a coaxial electrical transmission line; insulating means for electrically isolating the end portions of said other element from said one element; electrical means con-



nected to said elements at one end for applying alternating signal current thereto, and electrical means connected to said elements at the other end for receiving said signalling current therefrom.

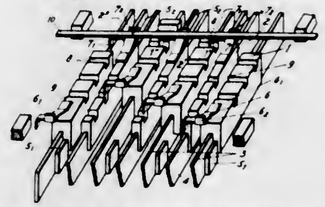
2,667,627
VEHICLE DIRECTIONAL AND EMERGENCY PARKING SIGNAL CONTROL SYSTEM
Jesse R. Hollins, Brooklyn, N. Y.
Application December 1, 1951, Serial No. 259,474
7 Claims. (Cl. 340—81)



1. A motor vehicle signalling control comprising a pair of switches mounted in spaced relation to each other, each switch including a first pair of contacts each connectible to a signal lamp on one side of the vehicle, a second pair of contacts, and an operator normally engaged with said first pair of contacts and movable to a second position interconnecting each of the first pair of contacts to a corresponding contact of the second pair; a flasher connected to the vehicle electric energy source having a main, normally open contact and a normally closed auxiliary back contact; a relay associated with said flasher and operable when said main contact is closed, said relay having an armature and a front contact normally disengaged by said armature; a grounded indicator lamp connected to said front contact; means connecting said armature to said main contact; a selector lever movably mounted between said switches and operable to selectively engage either switch operator to move the same to said second position; a flare lever movably mounted between said switches and selectively operable to engage both switch operators simultaneously to move both thereof to said second position; and switch means associated with and operable by said flare

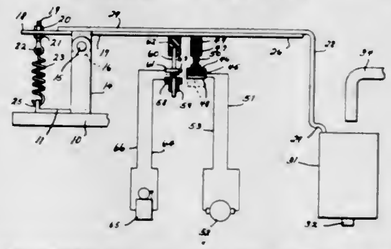
lever and connected to each of said second pairs of contacts, said flasher main contact in series with the operating coil of said relay and to said flasher back contact; said switch means, in the non-operated position of said flare lever, connecting both of said second pairs of contacts to said flasher main contact and, in the selectively operated position of said flare lever, connecting one pair of second contacts to said flasher main contact and the other pair of second contacts to said flasher back contact; whereby, when said selector lever is selectively operated, the signal lamps on one side of the vehicle will be flashed through said main flasher contact and when said flare lever is selectively operated, the signal lamps on one side of the vehicle will be flashed through said main flasher contact and the signal lamps on the other side of the vehicle will be flashed through said flasher back contact in alternation with the lamps on such one side; said pilot lamp being flashed, whenever the selector lever is operated, in synchronism with the signal lamps and being flashed, whenever the flare lever is operated, in synchronism with the signal lamps on one side only of the vehicle.

2,667,628
SIGN TRANSFER DEVICE
Roger M. Chaveneaud, Paris, France
Application September 5, 1950, Serial No. 183,164
Claims priority, application France September 17, 1949
5 Claims. (Cl. 340—173)



1. In a device of the type described comprising a series of relatively straight identical mechanical juxtaposed principal members longitudinally displaceable to occupy positions respectively corresponding to each of a plurality of signs which may form an indication comprising several successive such signs, means for moving each of said principal members to successively occupy positions corresponding to each of the signs of the indication to be registered, relatively straight identical mechanical auxiliary members one of which is arranged between each adjacent pair of said principal members and each of said auxiliary members corresponding to one of the signs which are to constitute the indication to be registered, means for moving the principal and auxiliary members longitudinally in opposite directions, a first means for temporarily connecting each of the said principal members to the auxiliary member that follows it in a predetermined direction, said connecting means being arranged to insure the simultaneous driving of each principal member and of the auxiliary member that is connected to it by said means, means to disconnect the principal members from the auxiliary members which are connected to them by said connecting means, means to cause the principal members to return to a neutral position, a second temporary connecting means between each of said auxiliary members and the principal member that follows it in said predetermined direction, said second connecting means being arranged to insure the simultaneous driving of each auxiliary member and of the principal member to which it is connected by said means, means to disconnect the auxiliary members from the principal members which are connected to them by said second connecting means, means to cause the principal members to return to a neutral position, said principal and auxiliary members being provided with regularly spaced projections and said connecting means between said principal and auxiliary members being constituted by members arranged to engage said projections, and means for engaging such latter members with said projections and for disengaging them from said projections.

2,667,629
AUTOMATIC SEPARATOR CUTOUT SWITCH
Marion E. Frost, Catonsville, Md.
Application October 5, 1951, Serial No. 249,933
9 Claims. (Cl. 340—222)

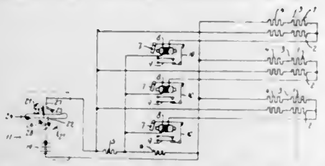


3. An automatic cut-out switch for the electric circuit of an oil separator having an outlet through which water discharges during normal operation of the separator and through which oil discharges during a failure of the separator comprising a base, a lever support on said base, a lever pivotally mounted on said support, a cup on said lever and having an orifice therein, a switch on said base for normally closing said circuit and having an operating member disposed in the path of movement of said lever, an alarm circuit comprising an alarm, a normally open switch for said alarm circuit and mounted on said base and comprising an operating member disposed in the path of movement of said lever, and resilient means connected to said support and said lever for holding said lever out of engagement with said operative members, said cup adapted to be positioned beneath said outlet to receive discharging water from the separator during the normal operation of the separator and to receive discharging oil from the separator during a failure of the separator, said orifice being of such a size that the water will escape from the cup at the same rate as it enters the cup and that the oil will not escape from the cup at as great a rate as it enters the cup so that the oil will accumulate in the cup until its weight overcomes the force of the resilient means for holding the lever out of engagement with said operating members, thereby causing the lever to move downwardly into engagement with said operating members to open the separator circuit and to close the alarm circuit.

2,667,630
AUTOMATIC FIRE ALARM SYSTEM
Asger Lars Jorgensen, Copenhagen, Denmark
Application December 21, 1951, Serial No. 262,826
Claims priority, application Denmark December 22, 1950
5 Claims. (Cl. 340—227)

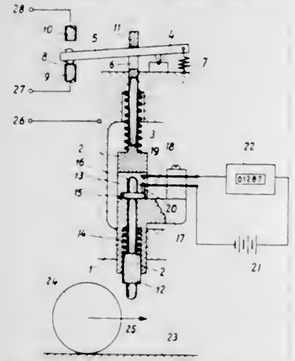
1. An automatic fire alarm system comprising pairs of thermo-negative resistors, one resistor of each pair being more heat insulated from the surroundings than the other, the resistors of each pair being mounted in close proximity in positions to be heated on the occurrence of a fire so

as to form a fire detector, an electric circuit in which said resistors are included, means in said circuit responsive to changes of the relative values of the two resistors of any pair when current is flowing in said circuit, and means for intermittently supplying to said circuit, short current



pulses of an amplitude high enough to be capable of individually operating said responsive means, and a duration and a make-to-break ratio small enough to substantially avoid heating of said thermo-negative resistors above the surrounding temperature.

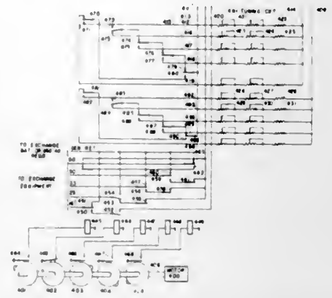
2,667,631
COMBINED COUNTING AND GAUGING DEVICE
Paul Schaurte, Vaduz, Liechtenstein
Application August 13, 1951, Serial No. 241,606
8 Claims. (Cl. 340—265)



1. In a device of the character described, the combination of first electric circuit means including an electrically operated counter, with second electric circuit means including an electrically operated dimension indicator, a first movable member for operating said first electric circuit, and a second movable member actuatable by said first movable member and operating said second electric circuit subsequent to the operation of said first electric circuit by said first member, said first movable member and said second movable member being arranged for movement relative to each other, whereby said counter is operated prior to said indicator, said first member including first end means adapted to engage a work piece to be counted and measured, and second end means, respectively, adapted to actuate one movable part in said first electric circuit and another movable part connected to said second movable member, consecutively.

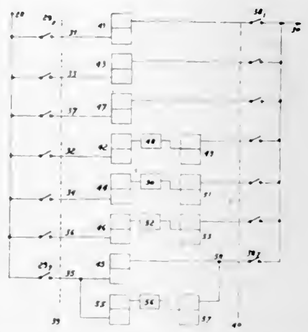
2,667,632
ELECTRONIC RINGING CURRENT GENERATOR
Otho D. Grandstaff, Oak Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application June 13, 1952, Serial No. 293,293
10 Claims. (Cl. 340—351)

1. An electronic generator for connection to a plurality of ringing devices each responsive to a different frequency, comprising a plurality of circuits each tuned to a distinct ringing frequency, actuating means, means operated in response to operation of said actuating means for switching in cyclic succession the ringing generator from one tuned circuit to another and for switching the output thereof to said ringing device, said ringing generator operable responsive to operation of said switching means for generating a particular ringing frequency associated with each tuned circuit when connected thereto, means for generating a ring back tone signal,



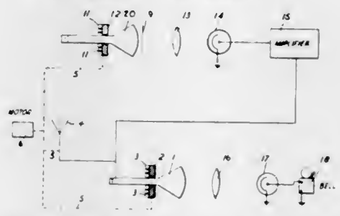
control means operated by said ringing generator for controlling the operation of said ring back tone means, means effective in response to receipt of said ring back tone signal for superimposing said signal upon each ringing frequency signal, means for amplifying the composite signal, and means for suppressing the transient voltages due to said switching operations, said suppressing means effective in response to receipt of said transient voltages to suppress said voltages whereby the composite output is free of deleterious foreign frequencies.

2,667,633
ELECTRIC SIGNAL ENCODER
Paul Mandel, Paris, France, assignor to La Radio-Industrie S. A., Paris, France, a corporation of France
Application May 31, 1951, Serial No. 229,049
Claims priority, application France June 14, 1950
10 Claims. (Cl. 340—354)



1. In an encoding device for transmitting binary code combination representing numbers from zero to a maximum value 2^{n-1} wherein the maximum duration T of a code combination is $n\theta$, where θ is the duration of an individual code element, the combination of a circuit comprising 2^{n-1} channels, each of said channels including at least one one-shot multivibrator delivering a pulse having a minimum time duration of θ, at least one of said channels including a differentiating circuit connected to the output of its one-shot multivibrator, a limiter device for transmitting only the second sharp pulse produced by said differentiating circuit, and a second one-shot multivibrator included in said one channel and controlled by said limiter device.

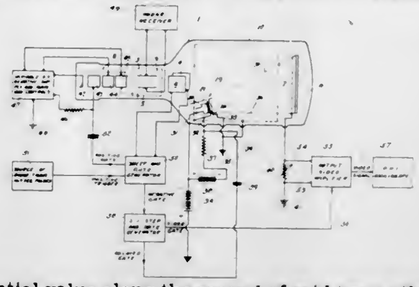
2,667,634
MOVING TARGET INDICATION APPARATUS
Geoffrey Walter Hart, Stoke Poges, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain
Application November 10, 1948, Serial No. 59,309
Claims priority, application Great Britain November 15, 1947
2 Claims. (Cl. 343—7.7)



1. Radiolocation apparatus incorporating an angularly movable antenna for receiving signals reflected from objects in the field explored by said antenna, a first cathode ray tube, means for deflecting the beam of said tube to scan the screen of said tube, means responsive to said signals for modulating said beam to provide a display representing the positions of said objects, a second cathode ray tube, means for deflecting the beam of said second tube in synchronism with the beam of said first tube to produce a moving light spot on the screen of said second tube, a material representation indicating selected objects only in said field and disposed to be scanned by said light spot, a photoelectric device disposed for exposure to light from said material representation to generate signals corresponding to said selected objects, and means responsive to said last-mentioned signals for varying the amplitude of signals corresponding to said selected objects received by said antenna to differentiate in said display representations of said selected objects from representations of other objects.

2,667,635
MOVING TARGET INDICATOR RADAR SYSTEM
Rudolf C. Hergenrother, West Newton, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application September 20, 1947, Serial No. 775,291
5 Claims. (Cl. 343—7.7)

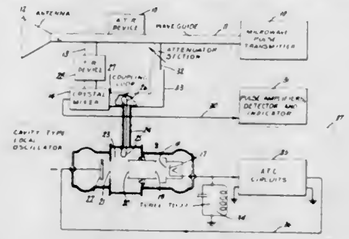
1. In a pulse-echo radar system including a source of primary spaced repetitive pulses and means for detecting secondary echo pulses occurring between successive primary pulses: an electron discharge device having an electron gun for projecting a beam of electrons and a cooperating electrode having a potential storing surface whose plane is perpendicular to the path of said beam; deflecting means, triggered by said source, for repetitively causing sweeps of said beam in one direction across said surface to occur in synchronism with said primary pulses; deflecting means, connected to said detecting means, for deflecting said beam, in a direction transverse to said one direction, in accordance with said secondary pulses; each resultant path of travel of said beam across said surface producing a line of discrete charges thereon, the potentials of said charges having a predetermined value; means comparing two successive paths of travel of said beam across said surface and for producing, in accordance with any deviations from said predetermined po-



tential value along the second of said two paths of travel, output signals indicative of such deviations; and means, controlled by alternate primary pulses, but delayed with respect thereto until a time immediately prior to the next succeeding primary pulse, for repetitively biasing the entire area of said surface to a common predetermined potential level at which the line of charges is removed from said surface, said predetermined potential level being different from said predetermined potential value.

2,667,636
AUTOMATIC FREQUENCY CONTROL CIRCUITS FOR SUPERHETERODYNE MICROWAVE RECEIVERS
Oliver H. Winn, Baldwinsville, N. Y., assignor to General Electric Company, a corporation of New York
Application February 2, 1951, Serial No. 209,154
3 Claims. (Cl. 343—17.1)

3. In a microwave pulse radar system including a pulse transmitter and a superheterodyne pulse receiver, a local oscillator for said receiver of the reflex klystron type including a cathode electrode, a single resonant cavity and a reflector



electrode, means for coupling a small amount of microwave voltage directly from said transmitter into said cavity, a tuned circuit resonant at a desired intermediate frequency connected in circuit with one of said electrodes, an automatic frequency control circuit energized from voltage appearing across said tuned circuit for producing a unidirectional control voltage, and means for impressing said control voltage on said reflector electrode in a sense tending to stabilize said oscillator frequency so as to maintain the difference between the transmitter and oscillator frequencies equal to said desired frequency.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 30 cents a sheet.

268,342. **PRODUCTION OF SHAPED ARTICLES BY POLYMERIZING ESTERS OF ALPHA-CHLORO-ACRYLIC ACID.** John William Croom Crawford, Welwyn Garden City, and George Arthur Rooke Matthews, Letchworth, England, assignors to Imperial Chemical Industries, Limited, London, England, a corporation of Great Britain. Filed Jan. 25, 1952. Published Jan. 26, 1954. Class 18—55. No drawing. 17 pages of specification.

This disclosure relates to the production of shaped articles by polymerising the methyl, ethyl, propyl or butyl esters of α-chloroacrylic acid in a mould having rigid walls which are separated by one or more elastic, yieldable intermediate bodies. Those parts at least of the intermediate bodies which come into contact with the monomeric or partially polymerised α-chloroacrylic acid ester comprise a hydrolysed polyvinyl ester of a fatty acid containing not more than four carbon atoms, in which at least 70% of the ester groups have been replaced by hydroxyl groups. The solid polymeric material thus formed is subjected to a heat treatment at 120° C. before removal from the mould. The hydrolysed polyvinyl ester of a fatty acid may be hydrolysed polyvinyl acetate.

The intermediate body may be in the form of a gasket positioned round the edges of the mould walls, e. g., a tube consisting of hydrolysed polyvinyl acetate, or it may be a tube of an elastic, yieldable material coated or covered with the hydrolysed polyvinyl ester of a fatty acid. The intermediate bodies may also be in the form of blocks of hydrolysed polyvinyl ester of a fatty acid which are arranged between the walls of the mould, the mould being rendered fluid-tight by covering the gaps between the walls externally with strips of film material or coated paper.

The hydrolysed polyvinyl ester of a fatty acid may be plasticised with up to 80% of its own weight of an organic polyhydroxy compound which is insoluble in the α-chloroacrylic acid ester, e. g., glycerol.

The polymerisation may be carried out by normal known methods.

DESIGNS

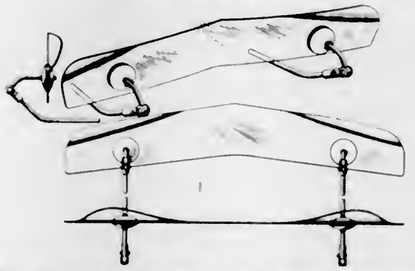
JANUARY 26, 1954

171,319
FINGER RING
Gail Bennett, Evanston, Ill.
Application September 11, 1953, Serial No. 26,768
Term of patent 14 years
(Cl. D45—10)



The ornamental design for a finger ring, substantially as shown and described.

171,320
BUG AND AIR DEFLECTOR FOR AUTOMOBILES
Forrest Berry, Reading, Pa.
Application April 20, 1953, Serial No. 24,587
Term of patent 7 years
(Cl. D14—6)



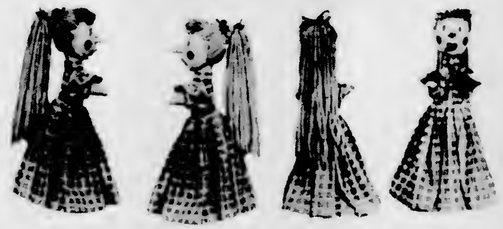
The ornamental design for a bug and air deflector for automobiles, as shown.

171,321
COMBINED NECKLACE AND CLIP
Marcel Boucher, Eltingeville, N. Y.
Application July 1, 1953, Serial No. 25,743
Term of patent 3½ years
(Cl. D45—16)



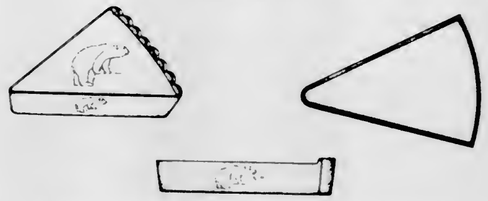
The ornamental design for a combined necklace and clip, as shown.

171,322
PUPPET
John E. Conway, Toronto, Ontario, Canada
Application September 8, 1953, Serial No. 26,741
Claims priority, application Canada
September 4, 1953
Term of patent 14 years
(Cl. D34—4)



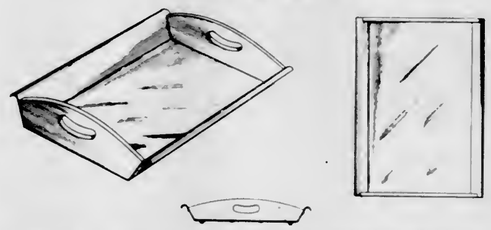
The ornamental design for a puppet, as shown.

171,323
EDIBLE CONTAINER
Harold W. Corley, Albuquerque, N. Mex.
Application November 21, 1952, Serial No. 22,399
Term of patent 14 years
(Cl. D8—2)



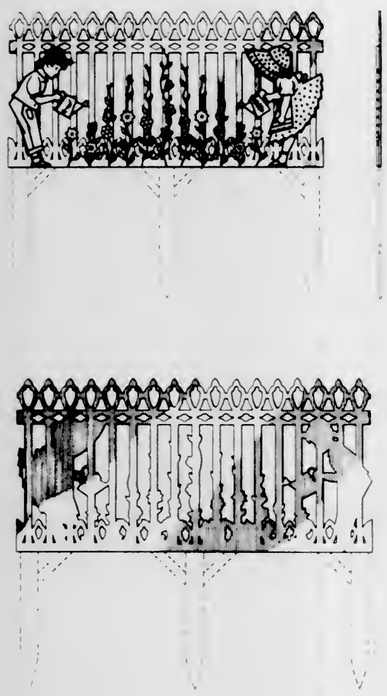
The ornamental design for an edible container, as shown and described.

171,324
SERVING TRAY
Charles T. De Puy, Brighton, N. Y., assignor to Trimble, Inc., Rochester, N. Y., a corporation of New York
Application August 13, 1953, Serial No. 26,444
Term of patent 14 years
(Cl. D44—10)



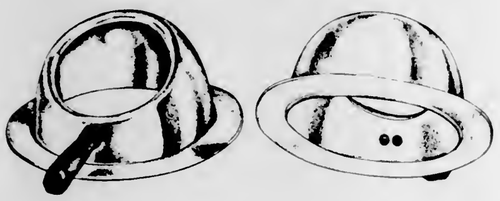
The ornamental design for a serving tray, as shown.

171,325
FENCE
Bernard Yellin, Chicago, Ill., assignor to Bernard Edward Co., Chicago, Ill., a corporation of Illinois
Application June 29, 1953, Serial No. 25,719
Term of patent 14 years
(Cl. D28—1)



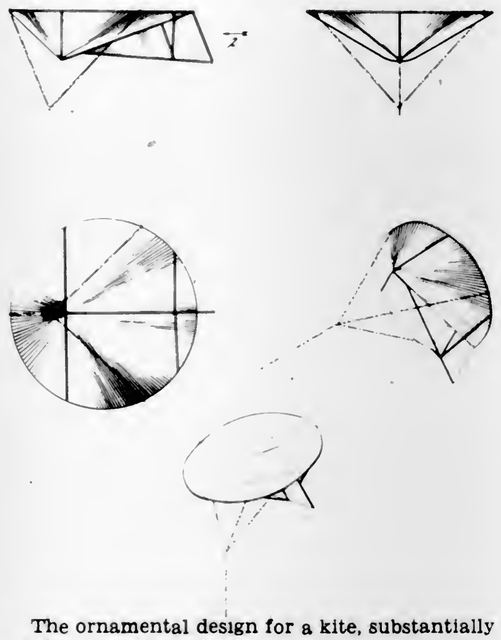
The ornamental design for a fence, as shown and described.

171,326
FRY PAN COVER
Henry G. Fornoff, Los Angeles, Calif.
Application September 21, 1953, Serial No. 26,873
Term of patent 14 years
(Cl. D44—15)



The ornamental design for a fry pan cover, substantially as shown.

171,327
KITE
Roy D. Gould, Detroit, Mich.
Application April 8, 1953, Serial No. 24,406
Term of patent 7 years
(Cl. D34—15)



The ornamental design for a kite, substantially as shown and described.

171,328
RACK FOR SPICE CONTAINERS
Charles H. Greenlee, New York, N. Y.
Application September 21, 1953, Serial No. 26,868
Term of patent 14 years
(Cl. D33—3)



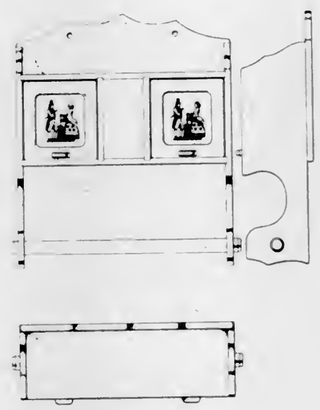
The ornamental design for a rack for spice containers, as shown and described.

171,329
SPICE CABINET
Charles H. Greenlee, New York, N. Y.
Application September 21, 1953, Serial No. 26,869
Term of patent 14 years
(Cl. D33—3)



The ornamental design for a spice cabinet, as shown and described.

171,330
COMBINED CABINET AND TOWEL RACK
Charles H. Greenlee, New York, N. Y.
Application September 21, 1953, Serial No. 26,870
Term of patent 14 years
(Cl. D44—29)



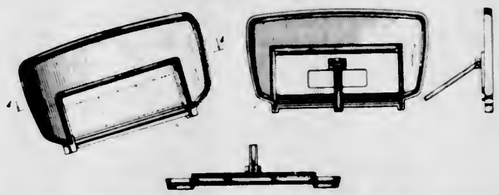
The ornamental design for a combined cabinet and towel rack, as shown and described.

171,331
OVERSHOE
Chester H. Haines, Gardena, and Dolph G. Hoyt, Jr., Los Angeles, Calif., assignors to Coffey-Hoyt Products, Inc., Gardena, Calif., a corporation of California
Application June 27, 1952, Serial No. 20,380
Term of patent 14 years
(Cl. D7—4)



The ornamental design for an overshoe, substantially as shown and described.

171,332
CALENDAR STAND
Charles E. Jones, Chicago, and Robert H. Crowle, Berwyn, Ill.
Application July 20, 1953, Serial No. 26,051
Term of patent 14 years
(Cl. D74—5)



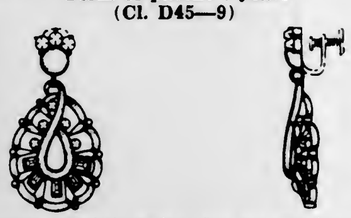
The ornamental design for a calendar stand, as shown and described.

171,333
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 5, 1953, Serial No. 26,278
Term of patent 7 years
(Cl. D45—19)



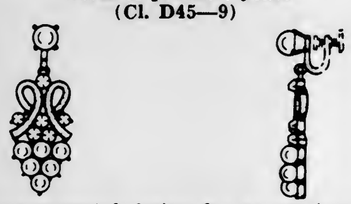
The ornamental design for a brooch or the like, substantially as shown.

171,334
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 5, 1953, Serial No. 26,280
Term of patent 7 years
(Cl. D45—9)



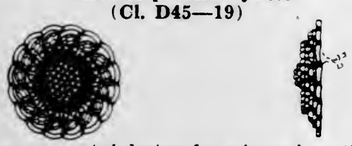
The ornamental design for an earring or the like, substantially as shown.

171,335
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 5, 1953, Serial No. 26,283
Term of patent 7 years
(Cl. D45—9)



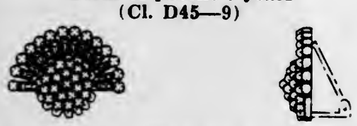
The ornamental design for an earring or the like, substantially as shown.

171,336
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 5, 1953, Serial No. 26,285
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,337
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 5, 1953, Serial No. 26,286
Term of patent 7 years
(Cl. D45—9)



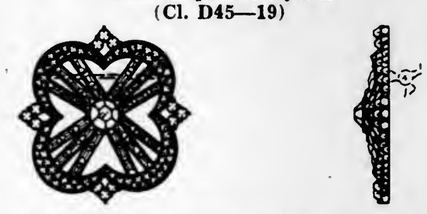
The ornamental design for an earring or the like, substantially as shown.

171,338
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 5, 1953, Serial No. 26,287
Term of patent 7 years
(Cl. D45—19)



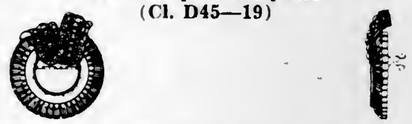
The ornamental design for a brooch or the like, substantially as shown.

171,339
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 5, 1953, Serial No. 26,288
Term of patent 7 years
(Cl. D45—19)



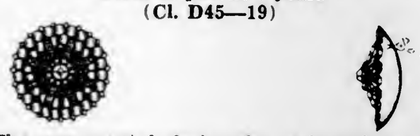
The ornamental design for a brooch or the like, substantially as shown.

171,340
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,304
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,341
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,307
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,342
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,313
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,343
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,317
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,344
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,319
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,345
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,320
Term of patent 7 years
(Cl. D45—9)



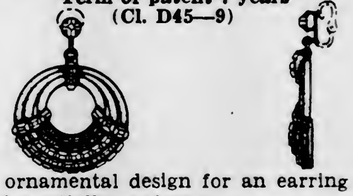
The ornamental design for an earring or the like, substantially as shown.

171,346
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,323
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,347
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,324
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,348
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,325
Term of patent 7 years
(Cl. D45—9)



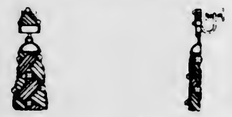
The ornamental design for an earring or the like, substantially as shown.

171,349
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 10, 1953, Serial No. 26,378
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,350
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 10, 1953, Serial No. 26,383
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantialiy as shown.

171,351
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 10, 1953, Serial No. 26,384
Term of patent 7 years
(Cl. D45—9)



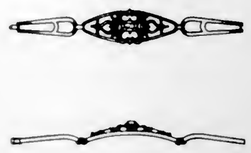
The ornamental design for an earring or the like, substantially as shown.

171,352
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 10, 1953, Serial No. 26,386
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,353
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 2, 1953, Serial No. 26,673
Term of patent 7 years
(Cl. D45—4)



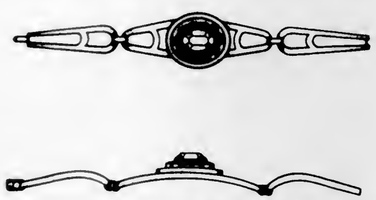
The ornamental design for a bracelet or the like, substantially as shown.

171,354
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 2, 1953, Serial No. 26,674
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

171,355
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 2, 1953, Serial No. 26,677
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

171,356
LINK CHAIN FOR A BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 2, 1953, Serial No. 26,680
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or the like, substantially as shown.

171,357
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 2, 1953, Serial No. 26,681
Term of patent 7 years
(Cl. D45—16)



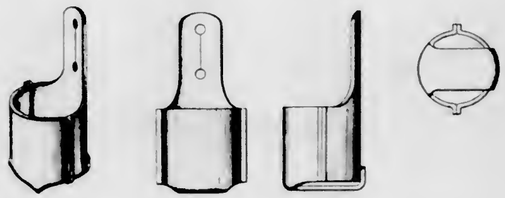
The ornamental design for a necklace or the like, substantially as shown and described.

171,358
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 2, 1953, Serial No. 26,683
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

171,359
POUCH FOR ATTACHMENT TO A BELT OR BUTTON
Donald W. Keyston, Pasadena, Calif., assignor to Lichtenberger-Ferguson Co., Los Angeles, Calif., a corporation of California
Application August 20, 1953, Serial No. 26,532
Term of patent 14 years
(Cl. D87—2)



The ornamental design for a pouch for attachment to a belt or button, as shown.

171,360
PENDANT OR SIMILAR ARTICLE
James S. Lunn, Hempstead, N. Y.
Application April 16, 1953, Serial No. 24,531
Term of patent 14 years
(Cl. D45—17)

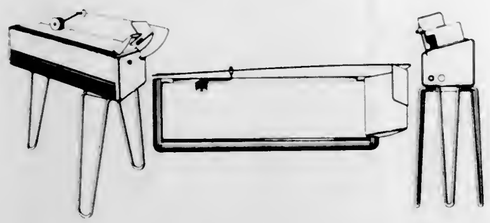
The ornamental design for a pendant or similar article, substantially as shown.

171,361
STOCKING
Julius Miran, Teaneck, N. J.
Application September 9, 1953, Serial No. 26,749
Term of patent 14 years
(Cl. D47—7)



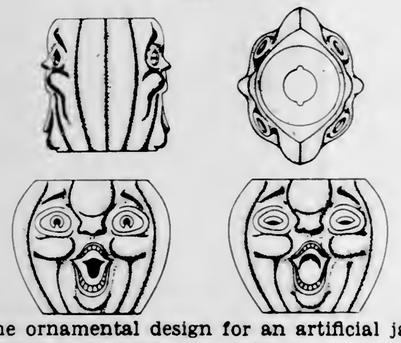
The ornamental design for a stocking, as shown.

171,362
COMBINED STACKING DEVICE AND STAND
George R. Munsie, Stamford, Conn., assignor to Pitney-Bowes, Inc., Stamford, Conn., a corporation of Delaware
Application August 31, 1953, Serial No. 26,648
Term of patent 14 years
(Cl. D64—11)



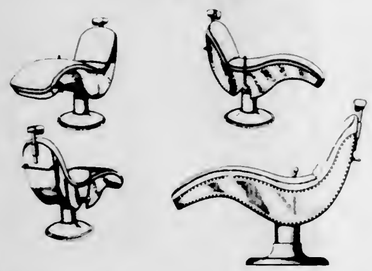
The ornamental design for a combined stacking device and stand, substantially as shown.

171,363
ARTIFICIAL JACK-O'-LANTERN
Arthur J. Nelson, Milwaukee, Wis., assignor to Pulp Reproduction Co., Milwaukee, Wis., a corporation of Wisconsin
Application February 9, 1953, Serial No. 23,493
Term of patent 14 years
(Cl. D34—15)



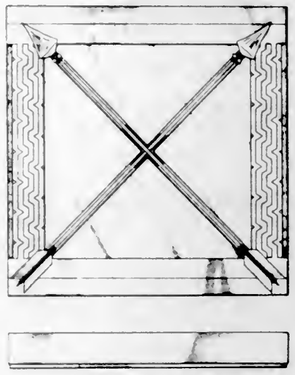
The ornamental design for an artificial jack-o'-lantern, substantially as shown.

171,364
BARBER CHAIR OR SIMILAR ARTICLE
George E. Parker, Pasadena, Calif.
Application August 14, 1953, Serial No. 26,455
Term of patent 7 years
(Cl. D15—3)



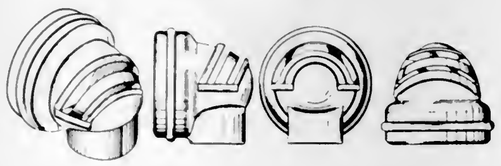
The ornamental design for a barber chair or similar article, substantially as shown.

171,365
DISPLAY CONTAINER OR THE LIKE
Louis Podus, Los Angeles, Calif., assignor to Guild Moccasin Corporation, Los Angeles, Calif., a corporation of California
Application June 24, 1953, Serial No. 25,641
Term of patent 14 years
(Cl. D80—5)



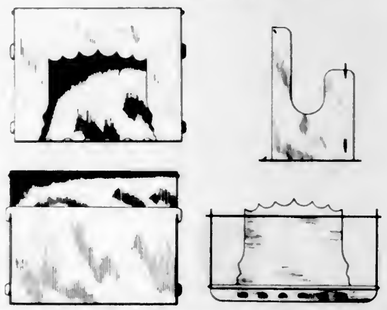
The ornamental design for a display container or the like, substantially as shown.

171,366
SPRINKLER HEAD
Elmer N. Reynolds, Rivera, Calif.
Application March 11, 1953, Serial No. 23,981
Term of patent 14 years
(Cl. D91—1)



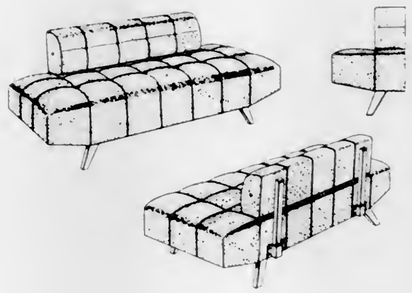
The ornamental design for a sprinkler head, as shown.

171,367
TOY STAGE FOR PUPPETS
Hazelle H. Rollins, Kansas City, Mo.
Application July 30, 1953, Serial No. 26,197
Term of patent 14 years
(Cl. D34—15)



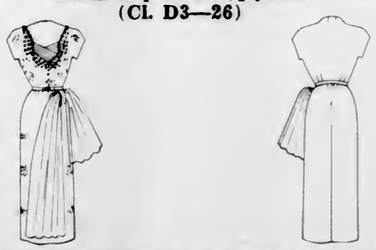
The ornamental design for a toy stage for puppets, as shown.

171,368
SOFA BED
Max Rothstein, Newton, Mass., assignor to The Dav-O-Niter Corp., Melrose, Mass., a corporation of Massachusetts
Application August 14, 1953, Serial No. 26,449
Term of patent 14 years
(Cl. D15—11)



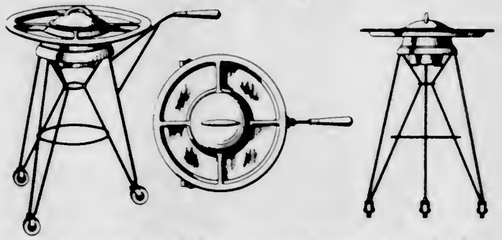
The ornamental design for a sofa bed, as shown.

171,369
DRESS
Mamie Verrand, New York, N. Y.
Application July 7, 1953, Serial No. 25,836
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

171,370
LAZY SUSAN CHAFING DISH VEHICLE
Harvey J. Wier, Sr., Opelousas, La.
Application March 6, 1953, Serial No. 23,923
Term of patent 14 years
(Cl. D44—10)



The ornamental design for a lazy susan chafing dish vehicle, as shown.

February 2, 1954 Volume 679 Number 1

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business December 31, 1953

Total number of patent applications awaiting action, 107,792. Date of oldest new application, February 10, 1953; date of oldest amended application, February 18, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	4-2-53	4-2-53	1431
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	3-24-53	3-27-53	1313
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Compositions (part).	4-22-53	4-20-53	2060
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	4-8-53	4-1-53	1591
5. ROBINSON, C. W., Harvesters; Harrows and Diggers (part); Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates.	4-7-53	4-10-53	1423
6. SURLE, H., Natural Resins; Proteins; Heterocyclic; Amides; Amines; General Organic Processes	3-2 53	3-2-53	2191
7. GONSALVES, J. E., Optics; Photography (part)	3-10-53	3-10-53	1916
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	4-21-53	4-21-53	1447
9. BRANSON, J. H., Pumps: Fans; Turbines	4-1-53	4-1-53	1261
10. Abolished as of November 16, 1953. See Commissioner's Administrative Order No. 45.			
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	4-15-53	4-13-53	1252
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches; Interrelated Clutch and Motor or Transmission Controls.	4-6-53	4-7-53	1868
13. BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Forging and Welding, Plastic Working, Drawing, Sawing, Milling, Planing, Turning.	3-18-53	3-18-53	1321
14. MANIAN, J. C., Metal Working (part)—e. g., Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes.	4-13-53	4-13-53	1529
15. BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass	4-6-53	4-6-53	1782
16. LOVEWELL, N. N., Television: Telephony; Recorders	3-2-53	3-2-53	1854
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	3-23-53	4-1-53	1518
18. KURZ, J. A., Power Plants; Speed Responsive Devices; Brakes	4-2-53	3-23-53	1401
19. PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners	3-6-53	3-4-53	1094
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking.	4-24-53	4-23-53	1227
21. MADER, R. C., Textiles	4-2-53	4-3-53	1283
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling.	4-20-53	4-16-53	1226
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	3-20-53	3-6-53	1093
24. DRACOPOULOS, P. T., (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	6-4-53	6-8-53	1096
25. NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus.	5-1-53	5-1-53	1439
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Realstors and Rheostats, Prime Mover Dynamo Plants; Elevators.	4-3-53	4-7-53	2018
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	4-22-53	4-21-53	1283
28. BRAUNER, R H., Steam and Internal Combustion Engines; Fluid Servo-Motors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes.	4-28-53	4-20-53	1449
29. HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers.	4-8-53	4-3-53	1362
30. BISHOFF, A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidostats; Illuminating Burners; Doors and Windows; Fluid Sprinkling, Spraying and Diffusing.	6-1-53	6-1-53	1545
31. HUTCHINSON, E. W., Mineral Oils; Urea Adducts; Silicon Containing Carbon Compounds; Hydrogenation of Carbon Oxides; Partial Oxidation of Non-Aromatic Carbon Mixtures.	3-17-53	3-12-53	1936
32. BERMAN, H., Gas and Liquid Carburetors; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.	4-27-53	4-27-53	1470
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	3-26-53	3-23-53	2043
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	3-13-53	3-10-53	1353
35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet; Kitchen and Table Articles	4-14-53	4-3-53	1504
36. McFADYEN, A. D., Measuring and Testing	4-9-53	4-8-53	1089
37. LEVY, M. L., Electricity—Switches, Welding, Heating	5-4-53	4-27-53	1876
38. MARMELSTEIN, N., Lignins; Azo; Carbohydrate; Carbocyclic or Acyclic Compounds (part), e. g., Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Hydroxy.	3-18-53	3-20-53	2121
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	5-1-53	5-1-53	1575
40. DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages	5-4-53	5-5-53	2215

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	4-13-53	4-10-53	1811
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Connectors.	4-2-53	4-3-53	1765
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	3-11-53	3-16-53	1999
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	4-20-53	4-16-53	1277
46. O'LEARY, R. A., Abolished as of January 4, 1954. See Commissioner's Administrative Order No. 46 (O. G.).	3-26-53	3-26-53	1183
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	4-6-53	4-6-53	1599
48. BERNSTEIN, S., Electricity; Electrical Conversion Systems, Measuring and Testing (part), Ignitors, Adjustable Induction Devices.	3-12-53	3-16-53	1916
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	4-13-53	4-9-53	1451
50. BENGEL, W. G., Synthetic Resins; Rubber	5-18-53	5-18-53	2121
51. YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators, Modulators; Duplex or Multiplex Radio Communication; Piezoelectric Crystal Devices; Music.	4-7-53	4-3-53	1598
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	5-6-53	5-6-53	1891
53. REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Metal Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.	4-3-53	4-6-53	1687
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits, Ray Energy Applications.	3-30-53	4-8-53	1940
55. KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors.	3-2-53	3-9-53	1701
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	5-4-53	5-4-53	1442
57. MILLER, A. B., (DURHAM, B. G., Acting), Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	4-27-53	4-16-53	1779
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	4-1-53	4-2-53	1389
59. HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	4-1-53	4-1-53	1562
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	5-4-53	5-28-53	955
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	4-14-53	4-20-53	1916
63. WINKELSTEIN, A. H., Foods and Beverages; Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part).	3-23-53	3-20-53	2030
64 GORECKI, G. A., Fuels and Miscellaneous Compositions	4-2-53	4-2-53	1826
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, L., Geometric Instruments; Automatic Weighers; Weighing Scales; Acoustics	4-14-53	4-20-53	1156
67. KRAFFT, C. F., Laminated Fabric; Photographic Processes and Products; Ornamentation; Paper Making.	4-30-53	4-10-53	1719
68. Abolished as of November 2, 1953. See Commissioner's Administrative Order No. 44.			
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Electrical Conductors, Insulators and Conduits.	4-3-53	4-3-53	1672
70. BREWRINK, J. L., Guns and Torpedoes; Explosive Charge Making; Electrical Directional and Distance Instruments; Radio Antennae; Radar; Actinide Compounds; Explosive Compositions; Mass Spectrometers.	2-10-53	2-18-53	3749
DESIGNS: A—BREHM, G. L., Industrial Arts	7-6-53	7-9-53	1279
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	8-5-53	9-11-53	925

Number of new applications received week ending December 18, 1953

PATENTS 1,373 DESIGNS 98 REISSUES 3 TOTAL 1,474

Total number of trade-mark applications awaiting action (including renewals and republications), 12,560.
Date of oldest new application, August 1, 1953; date of oldest amended application, August 1, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	8-1-53	8-1-53	3041
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	8-1-53	8-1-53	3045
Renewals (All Classes)	10-16-53	11-25-53	488
Republications (All Classes)	10-26-53	12-1-53	213
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	8-3-53	8-3-53	2851
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	8-3-53	8-3-53	2922

DECISIONS IN PATENT AND TRADE-MARK CASES

United States Court of Appeals
District of Columbia Circuit

COOK *v.* WATSON, COMMISSIONER OF PATENTS

No. 11675. Decided November 19, 1953

[— F.2d — ; 99 USPQ 330]

APPEAL TO U. S. COURT OF APPEALS—PATENT OFFICE UNSUCCESSFUL—PLAINTIFF MUST PAY PRINTING EXPENSES INCURRED BY OFFICE.

Held that the clear language of the statute requires that the plaintiff in a trade-mark application suit under R. S. 4915 pay the printing expenses incurred by the Patent Office in an unsuccessful appeal taken by the latter to the Court of Appeals, but that under the circumstances of the instant case, even though Rule 17(h) has no direct application to this case, the rate fixed by that rule ($3.25 per page) should not be exceeded.

APPEAL from the United States District Court for the District of Columbia.

REMANDED.

A. Yates Dowell (*A. Yates Dowell, Jr.* of counsel) for Cook.

E. L. Reynolds for the Commissioner of Patents.

Before EDGERTON, FAHY, and WASHINGTON, *Circuit Judges*

PER CURIAM:

The question here is whether the plaintiff in a trade-mark application suit under Rev. Stat. § 4915[1] must pay the printing expenses incurred by the Patent Office in an unsuccessful appeal taken by the latter to this court.[2] We think the clear language of the statute requires us to answer in the affirmative. The result may be harsh, but that is a matter for Congress. At the time this suit was brought, Rev. Stat. § 4915 provided that "In all cases where there is no opposing party a copy of the bill shall be served on the Commissioner; and all the expenses of the proceedings shall be paid by the applicant, whether the final decision is in his favor or not."[3] Here there was in substance no opposing party.[4] The "proceedings" in a suit must be held to include an appeal, by whichever party taken. And "expenses" are not limited to costs.[5] Reasonable printing expense must be deemed includable. A reasonable rate for printing is fixed, for purposes of allowing costs in this court, at $3.25 per page. See Rule 17(h) of our General Rules. Though that rule has no direct application here, the scale it sets should not be exceeded in the present context. As the record does not show whether or not the sum allowed by the District Court exceeded that scale, we will remand so that it may be applied.[6]

So ordered.

REMANDED.

[1] Suit was brought under Rev. Stat. § 4915 (1873), as amended, 35 U. S. C. § 63 (1946). That section was repealed by section 3, act of July 19, 1952, c. 950, 66 Stat. 813, and is now replaced by 66 Stat. 803, 35 U. S. C. A. §§ 145, 146.

[2] *Marzall* v. *Cook*, 90 U. S. App. D. C. 423, 196 F.2d 241 (1952).

[3] By the act of July 19, 1952, supra note 1, at c. 950, § 1, 66 Stat. 803, 35 U. S. C. A. § 145, this language was changed to read simply: "All the expenses of the proceedings shall be paid by the applicant." The parties argued their case in the District Court and in this court on the basis of the old wording, and we rule on that basis.

[4] Mrs. Cook sued not only the Commissioner of Patents but also the Newark Jewelry Company. That company had been named by the Patent Office when it set up an opposition proceeding during the course of Mrs. Cook's attempt to obtain registration of her trade-mark. Newark Jewelry Company did not at any time, however, regard Mrs. Cook's trade-mark as being in conflict with its own mark. After Mrs. Cook's suit was brought that company filed an answer in which it stated that it did not consider a conflict to exist, and that it joined in Mrs. Cook's prayer that registration of her mark be granted. The Jewelry Company and Mrs. Cook were in fact represented by the same attorney, who entered appearances for both in the District Court. Under these circumstances, we do not believe that there was an "opposing party" in Mrs. Cook's suit, within the meaning of the statute.

[5] *Robertson* v. *Cooper*, 46 F.2d 766, 769 (4th Cir. 1931).

[6] Appellant urges that the District Court was without jurisdiction to enter its order. We cannot agree. This court made no ruling as to expenses when the case was here previously. We denied appellant's motion, made after the rendition of our prior opinion affirming the District Court's grant of registration, that costs be not assessed against her. This was a ruling as to costs, and was not a determination of the present controversy. In any event, it was adverse to appellant, and cannot aid her here. After the amount of the Government's expenses (as distinguished from costs) had been ascertained, it could properly go to the District Court for relief.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

1,549,591, F. S. McCullough, Heat treating porcelain; 1,615,022, same, Applying earthen material to metal; 1,615,093, same, High vacuum space discharge device; 1,677,900, same, Degasifying radiotubes; 1,759,910, same, Circuits for thermionic tubes; 1,787,082, same, Vacuum-tube making; 1,791,140, 1,991,767, 2,093,567, same, Ther-

Vol. 679 • No. 1 Tuesday, February 2, 1954 Price $30.00 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $30.00 per annum, foreign mailing $8.50 additional; single numbers, 75 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

The TRADE-MARK SUPPLEMENT to the OFFICIAL GAZETTE, issued weekly, subscription price, $19.00 per annum; single copies, 45 cents each. DECISION LEAFLETS, subscription price, $3.75 per year; single copies, 10 cents each.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

mionic tube; 1,806,109, same, Amplification of electrical currents; 1,819,783, same, Radio circuits employing alternating current radio tubes; 1,937,706, same, Seal for vitreous articles, filed July 9, 1942, D. C. Del. (Wilmington), Doc. 260, *L. M. Berghane* v. *R. C. A.* Patents 1,615,093, 1,677,900, 1,787,082, 1,806,109, 1,819,783, 1,991,767, and 2,093,567 held invalid Oct. 22, 1953—order of dismissal without prejudice as to 1,549,591, 1,615,022, 1,759,910, 1,791,140, and 1,937,706, and with prejudice as to the seven McCullough patents Nov. 13, 1953.

1,615,022. (See 1,549,591.) 1,615,093. (See 1,549,591.)

1,677,900. (See 1,549,591.) 1,759,910. (See 1,549,591.)

1,787,082. (See 1,549,591.) 1,791,140. (See 1,549,591.)

1,806,109. (See 1,549,591.) 1,819,783. (See 1,549,591.)

1,937,706. (See 1,549,591.) 1,991,767. (See 1,549,591.)

2,093,567. (See 1,549,591.)

2,142,336, J. L. Selinger, Elastic smocking, filed May 24, 1949, D. C., S. D. N. Y., Doc. 50/332, *Morris-Weiner* v. *Queen Knitting Mills*. Order dismissing cause for lack of prosecution (notice Nov. 10, 1953).

2,230,402, J. L. Getaz, Knitted stocking; 2,344,350, same, Hosiery; 2,306,246, R. E. Davis, Knitted wear, filed Nov. 5, 1953, D. C., E. D. Tenn. (Chattanooga), Doc. 2182, *Richmond Hosiery Mills* v. *The Davis Co.*

2,264,194, J. V. Wuestman, Advertising pencil, pen, filed Apr. 27, 1950, D. C., S. D. N. Y., Doc. 57/342, *Secretary Pen Company, Inc., et al.* v. *Rich-Marc Mfg. Co., Inc.* Stipulation and order of discontinuance (notice Nov. 13, 1953).

2,306,246. (See 2,230,402.)

2,310,058, Des. 144,681, Bolten & Spitz, Garment hanger, filed Feb. 6, 1950, D. C., S. D. N. Y., Doc. 55/326, *Henry Hanger Company of America, Inc.* v. *Barney Stempler & Sons, Inc.* Stipulation and order of discontinuance (notice Nov. 16, 1953).

2,320,706. (See 2,499,333.) 2,344,350. (See 2,230,402.)

2,478,533, H. I. Huff, Water-cooling attachment for projection arc lamps; 2,495,970, same, Carbon cooler for arc lamps, filed Jan. 23, 1951, D. C., S. D. Calif. (Los Angeles), Doc. 12801-T, *Hal I. Huff Mfg. Co.* v. *B. F. Shearer Co. of Calif., et al.* Stipulation dismissing action without prejudice Oct. 22, 1953.

2,495,970. (See 2,478,533.)

2,499,333, G. Schulein, Spring packing; 2,320,706, Ripley & Gibbs, Spring-filled packing, filed Aug. 1, 1950, D. C., N. D. Ill. (Chicago), Doc. 50C1097, *National Waste Co., Inc.* v. *Spring Packing Corp.* Cause including complaint, amendment to complaint, and counter-claim dismissed Nov. 6, 1953.

2,528,747, C. P. Travelle, Automatic filling nozzle, filed Nov. 13, 1953, D. C., N. D. Ill. (Chicago), Doc. —, *C. P. Gravelle* v. *Weil Sales & Service Co.*

2,558,241, M. Eller, Weed chopper; 2,574,468, M. G. Denton, Stalk cutter, filed Nov. 10, 1953, D. C., S. D. Fla. (Tampa), Doc. 2417, *Marlin Eller* v. *Marion G. Denton.*

2,574,468. (See 2,558,241.)

2,608,777, F. G. Schuler, Price tag and molding trim, filed Nov. 12, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30646, *George Spencer* v. *Youngstown Mfg., Inc.*

2,625,089, 2,625,090, 2,625,091, H. A. Pursche, Two-way plow; 2,633,786, same, Tractor mounted two-way plow; 2,655,851, same, Two-way plow construction, filed Nov. 3, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 16005-PH, *Harry A. Pursche* v. *Atlas Scraper & Engineering Co.*

2,625,090. (See 2,625,089.) 2,625,091. (See 2,625,089.)

2,633,368, W. Ross, Stabilizer device for vehicles, filed Apr. 16, 1953, D. C., N. D. Ill. (Chicago), Doc. 53C944, *Gyro Skid-Control Co., Inc.* v. *States Development & Mfg. Co. et al.* Cause dismissed with prejudice (notice Nov. 13, 1953).

2,633,786. (See 2,625,089.)

2,645,288, Deters & Butler, Back circulator device, filed July 28, 1953, D. C. Kans. (Wichita), Doc. W-638, *Johnston Testers, Inc.* v. *Western Testers, Inc., et al.* Patent held valid and infringed; injunction to issue (notice Nov. 11, 1953).

2,655,851. (See 2,625,089.)

Des. 144,681. (See 2,310,058.)

Des. 165,399, J. Siegel, Lady's stocking, filed Aug. 13, 1953, D. C., S. D. N. Y., Doc. 87/171, *Lambert Hosiery Mills, Inc., et al.* v. *Penn Maid Hosiery Mills, Inc., et al.* Stipulation of dismissal Nov. 12, 1953.

Des. 166,174, W. H. Crawford, Check stand; Des. 166,193, F. W. Hartup, same; T. M. 580,515, Modern Village Stores, Inc., Automatic check stands for grocery stores, suit for Declaratory Judgment filed Nov. 2, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 16000-T, *Benj. F. Wininger & Son, Inc.* v. *Modern Village Stores, Inc.*

Des. 166,193. (See Des. 166,174.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 54,234, T. B. Fitzpatrick, Wearing apparel—namely, underwaists for women and children; T. M. 147,308, The E-Z Waist Company, Underwaists, unionsuits, and sleeping-garments; T. M. 148,401, same, Underwear—namely, sleeping-garments; T. M. 222,107, same, Union suits of both knitted and textile fabric; T. M. 317,682, same, Underwear—namely, children's knitted underwear, filed Nov. 12, 1953, D. C., S. D. N. Y., Doc. 89/155, *International Latex Corp.* v. *E-Z Mills, Inc.*

T. M. 147,308. (See T. M. 54,234.)

T. M. 148,401. (See T. M. 54,234.)

T. M. 222,107. (See T. M. 54,234.)

T. M. 317,682. (See T. M. 54,234.)

T. M. 390,794, S. Augstein & Co., Sweaters, bathing suits, scarfs, etc., filed Aug. 3, 1953, D. C., S. D. N. Y., Doc. 87/53, *S. Augstein & Co., Inc.* v. *Smith-Altschuler Co., Inc., et al.* Stipulation and order enjoining defendants Nov. 10, 1953.

T. M. 551,474, Looz, Inc., Saline cathartic, filed Oct. 17, 1952, D. C., S. D. Calif. (Los Angeles), Doc. 14617-T. *Looz, Inc.* v. *Pounds Off Products et al.* Consent judgment holding trade-mark "Looz" valid; plaintiff waives right for injunctive relief, cross-complaints dismissed (notice Nov. 3, 1953).

T. M. 580,515. (See Des. 166,174.)

NOTICES

Cancellation Notice

[6110]

Fred R. Wilkin, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Advance Glove Manufacturing Co., 901 West Lafayette Boulevard, Detroit 26, Michigan, to effect the cancellation of trade-mark registration of Fred R. Wilkin, 2929 South Cicero Avenue, Cicero, Illinois: No. 361,885, dated July 11, 1938, and the notice of such proceeding sent by registered mail to the said Fred R. Wilkin, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Fred R. Wilkin, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Jan. 26.)

DAPHNE LEEDS,
Assistant Commissioner of Patents.

Jan. 5, 1954.

Adjudicated Patents

(D. C. Del.) McCullough Patent No. 1,615,093, for a high vacuum space discharge device and gas accumulator therefor. Claim 1 *Held* invalid. *Berghane* v. *Radio Corporation of America*, 116 F. Supp. 200; 99 USPQ 264.

(D. C. Del.) McCullough Patent No. 1,677,900, for a method of degasifying radio tubes. Claims 1 and 3 *Held* invalid. *Id.*

(D. C. Del.) McCullough Patent No. 1,787,082, for a vacuum tube. Claim 1 *Held* invalid. *Id.*

(D. C. Del.) McCullough Patent No. 1,806,109, for amplification of electrical circuits. Claim 2 *Held* invalid. *Id.*

(D. C. Del.) McCullough Patent No. 1,819,783, for radio circuits employing alternating current radio tubes. Claims 3 and 5 *Held* invalid. *Id.*

(D. C. Del.) McCullough Patent No. 1,991,767, for a thermionic tube. Claim 3 *Held* invalid. *Id.*

(D. C. Del.) McCullough Patent No. 2,093,567, for thermionic tubes and the manufacture therefor. Claim 5 *Held* invalid. *Id.*

Disclaimer

2,340,210.—*Joseph B. Armitage*, Wauwatosa, Wis., and *Howard W. Bartholomew*, Pottstown, Pa. MILLING MACHINE. Patent dated Jan. 25, 1944. Disclaimer filed Jan. 4, 1954, by the assignee, *Kearney & Trecker Corporation.*

Hereby enters this disclaimer to claim 26 of said patent.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

American Telephone and Telegraph Company has placed 222 patents on the Register as available for licensing on reasonable terms, in addition to the more than 10,000 patents previously registered and listed. A statement of the company's policy in licensing its patents was published in the *Register* section of the OFFICIAL GAZETTE, Feb. 15, 1949.

Inquiries concerning licenses should be addressed to: Patent Licensing Division, Western Electric Company, Inc., 195 Broadway, New York 7, N. Y., acting as agent for the American Telephone and Telegraph Company.

The majority of the patents relate generally to communications and allied fields. The listing began in the OFFICIAL GAZETTE, Jan. 26, 1954, and is completed in this issue.

THERMISTORS AND THEIR FABRICATION AND THERMISTOR CIRCUITS

(Groups 35—69; 36—19—61—62)

Pat. 2,621,277. Severing Metallic Material. Dec. 9, 1952. Apparatus for severing metallic material for use in the manufacture of thermistors. Reg. No. 52,493.

Pat. 2,625,606. Thermistor Control Circuit. Jan. 13, 1953. Reg. No. 52,494.

Pat. 2,633,521. High Temperature Coefficient Resistor and Method of Making It. Mar. 31, 1953. Reg. No. 52,495.

CABLES, CONDUCTORS, COILS, CONNECTORS, AND TERMINALS AND APPARATUS FOR USE IN THEIR MANUFACTURE

(Groups 35—66—69; 36—11—19—31)

Pat. 2,613,426. Advancing Electrical Cordage. Oct. 14, 1952. Reg. No. 52,496.

Pat. 2,613,427. Article Forming Apparatus. Oct. 14, 1952. Reg. No. 52,497.

Pat. 2,619,518. Cable Terminal. Nov. 25, 1952. Reg. No. 52,498.

Pat. 2,622,554. Apparatus for Spraying Terminals Onto the Ends of Wound Condensers. Dec. 23, 1952. Reg. No. 52,499.

Pat. 2,622,820. Apparatus for Handling Strip Material. Dec. 23, 1952. Reg. No. 52,500.

Pat. 2,622,821. Clutch for Reels. Dec. 23, 1952. Reg. No. 52,501.

Pat. 2,624,771. Collapsible Coiling Head for Electrically Contacting Insulated Cable. Jan. 6, 1953. Reg. No. 52,502.

Pat. 2,626,111. Takeup Apparatus. Jan. 20, 1953. Reg. No. 52,503.

Pat. 2,626,302. Cable With Weakened Stripping Plane. Jan. 20, 1953. Reg. No. 52,504.

Pat. 2,626,821. Locking Type Clutch. Jan. 27, 1953. Reg. No. 52,505.

Pat. 2,626,973. Grounding Terminal. Jan. 27, 1953. Reg. No. 52,506.

Pat. 2,628,040. Handling Coils of Strand Material. Feb. 10, 1953. Reg. No. 52,507.

Pat. 2,628,263. Quick Detachable Connector for Interconnecting Terminals. Feb. 10, 1953. Reg. No. 52,508.

Pat. 2,628,936. Forming a Point at the End of a Wire. Feb. 17, 1953. Reg. No. 52,509.

Pat. 2,628,996. Extensible Folded Terminal for Electrical Coils. Feb. 17, 1953. Reg. No. 52,510.

Pat. 2,629,024. Unbalanced-to-Ground Two-to-Four-Wire Connection. Feb. 17, 1953. Reg. No. 52,511.

Pat. 2,629,921. Method of Sheathing Cable Cores. Mar. 3, 1953. Reg. No. 52,512.

Pat. 2,630,156. Terminal Forming Fixture. Mar. 3, 1953. Reg. No. 52,513.

Pat. 2,630,489. Wave Guide Joint. Mar. 3, 1953. Reg. No. 52,514.

Pat. 2,630,970. Counting Apparatus. Mar. 10, 1953. Reg. No. 52,515.

MEASURING, TESTING AND INDICATING APPARATUS

(Groups 35—65; 36—13)

Pat. 2,614,152. Dielectric Test Circuit. Oct. 14, 1952. Reg. No. 52,516.

Pat. 2,614,200. Leak Detector for Immersion Heaters. Oct. 14, 1952. Reg. No. 52,517.

Pat. 2,615,961. Magnetic Testing System. Oct. 28, 1952. Reg. No. 52,518.

Pat. 2,617,527. Loading and Selectively Unloading. Nov. 11, 1952. Reg. No. 52,519.

Pat. 2,617,843. Power Measurements at High Frequencies. Nov. 11, 1952. Reg. No. 52,520.

Pat. 2,617,853. Measuring Impedance Mismatch. Nov. 11, 1952. Reg. No. 52,521.

Pat. 2,617,855. Automatic Measurement of Transmission Characteristics. Nov. 11, 1952. Reg. No. 52,522.

Pat. 2,618,686. Distortion Indicator. Nov. 18, 1952. Reg. No. 52,523.

Pat. 2,622,127. Indicating Apparatus. Dec. 16, 1952. Reg. No. 52,524.

Pat. 2,623,100. Apparatus for Testing Insulation. Dec. 23, 1952. Reg. No. 52,525.

Pat. 2,624,805. Telegraph Signal Distortion Measuring. Jan. 6, 1953. Reg. No. 52,526.

Pat. 2,625,586. Measuring Gas Pressures. Jan. 13, 1953. Reg. No. 52,527.

Pat. 2,625,589. Measuring Phase and Gain. Jan. 13, 1953. Reg. No. 52,528.

Pat. 2,625,608. Open Telegraph Line Indicator. Jan. 13, 1953. Reg. No. 52,529.

Pat. 2,626,306. Transmission Delay Measuring System. Jan. 20, 1953. Reg. No. 52,530.

Pat. 2,626,523. Spring Contact Testing Apparatus. Jan. 27, 1953. Reg. No. 52,531.

Pat. 2,626,980. Electronic Curve Tracer. Jan. 27, 1953. Reg. No. 52,532.

Pat. 2,626,983. Magnetic Testing Apparatus. Jan. 27, 1953. Reg. No. 52,533.

Pat. 2,627,541. Determination of Pitch Frequency of Complex Waves. Feb. 3, 1953. Reg. No. 52,534.

Pat. 2,627,664. Gauge for Checking Parts in Cylindrical Articles. Feb. 10, 1953. Reg. No. 52,535.

Pat. 2,628,999. Continuity, Polarity, and Breakdown Test Device. Feb. 17, 1953. Reg. No. 52,536.

Pat. 2,629,778. Visual Representation of Complex Waves. Feb. 24, 1953. Reg. No. 52,537.

Pat. 2,633,027. Testing Flow Characteristics of Granular Materials. Mar. 31, 1953. Reg. No. 52,538.

Pat. 2,633,565. Armature Loading and Position Indicating Apparatus. Mar. 31, 1953. Reg. No. 52,539.

PLASTICS EXTRUSION COMPOUNDS AND EXTRUDING APPARATUS

(Groups 28—83; 35—69)

Pat. 2,615,204. Processing Sulphur Vulcanizable Elastomer Compounds. Oct. 28, 1952. Reg. No. 52,540.

Pat. 2,615,205. Processing Vulcanizable Elastomer Compounds. Oct. 28, 1952. Reg. No. 52,541.

Pat. 2,622,469. Controlling the Temperature of Plastic Material. Dec. 23, 1952. Reg. No. 52,542.

Pat. 2,626,427. Controlling the Plasticity of Extrudable Materials in an Extruding Apparatus. Jan. 27, 1953. Reg. No. 52,543.

ELECTRICIANS' TOOLS

(Group 33—52)

Pat. 2,616,172. Slitter for Cable Coverings. Nov. 4, 1952. Reg. No. 52,544.

Pat. 2,624,221. Sheath Stripper for Cables Having Twisted Conductors. Jan. 6, 1953. A bushing carrying a cutter blade revolves so that the blade will follow a helical path to slit the sheath as the cable is manually pulled through the stripper. Reg. No. 52,545.

Pat. 2,627,769. Swaging Pliers for Electrical Connections. Feb. 10, 1953. For effecting a solderless connection between electrical conductors. Reg. No. 52,546.

DIES

(Group 35—43)

Pat. 2,623,417. Forming Dies. Dec. 30, 1952. Method of reconditioning a die of the material blanking type. Reg. No. 52,547.

Pat. 2,630,727. Dies for Forming Reference Surfaces on Articles Circular in Cross Section. Mar. 10, 1953. Reg. No. 52,548.

Pat. 2,633,234. Die Block for Wire Drawing Machines. Mar. 31, 1953. Reg. No. 52,549.

ACCOUNTING DEVICES FOR PRODUCING CUSTOMER BILLS

(Groups 35—79; 36—82)

Pat. 2,615,628. Automatic Accounting Device. Oct. 28, 1952. Reg. No. 52,550.

Pat. 2,630,269. Automatic Accounting Device. Mar. 3, 1953. Reg. No. 52,551.

Pat. 2,630,270. Automatic Accounting Device. Mar. 3, 1953. Reg. No. 52,552.

BROACHING APPARATUS

(Group 35—41)

Pat. 2,613,484. Grinding Fixtures. Oct. 14, 1952. Reg. No. 52,553.

Pat. 2,626,542. Electrically Operated Safety Interlock Broaching Machine. Jan. 27, 1953. Reg. No. 52,554.

MISCELLANEOUS

Pat. 2,614,463. Grooving Machine. Oct. 21, 1952. For simultaneously removing the mold flash on opposite sides of a telephone handset and cutting grooves in the handle. Groups 35—69; 36—62. Reg. No. 52,555.

Pat. 2,614,516. Article Holding Apparatus. Oct. 21, 1952. For holding synthetic crystals during the soldering of lead wires thereto. Groups 35—69; 36—61—62. Reg. No. 52,556.

Pat. 2,614,707. Conveyor Apparatus. Oct. 21, 1952. For controlling the feeding of molding sand to a series of hoppers in a foundry. Groups 33—21 to 24; 34—41—91. Reg. No. 52,557.

Pat. 2,615,082. Vulcanizing Apparatus. Oct. 21, 1952. Signalling and controlling system for electrically heated vulcanizing apparatus. Group 35—69. Reg. No. 52,558.

Pat. 2,615,857. Polyethylene-Polyisobutylene Composition. Oct. 28, 1952. Particularly adapted to the potting or embedding of germanium point contacts and the like. Group 28—83. Reg. No. 52,559.

Pat. 2,616,625. Electrical Computing System. Nov. 4, 1952. For tracking a target, particularly useful as a torpedo director. Group 36—62. Reg. No. 52,560.

Pat. 2,616,627. Counter Circuit. Nov. 4, 1952. Electron tube counting circuit capable of being stepped in either direction to add and subtract. Groups 35—79; 36—19. Reg. No. 52,561.

Pat. 2,616,993. Pretensioned Spring. Nov. 4, 1952. Cantilever contact spring for electrical switching apparatus. Group 36—19. Reg. No. 52,562.

Pat. 2,617,174. Rivet-Stud Removing Mechanism. Nov. 11, 1952. For shearing the projecting end of a stud riveted to a relay and pressing the riveted portion therefrom. Group 35—42. Reg. No. 52,563.

Pat. 2,617,289. Key-Actuated Double Custody Lock. Nov. 11, 1952. Lock operable by sequential manipulation of a number of keys. Group 33—59. Reg. No. 52,564.

Pat. 2,619,274. Fluid Feeding Apparatus. Nov. 25, 1952. For feeding measured quantities of mercury into successive articles, such as mercury switches. Groups 35—69; 36—19. Reg. No. 52,565.

Re. 23,601. Error Detecting and Correcting System. Dec. 23, 1952. (Original Patent 2,552,629, May 15, 1951) For correcting received information encoded in permutation code. Group 36—62. Reg. No. 52,566.

The following two patents relate to the embedding of glass beads in silver chloride plates used in sea water batteries. Groups 35—69; 36—91.

Pat. 2,622,271. Machine for Beading Silver Chloride Plates. Dec. 23, 1952. Reg. No. 52,567.

Pat. 2,622,272. Beading Silver Chloride Sheets. Dec. 23, 1952. Reg. No. 52,568.

Pat. 2,622,653. Material Forming Apparatus. Dec. 23, 1952. Metal bending apparatus having a safety control device. Group 35—42. Reg. No. 52,569.

Pat. 2,622,654. Article Straightening Machine. Dec. 23, 1952. For straightening bent cylindrical articles, such as vacuum tube leads. Group 35—42. Reg. No. 52,570.

Pat. 2,622,990. Manufacturing Number Plates. Dec. 23, 1952. Method of making transparent plastic number plates for dials. Groups 36—61—62; 39—81. Reg. No. 52,571.

Pat. 2,623,489. Holding Container Parts for Assembly. Dec. 30, 1952. Such containers are used for housing small electrical units. Group 36—19—61—62. Reg. No. 52,572.

Pat. 2,623,701. Apparatus for Winding Filaments. Dec. 30, 1952. For winding a plurality of strands into a cop without twisting the strands and without crossover of the strands. Groups 35—69; 36—99. Reg. No. 52,573.

Pat. 2,624,434. Clutch. Jan. 6, 1953. For printing telegraph apparatus. Groups 35—66; 36—62. Reg. No. 52,574.

Pat. 2,625,233. Fitting Hearing Aids. Jan. 13, 1953. Method of fitting a person with a hearing aid. Group 36—62. Reg. No. 52,575.

Pat. 2,626,093. Handling Materials. Jan. 20, 1953. Apparatus for funneling materials into containers and weighing the materials. Group 35—69. Reg. No. 52,576.

Pat. 2,627,780. Optical Projecting Comparator. Feb. 10, 1953. For comparing similar elemental areas of two photographic message records. Group 36—62. Reg. No. 52,577.

Pat. 2,628,204. Method and Apparatus for Mixing Materials. Feb. 10, 1953. For mixing and plasticizing thermoplastic materials. Group 28—83. Reg. No. 52,578.

Pat. 2,630,465. Control for Stepping Mechanism. Mar. 3, 1953. Control for stepping mechanism of a rotary switch. Group 36—11—19. Reg. No. 52,579.

Pat. 2,631,118. Method of Producing Soft Magnetic Materials. Mar. 10, 1953. Group 36—19. Reg. No. 52,580.

Pat. 2,631,714. Rotary Hopper for Orienting Transmitter Caps. Mar. 17, 1953. For receiving quantities of haphazardly positioned caps and re-arranging and discharging them in a predetermined oriented relation to one another. Group 36—19. Reg. No. 52,581.

Pat. 2,632,081. Arc Welding Apparatus. Mar. 17, 1953. For welding a circular cover plate to the flanged open end of a container in the presence of an inert atmosphere to form a housing for enclosing a plurality of loading coils. Group 36—19. Reg. No. 52,582.

Pat. 2,632,082. Soldering Fixture for Fuses. Mar. 17, 1953. For heating and supporting a pool of solder for use in soldering fuse wires into the terminal ends of tubular fuses. Group 36—21. Reg. No. 52,583.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Alexander Bros. Company, Savannah, Ga. Overalls and dungarees. Serial No. 642,336, Feb. 2. Class 39.

American Communications Corporation, New York, N. Y. Central control electric and electronic distribution systems. Serial No. 590,343, Feb. 2. Class 21.

Armorlite Lens Company, Inc., The, Pasadena, Calif. Lenses, goggles, optical prisms, etc. Serial No. 620,332, Feb. 2. Class 26.

Arvey Corporation, Chicago, Ill. Mailing envelopes. Serial No. 650,614, Feb. 2. Class 37.

Atlas Supply Company, Newark, N. J. Storage batteries. Serial No. 649,918, Feb. 2. Class 21.

Automatic Draft & Stove Co., Inc., Lynchburg, Va. Heating systems. Serial No. 638,055, Feb. 2. Class 34.

Automatic Steam Products Corp., New York, N. Y. Electric steam generators. Serial No. 649,558, Feb. 2. Class 21.

Automotive Materials Corporation, Detroit, Mich. Polishing discs. Serial No. 648,279, Feb. 2. Class 23.

Bausch & Lomb Optical Company, Rochester, N. Y. Sunglasses and ophthalmic lenses. Serial No. 650,767, Feb. 2. Class 26.

Bausch & Lomb Optical Company, Rochester, N. Y. Job standard profile templets. Serial No. 650,768, Feb. 2. Class 26.

Bayshore Industries, Inc., Elkton, Md. Toy rubber ballons. Serial No. 652,093, Feb. 2. Class 22.

Beacon Manufacturing Company, Swannanoa, N. C. Blankets and blanket goods, bed comfortables, etc. Serial No. 651,087, Feb. 2. Class 42.

Bear Brand Hosiery Co., Chicago, Ill. Children's hosiery. Serial No. 642,729, Feb. 2. Class 39.

Beaunit Mills, Inc., New York, N. Y. Thread and yarn. Serial Nos. 648,469–71, Feb. 2. Class 43.

Beaunit Mills, Inc., New York, N. Y. Thread and yarn. Serial No. 648,475, Feb. 2. Class 43.

Beautiful Bryans, Inc., Chattanooga, Tenn. Hosiery. Serial No. 650,864, Feb. 2. Class 39.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Artificial bait, fishing floats, fishing sinkers, etc. Serial No. 630,697, Feb. 2. Class 22.

Benchcraft, Inc., St. Louis, Mo. Work benches. Serial No. 643,457, Feb. 2. Class 23.

Berger, Irving, doing business as Trimline Tackle Company, New York, N. Y. Fishing kit. Serial No. 645,225, Feb. 2. Class 22.

Bomber Bait Company, Gainesville, Tex. Artificial fishing lures. Serial No. 640,905, Feb. 2. Class 22.

Bostitch, Inc., Providence, R. I., and Pawcatuck, Stonington, Conn. Stapling machines. Serial No. 650,480, Feb. 2. Class 23.

Bridgeport Insulated Wire Co., The, Bridgeport, Conn. Electrical insulated wire. Serial No. 634,680, Feb. 2. Class 21.

Bronson, Robert U., Eugene, Oreg. Game. Serial No. 648,077, Feb. 2. Class 22.

Capehart-Farnsworth Corporation, Wilmington, Del., and Fort Wayne, Ind. Domestic television receiving sets. Serial No. 642,063, Feb. 2. Class 21.

Carthage Mills Incorporated, Carthage, Cincinnati, Ohio. Coated felt base material used for wall covering. Serial No. 644,897, Feb. 2. Class 20.

Carwan Woolen Corporation, New York, N. Y. Cashmere blankets. Serial No. 640,610, Feb. 2. Class 42.

Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Ladies' hosiery. Serial No. 650,246, Feb. 2. Class 39.

Cleaver-Brooks Company, Milwaukee, Wis. Steam boilers, water heaters, tank car heaters, etc. Serial No. 619,230, Feb. 2. Class 34.

Cleaver-Brooks Company, Milwaukee, Wis. Steam boilers, water heaters, tank car heaters, etc. Serial No. 639,869, Feb. 2. Class 34.

Cohan & Roth, Incorporated, New York, N. Y. Neckwear. Serial No. 639,871, Feb. 2. Class 39.

Cook Machinery Co. Inc., Dallas, Tex. Laundry washing machines. Serial No. 635,587, Feb. 2. Class 24.

Cooper, Raymond D., and W. P. Hoy, San Francisco, Calif. Adjustable card separator and support plates for filing drawers. Serial No. 640,549, Feb. 2. Class 32.

Cortland Line Company, Inc., Cortland, N. Y. Fish lines. Serial No. 641,439, Feb. 2. Class 22.

Cory Corporation, operating under the name of Fresh'nd-Aire Company Division of Cory Corporation, Chicago, Ill. Portable, electrically operated and electrically heated, air circulators. Serial No. 609,397, Feb. 2. Class 21.

Craftool Co.: *See*—
McGahen, Richard H.

Creighton and Partners Limited, London, England. Electro-mechanical apparatus for inspecting and sorting seeds, etc. Serial No. 634,776, Feb. 2. Class 26.

Dan River Mills, Incorporated, Danville, Va. Bed sheets. Serial No. 650,580, Feb. 2. Class 42.

Dan River Mills, Incorporated, Danville, Va. Piece goods. Serial No. 651,159, Feb. 2. Class 42.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. Serial Nos. 650,785–6, Feb. 2. Class 42.

Demornay-Bonardi, Inc., Burbank, Calif. Microwave equipment. Serial No. 630,393, Feb. 2. Class 21.

Dixon, Jeane L., Washington, D. C. Stuffed animal-like toys. Serial No. 652,173, Feb. 2. Class 22.

Du Barry Distributing Corp., Brooklyn, N. Y. Wigs for dolls. Serial No. 635,820, Feb. 2. Class 22.

Eagle Lock Company, The, Terryville, Conn. Locks. Serial No. 648,596, Feb. 2. Class 25.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photocopying apparatus, sensitized photographic paper, and thermometers. Serial No. 634,188, Feb. 2. Class 26.

Electronic Tube Corporation, Wyndmoor, Pa. Electronic instruments for measuring vibration, strain and dynamic stresses, etc. Serial No. 623,406, Feb. 2. Class 26.

Enco Manufacturing Company, Chicago, Ill. Magnetic base tools. Serial No. 647,399, Feb. 2. Class 21.

Eugene of Los Angeles, Los Angeles, Calif. Shadow boxes. Serial No. 650,164, Feb. 2. Class 32.

Feldstein, Morris, & Son, Inc., New York, N. Y. Men's, women's and children's leather soles, top lifts and heels. Serial No. 632,295, Feb. 2. Class 39.

Film Council of America, The, Evanston, Ill. Periodicals. Serial No. 648,658, Feb. 2. Class 38.

Ford Motor Company, Dearborn, Mich. Motor cars. Serial No. 652,518, Feb. 2. Class 19.

Forse Equipment Corporation, Anderson, Ind. Steam and vacuum pressing machines. Serial No. 634,404, Feb. 2. Class 24.

Frenchy Radio Manufacturing Company, Scranton, Pa. Television antenna. Serial No. 650,587, Feb. 2. Class 21.

Fresh'nd-Aire Company Division of Cory Corporation: *See*—
Cory Corporation.

Friedrich, Ed, Incorporated, San Antonio, Tex. Room air conditioner units. Serial No. 644,968, Feb. 2. Class 34.

Frontier Manufacturing Co.: *See*—
La Caille, E. H.

Gabsom Company, Inc., The, New York, N. Y. Cotton textile fabrics. Serial No. 650,101, Feb. 2. Class 42.

Gate City Steel Works, Inc., Omaha, Nebr. Farm equipment. Serial No. 622,299, Feb. 2. Class 23.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. Serial No. 637,651, Feb. 2. Class 28.

General Cable Corporation, New York, N. Y. Weatherproof and insulated electric wires and cables. Serial No. 651,046, Feb. 2. Class 21.

General Motors Corporation, Detroit, Mich. Shock absorbers, cushioning devices, namely, suspensions, and parts thereof for vehicles. Serial No. 641,183, Feb. 2. Class 19.

Gladding, B. F., & Company, Inc., South Otselic, N. Y. Fishing lines. Serial No. 645,979, Feb. 2. Class 22.

Glenhaven Ltd., Baltimore, Md. Women's wearing apparel. Serial No. 651,331, Feb. 2. Class 39.

Golding Bros. Company, Inc., New York, N. Y. Piece goods. Serial No. 647,617, Feb. 2. Class 42.

Gretener, Edgar, A. G., Zurich, Switzerland. Electrical apparatus for use in physics and television. Serial Nos. 633,578–9, Feb. 2. Class 21.

Grove Silk Company, Dunmore, Pa. Yarns. Serial No. 642,220, Feb. 2. Class 43.

Hagger Company, Dallas, Tex. Men's slacks. Serial No. 650,629, Feb. 2. Class 39.

Hanes Hosiery Mills Company, Winston-Salem, N. C. Ladies' hosiery. Serial No. 650,706, Feb. 2. Class 39.

Healey, Lee, Company, Glendale, Calif. Rubber impeller pumps. Serial No. 651,111, Feb. 2. Class 23.

Heller, L., & Son, Inc., New York, N. Y. Pearls and imitation pearls, strings of pearls and imitation pearls, etc. Serial No. 648,104, Feb. 2. Class 28.

Hemenway, William C., Lincolnville Beach, Maine. Small boats. Serial No. 634,785, Feb. 2. Class 19.

Hogsett, Robert N., Jr., Hartsdale, N. Y. Drilling and reaming chart. Serial No. 633,365, Feb. 2. Class 26.

Home Comfort Mfg. Co., Peoria, Ill. Prefabricated cupolatype ventilators. Serial No. 647,292, Feb. 2. Class 34.

House of Worsted-Tex, Inc., Baltimore, Md., and Philadelphia, Pa. Men's and young men's suits, coats, vests, etc. Serial No. 611,131, Feb. 2. Class 39.

Hoy, William P.: *See*—
Cooper, Raymond D., and Hoy.

Hudson Engineering Corporation, Houston, Tex. Air cooled heat exchangers. Serial No. 634,691, Feb. 2. Class 34.

Hudson Motor Car Company, Detroit, Mich. Automobiles and automobile bodies. Serial No. 646,131, Feb. 2. Class 19.

Hughes, Luther J., doing business as Hughes Trailer Company, Kenhorst, Reading, Pa. Commercial trailers. Serial No. 653,763, Feb. 2. Class 19.

Hughes Trailer Company: *See*—
Hughes, Luther J.

Hunt, Rodney, Machine Co., Orange, Mass. Apparatus for evaporating and concentrating liquids. Serial No. 623,416, Feb. 2. Class 34.

Hyman, S. E., Company, The, Fremont, Ohio. Removable textile seat covers for automobiles. Serial No. 617,199, Feb. 2. Class 19.

Industrial Wiping Cloth Co., Inc., Long Island City, N. Y. Industrial wiping cloths. Serial No. 654,897, Feb. 2. Class 29.

Ingold, Hans, Lucerne, Switzerland. Storage cabinets and shelf units. Serial No. 622,776, Feb. 2. Class 32.

International Business Machines Corporation, New York, N. Y. Radio receivers, radio transmitters, microphones, etc. Serial No. 635,768, Feb. 2. Class 21.

International Paper Company, New York, N. Y. Kraft paper. Serial No. 648,177, Feb. 2. Class 37.

Janie Juniors Coats & Suits Inc., New York, N. Y. Misses' coats and suits. Serial No. 630,782, Feb. 2. Class 39.

Jay-Jay Corp., The, St. Louis, Mo. Magazine. Serial No. 649,883, Feb. 2. Class 38.

Kellems, Vivien, Stonington, Conn. Women's dresses. Serial No. 636,713, Feb. 2. Class 39.

Kendall Controls Corporation, Waltham, Mass. Long stroke, deep convolution, constant area diaphragms used as piston seals, etc. Serial No. 636,642, Feb. 2. Class 35.

Kern & Co. Ltd., Aarau, Switzerland. Precision drawing instruments and parts thereof, etc. Serial No. 634,199, Feb. 2. Class 26.

Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik, also named Koh-I-Noor, United Metalware Factories, National Corporation, Prague, Czechoslovakia. Closures and fasteners, shoe rings, crochet hooks and crochet needles, etc. Serial No. 610,567, Feb. 2. Class 40.

Koh-I-Noor, United Metalware Factories, National Corporation: *See*—
Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik.

Kreiss, Sidney J., Inc., New York, N. Y. Ladies' hosiery. Serial No. 650,373, Feb. 2. Class 39.

La Calle, E. H., doing business as Frontier Manufacturing Co., Los Angeles, Calif. Construction kits primarily for hobby use. Serial No. 640,941, Feb. 2. Class 22.

Lovable Brassiere Co., The, Atlanta, Ga. Brassières. Serial No. 651,408, Feb. 2. Class 39.

MacLachlan Hats, Incorporated, South Norwalk, Conn. Men's fur felt and men's straw hats. Serial No. 638,563, Feb. 2. Class 39.

Macon Electronics, Division of York Radio & Television Corp., Decatur, Ill. Radio and television antennas. Serial No. 633,990, Feb. 2. Class 21.

Mallalieu, Frank R., doing business as Transelectric Manufacturing Company, Lower Oxford Township, Chester County, Pa. Telephones and telephone and intercommunication apparatus. Serial No. 623,843, Feb. 2. Class 21.

Manos, M. John, Evanston, Ill. Scraper. Serial No. 628,770, Feb. 2. Class 23.

Mark IV, Inc., Oklahoma City, Okla. Air conditioners for vehicles and parts thereof. Serial No. 652,784, Feb. 2. Class 19.

Marlboro Shirt Company, Inc., Baltimore, Md. Dress, negligee, and sport shirts, slacks, etc. Serial No. 650,379, Feb. 2. Class 39.

Marley Company, Inc., The, Kansas City, Mo. Liquid cooling towers and parts thereof. Serial No. 644,768, Feb. 2. Class 31.

McGahen, Richard H., doing business under the fictitious name of Craftool Co., Los Angeles, Calif. Steel hand tools. Serial No. 614,449, Feb. 2. Class 23.

McKinney Industries, Inc., Chester, Pa. Hobby horses and shoo flys. Serial No. 648,121, Feb. 2. Class 22.

McNulty, John, & Sons Co., Trenton, N. J. Boiler feed units. Serial No. 641,315, Feb. 2. Class 34.

Meldan Company, Inc., Hyde Park (Boston), Mass. Bedroom, dining room and living room furniture. Serial No. 649,169, Feb. 2. Class 32.

Mesberg, B. G., Co.: *See*—
Mesberg, Bernard G.

Mesberg, Bernard G., doing business under the firm name and style of B. G. Mesberg Co., New York, N. Y. Furniture. Serial No. 648,122, Feb. 2. Class 32.

Michaels, Stern & Company, Incorporated, Rochester, N. Y. Men's and youths' topcoats and overcoats. Serial No. 649,807, Feb. 2. Class 39.

Mueller Electric Company, Cleveland, Ohio. Ground clamps for electric ground contact. Serial No. 637,852, Feb. 2. Class 21.

Murphy, Brill and Sahner, Inc., New York, N. Y. Hosiery. Serial No. 648,554, Feb. 2. Class 39.

Murphy, Brill and Sahner, Inc., New York, N. Y. Hosiery. Serial No. 650,723, Feb. 2. Class 39.

N. V. Gerofabriek, Zeist, Netherlands. Precious-metal ware. Serial No. 633,267, Feb. 2. Class 28.

National Sure-Fit Quilting Co., Inc., New York, N. Y. Quilted mattress pads and protectors. Serial No. 631,116, Feb. 2. Class 42.

Nolde and Horst Company, The, Reading, Pa. Men's socks. Serial No. 650,925, Feb. 2. Class 39.

North American Aviation, Inc., Los Angeles, Calif. Airplanes and parts thereof. Serial No. 641,322, Feb. 2. Class 19.

Pachinko Trading Company, New York, N. Y. Mechanical pin ball game. Serial No. 646,231, Feb. 2. Class 22.

Peter Pan Foundations, Inc., New York, N. Y. Brassières. Serial No. 644,630, Feb. 2. Class 39.

Post, Frederick, Company, The, Chicago, Ill. Encased sets of drawing instruments. Serial No. 634,041, Feb. 2. Class 26.

Premier Autoware Company, The, Cleveland, Ohio. Automotive parts and supplies. Serial No. 646,485, Feb. 2. Class 19.

Production and Marketing Company, assignee: *See*—
Production and Marketing Corporation, The.

Production and Marketing Corporation, The, Newtown, assignor, by mesne assignments, to Production and Marketing Company, Bethel, Conn. Scoring devices and turn-tables. Serial No. 652,971, Feb. 2. Class 22.

Pulp Reproduction Company, Milwaukee, Wis. Live bait buckets. Serial No. 639,658, Feb. 2. Class 22.

Pyles Industries, Inc., Detroit, Mich. Viscous liquid flow gun. Serial No. 644,655, Feb. 2. Class 23.

Ranney Refrigerator Company, Greenville, Mich. Containers removably carried on the inner wall of the door of a domestic refrigerator. Serial No. 632,574, Feb. 2. Class 31.

Remington Corporation, Auburn, N. Y. Portable electric dehumidifiers. Serial No. 646,953, Feb. 2. Class 34

Reproducta Co. Inc., New York, N. Y. Greeting cards religious prints, and art prints. Serial No. 644,065 Feb. 2. Class 38.

Rich's Inc., Atlanta, Ga. Men's suits, overcoats, top coats, etc. Serial No. 639,590, Feb. 2. Class 39.

Robins & Brode Co., Detroit, Mich. Hosiery, underwear polo shirts, etc. Serial No. 650,729, Feb. 2. Class 39

Rosenberg, Zoltan, Co., New York, N. Y. Textile fabrics Serial No. 645,434, Feb. 2. Class 42.

Rowe Manufacturing Co., Inc., Whippany, N. J. Combination coin-released mechanisms and change makers Serial No. 557,630, Feb. 2. Class 26.

Schoeneman, J., Inc., Baltimore, Md. Coats, vests trousers, etc. Serial No. 649,614, Feb. 2. Class 39

Schwartz, Claire B., Jenkintown, Pa. Children's dresses Serial No. 651,132, Feb. 2. Class 39.

Schwartz Manufacturing Company, Two Rivers, Wis Polishing cloths. Serial No. 628,963, Feb. 2. Class 29

Scolding Locks Corporation, Appleton, Wis. Bobby pins Serial No. 651,782, Feb. 2. Class 40.

Scripto, Inc., Atlanta, Ga. Pencils, ball point pens, refil units for ball point pens, and erasers. Serial No 649,830, Feb. 2. Class 37.

Sherman Vacuum Equipment Company, Culver City Calif. Vacuum cleaners. Serial No. 649,908, Feb. 2 Class 21.

Shotwell Mfg. Co., The, Chicago, Ill. Marshmallows. Serial No. 589,118, Feb. 2. Class 46.

Silvalyte, Inc., Brooklyn, N. Y. Household and decorative glassware and glass tableware. Serial No. 646,024 Feb. 2. Class 33.

Skyscope Company, Inc., The, New York, N. Y. Astronomical telescopes. Serial No. 640,081, Feb. 2 Class 26.

Societe Anonyme La Soie, Paris, France. Thread and yarn. Serial No. 651,366, Feb. 2. Class 43.

Speedlight Center, New York, N. Y. Photographic electric flash lighting apparatus. Serial No. 633,686, Feb. 2. Class 26.

Sprague Electric Company, North Adams, Mass. Electrical capacitors. Serial No. 650,011, Feb. 2. Class 21.

Sprague Electric Company, North Adams, Mass. Electrical resistors. Serial No. 650,012, Feb. 2. Class 21.

Standard Glove Company: *See*—
Wisan, Louis H.

Steinberg, Alex, San Francisco, Calif. Dresses and for girls' suits and coats. Serial No. 642,706, Feb. 2. Class 39.

Stewart-Warner Corporation, Chicago, Ill. Follower plates for lubricant containers and dispensers. Serial No. 609,323, Feb. 2. Class 23.

Sturtevant Mill Co., Boston, Mass. Machinery, consisting of machines for disintegrating, pulverizing and separating raw materials. Serial No. 650,745, Feb. 2. Class 23.

Superior Fabricators, Inc., Chicago, Ill. Swimming sets. Serial No. 654,080, Feb. 2. Class 22.

Talking Windows, Inc., Columbus, Ohio. Electronic device. Serial No. 649,546, Feb. 2. Class 21.

Talon, Inc., Meadville, Pa. Fictional doll-like characters. Serial No. 622,181, Feb. 2. Class 22.

Tension Envelope Corporation, Kansas City, Mo. Mailing envelopes. Serial No. 641,813, Feb. 2. Class 37.

Thor Corporation, Chicago, Ill. Refrigerators. Serial No. 648,632, Feb. 2. Class 31.

Threads, Incorporated, Gastonia, N. C. Sewing thread. Serial No. 654,615, Feb. 2. Class 43.

Tip-Top Products Company, Omaha, Nebr. Ring comb. Serial No. 650,289, Feb. 2. Class 40.

Toyo Rayon Co., Ltd., Tokyo, Japan. Articles used for fishing, rackets for tennis, squash, and badminton, etc. Serial No. 650,751, Feb. 2. Class 22.

Transelectric Manufacturing Company: *See*—
Mallalieu, Frank R.

Trimline Tackle Company: *See*—
Berger, Irving.

United Elastic Corporation, Easthampton, Mass. Elastic fabric and webbing. Serial No. 633,802, Feb. 2. Class 42.

United States Rubber Company, New York, N. Y. Electrical cable. Serial No. 651,026, Feb. 2. Class 21.

Universal Brassiere & Justrite Corset Co. Inc., New York, N. Y. Corsets, girdles, corselets, and brassières. Serial No. 649,050, Feb. 2. Class 39.

Veneko Tackle Co. Inc., Baltimore, Md. Archery bows. Serial No. 629,268, Feb. 2. Class 22.

Vocaline Company of America, Inc., Old Saybrook, Conn. Motor operated, time controlled electric switches. Serial No. 637,340, Feb. 2. Class 26.

Wamsutta Mills, New Bedford, Mass. Bed sheets, pillow cases, towels and piece goods. Serial No. 642,329, Feb. 2. Class 42.

Weisberg, Harry E., La Habra, Calif. House and camp trailers. Serial No. 652,909, Feb. 2. Class 19.

Weksler Thermometer Corporation, New York, N. Y. Temperature, pressure and humidity indicating, recording, and regulating instruments. Serial No. 648,450, Feb. 2. Class 26.

Welmaid Products, Inc., Chicago, Ill. Ironing table pads and covers, sprinkling shields, pressing cloths, etc. Serial No. 627,025, Feb. 2. Class 24.

Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Heating, lighting, and ventilating appaartus, supplies and parts therefor. Serial No. 637,023, Feb. 2. Class 34.

Wetta-Cure Company, Seattle, Wash. Electrical signaling device. Serial No. 625,935, Feb. 2. Class 21.

Wiedemann, Sarah P., doing business as Sally Wilde, Plymouth Meeting, Pa. Newspaper columns. Serial No. 648,975, Feb. 2. Class 38.

Wilde, Sally: *See*—
Wiedemann, Sarah P.

Willys Motors, Inc., assignee: *See*—
Willys-Overland Motors, Inc.

Willys-Overland Motors, Inc., assignor to Willys Motors, Inc., Toledo, Ohio. Automobiles and structural parts thereof. Serial No. 629,876, Feb. 2. Class 19.

Wilner, Jos. A., & Co., Washington, D. C. Men's suits. Serial No. 649,679, Feb. 2. Class 39.

Winsborough, Sara, Miami Beach, Fla. Newspaper column. Serial No. 651,628, Feb. 2. Class 38.

Wiremold Company, The, West Hartford, Conn. Nonmetallic flexible conduits. Serial No. 650,963, Feb. 2. Class 21.

Wisan, Louis H., doing business as Standard Glove Company, New York, N. Y. Gloves. Serial No. 646,341, Feb. 2. Class 39.

Zenith Radio Corporation, Chicago, Ill. Radio and television receiving sets and parts thereof. Serial No. 632,497, Feb. 2. Class 21.

LIST OF REGISTRANTS OF TRADE-MARKS

Aaron Coffee Company: *See*—
Weiser, Aaron.

Acme Aluminum Alloys, Inc., Dayton, Ohio. Metallic products. 585,191, Feb. 2; Serial No. 614,679, published Nov. 3, 1953. Class 14.

Adanta Novelties Corp., New York, N. Y. Dolls. 585,336, Feb. 2; Serial No. 651,490, published Nov. 3, 1953. Class 22.

Aktiebolaget Multi-Divi, Vikarbyn, Sweden. Bound books. 585,236, Feb. 2; Serial No. 635,802, published Nov. 3, 1953. Class 38.

Aktieselskabet De Forende Bryggerier, Copenhagen, Denmark. Beer. 310,178, renewed Feb. 13, 1954. O. G. Feb. 2. Class 48.

Allied Chemical & Dye Corporation, New York, N. Y. Synthetic thread filaments and synthetic yarn. 585,234, Feb. 2; Serial No. 635,080, published Nov. 3, 1953. Class 43.

Alphaden Company, Inc., The, Chicago, Ill. Vaginal antiseptic. 399,423, Jan. 5, 1943. Republished Feb. 2. Class 18.

American Association of Textile Chemists and Colorists, Lowell, Mass. Laboratory testing apparatus. 585,237, Feb. 2; Serial No. 635,803, published Oct. 13, 1953. Class 26.

American Brake Shoe Company, New York, N. Y. Bare and coated welding rods. 585,221, Feb. 2; Serial No. 632,498, published Nov. 3, 1953. Class 14.

American Glanzstoff Corporation, to North American Rayon Corporation New York, N. Y. Thread and yarn. 304,601, renewed July 11, 1953. O. G. Feb. 2. Class 43.

American Manufacturing Concern, Falconer, N. Y. Bedroom furniture. 585,265–6, Feb. 2; Serial Nos. 643,263–4, published Nov. 3, 1953. Class 32.

American Saw and Manufacturing Company, Springfield, Mass. Pieces or lengths of flat ferrous metal. 585,193, Feb. 2; Serial No. 616,789, published Apr. 28, 1953. Class 14.

American Society of Refrigerating Engineers, The, New York, N. Y. Biennial publication. 304,752, renewed July 18, 1953. O. G. Feb. 2. Class 38.

American Thread Company, The, New York, N. Y. Thread. 585,329. Feb. 2; Serial No. 648,277, published Nov. 10, 1953. Class 43.

American Thread Company, The, New York, N. Y. Thread. 585,324. Feb. 2; Serial No. 647,829, published Nov. 10, 1953. Class 43.

American Tobacco Company, The, New York, N. Y. Cigars, cheroots, and all-tobacco cigarettes. 311,750, renewed Apr. 3, 1954. O. G. Feb. 2. Class 17.

Archd. Campbell, Hone & King Limited, Glasgow, Scotland. Whisky. 307,515, renewed Oct. 24, 1953. O. G. Feb. 2. Class 49.

Archdale Manufacturing Co., Inc., High Point, N. C. Ladies' and girls' panties. 585,350, Feb. 2; Serial No. 632,194. Class 39.

Arliss, Charles, doing business as Premier Plastics Co., Brooklyn, N. Y. Doll. 585,335. Feb. 2; Serial No. 651,381, published Nov. 10, 1953. Class 22.

Armstrong Cork Company, Lancaster, Pa. Flexible plastic wall covering. 585,231. Feb. 2; Serial No. 634,436, published Nov. 3, 1953. Class 20.

Aurora Equipment Company, doing business as Equipto, Aurora, Ill. Metal drawer cabinets. 585,288, Feb. 2; Serial No. 645,615, published Nov. 3, 1953. Class 32.

B-Z-B Honey Company: *See*—
Schumacher, H. H.

Bachmann Bros., Inc., Philadelphia, Pa. Sun glasses. 585,282–3, Feb. 2; Serial Nos. 644,954–5, published Sept. 22, 1953. Class 26.

Bag Service, Inc., Decatur, Ind. Textile bags. 585,233, Feb. 2; Serial No. 625,021, published Oct. 13, 1953. Class 2.

Barbey, John, assignor to Barbey's Inc., to Sunshine Brewing Co., Reading, Pa. Beer, ale, porter, and stout. 307,273, renewed Oct. 24, 1953. O. G. Feb. 2. Class 48.

Barbey's Inc., assignee: *See*—
Barbey, John.

Bauer Alphabets Inc., New York, N. Y. Printing type. 585,269, Feb. 2; Serial No. 643,753, published Nov. 3, 1953. Class 14.

Bausch & Lomb Optical Company, Rochester, N. Y. Objective lenses. 585,201, Feb. 2; Serial No. 625,784, published Aug. 4, 1953. Class 26.

Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle cases. 585,214, Feb. 2; Serial No. 630,751, published Aug. 4, 1953. Class 26.

Begman, Lee Inc., New York, N. Y. Ladies' gloves. 585,289, Feb. 2; Serial No. 645,626, published Nov. 3, 1953. Class 39.

Bellinson, L. & D., Inc., New York, N. Y. Women's, misses' and juniors' dresses, suits, blouses, etc. 585,279, Feb. 2; Serial No. 644,824, published Nov. 10, 1953. Class 39.

Belgard, Austin B., Chicago, Ill. Lenses and frames. 585,195, Feb. 2; Serial No. 620,084, published Aug. 4, 1953. Class 26.

Belisle's Pin-Whiz Co., Wichita, Kans. Bobby pin dispenser. 585,292. Feb. 2; Serial No. 645,859, published Nov. 3, 1953. Class 40.

Best Brewing Corporation: *See*—
Best Malt Products Company.

Best Malt Products Company, to Best Brewing Corporation, Chicago, Ill. Malt beverage. 308,271, renewed Nov. 28, 1953. O. G. Feb. 2. Class 48.

Black Manufacturing Company, The, Seattle, Wash. Men's, boys' and ladies' sport shirts. 585,357, Feb. 2; Serial No. 637,354. Class 39.

Blair Corset Co., Inc., Chicago, Ill. Corselettes. 585,317, Feb. 2; Serial No. 647,753, published Nov. 10, 1953. Class 39.

Bonekemper, Arthur P., doing business as Bonekemper Machine Service, Norristown, Pa. Racks for storage of typed magazines. 585,286. Feb. 2; Serial No. 645,284, published Nov. 10, 1953. Class 32.

Bonekemper Machine Service: *See*—
Bonekemper, Arthur P.

Borg-Warner Corporation, Chicago, Ill. Machines for drying textiles and similar fabrics and parts thereof. 585,318. Feb. 2; Serial No. 647,755, published Nov 10, 1953. Class 24.

Bronze Ego Publishers, Inc., Chicago, Ill. Magazine. 585,280, Feb. 2; Serial No. 644,827, published Nov. 3, 1953. Class 38.

Brookfield Engineering Laboratories, Inc., Stoughton, Mass. Instruments for indicating, recording or controlling viscosity. 585,192, Feb. 2; Serial No. 615,267, published Aug. 11, 1953. Class 26.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigars, cigarettes, smoking tobacco, etc. 585,261, Feb. 2; Serial No. 642,799, published Nov. 3, 1953. Class 17.

Bruin Industries, Colorado Springs, Colo. Moisture indicators. 585,285, Feb. 2; Serial No. 645,101, published Nov. 3, 1953. Class 26.

Burke, Charles I., doing business under the assumed name Burke Flexo-Products Company, Traverse City, Mich. Artificial fish lures. 585,220, Feb. 2; Serial No. 632,464, published Nov. 3, 1953. Class 22.

Burke Flexo-Products Company: *See*—
Burke, Charles I.

Cameto, Leon, doing business under the name and style of Production Foundry Company, Oakland, Calif. Surgical and medical body supports etc. 579,644, Sept. 8, 1953. Corrected. O. G. Feb. 2. Class 44.

Capp, A., & Son Limited, Crayford, Kent, England. Dimension gauges. 585,281, Feb. 2; Serial No. 644,896, published Sept. 22, 1953. Class 26.

Carmo Shoe Manufacturing Company, Union, Mo. Women's shoes. 585,349, Feb. 2; Serial No. 629,554. Class 39.

Carpenter Steel Company, The, Reading, Pa. Steel. 585,277, Feb. 2; Serial No. 644,664, published Nov. 10, 1953. Class 14.

Case Safety Products, Inc., Cleveland, Ohio. Safety goggle lenses and safety glass lenses. 585,213, Feb. 2; Serial No. 630,664, published Aug. 4, 1953. Class 26.

Champion, Roy E., Jackson, Miss. Ladies' shoes. 585,346, Feb. 2; Serial No. 624,392. Class 39.

Chesebrough Manufacturing Company, Consolidated, New York, N. Y. Lubricating oil. 93,425, Sept. 16, 1913. Republished Feb. 2. Class 15.

Chicagoland Publications, Inc., Chicago, Ill. Periodical. 585,363, Feb. 2; Serial No. 646,523. Class 38.

Chicago Roller Skate Company, Chicago, Ill. Roller skates. 585,216, Feb. 2; Serial No. 631,048, published Nov. 10, 1953. Class 22.

Clark Thread Company, The, Newark, N. J., to Coats & Clark Inc., New York, N. Y. Thread and yarn. 310,879, renewed Mar. 13, 1954. O. G. Feb. 2. Class 43.

Classic Plastics, Inc., New Hyde Park, N. Y. Overshoes and caps. 585,353, Feb. 2; Serial No. 633,533. Class 39.

Coats & Clark Inc.: *See*—
Clark Thread Company, The.

Colgate & Co., New York, N. Y., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soaps and soap powders. 95,747, re-renewed Mar. 10, 1954. O. G. Feb. 2. Class 52.

Colgate-Palmolive-Peet Company: *See*—
Colgate & Co.

Collin Street Bakery, Corsicana, Tex. Fruit-cake. 93,826, re-renewed Oct. 21, 1953. O. G. Feb. 2. Class 46.

Comet Model Hobbycraft, Inc., Chicago, Ill. Model airplanes kits and parts thereof. 585,188, Feb. 2; Serial No. 606,852, published Nov. 10, 1953. Class 22.

Commerce Clearing House, Inc., Chicago, Ill. Printed news bulletin. 362,811, Nov. 29, 1938. Republished Feb. 2. Class 38.

Commerce Clearing House, Inc., Chicago, Ill. Magazine. 378,006, May 21, 1940. Republished Feb. 2. Class 38.

Congoleum-Nairn, Inc., assignee: *See*—
Sloane-Blabon Corporation.

Container Corporation of America, Chicago, Ill. Paper board boxes and cartons. 585,247, Feb. 2; Serial No. 637,536, published Nov. 10, 1953. Class 2.

Cook, F. W., Company, Inc., Evansville, Ind. Fermented malt beverages. 307,387, renewed Oct. 24, 1953. O. G. Feb. 2. Class 48.

Cornell Paperboard Products Co., Milwaukee, Wis. One-piece paperboard garment box. 585,290, Feb. 2; Serial No. 645,698, published Nov. 3, 1953. Class 2.

Craine, Inc., Norwich, N. Y. Storage tanks, farm silos, industrial silos, etc. 309,305, renewed Jan. 9, 1954. O. G. Feb. 2. Class 2.

Craine, Inc., Norwich, N. Y. Silos, storage pockets, storage tanks, etc. 309,306, renewed Jan. 9, 1954. O. G. Feb. 2. Class 2.

Craine, Inc., Norwich, N. Y. Silos, storage pockets, storage tanks, etc. 309,506, renewed Jan. 16, 1954. O. G. Feb. 2. Class 2.

Cutler, Jack: *See*—
Metalink Co.

Cwick, Samuel T., Inc., Brooklyn, N. Y. Butter and eggs. 307,197, renewed Oct. 17, 1953. O. G. Feb. 2. Class 46.

Dan River Mills, Incorporated, Danville, Va. Textile fabrics. 585,196, Feb. 2; Serial No. 621,951, published Nov. 10, 1953. Class 42.

Dan River Mills, Incorporated, Danville, Va. Textile fabrics. 585,229, Feb. 2; Serial No. 634,301, published Nov. 10, 1953. Class 42.

Darlene Juniors, Incorporated, Decatur, Ill. Women's and girls' dresses. 585,287, Feb. 2; Serial No. 645,551, published Nov. 3, 1953. Class 39.

David, Roger H., St. Paul, Minn. Mirror for use in practicing golf swing. 585,187, Feb. 2; Serial No. 606,599, published Nov. 3, 1953. Class 22.

Davies & Meacham, to The Patterson-Sargent Company, Cleveland, Ohio. Dry and ready-mixed paints, wall-paints, lacs, etc. 93,699–702, re-renewed Oct. 14, 1953. O. G. Feb. 2. Class 16.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. 585,230, Feb. 2; Serial No. 634,313, published Jan. 13, 1953. Class 42.

Delta Optical Co., Inc., New York, N. Y. Lenses, spectacles and sun glasses. 585,203, Feb. 2; Serial No. 625,974, published Aug. 4, 1953. Class 26.

De Luxe Clock & Mfg. Co., Inc., The, by The Lux Clock Company, Inc., New York, N. Y. Clock cases. 247,269, Sept. 25, 1928. Republished Feb. 2. Class 27.

Denis-Marcus, Inc., New York, N. Y. Textile fabrics. 585,325, Feb. 2; Serial No. 647,837, published Nov. 3, 1953. Class 42.

Device Development Company: *See*—
Ellison, Arnold B.

Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. 95,076–7, re-renewed Feb. 3, 1954. O. G. Feb. 2. Class 23.

Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette chairs. 585,259, Feb. 2; Serial No. 642,738, published Nov. 3, 1953. Class 32.

Duart Manufacturing Co., Ltd., San Francisco, Calif. Electrical heater used with permanent hair waving machines. 326,582, July 30, 1935. Republished Feb. 2. Class 44.

Duart Manufacturing Co., Ltd., San Francisco, Calif. Permanent hair waving oil, permanent hair waving solution, etc. 333,052, Mar. 10, 1936. Republished Feb. 2. Class 51.

Duart Manufacturing Co., Ltd., San Francisco, Calif. Chemical hair waving pads and permanent hair waving solution. 427,437, Feb. 11, 1947. Republished Feb. 2. Classes 44 and 51.

Duriron Company, Inc., The, Dayton, Ohio. Ferrous alloys. 307,715, renewed Oct. 31, 1953. O. G. Feb. 2. Class 14.

Dyer, Robert G., Philadelphia, Pa. Clips to be attached to golf bags for holding cigars, cigarettes, etc. 585,260, Feb. 2; Serial No. 642,746, published Nov. 3, 1953. Class 8.

Eberhardt Manufacturing Co., St. Louis, Mo. Trousers creasers. 585,332, Feb. 2; Serial No. 649,136, published Nov. 10, 1953. Class 24.

Educational Cards, Inc., Detroit, Mich. Educational card game. 585,235, Feb. 2; Serial No. 635,589, published Nov. 3, 1953. Class 22.

Elco Products Corporation, Chicago, Ill., to Schenley Industries, Inc., New York, N. Y. Cordials. 306,650, renewed Sept. 26, 1953. O. G. Feb. 2. Class 49.

Ellison, Arnold B., doing business under the trade name and style of Device Development Company, New York, N. Y. Slide rules. 585,215, Feb. 2; Serial No. 630,998, published Aug. 4, 1953. Class 26.

Emco Porcelain Enamel Co., Inc., Port Chester, N. Y. Assembly of food storage bins. 585,268, Feb. 2; Serial No. 643,670, published Nov. 10, 1953. Class 2.

Enterprise Manufacturing Company, The, Akron, Ohio. Fishing reels. 585,338–9, Feb. 2; Serial Nos. 651,696–7, published Nov. 10, 1953. Class 22.

Equipto: *See*—
Aurora Equipment Company.

Erwin Mills, Inc., Durham, N. C. Bed sheets and pillow cases. 585,270, Feb. 2; Serial No. 644,022, published Nov. 3, 1953. Class 42.

Eureka Manufacturing Company, Inc., Taunton, Mass. Fabric lined cases. 585,271, Feb. 2; Serial No. 644,105, published Nov. 10, 1953. Class 2.

Europa Sales Corporation, New York, N. Y. Toffee. 308,643, renewed Dec. 12, 1953. O. G. Feb. 2. Class 46.

Farm Bureau Mutual Automobile Insurance Company, Columbus, Ohio. Insurance company house organ. 585,186, Feb. 2; Serial No. 598,580, published Nov. 3, 1953. Class 38.

Finch, Jos. S., & Company, to Schenley Industries, Inc., New York, N. Y. Whiskey. 310,928, renewed Mar. 13, 1954. O. G. Feb. 2. Class 49.

Finchley, Inc., New York, N. Y. Men's sport suits. 222,032, Dec. 21, 1926. Republished Feb. 2. Class 39.

Flagg-Utica Corporation: *See*—
Gardiner-Warring Company, Inc.

Fleischer, I., & Sons, Cincinnati, Ohio. Thread. 585,242, Feb. 2; Serial No. 636,354, published Nov. 3, 1953. Class 43.

Flexcel Container Company, Kansas City, Mo. Plastic bottles. 585,207, Feb. 2; Serial No. 628,755, published Nov. 3, 1953. Class 2.

Flite-Tronics, Inc., Burbank, Calif. Aircraft marker beacon receiver. 585,238, Feb. 2; Serial No. 635,911, published Oct. 27, 1953. Class 26.

Folmer Graflex Corporation, The, by Graflex, Inc., Rochester, N. Y. Photographic apparatus. 398,442–3, Oct. 27, 1942. Republished Feb. 2. Class 26.

Folmer Graflex Corporation, The, now by change of name Graflex, Inc., by Graflex, Inc., Rochester, N. Y. Photographic cameras. 416,432, Sept. 11, 1945. Republished Feb. 2. Class 26.

Fredenburgh-Hecht Company, The, Concord, Mass. Liquid medication. 585,343, Feb. 2; Serial No. 619,935. Class 18.

Fuji Photo Optical Co., Ltd., Omiyashi, Saitama Prefecture, Japan. Binoculars. 585,205, Feb. 2; Serial No. 626,506, published Aug. 4, 1953. Class 26.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics. 585,300, Feb. 2; Serial No. 646,611, published Nov. 3, 1953. Class 42.

G & G Company, Perkiomenville, Pa. Insulated bait box. 585,246, Feb. 2; Serial No. 637,308, published Nov. 3, 1953. Class 22.

Galvanic Products Corporation, Valley Stream, N. Y. Electrically operated cigarette lighters. 585,222, Feb. 2; Serial No. 632,561, published Nov. 3, 1953. Class 8.

Garcia, Charles, & Co., Inc., New York, N. Y. Spinning reel. 585,337, Feb. 2; Serial No. 651,653, published Nov. 10, 1953. Class 22.

Gardiner-Warring Company, Inc., Florence, Ala., by Flagg-Utica Corporation, Utica, N. Y. Men's, women's, and children's sweaters, men's, women's, and children's sweat shirts, etc. 304,343, July 4, 1933. Republished Feb. 2. Class 39.

Gardiner-Warring Company, Inc., Florence, Ala., by Flagg-Utica Corporation, Utica, N. Y. Men's and women's sweaters and men's and women's sweat shirts. 304,346, July 4, 1933. Republished Feb. 2. Class 39.

Garfield Publishing Co., Inc., Chicago, Ill. Monthly publications. 585,360, Feb. 2; Serial No. 640,267. Class 38.

Garrett Corporation, The, Los Angeles, Calif. Monthly publication. 585,305, Feb. 2; Serial No. 646,752, published Nov. 3, 1953. Class 38.

Gerraetebau-Anstalt, Balzers, Liechtenstein. Optical mirrors, light filters, interference filters, etc. 585,200, Feb. 2; Serial No. 624,740, published Aug. 4, 1953. Class 26.

Germain Seed & Plant Company, by Germain's, Inc., Los Angeles, Calif. Flower and vegetable seeds. 306,355, Sept. 19, 1933. Republished Feb. 2. Class 1.

Germain's, Inc.: *See*—
Germain Seed & Plant Company.

Gillon, John W., doing business under the name Gillon Products, San Mateo, Calif. Stadimeters. 585,257, Feb. 2; Serial No. 642,543, published Oct. 13, 1953. Class 26.

Gillon Products: *See*—
Gillon, John W.

Gladwin Plastics Co., Atlanta, Ga. Plastic clothes hampers. 585,306, Feb. 2; Serial No. 646,940, published Oct. 27, 1953. Class 2.

Glenmore Distilleries Co., Owensboro, to Glenmore Distilleries Co., Louisville, Ky. Whiskey. 309,473, renewed Jan. 16, 1954. O. G. Feb. 2. Class 49.

Glenmore Distilleries Co., Owensboro, to Glenmore Distilleries Co., Louisville, Ky. Whiskey. 310,855, renewed Mar. 13, 1954. O. G. Feb. 2. Class 49.

Goggins, Juil R., Minneapolis, Minn. Military casket and vault. 585,250, Feb. 2; Serial No. 639,098, published Sept. 15, 1953. Class 2.

Goodman, H., & Sons, Inc., Jersey City, N. J., and New York, N. Y. Barrettes. 585,355, Feb. 2; Serial No. 634,253. Class 40.

Graflex, Inc.: *See*—
Folmer Graflex Corporation, The.

Graflex, Inc., Rochester, N. Y. Photographic lenses. 419,173, Feb. 5, 1946. Republished Feb. 2. Class 26.

Green Thumb Products, Toledo, Ohio. Wheelbarrows and lawn carts. 585,239, Feb. 2; Serial No. 635,965, published Nov. 3, 1953. Class 19.

Green, Ward, Company, New York, N. Y. Girdles. 585,361, Feb. 2; Serial No. 645,209. Class 39.

Grossman, Ralph E., doing business as Picture Craft Company, Decatur, Ill. Toy painting kits. 585,227, Feb. 2; Serial No. 633,978, published Nov. 10, 1953. Class 22.

Guinness, Arthur, Son, & Co., Ltd., London, England. Stout. 547,457, Sept. 4, 1941. Amended. O. G. Feb. 2. Class 48.

Gulf States Paper Corporation, Tuscaloosa, Ala. High wet strength wrapping paper. 585,365–6, Feb. 2; Serial Nos. 650,801–2. Class 37.

Hartford Battery Corporation, Waltham, Mass. Storage batteries and parts therefor. 585,364, Feb. 2; Serial No. 650,305. Class 21.

Hercules Powder Company, Wilmington, Del. Dynamite. 95,099, Feb. 3, 1914. Republished Feb. 2. Class 9.

Hercules Powder Company, Wilmington, Del. Dry core binders. 308,736, Dec. 19, 1933. Republished Feb. 2. Class 5.

Higgins, Fred H., Casper, Wyo. Slide rule. 585,197, Feb. 2; Serial No. 622,936, published Nov. 3, 1953. Class 26.

Hines-Park Foods, Inc., Ithaca, N. Y. Grape juice. 585,272, Feb. 2; Serial No. 644,116, published Nov. 3, 1953. Class 45.

Hollins, William, & Company Limited: *See*—
Hollins, William, and Company, Limited.

Hollins, William, & Company, Limited: *See*—
Hollins, William, & Company, (Nottingham), Limited.

Hollins, William, & Company, Limited, Nottingham, England. Neckties. 81,274, Mar. 21, 1911. Republished Feb. 2. Class 39.

Hollins, William, and Company, Limited, Mansfield, Radford, Nottingham, Bridgeton, and London, England, and Glasgow, Scotland, to William Hollins & Company Limited. Women's garments. 74,515, July 20, 1909. New certificate. O. G. Feb. 2. Class 39.

Hollins, William, & Company, (Nottingham), Limited, to William Hollins & Company, Limited, Nottingham, England. Unshrinkable flannels etc. 27,847, Feb. 25, 1896. New certificate. O. G. Feb. 2. Class 42.

Hormel, Geo. A., & Company, Austin, Minn. Animal fat shortening. 443,005, July 5, 1949. Republished Feb. 2. Class 46.

Hortex Manufacturing Co., Inc., El Paso, Tex. Boys' outerwear. 585,359, Feb. 2; Serial No. 639,934. Class 39.

Hudnut, Richard, New York, N. Y. Perfumes, toilet water, sachet powder, etc. 307,276, renewed Oct. 24, 1953. O. G. Feb. 2. Class 51.

Huston, Tom, Peanut Company: *See*—
Schield, R. Pete.

Industrial Nucleonics Corporation, Columbus, Ohio. Industrial beta gauges. 585,217, Feb. 2; Serial No. 631,667, published Aug. 11, 1953. Class 26.

Infilco Incorporated, Tucson, Ariz. Precision chemical feeders for feeding measured quantities of liquid chemicals, etc. 585,258, Feb. 2; Serial No. 642,655, published Oct. 13, 1953. Class 26.

Instituut voor Marktverkenning: *See*—
Nederlands Instituut voor de Publieke Opinie.

International Paper Company, New York, N. Y. Paper bags. 585,330, Feb. 2; Serial No. 648,673, published Nov. 10, 1953. Class 2.

Interstate Folding Box Company, The, Middletown, Ohio. Collapsible paperboard bottle carriers. 585,241, Feb. 2; Serial No. 636,016, published Nov. 3, 1953. Class 2.

Irving, John, Shoe Corporation, Boston, Mass. Women's shoes. 520,258, Jan. 24, 1950. Corrected. O. G. Feb. 2. Class 39.

Irving, John, Shoe Corporation, Boston, Mass. Women's shoes. 534,909, Dec. 11, 1950. Corrected. O. G. Feb. 2. Class 39.

Irving, John, Shoe Corporation, Boston, Mass. Women's shoes. 549,330, Oct. 9, 1951. Corrected. O. G. Feb. 2. Class 39.

Irving, John, Shoe Corporation, Boston, Mass. Women's shoes. 567,162, Nov. 25, 1952. Corrected. O. G. Feb. 2. Class 39.

JLCO Laboratories: *See*—
Lachoff, Joseph.

Johnson, S. C., & Son, assignor to S. C. Johnson & Son, Inc., to S. C. Johnson & Son, Inc., Racine, Wis. Wax. 310,728, renewed Mar. 6, 1954. O. G. Feb. 2. Class 4.

Johnson, S. C., & Son, Inc.: *See*—
Johnson, S. C., & Son.

Johnson, S. C., & Son, Inc., Racine, Wis. Paint undercoats and priming coats. 311,434, renewed Mar. 20, 1954. O. G. Feb. 2. Class 16.

Junior Readers Guild, Inc., New York, N. Y. Magazines. 585,302, Feb. 2; Serial No. 646,672, published Nov. 3, 1953. Class 38.

Kahn and Feldman, Inc., New York, N. Y. Yarns. 585,293, Feb. 2; Serial No. 646,071, published Nov. 10, 1953. Class 43.

Karpen, Jack S., Inc., New York, N. Y. Chairs. 585,296, Feb. 2; Serial No. 646,291, published Nov. 3, 1953. Class 32.

Kaye, John, & Son (Huddersfield) Limited, Huddersfield, England. Piece goods and blankets, travel rugs, etc. 585,253, Feb. 2; Serial No. 639,649, published Nov. 10, 1953. Class 42.

Kaymet Company, The, London, England. Serving wagons and carts. 585,209, Feb. 2; Serial No. 629,207, published Nov. 3, 1953. Class 32.

Kerr, Alexander H., and Company, Incorporated, Los Angeles, Calif. Glass containers. 442,523, Apr. 26, 1949. Republished Feb. 2. Class 33.

Kester Solder Company, Chicago, Ill. Metal shapes of solder. 585,347, Feb. 2; Serial No. 624,650. Class 14.

Keystone Brass Works, Inc., Erie, Pa. Plastic dishes. 585,228, Feb. 2; Serial No. 634,257, published Nov. 3, 1953. Class 2.

Keystone Mushroom Co., Inc., Coatesville, Pa. Canned mushrooms. 309,319, renewed Jan. 9, 1954. O. G. Feb. 2. Class 46.

Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik, also doing business under the name "Koh-I-Noor United Metal Ware Factories, National Corporation," Prague, Czechoslovakia. Closures and fasteners, crochet hooks and crochet needles, etc. 585,189, Feb. 2; Serial No. 613,816, published Nov. 3, 1953. Class 40.

"Koh-I-Noor United Metal Ware Factories, National Corporation": *See*—
Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik

Kohler Co., Kohler, Wis. Closet seats and closet seat bumpers. 309,081, Jan. 2, 1934. Republished Feb. 2. Class 13.

Kress, S. H., and Company, New York, N. Y. Cotton piece goods. 585,319, Feb. 2; Serial No. 647,781, published Nov. 10, 1953. Class 42.

Kroehler Mfg. Co., Naperville, Ill. Upholstered sofas and upholstered chairs. 585,194, Feb. 2; Serial No. 616,797, published Nov. 3, 1953. Class 32.

Krug & Co.: *See*—
Krug, Jos.

Krug, Jos., doing business as Krug & Co., to P. J. Krug, Reims, France. Champagne wines. 309,963, renewed Feb. 6, 1954. O. G. Feb. 2. Class 47.

Krug, Jos., doing business as Krug & Co., to P. J. Krug, Reims, France. Champagne wines. 310,128, renewed Feb. 13, 1954. O. G. Feb. 2. Class 47.

Krug, Paul J.: *See*—
Krug, Jos.

Lachoff, Joseph, doing business as JLCO Laboratories, Chicago, Ill. Stainless steel and chrome wax polish. 585,352, Feb. 2; Serial No. 633,109. Class 4.

La France Industries, Inc., Wilmington, Del., and New York, N. Y. Textile fabrics. 585,307, Feb. 2; Serial No. 647,078, published Nov. 3, 1953. Class 42.

Laidlaw Co. Inc., The, New York, N. Y. Wool upholstery fabrics. 405,760, Feb. 22, 1944. Restricted. O. G. Feb. 2. Class 42.

Leeds Ltd. Coats, Inc., New York, N. Y. Woolen and worsted fabrics. 585,316, Feb. 2; Serial No. 647,700, published Nov. 3, 1953. Class 42.

Leethems (Twilfit) Limited, Portsmouth, England. Garment suspenders. 308,689, renewed Dec. 19, 1953. O. G. Feb. 2. Class 39.

Los Angeles Period Furniture Manufacturing Company, Los Angeles, Calif. Bedroom furniture. 585,297, Feb. 2; Serial No. 646,294, published Nov. 3, 1953. Class 32.

Lowenstein, M., & Sons, Inc., New York, N. Y. Cotton and/or rayon piece goods and/or combinations thereof. 585,244, Feb. 2; Serial No. 636,646, published Nov. 3, 1953. Class 42.

Lufkin Rule Company, The, Saginaw, Mich. Tape measures. 585,256, Feb. 2; Serial No. 642,232, published Nov. 10, 1953. Class 26.

Lunkenheimer Company, The, Cincinnati, Ohio. Stop, check, whistle type, air nozzle, and similar valves. 310,849, renewed Mar. 13, 1954. O. G. Feb. 2. Class 13.

Lux Clock Company, Inc., The: *See*—
De Luxe Clock & Mfg. Co., Inc., The.

M & R Dietetic Laboratories, Inc., Columbus, Ohio. Sweet milk. 308,818, Dec. 19, 1933. Republished Feb. 2. Class 46.

Macon Electronics, Division of York Radio & Television Corp., Decatur, Ill. Combined tape recording, disc recording, P. A. system, and phonograph machines. 585,354, Feb. 2; Serial No. 634,101. Class 21.

Magnaflux Corporation, Chicago, Ill. Electrical instruments for detecting flaws or irregularities in metallic or conductive objects, etc. 585,225, Feb. 2; Serial No. 633,371, published Sept. 22, 1953. Class 26.

Maidenform Brassiere Co., Inc., New York, N. Y. Brassières. 585,345, Feb. 2; Serial No. 623,728. Class 39.

Manhattan Kreole Prod. Inc., doing business as Sani-Seal Labs., New York and Brooklyn, N. Y. Liquid bubble solution used by children to blow bubbles. 585,334, Feb. 2; Serial No. 650,910, published Nov. 3, 1953. Class 22.

Manhattan Undergarment Co., Inv., New York, N. Y. Ladies' underwear. 585,273, Feb. 2; Serial No. 644,180, published Nov. 3, 1953. Class 39.

Marie-Designer, Inc., Hollywood, Calif. Chairs. 585,274, Feb. 2; Serial No. 644,428, published Nov. 3, 1953. Class 32.

Marotta & Cella, Brooklyn, N. Y. Olive oil. 307,006, renewed Oct. 10, 1953. O. G. Feb. 2. Class 46.

Martin, Effie L., executrix: *See*—
Martin, J. D.

Martin Fabrics Corporation, New York, N. Y., now by merger and change of name J. B. Martin Company. Velvet and pile fabrics. 585,326, Feb. 2; Serial No. 647,858, published Nov. 3, 1953. Class 42.

Martin Fabrics Corporation, New York, N. Y., now by merger and change of name J. B. Martin Company. Webbing. 585,327, Feb. 2; Serial No. 647,864, published Nov. 10, 1953. Class 42.

Martin, Fred D., doing business as Fred Martin Sales Company, assignor to Wear-A-Blanket, Inc., Cleveland, Ohio. Outer sleeping garment. 585,341, Feb. 2; Serial No. 608,119. Class 39.

Martin, Fred, Sales Company: *See*—
Martin, Fred D.

Martin, J. D., by E. L. Martin, Fresno, Calif., executrix of the estate of J. D. Martin, deceased. Fresh grapes. 214,776, July 6, 1926. Republished Feb. 2. Class 46.

Martin, J. D., by E. L. Martin, Fresno, Calif., executrix of the estate of J. D. Martin, deceased. Fresh vegetables, fresh citrous fruits, fresh grapes, etc. 221,599, Dec. 7, 1926. Republished Feb. 2. Class 46.

Martin, J. B., Company: *See*—
Martin Fabrics Corporation.

Melco Sales and Service Corp., Glendale, Calif. Hydraulically operated combined load-lowering and weighing attachment for hoists. 585,204, Feb. 2; Serial No. 626,211, published Oct. 13, 1953. Class 26.

Metalink Co., New York, N. Y., to J. Cutler, Newark, N. J. Etching fluids. 310,102, renewed Feb. 13, 1954. O. G. Feb. 2. Class 6.

Miller, Florence: *See*—
Miller, Florence O.

Miller, Florence O., doing business as Florence Miller, Dallas, Tex. Newspaper features. 585,199, Feb. 2; Serial No. 623,974, published Nov. 10, 1953. Class 38.

Millville Manufacturing Company, The, Philadelphia, Pa. Cotton piece goods. 311,358, renewed Mar. 20, 1954. O. G. Feb. 2. Class 42.

Millville Manufacturing Company, The, Philadelphia, Pa. Piece goods. 585,320, Feb. 2; Serial No. 647,793, published Nov. 10, 1953. Class 42.

Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Textile, woven, woolen rugs and carpets. 585,321, Feb. 2; Serial No. 647,794, published Nov. 10, 1953. Class 42.

Morgan & Wright, Detroit, Mich., to United States Rubber Company, New York, N. Y. Rubber vehicle-tires. 94,101, re-renewed Nov. 4, 1953. O. G. Feb. 2. Class 35.

Moore, E. R., Company, Chicago, Ill. Gymnasium suits, play suits, choir gowns, etc. 393,638, Feb. 24, 1942. Republished Feb. 2. Class 39.

Mosler Safe Company, The, Hamilton, Ohio. Locks. 585,331, Feb. 2; Serial No. 648,772, published Nov. 3, 1953. Class 25.

Mosse, Daniel T., Pittsburgh, Pa. Removal of unwanted hair from human bodies by electrolysis. 585,367, Feb. 2; Serial No. 596,041. Class 100.

Munsingwear, Inc., Minneapolis, Minn. Men's and boys' T-shirts. 585,348, Feb. 2; Serial No. 625,813. Class 39.

National Silk Company, Incorporated, The, South Coventry, Conn. Threads, yarns, and novelty yarns. 585,264, Feb. 2; Serial No. 643,178, published Nov. 10, 1953. Class 43.

Nederlands Instituut voor de Publieke Opinie, also trading under the style of Instituut voor Marktverkenning, Amsterdam, Netherlands. Books, booklets, leaflets, etc. 585,263, Feb. 2; Serial No. 643,113, published Nov. 3, 1953. Class 38.

Neumann, Morton G., by Valmor Products Co., Chicago, Ill. Hair dressing pomade, hair oil, brilliantine, etc. 374,678, Jan. 23, 1940. Republished Feb. 2. Class 51.

New Jersey Zinc Company, The, New York, N. Y. Slab zinc. 585,249, Feb. 2; Serial No. 638,776, published Nov. 10, 1953. Class 14.

New York Herald Tribune Inc., New York, N. Y. Cartoons or newspaper feature. 585,308–15, Feb. 2; Serial Nos. 647,085–92, published Nov. 10, 1953. Class 38.

Norcross, Inc., New York, N. Y. Greeting cards and printed greeting folders. 585,299, Feb. 2; Serial No. 640,569, published Nov. 3, 1953. Class 38.

Norden Laboratories, Lincoln, Nebr. House organ. 585,278, Feb. 2; Serial No. 644,779, published Nov. 3, 1953. Class 38.

North American Rayon Corporation: *See*—
American Glanzstoff Corporation.

Oakford Company, The: *See*—
Oakford and Fahnestock.

Oakford and Fahnestock, to The Oakford Company, Peoria, Ill. Canned fruits, berries, vegetables, etc. 93,246, re-renewed Aug. 26, 1953. O. G. Feb. 2. Class 46.

Ohrbach's, Incorporated, New York, N. Y., Newark, N. J., and Los Angeles, Calif. Ladies', misses', children's, and infants' clothing. 585,342, Feb. 2; Serial No. 611,912. Class 39.

Olney & Carpenter, Inc., Wolcott, N. Y. Frozen vegetables and frozen fruits. 308,916, renewed Dec. 26, 1953. O. G. Feb. 2. Class 46.

Patterson-Sargent Company, The: *See*—
Davies & Meacham.

Payne Trailer Company, Gardena, Calif. Trailers. 585,333, Feb. 2; Serial No. 649,178, published Nov. 10, 1953. Class 19.

Peerless Steel Equipment Company, Philadelphia, Pa. Steel office furniture. 585,262, Feb. 2; Serial No. 642,989, published Nov. 3, 1953. Class 32.

Pepper, Jas. E., & Company, Lexington, Ky., to Schenley Industries, Inc., New York, N. Y. Whiskey. 310,909, renewed Mar. 13, 1954. O. G. Feb. 2. Class 49.

Peters & Garabedian, Fresno, Calif. Fresh deciduous fruits, fresh grapes, and fresh melons. 435,917, Jan. 13, 1948. Republished Feb. 2. Class 46.

Phillips-Jones Corporation: *See*—
Richey Shirt Manufacturing Corporation.

Picture Craft Company: *See*—
Grossman, Ralph E.

Pillsbury Flour Mills Company, by Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 327,804, Sept. 3, 1935. Republished Feb. 2. Class 46.

Pillsbury Flour Mills Company, by Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 342,949, Feb. 2, 1937. Republished Feb. 2. Class 46.

Pillsbury Flour Mills Company, by Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 368,471, June 20, 1939. Republished Feb. 2. Class 46.

Pillsbury Flour Mills Company, by Pillsbury Mills, Inc., Minneapolis, Minn. Durum wheat flour. 373,855, Dec. 26, 1939. Republished Feb. 2. Class 46.

Pillsbury Flour Mills Company, by Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 378,808, June 18, 1940. Republished Feb. 2. Class 46.

Pillsbury Flour Mills Company, by Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 388,418, June 24, 1941. Republished Feb. 2. Class 46.

Pillsbury Mills, Inc.: *See*—
Pillsbury Flour Mills Company.

Podbielniak, Inc., Chicago, Ill. Indicators. 585,298, Feb. 2; Serial No. 646,311, published Nov. 10, 1953. Class 26.

Poloris Company, Inc., New York, N. Y., by Poloris Company, Inc., Jersey City, N. J. Poultices, and tablets for the relief of pain and colds. 310,006, Feb. 6, 1934. Republished Feb. 2. Class 18.

Pomona Products Co., Griffin, Ga. Canned pimento peppers. 189,856, Sept. 30, 1924. Republished Feb. 2. Class 46.

Pond's Extract Company, New York, N. Y. Paper handkerchiefs. 309,636, renewed Jan. 23, 1954. O. G. Feb. 2. Class 37.

Premier Plastics Co.: *See*—
Arliss, Charles.

Presto Lighters Limited, Montreal, Quebec, Canada. Pocket and table cigarette lighters. 585,211, Feb. 2; Serial No. 629,913, published Nov. 3, 1953. Class 8.

Procter & Gamble Company, The, Cincinnati, Ohio. Sulfo derivative of higher fatty alcohols having cleansing and detergent properties. 304,886, renewed July 18, 1953. O. G. Feb. 2. Class 52.

Procter & Gamble Company, The, Cincinnati, Ohio. Red oil. 304,996, renewed July 25, 1953. O. G. Feb. 2. Class 6.

Production Foundry Company: *See*—
Cameto, Leon.

Protectall Safe Corp., Syracuse, N. Y. Fire resistant safes. 585,267, Feb. 2; Serial No. 643,369, published Nov. 3, 1953. Class 25.

Protex Products Company, Inc., New York, N. Y. Dress bags, suit bags, comforter bags, etc. 585,301, Feb. 2; Serial No. 646,627, published Nov. 10, 1953. Class 2.

Quaker Oil Products Corporation, Conshohocken, Pa. Lubricating greases. 260,144, Aug. 20, 1929. Disclaimed. O. G. Feb. 2. Class 15.

R. O. W. Sales Company, Ferndale, Mich. Metallic sash guide strips, metallic sealing strips, for windows and window frames. 561,787, July 22, 1952. Corrected. O. G. Feb. 2. Class 12.

Richey Shirt Manufacturing Corporation, to Phillips-Jones Corporation, New York, N. Y. Men's and boys' dress and negligee shirts. 307,544, renewed Oct. 31, 1953. O. G. Feb. 2. Class 39.

Richfield Oil Corporation of New York, New York, N. Y. Petroleum products. 307,221, renewed Oct. 17, 1953. O. G. Feb. 2. Class 15.

Ritzenthaler, John, New York, N. Y. Ironing board covers. 585,275, Feb. 2; Serial No. 644,519, published Nov. 10, 1953. Class 24.

Rockline Mfg. Co., Inc., Brooklyn, N. Y. Snack tables, hanging shelves, and serving carts. 585,245, Feb. 2; Serial No. 636,943, published Nov. 3, 1953. Class 32.

Rohr Aircraft Corporation, Chula Vista, Calif. Electrical instrument for indicating the surface cleanness of sheet metal. 585,226, Feb. 2; Serial No. 633,946, published Oct. 27, 1953. Class 26.

Saks & Company, New York, N. Y. Children's dresses, hats, coats, etc. 585,362, Feb. 2; Serial No. 645,675. Class 39.

Sani-Seal Labs.: *See*—
Manhattan Kreole Prod. Inc.

Sarra, Inc., New York, N. Y. Motion picture film. 585,351, Feb. 2; Serial No. 632,393. Class 26.

Schenley Industries, Inc.: *See*—
Elco Products Corporation.
Finch, Jos. S., & Company.
Pepper, Jas. E., Company.

Scherr, George, Co., New York, N. Y. Calipers and micrometers. 585,223, Feb. 2; Serial No. 632,629, published Aug. 4, 1953. Class 26.

Schield, R. Pete, doing business as Schield Specialty Co., Nashville, Tenn., to Tom Huston Peanut Company, Columbus, Ga. Peanut butter sandwiches. 308,947, renewed Dec. 26, 1953. O. G. Feb. 2. Class 46.

Schield Specialty Co.: *See*—
Schield, R. Pete.

Schoeneman, J., Inc., Baltimore, Md. Coats, vests, trousers, etc. 307,861, renewed Nov. 7, 1953. O. G. Feb. 2. Class 39.

Schumacher, H. H., doing business as B-Z-B Honey Company, Alhambra, Calif. Periodical column or feature. 585,284, Feb. 2; Serial No. 645,076, published Nov. 3, 1953. Class 38.

Seamprufe Incorporated, New York, N. Y. Women's apparel. 585,322–3, Feb. 2; Serial Nos. 647,814–15, published Nov. 10, 1953. Class 39.

Shasta Water Company, The, San Francisco, Calif. Carbonated water. 585,208, Feb. 2; Serial No. 629,127, published May 26, 1953. Class 45.

Shelburne Sportswear, Philadelphia, Pa. Men's, women's and children's knitted coats, skirts, blouses, etc. 585,344, Feb. 2; Serial No. 623,014. Class 39.

Sheldon Electric Co., Inc., Irvington, N. J. Cathode ray tubes. 585,340, Feb. 2; Serial No. 579,138. Class 21.

Silex Company, The, Hartford, Conn. Electric ranges and portable electric table stoves. 308,023, renewed Nov. 14, 1953. O. G. Feb. 2. Class 21.

Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa., assignor to Congoleum-Nairn, Inc., Kearny, N. J. Hard surface linoleum floor covering. 585,291, Feb. 2; Serial No. 645,761, published Nov. 3, 1953. Class 20.

Smith, F. Marshall, Reading, Pa. Fertilizer. 585,232, Feb. 2; Serial No. 634,867, published Nov. 3, 1953. Class 10.

Snug-Fit Foundations Company, New York, N. Y. Brassières, foundations, and girdles. 585,358, Feb. 2; Serial No. 639,669. Class 39.

Societe d'Optique & de Mecanique de Haute Precision, Paris, France. Photographic lenses and view finders. 585,212, Feb. 2; Serial No. 629,965, published Sept. 22, 1953. Class 26.

Sondra Undergarments Co. Inc., New York, N. Y. Ladies' and girls' undergarments and intimate wear. 585,206, Feb. 2; Serial No. 627,708, published Nov. 10, 1953. Class 39.

Sovereign Film Co., New York, N. Y. Photographic film and paper. 585,255, Feb. 2; Serial No. 641,986, published Aug. 11, 1953. Class 26.

Standard Envelope Mfg. Co., The, Cleveland, Ohio. Merchandise envelopes, bags, and cartons. 585,254, Feb. 2; Serial No. 641,097, published Nov. 3, 1953. Class 2.

Standard Steel Spring Company, Coraopolis, Pa. Protectively surfaced ferrous or non-ferrous metals. 371,976, Oct. 17, 1939. Republished Feb. 2. Class 14.

Stearns, Frederick, & Co., Detroit, Mich., to Winthrop-Stearns Inc., New York, N. Y. Hemostatic, astringent, and cardiac stimulants. 41,980, re-renewed Feb. 2, 1954. O. G. Feb. 2. Class 18.

Stefan, Helen: *See*—
Stefan, Helen F.

Stefan, Helen F., doing business as Helen Stefan, St. Paul, Minn. Hoods for the head for protecting coiffures, face make-up, etc. 585,210, Feb. 2; Serial No. 629,866, published Nov. 10, 1953. Class 40.

Stern Brothers, New York, N. Y. Paper bags, baskets, bird baths, etc. 585,251, Feb. 2; Serial No. 639,492, published Nov. 10, 1953. Class 2.

Stern Brothers, New York, N. Y. Paper bags, baskets, bird baths, etc. 585,252, Feb. 2; Serial No. 639,509, published Nov. 10, 1953. Class 2.

Strouse, Adler Company, The, New Haven, Conn. Foundation garments. 585,276, Feb. 2; Serial No. 644,576, published Nov. 3, 1953. Class 39.

Sunshine Brewing Co.: *See*—
Barbey, John.

Tigges, Eberhard, doing business as Tigges Lighter Mfg. Co., San Francisco, Calif. Cigarette lighters. 585,303, Feb. 2; Serial No. 646,696, published Nov. 3, 1953. Class 8.

Tigges Lighter Mfg. Co.: *See*—
Tigges, Eberhard.

Tracerlab, Inc., Boston, Mass. Radioactivity measuring instrument. 440,111, Aug. 10, 1948. Republished Feb. 2. Class 26.

Transparent Package Company, Chicago, Ill. Plastic tubes. 585,202, Feb. 2; Serial No. 625,833, published Nov. 3, 1953. Class 2.

Turner, Harold R., Ipswich, Mass. Sail boats. 585,218, Feb. 2; Serial No. 631,766, published Nov. 3, 1953. Class 19.

Union Carbide and Carbon Corporation, New York, N. Y. Metal alloy welding rods. 585,328, Feb. 2; Serial No. 648,212, published Nov. 3, 1953. Class 14.

United Elastic Corporation, Easthampton, Mass. Narrow elastic webbing. 585,224, Feb. 2; Serial No. 633,279, published Nov. 10, 1953. Class 42.

United States Rubber Company: *See*—
Morgan & Wright.

Utah-Idaho Sugar Company, Salt Lake City, Utah. Sugar. 226,319, Apr. 5, 1927. Republished Feb. 2. Class 46.

Valliere Drapery & Slipcover Studio, Rochester, N. Y. Slipcover material and upholstering material, and for upholstered furniture. 585,198, Feb. 2; Serial No. 623,927, published Nov. 10, 1953. Class 32.

Valmor Products Co.: *See*—
Neumann, Morton G.

Veltel Hosiery Company, Le Roy, N. Y. Hosiery. 585,356, Feb. 2; Serial No. 635,159. Class 39.

Vilter Manufacturing Co., The, Milwaukee, Wis. Casting metals and metal castings. 585,248, Feb. 2; Serial No. 638,339, published Nov. 3, 1953. Class 14.

Virginia Welding Supply Company, Charleston, W. Va. Welding equipment. 585,304, Feb. 2; Serial No. 646,702, published Nov. 10, 1953. Class 26.

Wales Game Systems, Inc., Buffalo, N. Y. Board games. 585,240, Feb. 2; Serial No. 635,986, published Nov. 3, 1953. Class 22.

Walker, Hiram, & Sons Inc.: *See*—
Walker, Hiram, & Sons, Limited.

Walker, Hiram, & Sons Inc., Detroit, Mich. Whiskey. 327,784, Sept. 3, 1935. Republished Feb. 2. Class 49.

Walker, Hiram, & Sons Inc., Detroit, Mich. Whiskey. 327,788, Sept. 3, 1935. Republished Feb. 2. Class 49.

Walker, Hiram, & Sons Inc., Detroit, Mich. Whiskey. 337,436, Aug. 4, 1936. Republished Feb. 2. Class 49.

Walker, Hiram, & Sons Inc., Detroit, Mich. Gin. 350,966, Oct. 12, 1937. Republished Feb. 2. Class 49.

Walker, Hiram, & Sons Inc., Detroit, Mich. Gin. 359,733, Aug. 30, 1938. Republished Feb. 2. Class 49.

Walker, Hiram, & Sons, Limited, Walkerville, Ontario, Canada, by Hiram Walker & Sons Inc., Peoria, Ill. Gin. 304,242, June 27, 1933. Republished Feb. 2. Class 49.

Walker, Hiram, & Sons, Limited, Walkerville, Ontario, Canada, by Hiram Walker & Sons Inc., Detroit, Mich. Whisky. 304,243–4, June 27, 1933. Republished Feb. 2. Class 49.

Washington Steel Products, Inc., Tacoma, Wash. Vegetable storage bins, fruit storage bins, fruit and vegetable storage bins, etc. 585,190, Feb. 2; Serial No. 614,593, published Nov. 10, 1953. Class 2.

Wattles, Frank E., Buffalo, N. Y. Eggs. 306,909, renewed Oct. 3, 1953. O. G. Feb. 2. Class 46.

Wear-A-Blanket, Inc., assignee: *See*—
Martin, Fred D.

Weartex Rug Company, Oakland, Calif. Braided and woven cotton and wool rugs. 585,295, Feb. 2; Serial No. 646,246, published Nov. 3, 1953. Class 42.

Weiser, Aaron, doing business as Aaron Coffee Company, Philadelphia, Pa. Coffee and tea. 304,532, renewed July 11, 1953. O. G. Feb. 2. Class 46.

Western Chemical Company of Kansas City, Missouri, Kansas City, Mo. Chemical. 345,637, May 4, 1937. Corrected. O. G. Feb. 2. Class 6.

Wheel-A-Matic Company of America, Inc., The, Franklin, N. H. Machines for testing caster, camber, toe-in and degree of turning radius of automotive vehicle front wheels. 585,219, Feb. 2; Serial No. 631,834, published Oct. 13, 1953. Class 26.

Whitman, Stephen F., & Sons, Inc., Philadelphia, Pa. Candy confections. 95,969, re-renewed Mar. 24, 1954. O. G. Feb. 2. Class 46.

Whyte & Mackay Limited, Glasgow, Scotland. Whisky. 307,378, renewed Oct. 24, 1953. O. G. Feb. 2. Class 49.

Winer Manufacturing Co., Inc., assignee: *See*—
Winer Manufacturing Company.

Winer Manufacturing Company, assignor to Winer Manufacturing Co., Inc., by Winer Manufacturing Co., Inc., Hammond, Ind. Men's, boys', juniors', women's, and girls' sport jackets. 430,602, June 17, 1947. Republished Feb. 2. Class 39.

Winthrop-Stearns Inc.: *See*—
Stearns, Frederick & Co.

World Merchandise Exchange & Trading Co., Inc., New York, N. Y. Pyrophoric cigar and cigarette lighters. 585,294, Feb. 2; Serial No. 646,191, published Nov. 3, 1953. Class 8.

York Oil Burner Co., Inc., by York-Shipley, Inc., York, Pa. Fuel burning air conditioning units. 396,036, June 23, 1942. Republished Feb. 2. Class 34.

York Oil Burner Co., Inc., by York-Shipley, Inc., York, Pa. Fuel burners, boilers, air conditioning units, etc. 399,838, Feb. 2, 1943. Republished Feb. 2. Class 34.

York-Shipley, Inc.: *See*—
York Oil Burner Co., Inc.

Zeller-Churgin, Harry, Corp., New York, N. Y. Fabrics. 585,243, Feb. 2; Serial No. 636,398, published Nov. 10, 1953. Class 42.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Seeds, Flower and vegetable. Germain Seed & Plant Company. 306,355, Sept. 19, 1933. Republished Feb. 2.

CLASS 2

Assembly of food storage bins. Emco Porcelain Enamel Co., Inc. 585,268, Feb. 2; Serial No. 643,670, published Nov. 10, 1953.

Bags, Dress, suit bags, comforter bags, etc. Protex Products Company, Inc. 585,301, Feb. 2; Serial No. 646,627, published Nov. 10, 1953.

Bags, Paper. International Paper Company. 585,330, Feb. 2; Serial No. 648,673, published Nov. 10, 1953.

Bags, Paper, baskets, bird baths, etc. Stern Brothers. 585,251, Feb. 2; Serial No. 639,492, published Nov. 10, 1953.

Bags, Paper, baskets, bird baths, etc. Stern Brothers. 585,252, Feb. 2; Serial No. 639,509, published Nov. 10, 1953.

Bags, Textile. Bag Service, Inc. 585,233, Feb. 2; Serial No. 635,021, published Oct. 13, 1953.

Bins, Vegetable storage, fruit storage bins, fruit and vegetable storage bins, etc. Washington Steel Products, Inc. 585,190, Feb. 2; Serial No. 614,593, published Nov. 10, 1953.

Bottle carriers, Collapsible paperboard. The Interstate Folding Box Company. 585,241, Feb. 2; Serial No. 636,016, published Nov. 3, 1953.

Bottles, Plastic. Flexcel Container Company. 585,207, Feb. 2; Serial No. 628,755, published Nov. 3, 1953.

Box, One-piece paperboard garment. Cornell Paperboard Products Co. 585,290, Feb. 2; Serial No. 645,698, published Nov. 3, 1953.

Boxes and cartons, Paper board. Container Corporation of America. 585,247, Feb. 2; Serial No. 637,536, published Nov. 10, 1953.

Cases, Fabric lined. Eureka Manufacturing Company, Inc. 585,271, Feb. 2; Serial No. 644,105, published Nov. 10, 1953.

Casket and vault, Military. J. R. Goggins. 585,250, Feb. 2; Serial No. 639,098, published Sept. 15, 1953.

Dishes, Plastic. Keystone Brass Works, Inc. 585,228, Feb. 2; Serial No. 634,257, published Nov. 3, 1953.

Hampers, Plastic clothes. Gladwin Plastics Co. 585,306, Feb. 2; Serial No. 646,940, published Oct. 27, 1953.

Merchandise envelopes, bags, and cartons. The Standard Envelope Mfg. Co. 585,254, Feb. 2; Serial No. 641,097, published Nov. 3, 1953.

Silos, storage pockets, storage tanks, etc. Craine, Inc. 309,306, renewed Jan. 9, 1954. O. G. Feb. 2.

Silos, storage pockets, storage tanks, etc. Craine, Inc. 309,506, renewed Jan. 16, 1954. O. G. Feb. 2.

Tanks, Storage, farm silos, industrial silos, etc. Craine, Inc. 309,305, renewed Jan. 9, 1954. O. G. Feb. 2.

Tubes, Plastic. Transparent Package Company. 585,202, Feb. 2; Serial No. 625,833, published Nov. 3, 1953.

CLASS 4

Polish, Stainless steel and chrome wax. J. Lachoff. 585,352, Feb. 2; Serial No. 633,109.

Wax. S. C. Johnson & Son. 310,728, renewed Mar. 6, 1954. O. G. Feb. 2.

CLASS 5

Dry core binders. Hercules Powder Company. 308,736, Dec. 19, 1933. Republished Feb. 2.

CLASS 6

Chemical. Western Chemical Company of Kansas City. 345,637, May 4, 1937. Corrected. O. G. Feb. 2.

Etching fluids. Metalink Co. 310,102, renewed Feb. 13, 1954. O. G. Feb. 2.

Red oil. The Procter & Gamble Company. 304,996, renewed July 25, 1953. O. G. Feb. 2.

CLASS 8

Clips to be attached to golf bags for holding cigars, cigarettes, etc. R. G. Dyer. 585,260, Feb. 2; Serial No. 642,746, published Nov. 3, 1953.

Lighters, Cigarette. E. Tigges. 585,303, Feb. 2; Serial No. 646,696, published Nov. 3, 1953.

Lighters, Electrically operated cigarette. Galvanic Products Corporation. 585,222, Feb. 2; Serial No. 632,561, published Nov. 3, 1953.

Lighters, Pocket and table cigarette. Presto Lighters Limited. 585,211, Feb. 2; Serial No. 629,913, published Nov. 3, 1953.

Pyrophoric cigar and cigarette lighters. World Merchandise Exchange & Trading Co., Inc. 585,294, Feb. 2; Serial No. 646,191, published Nov. 3, 1953.

CLASS 9

Dynamite. Hercules Powder Company. 95,099, Feb. 3, 1914. Republished Feb. 2.

CLASS 10

Fertilizer. F. M. Smith. 585,232, Feb. 2; Serial No. 634,867, published Nov. 3, 1953.

CLASS 12

Metallic sask guide strips, metallic sealing strips, for windows and window frames. R. O. W. Sales Company. 561,787, July 22, 1952. Corrected. O. G. Feb. 2.

CLASS 13

Closet seats and closet seat bumpers. Kohler Co. 309,081, Jan. 2, 1934. Republished Feb. 2.

Valves, Stop, check, whistle type, air nozzle, and similar. The Lunkenheimer Company. 310,849, renewed Mar. 13, 1954. O. G. Feb. 2.

CLASS 14

Ferrous alloys. The Durion Company, Inc. 307,715, renewed Oct. 31, 1953. O. G. Feb. 2.

Metal alloy welding rods. Union Carbide and Carbon Corporation. 585,328, Feb. 2; Serial No. 648,212, published Nov. 3, 1953.

Metal shapes of solder. Kester Solder Company. 585,347, Feb. 2; Serial No. 624,650.

Metallic products. Acme Aluminum Alloys, Inc. 585,191, Feb. 2; Serial No. 614,679, published Nov. 3, 1953.

Metals, Casting, and metal castings. The Vilter Manufacturing Co. 585,248, Feb. 2; Serial No. 638,339, published Nov. 3, 1953.

Metals, Protectively surfaced ferrous or non-ferrous. Standard Steel Spring Company. 371,976, Oct. 17, 1939. Republished Feb. 2.

Pieces or lengths of flat ferrous metal. American Saw and Manufacturing Company. 585,193, Feb. 2; Serial No. 616,789, published Apr. 28, 1953.

Printing type. Bauer Alphabets Inc. 585,269, Feb. 2; Serial No. 643,753, published Nov. 3, 1953.

Steel. The Carpenter Steel Company. 585,277, Feb. 2; Serial No. 644,664, published Nov. 10, 1953.

Welding rods, Bare and coated. American Brake Shoe Company. 585,221, Feb. 2; Serial No. 632,498, published Nov. 3, 1953.

Zinc, Slab. The New Jersey Zinc Company. 585,249, Feb. 2; Serial No. 638,776, published Nov. 10, 1953.

CLASS 15

Greases, Lubricating. Quaker Oil Products Corporation. 260,144, Aug. 20, 1929. Disclaimed. O. G. Feb. 2.

Oil, Lubricating. Chesebrough Manufacturing Company. 93,425, Sept. 16, 1913. Republished Feb. 2.

Petroleum products. Richfield Oil Corporation of New York. 307,221, renewed Oct. 17, 1953. O. G. Feb. 2.

CLASS 16

Paint undercoats and priming coats. S. C. Johnson & Son, Inc. 311,434, renewed Mar. 20, 1954. O. G. Feb. 2.

Paints, Dry and ready-mixed, wall-paints, lacs, etc. Davies & Meacham. 93,699–702, re-renewed Oct. 14, 1953. O. G. Feb. 2.

CLASS 17

Cigars, cheroots, and all-tobacco cigarettes. The American Tobacco Company. 311,760, renewed Apr. 3, 1954. O. G. Feb. 2.

Cigars, cigarettes, smoking tobacco, etc. Brown & Williamson Tobacco Corporation. 585,261, Feb. 2; Serial No. 642,799, published Nov. 3, 1953.

CLASS 18

Hemostatic, astringent, and cardiac stimulants. Frederick Stearns & Co. 41,980, re-renewed Feb. 2, 1954. O. G. Feb. 2.

Liquid medication. The Fredenburgh-Hecht Company. 585,343, Feb. 2; Serial No. 619,935.

Poultices, and tablets for the relief of pain and colds. Poloris Company, Inc. 310,006, Feb. 6, 1934. Republished Feb. 2.

Vaginal antiseptic. The Alphaden Company, Inc. 399,423, Jan. 5, 1943. Republished Feb. 2.

CLASS 19

Boats, Sail. H. R. Turner. 585,218, Feb. 2; Serial No. 631,766, published Nov. 3, 1953.

Trailers. Payne Trailer Company. 585,333, Feb. 2; Serial No. 649,178, published Nov. 10, 1953.

Wheelbarrows and lawn carts. Green Thumb Products. 585,239, Feb. 2; Serial No. 635,965, published Nov. 3, 1953.

CLASS 20

Linoleum floor covering, Hard surface. Sloane-Blabon Corporation. 585,291, Feb. 2; Serial No. 645,761, published Nov. 3, 1953.

Wall covering, Flexible plastic. Armstrong Cork Company. 585,231, Feb. 2; Serial No. 634,436, published Nov. 3, 1953.

CLASS 21

Batteries and parts therefor, Storage. Hartford Battery Corporation. 585,364, Feb. 2; Serial No. 650,305.

Electric ranges and portable electric table stoves. The Silex Company. 308,023, renewed Nov. 14, 1953. O. G. Feb. 2.

Tape recording, disc recording, P. A. system, and phonograph machines, Combined. Macon Electronics, Division of York Radio & Television Corp. 585,354, Feb. 2; Serial No. 634,101.

Tubes, Cathode ray. Sheldon Electric Co., Inc. 585,340, Feb. 2; Serial No. 579,138.

CLASS 22

Bait box, Insulated. G & G Company. 585,246, Feb. 2; Serial No. 637,308, published Nov. 3, 1953.

Doll. C. Arliss. 585,335, Feb. 2; Serial No. 651,381, published Nov. 10, 1953.

Dolls. Adanta Novelties Corp. 585,336, Feb. 2; Serial No. 651,490, published Nov. 3, 1953.

Fish lures, Artificial. C. I. Burke. 585,220, Feb. 2; Serial No. 632,464, published Nov. 3, 1953.

Fishing reels. The Enterprise Manufacturing Company. 585,338–9, Feb. 2; Serial Nos. 651,696–7, published Nov. 10, 1953.

Game, Educational card. Educational Cards, Inc. 585,235, Feb. 2; Serial No. 635,589, published Nov. 3, 1953.

Games, Board. Wales Game Systems, Inc. 585,240, Feb. 2; Serial No. 635,986, published Nov. 3, 1953.

Liquid bubble solution used by children to blow bubbles. Manhattan Kreole Prod. Inc. 585,334, Feb. 2; Serial No. 650,910, published Nov. 3, 1953.

Mirror for use in practicing golf swing. R. H. David. 585,187, Feb. 2; Serial No. 606,599, published Nov. 3, 1953.

Model airplanes kits and parts thereof. Comet Model Hobbycraft, Inc. 585,188, Feb. 2; Serial No. 606,852, published Nov. 10, 1953.

Skates, Roller. Chicago Roller Skate Company. 585,216, Feb. 2; Serial No. 631,048, published Nov. 10, 1953.

Spinning reel. Charles Garcia & Co., Inc. 585,337, Feb. 2; Serial No. 651,653, published Nov. 10, 1953.

Toy painting kits. R. E. Grossman. 585,227, Feb. 2; Serial No. 633,978, published Nov. 10, 1953.

CLASS 23

Saws. Henry Disston & Sons, Incorporated. 95,076–7, re-renewed Feb. 3, 1954. O. G. Feb. 2.

CLASS 24

Ironing board covers. J. Ritzenthaler. 585,275, Feb. 2; Serial No. 644,519, published Nov. 10, 1953.

Machines for drying textiles and similar fabrics and parts thereof. Borg-Warner Corporation. 585,318, Feb. 2; Serial No. 647,755, published Nov. 10, 1953.

Trousers creasers. Eberhardt Manufacturing Co. 585,332, Feb. 2; Serial No. 649,136, published Nov. 10, 1953.

CLASS 25

Locks. The Mosler Safe Company. 585,331, Feb. 2; Serial No. 648,772, published Nov. 3, 1953.

Safes, Fire resistant. Protectall Safe Corp. 585,267, Feb. 2; Serial No. 643,369, published Nov. 3, 1953.

CLASS 26

Aircraft marker beacon receiver. Flite-Tronics, Inc. 585,238, Feb. 2; Serial No. 635,911, published Oct. 27, 1953.

Binoculars. Fuji Photo Optical Co., Ltd. 585,205, Feb. 2; Serial No. 626,506, published Aug. 4, 1953.

Calipers and micrometers. George Scherr Co. 585,223, Feb. 2; Serial No. 632,629, published Aug. 4, 1953.

Cameras, Photographic. The Folmer Graflex Corporation. 416,432, Sept. 11, 1945. Republished Feb. 2.

Electrical instrument for indicating the surface cleanness of sheet metal. Rohr Aircraft Corporation. 585,226, Feb. 2; Serial No. 633,946, published Oct. 27, 1953.

Electrical instruments for detecting flaws or irregularities in metallic or conductive objects, etc. Magnaflux Corporation. 585,225, Feb. 2; Serial No. 633,371, published Sept. 22, 1953.

Gauges, Dimension. A. Capp & Son Limited. 585,281, Feb. 2; Serial No. 644,896, published Sept. 22, 1953.

Gauges, Industrial beta. Industrial Nucleonics Corporation. 585,217, Feb. 2; Serial No. 631,667, published Aug. 11, 1953.

Glasses, Sun. Bachmann Bros., Inc. 585,282–3, Feb. 2; Serial Nos. 644,954–5, published Sept. 22, 1953.

Hydraulically operated combined load-lowering and weighing attachment for hoists. Mefco Sales and Service Corp. 585,204, Feb. 2; Serial No. 626,211, published Oct. 13, 1953.

Indicators. Podbielniak, Inc. 585,298, Feb. 2; Serial No. 646,311, published Nov. 10, 1953.

Instruments for indicating, recording or controlling viscosity. Brookfield Engineering Laboratories, Inc. 585,192, Feb. 2; Serial No. 615,267, published Aug. 11, 1953.

Laboratory testing apparatus. American Association of Textile Chemists and Colorists. 585,237, Feb. 2; Serial No. 635,803, published Oct. 13, 1953.

Lenses and frames. A. B. Belgard. 585,195, Feb. 2; Serial No. 620,084, published Aug. 4, 1953.

Lenses, Objective. Bausch & Lomb Optical Company. 585,201, Feb. 2; Serial No. 625,784, published Aug. 4, 1953.

Lenses, Photographic, and view finders. Societe d'Optique & de Mecanique de Haute Precision. 585,212, Feb. 2; Serial No. 629,965, published Sept. 22, 1953.

Lenses, Safety goggle, and safety glass lenses. Case Safety Products, Inc. 585,213, Feb. 2; Serial No. 630,664, published Aug. 4, 1953.

Lenses, spectacles and sun glasses. Delta Optical Co., Inc. 585,203, Feb. 2; Serial No. 625,974, published Aug. 4, 1953.

Machines for testing caster, camber, toe-in and degree of turning radius of automotive vehicle front wheels. The Wheel-A-Matic Company of America, Inc. 585,219, Feb. 2; Serial No. 631,834, published Oct. 13, 1953.

Moisture indicators. Bruin Industries. 585,285, Feb. 2; Serial No. 645,101, published Nov. 3, 1953.

Motion picture film. Sarra, Inc. 585,351, Feb. 2; Serial No. 632,393.

Optical mirrors, light filters, interference filters, etc. Gerastebau-Anstalt. 585,200, Feb. 2; Serial No. 624,740, published Aug. 4, 1953.

Photographic apparatus. The Folmer Graflex Corporation. 398,442–3, Oct. 27, 1942. Republished Feb. 2.

Photographic film and paper. Sovereign Film Co. 585,255, Feb. 2; Serial No. 641,986, published Aug. 11, 1953.

Photographic lenses. Graflex, Inc. 419,173, Feb. 5, 1946. Republished Feb. 2.

Precision chemical feeders for feeding measured quantities of liquid chemicals, etc. Infilco Incorporated. 585,258, Feb. 2; Serial No. 642,655, published Oct. 13, 1953.

Radioactivity measuring instrument. Tracerlab, Inc. 440,111, Aug. 10, 1948. Republished Feb. 2.

Rule, Slide. F. H. Higgins. 585,197, Feb. 2; Serial No. 622,936, published Nov. 3, 1953.

Rules, Slide. A. B. Ellison. 585,215, Feb. 2; Serial No. 630,998, published Aug. 4, 1953.

Spectacle cases. Bausch & Lomb Optical Company. 585,214, Feb. 2; Serial No. 630,751, published Aug. 4, 1953.

Stadimeters. J. W. Gillon. 585,257, Feb. 2; Serial No. 642,543, published Oct. 13, 1953.

Tape measures. The Lufkin Rule Company. 585,256, Feb. 2; Serial No. 642,232, published Nov. 10, 1953.
Welding equipment. Virginia Welding Supply Company. 585,304, Feb. 2; Serial No. 646,702, published Nov. 10, 1953.

CLASS 27

Clock cases. The De Luxe Clock & Mfg. Co., Inc. 247,269, Sept. 25, 1928. Republished Feb. 2.

CLASS 32

Chairs. Jack S. Karpen, Inc. 585,296, Feb. 2; Serial No. 646,291, published Nov. 3, 1953.
Chairs. Marie-Designer, Inc. 585,274, Feb. 2; Serial No. 644,428, published Nov. 3, 1953.
Chairs, Kitchen and dinette. Douglas Furniture Corporation. 585,259, Feb. 2; Serial No. 642,738, published Nov. 3, 1953.
Drawer cabinets, Metal. Aurora Equipment Company. 585,288, Feb. 2; Serial No. 645,615, published Nov. 3, 1953.
Furniture, Bedroom. American Manufacturing Concern. 585,265–6, Feb. 2; Serial Nos. 643,263–4, published Nov. 3, 1953.
Furniture, Bedroom. Los Angeles Period Furniture Manufacturing Company. 585,297, Feb. 2; Serial No. 646,294, published Nov. 3, 1953.
Furniture, Steel office. Peerless Steel Equipment Company. 585,262, Feb. 2; Serial No. 642,989, published Nov. 3, 1953.
Racks for storage of typed magazines. A. P. Bonekemper. 585,286, Feb. 2; Serial No. 645,284, published Nov. 10, 1953.
Serving wagons and carts. The Kaymet Company. 585,209, Feb. 2; Serial No. 629,207, published Nov. 3, 1953.
Slipcover material and upholstering material, and for upholstered furniture. Valliere Drapery & Slipcover Studio. 585,198, Feb. 2; Serial No. 623,927, published Nov. 10, 1953.
Sofas, Upholstered, and upholstered chairs. Kroehler Mfg. Co. 585,194, Feb. 2; Serial No. 616,797, published Nov. 3, 1953.
Tables, Snack, hanging shelves, and serving carts. Rockline Mfg. Co., Inc. 585,245, Feb. 2; Serial No. 636,943, published Nov. 3, 1953.

CLASS 33

Glass containers. Alexander H. Kerr and Company, Incorporated. 442,533, Apr. 26, 1949. Republished Feb. 2.

CLASS 34

Burners, Fuel, boilers, air conditioning units, etc. York Oil Burner Co., Inc. 399,838, Feb. 2, 1943. Republished Feb. 2.
Fuel burning air conditioning units. York Oil Burner Co., Inc. 396,036, June 23, 1942. Republished Feb. 2.

CLASS 35

Vehicle-tires, Rubber. Morgan & Wright. 94,101, re-renewed Nov. 4, 1953. O. G. Feb. 2.

CLASS 37

Paper handkerchiefs. Pond's Extract Company. 309,636, renewed Jan. 23, 1954. O. G. Feb. 2.
Paper, High wet strength wrapping. Gulf States Paper Corporation. 585,365–6, Feb. 2; Serial Nos. 650,801–2.

CLASS 38

Books, booklets, leaflets, etc. Nederlands Instituut voor de Publieke Opinie. 585,263, Feb. 2; Serial No. 643,113, published Nov. 3, 1953.
Books, Bound. Aktiebolaget Multi-Div[illegible] Feb. 2; Serial No. 635,802, published Nov. 3, 19[illegible]
Cartoons or newspaper feature. New York Herald Tribune Inc. 585,308–15, Feb. 2; Serial Nos. 647,085–92, published Nov. 10, 1953.
Greeting cards and printed greeting folders. Norcross, Inc. 585,299, Feb. 2; Serial No. 646,569, published Nov. 3, 1953.
House organ. Norden Laboratories. 585,278, Feb. 2; Serial No. 644,779, published Nov. 3, 1953.
House organ, Insurance company. Farm Bureau Mutual Automobile Insurance Company. 585,186, Feb. 2; Serial No. 598,580, published Nov. 3, 1953.
Magazine. Bronze Ego Publishers, Inc. 585,280, Feb. 2; Serial No. 644,827, published Nov. 3, 1953.
Magazine. Commerce Clearing House, Inc. 378,006, May 21, 1940. Republished Feb. 2.
Magazines. Junior Readers Guild, Inc. 585,302, Feb. 2; Serial No 646,672, published Nov. 3, 1953.
News bulletin, Printed. Commerce Clearing House, Inc. 362,811, Nov. 29, 1938. Republished Feb. 2.
Newspaper features. F. O. Miller. 585,199, Feb. 2; Serial No. 623,974, published Nov. 10, 1953.
Periodical. Chicagoland Publications, Inc. 585,363, Feb. 2; Serial No. 646,523.
Periodical column or feature. H. H. Schumacher. 585,284, Feb. 2; Serial No. 645,076, published Nov. 3, 1953.
Publication, Biennial. The American Society of Refrigerating Engineers. 304,752, renewed July 18, 1953. O. G. Feb. 2.
Publication, Monthly. The Garrett Corporation. 585,305, Feb. 2; Serial No. 646,752, published Nov. 3, 1953.
Publications, Monthly. Garfield Publishing Co., Inc. 585,360, Feb. 2; Serial No. 640,267.

CLASS 39

Brassières. Maidenform Brassiere Co., Inc. 585,345, Feb. 2; Serial No. 623,728.
Brassières, foundations, and girdles. Snug-Fit Foundations Company. 585,358, Feb. 2; Serial No. 639,669.
Clothing, Ladies', misses', children's, and infants'. Ohrbach's, Incorporated. 585,342, Feb. 2; Serial No. 611,912.
Coats, skirts, blouses, etc., Men's, women's, and children's knitted. Shelburne Sportswear. 585,344, Feb. 2; Serial No. 623,014.
Coats, vests, trousers, etc. J. Schoeneman, Inc. 307,861, renewed Nov. 7, 1953. O. G. Feb. 2.
Corselettes. Blair Corset Co., Inc. 585,317, Feb. 2; Serial No. 647,753, published Nov. 10, 1953.
Dresses, hats, coats, etc., Children's. Saks & Company. 585,362, Feb. 2; Serial No. 645,675.
Dresses, suits, blouses, etc., Women's, misses', and juniors'. L. & D. Bellinson, Inc. 585,279, Feb. 2; Serial No. 644,824, published Nov. 10, 1953.
Dresses, Women's and girls'. Darlene Juniors, Incorporated. 585,287, Feb. 2; Serial No. 645,551, published Nov. 3, 1953.
Foundation garments. The Strouse, Adler Company. 585,276, Feb. 2; Serial No. 644,576, published Nov. 3, 1953.
Garment, Outer sleeping. F. D. Martin. 585,341, Feb. 2; Serial No. 608,119.
Garments, Women's. William Hollins and Company, Limited. 74,515, July 20, 1909. New certificate. O. G. Feb. 2.
Girdles. Ward Green Company. 585,361, Feb. 2; Serial No. 645,209.
Gloves, Ladies'. Lee Begman, Inc. 585,289, Feb. 2; Serial No. 645,626, published Nov. 3, 1953.
Hosiery. Veitel Hosiery Company. 585,356, Feb. 2; Serial No. 635,159.
Jackets, Men's, boys', juniors', women's, and girls' sport. Winer Manufacturing Company. 430,602, June 17, 1947. Republished Feb. 2.
Neckties. William Hollins & Company, Limited. 81,274, Mar. 21, 1911. Republished Feb. 2.
Outerwear, Boys'. Hortex Manufacturing Co., Inc. 585,359, Feb. 2; Serial No. 639,934.
Overshoes and caps. Classic Plastics, Inc. 585,353, Feb. 2; Serial No. 633,533.
Panties, Ladies' and girls'. Archdale Manufacturing Co., Inc. 585,350, Feb. 2; Serial No. 632,194.
Shirts, Men's and boys' dress and negligee. Richey Shirt Manufacturing Corporation. 307,544, renewed Oct. 31, 1953. O. G. Feb. 2.
Shirts, Men's, boys', and ladies' sport. The Black Manufacturing Company. 585,357, Feb. 2; Serial No. 637,354.
Shoes, Ladies'. R. E. Champion. 585,346, Feb. 2; Serial No. 624,392.
Shoes, Women's. Carmo Shoe Manufacturing Company. 585,349, Feb. 2; Serial No. 629,554.
Shoes, Women's. John Irving Shoe Corporation. 520,258, Jan. 24, 1950. Corrected. O. G. Feb. 2.
Shoes, Women's. John Irving Shoe Corporation. 534,909, Dec. 19, 1950. Corrected. O. G. Feb. 2.
Shoes, Women's. John Irving Shoe Corporation. 549,330, Oct. 9, 1951. Corrected. O. G. Feb. 2.
Shoes, Women's. John Irving Shoe Corporation. 567,162, Nov. 25, 1952. Corrected. O. G. Feb. 2.
Suits, Gymnasium, play suits, choir gowns, etc. E. R. Moore Company. 393,638, Feb. 24, 1942. Republished Feb. 2.
Suits, Men's sport. Finchley, Inc. 222,032, Dec. 21, 1926. Republished Feb. 2.
Suspenders, Garment. Leethems (Twilfit) Limited. 308,689, renewed Dec. 19, 1953. O. G. Feb. 2.
Sweaters, Men's and women's, and men's and women's sweat shirts. Gardiner-Warring Company, Inc. 304,346, July 4, 1933. Republished Feb. 2.
Sweaters, Men's, women's, and children's; men's, women's, and children's sweat shirts, etc. Gardiner-Warring Company, Inc. 304,343, July 4, 1933. Republished Feb. 2.
T-shirts, Men's and boys'. Munsingwear, Inc. 585,348, Feb. 2; Serial No. 625,813.
Undergarments and intimate wear, Ladies' and girls'. Sondra Undergarments Co. Inc. 585,206, Feb. 2; Serial No. 627,708, published Nov. 10, 1953.
Underwear, Ladies'. Manhattan Undergarment Co., Inc. 585,273, Feb. 2; Serial No. 644,180, published Nov. 3, 1953.
Women's apparel. Seamprufe Incorporated. 585,322–3, Feb. 2; Serial Nos. 647,814–15, published Nov. 10, 1953.

CLASS 40

Barrettes. H. Goodman & Sons, Inc. 585,355, Feb. 2; Serial No. 634,253.
Bobby pin dispenser. Belisle's Pin-Whiz Co. 585,292, Feb. 2; Serial No. 645,859, published Nov. 3, 1953.

Closures and fasteners, crochet hooks and crochet needles, etc. Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik. 585,189, Feb. 2; Serial No. 613,816, published Nov. 3, 1953.
Hoods for the head for protecting coiffures, face make-up, etc. H. F. Stefan. 585,210, Feb. 2; Serial No. 629,866, published Nov. 10, 1953.

CLASS 42

Fabrics. Harry Zeller-Churgin Corp. 585,243, Feb. 2; Serial No. 636,398, published Nov. 10, 1953.
Fabrics, Textile. Dan River Mills, Incorporated. 585,196, Feb. 2; Serial No. 621,951, published Nov. 10, 1953.
Fabrics, Textile. Dan River Mills, Incorporated. 585,229, Feb. 2; Serial No. 634,301, published Nov. 10, 1953.
Fabrics, Textile. Deering, Milliken & Co., Inc. 585,230, Feb. 2; Serial No. 634,313, published Jan. 13, 1953.
Fabrics, Textile. Denis-Marcus, Inc. 585,325, Feb. 2; Serial No. 647,837, published Nov. 3, 1953.
Fabrics, Textile. D. B. Fuller & Co., Inc. 585,300, Feb. 2; Serial No. 646,611, published Nov. 3, 1953.
Fabrics, Textile. La France Industries, Inc. 585,307, Feb. 2; Serial No. 647,078, published Nov. 3, 1953.
Fabrics, Velvet and pile. Martin Fabrics Corporation. 585,326, Feb. 2; Serial No. 647,858, published Nov. 3, 1953.
Fabrics, Wool upholstery. The Laidlaw Co. Inc. 405,760, Feb. 22, 1944. Restricted. O. G. Feb. 2.
Fabrics, Woolen and worsted. Leeds Ltd. Coats, Inc. 585,316, Feb. 2· Serial No. 647,700, published Nov. 3, 1953.
Flannels etc., Unshrinkable. William Hollins & Company, (Nottingham) Limited. 27,847, Feb. 25, 1896. New certificate. O. G. Feb. 2.
Narrow elastic webbing. United Elastic Corporation. 585,224, Feb. 2; Serial No. 633,279, published Nov. 10, 1953.
Piece goods. The Millville Manufacturing Company. 585,320, Feb. 2; Serial No. 647,793, published Nov. 10, 1953.
Piece goods and blankets, travel rugs, etc. John Kaye & Son (Huddersfield) Limited. 585,253, Feb. 2; Serial No. 639,649, published Nov. 10, 1953.
Piece goods and/or combinations thereof, Cotton and/or rayon. M. Lowenstein & Sons, Inc. 585,244, Feb. 2; Serial No. 636,646, published Nov. 3, 1953.
Piece goods, Cotton. S. H. Kress and Company. 585,319, Feb. 2; Serial No. 647,781, published Nov. 10, 1953.
Piece goods, Cotton. The Millville Manufacturing Company. 311,358, renewed Mar. 20, 1954. O. G. Feb. 2.
Rugs and carpets, Textile, woven, woolen. Mohawk Carpet Mills, Inc. 585,321, Feb. 2; Serial No. 647,794, published Nov. 10, 1953.
Rugs, Braided and woven cotton and wool. Weartex Rug Company. 585,295, Feb. 2; Serial No. 646,246, published Nov. 3, 1953.
Sheets, Bed, and pillow cases. Erwin Mills, Inc. 585,270, Feb. 2; Serial No. 644,022, published Nov. 3, 1953.
Webbing. Martin Fabrics Corporation. 585,327, Feb. 2; Serial No. 647,864, published Nov. 10, 1953.

CLASS 43

Thread. The American Thread Company. 585,329, Feb. 2; Serial No. 648,277, published Nov. 10, 1953.
Thread. The American Thread Company. 585,324, Feb. 2; Serial No. 647,829, published Nov. 10, 1953.
Thread. I. Fleischer & Sons. 585,242, Feb. 2; Serial No. 636,354, published Nov. 3, 1953.
Thread and yarn. American Glanzstoff Corporation. 304,601, renewed July 11, 1953. O. G. Feb. 2.
Thread and yarn. The Clark Thread Company. 310,879, renewed Mar. 13, 1954. O. G. Feb. 2.
Thread filaments, Synthetic, and synthetic yarn. Allied Chemical & Dye Corporation. 585,234, Feb. 2; Serial No. 635,080, published Nov. 3, 1953.
Threads, yarns, and novelty yarns. The National Silk Company, Incorporated. 585,264, Feb. 2; Serial No. 643,178, published Nov. 10, 1953.
Yarns. Kahn and Feldman, Inc. 585,293, Feb. 2; Serial No. 646,071, published Nov. 10, 1953.

CLASS 44

Electrical heater used with permanent hair waving machines. Duart Manufacturing Co., Ltd. 326,582, July 30, 1935. Republished Feb. 2.
Hair waving pads, Chemical, and permanent hair waving solution. Duart Manufacturing Co., Ltd. 427,437, Feb. 11, 1947. Republished Feb. 2.
Surgical and medical body supports, etc. L. Cameto. 579,644, Sept. 8, 1953. Corrected. O. G. Feb. 2.

CLASS 45

Carbonated water. The Shasta Water Company. 585,208, Feb. 2; Serial No. 629,127, published May 26, 1953.
Grape juice. Hines-Park Foods, Inc. 585,272, Feb. 2; Serial No. 644,116, published Nov. 3, 1953.

CLASS 46

Butter and eggs. Samuel T. Cwick, Inc. 307,197, renewed Oct. 17, 1953. O. G. Feb. 2.
Candy confections. Stephen F. Whitman & Sons, Inc. 95,969, re-renewed Mar. 24, 1954. O. G. Feb. 2.
Canned fruits, berries, vegetables, etc. Oakford and Fahnestock. 93,246, re-renewed Aug. 26, 1953. O. G. Feb. 2.
Canned mushrooms. Keystone Mushroom Co., Inc. 309,319, renewed Jan. 9, 1954. O. G. Feb. 2.
Canned pimento peppers. Pomona Products Co. 189,856, Sept. 30, 1924. Republished Feb. 2.
Coffee and tea. A. Welser. 304,532, renewed July 11, 1953. O. G. Feb. 2.
Eggs. F. E. Wattles. 306,909, renewed Oct. 3, 1953. O. G. Feb. 2.
Flour, Durum wheat. Pillsbury Flour Mills Company. 373,855, Dec. 26, 1939. Republished Feb. 2.
Flour, Wheat. Pillsbury Flour Mills Company. 327,804, Sept. 3, 1935. Republished Feb. 2.
Flour, Wheat. Pillsbury Flour Mills Company. 342,949, Feb. 2, 1937. Republished Feb. 2.
Flour, Wheat. Pillsbury Flour Mills Company. 368,471, June 20, 1939. Republished Feb. 2.
Flour, Wheat. Pillsbury Flour Mills Company. 378,808, June 18, 1940. Republished Feb. 2.
Flour, Wheat. Pillsbury Flour Mills Company. 388,418, June 24, 1941. Republished Feb. 2.
Fruit-cake. Collin Street Bakery. 93,826, re-renewed Oct. 21, 1953. O. G. Feb. 2.
Fruits, Fresh deciduous, fresh grapes and fresh melons. Peters & Garabedian. 435,917, Jan. 13, 1948. Republished Feb. 2.
Grapes, Fresh. J. D. Martin. 214,776, July 6, 1926. Republished Feb. 2.
Milk, Sweet. M & R Dietetic Laboratories, Inc. 308,818, Dec. 19, 1933. Republished Feb. 2.
Olive oil. Marotta & Cella. 307,006, renewed Oct. 10, 1953. O. G. Feb. 2.
Sandwiches, Peanut butter. R. P. Schield. 308,947, renewed Dec. 26, 1953. O. G. Feb. 2.
Shortening, Animal fat. Geo. A. Hormel & Company. 443,005, July 5, 1949. Republished Feb. 2.
Sugar. Utah-Idaho Sugar Company. 226,319, Apr. 5, 1927. Republished Feb. 2.
Toffee. Europa Sales Corporation. 308,643, renewed Dec. 12, 1953. O. G. Feb. 2.
Vegetables, Fresh, fresh citrous fruits, fresh grapes, etc. J. D. Martin. 221,599, Dec. 7, 1926. Republished Feb. 2.
Vegetables, Frozen, and frozen fruits. Olney & Carpenter, Inc. 308,916, renewed Dec. 26, 1953. O. G. Feb. 2.

CLASS 47

Wines, Champagne. J. Krug. 309,963, renewed Feb. 6, 1954. O. G. Feb. 2.
Wines, Champagne. J. Krug. 310,128, renewed Feb. 13, 1954. O. G. Feb. 2.

CLASS 48

Beer. Aktieselskabet De Forenede Bryggerier. 310,178, renewed Feb. 13, 1954. O. G. Feb. 2.
Beer, ale, porter, and stout. J. Barbey. 307,273, renewed Oct. 24, 1953. O. G. Feb. 2.
Malt beverage. Best Malt Products Company. 308,271, renewed Nov. 28, 1953. O. G. Feb. 2.
Malt beverages, Fermented. F. W. Cook Company, Inc. 307,387, renewed Oct. 24, 1953. O. G. Feb. 2.
Stout. Arthur Guinness Son & Co., Ltd. 547,457, Sept. 4, 1941. Amended. O. G. Feb. 2.

CLASS 49

Cordials. Elco Products Corporation. 306,650, renewed Sept. 26, 1953. O. G. Feb. 2.
Gin. Hiram Walker & Sons Inc. 350,966, Oct. 12, 1937. Republished Feb. 2.
Gin. Hiram Walker & Sons Inc. 359,733, Aug. 30, 1938. Republished Feb. 2.
Gin. Hiram Walker & Sons, Limited. 304,242; June 27, 1933. Republished Feb. 2.
Whiskey. Jos. S. Finch & Company. 310,928, renewed Mar. 13, 1954. O. G. Feb. 2.
Whiskey. Glenmore Distilleries Co. 309,473, renewed Jan. 16, 1954. O. G. Feb. 2.
Whiskey. Glenmore Distilleries Co. 310,855, renewed Mar. 13, 1954. O. G. Feb. 2.
Whiskey. Jas. E. Pepper & Company. 310,909, renewed Mar. 13, 1954. O. G. Feb. 2.
Whiskey. Hiram Walker & Sons Inc. 327,784, Sept. 3, 1935. Republished Feb. 2.
Whiskey. Hiram Walker & Sons Inc. 327,788, Sept. 3, 1935. Republished Feb. 2.
Whiskey. Hiram Walker & Sons Inc. 337,436, Aug. 4, 1936. Republished Feb. 2.
Whisky. Archd. Campbell, Hope & King Limited. 307,515, renewed Oct. 24, 1953. O. G. Feb. 2.
Whisky. Hiram Walker & Sons, Limited. 304,243–4, June 27, 1933. Republished Feb. 2.
Whisky. Whyte & Mackay Limited. 307,378, renewed Oct. 24, 1953. O. G. Feb. 2.

CLASS 51

Hair waving pads, Chemical, and permanent hair waving solution. Duart Manufacturing Co., Ltd. 427,437, Feb. 11, 1947. Republished Feb. 2.
Perfumes, toilet water, sachet powder, etc. Richard Hudnut. 307,276, renewed Oct. 24, 1953. O. G. Feb. 2.

Permanent hair waving oil, permanent hair waving solution, etc. Duart Manufacturing Co., Ltd. 333,052, Mar. 10, 1936. Republished Feb. 2.
Pomade, Hair dressing, hair oil, brilliantine, etc. M. G. Neumann. 374,678, Jan. 23, 1940. Republished Feb. 2.

CLASS 52

Soaps and soap powders. Colgate & Co. 95,747, renewed Mar. 10, 1954. O. G. Feb. 2.
Sulfo derivative of higher fatty alcohols having cleansing and detergent properties. The Procter & Gamble Company. 304,886, renewed July 18, 1953. O. G. Feb. 2.

CLASS 100

Removal of unwanted hair from human bodies by electrolysis. D. T. Mosse. 585,367, Feb. 2; Serial No. 596,041.

LIST OF PLANT PATENTEES

Anderson, Frederic W., Merced, Calif. Nectarine tree. 1,248, Feb. 2.
Anderson, Frederic W., Merced, Calif. Nectarine tree. 1,249, Feb. 2.

LIST OF DESIGN PATENTEES

Admiral Corporation, assignee: *See*—
Miller, William J., Titus, and Wilson.
Altemiller, Arthur D., Affton, Mo., assignor to Hercules Steel Products Corporation, Galion, Ohio. Combination hot dog steamer and bun warmer. 171,371, Feb. 2.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Grancsay, Stephen V., and Ehlers.
Barnhart, A. Baker, assignor to The Rosenthal-Block China Corporation, New York, N. Y. Covered dish or similar article. 171,372, Feb. 2.
Berk Brothers Distilleries Inc., assignee: *See*—
Berkowitz, Hyman C.
Berkowitz, Hyman C., Wendell, Idaho, assignor to Berke Brothers Distilleries Inc., Boston, Mass. Decanter. 171,373, Feb. 2.
Berkowitz, Hyman C., Wendell, Idaho, assignor to Berke Brothers Distilleries Inc., Boston, Mass. Decanter. 171,374, Feb. 2.
Bernstein, Milton, assignor to National Silver Company, New York, N. Y. Spoon or similar article of flatware. 171,375, Feb. 2.
Borowitz, David, assignor to Bradley Manufacturing Company, Chicago, Ill. Electric lamp base. 171,376, Feb. 2.
Borowitz, David, assignor to Bradley Manufacturing Company, Chicago, Ill. Electric lamp base. 171,377, Feb. 2.
Borowitz, David, assignor to Bradley Manufacturing Company, Chicago, Ill. Electric lamp base. 171,378, Feb. 2.
Borowitz, David, assignor to Bradley Manufacturing Company, Chicago, Ill. Electric lamp base. 171,379, Feb. 2.
Borowitz, David, assignor to Bradley Manufacturing Company, Chicago, Ill. Electric lamp base. 171,380, Feb. 2.
Borowitz, David, assignor to Bradley Manufacturing Company, Chicago, Ill. Electric lamp base. 171,381, Feb. 2.
Boucher, Marcel, et Cie, assignee: *See*—
Semensohn, Raymonde.
Bradley Manufacturing Company, assignee: *See*—
Borowitz, David.
Brown, Robert J., Los Angeles, Calif. Fishing rod holder belt. 171,382, Feb. 2.
Budlong, Robert D., Skokie, Ill., assignor to Zenith Radio Corporation. Radio cabinet. 171,383, Feb. 2.
Butler, Charles W., Englewood, N. J., assignor to Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn. Lawn mower. 171,384, Feb. 2.
Butler, Charles W., Englewood, N. J., assignor to Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn. Gasoline motor housing. 171,385, Feb. 2.
Campbell, Laurie J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Toy walking pig. 171,386, Feb. 2.
Cayer, Theodore E., assignor to Reed and Barton Corporation, Taunton, Mass. Spoon or similar article. 171,387, Feb. 2.
Coro, Inc., assignee: *See*—
Katz, Adolph.
Du Pree, Ernest L., Weston, Conn., and D. Goldstein, assignors to Schenley Industries, Inc., New York, N. Y. Combined bottle stopper and pourer. 171,388, Feb. 2.
Du Pree, Ernest L., Weston, Conn., and D. Goldstein, assignors to Schenley Industries, Inc., New York, N. Y. Combined bottle stopper and pourer. 171,389, Feb. 2.
Eastman Kodak Company, assignee: *See*—
Knowles, Frederick G.
Ebert, Arthur A., Tucson, Ariz. Model stagecoach body for coaster wagons or similar article. 171,390, Feb. 2.
Ehlers, Russell W.: *See*—
Grancsay, Stephen V., and Ehlers.
Elion, Henri, New Rochelle, N. Y. Charm case. 171,391, Feb. 2.
Ellmore Silver Co., Inc., assignee: *See*—
Lipman, Isadore A.
Fink, Robert R., Duluth, Minn., assignor to International Telephone and Telegraph Corporation. Room air conditioning unit. 171,392, Feb. 2.
Fink, Robert R., Duluth, Minn., assignor to International Telephone and Telegraph Corporation. Freezer cabinet. 171,393, Feb. 2.
Flajole, William J., Birmingham, Mich. Wheel cover. 171,394, Feb. 2.
Flajole, William J., Birmingham, Mich. Wheel cover. 171,395, Feb. 2.
Fregeolle, Oscar, Central Falls, R. I., assignor to Rhody Knit, Inc. Sock. 171,396, Feb. 2.
Goldstein, Daniel: *See*—
Du Pree, Ernest L., and Goldstein.
Granat, Joseph, San Francisco, Calif. Watchcase. 171,397, Feb. 2.
Grancsay, Stephen V., New York, N. Y., and R. W. Ehlers, Silver Spring, Md., assignors to the United States of America as represented by the Secretary of the Army. Helmet. 171,398, Feb. 2.
Hercules Steel Products Corporation, assignee: *See*—
Altemiller, Arthur D.
Howes, Dawn, Suva, Fiji Islands. Doll. 171,399, Feb. 2.
Hughes, Robert W., Fort Worth, Tex. Hammer. 171,400, Feb. 2.
International Telephone and Telegraph Corporation, assignee: *See*—
Fink, Robert R.
Interstate Engineering Corporation, assignee: *See*—
Russell, Edward P.
Kaminsky, Philip F., Wantagh, N. Y. Game apparatus or similar article. 171,401, Feb. 2.
Kartveli, Alexander, Huntington, assignor to Republic Aviation Corporation, Farmingdale, N. Y. Airplane. 171,402, Feb. 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,403, Feb. 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,404, Feb. 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,405, Feb. 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,406, Feb. 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,407, Feb. 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,408, Feb. 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,409, Feb. 2.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,410, Feb. 2.
Kaufman, Samuel J., New York, N. Y. Combined desk clock and barometer. 171,411, Feb. 2.
Kinsey, Jerry E., St. Louis, Mo. Ornament for spectacle frames. 171,412, Feb. 2.
Knowles, Frederick G., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture camera. 171,413, Feb. 2.
Laskin, Eugene B., Baltimore, Md. Toy launching trailer. 171,414, Feb. 2.
Lipman, Isadore A., assignor to Ellmore Silver Co., Inc., Meriden, Conn. Combined bottle and can opener. 171,415, Feb 2.
Llorens, José A., Santurce Ward, San Juan, P. R. Handbag. 171,416, Feb. 2.
Manning, Oscar, Los Angeles, Calif. Spray nozzle. 171,417, Feb. 2.
Marx, Louis, & Company, Inc., assignee: *See*—
Campbell, Laurie J.
Miller, William J., and A. H. Titus, Jr., Galesburg, Ill., and L. H Wilson, Grosse Pointe, Mich., assignors to Admiral Corporation, Chicago, Ill. Instrument back panel for a stove. 171,418, Feb. 2.
Muzzy, George F., Malden, Mass. Combined glass holder and opener for bottles and jars. 171,419, Feb. 2.
National Silver Company, assignee: *See*—
Bernstein, Milton.
Ohio Foundry & Manufacturing Company, The, assignee: *See*—
Thompson, Harry E.
Panzer, William C., Chicago, Ill. Smoker's stand or similar article. 171,420, Feb. 2.
Parker, Henry G., New Orleans, La. Banana holding cup or similar article. 171,421, Feb. 2.
Parker, Henry G., New Orleans, La. Banana holding cup or similar article. 171,422, Feb. 2.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 171,423, Feb. 2.
Reed and Barton Corporation: *See*—
Cayer, Theodore E.
Republic Aviation Corporation, assignee: *See*—
Kartveli, Alexander.
Rhody Knit, Inc., assignee: *See*—
Fregeolle, Oscar.
Rosenthal-Block China Corporation, The, assignee: *See*—
Barnhart, A. Baker.
Russell, Edward P., assignor to Interstate Engineering Corporation, El Segundo, Calif. Floor polishing attachment for vacuum cleaners. 171,424, Feb. 2.

Schenley Industries, Inc., assignee: *See*—
Du Pree, Ernest L., and Goldstein.
Semensohn, Raymonde, assignor to Marcel Boucher et Cie, New York, N. Y. Brooch or similar article. 171,425, Feb. 2.
Shulman, Mynna F., Baltimore, Md. Book end or similar article. 171,426, Feb. 2.
Snyder, Mahlon C., Hamburg, N. Y. Fuel tank and holder therefor. 171,427, Feb. 2.
Storie, Lloyd F., Shaker Heights, assignor to The Vichek Tool Company, Cleveland, Ohio. Hose nozzle. 171,428, Feb. 2.
Thompson, Harry E., assignor to The Ohio Foundry & Manufacturing Company, Steubenville, Ohio. Dehumidifier. 171,429, Feb. 2.
Tint, Dorothy M., Brooklyn, N. Y. Doll or the like. 171,430, Feb. 2.
Titus, Armour H., Jr.: *See*—
Miller, William J., Titus, and Wilson.
Toro Manufacturing Corporation of Minnesota, assignee: *See*—
Butler, Charles W.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Villaudy, Albert F., Los Angeles, Calif. Slot machine bar. 171,431, Feb. 2.
Vichek Tool Company, The, assignee: *See*—
Storie, Lloyd F.
Wilson, Lawrence H.: *See*—
Miller, William J., Titus, and Wilson.
Zenith Radio Corporation, assignee: *See*—
Budlong, Robert D.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF FEBRUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Ackermann, Casper J., Omaha, Nebr. Proportional interpolator. 2,667,696, Feb. 2.
Adams, Arthur R., Glendale, E. D. Grizzard and P. C. Cady, Los Angeles, assignors to Adams Rite Manufacturing Company, Glendale, Calif. Sliding door lock mechanism. 2,668,071, Feb. 2.
Adams Rite Manufacturing Company, assignee: *See*—
Adams, Arthur R., Grizzard, and Cady.
Collar, Frank R., and Mitchell.
Grizzard, Earle D.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Reeves, Wilson A., and Guthrie.
Wolff, Ivan A., and Watson.
Aibel, Fredric L., Brooklyn, N. Y. Knitted fabric. 2,667,775, Feb. 2.
Ainsworth, George O., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,667,952, Feb. 2.
Air Associates, Incorporated, assignee: *See*—
Griswold, Owen H.
Kupiec, Harry P.
Air Reduction Company, Incorporated, assignee: *See*—
Spradling, Joseph W., and Engler.
Akroyd, Harold, assignor to Oldham and Son Limited, Denton, near Manchester, England. Portable fluorescent lamp. 2,668,229, Feb. 2.
Aktiebolaget Separator, assignee: *See*—
Lindgren, Hans O.
Aktiebolaget Separator-Nobel, assignee: *See*—
Palmqvist, Fredrik T. E.
Albert, Hans: *See*—
Seidenfaden, Wilhelm, and Albert.
Alexander, Thomas E., Houston, Tex. Apparatus for cementing wells. 2,667,926, Feb. 2.
Allen, John M., Toronto, Ontario, Canada, assignor to Scott & Williams, Incorporated, Laconia, N. H. Circular knit stocking and making same. 2,667,774, Feb. 2.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Harrer, Paul H.
Shupe, Leslie A.
Alm, Robert M., Highland, Ind., assignor to Standard Oil Company, Chicago, Ill. Gelling normally liquid hydrocarbons. 2,668,098, Feb. 2.
Alvarez, Luis W., Berkeley, Calif. Radio navigation system. 2,668,287, Feb. 2.
American Brake Shoe Company, assignee: *See*—
Browne, Lindsay H.
American Cyanamid Company, assignee: *See*—
Carpenter, Joseph E.
American Cystoscope Makers, Inc., assignee: *See*—
Wallace, Frederick J.
American Engineering Company, assignee: *See*—
Kumpf, August W., and Harvey.
American Gilsonite Company, assignee: *See*—
Baker, John H., and Nelson.
American Machine and Foundry Company, assignee: *See*—
Rundell, Rupert E., and Nejedly.
American Optical Company, assignee: *See*—
Moulton, Harold R.
Osterberg, Harold.
American Seal-Kap Corporation of Delaware, assignee: *See*—
Martin, Harold W.
Rodman, Francis C.
Vore, Herbert G., and Magalos.
American Steel Foundries, assignee: *See*—
Cottrell, Robert B., and Richardson.
Helsten, Wesley A.
Kayler, Frank H.
Maatman, Egbert J., and Lehrman.
Ramos, Lawrence F.
Seelig, Albert F., Jr.
American Television, Inc., assignee: *See*—
Taylor, Warren G.
American Viscose Corporation, assignee: *See*—
Hanse, William C.
Anderson, Charles H. J., and J. H. F. van Werd, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Lamp cap for tubular electric lamps. 2,668,277, Feb. 2.
Anderson, Hilda E., Ironwood, Mich. Greeting card. 2,667,711, Feb. 2.
Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Corporation, New York, N. Y. Item retaining mechanism for accounting machines. 2,668,010, Feb. 2.
Anderson, Walter A., Trumbull, Conn., assignor to Underwood Corporation, New York, N. Y. Total control mechanism for accounting machines. 2,668,011, Feb. 2.
Angelus Engineering Corporation, assignee: *See*—
Connell, Ralph.
Ansul Chemical Company, assignee: *See*—
Roney, Charles.
Apex Electrical Manufacturing Company, The, assignee: *See*—
Kortepeter, Ralph E., and Archbold.
Arabian, Karekin G., Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Preparation of paraffin waxes. 2,668,140, Feb. 2.
Archbold, Ralph L.: *See*—
Kortepeter, Ralph E., and Archbold.
Arkell and Smiths, assignee: *See*—
Jones, Tom L.
Armatys, Edward F., New York, assignor to Sun Chemical Corporation, Long Island City, N. Y. Textile printing water-in-oil emulsions having as the oil phase a thermoplastic resin plastisol emulsified in a thermosetting resin lacquer. 2,668,159, Feb. 2.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Jipp, John.
Musser, C Walton, and Turnbull.
Arnold, Melvin R., and H. M. Baugh, Louisville, Ky., assignors, by mesne assignments, to National Cylinder Gas Company, Chicago, Ill. Preparing mixtures of hydrogen and carbon oxides. 2,668,101, Feb. 2.
Arrow-Hart & Hegeman Electric Company, The, assignee: *See*—
Schleicher, Harold E.
Arthur, Edwin P.: *See*—
Gilbert, Paul T., Jr., and Arthur.
Asby, Harry A., Jr., Grosse Pointe, Mich. Rotatable bolt for submachine guns. 2,667,817, Feb. 2.
Askue, Albert R., Euclid, assignor to The Cleveland Trencher Company, Cleveland, Ohio. Excavating chain and bucket mechanism. 2,667,709, Feb. 2.
Atchison, Leonard W., Erie, Pa., assignor to General Electric Company. Two-temperature refrigerating system. 2,667,756, Feb. 2.
Ateliers de Construction Oerlikon, assignee: *See*—
Schneider, Hans.
Vogelsanger, Ernst, and Ubezio.
Atlas Imperial Diesel Engine Co., assignee: *See*—
Laxo, Ed.
Avco Manufacturing Corporation, assignee: *See*—
Bussard, Emmery J. H.
Avery, Leon M., assignor to Crouse-Hinds Company, Syracuse, N. Y. Resiliently mounted lamp receptacle. 2,668,278, Feb. 2.
Ayres, John E., assignor, by mesne assignments, to Oil Equipment Laboratories, Incorporated, Elizabeth, N. J. Pressurized container valve. 2,667,993, Feb. 2.
Babcock & Wilcox Company, The, assignee: *See*—
Silk, Philip B.
Bac-A-Brand Products, Inc., assignee: *See*—
Ganz, Harry.
Bach, John W., Port Chester, N. Y., assignor to Pitney-Bowes, Inc., Stamford, Conn. Envelope flap opening device. 2,668,053, Feb. 2.
Badische Anilin- & Soda-Fabrik Aktiengesellschaft, assignee: *See*—
Renpe, Walter, v Kutepow, and Leichtle.
Bain, Charles K., Bonne Terre, Mo. Method and apparatus for sinking mine shafts. 2,667,750, Feb. 2.
Baird, John B., and N. C. Turner, assignors to Hudson Engineering Corporation, Houston, Tex. Separation of hydrocarbons. 2,668,139, Feb. 2.
Baker, Allister L., Jersey City, assignor to Keuffel & Esser Company, Hoboken, N. J. Surveying instrument. 2,667,693, Feb. 2.
Baker, John H., Bonanza, and R. E. Nelson, assignors to American Gilsonite Company, Salt Lake City, Utah. Insulating a metal structure and insulated metal structure. 2,668,125, Feb. 2.
Baker Oil Tools, Inc., assignee: *See*—
Baker, Reuben C.
Saureman, Dean F., and Hilton.
Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Production packer apparatus. 2,667,928, Feb. 2.
Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Casing scraper. 2,667,931, Feb. 2.
Baker, William O., Morristown, N. J. Smokeless powder grains and making same. 2,668,132, Feb. 2.

Bakke, Hans A.: *See*—
Goss, James H., Mendelsohn, and Bakke.

Baldwin-Lima-Hamilton Corporation, assignee: *See*—
Larrecq, Anthony J.

Bancroft, Joseph C., Jamestown, N. Y. Awning type window. 2,667,950, Feb. 2.

Banes, Fred W., Westfield, W. P. FitzGerald, Elizabeth, J. F. Nelson, Rahway, N. J., and E. R. Gilliland, Arlington, Mass., assignors to Standard Oil Development Company. Production of alcohols. 2,668,181, Feb. 2.

Baresch, Charles A., College Point, assignor to Morse Boulger Destructor Company, New York, N. Y. Activator control. 2,668,085, Feb. 2.

Bargen, William J., Waukegan, Ill. Elevator top for desks. 2,668,093, Feb. 2.

Barnes, Tracy W., Webster Groves, assignor to John Ramming Machine Company, St. Louis, Mo. Thread chaser and chaser assembly. 2,667,651, Feb. 2.

Barnett, Clarence F., and C. B. Mills, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission. Ion source. 2,668,260, Feb. 2.

Barr & Stroud Limited, assignee: *See*—
MacGill, Charles D.

Barrett, Harry B., St. Louis, Mo. Brake lining testing machine. 2,667,781, Feb. 2.

Bata, narodni podnik, assignee: *See*—
Václavík, Jaroslav.

Batchelder, George E., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa. Piston meter. 2,667,784, Feb. 2.

Battle, Henry W., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky. Paintbrush cleaning method. 2,668,129, Feb. 2.

Bauer, Benjamin B., Oak Park, assignor to Shure Brothers, Incorporated, Chicago, Ill. Phonograph apparatus. 2,668,196, Feb. 2.

Baugh, Henry M.: *See*—
Arnold, Melvin R., and Baugh.

Bax, Clemens J., Kansas City, Mo. Receptacle cover. 2,667,988, Feb. 2.

Beale, Howard S., San Francisco, Calif. Gauge for setting jointer knives and methods. 2,667,702, Feb. 2.

Beasley, Allen G., assignor to C. W. Beasley, Spokane, Wash. Bicycle fork straightening tool. 2,667,798, Feb. 2.

Beasley, Charley W., assignee: *See*—
Beasley, Allen G.

Beaver, David J., Richmond Heights, assignor to Monsanto Chemical Company, St. Louis, Mo. Preservation of butadiene copolymers. 2,668,161, Feb. 2.

Beckman Instruments, Inc., assignee: *See*—
Gilbert, Paul T., Jr., and Arthur.

Becton, Dickinson and Company, assignee: *See*—
Dickinson, Fairleigh S., Jr.
May, Edwin A.

Beede, Arnold H., Stamford, assignor to Electrolux Corporation, Old Greenwich, Conn. Vacuum cleaner. 2,667,943, Feb. 2.

Beet, Frederick L.: *See*—
Edge, Stanley H., and Beet.

Beeton, Everett E.: *See*—
English, Henry W., and Beeton.

Behnisch, Robert, and F. Mietzsch, Wuppertal-Elberfeld, and H. Schmidt, Wuppertal-Vohwinkel, Germany, assignors to Schenley Industries, Inc., New York, N. Y. Homosulfanilamide salts of benzalthiosemicarbazones. 2,668,178, Feb. 2.

Bell & Gossett Company, assignee: *See*—
Tidd, Edwin B.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Brewer, Sherman T.
Cory, Samuel I.

Bemiss-Jason Company, assignee: *See*—
Christman, Paul.

Bendall, Wilfrid H., New York, N. Y. Drive chain. 2,667,792, Feb. 2.

Bendix Aviation Corporation, assignee: *See*—
Ainsworth, George O.
Kuzmitz, Andrew A.

Bengtsson, Bertil S., assignor to The Hart Manufacturing Company, Hartford, Conn. Electromagnetic relay or switch. 2,668,207, Feb. 2.

Bennett, Maurice D., Glenbrook, assignor to The Reflectone Corporation, Stamford, Conn. Variable switch operated positioning system. 2,668,263, Feb. 2.

Berardinelli, Frank: *See*—
Horback, William B., Berardinelli, and Paist.

Berkeley Pump Company, assignee: *See*—
Stadelhofer, Fred F.

Bernard, John G., Martinsville, Va., assignor to E. I. Du Pont de Nemours and Company, Wilmington, Del. High-frequency electronic drying apparatus. 2,668,226, Feb. 2.

Billings, Roy O., Milwaukee, Wis. Apparatus for handling automobiles. 2,667,983, Feb. 2.

Bishop, Lewis H., Burlingame, and L. W. Tribbett, Santa Monica, assignors, by mesne assignments, to W. H. Mead, Oakland, Calif. Air separator for reclaiming abrasives from waste materials. 2,667,969, Feb. 2.

Bixby, Leo A., Niles, assignor to Clark Equipment Company, Buchanan, Mich. Synchronizer. 2,667,955, Feb. 2.

Blackmon, John O., Torrance, Calif. Explosive-actuated harpoon. 2,667,814, Feb. 2.

Blasczyk, Leon, Glendale, Calif. Forming a body of salt. 2,667,663, Feb. 2.

Blaser, Bruno, Dusseldorf-Holthausen, and F. Weldes, Dusseldorf-Benrath, assignors to Henkel & Cie G. m. b. H., Dusseldorf-Holthausen, Germany. Producing a material containing sodium polyphosphates. 2,668,147, Feb. 2.

Blod, Francis E., Tuckahoe, N. Y., and A. M. Blumenfeld, Hackensack, N. J., assignors to The Gruen Watch Company, Cincinnati, Ohio. Front opening watch display box. 2,667,967, Feb. 2.

Blumenbaum, Louis G.: *See*—
Langlois, Roland E., and Blumenbaum.

Blumenfeld, Alfred M.: *See*—
Blod, Francis E., and Blumenfeld.

Boardman, Harold, assignor to Hercules Powder Company, Wilmington, Del. Preparation of aryldialkyl peroxides. 2,668,180, Feb. 2.

Bodine, Albert G., Jr., Van Nuys, Calif. Sonic system for augmenting the extraction of oil from oil bearing strata. 2,667,932, Feb. 2.

Boeing Airplane Company, assignee: *See*—
Davies, Charles H., and Ostling.

Bolelli, Aldo, Bologna, Italy. Centrifugal system of wet spinning of natural fibers. 2,667,733, Feb. 2.

Bolling, Warren E., Spring Lake, assignor to M. Hayman, Battle Creek, Mich. Coupling head for attaching towing devices to bumpers of automobiles. 2,668,064, Feb. 2.

Book Machinery Company Limited, The, assignee: *See*—
French, Lionel J. B. R.

Borg-Warner Corporation, assignee: *See*—
Gommel, Dewey E.
Hornaday, James R.
Ingersoll, Roy C.
Kanuch, John A.
Tenney, Raymond M., Hornaday, and Reeves.

Boulleny, R. H., Inc., assignee: *See*—
Moseley, Charles W.

Bowen, Bradford T., Rumford, assignor of one-half to R. F. Walker, Providence, R. I. Counterbore attachment. 2,667,795, Feb. 2.

Bowman, Donald F.: *See*—
Ward, Peter W., and Bowman.

Boyer, John R., Avondale, Pa., and R. M. Luckring, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. High-temperature packing. 2,667,684, Feb. 2.

Boyer, John R., Avondale, Pa., and R. M. Luckring, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. High-temperature packing. 2,667,804, Feb. 2.

Boyer, Ralph K., Lakewood, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Dispensing valve for pressurized dispensing containers. 2,667,991, Feb. 2.

Brandenberger, Jacques E., Paris, France, assignor to Societe la Cellophane, Basel, Switzerland. Method and apparatus for producing wrapped articles. 2,667,723, Feb. 2.

Brearley Company, The, assignee: *See*—
Provenzano, Mike A.

Bredemeier, Herbert, Ossining, assignor to The Norden Laboratories Corporation, New York, N. Y. Seal for rotary shafts. 2,668,068, Feb. 2.

Bregar, Joseph C., Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic limit bridge. 2,667,970, Feb. 2.

Breithaunt, Donald E.: *See*—
Murray, Charles H., and Breithaupt.

Bremer, Norman C., assignor to Morse Chain Company, Ithaca, N. Y. Silent chain. 2,667,791, Feb. 2.

Brettell, George A., Jr., Newark, N. J. Noninverting oscillator. 2,668,240, Feb. 2.

Brewer, Sherman T., Chatham Township, Morris County, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Marking and switching system. 2,668,195, Feb. 2.

Brewster, Oswald C., Litchfield, Conn. Fluid pressure transmitter. 2,667,886, Feb. 2.

Briggs, Stanford W., Westfield, R. G. Denkewalter, Plainfield, and G. B. Hughey, Metuchen, assignors to Merck & Co., Inc., Rahway, N. J. Vitamin B_{12} elution from charcoal. 2,668,137, Feb. 2.

Briggs, Walton E.: *See*—
Taylor, Clement F., Briggs, and Weary.

Broadway, Leonard F., Ickenham, assignor to Electric & Musical Industries Limited, Hayes, England. Electron discharge device having cavity resonator. 2,668,258, Feb. 2.

Brophy, John J., and R. R. Perron, Salem, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Adhesive bonding processes. 2,668,133, Feb. 2.

Brown, Ernest H., Binghamton, N. Y. Refrigerator apparatus. 2,667,759, Feb. 2.

Brown Fintube Company, assignee: *See*—
Brown, John W., Jr.

Brown, John W., Jr., Lakewood, assignor to Brown Fintube Company, Elyria, Ohio. Apparatus for twisting helical fins and bonding them to tubes. 2,667,852, Feb. 2.

Browne, Lindsay H., Weston, Conn., assignor to American Brake Shoe Company, Wilmington, Del. Compressor. 2,668,004, Feb. 2.

Bruce Engineering Corporation, assignee: *See*—
Bruce, John K., and Davis.

Bruce, John K., South Pasadena, and T. H. Davis, Alhambra, assignors to Bruce Engineering Corporation, Pasadena, Calif. Combined merchandising package and article carrier. 2,667,995, Feb. 2.

Bruning, Charles, Company, Inc., assignee: *See*—
Streich, Paul B., Sr.

Bruno, Victor M., and H. J. Wilson, Los Angeles, Calif. Umbrella. 2,667,884, Feb. 2.

Brutti, Pedro A., Buenos Aires, Argentina. Safety clasp. 2,667,675, Feb. 2.

Bryan, Norman L., Jr., Deland, Fla. Profile recording machine. 2,667,698, Feb. 2.

Bucci, Joseph, Philadelphia, Pa. Making frozen piazza. 2,668,117, Feb. 2.

Budd Company, The, assignee: *See*—
Dean, Walter B.
Haefner, Joseph T.

Buenger, Edward F., River Forest, Ill., R. R. Uhrmacher, Charlotte, N. C., E. Cairelli, Chicago, and G. J. Rundblad, Elmwood Park, assignors to Wilson Jones Company, Chicago, Ill. Ring setting machine. 2,667,797, Feb. 2.

Buist, Jack M., and G. W. Jamin, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Apparatus for measuring extension of samples under tension. 2,667,699, Feb. 2.

Burd, Gorman C., Clearwater, Fla. Seat frame. 2,667,916, Feb. 2.

Burndy Engineering Company, Inc., assignee: *See*—
Dupre, Henry P.
Matthysse, Irving F.

Burnelli, Vincent J., Englewood, N. J. Airplane flap and ground contact control means therefor. 2,668,027, Feb. 2.

Burrell, Clarence R., Cincinnati, Ohio. Resilient wheel. 2,667,767, Feb. 2.

Burt, Wesley S., Lynn, Mass., assignor to General Electric Company. Photocell angle response compensator. 2,668,246, Feb. 2.

Bussard, Emmery J. H., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Tuner for television receivers. 2,668,198, Feb. 2.

Butler, Frank D., Venice, Calif. Internal-combustion turbine. 2,667,744, Feb. 2.

By-Products Processing Laboratories, Inc., assignee: *See*—
Winkler, Joseph.

Cady, Paul C.: *See*—
Adams, Arthur R., Grizzard, and Cady.

Cafcas, Thomas H., Chicago, and A. W. Lindert, Homewood, assignors to Standard Oil Company, Chicago, Ill. Metal-working compositions. 2,668,146, Feb. 2.

Cairelli, Eremeldo: *See*—
Buenger, Edward F., Uhrmacher, Cairelli, and Rundblad.

Caldeira, Ruth A., Brooklyn, N. Y. Safety device for invalids' wheel chairs. 2,667,945, Feb. 2.

Caldwell, Carlyle G., Flushing, and O. B. Wurzburg, Babylon, assignors to National Starch Products Inc., New York, N. Y. Unsaturated starch compounds and insoluble derivatives thereof. 2,668,156, Feb. 2.

Campbell, Opie H., Missoula, Mont. Spinning reel. 2,668,024, Feb. 2.

Cantalupo, Francis J., assignor to Crane Co., Chicago, Ill. Flow control device. 2,667,900, Feb. 2.

Carbary, Richard J., Erie, Pa., assignor to General Electric Company. Mounting arrangement for storage receptacles. 2,668,092, Feb. 2.

Carlsen, Leonard O.: *See*—
Stewart, Arthur L., and Carlsen.

Carlton, William C., Hornchurch, England. Apparatus for manufacturing plastic shuttlecocks. 2,667,662, Feb. 2.

Carpenter, Joseph E., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Condensation products of higher fatty acids, polyalkylene polyamines and organic halides. 2,668,165, Feb. 2.

Carr, James P., Lansing, Mich., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Mirror and light beam apparatus for checking wheel alignment characteristics with correction for run-out. 2,667,805, Feb. 2.

Carrigan, Lester R.: *See*—
Potter, Harley O., and Carrigan.

Carris, James M., and C. L. Crane, La Habra, Calif., assignors, by mesne assignments, to said J. M. Carris. Machine for forming and preparing bodies of candy for wrapping. 2,667,847, Feb. 2.

Cartlidge, Frank, assignor to Goodman Manufacturing Company, Chicago, Ill. Drive mechanism for tractor treads. 2,667,938, Feb. 2.

Cartlidge, Frank, assignor to Goodman Manufacturing Company, Chicago, Ill. Combined cutting and loading machine. 2,668,039, Feb. 2.

Castlen, Robert C., West Palm Beach, Fla. Visible liquid level indicating nonspill vent mechanisms. 2,668,185, Feb. 2.

Cavanagh, James A., assignee: *See*—
McGill, Henry.

Cederquist, Karl N., assignor to Stora Kopparbergs Bergslags Aktiebolag, Falun, Sweden. Dewatering lignocellulosic materials in the production of fuel. 2,668,099, Feb. 2.

Celanese Corporation of America, assignee: *See*—
Horback, William B., Berardinelli, and Paist.

Certain-Teed Products Corporation, assignee: *See*—
Copeland, Randolph P.
Dalphone, Louis J.
Lindquist, John R.

Cerveny, Frank E.: *See*—
Jepson, Ivar, and Cerveny

Chamberlin Company of America, assignee: *See*—
Cook, John T., and Willett.

Chance, A. B., Company, assignee: *See*—
Cooper, James J., and Vordtriede.
Vordtriede, Oliver A.

Chapin, Edward W., Baltimore, and W. K. Roberts, Laurel, Md. Automatic switching of television receivers. 2,668,193, Feb. 2.

Chapman, James E., assignor to The Garrett Corporation, Los Angeles, Calif. Electric motor valve actuator system. 2,668,267, Feb. 2.

Chelf, Clarence C., Lebanon, Ky. Vehicle operation recorder with slow speed compensator. 2,668,094, Feb. 2.

Chien, Luther C., Pitman, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Castor oil soluble coloring composition for coating copying paper. 2,668,172, Feb. 2.

Childers, Spencer L., Fresno, and W. B. Warren, Madera, assignors to Vendorlator Manufacturing Company, Fresno, Calif. Coin changing mechanism. 2,667,880, Feb. 2.

Christensen, Paul M., West Orange, assignor to Federal Electric Products Company, Essex County, N. J. Automatic circuit breaker. 2,668,213, Feb. 2.

Christman, Paul, Belmont, assignor to Bemiss-Jason Company, San Francisco, Calif. Wallboard tape. 2,667,822, Feb. 2.

Church, Joseph H., Austin, Minn., and G. J. Kessenich, Madison, Wis. Apparatus for the use of shaped explosive charges. 2,667,836, Feb. 2.

Cincinnati Chemical Works Incorporated, assignee: *See*—
Monnier, Robert P.

Cissell, W. M., Manufacturing Company, Incorporated, assignee: *See*—
Kirchner, Herman C.

City National Bank & Trust Company, executor: *See*—
Peterson, Christen J.

Clark, Bryce L.: *See*—
Taylor, Nelson W., and Clark.

Clark, Earl K., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Washing apparatus. 2,668,091, Feb. 2.

Clark Equipment Company, assignee: *See*—
Bixby, Leo A.

Clark, William F., Portland, Oreg. Boat propeller. 2,667,936, Feb. 2.

Clarkson, Frank H., Coventry, England. Toolholder. 2,667,687, Feb. 2.

Clayton Dewandre Company Limited, assignee: *See*—
Edge, Stanley H., and Beet.

Clayton, Harold H., and A. D. Satterthwaite, assignors to Essex Wire Corporation, Logansport, Ind. Bulb socket assembly embodying means for fastening the same in a perforated panel. 2,668,281, Feb. 2.

Cleveland Trencher Company, The, assignee: *See*—
Askue, Albert R.

Cochrane Corporation, assignee: *See*—
Joos, Charles E.

Coeterier, Frederik, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric discharge tube of the cavity resonator type. 2,668,257, Feb. 2.

Cohn, Seymour B., Flushing, N. Y., assignor to The Sperry Corporation. Wave energy polarization converter. 2,668,191, Feb. 2.

Coleman, Robert S., Burton-on-Trent, England. Conveyor control apparatus. 2,667,957, Feb. 2.

Collar, Frank R., Los Angeles, and J. C. Mitchell, La Crescenta, assignors to Adams Rite Manufacturing Company, Glendale, Calif. Latch mechanism. 2,668,073, Feb. 2.

Combustion Engineering, Inc., assignee: *See*—
Crites, Joe

Compagnie Generale d'Electricite, assignee: *See*—
Domenach, Louis, and Macardier.

Compton, John D., New Castle County, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Manufacturing copper phthalocyanine. 2,668,171, Feb. 2.

Connell, Evan S., Jr., Santa Cruz, Calif. Bicycle attached toy machine gun. 2,667,720, Feb. 2.

Connell, Ralph, Los Angeles, assignor to Angelus Engineering Corporation, South Gate, Calif. Conductor system for electrified rails. 2,668,199, Feb. 2.

Consolidated Engineering Corporation, assignee: *See*—
Spaulding, Carl P.

Consolidated Vacuum Corporation, assignee: *See*—
Wishart, James.

Continental Copper & Steel Industries, Inc., assignee: *See*—
Elling, William E.

Cook, John T., Farmington, and L. E. Willett, assignors to Chamberlin Company of America, Detroit, Mich. Window construction. 2,667,669, Feb. 2.

Cook, John T., and L. E. Willett, assignors to Chamberlin Company of America, Detroit, Mich. Window construction. 2,667,671, Feb. 2.

Cook, Loren C., Benicia, Calif. Nonmetallic mine fuse. 2,667,838, Feb. 2.

Cooper, James J., and O. A. Vordtriede, St. Louis, assignors, by mesne assignments, to A. B. Chance Company, Centralia, Mo. Fuse cutout. 2,668,209, Feb. 2.

Copeland, Randolph P., Park Ridge, assignor to Certain-Teed Products Corporation, Chicago, Ill. Producing acoustical tile. 2,668,123, Feb. 2.

Copeland Refrigeration Corporation, assignee: *See*—
Curtis, Charles L.

Corbett, Gerald M., G. C. Wiggins and W. S. Thurber, assignors to The Dow Chemical Company, Midland, Mich. Esters of aralkylated cyclohexanols. 2,668,177, Feb. 2.

Cornell-Dubilier Electric Corporation, assignee: *See*—
Tregoning, William C.

Cornick, Carrington R., Richmond, Va. Combined stool and cabinet. 2,667,658, Feb. 2.

Cory Corporation, assignee: *See*—
Peters, Herbert W.

Cory, Samuel I., Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph signal distortion indicating and measuring device. 2,668,192, Feb. 2.

Cosmocord Plastics Limited, assignee: *See*—
Sturm, Robert H.

Cottrell, C. B., & Sons Company, assignee: *See*—
Ziebell, Theodore R.

Cottrell, Robert B., Chicago, and A. T. Richardson, Jr., St. Charles, assignors to American Steel Foundries, Chicago, Ill. Spring group. 2,668,050, Feb. 2.

Cowan, Charles V., Sacramento, Calif. Folding table. 2,668,089, Feb. 2.

Crane, Clarence L.: *See*—
Carris, James M., and Crane.

Crane Co., assignee: *See*—
Cantalupo, Francis J.

Criswell, Byron R.: *See*—
Gustafson, Gilbert E., and Criswell.

Criswell, Chesney H.: *See*—
Oxnard, Benjamin A., Criswell, and Thomas.

Crites, Joe, Larchmont, assignor to Combustion Engineering, Inc., New York, N. Y. Cyclone separator. 2,667,944, Feb. 2.

Croft, Harry P., Greens Farms, Conn., assignor to Kennecott Copper Corporation, New York, N. Y., Machinable titanium base tellurium alloy. 2,668,109, Feb. 2.

Crouse-Hinds Company, assignee: *See*—
Avery, Leon M.

Cummings, William W., Bradford, Vt. Balancing steam consumption in air conditioning. 2,667,766, Feb. 2.

Curry, Herman H., Inverness, Fla. Engine room telegraph. 2,668,285, Feb. 2.

Curtis, Charles L., Pasco, assignor to Copeland Refrigeration Corporation, Sidney, Ohio. Rupturable apparatus for sealing fluid system elements. 2,667,760, Feb. 2.

Curtiss-Wright Corporation, assignee: *See*—
Smith, Lawrence A., and Gamble.

Cussotti, Joseph N., assignor of 50 per cent to Vittorio Cussotti, Farmingdale, N. J. Poultry feeder. 2,667,858, Feb. 2.

Cussotti, Vittorio, assignee: *See*—
Cussotti, Joseph N.

Cutler-Hammer, Inc., assignee: *See*—
Hunter, Richard B., Pell, and Schmitz.

Cyrus Shank Company, assignee: *See*—
Konwal, Nick I.

Daiphone, Louis J., assignor to Certain-Teed Products Corporation, Chicago, Ill. Providing perforations in acoustical tiles. 2,667,925, Feb. 2.

Danly, George I.: *See*—
Danly, Philo H. and G. I., and Georgeff.

Danly Machine Specialties, Inc., The, assignee: *See*—
Danly, Philo H. and G. I., and Georgeff.

Danly, Philo H., Hinsdale, G. I. Danly, Elmhurst, and V. Georgeff, assignors to The Danly Machine Specialties, Inc., Chicago, Ill. Air-cooled press brake and clutch assembly. 2,667,954, Feb. 2.

Daugherty, George W., Orlando, Fla., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Spraying and dusting machine. 2,667,717, Feb. 2.

Davies, Charles H., and R. V. Ostling, Seattle, Wash., assignors to Boeing Airplane Company. Aircraft control column. 2,668,029, Feb. 2.

Davis, Arthur G., Grosse Pointe Park, Mich. Gauge unit. 2,667,701, Feb. 2.

Davis, Thomas H.: *See*—
Bruce, John K., and Davis.

Dawson, Edward, New York, assignor to The Sperry Corporation, Great Neck, N. Y. High-speed countermechanism. 2,668,013, Feb. 2.

Dawson, Melvyn H., Coral Gables, Fla. Semiautomatic parking garage building. 2,667,980, Feb. 2.

Dayton Aircraft Products, Inc., assignee: *See*—
Von Wald, Walter A., Jr., and Marshall.

Dean, Walter B., Paris, France, assignor to The Budd Company, Philadelphia, Pa. Self-propelled vehicle. 2,667,843, Feb. 2.

De Carlo, Joseph J., North Tarrytown, N. Y. Rocket motor hot ash extinguishing and cooling device. 2,667,839, Feb. 2.

De Cat, Arthur H., Kessel-Loo, Louvain, G. M. Sevens, Berchem-Antwerp, and A. E. Van Dormael, Heverlee-Louvain, assignors to Gevaert Photo-Producten N. V., Mortsel, Belgium. Manufacture of photographic color images. 2,668,112, Feb. 2.

De Jahn, Fredrik W., New York, assignor of one-half to A. N. Mann, Scarsdale, N. Y. Producing sponge iron. 2,668,105, Feb. 2.

De Laval Separator Company, assignee: *See*—
Spross, Hubert M.

De Laval Separator Company, The, assignee: *See*—
Scott, Walter A.

D'Ellia, Anthony, Jackson Heights, N. Y. Mouth and ear protector. 2,667,869, Feb. 2.

Demarest, Daniel D., Little Neck, N. Y. Dishwashing machine. 2,667,883, Feb. 2.

Deming Company, The, assignee: *See*—
Shallenberg, Walter A.

De Mott, Elmer G.: *See*—
Lamb, Anthony H., and De Mott.

Denkewalter, Robert G.: *See*—
Briggs, Stanford W., Denkewalter, and Hughey.

Derham, Leslie J.: *See*—
Robson, Stanley, and Derham.

Derr, Elmer B., Oak Park, Ill., assignor to International Harvester Company. Egg storage and dispensing device. 2,668,090, Feb. 2.

De Vlieg, Charles B., Farmington, Mich. Power lock for tools and the like. 2,667,819, Feb. 2.

De Vlieg, Charles B., Farmington, Mich. Power tool lock. 2,667,820, Feb. 2.

Devoe & Raynolds Company, Inc., assignee: *See*—
Battle, Henry W.

Dickinson, Fairleigh S., Jr., Ridgewood, assignor to Becton Dickinson and Company, Rutherford, N. J. Medicament cartridge assembly. 2,667,874, Feb. 2.

Dill Manufacturing Company, The, assignee: *See*—
Boyer, Ralph K.

Dole Valve Company, The, assignee: *See*—
Lund, James K.

Doll, Franz: *See*—
Van Ackeren, Paul, and Doll.

Domenach, Louis, and L. Macardier, Lyon, assignors to Compagnie Generale d'Electricite, Paris, France. Electric cable with oil pressure outside the insulation. 2,668,186, Feb. 2.

Donovan, William J., Pittsford, assignor to Trimble, Inc., Rochester, N. Y. Collapsible screen crib cover. 2,667,648, Feb. 2.

Dorgelo, Eduard G., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Discharge tube comprising a metal envelope and for use at very short wave-lengths. 2,668,256, Feb. 2.

Dow Chemical Company, The, assignee: *See*—
Corbett, Gerald M., Wiggins, and Thurber.
Eastman, John D.
Tolkmith, Henry.
Wolf, Paul A.

Downingtown Manufacturing Company, assignee: *See*—
McArn, Theodore A.

Doyle, Edward J., assignor to M. H. Rhodes Incorporated, Hartford, Conn. Two-speed timer. 2,667,921, Feb. 2.

Dray, Walter R., Yorkville, Ill. Header for harvester combines. 2,667,728, Feb. 2.

Dreier, Augustus S., assignee: *See*—
Hunting, Melvin J., and Mack.

Drummond, William D., Burlington, Ontario, Canada, assignor to International Harvester Company. Vehicle trailer with demountable hydraulic lift. 2,668,062, Feb. 2.

Druz, Walter S., Chicago, Ill., assignor to Zenith Radio Corporation. Noise-suppression system for television receivers. 2,668,234, Feb. 2.

Dry, John P., Winters, Tex. Cigar case humidifier. 2,668,038, Feb. 2.

Duerkob, Manfred F., St. Louis, Mo., assignor to McGraw Electric Company, Elgin, Ill. Holder for cartridge enclosed protectors for electric circuits. 2,668,215, Feb. 2.

Dunkle, Robert V.: *See*—
Gier, Joseph T., and Dunkle.

Dunlap, Charles K., Hartsville, S. C., assignor to Sonoco Products Company. Yarn shipping core. 2,668,020, Feb. 2.

Dunlap, Theodore M., executor: *See*—
Peterson, Christen J.

Dunlap, William C., Jr., Schenectady, N. Y., assignor to General Electric Company. Asymmetrically conductive device. 2,668,262, Feb. 2.

Dunlop Rubber Company Limited, assignee: *See*—
Trevaskis, Henry W.

Dunn, Carl H., Hyattsville, Md. Spirit level bracket. 2,667,704, Feb. 2.

Du Pont, E. I., de Nemours and Company, assignee: *See*—
Bernard, John G.
Boyer, John R., and Luckring.
Chien, Luther C.
Compton, John D.
Emig, Fred J., and Muth.
Fennell, Francis L.
Iler, Ralph K.
Lowe, Charles E.
McClellan, William R.
Menegus, Robert L., Friedman, and Gluckert.
Miller, Clarence E.
Morse, Rollin D., and von Wettberg.
Pikl, Josef.
Schwalenstocker, Henry J.

Dupre, Henry P., Croton-on-Hudson, N. Y., assignor to Burndy Engineering Company, Inc. Dead-end splice connector. 2,668,280, Feb. 2.

Dustin, Ernest G., near Galva, Ill. Body support and weight distributor. 2,667,913, Feb. 2.

Dustin, Ernest G., near Galva, Ill. Body support and weight distributor. 2,667,917, Feb. 2.

Dutro, Orville V., La Canada, Calif., assignor to The McBee Company, Athens, Ohio. Shuttle mechanism for feeding web to punch presses. 2,667,924, Feb. 2.

Dyer, John W.: *See*—
Short, Brooks H., and Dyer.

Eastman, John D., assignor to The Dow Chemical Company, Midland, Mich. Plant growth regulant compositions comprising chloroaryloxyacetic acids and esters thereof. 2,668,104, Feb. 2.

Eaves, William C., Elyria, Ohio. Wrench construction. 2,667,801, Feb. 2.

Edge, Stanley H., and F. L. Beet, assignors to Clayton Dewandre Company Limited, Lincoln, England. Hydraulic reducing valve. 2,667,747, Feb. 2.

Edmunds, William H., Havertown, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Assembly of two and three pole circut breakers. 2,668,206, Feb. 2.

Edwardson, John E., Tako, Saskatchewan, Canada. Walking doll action. 2,667,719, Feb. 2.

Eichholz, August G., St. Louis, Mo. Toy watch. 2,667,738, Feb. 2.

Eichhorn, Robert L.: *See*—
Harris, Charles D., Eichhorn, Prosek, and McNamara.

Eichmann, Theophil, Bern, Switzerland, assignor to G. B. Scarlett, Kennett Square, Pa., W. J. Scarlett, administrator of G. B. Scarlett, deceased. Regulating valve. 2,667,898, Feb. 2.

Ekstrom, Regner A., Jr., Harvey, Ill. Unitary heat exchange and particle collecting apparatus for combustion gases. 2,667,941, Feb. 2.

Electraulic Presses Limited, assignee: *See*—
Towler, John M. and F. H.

Electric & Musical Industries Limited, assignee: *See*—
Broadway, Leonard F.

Electrolux Corporation, assignee: *See*—
Beede, Arnold H.

Electrom, assignee: *See*—
Vintenon, André L.

Electronic Medical Foundation, assignee: *See*—
Hart, Fred J.

Elektrokemisk A/S, assignee: *See*—
Foyn, Kjeld.

Elling, William E., Metuchen, N. J., assignor to Continental Copper & Steel Industries, Inc., New York, N. Y. Translating and tilting davit. 2,667,649, Feb. 2.

Elman, Isadore J., Cazenovia, N. Y. Waistband construction. 2,667,643, Feb. 2.

Eltinge, Marshall, Salt Lake City, Utah. Book sterilizing machine. 2,667,672, Feb. 2.

Ely, Wilbur T., Tacoma, Wash. Necktie spreader. 2,667,642, Feb. 2.

Emig, Fred J., and M. J. Muth, Chicago, Ill., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Abrasion resistant wire enamels. 2,668,157, Feb. 2.

Engel, Willy, assignor of one-half to L. Teichmann, Geneva, Switzerland. Centrifugal floor washing machine. 2,667,652, Feb. 2.

Engineered Products Co., The, assignee: *See*—
Saxton, Millard F.

Engler, Pearl L.: *See*—
Spradling, Joseph W., and Engler.

English, Henry W., Linden, and E. E. Reeton, Fords, N. J. Accounting business form. 2,668,065, Feb. 2.

Enock, Arthur G., assignor to Graham-Enock Manufacturing Company Limited, London, England. Bottle capping machine. 2,667,998, Feb. 2.

Epstein, Hirsch, Chicago, Ill. Electrical conductor terminal with strain relieving means. 2,668,279, Feb. 2.

Eriksson, Erik B., Norrkoping, Sweden. Moth proofing woolen goods. 2,668,127, Feb. 2.

Esdale, William: *See*—
Smith, Charles J., and Esdale.

Essex Wire Corporation, assignee: *See*—
Clayton, Harold H., and Satterthwaite.

Evans Bros. Packing Co., assignee: *See*—
Evans, Ernest E.

Evans, Ernest E., assignor to Evans Bros. Packing Co., Riverside, Calif. Weight actuated elevator and transfer mechanism. 2,667,982, Feb. 2.

Fairchild Engine and Airplane Corporation, assignee: *See*—
Hoffacker, Theodore, Jr.

Fairfield, Elmer H., Ottawa, Ontario, Canada. Sheet material dispenser. 2,668,022, Feb. 2.

Falk, Harold W., Minneapolis, assignor to Wright Products, Inc., St. Paul Park, Minn. Door latch. 2,668,072, Feb. 2.

Falk, Harold W., Minneapolis, assignor to Wright Products, Inc., St. Paul Park, Minn. Window fastener. 2,668,074, Feb. 2.

Fanelli, Joseph A., U. S. Army. Combination packboard and sled. 2,667,996, Feb. 2.

Farbak, John E.: *See*—
Walker, John J., and Farbak.

Farmer, Delbert L.: *See*—
Hargrave, John M., and Farmer.

Federal Electric Products Company, assignee: *See*—
Christensen, Paul M.

Fennell, Francis L., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Bleaching chemical paper pulp. 2,668,095, Feb. 2.

Ferlaak, Bernard G., Jr.: *See*—
Whitson, Lee S., Tometz, and Ferlaak.

Ferrell, Tom F., Arlington, Tex. Facing concrete blocks with tile. 2,667,664, Feb. 2.

Finnegan, Lois M., Detroit, Mich., now by change of name Lois E. Moss. Hood-forming rain cloak. 2,667,641, Feb. 2.

Fisher, Howard J., China Lake, Calif., D. P. MacDougall, Los Alamos, N. Mex., and G. B. Kistiakowsky, Lincoln, Mass., assignors to the United States of America as represented by the Secretary of War. Liquid explosives. 2,668,102, Feb. 2.

Fitz Gerald, William P.: *See*—
Bates, Fred W., Fitz Gerald, Nelson, and Gilliland.

Fitzsimmons, William J., Chicago, Ill. Rubber seal. 2,668,067, Feb. 2.

Flaig, Max, Bridgeport, Conn. Resiliently expansible multisectional metallic bands. 2,667,739, Feb. 2.

Fleissner, H., & Sohn, Maschinenfabrik, assignee: *See*—
Kropf, Emil.

Food Machinery and Chemical Corporation, assignee: *See*—
Carr, James P.
Daugherty, George W.
Reese, Terrell J., and Wood.

Forbes, Clarence H., Salt Lake City, Utah. Invalid walker. 2,667,914, Feb. 2.

Fosness, John P.: *See*—
Martin, Eric L., and Fosness.

Foyn, Kjeld, assignor to Elektrokemisk A/S, Oslo, Norway. Electrode suspension mechanism and operation. 2,668,183, Feb. 2.

French, Lionel J. B. R., assignor to The Book Machinery Company Limited, London, England. Apparatus for feeding books and the like bodies in succession from a stack or tier thereof. 2,667,979, Feb. 2.

Frenkel, Isaac, assignee: *See*—
Nau-Touron, Albert.

Friedman, John H., assignor to The National Machinery Company, Tiffin, Ohio. Making hollow articles. 2,667,650, Feb. 2.

Friedman, Samuel J.: *See*—
Menegus, Robert L., Friedman, and Gluckert.

Frink, Frederick W., East Orange, N. J. Wide-band phase shifting means. 2,668,238, Feb. 2.

Fry, Benjamin W., Ladue, Mo. Simulated tennis game. 2,668,057, Feb. 2.

Fuller Brush Company, The, assignee: *See*—
Le Febvre, Alfred L.

Galazzi, Joseph A.: *See*—
Harris, Charles D., and Galazzi.

Galkin, Joseph, New York, N. Y. Trimming attachment for sewing machines. 2,667,850, Feb. 2.

Gall, George R., Cleveland, Ohio. Pane retainer. 2,667,951, Feb. 2.

Gall, John C.: *See*—
Henderson, James P., and Gall.

Gallihugh, Gordon W., Linden, Mich. Jet torpedo exhaust silencer or muffler for internal-combustion engines. 2,667,940, Feb. 2.

Gamble, Howard F.: *See*—
Smith, Lawrence A., and Gamble.

Gandert, Hans: *See*—
Ludwig, Georg, and Gandert.

Ganz, Harry, assignor to Bac-A-Brand Products, Inc., New York, N. Y. Belt buckle. 2,667,677, Feb. 2.

Garcia, Leoncio R., San Jose de las Lajas, Cuba. Fly trap. 2,667,716, Feb. 2.

Garrett Corporation, The, assignee: *See*—
Chapman, James E.

Garwood, Robert E., assignor to G. C. Jenkins, doing business as Skyway Precision Tool Company, Los Angeles, Calif. Adjustable break-through torque wrench. 2,667,800, Feb. 2.

Gaylor, Peter J., assignee: *See*—
Givens, Melvin.

Gasda, Antoine, Providence, R. I. Self-winding timepiece. 2,667,737, Feb. 2.

Gebrüder Bühler, assignee: *See*—
Tanner, Fritz.

General Electric Company, assignee: *See*—
Atchison, Leonard W.
Burt, Wesley S.
Carbary, Richard J.
Dunlap, William C., Jr.
Goss, James H., Mendelsohn, and Bakke.
Grimshaw, Charles S.
Henderson, Wayne L.
Rich, Theodore A.
Taylor, Clement F., Briggs, and Weary.

General Electric Company Limited, The, assignee: *See*—
Ward, Peter W., and Bowman.

General Metals Company, assignee: *See*—
Potter, Harley O., and Carrigan.

General Motors Corporation, assignee: *See*—
McCormick, Francis H.
Short, Brooks H., and Dyer.
Woughter, Holden D.

General Railway Signal Company, assignee: *See*—
Judge, Thomas J.

General Tire and Rubber Company, The, assignee: *See*—
Swart, Gilbert H., and Te Grotenhuis.

Gentzel, Perry H., State College, Pa. Pilot controlled main valve for fluid pressure systems. 2,667,892, Feb. 2.

Georgeff, Vasil: *See*—
Danly, Philo H. and G. I., and Georgeff.

Gevaert Photo-Producten N. V., assignee: *See*—
De Cat, Arthur H., Sevens, and Van Dormael.

Gier, Joseph T., Oakland, and R. V. Dunkle, Lafayette, assignors to The Regents of The University of California, Berkeley, Calif. Black body radiator and reflector. 2,667,806, Feb. 2.

Gilbert, Paul T., Jr., Alhambra, and E. P. Arthur, Altadena, Calif., assignors to Beckman Instruments, Inc. Glass electrode. 2,668,143, Feb. 2.

Gilliland, Edwin R.: *See*—
Banes, Fred W., Fitz Gerald, Nelson, and Gilliland.

Gloimo, Martino J., St. Louis, Mo. Flushing device for bottling machine valves. 2,667,882, Feb. 2.

Givens, Melvin, Montclair, assignor of one-half to P. J. Gaylor, Union, N. J. Tire chain holder. 2,667,907, Feb. 2.

Gjesdahl, Frederick H., Crookston, Minn. Snowplow and means for coupling the same to pusher trucks. 2,667,708, Feb. 2.

Glaze, Grady O., Washington, D. C. Rotary multiple selector switch. 2,668,200, Feb. 2.

Gleason, Howard S., Rochester, N. Y., assignor to Stromberg-Carlson Company. Magazine assembly. 2,668,021, Feb. 2.

Gleason Works, assignee: *See*—
Stewart, Arthur L., and Carlsen.

Glenny, Arthur P., Hanworth, and D. Waloff, Ealing, London, assignors, by mesne assignments, to The Sperry Gyroscope Company, Limited, Brentford, England. Gyroscopic apparatus. 2,667,705, Feb. 2.

Globe Automatic Sprinkler Company of Pennsylvania, assignee: *See*—
Rowley, Arthur C.

Gluckert, Frank A.: *See*—
Menegus, Robert L., Friedman, and Gluckert.

Goddard, Esther C., executrix: *See*—
Goddard, Robert H.

Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Means for supplying and cooling rocket type combustion chambers. 2,667,740, Feb. 2.

Goessele, George, executor: *See*—
Peterson, Christen J.

Gommel, Dewey E., Indianapolis, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Multiple-toothed circular saw with stabilizing holes. 2,667,904, Feb. 2.

Goodhue, Lyle D., Bartlesville, Okla., assignor to Phillips Petroleum Company. Disulfides as synergists for 2,4-D. 2,668,103, Feb. 2.

Goodman Manufacturing Company, assignee: *See*—
Cartlidge, Frank.
McCallum, Robert A.

Gordon, James R., and G. H. C. Norman, Copper Cliff, Ontario, Canada, P. E. Queneau, Westport, Conn., W. K. Sproule, and C. E. Young, Copper Cliff, Ontario, Canada, assignors to The International Nickel Company, Inc., New York, N. Y. Autogenous smelting of sulfides. 2,668,107, Feb. 2.

Goss, James H., Schenectady, N. Y., L. I. Mendelsohn, Lynn, and H. A. Bakke, Swampscott, Mass., assignors to General Electric Company. Unitary integrating meter and damping magnet structure. 2,668,275, Feb. 2.

Graef, John M., and K. J. Harwood, Neenah, and R. N. Sabee, Appleton, Wis., assignors to International Cellucotton Products Company, Chicago, Ill. Tampon applicator assembly conditioning method and apparatus. 2,667,666, Feb. 2.

Graham-Enock Manufacturing Company Limited, assignee: *See*—
Enock, Arthur G.

Gray, Truman G., Greenville, assignor to R. J. Higginbotham, Charlotte, N. C. Feed roll mounting for carding machines. 2,667,665, Feb. 2.

Great Western Sugar Company, The, assignee: *See*—
Oxnard, Benjamin A., Criswell, and Thomas.

Green, Sydney R., London, England. Weighing balance. 2,668,044, Feb. 2.

Grettve, Karl E. L., Lilla Edet, Sweden. Apparatus and method for creping paper. 2,667,910, Feb. 2.

Grimshaw, Charles S., Erie, Pa., assignor to General Electric Company. Automatic defrost control. 2,667,753, Feb. 2.

Grimshaw, Charles S., Erie, Pa., assignor to General Electric Company. Automatic defrost control. 2,667,754, Feb. 2.

Grimshaw, Charles S., Erie, Pa., assignor to General Electric Company. Automatic defrost control. 2,667,755, Feb. 2.

Griswold, Owen H., Ridgewood, assignor to Air Associates, Incorporated, Teterboro, N. J. Landing gear actuator. 2,667,953, Feb. 2.

Grizzard, Earle D.: *See*—
Adams, Arthur R., Grizzard, and Cady.

Grizzard, Earle D., Los Angeles, assignor to Adams Rite Manufacturing Company, Glendale, Calif. Latch locking control mounting. 2,668,069, Feb. 2.

Groth, Edward J., Jr., Woods Hole, Mass., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Voltage regulator. 2,668,272, Feb. 2.

Gruen Watch Company, The, assignee: *See*—
Blod, Francis E., and Blumenfeld.

Grumbly, Gerald P., West Palm Beach, Fla. Flavor injection unit for frozen desert machines. 2,667,846, Feb. 2.

Guggenheim, Daniel and Florence, Foundation, The, assignee: *See*—
Goddard, Robert H.

Gustafson, Gilbert E., River Forest, and B. R. Criswell, Waukegan, Ill., assignors to Zenith Radio Corporation. Wearable electronic hearing aid. 2,668,197, Feb. 2.

Guthrie, John D.: *See*—
Reeves, Wilson A., and Guthrie.

Haefner, Joseph T., assignor to The Budd Company, Philadelphia, Pa. Frame mounting and adjusting apparatus. 2,668,032, Feb. 2.

Hahn, Charles A., assignor to J. E. McAuley Mfg. Co., Chicago, Ill. Heat filter for intermittent light beam projectors. 2,667,807, Feb. 2.

Halford, George C., Jr., Cleveland Heights, Ohio. Tooth cleaning device having absorbent laminations. 2,667,655, Feb. 2.

Hallikainen, Kauko E., Berkeley, and D. J. Pompeo, Oakland, assignors to Shell Development Company, San Francisco, Calif. Continuous electrometric titration. 2,668,097, Feb. 2.

Hamm, Douglas W., assignor to Muskegon Piston Ring Company, Muskegon, Mich. Making piston rings. 2,668,131, Feb. 2.

Hammon, Henry G., Stevensville, Mich., assignor, by mesne assignments, to C. L. Wilson, Columbus, Ohio. Making a sponge material and the product resulting therefrom. 2,668,153, Feb. 2.

Hammond, Benjamin F.: *See*—
Hammond, Eleanor M. and B. F.

Hammond, Eleanor M. and B. F., assignors of forty per cent to E. V. Peterson, Brainerd, Minn. Tootpaste tube having a hollow head with a cap fitted thereon for controlling dispensing. 2,667,992, Feb. 2.

Hanse, William C., Philadelphia, Pa., assignor to American Viscose Corporation, Wilmington, Del. Side drawing winding device. 2,668,018, Feb. 2.

Hapman, Hannah J., assignee: *See*—
Hapman, Henry W.

Hapman, Henry W., assignor of forty per cent to H. J. Hapman, Detroit, Mich. Sprocket chain. 2,667,790, Feb. 2.

Hapman, Henry W., assignor of forty per cent to H. J. Hapman, Hickory Corners, Mich. Flight conveyer with flanged clamping disks. 2,667,962, Feb. 2.

Hargrave, John M., Cincinnati, and D. L. Farmer, Norwood, Ohio. Hand clamp. 2,667,678, Feb. 2.

Harmon, Kenneth A., Longmeadow, assignor to Wico Electric Company, West Springfield, Mass. High-frequency ignition system. 2,668,271, Feb. 2.

Harrer, Paul H., La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Control mechanism for rotary balers. 2,667,729, Feb. 2.

Harris, Charles D., R. L. Eichhorn, J. R. Prosek, and G. P. McNamara, Evansville, Ind., assignors to International Harvester Company. Cooling means for motor compressor units. 2,667,763, Feb. 2.

Harris, Charles D., and J. A. Galazzi, Evansville, Ind., assignors to International Harvester Company. Window mounted air conditioning unit. 2,667,765, Feb. 2.

Harris, Mechell F., Kansas City, Mo. Nursery seat with music box. 2,667,802, Feb. 2.

Harris-Seybold Company, assignee: *See*—
Hill, Frank M., and Le Blanc.

Harrison, George, Berwyn, Ill., assignor to National Lead Company, New York, N. Y. Apparatus for casting metallic rod. 2,667,673, Feb. 2.

Harstick, William H., Oak Park, Ill., assignor to International Harvester Company. Continuous milk filling system. 2,668,001, Feb. 2.

Hart, Arthur H., San Francisco, Calif. Drive for moving picture cameras. 2,667,808, Feb. 2.

Hart-Carter Company, assignee: *See*—
Johnson, Leonard.

Hart, Fred J., Salinas assignor to Electronic Medical Foundation, San Francisco, Calif. Electropad. 2,667,866, Feb. 2.

Hart Manufacturing Company, The, assignee: *See*—
Bengtsson, Bertil S.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Anderson, Charles H. J., and van Werd.
Coeterier, Frederik.
Dorgelo, Eduard G.
Jonker, Gerard H.
Kröger, Ferdinand A., and Boomgaard.
Ouweltjes, Jan L.
Van Iperen, Dirk C.

Harvey, Thomas A.: *See*—
Kumpf, August W., and Harvey.

Harwood, Kenneth J.: *See*—
Graef, John M., Harwood, and Sabee.

Hayman, Max, assignee: *See*—
Boiling, Warren E.

Hazeltine Research, Inc., assignee: *See*—
Okrent, Jasper J.

Heath, Roy W., Fresno, Calif. Electrically operated control system. 2,667,748, Feb. 2.

Hecht, Helmut: *See*—
May, Otto, and Hecht.

Heckendorf, Howard A., Chicago, Ill., assignor to International Harvester Company. Vacuum regulating device for pipe-line milkers. 2,667,856, Feb. 2.

Heldman, William A., Grand Rapids, Mich. Vent window control. 2,667,659, Feb. 2.

Hein, George N., Jr., San Carlos, Calif. Hypodermic injection apparatus. 2,667,871, Feb. 2.

Hein, George N., Jr., San Carlos, Calif. Ampoule. 2,667,873, Feb. 2.

Helsten, Wesley A., assignor to American Steel Foundries, Chicago, Ill. Rotor brake. 2,667,946, Feb. 2.

Henderson, James P., La Grange Park, and J. C. Gall, assignors to McAlear Manufacturing Company, Chicago, Ill. Pressure responsive valve positioner. 2,667,860, Feb. 2.

Henderson, Wayne L., Fort Wayne, Ind., assignor to General Electric Company. Combined low reactance autotransformer and ballast reactor. 2,668,250, Feb. 2.

Henkel & Cie G. m. b. H., assignee: *See*—
Blaser, Bruno, and Weldes.

Hensgen, Bernard T., assignor to Swift & Company, Chicago, Ill. Margarine coloring (pellet locating). 2,668,114, Feb. 2.

Hepp, Carlos A., Englewood, assignor to Alfred Hofmann & Co., West New York, N. J. Auxiliary yarn tensioning means. 2,667,772, Feb. 2.

Hepp, Carlos A., Englewood, assignor to Alfred Hofmann & Co., West New York, N. J. Warp tensioning bar for knitting machines. 2,667,773, Feb. 2

Hercules Powder Company, assignee: *See*—
Boardman, Harold.

Herman, Harry H., Denver, Colo. Device for forming pipe joints. 2,667,865, Feb. 2.

Hertrich, Joseph, assignor to The Western States Machine Company, Hamilton, Ohio. Heavy cyclical centrifugal machine. 2,667,974, Feb. 2.

Hess, Frederic O., assignor to Selas Corporation of America, Philadelphia, Pa. Furnace system. 2,668,040, Feb. 2.

Higginbotham, Robert J., assignee: *See*—
Gray, Truman G.

High, Carl F., Detroit, Mich. Fuel injection apparatus and control mechanism therefor. 2,667,840, Feb. 2.

Hill, Frank M., Walpole, and H. H. Le Blanc, Norwood, Mass., assignors, by mesne assignments, to Harris-Seybold Company, Cleveland, Ohio. Machine for cutting sheet material. 2,667,922, Feb. 2.

Hilldale, John H., assignor to Proctor Electric Company, Philadelphia, Pa. Pressure-operated actuating and relief valve. 2,667,891, Feb. 2.

Hilton, Paul E.: *See*—
Saurenman, Dean F., and Hilton.

Hines Flask Company, assignee: *See*—
Hines, Russell J.

Hines, Russell J., Lakewood, assignor, by mesne assignments, to Hines Flask Company, Cleveland, Ohio. Apparatus for making castings. 2,667,674, Feb. 2.

Hoffacker, Theodore, Jr., Hagerstown, Md., assignor to Fairchild Engine and Airplane Corporation. Automatic valve means. 2,667,887, Feb. 2.

Hoffmaster, George R., Esterly, assignor to Willson Products, Inc., Reading, Pa. Ventilated goggles. 2,667,640, Feb. 2.

Hofmann, Alfred, & Co., assignee: *See*—
Hepp, Carlos A.

Holan, J. H., Corporation, assignee: *See*—
Troche, Herman J., and Holan.

Holan, James H.: *See*—
Troche, Herman J., and Holan.

Holt, Leo G., Merrimac, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand tension control mechanism. 2,668,019, Feb. 2.

Hooker, Donald E., Skokie, and F. G. Nicolaus, assignors to R. T. Moloney, Chicago, Ill. Modulated light projector with scrambling drive. 2,668,230, Feb. 2.

Hooker, Donald E., Skokie, and F. G. Nicolaus, assignors to R. T. Moloney, Chicago, Ill. Follower and homing switch control means. 2,668,261, Feb. 2.

Horback, William B., Irvington, F. Berardinelli, Newark, and W. D. Paist, Berkeley Heights, N. J., assignors to Celanese Corporation of America, New York, N. Y. Thermoplastic composition plasticized with monopropyl dixylyl phosphate. 2,668,119, Feb. 2.

Horback, William B., Irvington, F. Berardinelli, South Orange, and W. D. Paist, Berkeley Heights, N. J., assignors to Celanese Corporation of America, New York, N. Y. Monopropyl dixylyl phosphate and process. 2,668,174, Feb. 2.

Hornaday, James R.: *See*—
Tenney, Raymond M., Hornaday, and Reeves.

Hornaday, James R., North Muskegon, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Condenser for refrigerating systems. 2,667,762, Feb. 2.

Horton, Paul V., Chevy Chase, Md., assignor to Plax Corporation, Hartford, Conn. Treating polyethylene and coated product. 2,668,134, Feb. 2.

Hudson Engineering Corporation, assignee: *See*—
Baird, John B., and Turner.
Turner, Nelson C.

Hughey, George B.: *See*—
Briggs, Stanford W., Denkewalter, and Hughey.

Hull, R. Dell, Tulsa, Okla. Fishing reel. 2,668,025, Feb. 2.

Hunt, Gerald R., Long Beach, Calif. Wiper for strings engaged in wells. 2,667,929, Feb. 2.

Hunter, Richard B., Cuernavaca, Morelos, Mexico, E. Pell, Shorewood, and N. L. Schmitz, Madison, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Load relay circuit for induction motors. 2,668,266, Feb. 2.

Hunter, Richard B., Cuernavaca Morelos, Mexico, E. Pell, Shorewood, and N. L. Schmitz, Madison, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Load relay circuit for induction motors. 2,668,268, Feb. 2.

Hunting, Melvin J., New Brunswick, and G. L. Mack, Somerville, assignors, by mesne assignments, to A. S. Dreier, North Plainfield, N. J. Luger conversion. 2,667,712, Feb. 2.

Huntington, William L., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control device and valve. 2,667,897, Feb. 2.

Huse, Hiram N., Foster, R. I. Ball-winding machine. 2,668,016, Feb. 2.

I-T-E Circuit Breaker Company, assignee: *See*—
Edmunds, William H.
Myers, Felix E.

ITEM Sociedad de Responsabilidad Limitada, assignee: *See*—
List, Enrique.

Ide, Whitman D., assignor to Scott & Williams, Incorporated, Laconia, N. H. Pattern means for circular knitting machines and operating same. 2,667,769, Feb. 2.

Ifield, Richard J., Elouera Exeter, New South Wales, Australia, assignor to Joseph Lucas Limited, Birmingham, England. Means for effecting and controlling the supply of liquid fuel to prime movers. 2,667,918, Feb. 2.

Ihlein, Ludwig A., Philadelphia, Pa. Curb finder for motor vehicles. 2,667,854, Feb. 2.

Iler, Ralph K., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Stabilization of silica sols with lithium hydroxide and product. 2,668,149, Feb. 2.

Illinois Clay Products Company, assignee: *See*—
West, Howard F., and Veale.

Imperial Chemical Industries Limited, assignee: *See*—
Buist, Jack M., and Jamin.
Lindgren, Hans O.

Ingersoll, Roy C., Winnetka, assignor to Borg-Warner Corporation, Chicago, Ill. Automatic receiving and ejecting means for presses. 2,667,853, Feb. 2.

International Cellucotton Products Company, assignee: *See*—
Graef, John M., Harwood, and Sabee.

International Electronics Company, The, assignee: *See*—
Roberts, Bruce.

International Harvester Company, assignee: *See*—
Derr, Elmer B.
Drummond, William D.
Harris, Charles D., Eichhorn, Prosek, and McNamara.
Harris, Charles D., and Galazzi.
Harstick, William H.
Heckendorf, Howard A.
Johnson, Arnold E. W., and Orelind.
Pool, Stuart D., and Karlsson.
Pool, Stuart D., and Melin.
Vogel, Hilmond O.
Voigt, August C.

International Nickel Company, Inc., The, assignee: *See*—
Gordon, James R., Norman, Queneau, Sproule, and Young.

Ireland, Henry W. T., assignee: *See*—
McGill, Henry.

Ivy, Andrew C.: *See*—
Vaichulis, John A., and Ivy.

Jackman, Frederick H., Santa Fe, N. Mex. Apparatus for molding building blocks. 2,667,679, Feb. 2.

Jackson, Donald R. P., assignor to Molins Machine Company Limited, Deptford, London, England. Packing machine. 2,667,987, Feb. 2.

Jackson, Norman W.: *See*—
Molins, Desmond W., Ruau, and Jackson.

Jacobson, Abner: *See*—
Spencer, Arthur M., Jacobson, and Sixt.

Jacobson, Victor, assignor, by mesne assignments, to Level-Line Ceilings, Inc., New York, N. Y. Acoustic ceiling construction. 2,667,667, Feb. 2.

Jaffee, Robert I., Worthington, Ohio, assignor, by mesne assignments, to Kennecott Copper Corporation, New York, N. Y. Machinable titanium-base alloy containing arsenic. 2,668,108, Feb. 2.

Jamin, Guillaume W.: *See*—
Buist, Jack M., and Jamin.

Jaros, Joseph F., Chicago, Ill., assignor of one-half to H. N. Seversen, Ardmore, Pa. Device for advancing film strips. 2,667,810, Feb. 2.

Jeffrey Manufacturing Company, The, assignee: *See*—
Lee, Arthur L.
Muller, Ernst F.

Jenkins, Alexander, King's Cross, London, assignor to Westinghouse Brake and Signal Company Limited, London, England. Mold for use in the manufacture of dry rectifiers. 2,667,722, Feb. 2.

Jenkins, George C., assignee: *See*—
Garwood, Robert E.

Jepson, Ivar, Oak Park, and F. E. Cerveny, Berwyn, assignors to Sunbeam Corporation, Chicago, Ill. Shipping and display case for shavers and the like. 2,667,966, Feb. 2.

Jipp, John, Houston, Tex., assignor to the United States of America as represented by the Secretary of the Army. Coaxial cable antenna connector. 2,668,239, Feb. 2.

Johnson, Arnold E. W., Oak Park, and J. R. Orelind, Wilmette, Ill., assignors to International Harvester Company. Wheel support for tandem disk harrows. 2,667,724, Feb. 2.

Johnson, Leonard, assignor to Hart-Carter Company, Minneapolis, Minn. Resilient bumper stop for separator screens. 2,667,971, Feb. 2.

Johnson, Leonard, assignor to Hart-Carter Company, Minneapolis, Minn. Unattached screen clearer which can be rendered inoperative. 2,667,972, Feb. 2.

Johnson, Orvin S., Manhattan Beach, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Anatomical knee and hydraulic snubber. 2,667,644, Feb. 2.

Johnson, Paul S., Newington, Conn. Maximum security door. 2,668,052, Feb. 2.

Johnson, S. C., & Son, Inc., assignee: *See*—
Rogers, Charles F.
Weidner, Max.

Johnston, Mordica O., Glendale, Calif. Valve for well testing tools. 2,667,927, Feb. 2.

Jones, Paul L., Green Township, Summit County, Ohio. Mouthpiece for musical instruments. 2,667,803, Feb. 2.

Jones, Tom L., Columbus, Ohio, assignor to Arkell and Smiths. Valve bag. 2,668,003, Feb. 2.

Jonker, Gerard H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric insulator. 2,668,118, Feb. 2.

Joos, Charles E., Wyncote, assignor to Cochrane Corporation, Philadelphia, Pa. Treatment of water for the removal of silica. 2,668,144, Feb. 2.

Jorgenson, John P.: *See*—
Kling, Olaf E., and Jorgenson.

Judge, Thomas J., assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. 2,668,231, Feb. 2.

Kamborian, Jacob S., West Newton, Mass. Upholstering machine. 2,667,908, Feb. 2.

Kanter, Jack C., Norfolk, Va. Water shield. 2,668,081, Feb. 2.

Kanuch, John A., South Euclid, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill. Unloading valve. 2,667,896, Feb. 2.

Kaplan, Benjamin D., Burbank, Calif. Moisture responsive signaling device. 2,668,202, Feb. 2.

Karlsson, Elof K.: *See*—
Pool, Stuart D., and Karlsson.

Kavler, Frank H., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Rotatable car and train-line coupler arrangement. 2,667,977, Feb. 2.

Keiper, Phillip C., Shrewsbury, and W. M. Ostrander, Hackensack, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Direct-current motor control system. 2,668,265, Feb. 2.

Kennecott Copper Corporation, assignee: *See*—
Croft, Harry P.

Kennecott Copper Corporation, assignee: *See*—
Jaffee, Robert I.

Kennedy, Thomas J.: *See*—
Reynolds, William B., Wicklatz, and Kennedy.

Kessenich, Gregory J.: *See*—
Church, Joseph H., and Kessenich.

Kessler, Frank and W. W. Pharis, Rochester, N. Y., assignors to Stromberg-Carlson Company. Finder-allotter circuit for telephone systems. 2,668,194, Feb. 2.

Keuffel & Esser Company, assignee: *See*—
Baker, Allister L.

Kiel, Kenneth M., assignor to King-Seeley Corporation, Ann Arbor, Mich. Interval timer. 2,667,736, Feb. 2.

King-Seeley Corporation, assignee: *See*—
Kiel, Kenneth M.
Sivacek, Emil E.

Kingston, Willard L., Lucerne, Calif. Expansion joint for pipe lines. 2,667,899, Feb. 2.

Kirby, John H., II, Houston, Tex. Magnetic fishing tool. 2,668,077, Feb. 2.

Kirchner, Herman C., assignor to W. M. Cissell Manufacturing Company, Incorporated, Louisville, Ky. Double jet spray gun. 2,668,083, Feb. 2.

Kistiakowsky, George B.: *See*—
Fisher, Howard J., MacDougall, and Kistiakowsky.

Klager, Karl, Monrovia, Calif. Dinitrobutyrates. 2,668,176, Feb. 2.

Klemm, William F., Detroit, Mich. Cable and reel for lowering objects of different weight at constant speed. 2,668,036, Feb. 2.

Kling, Olaf E., Chicago, and J. P. Jorgenson, Wilmette, Ill. Washing machine with end dump doors. 2,667,777, Feb. 2.

Knaus, Nicholaus, Cranford, and A. G. Millington, Clifton, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 2,667,851, Feb. 2.

Knibbs, Norman V. S., New Barn, Longfield, England. Heat treatment of finely divided solids. 2,668,041, Feb. 2.

Knudsen Creamery Co. of California, assignee: *See*—
Sellstrom, Lawrence T.

Koci, Ludvik J., Riverside, assignor to Sunbeam Corporation, Chicago, Ill. Automatic toaster. 2,667,828, Feb. 2.

Konwal, Nick I., Cicero, assignor to Cyrus Shank Company, Chicago, Ill. Valve. 2,668,034, Feb. 2.

Koppers Company, Inc., assignee: *See*—
Martin, Edwin D.
Van Ackeren, Paul, and Doll.

Korshin, Jack: *See*—
Levinson, Benjamin L., and Korshin.

Kortepeter, Ralph E., Cleveland Heights, and R. L. Archbold, Euclid, assignors to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Under liquid seal for rotatable shafts. 2,667,776, Feb. 2.

Krag, Franz K., Chicago, Ill. Can opener and the like. 2,667,690, Feb. 2.

Kröger, Ferdinand A., and J. van den Boomgaard, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Thallium activated calcium phosphate phosphor containing aluminum. 2,668,148, Feb. 2.

Kropf, Emil, assignor to H. Fleissner & Sohn, Maschinenfabrik, Bayreuth, Germany. Drying device for skeins of yarn. 2,667,707, Feb. 2.

Kuda, Edward G., Brookfield, Ill. Collapsible and extensible luggage carrier. 2,668,061, Feb. 2.

Kumpf, August W., Conshohocken, and T. A. Harvey, Havertown, assignors to American Engineering Company, Philadelphia, Pa. Steering apparatus. 2,667,746, Feb. 2.

Kupiec, Harry P., Paramus, assignor to Air Associates, Incorporated, Teterboro, N. J. Relief valve. 2,667,893, Feb. 2.

Kuzmitz, Andrew A., assignor to Bendix Aviation Corporation, South Bend, Ind. Starting system for gas turbine engines. 2,667,742, Feb. 2.

La Baume, Hypolite L., Toccoa, Ga., assignor to R. G. Le Tourneau, Inc., Peoria, Ill. Voltage regulating system. 2,668,270, Feb. 2.

Laibson, Irvin M., Cincinnati, Ohio. Case for glasses. 2,667,965, Feb. 2.

Lamb, Anthony H., Hillside, and E. G. De Mott, Chatham, assignors to Weston Electrical Instrument Corporation, Newark N. J. Sensitive relay. 2,668,208, Feb. 2.

Langlois, Roland E., West Warwick, and L. G. Blumenbaum, Cranston, R. I., assignors to P. L. Schulz, Philadelphia, Pa. Napper. 2,667,681, Feb. 2.

Larrecq, Anthony J., Yardley, Pa., assignor to Baldwin-Lima-Hamilton Corporation. Turbocharger. 2,668,006, Feb. 2.

Lawrence, Leroy E.: *See*—
Winterburn, George A., Walworth, and Lawrence.

Laxo, Ed, assignor to Atlas Imperial Diesel Engine Co., Oakland, Calif. Rotary can end marker. 2,667,830, Feb. 2.

Lenf, Clyde W., and L. M. Liggett, assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich. Water-soluble films. 2,668,120, Feb. 2.

Leafstrand, Douglas J., Ludington, Mich. Bow sight. 2,667,692, Feb. 2.

Lear, Joseph D., assignor to Posting Equipment Corporation, Buffalo, N. Y. Tiltable compressor plate for posting trays. 2,667,876, Feb. 2.

Le Blanc, Harold H.: *See*—
Hill, Frank M., and Le Blanc.

Lee, Arthur L., Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company. Follow-up valve for vehicle brake operating mechanisms. 2,667,888, Feb. 2.

Lee, Leighton, II, Rocky Hill, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Fuel control apparatus for internal-combustion engines. 2,667,743, Feb. 2.

Lee, Norman E., Forest Hills, N. Y. Mounting. 2,668,033, Feb. 2.

Leeds and Northrup Company, assignee: *See*—
Williams, Albert J., Jr.

Le Febvre, Alfred L., Windsor, assignor to The Fuller Brush Company, Hartford, Conn. Combined mop and wringer. 2,667,653, Feb. 2.

Lehrman, Leo A.: *See*—
Maatman, Egbert J., and Lehrman.

Leichtle, Otto: *See*—
Reppe, Walter, v Kutepow, and Leichtle.

Lentz, Irvin R., and D. B. Van Dolah, assignors to Swift & Company, Chicago, Ill. Poultry picking shackle. 2,667,660, Feb. 2.

Le Roy, Eugene: *See*—
Murdock, Joseph K., and Le Roy.

Le Tourneau, R. G., Inc., assignee: *See*—
La Baume, Hypolite L.

Level-Line Ceilings, Inc., assignee: *See*—
Jacobson, Victor.

Levinson, Benjamin L., New York, and J. Korshin, Cedarhurst, N. Y., assignors to Levinson Manufacturing Co., Incorporated, Pawcatuck, Conn. Lamp structure. 2,668,228, Feb. 2.

Levinson Manufacturing Co., Incorporated, assignee: *See*—
Levinson, Benjamin L., and Korshin.

Librascope, Incorporated, assignee: *See*—
Opocensky, Willard J.

Liggett, Lawrence M.: *See*—
Leaf, Clyde W., and Liggett.

Lindeman, Myrl A., Drexel Hill, assignor to Sun Oil Company, Philadelphia, Pa. Differential counter. 2,668,012, Feb. 2.

Lindert, Albert W.: *See*—
Cafcas, Thomas, and Lindert.

Lindgren, Hans O., Smedslatten, assignor of one-half to Aktiebolaget Separator, Stockholm, Sweden, and one-half to Imperial Chemical Industries, Limited, London, England. Recovering protein from protein-bearing material. 2,667,973, Feb. 2.

Lindquist, John R., Chicago, Ill., assignor to Certain-Teed Products Corporation, Ardmore, Pa. Paper making processes. 2,668,111, Feb. 2.

List, Enrique, assignor to ITEM Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina. Electromagnetic oscillatory motor provided with a cutting-action core. 2,668,251, Feb. 2.

Lister, Fred: *See*—
Zellner, Carl N., and Lister.

Livingstone Engineering Company, assignee: *See*—
Livingstone, Stanley.

Livingstone, Stanley, Chattanooga, Tenn., assignor to Livingstone Engineering Company, Worcester, Mass. Vaporizable liquid electrode boiler. 2,668,225, Feb. 2.

Lockheed Aircraft Corporation, assignee: *See*—
Price, Nathan C.

Long, Harry J., assignor to Swift & Company, Chicago, Ill. Scalding poultry. 2,667,661, Feb. 2.

Loos, Pieter: *See*—
Mijnlieff, Ary J., van Rietschoten, and Loos.

Lorig, Edwin T., Ross Township, Allegheny County, Pa., assignor to United States Steel Corporation. Apparatus for positioning strip. 2,668,054, Feb. 2.

Lowe, Charles E., Buffalo, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of high molecular weight polyhydroxyacetic ester. 2,668,162, Feb. 2

Lucas, Joseph, Limited, assignee: *See*—
Ifield, Richard J.

Lucien, René, Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland. Wheel equipped with disk brake. 2,667,947, Feb. 2.

Luckring, Richard M.: *See*—
Boyer, John R., and Luckring.

Ludwig, Georg, Hamburg-Harburg, and H. Gandert, Hamburg-Marmsdorf, Germany. Conveyer belt. 2,667,789, Feb. 2.

Lund, James K., assignor to The Dole Valve Company, Chicago, Ill. Vacuum control. 2,668,014, Feb. 2.

Luvisi, George W., assignor to National Aluminate Corporation, Chicago, Ill. Corrosion inhibitor for liquid hydrocarbons. 2,668,100, Feb. 2.

Luvisi, George W., assignor to National Aluminate Corporation, Chicago, Ill. Antifoam compositions and foam inhibition. 2,668,150, Feb. 2.

Maatman, Egbert J., and L. A. Lehrman, assignors to American Steel Foundries, Chicago, Ill. Snubbed truck. 2,667,845, Feb. 2.

Macardier, Louis: *See*—
Domenach, Louis, and Macardier.

MacDougall, Duncan P.: *See*—
Fisher, Howard J., MacDougall, and Kistiakowsky.

MacGill, Charles D., assignor to Barr & Stroud Limited, Glasgow, Scotland. Extensible optical sighting or observation instrument. 2,667,813, Feb. 2.

Mack, George L.: *See*—
Hunting, Melvin J., and Mack.

Magalos, Arthur C.: *See*—
Vore, Herbert G., and Magalos.

Malhiot, Clarence J., Oak Park, assignor to F. B. Redington Co., Chicago, Ill. Conveying and transferring mechanism. 2,667,958, Feb. 2.

Mallabar, Herbert J., Watford, England, assignor to Oxford Corporation, Dayton, Ohio. Manufacture of decorative laminae. 2,668,124, Feb. 2.

Mann, Alan N., assignee: *See*—
De Jahn, Fredrik W.

Mann, John J., Milwaukee, Wis., and J. A. McDonnell, assignors to Mazeko Enterprises, Inc., New York, N. Y. Apparatus for implanting hair in manikins, dolls, and the like. 2,667,879, Feb. 2.

Manning, Zeno C., San Francisco, Calif. Cigar and cigarette extinguisher. 2,667,878, Feb. 2.

Mapes, Daniel, West Caldwell, assignor to Specialties Development Corporation, Belleville, N. J. Apparatus for detecting suspended matter in fluids. 2,668,284, Feb. 2.

Marano, Herbert W., Brooklyn, N. Y., assignor to Wilson-Jones Company, Chicago, Ill. Stapling machine. 2,667,637, Feb. 2.

Marcroft, Jesse, Rehoboth, Mass., assignor to Universal Winding Co., Cranston, R. I. Wire guide. 2,668,017, Feb. 2.

Marshall, Thomas E., III: *See*—
Von Wald, Walter A., Jr., and Marshall.

Martin, Edwin D., Chicago, Ill., assignor, by mesne assignments, to Koppers Company, Inc., Pittsburgh, Pa. Apparatus and method for continuous pickling and regeneration of contact acid. 2,668,130, Feb. 2.

Martin, Eric L., and J. P. Fosness, Santa Monica, Calif., assignors to North American Aviation, Inc., Aircraft arresting gear. 2,668,031, Feb. 2.

Martin, Harold W., Malverne, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Bottle capping machine control mechanism. 2,668,203, Feb. 2.

Martlin & Lawrie Limited, assignee: *See*—
Martlin, Robert F.

Martlin, Robert F., assignor to Martlin & Lawrie Limited, Hamilton, Ontario, Canada. Developing chamber for developing fume sensitive printing papers. 2,667,826, Feb. 2.

Marton, Paul, Windsor, Ontario, Canada. Glass cutting machine. 2,667,691, Feb. 2.

Marx, Adolph, Brooklyn, N. Y. Safety accessory for gas stoves. 2,667,864, Feb. 2.

Marzolf, Robert G., Snyder, N. Y. Lubricant container for bearings. 2,668,086, Feb. 2.

Master Vibrator Company, assignee: *See*—
McCrery, Harold E.

Mathews, Martin B.: *See*—
Watkins, John E., and Mathews.

Mathieson Chemical Corporation, assignee: *See*—
Orth, George O., Jr.

Matthysse, Irving F., Bronx, N. Y., assignor to Burndy Engineering Company, Inc. Connector with rotatably mounted conductor securing means. 2,668,211, Feb. 2.

May, Edwin A., Ridgewood, assignor to Becton Dickinson and Company, Rutherford, N. J Injection apparatus. 2,667,870, Feb. 2.

May, Otto, S. Gmund, and H. Hecht, Goppingen, Germany. Long-stroke press drive means. 2,667,788, Feb. 2.

Mazeko Enterprises, Inc., assignee: *See*—
Mann, John J., and McDonnell.

McAlear Manufacturing Company, assignee: *See*—
Henderson, James P., and Gall.

McArn, Theodore A., assignor to Downingtown Manufacturing Company, Downingtown, Pa. Automatic cut-off for paperboard machines. 2,667,821, Feb. 2.

McAuley, J. E., Mfg. Co., assignee: *See*—
Hahn, Charles A.

McBee Company, The, assignee: *See*—
Dutro, Orville V.

McCall, Floyd, and L., Romoland, Calif. Side delivery rake. 2,667,730, Feb. 2.

McCall, Lloyd: *See*—
McCall, Floyd and L.

McCallum, Robert A., Clarendon Hills, assignor to Goodman Manufacturing Company, Chicago, Ill. Sawing machine with sequentially operated holder-guard and saw. 2,667,903, Feb. 2.

McClellan, William R., Kennett Square, Pa., to E. I. du Pont de Nemours and Company, Wilmington, Del. Urea-formaldehyde primary alkylene diamine condensation products. 2,668,155, Feb. 2.

McCormick, Charles E., Dearborn, Mich. Adjustable seat supporting means. 2,667,912, Feb. 2.

McCormick, Francis H., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,668,221, Feb. 2.

McCormick, Francis H., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,668,222, Feb. 2.

McCormick, Francis H., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,668,223, Feb. 2.

McCoy, Claudius T., Narberth, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Electrical pulse-width discriminator. 2,668,236, Feb. 2.

McCrery, Harold E., assignor, by mesne assignments, to Master Vibrator Company, Dayton, Ohio. Blade attaching means. 2,667,824, Feb. 2.

McDonnell, James A.: *See*—
Mann, John J., and McDonnell.

McGill, Henry, Pearcedale, Victoria, assignor to J. A. Cavanagh, East Praham, Victoria, and H. W. T. Ireland, St. Kilda, Victoria, Australia. Variable speed power transmission mechanism. 2,667,794, Feb. 2.

McGrath, Walter O., Newtonville, Mass. Measuring rule. 2,667,697, Feb. 2.

McGraw Electric Company, assignee: *See*—
Duerkob, Manfred F.
Petersen, Clifford W.
Stoelting, Herman O., and Petersen.
Welsh, William E.
McNamara, Gerald P.: *See*—
Harris, Charles D., Eichhorn, Prosek, and McNamara.
McNutt, Clara E., Toledo, Ohio. Combination baking and serving utensil for pastries. 2,667,829, Feb. 2.
McQuaid, Daniel J., Sr., and F. W. Riehl, Denver, Colo., said Riehl assignor to said D. J. McQuaid. Perspective drawing machine. 2,667,694, Feb. 2.
Mead, William H., assignee: *See*—
Bishop, Lewis H., and Tribbett.
Meader, Campling W., Burntisland, Scotland. Pump. 2,667,841, Feb. 2.
Mechanics National Bank of Worcester, The, executor: *See*—
Persons, Charles A.
Meier, Heinrich, assignor to Zellweger A. G., Apparate- und Maschinenfabriken Uster, Uster, Switzerland. Separator for leased warp threads. 2,667,683, Feb. 2.
Melin, Edward M.: *See*—
Pool, Stuart D., and Melin.
Mendelsohn, Lewis I.: *See*—
Goss, James H., Mendelsohn, and Bakke.
Menegus, Robert L., and S. J. Friedman, Wilmington, Del., and F. A. Gluckert, West Chester, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Directional atomization. 2,668,079, Feb. 2.
Merck & Co., Inc., assignee: *See*—
Briggs, Stanford W., Denkewalter, and Hughey.
Metallgesellschaft Aktiengesellschaft, assignee: *See*—
Meyer, Kurt, and Rausch.
Meyer, Kurt, Frankfurt am Main, and H. Rausch, Frankfurt am Main-Fechenheim, assignors to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany. Burning and sintering material. 2,668,042, Feb. 2.
Meynig, Robert E., La Porte, Tex. High and low pressure cutoff valve. 2,667,890, Feb. 2.
Mietzsch, Fritz: *See*—
Behnisch, Robert, Mietzsch, and Schmidt.
Mijnlieff, Ary J., Zeist, B. A. van Rietschoten, and P. Loos, assignors to N. V. Provinciaal en Gemeentelijk Utrechts Stroomleveringsbedrijf, Utrecht, Netherlands. Heat consumption meter. 2,667,783, Feb. 2.
Miller, Clarence E., Staunton, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn handling device. 2,667,964, Feb. 2.
Miller, William, Instruments, Inc., assignee: *See*—
Miller, William W.
Miller, William T., Ithaca, N. Y. Polyunsaturated fluoroolefins. 2,668,182, Feb. 2.
Miller, William W., Los Angeles, Calif., assignor, by mesne assignments, to William Miller Instruments, Inc. Timing light control for oscillographs and the like. 2,667,812, Feb. 2.
Millington, Agnes G.: *See*—
Knaus, Nicholaus, and Millington.
Mills, Carroll B.: *See*—
Barnett, Clarence F., and Mills.
Miner, Carl S., Jr.: *See*—
Pedlow, George W., Jr., and Miner.
Minneapolis-Honeywell Regulator Company, assignee: *See*—
Huntington, William L.
Smith, James W.
Minnesota Mining & Manufacturing Company, assignee: *See*—
Pedlow, George W., Jr., and Miner.
Taylor, Nelson W., and Clark.
Whitson, Lee S., Tometz, and Ferlaak.
Mitchell, Jack C.: *See*—
Collar, Frank R., and Mitchell.
Mojonnier, Albert B., Leyden Township, Cook County, Ill., assignor to The Mojonnier-Dawson Co. Dispensing mechanism with time controlled flow. 2,667,990, Feb. 2.
Mojonnier-Dawson Co., The, assignee: *See*—
Mojonnier, Albert B.
Molins, Desmond W., F. F. Ruan, and N. W. Jackson, Deptford, London, assignors to Molins Machine Company Limited, London, England. Apparatus for making mouthpiece cigarettes. 2,667,877, Feb. 2.
Molins Machine Company Limited, assignee: *See*—
Jackson, Donald R. P.
Molins, Desmond W., Ruan, and Jackson.
Moloney, Raymond T., assignee: *See*—
Hooker, Donald E., and Nicolaus.
Monnier, Robert P., assignor to Cincinnati Chemical Works Incorporated, Cincinnati, Ohio. Preparation of complex chromium azo compounds. 2,668,167, Feb. 2.
Monroe Auto Equipment Company, assignee: *See*—
Smith, Charles J., and Esdale.
Monsanto Chemical Company, assignee: *See*—
Beaver, David J.
Monteiro, Zenon F., Sao Paulo, Brazil. Liquid dispenser. 2,667,646, Feb. 2.
Montgomery, Orin C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Transmitter for radio seismic systems. 2,668,282, Feb. 2.
Moretti, John, assignee: *See*—
Richardson, John D.
Morse Boulger Destructor Company, assignee: *See*—
Baresch, Charles A.
Morse Chain Company, assignee: *See*—
Bremer, Norman C.
Morse, Rollin D., Lincoln University, Pa., and E. F. von Wettberg, Jr., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Solids-gas contacting. 2,667,706, Feb. 2.
Moseley, Charles W., Charlotte, N. C., assignor to R. H. Bouligny, Inc., Ground rod driving means. 2,667,752, Feb. 2.
Moses, Robert C., Swampscott, Mass., assignor to Sylvania Electric Products Inc. Automatic noise limiter. 2,668,233, Feb. 2.
Moss, Lois E.: *See*—
Finnegan, Lois M.
Moulton, Harold R., assignor to American Optical Company, Southbridge, Mass. Means for attachment of eye muscles to implants. 2,667,645, Feb. 2.
Mullaney, Ralph A., Elmwood Park, Ill., assignor to Zenith Radio Corporation. Change-cycle initiating mechanism for automatic phonographs. 2,668,058, Feb. 2.
Muller, Ernst F., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Variable volume hydraulic motor with pressure responsive volume control. 2,667,862, Feb. 2.
Müller, Heinrich, Nurnberg, Germany. Remotely-controllable toy vehicle. 2,667,721, Feb. 2.
Mullin, John T., Los Angeles, Calif. Frequency compensation method and apparatus. 2,668,283, Feb. 2.
Murdock, Joseph K., Cincinnati, and E. Le Roy, St. Bernard, assignors to The Murdock Mfg. & Supply Company, Cincinnati, Ohio. Sanitary drinking fountain and valve therefor. 2,667,889, Feb. 2.
Murdock Mfg. & Supply Company, The, assignee: *See*—
Murdock, Joseph K., and Le Roy.
Murray, Charles H., Scott City, and D. E. Breithaupt, Modoc, Kans. Cattle and hog insecticide applicator. 2,667,859, Feb. 2.
Muskegon Piston Ring Company, assignee: *See*—
Hamm, Douglas W.
Musser, C Walton, Philadelphia, Pa., and N. K. Turnbull, Pitman, N. J., assignors to the United States of America as represented by the Secretary of the Army. Hermetically sealed explosive cartridge. 2,667,837, Feb. 2.
Muth, Michael J.: *See*—
Emig, Fred J., and Muth.
Myers, Felix E., Haddon Heights, N. J., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Multipole circuit breaker. 2,668,205, Feb. 2.
N. V. Provinciaal en Gemeentelijk Utrechts Stroomleveringsbedrijf, assignee: *See*—
Mijnlieff, Ary J., van Rietschoten, and Loos.
Nagel, Lester L., Summit, N. J., assignor to Research Corporation, New York, N. Y. Switch and system. 2,668,249, Feb. 2.
Naslund, Rubert S., Menomonee Falls, Wis. Television gamma test method and apparatus. 2,668,188, Feb. 2.
National Aluminate Corporation, assignee: *See*—
Luvisi, George W.
National Cylinder Gas Company, assignee: *See*—
Arnold, Melvin R., and Baugh.
National Lead Company, assignee: *See*—
Harrison, George.
Pitrot, Adrian R.
National Machinery Company, The, assignee: *See*—
Friedman, John H.
National Smelting Company Limited, The, assignee: *See*—
Robson, Stanley.
Robson, Stanley, and Derham.
National Starch Products Inc., assignee: *See*—
Caldwell, Carlyle G., and Wurzburg.
Nau-Touron, Albert, assignor to I. Frenkel, Paris, France. Process and means for winding natural and synthetic yarns. 2,667,734, Feb. 2.
Nejedly, Peter M.: *See*—
Rundell, Rupert E., and Nejedly.
Nelson, Joseph F.: *See*—
Banes, Fred W., Fitz Gerald, Nelson, and Gilliland.
Nelson, Roy E.: *See*—
Baker, John H., and Nelson.
Nerness, Harold, Windom, Minn. Tractor attachment for reforming windrows. 2,667,731, Feb. 2.
Nicholas, Erford G., Pasadena, Calif. Focusing guide. 2,667,825, Feb. 2.
Nicolaus, Frank G.: *See*—
Hooker, Donald E., and Nicolaus.
Niles-Bement-Pond Company, assignee: *See*—
Lee, Leighton, II.
Woodward, James S.
Niles, John R., Detroit, Mich. Voltage regulator. 2,668,244, Feb. 2.
Nordby, Roger M., Evanston, Ill., assignor to Zenith Radio Corporation. Tuning system for wave-signal receivers. 2,668,235, Feb. 2.
Norden Laboratories Corporation, The, assignee: *See*—
Bredemeier, Herbert.
Norman, George H. C.: *See*—
Gordon, James R., Norman, Queneau, Sproule, and Young.
North American Aviation, Inc., assignee: *See*—
Martin, Eric L., and Fosness.
Peck, Volney A.

Northquist, Lawrence C.: *See*—
Pfeffer, Woodrow W., and Northquist.
Northrop Aircraft, Inc., assignee: *See*—
Johnson, Orvin S.
Obitz, Samuel A., assignor to Pittsburgh Waterproof Company, Pittsburgh, Pa. Pad for ironer rolls. 2,667,685, Feb. 2.
Office National d'Etudes et de Recherches Aeronautiques, assignee: *See*—
Perilhou, Pierre A.
Oil Equipment Laboratories, Incorporated, assignee: *See*—
Ayres, John E.
Oishei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Windshield wiper. 2,667,656, Feb. 2.
Okrent, Jasper J., Flushing, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Signal magnitude control system. 2,668,237, Feb. 2.
Oldham and Son Limited, assignee: *See*—
Akroyd, Harold.
O'Neal, Grady M., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Producing cellular materials and compositions therefor. 2,668,152, Feb. 2.
Opocensky, Willard J., assignor to Librascope, Incorporated, Glendale, Calif. Two key cylinder lock. 2,667,785, Feb. 2.
Ordnance Gauge Company, assignee: *See*—
Sirmay, Julius.
Orelind, John R.: *See*—
Johnson, Arnold E. W., and Orelind.
Orth, George O., Jr., Seattle, Wash., assignor to Mathieson Chemical Corporation. Protein adhesives from animal glue, a hydrazide and formaldehyde. 2,668,154, Feb. 2.
Osborn, Lee I., Muscatine, Iowa. Repair chamber for submerged pipe lines. 2,667,751, Feb. 2.
Osten, Fred C., Sr., Detroit, Mich. Window construction. 2,667,668, Feb. 2.
Osterberg, Harold, Springdale, Conn., assignor to American Optical Company, Southbridge, Mass. Variable light-modifying device. 2,667,811, Feb. 2.
Ostling, Roy V.: *See*—
Davies, Charles H., and Ostling.
Ostrander, William M.: *See*—
Keiper, Phillip C., and Ostrander.
Ouweltjes, Jan L., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric lamp. 2,668,252, Feb. 2.
Overstall, George: *See*—
Tusting, John C., and Overstall.
Oxford Corporation, assignee: *See*—
Mallabar, Herbert J.
Oxnard, Benjamin A., and C. H. Criswell, Denver, and A. J. Thomas, Johnstown, Colo., assignors to The Great Western Sugar Company. Producing brown sugar. 2,668,128, Feb. 2.
Paist, Walter D.: *See*—
Horback, William B., Berardinelli, and Paist.
Palmqvist, Fredrik T. E., assignor to Aktiebolaget Separator-Nobel, Stockholm, Sweden. Dewaxing petroleum oils and the like. 2,668,141, Feb. 2.
Pardee, Richard H., and R. J. Strawn, Jr., La Junta, Colo. Liquid fuel burner. 2,667,919, Feb. 2.
Parks, Walter J., Aurora, Ohio. Making bearing mountings. 2,667,689, Feb. 2.
Pasteur, Louis, Versailles, France. Atomizing apparatus, particularly for arboriculture and agriculture. 2,668,082, Feb. 2.
Peck, Volney A., Los Angeles, Calif., assignor to North American Aviation, Inc. Aircraft tab control mechanism. 2,668,028, Feb. 2.
Pedlow, George W., Jr., Easton, Pa., and C. S. Miner, Jr., Winnetka, Ill., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Hydrophobic inorganic particulate materials. 2,668,151, Feb. 2.
Peebles, David D., Hillsborough, and C. P. Turner, Petaluma, assignors to Western Condensing Company, San Francisco, Calif. Centrifugal atomizer. 2,668,080, Feb. 2.
Pell, Eric: *See*—
Hunter, Richard B., Pell, and Schmitz.
Perelson, Harold N., Los Angeles, Calif. Self-sealing dispensing device. 2,667,986, Feb. 2.
Perilhou, Pierre A., Clamart, assignor to Office National d'Etudes et de Recherches Aeronautiques, Paris, France. Distance measuring device. 2,668,288, Feb. 2.
Perkin-Elmer Corporation, The, assignee: *See*—
Williams, Van Z.
Permafuse Corp., The, assignee: *See*—
Tilden, Sydney G.
Perron, Robert R.: *See*—
Brophy, John J., and Perron.
Persons, Charles A., deceased: H. M. Persons and The Mechanisc National Bank of Worcester, executors of said Charles A. Persons, assignors to Persons-Majestic Mfg. Co., Worcester, Mass. Padded saddle seat construction. 2,667,911, Feb. 2.
Persons, Harriet M., executrix: *See*—
Persons, Charles A.
Persons-Majestic Mfg. Co., assignee: *See*—
Persons, Charles A.
Peters, Herbert W., Milwaukee, Wis., assignor to Cory Corporation, Chicago, Ill. Beverage brewing apparatus. 2,667,827, Feb. 2.
Petersen, Clifford W.: *See*—
Stoelting, Herman O., and Petersen.
Petersen, Clifford W., Wauwatosa, assignor to McGraw Electric Company, Milwaukee, Wis. Isolating gap electrode. 2,668,210, Feb. 2.
Petersen, Soren C., Chicago, Ill. Face cream applying and face massaging implement. 2,667,867, Feb. 2.
Peterson, Christen J., deceased; G. Goessele, T. M. Dunlap, and City National Bank & Trust Company, executors, assignors to Wear Proof Mat Company, Chicago, Ill. Mat. 2,667,654, Feb. 2.
Peterson, Elmer V., assignee: *See*—
Hammond, Eleanor M., and B. F.
Pfeffer, Woodrow W., and L. C. Northquist, Spokane, Wash. Pillow. 2,667,915, Feb. 2.
Pharis, William W.: *See*—
Kessler, Frank, and Pharis.
Philco Corporation, assignee: *See*—
McCoy, Claudius T.
Shoemaker, Malcolm G.
Phillips Petroleum Company, assignee: *See*—
Goodhue, Lyle D.
Montgomery, Orin C.
Reynolds, William B., Wicklatz, and Kennedy.
Photostat Corporation, assignee: *See*—
Rittinger, Adam N.
Plen, Hsia-Si, Drexel Hill, assignor to Wilkening Manufacturing Company, Philadelphia, Pa. Piston ring and expander therefor. 2,668,088, Feb. 2.
Pikl, Josef, Glassboro, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulose trisalkylcarbamates and making the same. 2,668,168, Feb. 2.
Pistoles, Lambert R., Wilmington, Del. Gauge. 2,667,700, Feb. 2.
Pitney-Bowes, Inc., assignee: *See*—
Bach, John W.
Pitrot, Adrian R., Uniondale, assignor to National Lead Company, New York, N. Y. Composite lead chromate-lead silicate pigment. 2,668,122, Feb. 2.
Pittsburgh Waterproof Company, assignee: *See*—
Obitz, Samuel A.
Plax Corporation, assignee: *See*—
Horton, Paul V.
Pompeo, Domenick J.: *See*—
Hallikainen, Kauko E., and Pompeo.
Pool, Stuart D., Moline, and E. M. Melin, Rock Island, Ill., assignors to International Harvester Company. Row defining apparatus for cane harvesters. 2,667,727, Feb. 2.
Pool, Stuart D., and E. K. Karlsson, Moline, Ill., assignors to International Harvester Company. Magnetically biased check valve. 2,667,895, Feb. 2.
Posting Equipment Corporation, assignee: *See*—
Lear, Joseph D.
Potter, Harley O., Peoria, and L. R. Carrigan, assignors to General Metals Company, Chillicothe, Ill. Machine for forming bottle top covers. 2,667,823, Feb. 2.
Prete, Mike, Wichita, Kans. Crutch tip. 2,667,885, Feb. 2.
Price, Lawrence, Carlton, Pa. Adjustable tight line holder. 2,667,695, Feb. 2.
Price, Nathan C., Los Angeles, assignor to Lockhed Aircraft Corporation, Burbank, Calif. Fuel injection and burner system for reactive propulsion power plants. 2,667,741, Feb. 2.
Price, Nathan C., St. Helena, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Orientable jet-propulsion system for aircraft. 2,668,026, Feb. 2.
Pridy, Whetstine B., Long Beach, Calif. Two-way pipe roller rest. 2,667,978, Feb. 2.
Proctor Electric Company, assignee: *See*—
Hilldale, John H.
Proehl, Henry F., Alexandria, Minn. Boat carrier. 2,667,984, Feb. 2.
Prosek, John R.: *See*—
Harris, Charles D., Eichhorn, Prosek, and McNamara.
Provenzano, Mike A., assignor to The Brearley Company, Rockford, Ill. Bathroom scale. 2,668,045, Feb. 2.
Purkey, Edward L., Oklahoma City, Okla. Control for vehicles. 2,667,939, Feb. 2.
Queneau, Paul E.: *See*—
Gordon, James R., Norman, Queneau, Sproule, and Young.
Radio Corporation of America, assignee: *See*—
Reddeck, Joseph G.
Szikiai, George C.
Tunick, Harry.
Ramming, John, Machine Company, assignee: *See*—
Barnes, Tracy W.
Ramos, Lawrence F., assignor to American Steel Foundries, Chicago, Ill. Snubbed truck. 2,667,844, Feb. 2.
Rappaport, Lee, New York, N. Y. Flexible wrist watch band and the like. 2,667,994, Feb. 2.
Rausch, Hans: *See*—
Meyer, Kurt, and Rausch.
Raytheon Manufacturing Company, assignee: *See*—
Stutsman, Paul W.
Read Standard Corporation, assignee: *See*—
Williams, Edward J.
Reddeck, Joseph G., New Brunswick, N. J., assignor to Radio Corporation of America. Color television. 2,668,189, Feb. 2.
Redington, F. B., Co., assignee: *See*—
Malhiot, Clarence J.

Reed Roller Bit Company, assignee: *See*—
Stokes, John C.

Reed Standard Corporation, assignee: *See*—
Temple, Hiram E.

Reese, Terrell J., Elkhart, Ind., and N. B. Wood, Lakeland, Fla., assignors to Food Machinery and Chemical Corporation. Feeder for whole fruit juicers. 2,667,961, Feb. 2.

Reeves, Donald H.: *See*—
Tenney, Raymond M., Hornaday, and Reeves.

Reeves, Wilson A., and J. D. Guthrie, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture. Flameproof fibrous aminoethylated cellulae derivatives. 2,668,096, Feb. 2.

Reflectone Corporation, The, assignee: *See*—
Bennett, Maurice D.

Reggiani, George J., Brooklyn, N. Y. Collapsible and portable crib attachment. 2,667,647, Feb. 2.

Reppe, Walter, Ludwigshafen (Rhine), N. v Kutepow, Karlsruhe-Rueppurr, and O. Leichtle, Ludwigshafen (Rhine), assignors to Badische Anilin- & Soda-Fabik Aktiengesellschaft, Ludwigshafen (Rhine), Germany. Production of acrylonitrile. 2,668,175, Feb. 2.

Research Corporation, assignee: *See*—
Nagel, Lester L.
Wintermute, Harry A.

Reynolds, William B., J. E. Wicklatz, and T. J. Kennedy, Bartlesville, Okla., assignors to Phillips Petroleum Company. Alkenyl hydroperoxymethanes as polymerization catalysts. 2,668,163, Feb. 2.

Rhodes, M. H., Incorporated, assignee: *See*—
Doyle, Edward J.

Rich, Theodore A., Schenectady, N. Y., assignor to General Electric Company. Radiation monitor. 2,668,245, Feb. 2.

Richardson, Arthur T., Jr.: *See*—
Cottrell, Robert B., and Richardson.

Richardson, John D., Riverside, assignor to J. Morettl, Cranston, R. I. Gem setting apparatus. 2,667,686, Feb. 2.

Riehl, Frederick W.: *See*—
McQuaid, Daniel J., Sr., and Riehl.

Ritchie, Mansfield F., assignor to Twin Cities Container Corporation, Benton Harbor, Mich. Packaging for frangible objects. 2,667,968, Feb. 2.

Rittinger, Adam N., Rochester, N. Y., assignor to Photostat Corporation. Print stripping mechanism. 2,667,963, Feb. 2.

Rizzardi, Marcello, Trieste, Italy. Coating for the preservation of foods. 2,668,121, Feb. 2.

Roberts, Bruce, assignor to The International Electronics Company, Philadelphia, Pa. Equipment for use with multitrack magnetic tape records. 2,668,059, Feb. 2.

Roberts, Willmar K.: *See*—
Chapin, Edward W., and Roberts.

Robson, Stanley, Enfield, assignor to The National Smelting Company Limited, London, England. Condensation of zinc from its vapor in gaseous mixtures. 2,668,046, Feb. 2.

Robson, Stanley, Enfield, and L. J. Derham, Severn Beach, assignors to The National Smelting Company Limited, London, England. Production of zinc. 2,668,047, Feb. 2.

Rockwell, Edward A., Los Angeles, Calif. Fluid pressure valve. 2,667,861, Feb. 2.

Rockwell Manufacturing Company, assignee: *See*—
Batchelder, George E.

Rodman, Francis C., Garden City, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Mouthpiece for cap magazines. 2,668,000, Feb. 2.

Rogers, Charles F., assignor to S. C. Johnson & Son, Inc., Racine, Wis. Conveying and positioning mechanism. 2,667,959, Feb. 2.

Rohrlick, Joan E.: *See*—
Rohrlick, Michael K. and J. E.

Rohrlick, Michael K. and J. E., Montreal, Quebec, Canada. Apparatus for feeding and stitching slide fastener stringers to garment fly pieces. 2,667,849, Feb. 2.

Ronay, Geza S., Oakland, assignor to Shell Development Company, Emeryville, Calif. Lubricating compositions. 2,668,145, Feb. 2.

Ronceray, Robert A. M., Thiais, France. Foundry cupola. 2,668,048, Feb. 2.

Roney, Charles, Hammond, Ind., assignor to Ansul Chemical Company, Marinette, Wis. Stabilization of sulfone resins. 2,668,160, Feb. 2.

Rowley, Arthur C., Drexel Hill, assignor to Globe Automatic Sprinkler Company of Pennsylvania, Philadelphia, Pa. Dry pipe valve. 2,667,934, Feb. 2.

Ruau, Félix F.: *See*—
Mollan, Desmond W., Ruau, and Jackson.

Rumpel, Harvey H., Whitefish Bay, assignor to Smith Engineering Works, Milwaukee, Wis. Adjustment structure for concaves of gyratory crushers. 2,668,015, Feb. 2.

Rundblad, George J.: *See*—
Buenger, Edward F., Uhrmacher, Cairelli, and Rundblad.

Rundell, Rupert E., Rockville Centre, and P. M. Nejedly, Brooklyn, N. Y., assignors to American Machine and Foundry Company. Bowling pin conveying and assembling mechanism for bowling pin setting machines. 2,668,056, Feb. 2.

Rzepela, Stanley J., Philadelphia, Pa. Machine vise having base-clamping screw and nut assembly for sectional movable jaws. 2,667,799, Feb. 2.

Sabee, Reinhardt N.: *See*—
Graef, John M., Harwood, and Sabee.

Salstrom Carving Machine Company, assignee: *See*—
Salstrom, David B. and D. N.

Salstrom, David B., Chicago, and D. N. Salstrom, Wheaton, assignors to Salstrom Carving Machine Company, Chicago, Ill. Pattern controlled shaping machine. 2,667,901, Feb. 2.

Salstrom, David N.: *See*—
Salstrom, David B. and D. N.

Sampson, Julian E., St. Louis, Mo. Safety pin. 2,667,676, Feb. 2.

Sandberg, Rolf A. F., Queens Village, and F. G. Wikstrom, Valley Stream, assignors to Western Electric Company, Incorporated, New York, N. Y. Article feeding apparatus. 2,668,219, Feb. 2.

Sato, Takeo, Honolulu, Hawaii. Concrete deck and wall form construction. 2,667,680, Feb. 2.

Satterthwaite, Arlo D.: *See*—
Clayton, Harold H., and Satterthwaite.

Saurenman, Dean F., and P. E. Hilton, Houston, Tex., assignors to Baker Oil Tools, Inc., Vernon, Calif. Casing scraper. 2,667,930, Feb. 2.

Saxton, Millard F., assignor to The Engineered Products Co., Flint, Mich. Atomizing device. 2,668,084, Feb. 2.

Scarlett, George B., assignee: *See*—
Eichmann, Theophil.

Scarlett, William J., administrator: *See*—
Eichmann, Theophil.

Schenley Industries, Inc., assignee: *See*—
Behnisch, Robert, Mietzsch, and Schmidt.

Schick, Eugene G., Fort Worth, assignor to Tok, Inc., Amarillo, Tex. Cam action magazine type tack hammer. 2,667,639, Feb. 2.

Schleicher, Harold E., West Hartford, assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Resettable switch. 2,668,212, Feb. 2.

Schmidt, Edwin L., Croton-on-Hudson, assignor to The Teleregister Corporation, New York, N. Y. Ticket printing and accounting system. 2,668,009, Feb. 2.

Schmidt, Hans: *See*—
Behnisch, Robert, Mietzsch, and Schmidt.

Schmitt, Nickolas, Wolverine, Mich. Lock mechanism. 2,667,778, Feb. 2.

Schmitt, Nickolas, Wolverine, Mich. Lock mechanism. 2,668,070, Feb. 2.

Schmitz, Norbert L.: *See*—
Hunter, Richard B., Pell, and Schmitz.

Schneider, Hans, Zurich, assignor to Ateliers de Construction Oerlikon, Zurich-Oerlikon, Switzerland. Voltage transformer for high-tension mains. 2,668,274, Feb. 2

Schooley, Allen H., Washington, D. C. Waveguide switch. 2,668,276, Feb. 2.

Schulz, Paul L., assignee: *See*—
Langlois, Roland E., and Blumenbaum.

Schwalenstocker, Henry J., Rochester, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Photographic antibronzing agents. 2,668,113, Feb. 2.

Scott, Walter A., assignor to The De Laval Separator Company, Poughkeepsie, N. Y. Airtight milking machine. 2,667,855, Feb. 2.

Scott & Williams, Incorporated, assignee: *See*—
Allen, John M.
Ide, Whitman D.

Seaholm, Rudolph V., Chicago, Ill. Self-cleaning strainer. 2,667,975, Feb. 2.

Searle, Raymond W., Weston, assignor to Technology Instrument Corporation, Acton, Mass. Translatory potentiometer. 2,668,218, Feb. 2.

Seelig, Albert F., Jr., Granite City, assignor to American Steel Foundries, Chicago, Ill. Axle assembly. 2,668,051, Feb. 2.

Segal, Samuel, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill. Removable staple supporting slide for stapling machines. 2,667,638, Feb. 2.

Seidenfaden, Wilhelm, and H. Albert, Offenbach am Main, Germany. Diazonium compounds. 2,668,166, Feb. 2.

Selas Corporation of America, assignee: *See*—
Hess, Frederic O.

Sellstrom, Lawrence T., assignor to Knudsen Creamery Co., of California, Los Angeles, Calif. Highway truck with self-contained refrigeration systems. 2,667,761, Feb. 2.

Settlemire, Warren K., Port Saint Joe, Fla. Coupling attachment for tractor drawn plow. 2,667,710, Feb. 2.

Sevens, Gerard M.: *See*—
De Cat, Arthur H., Sevens, and Van Dormael.

Severseu, Harry N., assignee: *See*—
Jaros, Joseph F.

Shaffer, Harry S., assignee: *See*—
Smyth, Leo A.

Shallenberg, Walter A., assignor to The Deming Company, Salem, Ohio. Pump. 2,667,842, Feb. 2.

Sharp, Albert: *See*—
Sharp, Lewis and A.

Sharp, Lewis and A., Huntington Park, Calif. Wrist exerciser. 2,668,055, Feb. 2.

Shea, John E., Fairhaven, Va. Apparatus for measuring volumes of solid materials. 2,667,782, Feb. 2.

Shell Development Company, assignee: *See*—
Arabian, Karekin G.
Hallikainen, Kauko E., and Pompeo.
Ronay, Geza S.

Sherwin-Williams Company, The, assignee: *See*—
O'Neal, Grady M.

Shields, John T., Bedford, Ind. Double end rod forming device. 2,667,796, Feb. 2.

Shoemaker, Malcolm G., Doylestown, assignor to Philco Corporation, Philadelphia, Pa. Plural temperature refrigeration system. 2,667,757, Feb. 2.

Short, Brooks H., Anderson, and J. W. Dyer, Pendleton, Ind., assignors to General Motors Corporation, Detroit, Mich. Engine starter control system. 2,668,247, Feb. 2.

Shupe, Leslie A., Pittsburgh, Pa., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Clamping assembly having self-held pressure plates. 2,667,949, Feb. 2.

Shure Brothers, Incorporated, assignee: *See*—
Bauer, Benjamin B.

Siemens Societa per Azioni, assignee: *See*—
Szaniszló, Istvân.

Silk, Phillip B., London, England, assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Continuous slag removal apparatus for pressure-fired combustion apparatus. 2,667,848, Feb. 2.

Simpson, Clarence E., Wilbraham, Mass., assignor to the United States of America as represented by the Secretary of War. Operating slide and bolt for firearms. 2,667,816, Feb. 2.

Singer Manufacturing Company, The, assignee: *See*—
Knaus, Nicholaus, and Millington.

Sirmay, Julius, assignor to Ordnance Gauge Company, Philadelphia, Pa. Transfer needle for knitting machines. 2,667,770, Feb. 2.

Sivacek, Emil E., assignor to King-Seeley Corporation, Ann Arbor, Mich. Windshield wiper. 2,667,657, Feb. 2.

Sixt, Karl: *See*—
Spencer, Arthur M., Jacobson, and Sixt.

Skinner, Herbert W. B., Harwell, England. Beam focusing lens. 2,668,241, Feb. 2.

Skinner, Herbert W. B., Harwell, England. Calutron electric lens. 2,668,242, Feb. 2.

Skyway Precision Tool Company, assignee: *See*—
Garwood, Robert E.

Smith, Arthur E., Los Angeles, Calif. Syringe unit. 2,667,872, Feb. 2.

Smith, Charles J., and W. Esdaie, assignors to Monroe Auto Equipment Company, Monroe, Mich. Control valve for fluid operated lifts. 2,667,745, Feb. 2.

Smith Engineering Works, assignee: *See*—
Rumpel, Harvey H.

Smith, James W., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Gas fueled pilot burner and ion sensing flame probe. 2,667,920, Feb. 2.

Smith, Lawrence A., Florissont, and H. F. Gamble, Ferguson, Mo., assignors to Curtiss-Wright Corporation. Aircraft landing gear lock. 2,668,030, Feb. 2.

Smith, Samuel H., Cleveland, Ohio, assignor, by mesne assignments, to The Trescott Company, Fairport, N. Y. Incubating apparatus. 2,667,857, Feb. 2.

Smyth, Leo A., Wyoming, assignor of fifty per cent to H. S. Shaffer, Glendale, Ohio. Prefabricated subdividable surgical splint. 2,667,868, Feb. 2.

Snoddy, Max E., Dallas, Tex. Underground sprinkler system. 2,668,078, Feb. 2.

Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., assignee: *See*—
Lucien, René.

Societe la Cellophane, assignee: *See*—
Brandenberger, Jacques E.

Solari, Remigio, assignor to Solari Remigio & C. Fabbrica Orologerie Industriali, Udine, Italy. Electromechanic wall calendar clock. 2,667,735, Feb. 2.

Solari Remigio & C. Fabbrica Orologerie Industriali, assignee: *See*—
Solari, Remigio.

Sonius, Cornelis P., assignor to Vennootschap onder firma Oscar Kelp, Groningen, Netherlands. Voltage reducing device for welding transformers. 2,668,273, Feb. 2.

Sonoco Products Company, assignee: *See*—
Dunlan, Charles K.

Soussloff, Dimitri G., Warwick Neck, Warwick, and H. H. Wormser, Providence, assignors to Universal Winding Company, Cranston, R. I. Spindle mounting. 2,668,087, Feb. 2.

Sowa, Frank J., Cranford, N. J. Heterocyclic mercury amine compounds. 2,668,170, Feb. 2.

Spaulding, Carl P., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Capacitor pressure gauge. 2,667,786, Feb. 2.

Specialties Development Corporation, assignee: *See*—
Mapes, Daniel.

Spencer Arthur M., Santa Fe, N. Mex., A. Jacobson, Cleveland, and K. Sixt, East Cleveland, Ohio; said Sixt assignor to said Spencer and said Jacobson. Fiber liberation in cotton stalks and the pulp. 2,668,110, Feb. 2.

Sperry Corporation, The, assignee: *See*—
Cohn, Seymour B.
Dawson, Edward.

Sperry Gyroscope Company, Limited, The, assignee: *See*—
Glenny, Arthur P., and Waloff.

Sperry Products, Inc., assignee: *See*—
Van Valkenburg, Howard E.

Spradling, Joseph W., and P. L. Engler, Madison, Wis., assignors to Air Reduction Company, Incorporated, New York, N. Y. Switch mechanism for pressure-type electrically heated sterilizer. 2,668,224, Feb. 2.

Spross, Hubert M., assignor to De Laval Separator Company, Poughkeepsie, N. Y. Centrifugal separator for cold milk products and the like. 2,668,008, Feb. 2.

Sproule, William K.: *See*—
Gordon, James R., Norman, Queneau, Sproule, and Young.

Spurr, Edward, Orange Grove, Johannesburg, Transvaal, Union of South Africa. Electric heating appliance. 2,668,220, Feb. 2.

Stack, Spencer T., Merrick, N. Y. Fire extinguisher system. 2,667,933, Feb. 2.

Stadelhofer, Fred F., assignor to Berkeley Pump Company, Berkeley, Calif. Coupling means for tubular casing. 2,668,066, Feb. 2.

Standard Oil Company, assignee: *See*—
Alm, Robert M.

Standard Oil Company, assignee: *See*—
Cafcas, Thomas and Lindert.
Strecker, Harold A., and Stine.

Standard Oil Development Company, assignee: *See*—
Banes, Fred W., Fitz Gerald, Nelson, and Gilliland.

Stephens, Charles D., San Antonio, Tex. Fishing rod and reel clamp. 2,667,713, Feb 2.

Steuerman, Sergey, New York, N. Y. Vibrator device. 2,667,749, Feb. 2.

Stewart, Arthur L., Brighton, and L. O. Carlsen, assignors to Gleason Works, Rochester, N. Y. Machine and method for producing gears. 2,667,818, Feb. 2.

Stewart-Warner Corporation, assignee: *See*—
Winkler, Herman E., and M. F.

Stiller, Benjamin, Akron, Ohio. Self-closing container. 2,667,906, Feb. 2.

Stine, Harrison M.: *See*—
Strecker, Harold A., and Stine.

Stobb, Anton R., Union Township, Hunterdon County, N. J., assignor to Western Printing and Lithographing Company, Racine, Wis. Automatic book casemaking machine. 2,667,909, Feb. 2.

Stoelting, Herman O., Milwaukee, and C. W. Petersen, Wauwatosa, assignors to McGraw Electric Company, Milwaukee, Wis. Expulsion type arrester. 2,668,255, Feb. 2.

Stokes, John C., assignor to Reed Roller Bit Company, Houston, Tex. Core barrel assembly. 2,668,037, Feb. 2.

Stone, Richard E., Cocoa, Fla. Trocar. 2,667,682, Feb. 2.

Stonestreet, Purl J., Cuyahoga Falls, Ohio. Animal trap. 2,667,715, Feb. 2.

Stora Kopparbergs Bergslags Aktiebolag, assignee: *See*—
Cederquist, Karl Nicolaus.

Strawn, Robert J., Jr.: *See*—
Pardee, Richard H., and Strawn.

Strecker, Harold A., Bedford, and H. M. Stine, Lyndhurst, assignors to The Standard Oil Company, Cleveland, Ohio. Reforming process and catalysts. 2,668,142, Feb. 2.

Streich, Paul B., Sr., Maywood, Ill., assignor to Charles Bruning Company, Inc., New York, N. Y. Dating machine. 2,667,831, Feb. 2.

Stromberg-Carlson Company, assignee: *See*—
Gleason, Howard S.
Kessler, Frank and Pharis.

Strong, Vernon L., Wolf Creek, Oreg. Compensator for rifles 2,667,815, Feb. 2.

Sturm, Robert H., assignor to Cosmocord Plastics Limited, Enfield, England Coating compositions for metals containing a phenol formaldehyde resin and a phosphate. 2,668,158, Feb. 2

Stutsman, Paul W., Needham, assignor to Raytheon Manufacturing Company, Newton, Mass. Corona discharge voltage regulator. 2,668,254, Feb. 2.

Stutsman, Paul W., Needham assignor to Raytheon Manufacturing Company, Newton, Mass. Electrical circuit. 2,668,259, Feb. 2.

Styles, Earl E., Gaylord, Mich. Slingshot. 2,667,863, Feb. 2.

Sunbeam Corporation, assignee: *See*—
Jenson, Ivar, and Cerveny.
Koci, Ludvik J.

Sun Chemical Corporation, assignee: *See*—
Armatys, Edward F.

Sun Oil Company, assignee: *See*—
Lindeman, Myrl A.

Sundstrand, Oscar J., and O. W. Swanson, West Hartford, Conn., assignors to Underwood Corporation, New York, N. Y. Business machine with optionally movable head or platen. 2,667,956, Feb. 2.

Swanson, Oscar W.: *See*—
Sundstrand Oscar J., and Swanson.

Swart, Gilbert H., Akron, and T. A. Te Grotenhuis, Olmstead Falls, assignors to The General Tire and Rubber Company Akron Ohio Resinous copolymers of 3 4 and 3,5 dichloro-alpha-methylstyrene. 2,668,164, Feb. 2.

Swift & Company, assignee: *See*—
Hensgen, Bernard T.
Lentz Irvin R., and Van Dolah.
Long Harry J.
Walker, John J., and Farbak.

Sylvania Electric Products Inc., assignee: *See*—
Moseg, Robert C.

Szaniszló, István, Caronno Pertusella (Varese), assignor to Siemens Societa per Azioni, Milan, Italy. Arrangement of the oil pump in motor-compressor groups of refrigerating apparatus. 2,668,007, Feb. 2.

Szklai, George C., Princeton, N. J., assignor to Radio Corporation of America. Television image pickup system. 2,668,190, Feb. 2.

Tanner, Fritz, St. Gallen, assignor to Gebrüder Bühler, Uzwil, Switzerland. Material progressor for machines for cleaning or scouring grain, bran, or like materials. 2,667,905, Feb. 2.

Taylor, Clement F., Lynn, W. E. Briggs, Lynnfield Center, and J. F. Weary, Lynnfield, Mass., assignors to General Electric Company. Multiple photocell structure. 2,668,184, Feb. 2.

Taylor, Nelson W., White Bear Lake, and B. L. Clark, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Heat-sensitive copying-paper. 2,668,126, Feb. 2.

Taylor, Paul H., Grand Island, assignor to Wales-Strippit Corporation, North Tonawanda, N. Y. Spring utilizing a compressible solid. 2,668,049, Feb. 2.

Taylor, Warren G., assignor to American Television, Inc., Chicago, Ill. Getter for electron discharge devices. 2,668,253, Feb. 2.

Technology Instrument Corporation, assignee: *See*—
Searle, Raymond W.

Te Grotenhuis, Theodore A.: *See*
Swart, Gilbert H., and Te Grotenhuis.

Teichmann, Lina, assignee, *See*—
Engel, Willy.

Teleregister Corporation, The, assignee: *See*—
Schmidt, Edwin L.

Temple, Hiram E., San Gabriel, Calif., assignor to Read Standard Corporation. Apparatus for removing covers from baking pans. 2,668,002, Feb. 2.

Tenney, Raymond M., Wilmette, Ill., J. R. Hornaday, and D. H. Reeves, North Muskegon, Mich., assignors to Borg-Warner Corporation, Chicago, Ill. Egg storage compartment for refrigerators. 2,667,758, Feb. 2.

Thomas, Arnold J.: *See*—
Oxnard, Benjamin A., Criswell, and Thomas.

Thompson, Benjamin L., Springfield, Colo. Vehicle tow line. 2,668,063, Feb. 2.

Thomson, B. C., Co., Inc., assignee: *See*—
Thomsen, Byron C.

Thomson, Byron C., Thibodaux, La., assignor to B. C. Thomson Co., Inc. Loading and cleaning attachment for cane harvesters. 2,667,732, Feb. 2.

Thurber, William S.: *See*—
Corbett, Gerald M., Wiggins and Thurber.

Tidd, Edwin B., Mount Prospect, assignor to Bell & Gossett Company, Morton Grove, Ill. Control means for heating systems. 2,668,216, Feb. 2.

Tide Water Associated Oil Company, assignee: *See*—
Zellner, Carl N., and Lister.

Tilden, Sydney G., Stewart Manor, assignor to The Permafuse Corp., Garden City, N. Y. Gauge for brake lining cutters. 2,667,923, Feb. 2.

Tilden, Sydney G., Stewart Manor, N. Y., assignor to The Permafuse Corp. Brake shoe assembly. 2,667,948, Feb. 2.

Tok, Inc., assignee: *See*—
Schick, Eugene G.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland Mich. Linear dodecamethyltetraphosphoramide. 2,668,179, Feb. 2.

Tometz, Mathias G.: *See*—
Whitson, Lee S., Tometz, and Ferlaak.

Towler, Frank H.: *See*—
Towler, John M., and F. H.

Towler, John M., Harrogate, and F. H. Towler, Otley, assignors to Electraulic Presses Limited, Rodley, England. Pressure relief valve with damping piston. 2,667,894, Feb. 2.

Tregoning, William C., Shaker Heights, Ohio, assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Switch. 2,668,204, Feb. 2.

Trescott Company, The, assignee: *See*—
Smith, Samuel H.

Trevaskis, Henry W., Solihull, assignor to Dunlop Rubber Company Limited, London County, England. Valve. 2,668,035, Feb. 2.

Tribbett, Louis W.: *See*—
Bishop, Lewis H., and Tribbett.

Trico Products Corporation, assignee: *See*—
Oishei, John R.

Trimble, Inc., assignee: *See*—
Donovan, William J.

Troche, Herman J., Fairview Park, and J. H. Holan, Rocky River, assignors to J. H. Holan Corporation, Cleveland, Ohio. Locking-bolt operating structure. 2,668,076, Feb. 2.

Tucker, John T., Oxnard, Calif. Walking vehicle. 2,667,937, Feb. 2.

Tunick, Harry, Rve, N. Y., assignor to Radio Corporation of America. Frequency controlling system. 2,668,232, Feb. 2.

Turnbull, Norman K.: *See*—
Musser, C Walton, and Turnbull.

Turner, Clarence P.: *See*—
Peebles, David D., and Turner.

Turner, Nelson C.: *See*—
Baird, John B., and Turner.

Turner, Nelson C., assignor to Hudson Engineering Corporation, Houston, Tex. Refrigeration method, system, and apparatus. 2,667,764, Feb. 2.

Tusting, John C., Harrold, Bedford, and G. Overstall, Stubbins, Ramsbottom, England. Conveyer and transfer apparatus for the drying of leather. 2,667,981, Feb. 2.

Twin Cities Container Corporation, assignee: *See*—
Ritchie, Mansfield F.

Tygart, James C., Nashville, Ga. Combined dusting and broadcasting machine. 2,668,060, Feb. 2.

Ubezio, Lorenzo: *See*—
Vogelsanger, Ernst, and Ubezio.

Uhrmacher, Ralph R.: *See*—
Buenger, Edward F., Uhrmacher, Cairelli, and Rundblad.

Underwood Corporation, assignee: *See*—
Anderson, Walter A.
Sundstrand, Oscar J., and Swanson.

United Shoe Machinery Corporation, assignee: *See*—
Brophy, John J., and Perron.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Barnett, Clarence F., and Mills.
Groth, Edward J., Jr.

United States Steel Corporation, assignee: *See*—
Lorig, Edwin T.

Universal Winding Co., assignee: *See*—
Marcroft, Jesse.

Universal Winding Company, assignee: *See*—
Soussloff, Dimitri G., and Wormser.

University of California, The Regents of The, assignee: *See*—
Gier, Joseph T., and Dunkle.

Unser, Raymond J., Faribault, Minn. Sirup mixing device. 2,667,989, Feb. 2.

Václavík, Jaroslav, assignor to Bata, narodni podnik, Zlin, Czechoslovakia. Straight knitting machine and operating the same. 2,667,771, Feb. 2.

Vaichulis, John A., Manteno, and A. C. Ivy, Chicago, Ill. Germ-counteracting compositions. 2,668,135, Feb. 2.

Van Ackeren, Paul, and F. Doll, Essen, Germany, assignors, by mesne assignments, to Koppers Company, Inc., Pittsburgh, Pa. Coke oven door. 2,668,075, Feb. 2.

Van den Boomgaard, J.: *See*—
Kröger, Ferdinand A., and Boomgaard.

Van Dolah, Delos B.: *See*—
Lentz, Irvin R., and Van Dolah.

Van Dormael, André E.: *See*—
De Cat, Arthur H., Sevens, and Van Dormael.

Van Iperen, Dirk C., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device for treating workpieces of a curved or angular shape by inductive heating in a magnetic high-frequency field. 2,668,227, Feb. 2.

Van Rietschoten, Barend A.: *See*—
Mijnlieff, Ary J., Van Rietschoten, and Loos.

Van Valkenburg, Howard E., assignor to Sperry Products, Inc., Danbury, Conn. Ultrasonic inspection device. 2,667,780, Feb. 2.

Van Werd, Johannes H. F.: *See*—
Anderson, Charles H. J., and van Werd.

Veale, John H.: *See*—
West, Howard F., and Veale.

Vendorlator Manufacturing Company, assignee: *See*—
Childers, Spencer L., and Warren.

Vennootschap onder firma Oscar Keip, assignee: *See*—
Sonius, Cornelis P.

Vickers, C. V., assignee: *See*—
Vickers, James S.

Vickers, James S., assignor of fifty percent to C. V. Vickers, Alexander City, Ala. Animal trap. 2,667,714, Feb. 2.

V Kutenow, Nikolaus: *See*—
Reppe, Walter, v Kutenow, and Leichtle.

Vintenon, André L., Bois-Colombes, assignor to Electrom, Neuilly-sur-Seine, France. Reversible direct current generator. 2,668,269, Feb. 2.

Vogel, Hilmond O., Chicago, Ill., assignor to International Harvester Company. Cotton picker spindle with barbed inserts. 2,667,726, Feb. 2.

Vogelsanger, Ernst, and L. Ubezio, Zurich, assignors to Ateliers de Construction Oerlikon, Zurich-Oerlikon, Switzerland. Liquid switch. 2,668,217, Feb. 2.

Vogt, Clarence W., Norwalk, Conn. Paired bag filling machine. 2,667,997, Feb. 2.

Voices, Inc., assignee: *See*—
Wilhelm, John H.

Voigt, August C., Evergreen Park, Ill., assignor to International Harvester Company. Cotton-picker spindle assembly with inserts. 2,667,725, Feb. 2.

Von Brand, Ernest K., Dobbs Ferry, N. Y. Analytical apparatus for smokes and gases. 2,667,779, Feb. 2.

Von Wald, Walter A., Jr., Washington, D. C., and T. E. Marshall, III, Arlington, Va., assignors to Dayton Aircraft Products, Inc., Dayton, Ohio. Lead through insulator. 2,668,187, Feb. 2.

Von Wettberg, Eduard F., Jr.: *See*—
Morse, Rollin D., and von Wettberg.

Vordtriede, Oliver A.: *See*—
Cooner, James J., and Vordtriede.

Vordtriede, Oliver A., St. Louis, assignor, by mesne assignments, to A. B. Chance Company, Centralia, Mo. Fuse cutout. 2,668,214, Feb. 2.

Vore, Herbert G., Forest Hills, and A. C. Magalos, Brooklyn, N. Y., assignors to American Seal-Kap Corporation of Delaware, Wilmington, Del. Bottle Capping machine. 2,667,999, Feb. 2.

Wales-Strippit Corporation, assignee: *See*—
Taylor, Paul H.

Walker, John J., and J. E. Farbak, assignors to Swift & Company, Chicago, Ill. Foam depressant. 2,668,138, Feb. 2.

Walker, Robert F., assignee: *See*—
Bowen, Bradford T.

Wallace, Frederick J., assignor to American Cystoscope Makers, Inc., New York, N. Y. Inflatable retention catheter. 2,667,875, Feb. 2.

Waloff, Dimitri: *See*—
Glenny, Arthur P., and Waloff.

Walworth, Clarence B.: *See*—
Winterburn, George A., Walworth, and Lawrence.

War, United States of America as represented by the Secretary of, assignee: *See*—
Fisher, Howard J., MacDougall, and Kistiakowsky.
Simpson, Clarence E.

Ward, Henry N., Klemme, Iowa. Power transmission unit for use with tractor power take-offs. 2,667,787, Feb. 2.

Ward, Peter W., Wembley, and D. F. Bowman, Hendon, London, assignors to The General Electric Company Limited, London, England. Pulse widening apparatus. 2,668,248, Feb. 2

Warren, William B.: *See*—
Childers, Spencer L., and Warren.

Watkins, John E., Maywood, and M. B. Mathews, Chicago, Ill. Apparatus for draining and washing granular material. 2,667,881, Feb. 2.

Watson, Paul R.: *See*—
Wolff, Ivan A., and Watson.

Wear Proof Mat Company, assignee: *See*—
Peterson, Christen J.

Weary, John F.: *See*—
Taylor, Clement F., Briggs, and Weary.

Webster, Lawrence D., Livonia, N. Y. Dump box control lever. 2,667,793, Feb. 2.

Weidner, Max, assignor to S. C. Johnson & Son, Inc., Racine, Wis. Paint strainer. 2,667,976, Feb. 2.

Weldes, Friedrich: *See*—
Blaser, Bruno, and Weldes.

Welsh, William E., Allentown, Pa., assignor to McGraw Electric Company, Milwaukee, Wis. Circuit breaker isolating device. 2,668,201, Feb. 2.

West, Howard F., Joliet, and J. H. Veale, Coal City, assignors to Illinois Clay Products Company, Joliet, Ill. Charging ore and the like and its preparation. 2,668,106, Feb. 2.

Western Condensing Company, assignee: *See*—
Peebles, David D., and Turner.

Western Electric Company, Incorporated, assignee: *See*—
Bregar, Joseph C.
Holt, Leo G.
Sandberg, Rolf A. F., and Wikstrom.

Western Printing and Lithographing Company, assignee: *See*—
Stobb, Anton R.

Western States Machine Company, The, assignee: *See*—
Hertrich, Joseph.

Westinghouse Brake and Signal Company Limited, assignee: *See*—
Jenkins, Alexander.

Westinghouse Electric Corporation, assignee: *See*—
Clark, Earl K.
Keiper, Phillip C., and Ostrander.

Weston Electrical Instrument Corporation, assignee: *See*—
Lamb, Anthony H., and De Mott.
Williams, Alexander T.

White, Milton G., Cambridge, Mass. Moving object selective detection system. 2,668,286, Feb. 2.

Whiteside, Philip, Tyler, Tex. Tree saw attachment for agricultural tractors. 2,667,902, Feb. 2.

Whitson, Lee S., M. G. Tometz, and B. G. Ferlaak, Jr., Minneapolis, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Tape winding. 2,668,023, Feb. 2.

Wicklatz, John E.: *See*—
Reynolds, William B., Wicklatz, and Kennedy.

Wico Electric Company, assignee: *See*—
Harmon, Kenneth A.

Wiggins, Glenn C.: *See*—
Corbett, Gerald M., Wiggins, and Thurber.

Wikstrom, Frank G.: *See*—
Sandberg, Rolf A. F., and Wikstrom.

Wilhelm, John H., Long Island, N. Y., assignor to Voices, Inc., Bayonne, N. J. Compressible sound producing toy and voice therefor. 2,667,718, Feb. 2.

Wilkening Manufacturing Company, assignee: *See*—
Pien, Hsia-Si.

Willett, Leon E.: *See*—
Cook, John T., and Willett.

Williams, Albert J., Jr., assignor to Leeds and Northrup Company, Philadelphia, Pa. Measuring system of the balanceable network type. 2,668,264, Feb. 2.

Williams, Alexander T., Westfield, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Exposure meter. 2,667,809, Feb. 2.

Williams, Edward J., Burbank, Calif., assignor to Read Standard Corporation. Apparatus for spacing articles on conveyers. 2,667,960, Feb. 2.

Williams, Van Z., Old Greenwich, assignor to The Perkin-Elmer Corporation, Glenbrook, Conn. Infrared red gas analyzer. 2,668,243, Feb. 2.

Willson Products, Inc., assignee: *See*—
Hoffmaster, George R.

Wilson, Benjamin S., Akron, Ohio. Storm window. 2,667,670, Feb. 2.

Wilson, Christopher L., assignee: *See*—
Hammon, Henry G.

Wilson, Harry J.: *See*—
Bruno, Victor M., and Wilson.

Wilson, Jones, Company, assignee: *See*—
Buenger, Edward F., Uhrmacher, Cairelli, and Rundblad.

Wilson-Jones Company, assignee: *See*—
Marano, Herbert W.
Segal, Samuel.

Winkler, Herman E. and M. F., Lebanon, Ind., assignors, by mesne assignments, to Stewart-Warner Corporation, Chicago, Ill. Torque transmitting coupling. 2,667,768, Feb. 2.

Winkler, Joseph, New York, N. Y., assignor to By-Products Processing Laboratories, Inc. Tetradecylamine salt of O-phenylphenol. 2,668,136, Feb. 2.

Winkler, Maurice F.: *See*—
Winkler, Herman E. and M. F.

Winter, John R., Jr., assignor to J. R. Winter, Sr., Detroit, Mich. Constructing rocker arms. 2,667,688, Feb. 2.

Winter, John R., Sr., assignee: *See*—
Winter, John R., Jr.

Winterburn, George A., Putnam, C. B. Walworth, Rocky Hill, and L. E. Lawrence, Putnam, Conn., said Walworth and said Lawrence assignors to said Winterburn. Clutch type speed responsive device with magnetic link. 2,668,043, Feb. 2.

Wintermute, Harry A., Plainfield, N. J., assignor to Research Corporation, New York, N. Y. Electrified, centrifugal gas cleaning device. 2,667,942, Feb. 2.

Wishart, James, assignor, by mesne assignments, to Consolidated Vacuum Corporation, Rochester, N. Y. High vacuum diffusion pump. 2,668,005, Feb. 2.

Wolf, Paul A., assignor to The Dow Chemical Company, Midland, Mich. Controlling stem-end decay and mold on citrus fruits. 2,668,115, Feb. 2.

Wolf, Paul A., assignor to The Dow Chemical Company, Midland, Mich. Controlling stem-end decay and mold on citrus fruits. 2,668,116, Feb. 2.

Wolff, Ivan A., and P. R. Watson, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Making nonswelling starch granules with diisocyanates. 2,668,169, Feb. 2.

Wood, Nyal B.: *See*—
Reese, Terrell J., and Wood.

Woodward, James S., assignor to Niles-Bement-Pond Company, West Hartford, Conn. Aircraft propeller and engine control system. 2,667,935, Feb. 2.

Wormser, Hans H.: *See*—
Soussloff, Dimitri G., and Wormser.

Woughter, Holden D., Flint, assignor to General Motors Corporation, Detroit, Mich. Industrial truck. 2,667,985, Feb. 2.

Wright Products, Inc., assignee: *See*—
Falk, Harold W.

Wurzburg, Otto B.: *See*—
Caldwell, Carlyle G., and Wurzburg.

Wyandotte Chemicals Corporation, assignee: *See*—
Leaf, Clyde W., and Liggett.

Young, Charles E.: *See*—
Gordon, James R., Norman, Queneau, Sproule, and Young.

Zellner, Carl N., New Providence, and F. Lister, Elizabeth, assignors to Tide Water Associated Oil Company, Bayonne, N. J. Treatment of acidic mixtures and products resulting therefrom. 2,668,173, Feb. 2.

Zellweger A. G., Apparate- und Maschinenfabriken Uster, assignee: *See*—
Meier, Heinrich.

Zenith Radio Corporation, assignee: *See*—
Druz, Walter S.
Gustafson, Gilbert E., and Criswell.
Mullaney, Ralph A.
Nordby, Roger M.

Ziebell, Theodore R., Milwaukee, Wis., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Means for securing printing plates to their cylinders. 2,667,832, Feb. 2.

Ziebell, Theodore R., Milwaukee, Wis., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Means for securing printing plates to their cylinders under tension. 2,667,833, Feb. 2.

Ziebell, Theodore R., Milwaukee, Wis., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Means for securing printing plates to their cylinders under tension. 2,667,834, Feb. 2.

Ziebell, Theodore R., Milwaukee, Wis., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Means for securing printing plates to their cylinders. 2,667,835, Feb. 2.

Zumkeller, Karl F., Indianapolis, Ind. Tool setting gauge. 2,667,703, Feb. 2.

LIST OF PLANT INVENTIONS

Nectarine tree. F. W. Anderson. 1,248–9, Feb. 2.

LIST OF DESIGN INVENTIONS

Air conditioning unit, Room. R. R. Fink. 171,392, Feb. 2.
Airplane. A. Kartvell. 171,402, Feb. 2.
Book end or similar article. M. F. Shulman. 171,426, Feb. 2.
Bottle stopper and pourer, Combined. E. L. Du Pree and D. Goldstein. 171,388–9, Feb. 2.
Brooch or similar article. R. Semensohn. 171,425, Feb. 2.
Brooch or the like. A. Katz. 171,403, Feb. 2.
Brooch or the like. A. Katz. 171,406–7, Feb. 2.
Brooch or the like. A. Katz. 171,409, Feb. 2.
Cabinet, Freezer. R. R. Fink. 171,393, Feb. 2.
Cabinet, Radio. R. D. Budlong. 171,383, Feb. 2.
Camera, Motion-picture. F. G. Knowles. 171,413, Feb. 2.
Case, Charm. H. Elion. 171,391, Feb. 2.
Clock and barometer, Combined desk. S. J. Kaufman. 171,411, Feb. 2.
Cup or similar article, Banana holding. H. G. Parker. 171,421–2, Feb. 2.
Decanter. H. C. Berkowitz. 171,373–4, Feb. 2.
Dehumidifier. H. E. Thompson. 171,429, Feb. 2.
Dish or similar article, Covered. A. B. Barnhart. 171,372, Feb. 2.
Doll. D. Howes. 171,399, Feb. 2.
Doll or the like. D. M. Tint. 171,430, Feb. 2.
Earring or the like. A. Katz. 171,404–5, Feb. 2.
Earring or the like. A. Katz. 171,408, Feb. 2.
Earring of the like. A. Katz. 171,410, Feb. 2.
Earring or the like. A. Philippe. 171,423, Feb. 2.
Fishing rod holder belt. R. J. Brown. 171,382, Feb. 2.
Game apparatus or similar article. P. F. Kaminsky. 171,401, Feb. 2.
Hammer. R. W. Hughes. 171,400, Feb. 2.
Handbag. J. A. Llorens. 171,416, Feb. 2.
Helmet. S. V. Grancsay and R. W. Ehlers. 171,398, Feb. 2.
Holder and opener for bottles and jars, Combined glass. G. F. Muzzy. 171,419, Feb. 2.
Hose nozzle. L. F. Storie. 171,428, Feb. 2.
Hot dog steamer and bun warmer, Combination. A. D. Altemiller. 171,371, Feb. 2.
Instrument back panel for a stove. W. J. Miller, A. H. Titus, Jr., and L. H. Wilson. 171,418, Feb. 2.
Lamp base, Electric. D. Borowitz. 171,376–81, Feb. 2.
Lawn mower. C. W. Butler. 171,384, Feb. 2.
Model stagecoach body for coaster wagons or similar article. A. A. Ebert. 171,390, Feb. 2.
Motor housing, Gasoline. C. W. Butler. 171,385, Feb. 2.
Opener, Combined bottle and can. I. A. Lipman. 171,415, Feb. 2.
Ornament for spectacle frames. J. E. Kinsey. 171,412, Feb. 2.
Polishing attachment for vacuum cleaners, Floor. E. P. Russell. 171,424, Feb. 2.
Slot machine bar. A. F. Villaudy. 171,431, Feb. 2.
Sock. O. Fregeolle. 171,396, Feb. 2.
Spoon or similar article. T. E. Cayer. 171,387, Feb. 2.
Spoon or similar article of flatware. M. Bernstein. 171,375, Feb. 2.
Spray nozzle. O. Manning. 171,417, Feb. 2.
Stand or similar article, Smoker's. W. C. Panzer. 171,420, Feb. 2.
Tank and holder therefor, Fuel. M. C. Snyder. 171,427, Feb. 2.
Toy launching trailer. E. B. Laskin. 171,414, Feb. 2.
Toy walking pig. L. J. Campbell. 171,386, Feb. 2.
Watchcase. J. Granat. 171,397, Feb. 2.
Wheel cover. W. J. Flajole. 171,394–5, Feb. 2.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2d DAY OF FEBRUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasion resistant wire enamels. F. J. Emig and M. J. Muth. 2,668,157, Feb. 2.
Accounting business form. H. W. English and E. E. Beeton. 2,668,065, Feb. 2.
Acoustical tile, Producing. R. P. Copeland. 2,668,123, Feb. 2.
Acrylonitrile, Production of. W. Reppe, N. v Kutepow, and O. Leichtle. 2,668,175, Feb. 2.
Activator control. C. A. Baresch. 2,668,085, Feb. 2.
Adhesive bonding processes. J. J. Brophy and R. R. Perron. 2,668,133, Feb. 2.
Adjustable break-through torque wrench. R. E. Garwood. 2,667,800, Feb. 2.
Adjustable tight line holder. L. Price. 2,667,695, Feb. 2.
Adjustment structure for concaves of gyratory crushers. H. H. Rumpel. 2,668,015, Feb. 2.
Air conditioning unit, Window mounted. C. D. Harris and J. A. Galazzi. 2,667,765, Feb. 2.
Aircraft arresting gear. E. L. Martin and J. P. Fosness. 2,668,031, Feb. 2.
Aircraft control column. C. H. Davies and R. V. Ostling. 2,668,029, Feb. 2.
Aircraft landing gear lock. L. A. Smith and H. F. Gamble. 2,668,030, Feb. 2.
Aircraft tab control mechanism. V. A. Peck. 2,668,028, Feb. 2.
Airplane flap and ground contact control means therefor. V. J. Burnelli. 2,668,027, Feb. 2.
Air separator for reclaiming abrasives from waste materials. L. H. Bishop and L. W. Tribbett. 2,667,969, Feb. 2.
Alcohols, Production of. F. W. Banes, W. P. Fitz Gerald, J. F. Nelson, and E. R. Gilliland. 2,668,181, Feb. 2.
Alkenyl hydroperoxymethanes as polymerization catalysts. W. B. Reynolds, J. E. Wicklatz, and T. J. Kennedy. 2,668,163, Feb. 2.
Alloy: *See*—
  Machinable titanium base tellurium alloy.
Ampoule. G. N. Hein, Jr. 2,667,873, Feb. 2.
Analytical apparatus for smokes and gases. E. K. von Brand. 2,667,779, Feb. 2.
Anatomical knee and hydraulic snubber. O. S. Johnson. 2,667,644, Feb. 2.
Animal trap. P. J. Stonestreet. 2,667,715, Feb. 2.
Animal trap. J. S. Vickers. 2,667,714, Feb. 2.
Antifoam compositions and foam inhibition. G. W. Luvisi. 2,668,150, Feb. 2.
Apparatus and method for continuous pickling and regeneration of contact acid. E. D. Martin. 2,668,130, Feb. 2.
Apparatus and method for creping paper. K. E. L. Grettve. 2,667,910, Feb. 2.
Apparatus for casting metallic rod. G. Harrison. 2,667,673, Feb. 2.
Apparatus for cementing wells. T. E. Alexander. 2,667,926, Feb. 2.
Apparatus for detecting suspended matter in fluids. D. Mapes. 2,668,284, Feb. 2.
Apparatus for draining and washing granular material. J. E. Watkins and M. B. Mathews. 2,667,881, Feb. 2.
Apparatus for feeding and stitching slide fastener stringers to garment fly pieces. M. K. and J. E. Rohrlick. 2,667,849, Feb. 2.
Apparatus for feeding books and the like bodies in succession from a stack or tier thereof. L. J. B. R. French. 2,667,979, Feb. 2.
Apparatus for handling automobiles. R. O. Billings. 2,667,983, Feb. 2.
Apparatus for implanting hair in manikins, dolls, and the like. J. J. Mann and J. A. McDonnell. 2,667,879, Feb. 2.
Apparatus for making castings. R. J. Hines. 2,667,674, Feb. 2.
Apparatus for making mouthpiece cigarettes. D. W. Molins, F. F. Ruau, and N. W. Jackson. 2,667,877, Feb. 2.
Apparatus for manufacturing plastic shuttlecocks. W. C. Carlton. 2,667,662, Feb. 2.
Apparatus for measuring extension of samples under tension. J. M. Buist and G. W. Jamin. 2,667,699, Feb. 2.
Apparatus for measuring volumes of solid materials. J. E. Shea. 2,667,782, Feb. 2.
Apparatus for molding building blocks. F. H. Jackman. 2,667,679, Feb. 2.
Apparatus for positioning strip. E. T. Lorig. 2,668,054, Feb. 2.
Apparatus for removing covers from baking pans. H. E. Temple. 2,668,002, Feb. 2.
Apparatus for spacing articles on conveyers. E. J. Williams. 2,667,960, Feb. 2.
Apparatus for the use of shaped explosive charges. J. H. Church and G. J. Kessenich. 2,667,836, Feb. 2.
Apparatus for twisting helical fins and bonding them to tubes. J. W. Brown, Jr. 2,667,852, Feb. 2.
Arrangement of the oil pump in motor-compressor groups of refrigerating apparatus. I. Szaniszló. 2,668,007, Feb. 2.
Article feeding apparatus. R. A. F. Sandberg and F. G. Wikstrom. 2,668,219, Feb. 2.
Aryldialkyl peroxides, Preparation of. H. Boardman. 2,668,180, Feb. 2.
Assembly of two and three pole circuit breakers. W. H. Edmunds. 2,668,206, Feb. 2.
Asymmetrically conductive device. W. C. Dunlap, Jr. 2,668,262, Feb. 2.
Atomizer, Centrifugal. D. D. Peebles and C. P. Turner. 2,668,080, Feb. 2.
Atomizing apparatus, particularly for arboriculture and agriculture. L. Pasteur. 2,668,082, Feb. 2.
Atomizing device. M. F. Saxton. 2,668,084, Feb. 2.
Attachment of eye muscles to implants, Means for. H. R. Moulton. 2,667,645, Feb. 2.
Autogenous smelting of sulfides. J. R. Gordon, G. H. C. Norman, P. E. Queneau, W. K. Sproule, and C. E. Young. 2,668,107, Feb. 2.
Automatic limit bridge. J. C. Bregar. 2,667,970, Feb. 2.
Automatic noise limiter. R. C. Moses. 2,668,233, Feb. 2.
Autotransformer and ballast reactor, Combined low reactance. W. L. Henderson. 2,668,250, Feb 2.
Awning type window. J. C. Bancroft. 2,667,950, Feb. 2.
Axle assembly. A. F. Seelig, Jr. 2,668,051, Feb. 2.
Bag: *See*—
  Valve bag.
Bag filling machine, Paired. C. W. Vogt. 2,667,997, Feb. 2.
Balancing steam consumption in air conditioning. W. W. Cummings. 2,667,766, Feb. 2.
Ball-winding machine. H. N. Huse. 2,668,016, Feb. 2.
Bearing mountings, Making a. W. J. Parks. 2,667,689, Feb. 2.
Bicycle attached toy machine gun. E. S. Connell, Jr. 2,667,720, Feb. 2.
Bicycle fork straightening tool. A. G. Beasley. 2,667,798, Feb. 2.
Blade attaching means. H. E. McCrery. 2,667,824, Feb. 2.
Bleaching chemical-paper pulp. F. L. Fennell. 2,668,095, Feb. 2.
Boat carrier. H. F. Proehl. 2,667,984, Feb. 2.
Body support and weight distributor. E. G. Dustin. 2,667,913, Feb. 2.
Body support and weight distributor. E. G. Dustin. 2,667,917, Feb. 2.
Boiler: *See*—
  Vaporizable liquid electrode boiler.
Bolt for submachine guns, Rotatable. H. A. Asby, Jr. 2,667,817, Feb. 2.
Book casemaking machine, Automatic. A. R. Stobb. 2,667,909, Feb. 2.
Bottle capping machine control mechanism. H. W. Martin. 2,668,203, Feb. 2.
Bow sight. D. J. Leafstrand. 2,667,692, Feb. 2.
Bowling pin conveying and assembling mechanism for bowling pin setting machines. R. E. Rundell and P. M. Nejedly. 2,668,056, Feb. 2.
Box: *See*—
  Front opening watch display box.
Bracket: *See*—
  Spirit level bracket.
Brake: *See*—
  Rotor brake.
Brake and clutch assembly, Air-cooled press. P. H. and G. I. Danly and V. Georgeff. 2,667,954, Feb 2.
Brake shoe assembly. S. G. Tilden. 2,667,948, Feb. 2.
Brewing apparatus, Beverage. H. W. Peters. 2,667,827, Feb. 2.
Brown sugar, Producing. B. A. Oxnard, C. H. Criswell, and A. J. Thomas. 2,668,128, Feb. 2.
Buckle, Belt. H. Ganz. 2,667,677, Feb. 2.
Bulb socket assembly embodying means for fastening the same in a perforated panel. H. H. Clayton and A. D. Satterthwaite. 2,668,281, Feb. 2.

Bumper stop for separator screens, Resilient. L. Johnson. 2,667,971, Feb. 2.
Burner: *See*—
Liquid fuel burner.
Burning and sintering material. K. Meyer and H. Rausch. 2,668,042, Feb. 2.
Business machine with optionally movable head or platen. O. J. Sundstrand and O. W. Swanson. 2,667,956, Feb. 2.
Cable and reel for lowering objects of different weight at constant speed. W. F. Klemm. 2,668,036, Feb. 2.
Cable with oil pressure outside the insulation, Electric. L. Domenach and L. Macardier. 2,668,186, Feb. 2.
Can end marker, Rotary. E. Laxo. 2,667,830, Feb. 2.
Capacitor pressure gauge. C. P. Spaulding. 2,667,786, Feb. 2.
Capping machine, Bottle. A. G. Enock. 2,667,998, Feb. 2.
Capping machine, Bottle. H. G. Vore and A. C. Magalos. 2,667,999, Feb. 2.
Car and train-line coupler arrangement, Rotatable. F. H. Kayler. 2,667,977, Feb. 2.
Carrier: *See*—
Boat carrier.
Collapsible and extensible luggage carrier.
Cartridge, Hermetically sealed explosive. C W. Musser and N. K. Turnbull. 2,667,837, Feb. 2.
Case for glasses. I. M. Laibson. 2,667,965, Feb. 2.
Case for shavers and the like, Shipping and display. I. Jepson and F. E. Cerveny. 2,667,966, Feb. 2.
Casing scraper. R. C. Baker. 2,667,931, Feb. 2.
Casing scraper. D. F. Saurenman and P. E. Hilton. 2,667,930, Feb. 2.
Castor oil soluble coloring composition for coating copying paper. L. C. Chien. 2,668,172, Feb. 2.
Catheter, Inflatable retention. F. J. Wallace. 2,667,875, Feb. 2.
Ceiling construction, Acoustic. V. Jacobson. 2,667,667, Feb. 2.
Cellular materials and compositions therefor, Producing. G. M. O'Neal. 2,668,152, Feb. 2.
Cellulose trisalkylcarbamates and making the same. J. Pikl. 2,668,168, Feb. 2.
Centrifugal system of wet spinning of natural fibers. A. Bolelli. 2,667,733, Feb. 2.
Chain: *See*—
Drive chain. Sprocket chain.
Silent chain.
Change-cycle initiating mechanism for automatic phonographs. R. A. Mullaney. 2,668,058, Feb. 2.
Charging ore and the like and its preparation. H. F. West and J. H. Veale. 2,668,106, Feb. 2.
Cigar and cigarette extinguisher. Z. C. Manning. 2,667,878, Feb. 2.
Circuit: *See*—
Electrical circuit.
Circuit breaker, Automatic. P. M. Christensen. 2,668,213, Feb. 2.
Circuit breaker isolating device. W. E. Welsh. 2,668,201, Feb. 2.
Circuit breaker, Multipole. F. E. Myers. 2,668,205, Feb. 2.
Circuit for induction motors, Load relay. R. B. Hunter, E. Pell, and N. L. Schmitz. 2,668,266, Feb. 2.
Circuit for induction motors, Load relay. R. B. Hunter, E. Pell, and N. L. Schmitz. 2,668,268, Feb. 2.
Circuit for telephone systems, Finder-allotter. F. Kessler and W. W. Pharis. 2,668,194, Feb. 2.
Clamp: *See*—
Hand clamp.
Clamping assembly having self-held pressure plates. L. A. Shupe. 2,667,949, Feb. 2.
Clasp, Safety. P. A. Brutti. 2,667,675, Feb. 2.
Cleaner: *See*—
Vacuum cleaner.
Cloak, Hood-forming rain. L. M. Finnegan. 2,667,641, Feb. 2.
Clock, Electromechanic wall calendar. R. Solari. 2,667,735, Feb. 2.
Clutch control mechanism. G. O. Ainsworth. 2,667,952, Feb. 2.
Clutch type speed responsive device with magnetic link. G. A. Winterburn, C. B. Walworth, and L. E. Lawrence. 2,668,043, Feb. 2.
Coating compositions for metals containing a phenol formaldehyde resin and a phosphate. R. H. Sturm. 2,668,158, Feb. 2.
Coating for the preservation of foods. M. Rizzardi. 2,668,121, Feb. 2.
Coaxial cable antenna connector. J. Jipp. 2,668,239, Feb. 2.
Coin changing mechanism. S. L. Childers and W. B. Warren. 2,667,880, Feb. 2.
Coke oven door. P. van Ackeren and F. Doll. 2,668,075, Feb. 2.
Collapsible and extensible luggage carrier. E. G. Kuda. 2,668,061, Feb. 2.
Collapsible screen crib cover. W. J. Donovan. 2,667,648, Feb. 2.
Compartment for refrigerators, Egg storage. R. M. Tenney, J. R. Hornaday, and D. H. Reeves. 2,667,758, Feb. 2.
Compensator for rifles. V. L. Strong. 2,667,815, Feb. 2.
Complex chromium azo compounds, Preparation of. R. P. Monnier. 2,668,167, Feb. 2.
Composite lead chromate-lead silicate pigment. A. R. Pitrot. 2,668,122, Feb. 2.
Compressor. L. H. Browne. 2,668,004, Feb. 2.
Compressor plate for posting trays, Tiltable. J. D. Lear. 2,667,876, Feb. 2.
Condensation of zinc from its vapor in gaseous mixtures. S. Robson. 2,668,046, Feb. 2.
Condensation products of higher fatty acids, polyalkylene polyamines and organic halides. J. E. Carpenter. 2,668,165, Feb. 2.
Condenser for refrigerating systems. J. R. Hornaday. 2,667,762, Feb. 2.
Conductor system for electrified rails. R. Connell. 2,668,199, Feb. 2.
Conductor terminal with strain relieving means, Electrical. H. Epstein. 2,668,279, Feb. 2.
Connector: *See*—
Coaxial cable antenna connector. Dead-end splice connector.
Self-closing container.
Connector with rotatably mounted conductor securing means. I. F. Matthysse. 2,668,211, Feb. 2.
Constructing rocker arms. J. R. Winter, Jr. 2,667,688, Feb. 2.
Continuous milk filling system. W. H. Harstick. 2,668,001, Feb. 2.
Control device and valve. W. L. Huntington. 2,667,897, Feb. 2.
Control for vehicles. E. L. Purkey. 2,667,939, Feb. 2.
Control means for heating systems. E. B. Tidd. 2,668,216, Feb. 2.
Control mechanism for rotary balers. P. H. Harrer. 2,667,729, Feb. 2.
Controlling stem-end decay and mold on citrus fruits. P. A. Wolf. 2,668,115–16, Feb. 2.
Conveyer and transfer apparatus for the drying of leather. J. C. Tusting and G. Overstall. 2,667,981, Feb. 2.
Conveyer belt. G. Ludwig and H. Gandert. 2,667,789, Feb. 2.
Conveyer control apparatus. R. S. Coleman. 2,667,957, Feb. 2.
Conveyer with flanged clamping disks, Flight. H. W. Hapman. 2,667,962, Feb. 2.
Conveying and positioning mechanism. C. F. Rogers. 2,667,959, Feb. 2.
Conveying and transferring mechanism. C. J. Malhiot. 2,667,958, Feb. 2.
Cooling means for motor compressor units. C. D. Harris, R. L. Eichhorn, J. R. Prosek, and G. P. McNamara. 2,667,763, Feb. 2.
Copper phthalocyanine, Manufacturing. J. D. Compton. 2,668,171, Feb. 2.
Core barrel assembly. J. C. Stokes. 2,668,037, Feb. 2.
Corona discharge voltage regulator. P. W. Stutsman. 2,668,254, Feb. 2.
Corrosion inhibitor for liquid hydrocarbons. G. W. Luvisi. 2,668,100, Feb. 2.
Counterbore attachment. B. T. Bowen. 2,667,795, Feb. 2.
Counter, Differential. M. A. Lindeman. 2,668,012, Feb. 2.
Coupling: *See*—
Torque transmitting coupling.
Coupling attachment for tractor drawn plow. W. K. Settlemire. 2,667,710, Feb. 2.
Coupling head for attaching towing devices to bumpers of automobiles. W. E. Bolling. 2,668,064, Feb. 2.
Coupling means for tubular casing. F. F. Stadelhofer. 2,668,066, Feb. 2.
Cover: *See*—
Collapsible screen crib cover. Receptacle cover.
Crib attachment, Collapsible and portable. G. J. Reggiani. 2,667,647, Feb. 2.
Crutch tip. M. Prete. 2,667,885, Feb. 2.
Curb finder for motor vehicles. L. A. Ihlein. 2,667,854, Feb. 2.
Cutoff for paperboard machines, Automatic. T. A. McArn. 2,667,821, Feb. 2.
Cutting and loading machine, Combined. F. Cartlidge. 2,668,039, Feb. 2.
Cyclone separator. J. Crites. 2,667,944, Feb. 2.
Dating machine. P. B. Streich, Sr. 2,667,831, Feb. 2.
Davit, Translating and tilting. W. E. Elling. 2,667,649, Feb. 2.
Dead-end splice connector. H. P. Dupre. 2,668,280, Feb. 2.
Deck and wall form construction, Concrete. T. Sato. 2,667,680, Feb. 2.
Decorative laminae, Manufacture of. H. J. Mallabar. 2,668,124, Feb. 2.
Defrost control, Automatic. C. S. Grimshaw. 2,667,753–5, Feb. 2.
Developing chamber for developing fume sensitive printing papers. R. F. Martlin. 2,667,826, Feb. 2.
Device for advancing film strips. J. F. Jaros. 2,667,810, Feb. 2.
Device for forming pipe joints. H. H. Herman. 2,667,865, Feb. 2.
Device for treating workpieces of a curved or angular shape by inductive heating in a magnetic high-frequency field. D. C. Van Iperen. 8,668,227, Feb. 2.
Dewatering lignocellulosic materials in the production of fuel. K. N. Cederquist. 2,668,099, Feb. 2.
Dewaxing petroleum oils and the like. F. T. E. Palmqvist. 2,668,141, Feb. 2.

Diazonium compounds. W. Seidenfaden and H. Albert. 2,668,166, Feb. 2.
Dinitrobutyrates. K. Klager. 2,668,176, Feb. 2.
Directional atomization. R. L. Menegus, S. J. Friedman, and F. A. Gluckert. 2,668,079, Feb. 2.
Dishwashing machine. D. D. Demarest. 2,667,883, Feb. 2.
Dispenser: *See*—
Liquid dispenser. Sheet material dispenser.
Dispensing device, Self-sealing. H. N. Perelson. 2,667,986, Feb. 2.
Dispensing mechanism with time controlled flow. A. B. Mojonnier. 2,667,990, Feb. 2.
Distance measuring device. P. A. Perilhou. 2,668,288, Feb. 2.
Disulfides as synergists for 2,4-D. L. D. Goodhue. 2,668,103, Feb. 2.
Doll action, Walking. J. E. Edwardson. 2,667,719, Feb. 2.
Domestic appliance. F. H. McCormick. 2,668,221–3, Feb. 2.
Door: *See*—
Coke oven door. Maximum security door.
Door latch. H. W. Falk. 2,668,072, Feb. 2.
Drawing machine, Perspective. D. J. McQuaid, Sr., and F. W. Riehl. 2,667,694, Feb. 2.
Drinking fountain and valve therefor, Sanitary. J. K. Murdock and E. Le Roy. 2,667,889, Feb. 2.
Drive chain. W. H. Bendall. 2,667,792, Feb. 2.
Drive for moving picture cameras. A. H. Hart. 2,667,808, Feb. 2.
Drive mechanism for tractor treads. F. Cartlidge. 2,667,938, Feb. 2.
Dry pipe valve. A. C. Rowley. 2,667,934, Feb. 2.
Drying device for skeins of yarn. E. Kropf. 2,667,707, Feb 2.
Dusting and broadcasting machine, Combined. J. C. Tygart. 2,668,060, Feb. 2.
Effecting and controlling the supply of liquid fuel to prime movers, Means for. R. J. Ifield. 2,667,918, Feb. 2.
Electric insulator. G. H. Jonker. 2,668,118, Feb. 2.
Electric lamp. J. L. Ouweltjes. 2,668,252, Feb. 2.
Electrical circuit. P. W. Stutsman. 2,668,259, Feb. 2.
Electrical pulse-width discriminator. C. T. McCoy. 2,668,236, Feb. 2.
Electrically operated control system. R. W. Heath. 2,667,748, Feb. 2.
Electrode suspension mechanism and operation. K. Foyn. 2,668,183, Feb. 2.
Electrometric titration, Continuous. K. E. Hallikainen and D. J. Pompeo. 2,668,097, Feb. 2.
Electron discharge device having cavity resonator. L. F. Broadway. 2,668,258, Feb. 2.
Electronic drying apparatus, High-frequency. J. G. Bernard. 2,668,226, Feb. 2.
Electropad. F. J. Hart. 2,667,866, Feb. 2.
Elevator and transfer mechanism, Weight actuated. E. E. Evans. 2,667,982, Feb. 2.
Elevator top for desks. W. J. Bargen. 2,668,093, Feb. 2.
Engine room telepgraph. H. H. Curry. 2,668,285, Feb. 2.
Engine starter control system. B. H. Short and J. W. Dyer. 2,668,247, Feb. 2.
Envelope flap opening device. J. W. Bach. 2,668,053, Feb. 2.
Equipment for use with multitrack magnetic tape records. B. Roberts. 2,668,059, Feb. 2.
Esters of aralkylated cyclohexanols. G. M. Corbett, G. C. Wiggins, and W. S. Thurber. 2,668,177, Feb. 2.
Excavating chain and bucket mechanism. A. R. Askue. 2,667,709, Feb. 2.
Exerciser, Wrist. L. and A. Sharp. 2,668,055, Feb. 2.
Exhaust silencer or muffler for internal-combustion engines, Jet torpedo. G. W. Gallihugh. 2,667,940, Feb. 2.
Exposure meter. A. T. Williams. 2,667,809, Feb. 2.
Expulsion type arrester. H. O. Stoelting and C. W. Petersen. 2,668,255, Feb. 2.
Fabric: *See*—
Knitted fabric.
Face cream applying and face massaging implement. S. C. Petersen. 2,667,867, Feb. 2.
Facing concrete blocks with tile. T. F. Ferrell. 2,667,664, Feb. 2.
Fastener: *See*—
Window fastener.
Feed roll mounting for carding machines. T. G. Gray. 2,667,665, Feb. 2.
Feeder: *See*—
Poultry feeder.
Feeder for whole fruit juicers. T. J. Reese and N. B. Wood. 2,667,961, Feb. 2.
Feeding mechanism for sewing machines. N. Knaus and A. G. Millington. 2,667,851, Feb. 2.
Fiber liberation in cotton stalks and the pulp. A. M. Spencer, A. Jacobson and K. Sixt. 2,668,110, Feb. 2.
Filter for intermittent light beam projectors, Heat. C. A. Hahn. 2,667,807, Feb. 2.
Fire extinguisher system. S. T. Stack. 2,667,933, Feb. 2.
Fishing reel. R. D. Hull. 2,668,025, Feb. 2.
Fishing rod and reel clamp. C. D. Stephens. 2,667,713, Feb. 2.
Flameproof fibrous aminoethylated cellulose derivatives. W. A. Reeves and J. D. Guthrie. 2,668,096, Feb. 2.
Flavor injection unit for frozen dessert machines. G. P. Grumbly. 2,667,846, Feb. 2.
Flow control device. F. J. Cantalupo. 2,667,900, Feb. 2.
Fluid pressure valve. E. A. Rockwell. 2,667,861, Feb. 2.
Flushing device for bottling machine valves. M. J. Gloimo. 2,667,882, Feb. 2.
Fly trap. L. R. Garcia. 2,667,716, Feb. 2.
Foam depressant. J. J. Walker and J. E. Farbak. 2,668,138, Feb. 2.
Focusing guide. E. G. Nicholas. 2,667,825, Feb. 2.
Folding table. C. V. Cowan. 2,668,089, Feb. 2.
Follower and homing switch control means. D. E. Hooker and F. G. Nicolaus. 2,668,261, Feb. 2.
Forming a body of salt. L. Blasczyk. 2,667,663, Feb. 2.
Foundry cupola. R. A. M. Ronceray. 2,668,048, Feb. 2.
Frame: *See*—
Seat frame.
Frame mounting and adjusting apparatus. J. T. Haefner. 2,668,032, Feb. 2.
Frequency compensation method and apparatus. J. T. Mullin. 2,668,283, Feb. 2.
Frequency controlling system. H. Tunick. 2,668,232, Feb. 2.
Front opening watch display box. F. E. Blod and A. M. Blumenfeld. 2,667,967, Feb. 2.
Frozen pizza, Making. J. Bucci. 2,668,117, Feb. 2.
Fuel control apparatus for internal-combustion engines. L. Lee, II. 2,667,743, Feb. 2.
Fuel injection and burner system for reactive propulsion power plants. N. C. Price. 2,667,741, Feb. 2.
Fuel injection apparatus and control mechanism therefor. C. F. High. 2,667,840, Feb. 2.
Furnace system. F. O. Hess. 2,668,040, Feb. 2.
Fuse cutout. J. J. Cooper and O. A. Vordtriede. 2,668,209, Feb. 2.
Fuse cutout. O. A. Vordtriede. 2,668,214, Feb. 2.
Fuse, Nonmetallic mine. L. C. Cook. 2,667,838, Feb. 2.
Game, Simulated tennis. B. W. Fry. 2,668,057, Feb. 2.
Gas analyzer, Infrared. V. Williams. 2,668,243, Feb. 2.
Gas cleaning device, Electrified, centrifugal. H. A. Wintermute. 2,667,942, Feb. 2.
Gauge: *See*—
Capacitor pressure gauge. Tool setting gauge.
Gauge. L. R. Pistoles. 2,667,700, Feb. 2.
Gauge for brake lining cutters. S. G. Tilden. 2,667,923, Feb. 2.
Gauge for setting jointer knives and methods. H. S. Beale. 2,667,702, Feb. 2.
Gauge unit. A. G. Davis. 2,667,701, Feb. 2.
Gear: *See*—
Aircraft arresting gear.
Gear actuator, Landing. O. H. Griswold. 2,667,953, Feb. 2.
Gelling normally liquid hydrocarbons. R. M. Alm. 2,668,098, Feb. 2.
Gem setting apparatus. J. D. Richardson. 2,667,686, Feb. 2.
Generator: *See*—
Reversible direct current generator.
Germ-counteracting compositions. J. A. Vaichulis and A. C. Ivy. 2,668,135, Feb. 2.
Getter for electron discharge devices. W. G. Taylor. 2,668,253, Feb. 2.
Glass cutting machine. P. Marton. 2,667,691, Feb. 2.
Glass electrode. P. T. Gilbert, Jr., and E. P. Arthur. 2,668,143, Feb. 2.
Goggles, Ventilated. G. R. Hoffmaster. 2,667,640, Feb. 2.
Greeting card. H. E. Anderson. 2,667,711, Feb. 2.
Ground rod driving means. C. W. Moseley. 2,667,752, Feb. 2.
Gyroscopic apparatus. A. P. Glenny and D. Waloff. 2,667,705, Feb. 2.
Hammer, Cam action magazine type tack. E. G. Schick. 2,667,639, Feb. 2.
Hand clamp. J. M. Hargrave and D. L. Farmer. 2,667,678, Feb. 2.
Harpoon, Explosive actuated. J. O. Blackmon. 2,667,814, Feb. 2.
Header for harvester combines. W. R. Dray. 2,667,728, Feb. 2.
Hearing aid, Wearable electronic. G. E. Gustafson and B. R. Criswell. 2,668,197, Feb. 2.
Heat consumption meter. A. J. Mijnlieff, B. A. van Rietschoten, and P. Loos. 2,667,783, Feb. 2.
Heat exchange and particle collecting apparatus for combustion gases, Unitary. R. A. Ekstrom, Jr. 2,667,941, Feb. 2.
Heat-sensitive copying-paper. N. W. Taylor and B. L. Clark. 2,668,126, Feb. 2.
Heat treatment of finely divided solids. N. V. S. Knibbs. 2,668,041, Feb. 2.
Heating appliance, Electric. E. Spurr. 2,668,220, Feb. 2.
Heavy cyclical centrifugal machine. J. Hertrich. 2,667,974, Feb. 2.
Heterocyclic mercury amine compounds. F. J. Sowa. 2,668,170, Feb. 2.
High and low pressure cutoff valve. R. E. Meynig. 2,667,890, Feb. 2.
High molecular weight polyhydroxyacetic ester, Preparation of. C. E. Lowe. 2,668,162, Feb. 2.
High-speed countermechanism. E. Dawson. 2,668,013, Feb. 2.

High-temperature packing. J. R. Boyer and R. M. Luckring. 2,667,684, Feb. 2.
High-temperature packing. J. R. Boyer and R. M. Luckring. 2,667,804, Feb. 2.
High vacuum diffusion pump. J. Wishart. 2,668,005, Feb. 2.
Holder: *See*—
Adjustable tight line Tire chain holder.
holder.
Holder for cartridge enclosed protectors for electric circuits. M. F. Duerkob. 2,668,215, Feb. 2.
Hollow articles, Making. J. H. Friedman. 2,667,650, Feb. 2.
Homosulfanilamide salts of benzalthiosemicarbazones. R. Behnisch, F. Mietzsch, and H. Schmidt. 2,668,178, Feb. 2.
Humidifier, Cigar case. J. P. Dry. 2,668,038, Feb. 2.
Hydraulic reducing valve. S. H. Edge and F. L. Beet. 2,667,747, Feb. 2.
Hydrophobic inorganic particulate materials. G. W. Pedlow, Jr., and C. S. Miner, Jr. 2,668,151, Feb. 2.
Hypodermic injection apparatus. G. N. Hein, Jr. 2,667,871, Feb. 2.
Ignition system, High-frequency. K. A. Harmon. 2,668,271, Feb. 2.
Incubating apparatus. S. H. Smith. 2,667,857, Feb. 2.
Injection apparatus. E. A. May. 2,667,870, Feb. 2.
Insecticide applicator, Cattle and hog. C. H. Murray and D. E. Breithaupt. 2,667,859, Feb. 2.
Insulating a metal structure and insulated metal structure. J. H. Baker and R. E. Nelson. 2,668,125, Feb. 2.
Insulator, Lead through. W. A. Von Wald, Jr., and T. E. Marshall, III. 2,668,187, Feb. 2.
Interpolator, Proportional. C. J. Ackermann. 2,667,696, Feb. 2.
Invalid walker. C. H. Forbes. 2,667,914, Feb. 2.
Ion source. C. F. Barnett and C. B. Mills. 2,668,260, Feb. 2.
Isolating gap electrode. C. W. Petersen. 2,668,210, Feb. 2.
Item retaining mechanism for accounting machines. W. A. Anderson. 2,668,010, Feb. 2.
Jet-propulsion system for aircraft, Orientable. N. C. Price. 2,668,026, Feb. 2.
Joint for pipe lines, Expansion. W. L. Kingston. 2,667,899, Feb. 2.
Knitted fabric. F. L. Aibel. 2,667,775, Feb. 2.
Knitting machine and operating the same, Straight. J. Václavík. 2,667,771, Feb. 2.
Lamp: *See*—
Electric lamp. Portable fluorescent lamp.
Lamp cap for tubular electric lamps. C. H. J. Anderson and J. H. F. van Werd. 2,668,277, Feb. 2.
Lamp structure. B. L. Levinson and J. Korshin. 2,668,228, Feb. 2.
Latch: *See*—
Door latch.
Latch locking control mounting. E. D. Grizzard. 2,668,069, Feb. 2.
Latch mechanism. F. R. Collar and J. C. Mitchell. 2,668,073, Feb. 2.
Lens, Beam focusing. H. W. B. Skinner. 2,668,241, Feb. 2.
Lens, Calutron electric. H. W. B. Skinner. 2,668,242, Feb. 2.
Lever, Dump box control. L. D. Webster. 2,667,793, Feb. 2.
Light-modifying device, Variable. H. Osterberg. 2,667,811, Feb. 2.
Linear dodecamethyltetraphosphoramide. H. Tolkmith. 2,668,179, Feb. 2.
Liquid dispenser. Z. F. Monteiro. 2,667,646, Feb. 2.
Liquid explosives. H. J. Fisher, D. P. MacDougall, and G. B. Kistiakowsky. 2,668,102, Feb. 2.
Liquid fuel burner. R. H. Pardee and R. J. Strawn, Jr. 2,667,919, Feb. 2.
Liquid switch. E. Vogelsanger and L. Ubezio. 2,668,217, Feb. 2.
Loading and cleaning attachment for cane harvesters. B. C. Thomson. 2,667,732, Feb. 2.
Lock: *See*—
Aircraft landing gear lock. Two key cylinder lock.
Power tool lock.
Lock for tools and the like, Power. C. B. De Vlieg. 2,667,819, Feb. 2.
Lock mechanism. N. Schmitt. 2,667,778, Feb. 2.
Lock mechanism. N. Schmitt. 2,668,070, Feb. 2.
Lock mechanism, Sliding door. A. R. Adams, E. D. Grizzard, and P. C. Cady. 2,668,071, Feb. 2.
Locking-bolt operating structure. H. J. Troche and J. H. Holan. 2,668,076, Feb. 2.
Lubricant container for bearings. R. G. Marzolf. 2,668,086, Feb. 2.
Lubricating compositions. G. S. Ronay. 2,668,145, Feb. 2.
Luger conversion. M. J. Hunting and G. L. Mack. 2,667,712, Feb. 2.
Machinable titanium-base alloy containing arsenic. R. I. Jaffee. 2,668,108, Feb. 2.
Machinable titanium base tellurium alloy. H. P. Croft. 2,668,109, Feb. 2.
Machine and method for producing gears. A. L. Stewart and L. O. Carlsen. 2,667,818, Feb. 2.
Machine for cutting sheet material. F. M. Hill and H. H. Le Blanc. 2,667,922, Feb. 2.
Machine for forming and preparing bodies of candy for wrapping. J. M. Carris and C. L. Crane. 2,667,847, Feb. 2.
Machine for forming bottle top covers. H. O. Potter and L. R. Carrigan. 2,667,823, Feb. 2.
Machine vise having base-clamping screw and nut assembly for sectional movable jaws. S. J. Rzepela. 2,667,799, Feb. 2.
Magazine assembly. H. S. Gleason. 2,668,021, Feb. 2.
Magnetic fishing tool. J. H. Kirby, II. 2,668,077, Feb. 2.
Magnetically biased check valve. S. D. Pool and E. K. Karlsson. 2,667,895, Feb. 2.
Margarine coloring (pellet locating). B. T. Hensgen. 2,668,114, Feb. 2.
Marking and switching system. S. T. Brewer. 2,668,195, Feb. 2.
Mat. C. J. Peterson. 2,667,654, Feb. 2.
Material containing sodium polyphosphates, Producing a. B. Blaser and F. Weldes. 2,668,147, Feb. 2.
Material progressor for machines for cleaning or scouring grain, bran, or like materials. F. Tanner. 2,667,905, Feb. 2.
Maximum security door. P. S. Johnson. 2,668,052, Feb. 2.
Measuring system of the balanceable network type. A. J. Williams, Jr. 2,668,264, Feb. 2.
Medicament cartridge assembly. F. S. Dickinson, Jr. 2,667,874, Feb. 2.
Merchandising package and article carrier, Combined. J. K. Bruce and T. H. Davis. 2,667,995, Feb. 2.
Metal-working compositions. T. H. Cafcas and A. W. Lindert. 2,668,146, Feb. 2.
Meter: *See*—
Exposure meter. Piston meter.
Heat consumption meter.
Meter and damping magnet structure, Unitary integrating. J. H. Goss, L. I. Mendelsohn, and H. A. Bakke. 2,668,275, Feb. 2.
Milking machine, Airtight. W. A. Scott. 2,667,855, Feb. 2.
Mirror and light beam apparatus for checking wheel alignment characteristics with correction for run-out. J. P. Carr. 2,667,805, Feb. 2.
Mixing device, Sirup. R. J. Unser. 2,667,989, Feb. 2.
Mixtures of hydrogen and carbon oxides, Preparing. M. R. Arnold and H. M. Baugh. 2,668,101, Feb. 2.
Mold for use in the manufacture of dry rectifiers. A. Jenkins. 2,667,722, Feb. 2.
Monopropyl dixylyl phosphate and process. W. B. Horback, F. Berardinelli, and W. D. Palst. 2,668,174, Feb. 2.
Mop and wringer, Combined. A. L. Le Febvre. 2,667,653, Feb. 2.
Moth proofing woolen goods. E. B. Eriksson. 2,668,127, Feb. 2.
Motor control system, Direct-current. P. C. Keiper and W. M. Ostrander. 2,668,265, Feb. 2.
Motor provided with a cutting-action core, Electromagnetic oscillatory. E. List. 2,668,251, Feb. 2.
Motor valve actuator system, Electric. J. E. Chapman. 2,668,267, Feb. 2.
Motor with pressure responsive volume control, Variable volume hydraulic. E. F. Muller. 2,667,862, Feb. 2.
Mounting: *See*—
Latch locking control Spindle mounting.
mounting.
Mounting. N. E. Lee. 2,668,033, Feb. 2.
Mounting arrangement for storage receptacles. R. J. Carbary. 2,668,092, Feb. 2.
Mouth and ear protector. A. D'Elia. 2,667,869, Feb. 2.
Mouthpiece for cap magazines. F. C. Rodman. 2,668,000, Feb. 2.
Mouthpiece for musical instruments. P. L. Jones. 2,667,803, Feb. 2.
Moving object selective detection system. M. G. White. 2,668,286, Feb. 2.
Multiple photocell structure. C. F. Taylor, W. E. Briggs, and J. F. Weary. 2,668,184, Feb. 2.
Napper. R. E. Langlois and L. G. Blumenbaum. 2,667,681, Feb. 2.
Necktie spreader. W. T. Ely. 2,667,642, Feb. 2.
Needle for knitting machines, Transfer. J. Sirmay. 2,667,770, Feb. 2.
Noise-suppression system for television receivers. W. S. Druz. 2,668,234, Feb. 2.
Nonswelling starch granules with diisocyanates, Making. I. A. Wolff and P. R. Watson. 2,668,169, Feb. 2.
Opener and the like, Can. F. K. Krag. 2,667,690, Feb. 2.
Optical sighting or observation instrument, Extensible. C. D. MacGill. 2,667,813, Feb. 2.
Oscillator, Noninverting. G. A. Brettell, Jr. 2,668,240, Feb. 2.
Packaging for frangible objects. M. F. Ritchie. 2,667,968, Feb. 2.
Packboard and sled, Combination. J. A. Fanelli. 2,667,996, Feb. 2.
Packing machine. D. R. P. Jackson. 2,667,987, Feb. 2.
Pad for ironer rolls. S. A. Obitz. 2,667,685, Feb. 2.
Paintbrush cleaning method. H. W. Battle. 2,668,129, Feb. 2.
Pane retainer. G. R. Gall. 2,667,951, Feb. 2.
Paper making processes. J. R. Lindquist. 2,668,111, Feb. 2.

Paraffin waxes, Preparation of. K. G. Arabian. 2,668,140, Feb. 2.
Parking garage building, Semiautomatic. M. H. Dawson. 2,667,980, Feb. 2.
Pattern controlled shaping machine. D. B. and D. N. Salstrom. 2,667,901, Feb. 2.
Pattern means for circular knitting machines and operating same. W. D. Ide. 2,667,769, Feb. 2.
Phonograph apparatus. B. B. Bauer. 2,668,196, Feb. 2.
Photocell angle response compensator. W. S. Burt. 2,668,246, Feb. 2.
Photographic antibronzing agents. H. J. Schwalenstocker. 2,668,113, Feb. 2.
Photographic color images, Manufacture of. A. H. de Cat, G. M. Sevens, and A. E. Van Dormael. 2,668,112, Feb. 2.
Pillow. W. W. Pfeffer and L. C. Northquist. 2,667,915, Feb. 2.
Pilot burner and ion sensing flame probe, Gas fueled. J. W. Smith. 2,667,920, Feb. 2.
Pin: *See*—
Safety pin.
Pipe roller rest, Two-way. W. B. Pridy. 2,667,978, Feb. 2.
Piston meter. G. E. Batchelder. 2,667,784, Feb. 2.
Piston ring and expander therefor. H. Pien. 2,668,088, Feb. 2.
Piston rings, Making. D. W. Hamm. 2,668,131, Feb. 2.
Plant growth regulant compositions comprising chloroaryloxyacetic acids and esters thereof. J. D. Eastman. 2,668,104, Feb. 2.
Polyunsaturated fluoroolefins. W. T. Miller. 2,668,182, Feb. 2.
Portable fluorescent lamp. H. Akroyd. 2,668,229, Feb. 2.
Potentiometer, Translatory. R. W. Searle. 2,668,218, Feb. 2.
Poultry feeder. J. N. Cussotti. 2,667,858, Feb. 2.
Poultry picking shackle. I. R. Lentz and D. B. Van Dolah. 2,667,660, Feb. 2.
Power tool lock. C. B. De Vlieg. 2,667,820, Feb. 2.
Power transmission unit for use with tractor power takeoffs. H. N. Ward. 2,667,787, Feb. 2.
Preservation of butadiene copolymers. D. J. Beaver. 2,668,161, Feb. 2.
Pressure-operated actuating and relief valve. J. H. Hilldale. 2,667,891, Feb. 2.
Pressurized container valve. J. E. Ayres. 2,667,993, Feb. 2.
Print stripping mechanism. A. N. Rittinger. 2,667,963, Feb. 2.
Printing and accounting system, Ticket. E. L. Schmidt. 2,668,009, Feb. 2.
Producing wrapped articles, Method and apparatus for. J. E. Brandenberger. 2,667,723, Feb. 2.
Production packer apparatus. R. C. Baker. 2,667,928, Feb. 2.
Projector with scrambling drive, Modulated light. D. E. Hooker and F. G. Nicolaus. 2,668,230, Feb. 2.
Propeller and engine control system, Aircraft. J. S. Woodward. 2,667,935, Feb. 2.
Propeller, Boat. W. F. Clark. 2,667,936, Feb. 2.
Protector: *See*—
Mouth and ear protector.
Protein adhesives from animal glue, a hydrazide and formaldehyde. G. O. Orth, Jr. 2,668,154, Feb. 2.
Providing perforations in acoustical tiles. L. J. Dalphone. 2,667,925, Feb. 2.
Pulse widening apparatus. P. W. Ward and D. F. Bowman. 2,668,248, Feb. 2.
Pump: *See*—
High vacuum diffusion
pump.
Pump. C. W. Meader. 2,667,841, Feb. 2.
Pump. W. A. Shallenberg. 2,667,842, Feb. 2.
Radiation monitor. T. A. Rich. 2,668,245, Feb. 2.
Radiator and reflector, Black body. J. T. Gier and R. V. Dunkle. 2,667,806, Feb. 2.
Radio navigation system. L. W. Alvarez. 2,668,287, Feb. 2.
Rake, Side delivery. F. and L. McCall. 2,667,730, Feb. 2.
Receiving and ejecting means for presses, Automatic. R. C. Ingersoll. 2,667,853, Feb. 2.
Receptacle: *See*—
Resiliently mounted lamp
receptacle.
Receptacle cover. C. J. Bax. 2,667,988, Feb. 2.
Recorder with slow speed compensator, Vehicle operation. C. C. Chelf. 2,668,094, Feb. 2.
Recording machine, Profile. N. L. Bryan, Jr. 2,667,698, Feb. 2.
Recovering protein from protein-bearing material. H. O. Lindgren. 2,667,973, Feb. 2.
Reel: *See*—
Fishing reel. Spinning reel.
Reforming process and catalysts. H. A. Strecker and H. M. Stine. 2,668,142, Feb. 2.
Refrigerating system, Two-temperature. L. W. Atchison. 2,667,756, Feb. 2.
Refrigeration method, system, and apparatus. N. C. Turner. 2,667,764, Feb. 2.
Refrigeration system, Plural temperature. M. G. Shoemaker. 2,667,757, Feb. 2.
Refrigerator apparatus. E. H. Brown. 2,667,759, Feb. 2.
Regulating valve. T. Eichmann. 2,667,898, Feb. 2.
Regulator: *See*—
Corona discharge voltage Voltage regulator.
regulator.
Relay or switch, Electromagnetic. B. S. Bengtsson. 2,668,207, Feb. 2.
Relief valve. H. P. Kupiec. 2,667,893, Feb. 2.
Remotely-controllable toy vehicle. H. Müller. 2,667,721, Feb. 2.
Repair chamber for submerged pipe lines. L. I. Osborn. 2,667,751, Feb. 2.
Resettable switch. H. E. Schleicher. 2,668,212, Feb. 2.
Resilient wheel. C. B. Burrell. 2,667,767, Feb. 2.
Resiliently expansible multisectional metallic bands. M. Flaig. 2,667,739, Feb. 2.
Resiliently mounted lamp receptacle. L. M. Avery. 2,668,278, Feb. 2.
Resinous copolymers of 3,4 and 3,5 dichloro-alpha-methylstyrene. G. H. Swart and T. A. Te Grotenbuis. 2,668,164, Feb. 2.
Reversible direct current generator. A. L. Vintenon. 2,668,269, Feb. 2.
Ring setting machine. E. F. Buenger, R. R. Uhrmacher, E. Cairelli, and G. J. Rundblad. 2,667,797, Feb. 2.
Rocket motor hot ash extinguishing and cooling device. J. J. De Carlo. 2,667,839, Feb. 2.
Rod forming device, Double end. J. T. Shields. 2,667,796, Feb. 2.
Rotary multiple selector switch. G. O. Glaze. 2,668,200, Feb. 2.
Rotor brake. W. A. Helsten. 2,667,946, Feb. 2.
Row defining apparatus for cane harvesters. S. D. Pool and E. M. Melin. 2,667,727, Feb. 2.
Rubber seal. W. J. Fitzsimmons. 2,668,067, Feb. 2.
Rule, Measuring. W. O. McGrath. 2,667,697, Feb. 2.
Rupturable apparatus for sealing fluid system elements. C. L. Curtis. 2,667,760, Feb. 2.
Safety accessory for gas stoves. A. Marx. 2,667,864, Feb 2.
Safety device for invalids' wheel chairs. R. A. Caldeira. 2,667,945, Feb. 2.
Safety pin. J. E. Sampson. 2,667,676, Feb. 2.
Saw attachment for agricultural tractors, Tree. P. Whiteside. 2,667,902 Feb 2.
Saw with stabilizing holes, Multiple-toothed circular. D. E. Gommel. 2,667,904, Feb. 2.
Sawing machine with sequentially operated holder-guard and saw. R. A. McCallum. 2,667,903, Feb. 2.
Scalding poultry. H. J. Long. 2,667,661, Feb. 2.
Scale, Bathroom. M. A. Provenzano. 2,668,045, Feb. 2.
Screen clearer which can be rendered inoperative, Unattached. L. Johnson. 2,667,972, Feb. 2.
Seal for rotary shafts. H. Bredemeier. 2,668,068, Feb. 2.
Seal for rotatable shafts, Under liquid. R. E. Kortepeter and R. L. Archbold. 2,667,776, Feb. 2.
Seat construction, Padded saddle. C. A. Persons. 2,667,911, Feb. 2.
Seat frame. G. C. Burd. 2,667,916, Feb. 2.
Seat supporting means, Adjustable. C. E. McCormick. 2,667,912, Feb. 2.
Seat with music box, Nursery. M. F. Harris. 2,667,802, Feb. 2.
Securing printing plates to their cylinders, Means for. T. R. Ziebell. 2,667,832, Feb. 2.
Securing printing plates to their cylinders, Means for. T. R. Ziebell. 2,667,835, Feb. 2.
Securing printing plates to their cylinders under tension, Means for. T. R. Ziebell. 2,667,833–4. Feb. 2.
Self-closing container. B. Stiller. 2,667,906, Feb. 2.
Self-propelled vehicle. W. B. Dean. 2,667,843, Feb. 2.
Sensitive relay. A. H. Lamb and E. G. De Mott. 2,668,208, Feb. 2.
Separation of hydrocarbons. J. B. Baird and N. C. Turner. 2,668,139, Feb. 2.
Separator: *See*—
Cyclone separator.
Separator for cold milk products and the like, Centrifugal. H. M. Spross. 2,668,008, Feb. 2.
Separator for leased warp threads. H. Meier. 2,667,683, Feb. 2.
Sheet material dispenser. E. H. Fairfield. 2,668,022, Feb. 2.
Shield, Water. J. C. Kanter. 2,668,081, Feb. 2.
Shuttle mechanism for feeding web to punch presses. O. V. Dutro. 2,667,924, Feb. 2.
Signal magnitude control system. J. J. Okrent. 2,668,237, Feb. 2.
Signaling device, Moisture responsive. B. D. Kaplan 2,668,202, Feb. 2.
Signaling system, Coded track circuit. T. J. Judge. 2,668,231, Feb. 2.
Silent chain. N. C. Bremer. 2,667,791, Feb. 2.
Sinking mine shafts, Method and apparatus for. C. K. Bain. 2,667,750, Feb. 2.
Slag removal apparatus for pressure-fired combustion apparatus, Continuous. P. B. Silk. 2,667,848, Feb. 2.
Slide and bolt for firearms, Operating. C. E. Simpson. 2,667,816, Feb. 2.
Slingshot. E. E. Styles. 2,667,863, Feb. 2.
Smokeless powder grains and making same. W. O. Baker. 2,668,132, Feb. 2.
Snowplow and means for coupling the same to pusher trucks. F. H. Giesdahl. 2,667,708, Feb 2.
Solids-gas contacting. R. D. Morse and E. F. von Wettberg, Jr. 2,667,706, Feb. 2.

Sonic system for augmenting the extraction of oil from oil bearing strata. A. G. Bodine, Jr. 2,667,932, Feb. 2.
Spindle assembly with inserts, Cotton picker. A. C. Voigt. 2,667,725, Feb. 2.
Spindle mounting. D. G. Soussloff, and H. H. Wormser. 2,668,087, Feb. 2.
Spindle with barbed inserts, Cotton picker. H. O. Vogel. 2,667,726, Feb. 2.
Spinning reel. O. H. Campbell. 2,668,024, Feb. 2.
Spirit level bracket. C. H. Dunn. 2,667,704, Feb. 2.
Sponge iron, producing. F. W. de Jahn. 2,668,105, Feb. 2.
Sponge material and the product resulting therefrom, making a. H. G. Hammon. 2,668,153, Feb. 2.
Spray gun, Double jet. H. C. Kirchner. 2,668,083, Feb. 2.
Spraying and dusting machine. G. W. Daugherty. 2,667,717, Feb. 2.
Spring group. R. B. Cottrell and A. T. Richardson, Jr. 2,668,050, Feb. 2.
Spring utilizing a compressible solid. P. H. Taylor. 2,668,049, Feb. 2.
Sprinkler system, Underground. M. E. Snoddy. 2,668,078, Feb. 2.
Sprocket chain. H. W. Hapman. 2,667,790, Feb. 2.
Stabilization of silica sols with lithium hydroxide and product. R. K. Iler. 2,668,149, Feb. 2.
Stabilization of sulfone resins. C. Roney. 2,668,160, Feb. 2.
Staple supporting slide for stapling machines, Removable. S. Segal. 2,667,638, Feb. 2.
Stapling machine. H. W. Marano. 2,667,637, Feb. 2.
Starting system for gas turbine engines. A. A. Kuzmitz. 2,667,742, Feb. 2.
Steering apparatus. A. W. Kumpf and T. A. Harvey. 2,667,746, Feb. 2.
Sterilizing machine, Book. M. Eltinge. 2,667,672, Feb. 2.
Stocking and making same, Circular knit. J. M. Allen. 2,667,774, Feb. 2.
Stool and cabinet, Combined. C. R. Cornick. 2,667,658, Feb. 2.
Storage and dispensing device, Egg. E. B. Derr. 2,668,090, Feb. 2.
Storm window. B. S. Wilson. 2,667,670, Feb. 2.
Strainer, Paint. M. Weidner. 2,667,976, Feb. 2.
Strainer, Self-cleaning. R. V. Seaholm. 2,667,975, Feb. 2.
Strand tension control mechanism. L. G. Holt. 2,668,019, Feb. 2.
Supplying and cooling rocket type combustion chambers, Means for. R. H. Goddard. 2,667,740, Feb. 2.
Surgical splint, Prefabricated subdividable. L. A. Smyth. 2,667,868, Feb. 2.
Surveying instrument. A. L. Baker. 2,667,693, Feb. 2.
Switch: *See*—
Liquid switch.
Resettable switch.
Rotary multiple selector switch.
Waveguide switch.
Switch. W. C. Tregoning. 2,668,204, Feb. 2.
Switch and system. L. L. Nagel. 2,668,249, Feb. 2.
Switch mechanism for pressure-type electrically heated sterilizer. J. W. Spradling and P. L. Engler. 2,668,224, Feb. 2.
Switch operated positioning system, Variable. M. D. Bennett. 2,668,263, Feb. 2.
Switching of television receivers, Automatic. E. W. Chapin. 2,668,193. Feb. 2.
Synchronizer. L. A. Bixby. 2,667,955, Feb. 2.
Syringe unit. A. E. Smith. 2,667,872, Feb. 2.
Table: *See*—
Folding table.
Tampon applicator assembly conditioning method and apparatus. J. M. Graef, K. J. Harwood, and R. N. Sabee. 2,667,666, Feb. 2.
Tape, Wallboard. P. Christman. 2,667,822, Feb. 2.
Tape winding. L. S. Whitson, M. G. Tometz, and B. G. Ferlaak, Jr. 2,668,023, Feb. 2.
Telegraph signal distortion indicating and measuring device. S. I. Cory. 2,668,192, Feb. 2.
Television, Color. J. G. Reddeck. 2,668,189, Feb. 2.
Television gamma test method and apparatus. R. S. Naslund. 2,668,188, Feb. 2.
Television image pickup system. G. C. Sziklai. 2,668,190, Feb. 2.
Testing machine, Brake lining. H. B. Barrett. 2,667,781, Feb 2.
Tetradecylamine salt of O-phenylphenol. J. Winkler. 2,668,136, Feb. 2.
Textile printing water-in-oil emulsions having as the oil phase a thermoplastic resin plastisol emulsified in a thermosetting resin lacquer. E. F. Armatys. 2,668,159, Feb. 2.
Thallium activated calcium phosphate phosphor containing aluminum. F. A. Kröger, and J. van den Boomgaard. 2,668,148 Feb 2.
Thermoplastic composition plasticized with monopropyl dixylyl phosphate. W. B. Horback, F. Berardinelli, and W. D. Palst. 2,668,119, Feb. 2.
Thread chaser and chaser assembly. T. W. Barnes. 2,667,651, Feb. 2.
Time-piece, Self-winding. A. Gazda. 2,667,737, Feb. 2.
Timer, Interval. K. M. Kiel. 2,667,736, Feb. 2.
Timer, Two-speed. E. J. Doyle. 2,667,921, Feb. 2.
Timing light control for oscillographs and the like. W. W. Miller. 2,667,812, Feb. 2.
Tire chain holder. M. Givens. 2,667,907, Feb. 2.
Toaster, Automatic. L. J. Koci. 2,667,828, Feb. 2.
Tool: *See*—
Bicycle fork straightening tool.
Magnetic fishing tool.
Toolholder. F. H. Clarkson. 2,667,687, Feb. 2.
Tool setting gauge. K. F. Zumkeller. 2,667,703, Feb. 2.
Tooth cleaning device having absorbent laminations. G. C. Halford, Jr. 2,667,655, Feb. 2.
Toothpaste tube having a hollow head with a cap fitted thereon for controlling dispensing. E. M. and B. F. Hammond. 2,667,992, Feb. 2.
Torque transmitting coupling. H. E. and M. F. Winkler. 2,667,768, Feb. 2.
Total control mechanism for accounting machines. W. A. Anderson. 2,668,011, Feb. 2.
Toy and voice therefor, Compressible sound producing. J. H. Wilhelm. 2,667,718, Feb. 2.
Toy watch. A. G. Eichholz. 2,667,738, Feb. 2.
Tractor attachment for reforming windrows. H. Nerness. 2,667,731, Feb. 2.
Trailer with demountable hydraulic lift, Vehicle. W. D. Drummond. 2,668,062, Feb. 2.
Transformer for high-tension mains, Voltage. H. Schneider. 2,668,274, Feb. 2.
Transmitter, Fluid pressure. O. C. Brewster. 2,667,886, Feb. 2.
Transmitter for radio seismic systems. O. C. Montgomery. 2,668,282, Feb. 2.
Trap: *See*—
Animal trap.
Fly trap.
Treating polyethylene and coated product. P. V. Horton. 2,668,134, Feb. 2.
Treatment of acidic mixtures and producta resulting therefrom. C. N. Zellner and F. Lister. 2,668,173, Feb. 2.
Treatment of water for the removal of silica. C. E. Joos. 2,668,144, Feb. 2.
Trimming attachment for sewing machines. J. Galkin. 2,667,850, Feb. 2.
Trocar. R. E. Stone. 2,667,682, Feb. 2.
Truck, Industrial. H. D. Woughter. 2,667,985, Feb. 2.
Truck, Snubbed. E. J. Maatman and L. A. Lehrman. 2,667,845, Feb. 2.
Truck, Snubbed. L. F. Ramos. 2,667,844, Feb. 2.
Truck with self-contained refrigeration systems, Highway. L. T. Sellstrom. 2,667,761, Feb. 2.
Tube comprising a metal envelope and for use at very short wave-lengths, Discharge. E. G. Dorgelo. 2,668,256, Feb. 2
Tube of the cavity resonator type, Electric discharge. F. Coeterier. 2,668,257, Feb. 2.
Tuner for television receivers. E. J. H. Bussard. 2,668,198, Feb. 2.
Tuning system for wave-signal receivers. R. M. Nordby. 2,668,235, Feb. 2.
Turbine, Internal-combustion. F. D. Butler. 2,667,744, Feb. 2.
Turbocharger. A. J. Larrecq. 2,668,006, Feb. 2.
Two key cylinder lock. W. J. Opocensky. 2,667,785, Feb. 2.
Ultrasonic inspection device. H. E. Van Valkenburg. 2,667,780, Feb. 2.
Umbrella. V. M. Bruno and H. J. Wilson. 2,667,884, Feb. 2.
Unloading valve. J. A. Kanuch. 2,667,896, Feb. 2.
Unsaturated starch compounds and insoluble derivatives thereof. C. G. Caldwell and O. B. Wurzburg. 2,668,156, Feb. 2.
Upholstering machine. J. S. Kamborian. 2,667,908, Feb. 2.
Urea-formaldehyde primary alkylene diamine condensation products. W. R. McClellan. 2,668,155, Feb. 2.
Utensil for pastries, Combination baking and serving. C. E. McNutt. 2,667,829, Feb. 2.
Vacuum cleaner. A. H. Beede. 2,667,943, Feb. 2.
Vacuum control. J. K. Lund. 2,668,014, Feb. 2.
Vacuum regulating device for pipe line milkers. H. A. Heckendorf. 2,667,856, Feb. 2.
Valve: *See*—
Dry pipe valve.
Fluid pressure valve.
High and low pressure cutoff valve.
Hydraulic reducing valve.
Magnetically biased check valve.
Pressure-operated actuating and relief valve.
Pressurized container valve.
Regulating valve.
Relief valve.
Unloading valve.
Valve. N. I. Konwal. 2,668,034, Feb. 2.
Valve. H. W. Trevaskis. 2,668,035, Feb. 2.
Valve bag. T. L. Jones. 2,668,003, Feb. 2.
Valve for fluid operated lifts, Control. C. J. Smith and W. Esdale. 2,667,745, Feb. 2.
Valve for fluid pressure systems, Pilot controlled main. P. H. Gentzel. 2,667,892, Feb. 2.
Valve for pressurized dispensing containers, Dispensing. R. K. Boyer. 2,667,991, Feb. 2.
Valve for vehicle brake operating mechanisms, Follow-up. A. L. Lee. 2,667,888, Feb. 2.
Valve for well testing tools. M. O. Johnston. 2,667,927, Feb. 2.
Valve means, Automatic. T. Hoffacker. 2,667,887, Feb. 2.
Valve positioner, Pressure responsive. J. P. Henderson and J. C. Gall. 2,667,860, Feb. 2.

Valve with damping piston, Pressure relief. J. M. and F. H. Towler. 2,667,894, Feb. 2.
Vaporizable liquid electrode boiler. S. Livingstone. 2,668,225, Feb. 2.
Variable speed power transmission mechanism. H. McGill and H. W. T. Ireland. 2,667,794, Feb. 2.
Vehicle: *See*—
Remotely-controllable toy vehicle.
Self-propelled vehicle.
Walking vehicle.
Vehicle tow line. B. L. Thompson. 2,668,063, Feb. 2.
Vent mechanisms, Visible liquid level indicating nonspill. R. C. Castlen. 2,668,185, Feb. 2.
Vibrator device. S. Steurman. 2,667,749, Feb. 2.
Vitamin B_{12} elution from charcoal. S. W. Briggs, R. G. Denkewalter, and G. B. Hughey. 2,668,137, Feb. 2.
Voltage reducing device for welding transformers. C. P. Sonius. 2,668,273, Feb. 2.
Voltage regulating system. H. L. La Baume. 2,668,270, Feb. 2.
Voltage regulator. E. J. Groth, Jr. 2,668,272, Feb. 2.
Voltage regulator. J. R. Niles. 2,668,244, Feb. 2.
Waistband construction. I. J. Elman. 2,667,643, Feb. 2.
Walking vehicle. J. T. Tucker. 2,667,937, Feb. 2.
Warp tensioning bar for knitting machines. C. A. Hepp. 2,667,773, Feb. 2.
Washing apparatus. E. K. Clark. 2,668,091, Feb. 2.
Washing machine, Centrifugal floor. W. Engel. 2,667,652, Feb. 2.
Washing machine with end dump doors. O. E. Kling and J. P. Jorgenson. 2,667,777, Feb. 2.
Water-soluble films. C. W. Leaf and L. M. Liggett. 2,668,120, Feb. 2.
Wave energy polarization converter. S. B. Cohn. 2,668,191, Feb. 2.
Waveguide switch. A. H. Schooley. 2,668,276, Feb. 2.
Weighing balance. S. R. Green. 2,668,044, Feb. 2.
Wheel: *See*—
Resilient wheel.
Wheel equipped with disk brake. R. Lucien. 2,667,947, Feb. 2.
Wheel support for tandem disk harrows. A. E. W. Johnson and J. R. Orelind. 2,667,724, Feb. 2.
Wide-band phase shifting means. F. W. Frink. 2,668,238, Feb. 2.
Winding device, Side drawing. W. C. Hanse. 2,668,018, Feb. 2.
Winding natural and synthetic yarns, Process and means for. A. Nau-Touron. 2,667,734, Feb. 2.
Window construction. J. T. Cook and L. E. Willett. 2,667,669, Feb. 2.
Window construction. J. T. Cook and L. E. Willett. 2,667,671, Feb. 2.
Window construction. F. C. Osten, Sr. 2,667,668, Feb. 2.
Window control, Vent. W. A. Heidman. 2,667,659, Feb. 2.
Window fastener. H. W. Falk. 2,668,074, Feb. 2.
Windshield wiper. J. R. Oishei. 2,667,656, Feb. 2.
Windshield wiper. E. E. Sivacek. 2,667,657, Feb. 2.
Wiper for strings engaged in wells. G. R. Hunt. 2,667,929, Feb. 2.
Wire guide. J. Marcroft. 2,668,017, Feb. 2.
Wrench: *See*—
Adjustable break-through torque wrench.
Wrench construction. W. C. Eaves. 2,667,801, Feb. 2.
Wrist watch band and the like, Flexible. L. Rappaport. 2,667,994, Feb. 2.
Yarn handling device. C. E. Miller. 2,667,964, Feb. 2.
Yarn shipping core. C. K. Dunlap. 2,668,020, Feb. 2.
Yarn tensioning means, Auxiliary. C. A. Hepp. 2,667,772, Feb. 2.
Zinc, Production of. S. Robson and L. J. Derham. 2,668,047, Feb. 2.

CLASSIFICATION OF PATENTS

ISSUED FEBRUARY 2, 1954

NOTE.—First number = class, second number = subclass, third number = patent number

1— 3: 2,667,637
2,667,638
45: 2,667,639
2— 14: 2,667,640
84: 2,667,641
153: 2,667,642
236: 2,667,643
3— 1.2: 2,667,644
13: 2,667,645
4— 228: 2,667,646
5— 95: 2,667,647
97: 2,667,648
8— 106: 2,668,095
115.5: 2,668,096
9— 38: 2,667,649
10— 27: 2,667,650
111: 2,667,651
13— 16: 2,668,183
15— 93: 2,667,652
119: 2,667,653
215: 2,667,654
223: 2,667,655
245: 2,667,656
250: 2,667,657
265: 2,667,658
16— 140: 2,667,659
17— 44.1: 2,667,660
45: 2,667,661
18— 42: 2,667,662
55: 2,667,663
60: 2,667,664
19— 105: 2,667,665
144.5: 2,667,666
20— 4: 2,667,667
12: 2,667,668
52.2: 2,667,669
55: 2,667,670
69: 2,667,671
21— 76: 2,667,672
22— 57.2: 2,667,673
75: 2,667,674
23— 253: 2,668,097
24— 155: 2,667,675
160: 2,667,676
176: 2,667,677
253: 2,667,678
25— 41: 2,667,679
131.5: 2,667,680
26— 34: 2,667,681
27— 24: 2,667,682
28— 43: 2,667,683
75: 2,667,684
78: 2,667,685
29— 10: 2,667,686
103: 2,667,687
148: 2,667,688
148.4: 2,667,689
30— 10: 2,667,690
33— 32: 2,667,691
46: 2,667,692
72: 2,667,693
77: 2,667,694
85: 2,667,695
98: 2,667,696
105: 2,667,697
141.5: 2,667,698
148: 2,667,699
169: 2,667,700
172: 2,667,701
185: 2,667,702
2,667,703
207: 2,667,704
222: 2,667,705
34— 4: 2,667,706
163: 2,667,707
37— 42: 2,667,708
83: 2,667,709
98: 2,667,710
41— 10: 2,667,711
42— 77: 2,667,712
43— 22: 2,667,713
61: 2,667,714
85: 2,667,715
111: 2,667,716
148: 2,667,717
44— 7: 2,668,098
33: 2,668,099
44— 63: 2,668,100
46— 117: 2,667,718
150: 2,667,719
175: 2,667,720
206: 2,667,721
47— 62: Pl.Pt.1, 248
Pl.Pt.1, 219
48— 196: 2,668,101
49— 65: 2,667,722
52— 5: 2,668,102
53— 55: 2,667,723
55— 73: 2,667,724
56— 50: 2,667,725
2,667,726
95: 2,667,727
181: 2,667,728
341: 2,667,729
372: 2,667,731
376: 2,667,730
473.5: 2,667,732
57— 35: 2,667,733
67: 2,667,734
58— 4 2,667,735
21.13: 2,667,736
82: 2,667,737
106: 2,667,738
59— 79: 2,667,739
60— 35.6: 2,667,740
2,667,741
39.14: 2,667,742
39.28: 2,667,743
39.34: 2,667,744
52: 2,667,745
2,667,746
54.6: 2,667,747
61— 25: 2,667,748
36: 2,667,749
40: 2,667,750
69: 2,667,751
73: 2,667,752
62— 2: 2,667,753
2,667,754
2,667,755
3: 2,667,756
8: 2,667,757
89: 2,667,758
2,667,759
115: 2,667,760
117: 2,667,761
117.4: 2,667,762
117.7: 2,667,763
119: 2,667,764
140: 2,667,765
176: 2,667,766
64— 11: 2,667,767
2,667,768
66— 95: 2,667,769
2,667,770
96: 2,667,771
146: 2,667,772
2,667,773
179: 2,667,774
195: 2,667,775
68— 133: 2,667,776
144: 2,667,777
70— 150: 2,667,778
337: 2,667,785
71— 2.6: 2,668,103
2,668,104
73— 28: 2,667,779
67: 2,667,780
101: 2,667,781
149: 2,667,782
193: 2,667,783
247: 2,667,784
398: 2,667,786
74— 15.8: 2,667,787
110: 2,667,788
232: 2,667,789
245: 2,667,790
2,667,791
2,667,792
471: 2,667,793
752: 2,667,794
75— .5: 2,668,105
3: 2,668,106
74: 2,668,107
75— 177: 2,668,108
2,668,109
77— 65: 2,667,795
78— 17: 2,667,796
48: 2,667,797
81— 15: 2,667,798
17: 2,667,799
52.4: 2,667,800
58.3: 2,667,801
84— 95: 2,667,802
398: 2,667,803
87— 1: 2,667,804
88— 14: 2,667,805
2,667,806
17: 2,667,807
2,667,808
23: 2,667,809
31: 2,667,810
39: 2,667,811
61: 2,667,812
72: 2,667,813
89— 1: 2,667,814
14: 2,667,815
149: 2,667,816
172: 2,667,817
90— 5: 2,667,818
11: 2,667,819
2,667,820
92— 6: 2,668,110
21: 2,668,111
67: 2,667,821
93— 1: 2,667,822
79: 2,667,823
94— 45: 2,667,824
95— 6: 2,668,112
7: 2,668,113
11: 2,667,825
89: 2,667,826
99— 148: 2,668,114
154: 2,668,115
2,668,116
192: 2,668,117
282: 2,667,827
329: 2,667,828
429: 2,667,829
101— 4: 2,667,830
233: 2,667,831
378: 2,667,832
2,667,833
2,667,834
2,667,835
102— 20: 2,667,836
39: 2,667,837
70: 2,667,838
89: 2,667,839
103— 2: 2,667,840
50: 2,667,841
87: 2,667,842
105— 62: 2,667,843
197: 2,667,844
2,667,845
106— 39: 2,668,118
177: 2,668,119
189: 2,668,120
245: 2,668,121
298: 2,668,122
107— 1: 2,667,846
8: 2,667,847
110— 165: 2,667,848
112— 2: 2,667,849
122: 2,667,850
209: 2,667,851
113— 1: 2,667,852
50: 2,667,853
116— 28: 2,667,854
117— 11: 2,668,123
15: 2,668,124
18: 2,668,125
36: 2,668,126
55: 2,668,127
119—14.01: 2,667,855
14:44: 2,667,856
44: 2,667,857
52: 2,667,858
157: 2,667,859
121— 41: 2,667,860
2,667,861
121— 62: 2,667,862
124— 20: 2,667,863
126— 42: 2,667,864
263: 2,667,865
127— 30: 2,668,128
128— 24.1: 2,667,866
62: 2,667,867
87: 2,667,868
147: 2,667,869
173: 2,667,870
2,667,871
216: 2,667,872
272: 2,667,873
2,667,874
349: 2,667,875
129— 26: 2,667,876
131— 61: 2,667,877
235: 2,667,878
132— 56: 2,667,879
133— 2: 2,667,880
134— 6: 2,668,129
13: 2,668,130
131: 2,667,881
166: 2,667,882
176: 2,667,883
135— 20: 2,667,884
59: 2,667,885
136— 89: 2,668,184
178: 2,668,185
137— 84: 2,667,886
87: 2,667,887
115: 2,667,888
284: 2,667,889
458: 2,667,890
470: 2,667,891
473: 2,667,892
494: 2,667,893
514: 2,667,894
528: 2,667,895
614.11: 2,667,896
620: 2,667,897
685: 2,667,898
138— 27: 2,667,899
45: 2,667,900
142— 15: 2,667,901
143— 43: 2,667,902
47: 2,667,903
137: 2,667,904
146— 279: 2,667,905
148— 12.4: 2,668,131
150— 37: 2,667,906
152— 236: 2,667,907
154— 1.8: 2,667,908
2,667,909
30: 2,667,910
110: 2,668,132
126: 2,668,133
139: 2,668,134
155— 5.23: 2,667,911
14: 2,667,912
22: 2,667,914
182: 2,667,915
188: 2,667,913
194: 2,667,916
198: 2,667,917
158— 36.3: 2,667,918
53: 2,667,919
123: 2,667,920
161— 15: 2,667,921
164— 55: 2,667,922
59: 2,667,923
87: 2,667,924
125: 2,667,925
166— 1: 2,667,926
2,667,927
12: 2,667,928
16: 2,667,929
18: 2,667,930
2,667,931
20: 2,667,932
167— 51.5: 2,668,135
58: 2,668,136
81: 2,668,137
169— 17: 2,667,933
20: 2,667,934
170—135.74: 2,667,935
159: 2,667,936
174— 12: 2,668,186
153: 2,668,187
178— 5.4: 2,668,188
2,668,189
7.2: 2,668,190
69: 2,668,192
69.5: 2,668,193
179— 18: 2,668,194
22: 2,668,195
100.41: 2,668,196
107: 2,668,197
171: 2,668,198
180— 8: 2,667,937
9.1: 2,667,938
78: 2,667,939
181— 49: 2,667,940
183— 7: 2,667,941
2,667,942
37: 2,667,943
81: 2,667,944
188— 2: 2,667,945
59: 2,667,946
152: 2,667,947
234: 2,667,948
189— 34: 2,667,949
67: 2,667,950
78: 2,667,951
191— 25: 2,668,199
192— .07: 2,667,952
3.5: 2,667,953
18: 2,667,954
53: 2,667,955
195— 107: 2,668,138
196— 8: 2,668,139
18: 2,668,140
19: 2,668,141
50: 2,668,142
197— 2: 2,667,956
198— 21: 2,667,957
24: 2,667,958
33: 2,667,959
34: 2,667,960
56: 2,667,961
176: 2,667,962
178: 2,667,963
200— 1: 2,668,200
48: 2,668,201
61.05: 2,668,202
61.41: 2,668,203
68: 2,668,204
88: 2,668,205
2,668,206
103: 2,668,207
110: 2,668,208
114: 2,668,209
115: 2,668,210
115.5: 2,668,211
116: 2,668,212
2,668,213
117: 2,668,214
129: 2,668,215
137: 2,668,216
150: 2,668,217
201— 62: 2,668,218
203— 100: 2,667,964
204— 195: 2,668,143
206— 5: 2,667,965
16: 2,667,966
45.13: 2,667,967
65: 2,667,968
209— 34: 2,667,969
81: 2,667,970
320: 2,667,971
323: 2,667,972
210— 16: 2,668,144
63: 2,667,973
70: 2,667,974
152: 2,667,975
156: 2,667,976
213— 76: 2,667,977
214— 1: 2,667,978
8.5: 2,667,979
16.1: 2,667,980
21: 2,667,981
89: 2,667,982
95: 2,667,983
396: 2,667,984
214— 670: 2,667,985
215— 48: 2,667,986
216— 55: 2,667,987
219— 4: 2,668,219
34: 2,668,220
35: 2,668,221
2,668,222
2,668,223
38: 2,668,224
40: 2,668,225
47: 2,668,226
2,668,227
220— 46: 2,667,988
222— 56: 2,667,989
67: 2,667,990
82: 2,667,991
92: 2,667,992
394: 2,667,993
224— 4: 2,667,994
45: 2,667,995
46: 2,667,996
226— 51: 2,667,997
85: 2,667,998
88.1: 2,667,999
2,668,000
116: 2,668,001
129: 2,668,002
229— 62.5: 2,668,003
230— 26: 2,668,004
101: 2,668,005
116: 2,668,006
206: 2,668,007
233— 21: 2,668,008
235— 60.27: 2,668,009
60.31: 2,668,010
2,668,011
92: 2,668,012
136: 2,668,013
237— 8: 2,668,014
240— 1: 2,668,228
10.6: 2,668,229
48: 2,668,230
241— 207: 2,668,015
242— 3: 2,668,016
9: 2,668,017
18: 2,668,018
45: 2,668,019
46.2: 2,668,020
54: 2,668,021
55.2: 2,668,022
56: 2,668,023
84.5: 2,668,024
2,668,025
244— 52: 2,668,026
81: 2,668,027
82: 2,668,028
83: 2,668,029
102: 2,668,030
110: 2,668,031
246— 3: 2,668,231
248— 28: 2,668,032
358: 2,668,033
250— 17: 2,668,232
20: 2,668,233
2,668,234
2,668,235
27: 2,668,236
2,668,237
2,668,238
33: 2,668,239
36: 2,668,240
41.9: 2,668,241
2,668,242
43.5: 2,668,243
83.6: 2,668,244
2,668,245
237: 2,668,246
251— 32: 2,668,034
78: 2,668,035
252— 32.5: 2,668,145
33.4: 2,668,146
135: 2,668,147
301.4: 2,668,148
313: 2,668,149
321: 2,668,150
428: 2,668,151
254— 186: 2,668,036

255— 72: 2,668,037
260— 2.5: 2,668,152
2,668,153
6: 2,668,154
17.3: 2,668,155
17.4: 2,668,156
23: 2,668,157
25: 2,668,158
29.4: 2,668,159
45.85: 2,668,160
45.95: 2,668,161
78.3: 2,668,162
84.1: 2,668,163
87.5: 2,668,164
97.5: 2,668,165
141: 2,668,166
147: 2,668,167
224: 2,668,168
233.3: 2,668,169
270: 2,668,170
314.5: 2,668,171
388: 2,668,172

260— 452: 2,668,173
461: 2,668,174
465.2: 2,668,175
478: 2,668,176
488: 2,668,177
501: 2,668,178
545: 2,668,179
610: 2,668,180
642: 2,668,181
653: 2,668,182
261— 95: 2,668,038
262— 9: 2,668,039
263— 6: 2,668,040
21: 2,668,041
53: 2,668,042
264— 13: 2,668,043
265— 54: 2,668,044
63: 2,668,045
266— 15: 2,668,046
2,668,047
30: 2,668,048
267— 1: 2,668,049

267— 9: 2,668,050
58: 2,668,051
268— 64: 2,668,052
270— 68: 2,668,053
271— 2.6: 2,668,054
272— 68: 2,668,055
273— 43: 2,668,056
85: 2,668,057
274— 1: 2,668,058
4: 2,668,059
275— 2: 2,668,060
280— 35: 2,668,061
44: 2,668,062
415: 2,668,063
502: 2,668,064
282— 23: 2,668,065
285— 131: 2,668,066
286— 6: 2,668,067
11: 2,668,068
290— 36: 2,668,247
292— 1: 2,668,069
27: 2,668,070

292— 129: 2,668,071
165: 2,668,072
192: 2,668,073
241: 2,668,074
259: 2,668,075
336.3: 2,668,076
294— 65.5: 2,668,077
299— 60: 2,668,078
63: 2,668,079
2,668,080
69: 2,668,081
86: 2,668,082
112: 2,668,083
120: 2,668,084
302— 53: 2,668,085
307— 10: 2,668,271
107: 2,668,248
112: 2,668,249
156: 2,668,250
308— 132: 2,668,086
152: 2,668,087
309— 29: 2,668,088

310— 28: 2,668,251
311— 87: 2,668,089
312— 242: 2,668,090
270: 2,668,091
2,668,092
316: 2,668,093
313— 25: 2,668,252
174: 2,668,253
206: 2,668,254
231: 2,668,255
318: 2,668,256
315— 5: 2,668,257
2,668,258
97: 2,668,259
111: 2,668,260
317— 157: 2,668,261
234: 2,668,262
318— 19: 2,668,263
28: 2,668,264
143: 2,668,265
414: 2,668,266
466: 2,668,267

318— 474: 2,668,268
322— 17: 2,668,269
27: 2,668,270
323— 22: 2,668,272
60: 2,668,273
61: 2,668,274
324— 152: 2,668,275
333— 21: 2,668,191
98: 2,668,276
339— 52: 2,668,277
93: 2,668,278
103: 2,668,279
114: 2,668,280
128: 2,668,281
340— 15: 2,668,282
174: 2,668,283
237: 2,668,284
268: 2,668,285
343— 7.7: 2,668,286
112: 2,668,287
2,668,288
346— 73: 2,668,094

CLASSIFICATION OF DESIGNS

D 3—10: Des. 171,382
13: Des. 171,398
D 9— 2: Des. 171,424
D14— 3: Des. 171,427
30: Des. 171,394
Des. 171,395
D16— 2: Des. 171,429
D33— 1: Des. 171,426
D34— 2: Des. 171,386
Des. 171,399
4: Des. 171,430

D34— 5: Des. 171,401
Des. 171,431
15: Des. 171,390
Des. 171,414
D40— 1: Des. 171,384
Des. 171,385
D42— 7: Des. 171,411
8: Des. 171,397
D44— 9: Des. 171,421
Des. 171,422
15: Des. 171,372

D44—29: Des. 171,415
Des. 171,419
D45— 9: Des. 171,404
Des. 171,405
Des. 171,408
Des. 171,410
Des. 171,423
15: Des. 171,391
19: Des. 171,403
Des. 171,406
Des. 171,407

D45—19: Des. 171,409
Des. 171,425
D47— 7: Des. 171,396
D48—20: Des. 171,376
Des. 171,377
Des. 171,378
Des. 171,379
Des. 171,380
Des. 171,381
D54—12: Des. 171,375
Des. 171,387

D56— 4: Des. 171,383
D57— 1: Des. 171,412
D58— 8: Des. 171,373
Des. 171,374
10: Des. 171,388
Des. 171,389
D61— 1: Des. 171,413
D62— 4: Des. 171,392
D67— 3: Des. 171,393
D71— 1: Des. 171,402
D81—10: Des. 171,371

D81—25: Des. 171,418
D85— 2: Des. 171,420
D87— 3: Des. 171,416
D91— 1: Des. 171,428
3: Des. 171,417
D93— 4: Des. 171,400

U. S. GOVERNMENT PRINTING OFFICE: 0—1954

TRADE-MARKS

OFFICIAL GAZETTE, FEBRUARY 2, 1954

[VOL. 679. NO. 2]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 19

VEHICLES

Ser. No. 617,199. The S. E. Hyman Company, Fremont, Ohio. Filed Aug. 1, 1951. (Sec. 2f.)

HYMAN'S CUSTOM-BILT

No claim is made to exclusive rights to the use of the words "Custom-Bilt" for the goods in question, apart from the association in which these words appear, applicant reserving, however, all common law rights. Applicant claims ownership of Registration No. 244,355.

For Removable Textile Seat Covers for Automobiles.

Claims use since on or about Nov. 12, 1922.

Ser. No. 629,876. Willys-Overland Motors, Inc., Toledo, Ohio, assignor to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania. Filed May 17, 1952.

SHOOTING STAR

For Automobiles and Structural Parts Thereof.

Claims use since Mar. 7, 1952.

Ser. No. 634,785. William C. Hemenway, Lincolnville Beach, Maine. Filed Sept. 3, 1952.

BLUE LIGHTNING

For Small Boats and Designed for Outboard Motor Propulsion.

Claims use since June 1, 1950.

Ser. No. 641,183. General Motors Corporation, Detroit, Mich. Filed Jan. 23, 1953.

DELCO

For Shock Absorbers, Cushioning Devices—Namely, Suspensions; and Parts Thereof for Vehicles.

Claims use since June 12, 1946.

Ser. No. 641,322. North American Aviation, Inc., Los Angeles, Calif. Filed Jan. 26, 1953.

NAA

For Airplanes and Parts Thereof.

Claims use since Apr. 2, 1935.

Ser. No. 646,131. Hudson Motor Car Company, Detroit, Mich. Filed Apr. 29, 1953. (Sec. 2f.)

HUDSON

Applicant claims ownership of Registrations Nos. 111,825, 399,793, and others.

For Automobiles and Automobile Bodies.

Claims use since in or about July 1909.

Ser. No. 646,485. The Premier Autoware Company, Cleveland, Ohio. Filed May 5, 1953. (Sec. 2f as to "Autoware.")

AUTOWARE

Applicant claims ownership of Registration No. 571,424.

For Automotive Parts and Supplies—Namely, Bushings for Front End; Brackets for Mounting Horns and Running Boards; Wheel Brake Parts, Consisting of Shoe Guides, Drum Gaskets, Rollers, Shoe Guide Springs, Roller Pins and Guide Pins; Brake Cylinders and Parts Thereof; Brake Cables and Casings Therefor; Closure Caps for Radiator and Fuel Tank Openings; Drag Link Assembly Parts; Door and Deck Handle Assemblies and Parts Thereof; Fender Welts; Channels for Window Glass; Rubber Bumpers and Shock Absorbers; Moulding for Body Trim; Side-View Mirrors; Rubber Pads for Accelerator, Brake, Clutch and Starter Pedals; Regulators for Windows and Regulator Parts; Sun Visors; Steering Assembly Parts; Shackle Assembly Parts; Shock Absorbers and Parts Thereof; Tie Rod Assembly Parts; Windshield Wiper Arms and Blades; Wheel Weights; Accelerator Assembly Parts; Axle Assembly Parts; Fender Braces; Choke Assembly Parts; Hood Latch Assembly Parts; Curb Warn-

ers; Door Snubbers, Check Links and Parts Thereof; Door Latch Assembly Parts; Dust Plugs; Wheel Suspension Assembly Parts; Knobs for Control Rods and Levers; and Stabilizer Assembly Parts.

Claims use since Sept. 1, 1951, on the mark as shown; and since Jan. 1, 1946, as to the word "Autoware."

Ser. No. 652,518. Ford Motor Company, Dearborn, Mich. Filed Aug. 31, 1953. (Sec. 2f as to "Lincoln.")

Lincoln Continental

Applicant claims ownership of Registration No. 511,662.
For Motor Cars.
Claims use since Sept. 20, 1940.

Ser. No. 652,784. Mark IV, Inc., Oklahoma City, Okla. Filed Sept. 4, 1953.

MARK IV

For Air Conditioners for Vehicles and Parts Thereof.
Claims use since Jan. 28, 1953.

Ser. No. 652,909. Harry E. Weissberg, La Habra, Calif. Filed Sept. 8, 1953.

CHALLENGER

Applicant claims ownership of Registration No. 360,552.
For House and Camp Trailers.
Claims use since Feb. 19, 1938.

Ser. No. 653,763. Luther J Hughes, doing business as Hughes Trailer Company, Kenhorst, Reading, Pa. Filed Sept. 25, 1953. (Sec. 2f.)

HUGHES

For Commercial Trailers.
Claims use since Aug. 28, 1946.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 644,897. Carthage Mills Incorporated, Carthage, Cincinnati, Ohio. Filed Apr. 8, 1953.

VAY-BAR

For Coated Felt Base Material Used for Wall Covering.
Claims use since Feb. 27, 1953.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 590,343. American Communications Corporation, New York, N. Y. Filed Jan. 5, 1950. (Sec. 2f.)

American Communications

For Central Control Electric and Electronic Distribution Systems Comprised of Emergency Power Supply Equipment, Audio and Visual Burglar and Fire Indicating and Warning Alarms, and Radio and Television Receivers for Use in Hotel, Office, and Other Public Buildings.
Claims use since January 1936.

Ser. No. 609,397. Cory Corporation, operating under the name of Fresh'nd-Aire Company Division of Cory Corporation, Chicago, Ill. Filed Jan. 30, 1951.

Wall-aire

No registration rights to the word "Aire" are herein claimed apart from the mark in its entirety.
For Portable, Electrically Operated and Electrically Heated, Air Circulators Serving Also as Dryers for the Hands, Hair, and Clothes, and Adapted To Be Hung in Bathrooms and the Like.
Claims use since Jan. 5, 1951.

Ser. No. 623,843. Frank R. Mallalieu, doing business as Transelectric Manufacturing Company, Lower Oxford Township, Chester County, Pa. Filed Jan. 21, 1952.

Transelectric

For Telephones and Telephone and Intercommunication Apparatus Composed of Telephone Sets, Hand Sets, Intercommunication Boxes, Microphones, Amplifiers, Switches, Electric Relays, Electrical Cable Terminal Boxes, and Electric Wires and Cables Sold in Sets and Separately.
Claims use since Nov. 6, 1951.

Ser. No. 625,935. Wetta-Cure Company, Seattle, Wash. Filed Mar. 4, 1952.

WETTA-CURE

The word "Cure" is disclaimed separate and apart from the mark as shown.
For Electrical Signaling Device for Bed Wetting Consisting Essentially of Relatively Thin Flexible Metal Sheets and a Battery Operated Buzzer Adapted To Be Connected With Insulated Current Conducting Wire.
Claims use since Dec. 20, 1950.

Ser. No. 630,393. Demornay-Bonardi, Inc., Burbank, Calif. Filed May 28, 1952.



For Microwave Equipment—Namely, Tapered Transitions, "N" to Waveguide Transformers, Tube Mounts,

Straight Sections, Elbows, Rotating Joints, Twisted Sections, Bulkhead Flanges, Pressurizing Units, Crystal Mounts, Attenuators, Terminations, T's, Directional Couplers, Crystal Mixers, Phase Shifters, Variable Stub Tuners, and Fixed Shorts.
Claims use since Mar. 31, 1951.

Ser. No. 632,497. Zenith Radio Corporation, Chicago, Ill. Filed July 12, 1952.

TECHNIVISION

Applicant claims ownership of Registration No. 542,143.
For Radio and Television Receiving Sets and Parts Thereof.
Claims use since June 10, 1952.

Ser. No. 633,578. Edgar Gretener A. G., Zurich, Switzerland. Filed Aug. 7, 1952.

EIDOPHOR

Applicant claims ownership of Swiss Registration No. 142,324, dated Apr. 25, 1952.
For Electrical Apparatus for Use in Physics and Television—Namely, Radio and Television Receiving Sets, Transmitters, Projectors for Television and Also for Closed-Circuit Systems.
Claims use since Mar. 15, 1952, in commerce between Switzerland and the United States.

Ser. No. 633,579. Edgar Gretener A. G., Zurich, Switzerland. Filed Aug. 7, 1952.

Eidophor

Applicant claims ownership of Swiss Registration No. 142,323, dated Apr. 25, 1952.
For Electrical Apparatus for Use in Physics and Television—Namely, Radio and Television Receiving Sets, Transmitters, Projectors for Television and Also for Closed-Circuit Systems.
Claims use since Mar. 15, 1952, in commerce between Switzerland and the United States.

Ser. No. 633,990. Macon Electronics, Division of York Radio & Television Corp., Decatur, Ill. Filed Aug. 15, 1952.

HI-FI-LO-K

For Radio and Television Antennas.
Claims use since May 6, 1951.

Ser. No. 634,680. The Bridgeport Insulated Wire Co., Bridgeport, Conn. Filed Aug. 30, 1952.

QUICK-SOL

For Electrical Insulated Wire.
Claims use since on or about June 1, 1952.

Ser. No. 635,768. International Business Machines Corporation, New York, N. Y. Filed Sept. 25, 1952.

IBM

Applicant claims ownership of Registrations Nos. 529,943, 550,421, and 553,406.
For Radio Receivers, Radio Transmitters, Microphones, Headphones, Control Panels, Amplifiers, Selector Boxes, and Control Consoles, All Used as Parts of an Audio Communication Apparatus Designed Primarily To Facilitate Rapid Language Translations.
Claims use since 1945.

Ser. No. 637,852. Mueller Electric Company, Cleveland, Ohio. Filed Nov. 7, 1952. (Sec. 2f.)

CLAMPIPE

Applicant claims ownership of Registration No. 298,300.
For Ground Clamps for Electric Ground Contact.
Claims use since Aug. 1, 1929.

Ser. No. 642,063. Capehart-Farnsworth Corporation, Wilmington, Del., and Fort Wayne, Ind. Filed Feb. 11, 1953.

The Chicagoan

For Domestic Television Receiving Sets.
Claims use since May 1950.

Ser. No. 647,399. Enco Manufacturing Company, Chicago, Ill. Filed May 21, 1953.

ENCO TINY TITAN

For Magnetic Base Tools Comprising Magnifier Holders, Lamp Holders, and Test Indicator Holders.
Claims use since Mar. 2, 1953.

Ser. No. 649,546. Talking Windows, Inc., Columbus, Ohio. Filed June 29, 1953.

Talking Window

For Electronic Device Used in Connection With Window Displays of Merchandise Rendering Advertising Announcements to Passers-By, Which Unit Consists of Electronic Controllers, Amplifiers, and Reproduction Systems.
Claims use since May 5, 1953.

Ser. No. 649,558. Automatic Steam Products Corp., New York, N. Y. Filed June 30, 1953.

HOT SHOT

For Electric Steam Generators.
Claims use since June 18, 1953.

Ser. No. 649,908. Sherman Vacuum Equipment Company, Culver City, Calif. Filed July 6, 1953.

Sherman SHUR-VAC

"Sherman" is disclaimed apart from the mark as shown.
For Vacuum Cleaners.
Claims use since Jan. 7, 1949.

Ser. No. 649,918. Atlas Supply Company, Newark, N. J. Filed July 7, 1953.

ATLAS

PERMA-FUL PROTECTION

Applicant claims ownership of Registrations Nos. 223,187 and 298,350.
For Storage Batteries.
Claims use since June 9, 1953.

Ser. No. 650,011. Sprague Electric Company, North Adams, Mass. Filed July 8, 1953.

DIFILM

For Electrical Capacitors.
Claims use since June 24, 1953.

Ser. No. 650,012. Sprague Electric Company, North Adams, Mass. Filed July 8, 1953.

DURAMEG

For Electrical Resistors.
Claims use since Mar. 19, 1953.

Ser. No. 650,587. Frenchy Radio Manufacturing Company, Scranton, Pa. Filed July 21, 1953.

PARAYAGI

For Television Antenna.
Claims use since Jan. 15, 1953.

Ser. No. 650,963. The Wiremold Company, West Hartford, Conn. Filed July 27, 1953. (Sec. 2f.)

WIREDUCT

Applicant claims ownership of Registration No. 143,843.
For Non-Metallic Flexible Conduits.
Claims use since on or about Jan. 1, 1912.

Ser. No. 651,026. United States Rubber Company, New York, N. Y. Filed July 28, 1953.

USRUREX

For Electrical Cable.
Claims use since July 1953.

Ser. No. 651,046. General Cable Corporation, New York, N. Y. Filed July 29, 1953. (Sec. 2f.)

PEERLESS

Applicant claims ownership of Registration No. 309,420.
For Weatherproof and Insulated Electric Wires and Cables.
Claims use since 1913.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 622,181. Talon, Inc., Meadville, Pa. Filed Dec. 6, 1951.

TALONETTE

Applicant claims ownership of Registrations Nos. 243,746 and 516,701.
For Fictional Doll-Like Characters for Use as a Toy.
Claims use since Nov. 5, 1951.

Ser. No. 629,268. Veneko Tackle Co. Inc., Baltimore, Md. Filed May 6, 1952.

Royal Huntsman

For Archery Bows.
Claims use since in or about March 1952.

Ser. No. 630,697. Belknap Hardware and Manufacturing Company, Louisville, Ky. Filed June 4, 1952.

BLUE GRASS

For Artificial Bait, Fishing Floats, Fishing Sinkers, Fish Hooks, Swivels, Fishing Rods, Fishing Line, Fishing Leaders, Fishing Reels, Baseballs, Baseball Bats, Roller Skates, Children's Velocipedes, Children's Sidewalk Cycles, Bicycles (Less Than 14 Inches Wheel Diameter), Minnow Buckets, and Tackle Boxes.
Claims use since 1910.

Ser. No. 635,820. Du Barry Distributing Corp., Brooklyn, N. Y. Filed Sept. 26, 1952.

Prooted by Du Barry

Applicant disclaims the words "By Du Barry" as part of the trade-mark.
For Wigs for Dolls.
Claims use since June 4, 1952.

Ser. No. 639,658. Pulp Reproduction Company, Milwaukee, Wis. Filed Dec. 17, 1952.

Carry-Lite BREATHER

Applicant claims ownership of Registration No. 382,503.
For Live Bait Buckets.
Claims use since on or about Nov. 17, 1952.

Ser. No. 640,905. Bomber Bait Company, Gainesville, Tex. Filed Jan. 19, 1953.

Gimmick

For Artificial Fishing Lures.
Claims use since June 9, 1952.

Ser. No. 640,941. E. H. La Caille, doing business as Frontier Manufacturing Co., Los Angeles, Calif. Filed Jan. 19, 1953.

Frontier

For Construction Kits Primarily for Hobby Use by Teen-Age and Adult Groups, Containing Complete Scale-Size Parts for the Building of Various Miniature Early Western Vehicle Models.
Claims use since Sept. 5, 1945.

Ser. No. 641,439. Cortland Line Company, Inc., Cortland, N. Y. Filed Jan. 28, 1953. (Sec. 2f.)

THERM-SET

Applicant claims ownership of Registration No. 439,487.
For Fish Lines.
Claims use since on or about July 15, 1948.

Ser. No. 645,225. Irving Berger, doing business as Trimline Tackle Company, New York, N. Y. Filed Apr. 14, 1953.

TRIMLINE JR.

For Fishing Kit Comprising Rod, Reel, Lines, Floats, Hooks, Sinkers, and Leaders.
Claims use since May 29, 1952.

Ser. No. 645,979. B. F. Gladding & Company, Inc., South Otselic, N. Y. Filed Apr. 27, 1953.

DREADNAUGHT

For Fishing Lines.
Claims use since during August 1938.

Ser. No. 646,231. Pachinko Trading Company, New York, N. Y. Filed Apr. 30, 1953.

PACHINKO

The mark "Pachinko" is a fanciful word having no definite meaning, and is taken from the Japanese language.
For Mechanical Pin Ball Game.
Claims use since Mar. 27, 1953.

Ser. No. 648,077. Robert U. Bronson, Eugene, Oreg. Filed June 2, 1953.

Pnola

For Game Comprising a Gameboard Mounted on a Table, Game Pieces, and a Score Sheet.
Claims use since Feb. 15, 1953.

Ser. No. 648,121. McKinney Industries, Inc., Chester, Pa. Filed June 2, 1953.

Safe-t-glide

Applicant claims ownership of Registrations Nos. 513,922 and 571,376.
For Hobby Horses and Shoo Flys for Children.
Claims use since Jan. 5, 1953.

Ser. No. 650,751. Toyo Rayon Co., Ltd., Tokyo, Japan. Filed July 23, 1953.

Amilan

Applicant claims ownership of Japanese Registration No. 398,307, dated Apr. 28, 1951.
For Articles Used for Fishing—Namely, Fishing Lines, Fishing and Crabbing Nets, Rods, Lures, Fishing Flies and Reels; Rackets for Tennis, Squash, and Badminton and Strings Therefor; Tennis, Badminton, and Volley Ball Nets; Nets for Basket Ball Baskets; Nets for Socker and Hockey Goals.

Ser. No. 652,093. Bayshore Industries, Inc., Elkton, Md. Filed Aug. 21, 1953.

SUPER-TEX

For Toy Rubber Balloons.
Claims use since July 28, 1953.

Ser. No. 652,173. **Jeane L. Dixon, Washington**, D. C. Filed Aug. 24, 1953.



For Stuffed Animal-Like Toys.
Claims use since Aug. 20, 1953.

Ser. No. 652,971. The Production and Marketing Corporation, Newtown, Conn., assignor, by mesne assignments, to Production and Marketing Company, Bethel, Conn., a copartnership composed of Helen Brunot and James Brunot. Filed Sept. 9, 1953.

SCRABBLE

Applicant claims ownership of Registration No. 524,505.
For Scoring Devices and Turn-Tables Used in the Playing of Games and Board Games.
Claims use since Aug. 21, 1953.

Ser. No. 654,080. Superior Fabricators, Inc., Chicago, Ill. Filed Oct. 1, 1953.

SUPERIOR

JETS

No claim is made to the word "Superior" apart from the mark as shown, but applicant does not waive any existing rights or rights which may arise hereafter in the word "Superior."
For Swimming Sets, Comprising Swimming Goggles, or Swimming Masks, and Swimming Fins.
Claims use since Aug. 12, 1952.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 609,323. Stewart-Warner Corporation, Chicago, Ill. Filed Jan. 26, 1951.

REMOVALL

For Follower Plates for Lubricant Containers and Dispensers.
Claims use since Jan. 12, 1951.

Ser. No. 614,449. Richard H. McGahen, doing business under the fictitious name of Craftool Co., Los Angeles, Calif. Filed May 28, 1951. (Sec. 2f.)

CRAFTOOL

For Steel Hand Tools—Namely, Saddle Stamps, Swivel Cutters, Snap Setters, Edge Creasers, Lacing Chisels, Lacing Needles, Eyelet Setters, Gourmet Setters, Modeling Tools and Background Tools Used in Commercial and Hobby Work for Carving and Imprinting Designs on Leather Goods and Articles.
Claims use since Nov. 15, 1945.

Ser. No. 622,299. Gate City Steel Works, Inc., Omaha, Nebr. Filed Dec. 10, 1951.



The outline of the United States and the term "Midwest's" is disclaimed apart from the remainder of the composite mark.
For Farm Equipment, Comprising Loaders, Spreaders, Rakes, Discs, and Mowers.
Claims use since Sept. 1, 1951.

Ser. No. 628,770. M. John Manos, Evanston, Ill. Filed Apr. 26, 1952.

tidee-dipe

No claim is made to the exclusive use of the word "Tidee" apart from the mark shown in the drawing.
For Scraper Comprising a Straight Edge and a Handle for Removing Eliminations From Diapers.
Claims use since Dec. 15, 1951.

Ser. No. 643,457. Benchcraft, Inc., St. Louis, Mo. Filed Mar. 11, 1953.

POPSHOP

For Work Benches.
Claims use since Feb. 13, 1953.

Ser. No. 644,655. Pyles Industries, Inc., Detroit, Mich. Filed Mar. 9, 1953. (Sec. 2f.)

—TIP-SEAL→

For Viscous Liquid Flow Gun.
Claims use since during the fall of 1944.

Ser. No. 648,279. Automotive Materials Corporation, Detroit, Mich. Filed June 5, 1953.

AMCOR

For Polishing Discs of Fabric and Adapted for Use on or in Conjunction With Machinery.
Claims use since Dec. 1, 1945.

Ser. No. 650,480. Bostitch, Inc., Providence, R. I., and Pawcatuck, Stonington, Conn. Filed July 20, 1953.

B8

For Stapling Machines.
Claims use since Feb. 12, 1940.

Ser. No. 650,745. Sturtevant Mill Co., Boston, Mass. Filed July 23, 1953.

MICRONIZER

Applicant claims ownership of Registration No. 317,271.
For Machinery, Consisting of Machines for Disintegrating, Pulverizing, and Separating Raw Materials.
Claims use since Apr. 6, 1934.

Ser. No. 651,111. Lee Healey Company, Glendale, Calif. Filed July 30, 1953.

NEOVANE

For Rubber Impeller Pumps.
Claims use since Oct. 25, 1952.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 627,025. Welmaid Products, Inc., Chicago, Ill. Filed Mar. 25, 1952.



The words "Fabric Utilities" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 230,521.
For Ironing Table Pads and Covers, Sprinkling Shields, Pressing Cloths, Ironer Roll Covers, and Ironer Roll Pads.
Claims use since Jan. 2, 1930.

Ser. No. 634,404. Forse Equipment Corporation, Anderson, Ind. Filed Aug. 25, 1952.

Master

For Steam and Vacuum Pressing Machines for Commercial Use.
Claims use since Oct. 19, 1928.

Ser. No. 635,587. Cook Machinery Co. Inc., Dallas, Tex. Filed Sept. 22, 1952.

WASHETTE

For Laundry Washing Machines.
Claims use since 1946.

CLASS 25

LOCKS AND SAFES

Ser. No. 648,596. The Eagle Lock Company, Terryville, Conn. Filed June 11, 1953.

KROMITE

For Locks.
Claims use since Dec. 16, 1952.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 557,630. Rowe Manufacturing Co., Inc., Whippany, N. J. Filed May 22, 1948.

COINMASTER

For Combination Coin-Released Mechanisms and Change Makers.
Claims use since Dec. 4, 1947.

Ser. No. 620,332. The Armorlite Lens Company, Inc., Pasadena, Calif. Filed Oct. 23, 1951.



ARMORLITE

Applicant disclaims the term "Lite" and the representation of the lens, except when such term and representation are used in conjunction with the entire mark forming the subject matter of this application.
For Lenses, Goggles, Optical Prisms, Optical Mirrors, and Radiant Energy Lens Filters Made of Optical Resins.
Claims use since June 26, 1947.

Ser. No. 623,406. Electronic Tube Corporation, Wyndmoor, Pa. Filed Jan. 10, 1952.

electronic ETC tube corp.

The words "Electronic Tube Corp." are disclaimed.
For Electronic Instruments for Measuring Vibration, Strain, and Dynamic Stresses, Wide Band Amplifiers for Measuring Purposes, and Oscilloscopes.
Claims use since Nov. 30, 1950.

Ser. No. 633,365. Robert N. Hogsett, Jr., Hartsdale, N. Y. Filed Aug. 1, 1952.

MAGI-CALC

For Drilling and Reaming Chart Used To Derive Information Nomographically.
Claims use since June 14, 1952.

Ser. No. 633,686. Speedlight Center, New York, N. Y. Filed Aug. 9, 1952.

MIGHTY MIDGET

For Photographic Electric Flash Lighting Apparatus.
Claims use since September 1951.

Ser. No. 634,041. The Frederick Post Company, Chicago, Ill. Filed Aug. 16, 1952.

CUSTOM - MASTER

For Encased Sets of Drawing Instruments for Mechanical Drawing, Consisting of a Number of the Following Instruments—Dividers, Pen Compasses, Pencil Compasses, Ruling Pens, Bow Pens, and Bow Pencils.
Claims use since Mar. 31, 1952.

Ser. No. 634,188. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed Aug. 20, 1952.

VERIFAX

For Photocopying Apparatus, Sensitized Photographic Paper, and Thermometers.
Claims use since May 27, 1952.

Ser. No. 634,199. Kern & Co. Ltd., Aarau, Switzerland. Filed Aug. 20, 1952. (Sec. 2f.)

Kern AARAU

Applicant claims ownership of United States Registration No. 554,510, dated Feb. 5, 1952.

For Precision Drawing Instruments and Parts Thereof—Namely, Drawing Pens, Bow Pens, Bow Pencils, Bow Dividers, Sheath Dividers, Automatic Hatching Apparatus, Pricking Devices, Protractors, Set Squares, Bow Compasses, Spring Bow Compasses, Compasses With Wing, Engraver Compasses, Combination Compasses With Fixed Needle Points and With Detachable Legs, Beam Compasses, Reducing Compasses; Theodolites, Levelling Instruments, Binoculars, Prism Magnifying Glasses, Stroboscopes; Objective Lenses for Photographic and Cinematographic Apparatus; Polarimeters; and Apparatus for Microelectrophoresis for Use in Biochemistry, Physiology, and Organic Chemistry.

Claims use since Feb. 25, 1925, in Switzerland; and first used in commerce between foreign nations and the United States in 1925.

Ser. No. 634,776. Creighton and Partners Limited, London, England. Filed Sept. 3, 1952.

GROMAX

Applicant claims ownership of British Registration No. 696,878, dated Mar. 19, 1951.

For Electro-Mechanical Apparatus for Inspecting and Sorting Seeds, Grains, and Nuts According to Color.

Ser. No. 637,340. Vocaline Company of America, Inc., Old Saybrook, Conn. Filed Oct. 29, 1952.

Two-Timer

No claim is made to the exclusive right in the word "Timer" apart from the mark as shown.

For Motor Operated, Time Controlled, Electric Switches.
Claims use since Sept. 30, 1952.

Ser. No. 640,081. The Skyscope Company, Inc., New York, N. Y. Filed Dec. 27, 1952.

SKY-MASTER

For Astronomical Telescopes.
Claims use since Sept. 1, 1948.

Ser. No. 648,450. Weksler Thermometer Corporation, New York, N. Y. Filed June 8, 1953.

WETHERCO

For Temperature, Pressure, and Humidity Indicating, Recording, and Regulating Instruments.
Claims use since on or about November 1930.

Ser. No. 650,767. Bausch & Lomb Optical Company, Rochester, N. Y. Filed July 24, 1953.

G-15

For Sunglasses and Ophthalmic Lenses.
Claims use since Mar. 20, 1953.

Ser. No. 650,768. Bausch & Lomb Optical Company, Rochester, N. Y. Filed July 24, 1953.



For Job Standard Profile Templets for Evaluating Vision Tests.
Claims use since July 22, 1952.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 633,267. N. V. Gerofabriek, Zeist, Netherlands. Filed July 30, 1952.

GERO

Applicant claims ownership of Dutch Registration No. 109,372, dated June 16, 1951.

For Precious-Metal Ware—Namely, Aroma-Bottle Holders, Asparagus Racks, Baptising Fonts, Beakers, Biscuit Boxes, Bonbon Sets, Bottle Holders, Bottle Rings (Anti-Drip), Bottle Stands, Bread Trays, Butter Dishes, Cake Boxes, Cake Plates, Cake Stands, Candle Holders, Candle Sticks, Cheese Pins for Holding Cheese, Cheese Scoops, Cocktail Shakers, Coffee Pots, Collection Boxes, Collection Plates, Combs, Comb Trays, Communion Cups, Communion Sets, Compote Dishes, Condiment Sets, Covers for Dishes, Cream Jugs, Cruet Sets, Cruet Stands, Cups for Soup, Decorative Corks, Dinner Pushers for Babies, Doily Rings, Egg Cups, Finger Bowls, Fish Racks, Forks, Fruit Dishes, Garnishment Pins, Gravy Boats, Hair Brushes, Handles, Chafing Dishes, Holders, Holy-Water Jugs, Hot-Water Dishes, Hot-Water Jugs, Hot-Water Plates, Ice-Cream Cups, Ice-Cream Dishes, Ice Pails, Jam Jars, Jam-Jar Holders, Jars, Jugs, Knife Handles, Knife Rests, Knife Stands, Ladles, Meat Dishes, Meat Plates, Menu Holders, Milk Jugs, Mirrors, Mugs, Mustard Pots, Nail Buffers, Nail Cleaners, Napkin Stands, Numbers for Waiters, Number Broches, Offertory Sets, Oil and Vinegar Sets, Oyster-shell Clips, Pepper Boxes, Pepper Pourers, Pepper Screws, Percolators, Pickle Sets, Plates, Plates for Leavings, Pouring Corks, Powder Boxes, Prickers, Relish Dishes, Rests for Carvers, Sacramental-Wine Jugs, Salad Bowls, Salt Cellars, Salt Pourers, Sauce Boats, Sauce Pans, Sauce Tureens, Saucers, Serviette Rings, Serving Trays, Soufflet Dishes, Soup Tureens, Spirit Stoves, Spoon Cups, Spoons, Stands for Tea Strainers, Sugar Basins, Sugar Bowls, Sugar Casters, Sugar Dishes, Tea Balls, Tea Caddies, Tea Pots, Tea Strainers, Tea Trays, Toast Racks, Tongs, Tumbler Frames, Tumbler Stands, Vases, Vegetable Dishes, Vegetable Plates, Wax Boxes, Wine Coolers.

Ser. No. 637,651. Gemex Company, Union, N. J. Filed Nov. 5, 1952.

ADORATION

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since Oct. 22, 1952.

Ser. No. 648,104. L. Heller & Son, Inc., New York, N. Y. Filed June 2, 1953.

LA TAUSCA

Applicant claims ownership of Registrations Nos. 87,547 and 139,999.

For Pearls and Imitation Pearls, Strings of Pearls and Imitation Pearls, and Pearl and Imitation Pearl Bracelets, Brooches, Ear-Ornaments, Finger-Rings, Hair Ornaments, Lavallieres, Necklaces, Sautoirs, and Tie-Pins.
Claims use since July 20, 1939.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 628,963. Schwartz Manufacturing Company, Two Rivers, Wis. Filed Apr. 30, 1952.

SHINEMASTER

For Polishing Cloths.
Claims use since Mar. 21, 1952.

Ser. No. 654,897. Industrial Wiping Cloth Co., Inc., Long Island City, N. Y. Filed Oct. 16, 1953.

SUPERTEX

For Industrial Wiping Cloths.
Claims use since June 1946.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 632,574. Ranney Refrigerator Company, Greenville, Mich. Filed July 15, 1952.

tote tray

The word "Tray" is disclaimed apart from the mark as shown.

For Containers Removably Carried on the Inner Wall of the Door of a Domestic Refrigerator To Hold Comestibles Stored in Refrigerators.
Claims use since June 4, 1952.

Ser. No. 644,768. The Marley Company, Inc., Kansas City, Mo. Filed Apr. 6, 1953.

SPRATOWER

For Liquid Cooling Towers and Parts Thereof.
Claims use since Mar. 17, 1953.

Ser. No. 648,632. Thor Corporation, Chicago, Ill. Filed June 11, 1953.

Thor

Applicant claims ownership of Registrations Nos. 119,454, 119,537, and 361,760.

For Refrigerators.
Claims use since May 18, 1953.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 622,776. Hans Ingold, Luzern, Switzerland. Filed Dec. 22, 1951.

COMPACTUS

Applicant claims ownership of Swiss Registration No. 129,120, dated May 18, 1949.

For Storage Cabinets and Shelf Units Equipped With Rollers for Moving Same Along Track, and Platforms for Storage Cabinets and Shelf Units, All Said Goods Being Especially Designed for Industrial, Commercial, Library, and Similar Installations.

Ser. No. 640,549. Raymond D. Cooper and William P. Hoy, San Francisco, Calif. Filed Jan. 9, 1953.

QUICK-QUEST

For Adjustable Card Separator and Support Plates for Filing Drawers.

Claims use since Sept. 8, 1952.

Ser. No. 648,122. Bernard G. Mesberg, doing business under the firm name and style of B. G. Mesberg Co., New York, N. Y. Filed June 2, 1953.

PAVILION COLLECTION

The word "Collection" is disclaimed apart from the trade-mark as shown.

For Furniture Made of Metal and of a Combination of Metal and Wood—Namely, Tables, Serving Tables, Stands, Cabinets, Chairs, Stools, Couches, Benches, and Rockers.

Claims use since on or about Oct. 10, 1952.

Ser. No. 649,169. Meldan Company, Inc., Hyde Park (Boston), Mass. Filed June 22, 1953.

Meldan

For Bedroom, Dining Room and Living Room Furniture—Namely, Chairs, Upholstered Chairs, Tables, Beds, Bureaus, Commodes, Buffets, Cabinets, Desks, Wall Shelves, and Panel Screens.

Claims use since November 1944.

Ser. No. 650,164. Eugene of Los Angeles, Los Angeles, Calif. Filed July 13, 1953.

SHADORAMA

For Shadow Boxes.

Claims use since June 1, 1953.

CLASS 33

GLASSWARE

Ser. No. 646,024. Silvalyte, Inc., Brooklyn, N. Y. Filed Apr. 27, 1953.

STARLYTE

For Household and Decorative Glassware and Glass Tableware Wholly or Partially Covered With Non-Precious Metal Plating—Namely, Bowls, Candy Dishes, Coasters, Cocktail Shakers, Covered Dishes, Cream Pitchers, Drinking Glasses, Tumblers and Goblets, Gravy Bowls, Hollow Ware, Liquor and Wine Glasses, Pepper and Salt Shakers; Pitchers for Water, Lemonade and Iced Tea; Service Plates, Tea Pots, Vases.

Claims use since Oct. 6, 1952.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 619,230. Cleaver-Brooks Company, Milwaukee, Wis. Filed Sept. 26, 1951.

C-B Co.

For Steam Boilers, Water Heaters, Tank Car Heaters, Conversion Oil Burners, Oil Burning Heaters for Bituminous and Like Materials, and Parts Thereof.

Claims use since January 1947.

Ser. No. 623,416. Rodney Hunt Machine Co., Orange, Mass. Filed Jan. 10, 1952.

Turba-Film

For Apparatus for Evaporating and Concentrating Liquids—Namely, Thin Film Evaporators and Concentrators.

Claims use since Dec. 20, 1951.

Ser. No. 634,691. Hudson Engineering Corporation, Houston, Tex. Filed Aug. 30, 1952.

Solo-aire

For Air Cooled Heat Exchangers Designed To Cool a Fluid by Indirect Heat Exchange With Air.

Claims use since Nov. 15, 1951.

Ser. No. 637,023. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Filed Oct. 22, 1952. (Sec. 2f.)

Westinghouse

Applicant claims ownership of Registrations Nos. 103,016, 103,017, and others.

For Heating, Lighting, and Ventilating Apparatus, Supplies and Parts Therefor—Namely, Lighting Fixtures and Luminaires, Glass Globes, Coal Furnaces, and Boilers, Gas Furnaces and Boilers, Oil Furnaces and Boilers, Oil Burners for Furnaces and Humidifiers for Furnaces, Air Conditioners, Heaters, Heating and Cooling Coils, Dehumidifiers, Atmosphere Correcting Gas Converters for Heat-Treating Furnaces, Steam and Vapor Condensers, Stokers and Stoker Parts, Steam Condensers, Counterflow and Crossflow Heat Exchangers and Air Conditioners, Blower and Radiator Type Unit Heaters, Air Heaters for Furnaces and Drying and Conditioning Purposes, Drying and Conditioning Kilns, Ventilating and Exhaust Fans, and Steam Coils for Heating Purposes.

Claims use since during or about 1921.

Ser. No. 638,055. Automatic Draft & Stove Co., Inc., Lynchburg, Va. Filed Nov. 14, 1952. (Sec. 2f.)

ASHLEY

Applicant claims ownership of Registrations Nos. 375,369 and 503,888.

For Heating Systems for Flue-Curing of Tobacco of the Type Comprising a Wood-Burning Furnace, Flues, and Thermostatic Controls, Automatically Controlled Wood Burning Heaters, Brooder Stoves, Hot Water Heaters, and Wood Burning Circulators.

Claims use since Sept. 15, 1932.

Ser. No. 639,869. Cleaver-Brooks Company, Milwaukee, Wis. Filed Dec. 22, 1952.

For Steam Boilers, Water Heaters, Tank Car Heaters, Conversion Oil Burners, Oil Burning Heaters for Bituminous and Like Materials, and Parts Thereof.

Claims use since Dec. 10, 1951.

Ser. No. 641,315. John McNulty & Sons Co., Trenton, N. J. Filed Jan. 26, 1953.

FEED MASTER

The word "Feed" is hereby disclaimed apart from the mark as shown.

For Boiler Feed Units, Each Unit Comprising a Condensate Receiving Tank for Connection With a Steam Boiler and an Automatically Controlled Pump for Pumping Hot Condensate From the Tank and Any Additional Water Into the Boiler Necessary To Maintain a Predetermined Water Level Therein.

Claims use since Mar. 27, 1952.

Ser. No. 644,968. Ed Friedrich, Incorporated, San Antonio, Tex. Filed Apr. 9, 1953.

Applicant claims ownership of Registration No. 431,194. For Room Air Conditioner Units.

Claims use since July 1952.

Ser. No. 646,953. Remington Corporation, Auburn, N. Y. Filed May 13, 1953.

MOISTURE MAGNET

The word "Moisture" is disclaimed apart from the mark.

For Portable Electric Dehumidifiers.

Claims use since Apr. 20, 1951.

Ser. No. 647,292. Home Comfort Mfg. Co., Peoria, Ill. Filed May 19, 1953.

Cu-Po-Vent

The word "Vent" is disclaimed apart from the mark as shown.

For Prefabricated Cupola-Type Ventilators.

Claims use since Apr. 1, 1953.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 636,642. Kendall Controls Corporation, Waltham, Mass. Filed Oct. 15, 1952.

BELLOFRAM

That portion of the mark on which the word "Bellofram" is superimposed is disclaimed apart from the mark as shown.

For Long Stroke, Deep Convolution, Constant Area Diaphragms Used as Piston Seals and as Elements in Instruments To Prevent the Flow of Fluid.

Claims use since Sept. 24, 1952.

CLASS 37

PAPER AND STATIONERY

Ser. No. 641,813. Tension Envelope Corporation, Kansas City, Mo. Filed Feb. 5, 1953.

COIN POCKET REMITTANCE ENVELOPE

The words "Coin Pocket Remittance Envelope" are disclaimed apart from the mark as shown in the drawing. The illustration of the "coin" is fanciful.
For Mailing Envelopes.
Claims use since Sept. 1, 1952.

Ser. No. 648,177. International Paper Company, New York, N. Y. Filed June 3, 1953. (Sec. 2f.)

HARDIKRAFT

Applicant claims ownership of Registration No. 308,223.
For Kraft Paper.
Claims use since July 3, 1931, on the word "Hardikraft"; and since May 22, 1953, in the form shown.

Ser. No. 649,830. Scripto, Inc., Atlanta, Ga. Filed July 3, 1953.

FLUIDLEAD

For Pencils, Ball Point Pens, Refill Units for Ball Point Pens, and Erasers.
Claims use since May 12, 1953.

Ser. No. 650,614. Arvey Corporation, Chicago, Ill. Filed July 22, 1953.

Jet Pilot

For Mailing Envelopes.
Claims use since Mar. 25, 1953.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 644,065. Reproducta Co. Inc., New York, N. Y. Filed Mar. 23, 1953.

RR

For Greeting Cards, Religious Prints, and Art Prints.
Claims use since August 1940.

Ser. No. 648,658. The Film Council of America, Evanston, Ill. Filed June 12, 1953.

The Film Counselor

No claim is made for the word "Film" apart from the entire combination.
For Periodicals Issued From Time to Time.
Claims use since July 1949.

Ser. No. 648,975. Sarah Plummer Wiedemann, doing business as Sally Wilde, Plymouth Meeting, Pa. Filed June 17, 1953.

OUR GAL SAL SAYS:

For Newspaper Columns.
Claims use since Nov. 1, 1952.

Ser. No. 649,883. The Jay-Jay Corp., St. Louis, Mo. Filed July 6, 1953.

JUDO JOE

For Magazine Published Periodically.
Claims use since March 1953.

Ser. No. 651,628. Sara Winsborough, Miami Beach, Fla. Filed Aug. 10, 1953.

EMOTION in Color

For Newspaper Column.
Claims use since June 14, 1953.

CLASS 39

CLOTHING

Ser. No. 611,131. House of Worsted-Tex, Inc., Baltimore, Md., and Philadelphia, Pa. Filed Mar. 10, 1951.

Knit-tex Imperial

The applicant disclaims the word "Knit" alone and apart from the mark as shown. Applicant claims ownership of Registrations Nos. 102,961, 187,236, and others.
For Men's and Young Men's Suits, Coats, Vests, Trousers, Topcoats, and Overcoats.
Claims use since Oct. 1, 1914.

Ser. No. 630,782. Janie Juniors Coats & Suits Inc., New York, N. Y. Filed June 5, 1952.

Janie Juniors

The word "Juniors" is disclaimed apart from the mark as shown in the drawing.
For Misses' Coats and Suits.
Claims use since June 1947.

Ser. No. 632,295. Morris Feldstein & Son, Inc., New York, N. Y. Filed July 9, 1952.

KEYSTONE

For Men's, Women's, and Children's Leather Soles, Top Lifts, and Heels.
Claims use since June 1911.

Ser. No. 636,713. Vivien Kellems, Stonington, Conn. Filed Oct. 16, 1952.

SOFT SHOULDERS

For Women's Dresses of the Type Which Expose the Wearer's Shoulders.
Claims use since Sept. 13, 1952.

Ser. No. 638,563. MacLachlan Hats, Incorporated, South Norwalk, Conn. Filed Nov. 24, 1952. (Sec. 2f.)

CUSHION-VENTED

Applicant claims ownership of Registration No. 421,623.
For Men's Fur Felt and Men's Straw Hats.
Claims use since Oct. 27, 1944.

Ser. No. 639,590. Rich's Inc., Atlanta, Ga. Filed Dec. 16, 1952.

"Career Shop"

For Men's Suits, Overcoats, Top Coats, Sweaters, Slacks, Sport Coats, Outer and Under Shirts, Ties, Socks, Shoes, Handkerchiefs, Underwear, Pajamas, and Dress Gloves.
Claims use since May 1, 1952.

Ser. No. 639,871. Cohan & Roth, Incorporated, New York, N. Y. Filed Dec. 22, 1952.

Campilini

For Neckwear—Namely, Neckties for Men.
Claims use since Dec. 1, 1952.

Ser. No. 642,336. Alexander Bros. Company, Savannah, Ga. Filed Feb. 17, 1953.

WESTEX

The shading of the drawing represents only the lining on the labels.
For Overalls and Dungarees, i. e., Jeans.
Claims use since Feb. 6, 1953.

Ser. No. 642,706. Alex Steinberg, San Francisco, Calif. Filed Feb. 24, 1953.

Lorrie PRE-TEEN California

Applicant disclaims the words "Pre-Teen" and "California" apart from the mark as shown.
For Dresses for Pre-Teens, Sub-Teens, and Teens; and for Girls' Suits and Coats.
Claims use since Dec. 1, 1948.

Ser. No. 642,729. Bear Brand Hosiery Co., Chicago, Ill. Filed Feb. 25, 1953.

PARAFLEX JR.

No claim is made to the abbreviation "Jr." apart from the mark shown in the drawing.
For Children's Hosiery.
Claims use since Jan. 16, 1953.

Ser. No. 644,630. Peter Pan Foundations, Inc., New York, N. Y. Filed Apr. 2, 1953.

Freedom Ring

For Brassières.
Claims use since Mar. 20, 1953.

Ser. No. 646,341. Louis H. Wisan, doing business as Standard Glove Company, New York, N. Y. Filed May 1, 1953.



Apart from the mark as shown on the drawing, and only for the purpose of registration, the words "Preferred Gloves" and the map of the United States are disclaimed.
For Gloves, Made of Leather, or Fabric, or a Combination Thereof.
Claims use since Jan. 2, 1953.

Ser. No. 648,554. Murphy, Brill and Sahner, Inc., New York, N. Y. Filed June 10, 1953.

ELASTO SIZED

No claim is made to the word "Sized" apart from the mark shown in the drawing.
For Hosiery for Men, Women, and Children.
Claims use since Nov. 1, 1952.

Ser. No. 649,050. Universal Brassiere & Justrite Corset Co. Inc., New York, N. Y. Filed June 15, 1953.

SLIM-A-HIP

Applicant claims ownership of Registration No. 307,199.
For Corsets, Girdles, Corselets, and Brassières.
Claims use since Jan. 1, 1933.

Ser. No. 649,614. J. Schoeneman, Inc., Baltimore, Md. Filed June 30, 1953.

DUPRINI

For Coats, Vests, Trousers, Knickerbockers, Top Coats, and Overcoats for Men, Youths, and Boys.
Claims use since June 4, 1953.

Ser. No. 649,679. Jos. A. Wilner & Co., Washington, D. C. Filed July 1, 1953.

℞ Wil-Med

For Men's Suits.
Claims use since June 12, 1953.

Ser. No. 649,807. Michaels, Stern & Company, Incorporated, Rochester, N. Y. Filed July 3, 1953.

GLIMMAIRE

For Men's and Youths' Topcoats and Overcoats.
Claims use since June 4, 1953.

Ser. No. 650,246. Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Filed July 14, 1953.

HI-DULTWIST

For Ladies' Hosiery.
Claims use since July 1, 1953.

Ser. No. 650,373. Sidney J. Kreiss, Inc., New York, N. Y. Filed July 16, 1953.

Heart Throb

For Ladies' Hosiery.
Claims use since Apr. 25, 1949.

Ser. No. 650,379. Marlboro Shirt Company, Inc., Baltimore, Md. Filed July 16, 1953.

FABRILAN

For Dress, Negligee, and Sport Shirts; Slacks, Slack Suits, and Jackets for Men and Young Men.
Claims use since Apr. 15, 1953.

Ser. No. 650,629. Haggar Company, Dallas, Tex. Filed July 22, 1953.

Treasure Isle

For Men's Slacks.
Claims use since Sept. 19, 1952.

Ser. No. 650,706. Hanes Hosiery Mills Company, Winston-Salem, N. C. Filed July 23, 1953.

Electronic Stitch

For Ladies' Hosiery.
Claims use since July 3, 1953.

Ser. No. 650,723. Murphy, Brill and Sahner, Inc., New York, N. Y. Filed July 23, 1953.

"Kerry Krinkles"

For Hosiery for Men, Women, and Children.
Claims use since December 1952.

Ser. No. 650,729. Robins & Brode Co., Detroit, Mich. Filed July 23, 1953.

Lime-Lite

For Hosiery, Underwear, Polo Shirts, Bathing Trunks, and Sweaters, for Men, Women, Children, and Infants.
Claims use since May 1, 1953.

Ser. No. 650,864. Beautiful Bryans, Inc., Chattanooga, Tenn. Filed July 27, 1953. (Sec. 2f.)

ALWAYS A SHADE AHEAD

Applicant claims ownership of Registration No. 518,247.
For Hosiery.
Claims use since Jan. 23, 1948.

Ser. No. 650,925. The Nolde and Horst Company, Reading, Pa. Filed July 27, 1953. (Sec. 2f.)

THICK and THIN

For Men's Socks.
Claims use since July 1942.

Ser. No. 651,132. Claire B. Schwartz, Jenkintown, Pa. Filed July 30, 1953.

Claire Schwartz ORIGINAL

The word "Original" is disclaimed apart from the mark shown.
For Children's Dresses.
Claims use since Jan. 2, 1951.

Ser. No. 651,331. Glenhaven Ltd., Baltimore, Md. Filed Aug. 4, 1953.

GLENCRISP

For Women's Wearing Apparel—Namely, Dresses, Suits, Coats, and Skirts.
Claims use since July 14, 1953.

Ser. No. 651,408. The Lovable Brassiere Co., Atlanta, Ga. Filed Aug. 5, 1953.

ADD-VANTAGE

For Brassières.
Claims use since July 3, 1952.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 610,567. Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik, also named Koh-I-Noor, United Metalware Factories, National Corporation, Prague, Czechoslovakia. Filed Feb. 27, 1951.



Applicant claims ownership of Czechoslovakia Registration No. 104,699, dated May 14, 1913.
For Closures and Fasteners Made From Non-Precious Metals for Wearing Apparel—Namely, Buttons, Snap Fasteners, Buckles, Hook and Eye Fasteners, Shoe Rings; Crochet Hooks and Crochet Needles; Hand Knitting and Netting Needles; Mending and Darning Needles; Needles for Hand-Sewing; Bodkins; Thimbles; Combs; Collar Studs; Pins and Clips Made From Non-Precious Metals—Namely, Safety Pins, Hair Pins, Scarf Pins, Bobby Pins, Barrettes, and Hair Grips.

Ser. No. 650,289. Tip-Top Products Company, Omaha, Nebr. Filed July 14, 1953. (Sec. 2f.)

Hi Style

For Ring Comb.
Claims use since on or about Sept. 14, 1947.

Ser. No. 651,782. Scolding Locks Corporation, Appleton, Wis. Filed Aug. 13, 1953.

Midgies

For Bobby Pins.
Claims use since July 1, 1953.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 631,116. National Sure-Fit Quilting Co., Inc., New York, N. Y. Filed June 12, 1952.

Lifetime

For Quilted Mattress Pads and Protectors.
Claims use since 1920.

Ser. No. 633,802. United Elastic Corporation, Easthampton, Mass. Filed Aug. 12, 1952. (Sec. 2f.)

RUBBERSET

Applicant claims ownership of Registration No. 279,714.
For Elastic Fabric and Webbing.
Claims use since July 30, 1930.

Ser. No. 640,610. Carwan Woolen Corporation, New York, N. Y. Filed Jan. 12, 1953.

THE Carwan Blanket

Applicant disclaims the word "Blanket" apart from the mark as shown on the drawing. The drawing is lined for the color gold.
For Cashmere Blankets.
Claims use since Dec. 1, 1952.

Ser. No. 642,329. Wamsutta Mills, New Bedford, Mass. Filed Feb. 16, 1953.



The mark consists of the letter "W" with a bar extending across the top of the letter and a symbol of a heart positioned in the center of the bar above the latter. Applicant claims ownership of Registration No. 345,827.

For Bed Sheets, Pillow Cases, Towels, and Piece Goods of Cotton, Wool, and Synthetic Fibers.

Claims use since September 1951.

Ser. No. 645,434. Zoltan Rosenberg Co., New York, N. Y. Filed Apr. 16, 1953.

LA GALERE

For Textile Fabrics Made of Silk, Rayon, Cotton, Synthetic Fibers, and Mixtures Thereof.

Claims use since 1936.

Ser. No. 647,617. Golding Bros. Company, Inc., New York, N. Y. Filed May 25, 1953.

CHLOROPHRESH

For Piece Goods Made of Cotton, Silk, Rayon, Synthetic Fibers, and Combinations of Same.

Claims use since Apr. 3, 1953.

Ser. No. 650,101. The Gabsom Company, Inc., New York, N. Y. Filed July 10, 1953.

SHOWBOAT

For Cotton Textile Fabrics.

Claims use since June 23, 1953.

Ser. No. 650,580. Dan River Mills, Incorporated, Danville, Va. Filed July 21, 1953.

DANFIT

Applicant claims ownership of Registrations Nos. 428,517 and 435,334.

For Bed Sheets.

Claims use since June 5, 1953.

Ser. No. 650,785. Deering, Milliken & Co., Inc., New York, N. Y. Filed July 24, 1953.

baggy Willie

For Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers, and Combinations Thereof.

Claims use since June 25, 1953.

Ser. No. 650,786. Deering, Milliken & Co., Inc., New York, N. Y. Filed July 24, 1953.



For Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers, and Combinations Thereof.

Claims use since June 25, 1953.

Ser. No. 651,087. Beacon Manufacturing Company, Swannanoa, N. C. Filed July 30, 1953.

Beacon

Applicant claims ownership of Registrations Nos. 62,895, 99,536, and others.

For Blankets and Blanket Goods in the Piece, Made Wholly of Cotton, of Cotton and Rayon, of Cotton, Rayon, and Wool, or of Synthetic Fibers, or Combinations Thereof; Bed Comfortables, Including Jacquard; Eiderdown Piece Goods, and Traveling Rugs.

Claims use since April 1905.

Ser. No. 651,159. Dan River Mills, Incorporated, Danville, Va. Filed July 31, 1953.

JAMBALAYA

For Piece Goods of Cotton, Rayon, or Mixtures Thereof for Use in Making Garments.

Claims use since July 9, 1953.

CLASS 43

THREAD AND YARN

Ser. No. 642,220. Grove Silk Company, Dunmore, Pa. Filed Feb. 13, 1953.

GROVE DUL

The term "Dul" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 387,799, 514,416, and others.

For Yarns Composed of Either Natural or Artificial Fibers for Use in the Manufacture of Hosiery and Other Wearing Apparel Fabrics.

Claims use since Jan. 21, 1953.

Ser. No. 648,469. Beaunit Mills, Inc., New York, N. Y. Filed June 9, 1953.

BEMBERG

Applicant claims ownership of Registrations Nos. 295,298, 296,214, and others.

For Thread and Yarn.

Claims use since Dec. 24, 1928.

Ser. No. 648,470. Beaunit Mills, Inc., New York, N. Y. Filed June 9, 1953.

AMERICAN BEMBERG

LINTELLA

No claim is made to the word "American" apart from its use in connection with the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 298,625 and 299,627.

For Thread and Yarn.

Claims use since May 25, 1932.

Ser. No. 648,471. Beaunit Mills, Inc., New York, N. Y. Filed June 9, 1953.

AMERICAN BEMBERG

SUNSPUN

No claim is made to the word "American" apart from its use in connection with the mark as shown. Applicant claims ownership of Registration No. 298,624.

For Thread and Yarn.

Claims use since May 1, 1932.

Ser. No. 648,475. Beaunit Mills, Inc., New York, N. Y. Filed June 9, 1953.

CUPRAMOSE

Applicant claims ownership of Registrations Nos. 298,640, 297,708, and others.

For Thread and Yarn.

Claims use since July 7, 1924.

Ser. No. 651,366. Societe Anonyme La Soie, Paris, France. Filed Aug. 4, 1953.

MYSTERY

Applicant claims ownership of French Registration No. 415,762, dated Nov. 15, 1951.

For Thread and Yarn for Knitting, Darning, and Sewing.

Ser. No. 654,615. Threads, Incorporated, Gastonia, N. C. Filed Oct. 12, 1953.

SUNSPUN

For Sewing Thread.

Claims use since on or about Jan. 1, 1940.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 589,118. The Shotwell Mfg. Co., Chicago, Ill. Filed Dec. 9, 1949.



Applicant claims ownership of Registrations Nos. 266,825 and 268,418.

For Marshmallows.

Claims use since June 14, 1944.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

585,186. Insurance Company House Organ. Farm Bureau Mutual Automobile Insurance Company, Columbus, Ohio.
Filed June 5, 1950, Serial No. 598,580. Published Nov. 3, 1953. Class 38.

585,187. Mirror for Use in Practicing Golf Swing. Roger H. David, St. Paul, Minn.
Filed Nov. 18, 1950, Serial No. 606,599. Published Nov. 3, 1953. Class 22.

585,188. Model Airplane Kits and Parts Thereof for Assembly Into Model Airplanes for Use as a Hobby. Comet Model Hobbycraft, Inc., Chicago, Ill.
Filed Nov. 24, 1950, Serial No. 606,852. Published Nov. 10, 1953. Class 22.

585,189. Closures and Fasteners Made From Non-Precious Metals, Etc. Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik, also doing business under the name "Koh-I-Noor United Metal Ware Factories, National Corporation," Prague, Czechoslovakia.
Priority under Sec. 44(d). Czechoslovakian Registration No. 150,420, filed Jan. 13, 1951.
Filed May 12, 1951, Serial No. 613,816. Published Nov. 3, 1953. Class 40.

585,190. Vegetable Storage Bins, Fruit Storage Bins, Fruit and Vegetable Storage Bins, and Multiple Unit Fruit and Vegetable Storage Bins Constructed of Metal. Washington Steel Products, Inc., Tacoma, Wash.
Filed May 31, 1951, Serial No. 614,593. Published Nov. 10, 1953. Class 2.

585,191. Metallic Products of Manufacture Consisting of Cast, Fabricated, and Shaped Articles, Specifically Castings, Wire, Rod, Sheet, and Strip Material, Comprised of Aluminum Base Alloys. Acme Aluminum Alloys, Inc., Dayton, Ohio.
Filed June 4, 1951, Serial No. 614,679. Published Nov. 3, 1953. Class 14.

585,192. Instruments for Indicating, Recording, or Controlling Viscosity in Blending or Dilution Operations. Brookfield Engineering Laboratories, Inc., Stoughton, Mass.
Filed June 16, 1951, Serial No. 615,267. Published Aug. 11, 1953. Class 26.

585,193. Pieces or Lengths of Flat Ferrous Metal Having Ground Surfaces. American Saw and Manufacturing Company, Springfield, Mass.
Filed July 23, 1951, Serial No. 616,789. Published Apr. 28, 1953. Class 14.

585,194. Upholstered Sofas and Upholstered Chairs. Kroehler Mfg. Co., Naperville, Ill.
Filed July 23, 1951, Serial No. 616,797. Published Nov. 3, 1953. Class 32.

585,195. Lenses and Frames Insertable Within the Lens Rims of an Eyeglass Frame for Supporting Lenses Temporarily Upon Eyeglass Frames. Austin B. Belgard, Chicago, Ill.
Filed Oct. 17, 1951, Serial No. 620,084. Published Aug. 4, 1953. Class 26.

585,196. Textile Fabrics in the Piece of Cotton, Rayon, Acetate, Synthetic Fibers, and Blends Thereof. Dan River Mills, Incorporated, Danville, Va.
Filed Dec. 1, 1951, Serial No. 621,951. Published Nov. 10, 1953. Class 42.

585,197. Slide Rule for Computing Wages and Hours Worked for Workmen. Fred H. Higgins, Casper, Wyo.
Filed Dec. 28, 1951, Serial No. 622,936. Published Nov. 3, 1953. Class 26.

585,198. Slipcover Material and Upholstering Material Cut to Size for Slip-Covering or Upholstering of Chairs, Seats in the Nature of Furniture, Etc. Valliere Drapery & Slipcover Studio, Rochester, N. Y.
Filed Jan. 22, 1952, Serial No. 623,927. Published Nov. 10, 1953. Class 32.

585,199. Newspaper Features. Florence Ormand Miller, doing business as Florence Miller, Dallas, Tex.
Filed Jan. 23, 1952, Serial No. 623,974. Published Nov. 10, 1953. Class 38.

585,200. Optical Mirrors, Light Filters, Interference Filters for Filtering Out Spectral Ranges Including Ultra-Violet and Ultra-Red Light Ranges, and Anti-Glare Glasses. Geraetebau-Anstalt, Balzers, Liechtenstein.
Filed Feb. 9, 1952, Serial No. 624,740. Published Aug. 4, 1953. Class 26.

585,201. Objective Lenses. Bausch & Lomb Optical Company, Rochester, N. Y.
Filed Mar. 1, 1952, Serial No. 625,784. Published Aug. 4, 1953. Class 26.

585,202. Plastic Tubes (Used as Containers for Food). Transparent Package Company, Chicago, Ill.
Filed Mar. 1, 1952, Serial No. 625,833. Published Nov. 3, 1953. Class 2.

585,203. Lenses, Spectacles, and Sun Glasses. Delta Optical Co., Inc., New York, N. Y.
Filed Mar. 5, 1952, Serial No. 625,974. Published Aug. 4, 1953. Class 26.

585,204. Hydraulically Operated Combined Load-Lowering and Weighing Attachment for Hoists. Mefco Sales and Service Corp., Glendale, Calif.
Filed Mar. 10, 1952, Serial No. 626,211. Published Oct. 13, 1953. Class 26.

585,205. Binoculars. Fuji Photo Optical Co., Ltd., Omiya-shi, Saitama Prefecture, Japan.
Filed Mar. 15, 1952, Serial No. 626,506. Published Aug. 4, 1953. Class 26.

585,206. Ladies' and Girls' Undergarments and Intimate Wear—Namely, Nightgowns, Panties, Slips, Chemises, Pajamas, Bathrobes, Foot and Stocking Protectors. Sondra Undergarments Co. Inc., New York, N. Y.
Filed Apr. 7, 1952, Serial No. 627,708. Published Nov. 10, 1953. Class 39.

585,207. Plastic Bottles. Flexcel Container Company, Kansas City, Mo.
Filed Apr. 26, 1952, Serial No. 628,755. Published Nov. 3, 1953. Class 2.

585,208. Carbonated Water. The Shasta Water Company, San Francisco, Calif.
Filed May 2, 1952, Serial No. 629,127. Published May 26, 1953. Class 45.

585,209. Serving Wagons and Carts for Food and Beverages. The Kaymet Company, London England.
Filed May 5, 1952, Serial No. 629,207. Published Nov. 3, 1953. Class 32.

585,210. Hoods for the Head for Protecting Coiffures, Face Make-Up, and Clothes When Dressing. Helen F. Stefan, doing business as Helen Stefan, St. Paul, Minn.
Filed May 17, 1952, Serial No. 629,866. Published Nov. 10, 1953. Class 40.

585,211. Pocket and Table Cigarette Lighters. Presto Lighters Limited, Montreal, Quebec, Canada.
Filed May 19, 1952, Serial No. 629,913. Published Nov. 3, 1953. Class 8.

585,212. Photographic Lenses With Variable Focal Lengths and View Finders With Variable Focus. Societe d'Optique & de Mecanique de Haute Precision, Paris, France.
Priority under Sec. 44(d). French Registration No. 416,001, filed Nov. 22, 1951.
Filed May 20, 1952, Serial No. 629,965. Published Sept. 22, 1953. Class 26.

585,213. Safety Goggle Lenses and Safety Glass Lenses. Case Safety Products, Inc., Cleveland, Ohio.
Filed June 3, 1952, Serial No. 630,664. Published Aug. 4, 1953. Class 26.

585,214. Spectacle Cases Not Made of Precious Metal. Bausch & Lomb Optical Company, Rochester, N. Y.
Filed June 5, 1952, Serial No. 630,751. Published Aug. 4, 1953. Class 26.

585,215. Slide Rules Combined With Writing Implements. Arnold B. Ellison, doing business under the trade name and style of Device Development Company, New York, N. Y.
Filed June 10, 1952, Serial No. 630,998. Published Aug. 4, 1953. Class 26.

585,216. Roller Skates. Chicago Roller Skate Company, Chicago, Ill.
Filed June 11, 1952, Serial No. 631,048. Published Nov. 10, 1953. Class 22.

585,217. Industrial Beta Gauges Used in Measuring the Weight, Thickness, and Area of Sheet Materials. Industrial Nucleonics Corporation, Columbus, Ohio.
Filed June 24, 1952, Serial No. 631,667. Published Aug. 11, 1953. Class 26.

585,218. Sail Boats. Harold R. Turner, Ipswich, Mass.
Filed June 25, 1952, Serial No. 631,766. Published Nov. 3, 1953. Class 19.

585,219. Machines for Testing Caster, Camber, Toe-In, and Degree of Turning Radius of Automotive Vehicle Front Wheels. The Wheel-A-Matic Company of America, Inc., Franklin, N. H.
Filed June 26, 1952, Serial No. 631,834. Published Oct. 13, 1953. Class 26.

585,220. Artificial Fish Lures. Charles I. Burke, doing business under the assumed name Burke Flexo-Products Company, Traverse City, Mich.
Filed July 12, 1952, Serial No. 632,464. Published Nov. 3, 1953. Class 22.

585,221. Bare and Coated Welding Rods. American Brake Shoe Company, New York, N. Y.
Filed July 14, 1952, Serial No. 632,498. Published Nov. 3, 1953. Class 14.

585,222. Electrically Operated Cigarette Lighters. Galvanic Products Corporation, Valley Stream, N. Y.
Filed July 15, 1952, Serial No. 632,561. Published Nov. 3, 1953. Class 8.

585,223. Calipers and Micrometers. George Scherr Co., New York, N. Y.
Filed July 16, 1952, Serial No. 632,629. Published Aug. 4, 1953. Class 26.

585,224. Narrow Elastic Webbing. United Elastic Corporation, Easthampton, Mass.
Filed July 30, 1952, Serial No. 633,279. Published Nov. 10, 1953. Class 42.

585,225. Electrical Instruments for Detecting Flaws or Irregularities in Metallic or Conductive Objects, Etc. Magnaflux Corporation, Chicago, Ill.
Filed Aug. 1, 1952, Serial No. 633,371. Published Sept. 22, 1953. Class 26.

585,226. Electrical Instrument for Indicating the Surface Cleanness of Sheet Metal. Rohr Aircraft Corporation, Chula Vista, Calif.
Filed Aug. 14, 1952, Serial No. 633,946. Published Oct. 27, 1953. Class 26.

585,227. Toy Painting Kits, Said Kits Comprising Canvases, Brushes, Palettes, and Tubes of Paints in Various Colors. Ralph E. Grossman, doing business as Picture Craft Company, Decatur, Ill.
Original filed, act of 1946, Supplemental Register, Aug. 15, 1952; amended to application, Principal Register, Sept. 10, 1953, Serial No. 633,978. Published Nov. 10, 1953. Class 22.

585,228. Plastic Dishes for Table Use. Keystone Brass Works, Inc., Erie, Pa.
Filed Aug. 21, 1952, Serial No. 634,257. Published Nov. 3, 1953. Class 2.

585,229. Textile Fabrics in the Piece of Cotton, Rayon, Acetate, and Other Synthetic Fibers. Dan River Mills, Incorporated, Danville, Va.
Filed Aug. 22, 1952, Serial No. 634,301. Published Nov. 10, 1953. Class 42.

585,230. Woven Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers and Combinations Thereof for Use in the Manufacture of Wearing Apparel. Deering, Milliken & Co., Inc., New York, N. Y.
Filed Aug. 22, 1952, Serial No. 634,313. Published Jan. 13, 1953. Class 42.

585,231. Flexible Plastic Wall Covering. Armstrong Cork Company, Lancaster, Pa.
Filed Aug. 26, 1952, Serial No. 634,436. Published Nov. 3, 1953. Class 20.

585,232. Fertilizer. F. Marshall Smith, Reading, Pa.
Filed Sept. 4, 1952, Serial No. 634,867. Published Nov. 3, 1953. Class 10.

585,233. Textile Bags. Bag Service, Inc., Decatur, Ind.
Filed Sept. 9, 1952, Serial No. 635,021. Published Oct. 13, 1953. Class 2.

585,234. Synthetic Thread Filaments and Synthetic Yarn. Allied Chemical & Dye Corporation, New York, N. Y.
Filed Sept. 10, 1952, Serial No. 635,080. Published Nov. 3, 1953. Class 43.

585,235. Educational Card Game. Educational Cards, Inc., Detroit, Mich.
Filed Sept. 22, 1952, Serial No. 635,589. Published Nov. 3, 1953. Class 22.

585,236. Bound Books Containing Calculating Tables, Issued in a Series. Aktiebolaget Multi-Divi, Vikarbyn, Sweden.
Filed Sept. 26, 1952, Serial No. 635,802. Published Nov. 3, 1953. Class 38.

585,237. Laboratory Testing Apparatus for Accelerated Wear Testing of Fabrics and Other Flexible Materials for Aid in Determining Wear Resistance, Color Fastness, Strength, Shrinkage, and the Like. American Association of Textile Chemists and Colorists, Lowell, Mass.
Filed Sept. 26, 1952, Serial No. 635,803. CERTIFICATION MARK. Published Oct. 13, 1953. Class 26.

585,238. Aircraft Marker Beacon Receiver Including Direction-Indicating and/or Position-Indicating Means. Flite-Tronics, Inc., Burbank, Calif.
Filed Sept. 29, 1952, Serial No. 635,911. Published Oct. 27, 1953. Class 26.

585,239. Wheelbarrows and Lawn Carts. Green Thumb Products, Toledo, Ohio.
Filed Sept. 30, 1952, Serial No. 635,965. Published Nov. 3, 1953. Class 19.

585,240. Board Games Played With Movable Game Pieces. Wales Game Systems, Inc., Buffalo, N. Y.
Filed Sept. 30, 1952, Serial No. 635,986. Published Nov. 3, 1953. Class 22.

585,241. Collapsible Paperboard Bottle Carriers. The Interstate Folding Box Company, Middletown, Ohio.
Filed Oct. 1, 1952, Serial No. 636,016. Published Nov. 3, 1953. Class 2.

585,242. Thread. I. Fleischer & Sons, Cincinnati, Ohio.
Filed Oct. 8, 1952, Serial No. 636,354. Published Nov. 3, 1953. Class 43.

585,243. Fabrics Made of Cotton, Wool, and Synthetic Fibers. Harry Zeller-Churgin Corp., New York, N. Y.
Filed Oct. 8, 1952, Serial No. 636,398. Published Nov. 10, 1953. Class 42.

585,244. Cotton and/or Rayon Piece Goods and/or Combinations Thereof. M. Lowenstein & Sons, Inc., New York, N. Y.
Filed Oct. 15, 1952, Serial No. 636,646. Published Nov. 3, 1953. Class 42.

585,245. Snack Tables, Hanging Shelves, and Serving Carts. Rockline Mfg. Co. Inc., Brooklyn, N. Y.
Filed Oct. 21, 1952, Serial No. 636,943. Published Nov. 3, 1953. Class 32.

585,246. Insulated Bait Box. G & G Company, Perkiomenville, Pa.
Filed Oct. 29, 1952, Serial No. 637,308. Published Nov. 3, 1953. Class 22.

585,247. Paper Board Boxes and Cartons. Container Corporation of America, Chicago, Ill.
Filed Nov. 3, 1952, Serial No. 637,536. Published Nov. 10, 1953. Class 2.

585,248. Casting Metals and Metal Castings Such as Are Used in the Construction of Machinery, Engines, Motors, Compressors, Pumps, and Machine Tools, and Parts Thereof. The Vilter Manufacturing Co., Milwaukee, Wis.
Filed Nov. 19, 1952, Serial No. 638,339. Published Nov. 3, 1953. Class 14.

585,249. Slab Zinc. The New Jersey Zinc Company, New York, N. Y.
Filed Nov. 29, 1952, Serial No. 638,776. Published Nov. 10, 1953. Class 14.

585,250. Military Casket and Vault. Jull R. Goggins, Minneapolis, Minn.
Filed Dec. 18, 1952, Serial No. 639,098. Published Sept. 15, 1953. Class 2.

585,251. Paper Bags, Baskets, Bird Baths, Etc. Stern Brothers, N. Y.
Filed Dec. 15, 1952, Serial No. 639,492. Published Nov. 10, 1953. Class 2.

585,252. Paper Bags, Baskets, Bird Baths, Etc. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,509. Published Nov. 10, 1953. Class 2.

585,253. Piece Goods Composed of Wool, Worsted, Cashmere, Etc. John Kaye & Son (Huddersfield) Limited, Huddersfield, England.
Filed Dec. 17, 1952, Serial No. 639,649. Published Nov. 10, 1953. Class 42.

585,254. Merchandise Envelopes, Bags, and Cartons Made of Paper and Cardboard. The Standard Envelope Mfg. Co., Cleveland, Ohio.
Filed Jan. 21, 1953, Serial No. 641,097. Published Nov. 3, 1953. Class 2.

585,255. Photographic Film and Paper. Sovereign Film Co., New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,986. Published Aug. 11, 1953. Class 26.

585,256. Tape Measures. The Lufkin Rule Company, Saginaw, Mich.
Filed Feb. 13, 1953, Serial No. 642,232. Published Nov. 10, 1953. Class 26.

585,257. Stadimeters. John Warren Gillon, doing business under the name Gillon Products, San Mateo, Calif.
Filed Feb. 20, 1953, Serial No. 642,543. Published Oct. 13, 1953. Class 26.

585,258. Precision Chemical Feeders for Feeding Measured Quantities of Liquid Chemicals, and Parts Thereof. Infilco Incorporated, Tucson, Ariz.
Filed Feb. 24, 1953, Serial No. 642,655. Published Oct. 13, 1953. Class 26.

585,259. Kitchen and Dinette Chairs. Douglas Furniture Corporation, Chicago, Ill.
Filed Feb. 25, 1953, Serial No. 642,738. Published Nov. 3, 1953. Class 32.

585,260. Clips To Be Attached to Golf Bags for Holding Cigars, Cigarettes, Pipes, and Similar Elongated Smokers' Articles. Robert G. Dyer, Philadelphia, Pa.
Filed Feb. 25, 1953, Serial No. 642,746. Published Nov. 3, 1953. Class 8.

585,261. Cigars, Cigarettes, Smoking Tobacco, Chewing Tobacco, and Snuff. Brown & Williamson Tobacco Corporation, Louisville, Ky.
Filed Feb. 26, 1953, Serial No. 642,799. Published Nov. 3, 1953. Class 17.

585,262. Steel Office Furniture—Namely, Filing Cabinets, Desks, Tables, and Chairs. Peerless Steel Equipment Company, Philadelphia, Pa.
Filed Mar. 2, 1953, Serial No. 642,989. Published Nov. 3, 1953. Class 32.

585,263. Books, Booklets, Leaflets, Pamphlets, Magazines, and Articles, Etc. Nederlands Instituut voor de Publieke Opinie, also trading under the style of Instituut voor Marktverkenning, Amsterdam, Netherlands.
Filed Mar. 4, 1953, Serial No. 643,113. Published Nov. 3, 1953. Class 38.

585,264. Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures. The National Silk Company, Incorporated, South Coventry, Conn.
Filed Mar. 5, 1953, Serial No. 643,178. Published Nov. 10, 1953. Class 43.

585,265. Bedroom Furniture—Namely, Beds, Chests, Desk Chests, Chests on Chests, Dressers, Double Dressers, Vanities, Powder Tables, Night Stands, and Benches. American Manufacturing Concern, Falconer, N. Y.
Filed Mar. 9, 1953, Serial No. 643,263. Published Nov. 3, 1953. Class 32.

585,266. Bedroom Furniture—Namely, Beds, Chests, Desk Chests, Chests on Chests, Dressers, Double Dressers, Vanities, Powder Tables, Night Stands, and Benches. American Manufacturing Concern, Falconer, N. Y.
Filed Mar. 9, 1953, Serial No. 643,264. Published Nov. 3, 1953. Class 32.

585,267. Fire Resistant Safes. Protectall Safe Corp., Syracuse, N. Y.
Filed Mar. 9, 1953, Serial No. 643,369. Published Nov. 3, 1953. Class 25.

585,268. Assembly of Food Storage Bins Formed of Metal. Emco Porcelain Enamel Co., Inc., Port Chester, N. Y.
Filed Mar. 16, 1953, Serial No. 643,670. Published Nov. 10, 1953. Class 2.

585,269. Printing Type. Bauer Alphabets Inc., New York, N. Y.
Filed Mar. 17, 1953, Serial No. 643,753. Published Nov. 3, 1953. Class 14.

585,270. Bed Sheets and Pillow Cases. Erwin Mills, Inc., Durham, N. C.
Filed Mar. 23, 1953, Serial No. 644,022. Published Nov. 3, 1953. Class 42.

585,271. Fabric Lined Cases of Wood Covered With Real or Artificial Leather or Similar Material for Household Storage of Silverware. Eureka Manufacturing Company, Inc., Taunton, Mass.
Filed Mar. 24, 1953, Serial No. 644,105. Published Nov. 10, 1953. Class 2.

585,272. Grape Juice. Hines-Park Foods, Inc., Ithaca, N. Y.
Filed Mar. 24, 1953, Serial No. 644,116. Published Nov. 3, 1953. Class 45.

585,273. Ladies' Underwear—Namely, Slips and Petticoats. Manhattan Undergarment Co. Inc., New York, N. Y.
Filed Mar. 25, 1953, Serial No. 644,180. Published Nov. 3, 1953. Class 39.

585,274. Chairs. Marie-Designer, Inc., Hollywood, Calif.
Filed Mar. 30, 1953, Serial No. 644,428. Published Nov. 3, 1953. Class 32.

585,275. Ironing Board Covers. John Ritzenthaler, New York, N. Y.
Filed Mar. 31, 1953, Serial No. 644,519. Published Nov. 10, 1953. Class 24.

585,276. Foundation Garments—Namely, Girdles. The Strouse, Adler Company, New Haven, Conn.
Filed Apr. 1, 1953, Serial No. 644,576. Published Nov. 3, 1953. Class 39.

585,277. Steel in the Form of Wire, Strips, Bars, and Billets. The Carpenter Steel Company, Reading, Pa.
Filed Apr. 3, 1953, Serial No. 644,664. Published Nov. 10, 1953. Class 14.

585,278. House Organ Published Bimonthly. Norden Laboratories, Lincoln, Nebr.
Filed Apr. 6, 1953, Serial No. 644,779. Published Nov. 3, 1953. Class 38.

585,279. Women's, Misses', and Juniors' Dresses, Suits, Blouses, and Skirts. L. & D. Beilinson, Inc., New York, N. Y.
Filed Apr. 7, 1953, Serial No. 644,824. Published Nov. 10, 1953. Class 39.

585,280. Magazine. Bronze Ego Publishers, Inc., Chicago, Ill.
Filed Apr. 7, 1953, Serial No. 644,827. Published Nov. 3, 1953. Class 38.

585,281. Dimension Gauges. A. Capp & Son Limited, Crayford, Kent, England.
Filed Apr. 8, 1953, Serial No. 644,896. Published Sept. 22, 1953. Class 26.

585,282. Sun Glasses. Bachmann Bros., Inc., Philadelphia, Pa.
Filed Apr. 9, 1953, Serial No. 644,954. Published Sept. 22, 1953. Class 26.

585,283. Sun Glasses. Bachmann Bros., Inc., Philadelphia, Pa.
Filed Apr. 9, 1953, Serial No. 644,955. Published Sept. 22, 1953. Class 26.

585,284. Periodical Column or Feature. H. H. Schumacher, doing business as B-Z-B Honey Company, Alhambra, Calif.
Filed Apr. 10, 1953, Serial No. 645,076. Published Nov. 3, 1953. Class 38.

585,285. Moisture Indicators—Namely, Sticks of Porous Material Carrying a Chemically Treated Plastic Strip. Bruin Industries, Colorado Springs, Colo.
Filed Apr. 13, 1953, Serial No. 645,101. Published Nov. 3, 1953. Class 26.

585,286. Racks for Storage of Type Magazines. Arthur P. Bonekemper, doing business as Bonekemper Machine Service, Norristown, Pa.
Filed Apr. 13, 1953, Serial No. 645,284. Published Nov. 10, 1953. Class 32.

585,287. Women's and Girls' Dresses. Darlene Juniors, Incorporated, Decatur, Ill.
Filed Apr. 20, 1953, Serial No. 645,551. Published Nov. 3, 1953. Class 39.

585,288. Metal Drawer Cabinets. Aurora Equipment Company, doing business as Equipto, Aurora, Ill.
Filed Apr. 2, 1953, Serial No. 645,613. Published Nov. 3, 1953. Class 32.

585,289. Ladies' Gloves Made of Fabric Material. Lee Begman, Inc., New York, N. Y.
Filed Apr. 21, 1953, Serial No. 645,626. Published Nov. 3, 1953. Class 39.

585,290. One-Piece Paperboard Garment Box. Cornell Paperboard Products Co., Milwaukee, Wis.
Filed Apr. 22, 1953, Serial No. 645,698. Published Nov. 3, 1953. Class 2.

585,291. Hard Surface Linoleum Floor Covering. Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa., assignor to Congoleum-Nairn, Inc., Kearny, N. J., a corporation of New York.
Filed Apr. 17, 1953, Serial No. 645,761. Published Nov. 3, 1953. Class 20.

585,292. Bobby Pin Dispenser. Belisle's Pin-Whiz Co., Wichita, Kans.
Filed Apr. 24, 1953, Serial No. 645,859. Published Nov. 3, 1953. Class 40.

585,293. Yarns. Kahn and Feldman, Inc., New York, N. Y.
Filed Apr. 28, 1953, Serial No. 646,071. Published Nov. 10, 1953. Class 43.

585,294. Pyrophoric Cigar and Cigarette Lighters. World Merchandise Exchange & Trading Co. Inc., New York, N. Y.
Filed Apr. 29, 1953, Serial No. 646,191. Published Nov. 3, 1953. Class 8.

585,295. Braided and Woven Cotton and Wool Rugs. Weartex Rug Company, Oakland, Calif.
Filed Apr. 30, 1953, Serial No. 646,246. Published Nov. 3, 1953. Class 42.

585,296. Chairs. Jack S. Karpen, Inc., New York, N. Y.
Filed May 1, 1953, Serial No. 646,291. Published Nov. 3, 1953. Class 32.

585,297. Bedroom Furniture, Comprising Beds, Dressing Tables, Chairs, Night Stands, Bureaus, and Chests of Drawers. Los Angeles Period Furniture Manufacturing Company, Los Angeles, Calif.
Filed May 1, 1953, Serial No. 646,294. Published Nov. 3, 1953. Class 32.

585,298. Indicators in the Nature of Windowed Pipe Members for Indicating the Flow and Approximate Rate of Flow of Fluids Therethrough. Podbielniak, Inc., Chicago, Ill.
Filed May 1, 1953, Serial No. 646,311. Published Nov. 10, 1953. Class 26.

585,299. Greeting Cards and Printed Greeting Folders. Norcross, Inc., New York, N. Y.
Filed May 6, 1953, Serial No. 646,569. Published Nov. 3, 1953. Class 38.

585,300. Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof. D. B. Fuller & Co. Inc., New York, N. Y.
Filed May 7, 1953, Serial No. 646,611. Published Nov. 3, 1953. Class 42.

585,301. Dress Bags, Suit Bags, Comforter Bags, Bags With Shelves, Gown Bags, Shoe Bags, Rug Bags, Coat Bags, All Used for Storage Purposes. Protex Products Company, Inc., New York, N. Y.
Filed May 7, 1953, Serial No. 646,627. Published Nov. 10, 1953. Class 2.

585,302. Magazines. Junior Readers Guild, Inc., New York, N. Y.
Filed May 8, 1953, Serial No. 646,672. Published Nov. 3, 1953. Class 38.

585,303. Cigarette Lighters. Eberhard Tigges, doing business as Tigges Lighter Mfg. Co., San Francisco, Calif.
Filed May 8, 1953, Serial No. 646,696. Published Nov. 3, 1953. Class 8.

585,304. Welding Equipment—Namely, Safety Goggles, Goggle Lens, Welders' Helmets, and Arc Shield Lens. Virginia Welding Supply Company, Charleston, W. Va.
Filed May 8, 1953, Serial No. 646,702. Published Nov. 10, 1953. Class 26.

585,305. Monthly Publication Containing Items Principally of Interest to Applicant's Employees. The Garrett Corporation, Los Angeles, Calif.
Filed May 11, 1953, Serial No. 646,752. Published Nov. 3, 1953. Class 38.

585,306. Plastic Clothes Hampers. Gladwin Plastics Co., Atlanta, Ga.
Filed May 13, 1953, Serial No. 646,940. Published Oct. 27, 1953. Class 2.

585,307. Textile Fabrics of Cotton and Synthetic Fibres. La France Industries, Inc., Wilmington, Del., and New York, N. Y.
Filed May 15, 1953, Serial No. 647,078. Published Nov. 3, 1953. Class 42.

585,308. Cartoons or Newspaper Feature. New York Herald Tribune Inc., New York, N. Y.
Filed May 15, 1953, Serial No. 647,085. Published Nov. 10, 1953. Class 38.

585,309. Cartoons or Newspaper Feature. New York Herald Tribune Inc., New York, N. Y.
Filed May 15, 1953, Serial No. 647,086. Published Nov. 10, 1953. Class 38.

585,310. Cartoons or Newspaper Feature. New York Herald Tribune Inc., New York, N. Y.
Filed May 15, 1953, Serial No. 647,087. Published Nov. 10, 1953. Class 38.

585,311. Cartoons or Newspaper Feature. New York Herald Tribune Inc., New York, N. Y.
Filed May 15, 1953, Serial No. 647,088. Published Nov. 10, 1953. Class 38.

585,312. Cartoons or Newspaper Feature. New York Herald Tribune Inc., New York, N. Y.
Filed May 15, 1953, Serial No. 647,089. Published Nov. 10, 1953. Class 38.

585,313. Cartoons or Newspaper Feature. New York Herald Tribune Inc., New York, N. Y.
Filed May 15, 1953, Serial No. 647,090. Published Nov. 10, 1953. Class 38.

585,314. Cartoons or Newspaper Feature. New York Herald Tribune Inc., New York, N. Y.
Filed May 15, 1953, Serial No. 647,091. Published Nov. 10, 1953. Class 38.

585,315. Cartoons or Newspaper Feature. New York Herald Tribune Inc., New York, N. Y.
Filed May 15, 1953, Serial No. 647,092. Published Nov. 10, 1953. Class 38.

585,316. Woolen and Worsted Fabrics in the Piece. Leeds Ltd. Coats, Inc., New York, N. Y.
Original filed, act of 1946, Supplemental Register, May 26, 1953; amended to application, Principal Register, Aug. 19, 1953, Serial No. 647,700. Published Nov. 3, 1953. Class 42.

585,317. Corselettes. Blair Corset Co., Inc., Chicago, Ill.
Filed May 27, 1953, Serial No. 647,753. Published Nov. 10, 1953. Class 39.

585,318. Machines for Drying Textiles and Similar Fabrics and Parts Thereof for Replacement and Repair. Borg-Warner Corporation, Chicago, Ill.
Filed May 27, 1953, Serial No. 647,755. Published Nov. 10, 1953. Class 24.

585,319. Cotton Piece Goods. S. H. Kress and Company, New York, N. Y.
Filed May 27, 1953, Serial No. 647,781. Published Nov. 10, 1953. Class 42.

585,320. Piece Goods of Cotton and Synthetic Fibers. The Millville Manufacturing Company, Philadelphia, Pa.
Filed May 27, 1953, Serial No. 647,793. Published Nov. 10, 1953. Class 42.

585,321. Textile, Woven, Woolen Rugs and Carpets. Mohawk Carpet Mills, Inc., Amsterdam, N. Y.
Filed May 27, 1953, Serial No. 647,794. Published Nov. 10, 1953. Class 42.

585,322. Women's Apparel, Comprising Slips, Bloomers, Petticoats, Nightgowns, Pajamas, Chemises, Step-Ins, and Panties. Seamprufe Incorporated, New York, N. Y.
Filed May 27, 1953, Serial No. 647,814. Published Nov. 10, 1953. Class 39.

585,323. Women's Apparel, Comprising Slips, Bloomers, Petticoats, Nightgowns, Pajamas, Chemises, Step-Ins, Panties, and Hosiery. Seamprufe Incorporated, New York, N. Y.
Filed May 27, 1953, Serial No. 647,815. Published Nov. 10, 1953. Class 39.

585,324. Thread. The American Thread Company, New York, N. Y.
Filed May 28, 1953, Serial No. 647,829. Published Nov. 10, 1953. Class 43.

585,325. Textile Fabrics of Silk and Synthetic Fibers. Denis-Marcus, Inc., New York, N. Y.
Filed May 28, 1953, Serial No. 647,837. Published Nov. 3, 1953. Class 42.

585,326. Velvet and Pile Fabrics in the Piece, Made of Silk, Wool, Cotton, and Synthetic Fibers. Martin Fabrics Corporation, New York, N. Y., now by merger and change of name J. B. Martin Company.
Filed May 28, 1953, Serial No. 647,858. Published Nov. 3, 1953. Class 42.

585,327. Webbing Made of Wool, Silk, Cotton, Rayon, Artificial Fibers, and Mixtures Thereof. Martin Fabrics Corporation, New York, N. Y., now by merger and change of name J. B. Martin Company.
Filed May 28, 1953, Serial No. 647,864. Published Nov. 10, 1953. Class 42.

585,328. Metal Alloy Welding Rods. Union Carbide and Carbon Corporation, New York, N. Y.
Filed June 3, 1953, Serial No. 648,212. Published Nov. 3, 1953. Class 14.

585,329. Thread. The American Thread Company, New York, N. Y.
Filed June 5, 1953, Serial No. 648,277. Published Nov. 10, 1953. Class 43.

585,330. Paper Bags. International Paper Company, New York, N. Y.
Filed June 12, 1953, Serial No. 648,673. Published Nov. 10, 1953. Class 2.

585,331. Locks for Safes. The Mosler Safe Company, Hamilton, Ohio.
Filed June 15, 1953, Serial No. 648,772. Published Nov. 3, 1953. Class 25.

585,332. Trousers Creasers. Eberhardt Manufacturing Co., St. Louis, Mo.
Filed June 22, 1953, Serial No. 649,136. Published Nov. 10, 1953. Class 24.

585,333. Trailers of the House Variety. Payne Trailer Company, Gardena, Calif.
Filed June 22, 1953, Serial No. 649,178. Published Nov. 10, 1953. Class 19.

585,334. Liquid Bubble Solution Used by Children To Blow Bubbles. Manhattan Kreole Prod. Inc., doing business as Sani-Seal Labs., New York and Brooklyn, N. Y.
Filed July 27, 1953, Serial No. 650,910. Published Nov. 3, 1953. Class 22.

585,335. Doll. Charles Arliss, doing business as Premier Plastics Co., Brooklyn, N. Y.
Filed Aug. 5, 1953, Serial No. 651,381. Published Nov. 10, 1953. Class 22.

585,336. Dolls. Adanta Novelties Corp., New York, N. Y.
Filed Aug. 7, 1953, Serial No. 651,490. Published Nov. 3, 1953. Class 22.

585,337. Spinning Reel. Charles Garcia & Co., Inc., New York, N. Y.
Filed Aug. 11, 1953, Serial No. 651,653. Published Nov. 10, 1953. Class 22.

585,338. Fishing Reels. The Enterprise Manufacturing Company, Akron, Ohio.
Filed Aug. 12, 1953, Serial No. 651,696. Published Nov. 10, 1953. Class 22.

585,339. Fishing Reels. The Enterprise Manufacturing Company, Akron, Ohio.
Filed Aug. 12, 1953, Serial No. 651,697. Published Nov. 10, 1953. Class 22.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

585,340. (Class 21. Electrical Apparatus, Machines, and Supplies.) Sheldon Electric Co., Inc., Irvington, N. J. Original filed, act of 1946, Principal Register, May 19, 1949; amended to application, Supplemental Register, Nov. 20, 1953, Serial No. 579,138.

Sheldon

Applicant claims ownership of Registration No. 428,042.
For Cathode Ray Tubes.
Claims use since Apr. 15, 1949.

585,341. (Class 39. Clothing.) Fred D. Martin, doing business as Fred Martin Sales Company, Cleveland, Ohio, assignor to Wear-A-Blanket, Inc., Cleveland, Ohio, a corporation of Ohio. Original filed, act of 1946, Principal Register, Dec. 27, 1950; amended to application, Supplemental Register, Aug. 24, 1953, Serial No. 608,119.

Wear-a-Blanket

For Outer Sleeping Garment for Children in the Nature of Pajamas.
Claims use since Sept. 15, 1950.

585,342. (Class 39. Clothing.) Ohrbach's, Incorporated, New York, N. Y.; Newark, N. J.; and Los Angeles, Calif. Filed Mar. 28, 1951, Serial No. 611,912.

"A Business in Millions and a Profit in Pennies"

For Ladies', Misses', Children's, and Infants' Clothing, in One, Two and Three Piece Garments—Namely, Suits, Coats, Toppers, Jackets, Slacks, Jumpers, Dresses, Housecoats, Pinafores, Skirts, Aprons, Pajamas, Blouses, Sweaters, Lounging and Bath Robes, Scarves, Handkerchiefs, Shoes, Hosiery, Foundation Garments, Negligees and Ladies' Underwear of Silk, Cotton and Linen, Gloves of Fabric or Leather and/or a Combination Thereof and Hats and Bonnets for Women.
Claims use since on or about Nov. 1, 1930.

585,343. (Class 18. Medicines and Pharmaceutical Preparations.) The Fredenburgh-Hecht Company, Concord, Mass. Original filed, act of 1946, Principal Register, Oct. 12, 1951; amended to application, Supplemental Register, May 26, 1953, Serial No. 619,935.



The words "Hair Preparation" are disclaimed apart from the mark as shown. The drawing is lined for the colors red and gold.
For Liquid Medication for the Care and Treatment of the Hair.
Claims use since Sept. 1, 1950.

585,344. (Class 39. Clothing.) Shelburne Sportswear, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Dec. 29, 1951; amended to application, Supplemental Register, Sept. 8, 1953, Serial No. 623,014.

SHELBURNE

For Men's, Women's, and Children's Knitted Coats, Skirts, Blouses, Sweaters, and Shirts.
Claims use since Dec. 10, 1951.

585,345. (Class 39. Clothing.) Maidenform Brassiere Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 17, 1952; amended to application, Supplemental Register, Sept. 9, 1953, Serial No. 623,728.

UNDER COVER

For Brassières.
Claims use since Dec. 17, 1951.

585,346. (Class 39. Clothing.) Roy E. Champion, Jackson, Miss. Original filed, act of 1946, Principal Register, Feb. 1, 1952; amended to application, Supplemental Register, Oct. 22, 1953, Serial No. 624,392.

La Roy Originals

The word "Originals" is disclaimed.
For Ladies' Shoes.
Claims use since Sept. 1, 1951.

585,347. (Class 14. Metals and Metal Castings and Forgings.) Kester Solder Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Feb. 7, 1952; amended to application, Supplemental Register, Feb. 4, 1953, Serial No. 624,650.

SOLDERFORMS

For Metal Shapes of Solder of Low Fusing Point for Use in Electrically Conductive Assemblies and Systems.
Claims use since June 8, 1951.

585,348. (Class 39. Clothing.) Munsingwear, Inc., Minneapolis, Minn. Original filed, act of 1946, Principal Register, Mar. 1, 1952; amended to application, Supplemental Register, July 13, 1953, Serial No. 625,813.

for comfort and fit... it must be knit

For Men's and Boys' T-Shirts.
Claims use since Dec. 17, 1951.

585,349. (Class 39. Clothing.) Carmo Shoe Manufacturing Company, Union, Mo. Original filed, act of 1946, Principal Register, May 12, 1952; amended to application, Supplemental Register, Sept. 28, 1953, Serial No. 629,554.

De Angelo

For Women's Shoes.
Claims use since January 1951.

585,350. (Class 39. Clothing.) Archdale Manufacturing Co., Inc., High Point, N. C. Original filed, act of 1946, Principal Register, July 7, 1952; amended to application, Supplemental Register, Apr. 28, 1953, Serial No. 632,194.

THE Two-Seater PANTY

Applicant disclaims the exclusive right to the words "The" and "Panty" apart from the mark as shown.
For Ladies' and Girls' Panties.
Claims use since Mar. 17, 1952.

585,351. (Class 26. Measuring and Scientific Appliances.) Sarra, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, July 10, 1952; amended to application, Supplemental Register, June 29, 1953, Serial No. 632,393.

Vide-O riginal

For Motion Picture Film for Television Reproduction.
Claims use since June 2, 1952.

585,352. (Class 4. Abrasives and Polishing Materials.) Joseph Lachoff, doing business as JLCO Laboratories, Chicago, Ill. Original filed, act of 1946, Principal Register, July 26, 1952; amended to application, Supplemental Register, Oct. 30, 1953, Serial No. 633,109.

STEELUSTRE

For Stainless Steel and Chrome Wax Polish.
Claims use since Nov. 1, 1950.

585,353. (Class 39. Clothing.) Classic Plastics, Inc., New Hyde Park, N. Y. Original filed, act of 1946, Principal Register, Aug. 6, 1952; amended to application, Supplemental Register, Sept. 1, 1953, Serial No. 633,533.

AQUA-SHED

For Overshoes and Caps Made of Plastic Material for Men, Women, and Children.
Claims use since July 5, 1952.

585,354. (Class 21. Electrical Apparatus, Machines, and Supplies.) Macon Electronics, Division of York Radio & Television Corp., Decatur, Ill. Filed Aug. 18, 1952, Serial No. 634,101.

Musictape

For Combined Tape Recording, Disc Recording, P. A. System, and Phonograph Machines.
Claims use since Feb. 7, 1951.

585,355. (Class 40. Fancy Goods, Furnishings, and Notions.) H. Goodman & Sons, Inc., Jersey City, N. J., and New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 21, 1952; amended to application, Supplemental Register, Nov. 5, 1953, Serial No. 634,253.

CONTOUR

For Barrettes.
Claims use since May 26, 1952.

585,356. (Class 39. Clothing.) Veitel Hosiery Company, Leroy, N. Y. Original filed, act of 1946, Principal Register, Sept. 11, 1952; amended to application, Supplemental Register, Aug. 10, 1953, Serial No. 635,159.



For Hosiery for Women and Girls.
Claims use since Nov. 27, 1951.

585,357. (Class 39. Clothing.) The Black Manufacturing Company, Seattle, Wash. Original filed, act of 1946, Principal Register, Oct. 30, 1952; amended to application, Supplemental Register, Oct. 6, 1953, Serial No. 637,354.

Full Play

For Men's, Boys', and Ladies' Sport Shirts.
Claims use since Sept. 2, 1952.

585,358. (Class 39. Clothing.) Snug-Fit Foundations Company, New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 17, 1952; amended to application, Supplemental Register, Oct. 12, 1953, Serial No. 639,669.

EXPAND-O-BAND

For Brassières, Foundations, and Girdles.
Claims use since Oct. 1, 1952.

585,359. (Class 39. Clothing.) Hortex Manufacturing Co., Inc., El Paso, Tex. Original filed, act of 1946, Principal Register, Dec. 23, 1952; amended to application, Supplemental Register, Oct. 19, 1953, Serial No. 639,934.

RUFFTWILL

For Boys' Outerwear—Namely, Slacks, Jackets, and Shorts.
Claims use since Oct. 1, 1952.

585,360. (Class 38. Prints and Publications.) Garfield Publishing Co., Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 2, 1953; amended to application, Supplemental Register, Oct. 26, 1953, Serial No. 640,267.

appliance dealers REVIEW

For Monthly Publications.
Claims use since Dec. 7, 1951.

585,361. (Class 39. Clothing.) Ward Green Company, New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 13, 1953; amended to application, Supplemental Register, Nov. 6, 1953, Serial No. 645,209.

Compreso-Belt

For Girdles.
Claims use since October 1952.

585,362. (Class 39. Clothing.) Saks & Company, New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 21, 1953; amended to application, Supplemental Register, Sept. 11, 1953, Serial No. 645,675.

Tots Toggerie

Applicant claims ownership of Registration No. 171,904.
For Children's Dresses, Hats, Coats, Sweaters, and Suits.
Claims use since Jan. 1, 1917.

585,363. (Class 38. Prints and Publications.) Chicagoland Publications, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, May 6, 1953; amended to application, Supplemental Register, Nov. 4, 1953, Serial No. 646,523.

Mobile homes manufacturer and buyer's GUIDE

For Periodical.
Claims use since Nov. 1, 1952.

585,364. (Class 21. Electrical Apparatus, Machines, and Supplies.) Hartford Battery Corporation, Waltham, Mass. Filed July 15, 1953, Serial No. 650,305.

Aqua Full

For Storage Batteries and Parts Therefor.
Claims use since on or about June 9, 1950.

585,365. (Class 37. Paper and Stationery.) Gulf States Paper Corporation, Tuscaloosa, Ala. Filed July 24, 1953, Serial No. 650,801.

PINK PERFECTION

For High Wet Strength Wrapping Paper—Namely, Butchers Paper.
Claims use since on or about Dec. 8, 1949.

585,366. (Class 37. Paper and Stationery.) Gulf States Paper Corporation, Tuscaloosa, Ala. Filed July 24, 1953, Serial No. 650,802.

WHITE PERFECTION

For High Wet Strength Wrapping Paper—Namely, Butchers Paper.
Claims use since Feb. 1, 1949.

Service Marks

585,367. (Class 100. Miscellaneous.) Daniel T. Mosse, Pittsburgh, Pa. Original filed, act of 1946, Principal Register, Apr. 20, 1950; amended to application, Supplemental Register, Dec. 14, 1951, Serial No. 596,041.

MOSSE

MIRACLE METHOD OF ELECTROLYSIS

For Removal of Unwanted Hair from Human Bodies by Electrolysis.
Claims use since June 1946.

TRADE-MARK REGISTRATIONS RENEWED

41,980. ADNEPHRIN. Registered Feb. 2, 1904. Frederick Stearns & Co., Detroit, Mich. Re-renewed Feb. 2, 1954, to Winthrop-Stearns Inc., New York, N. Y., a corporation of Delaware. Hemostatic, Astringent, and Cardiac Stimulants. Class 18.

93,246. "BLUE RIBBON" AND DESIGN. Registered Aug. 26, 1913. Oakford and Fahnestock. Re-renewed Aug. 26, 1953, to The Oakford Company, Peoria, Ill., a corporation of Illinois. Canned Fruits, Berries, Vegetables, Sauer-Kraut, Etc. Class 46.

93,699. "HAWK" AND DESIGN. Registered Oct. 14, 1913. Davies & Meacham. Re-renewed Oct. 14, 1953, to The Patterson-Sargent Company, Cleveland, Ohio, a corporation of Ohio. Dry and Ready-Mixed Paints, Wall-Paints, Lacs, Stains, Enamels, Varnishes, and Fillers. Class 16.

93,700. "WHALE" AND DESIGN. Registered Oct. 14, 1913. Davies & Meacham. Re-renewed Oct. 14, 1953, to The Patterson-Sargent Company, Cleveland, Ohio, a corporation of Ohio. Dry and Ready-Mixed Paints, Wall-Paints, Lacs, Stains, Enamels, Varnishes, and Fillers. Class 16.

93,701. "WOLF" AND DESIGN. Registered Oct. 14, 1913. Davies & Meacham. Re-renewed Oct. 14, 1953, to The Patterson-Sargent Company, Cleveland, Ohio, a corporation of Ohio. Dry and Ready-Mixed Paints, Wall-Paints, Lacs, Stains, Enamels, Varnishes, Etc. Class 16.

93,702. "ZEBRA" AND DESIGN. Registered Oct. 14, 1913. Davies & Meacham. Re-renewed Oct. 14, 1953, to The Patterson-Sargent Company, Cleveland, Ohio, a corporation of Ohio. Dry and Ready-Mixed Paints, Wall-Paints, Lacs, Stains, Enamels, Etc. Class 16.

93,826. DELUXE. Registered Oct. 21, 1913. Collin Street Bakery, Corsicana, Tex., a corporation of Texas. Re-renewed Oct. 21, 1953. Fruit-Cake. Class 46.

94,101. NOBBY. Registered Nov. 4, 1913. Morgan & Wright, Detroit, Mich. Re-renewed Nov. 4, 1953, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Rubber Vehicle-Tires. Class 35.

95,076. CHALLENGE. Registered Feb. 3, 1914. Henry Disston & Sons, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Feb. 3, 1954. Saws. Class 23.

95,077. THE IMP. Registered Feb. 3, 1914. Henry Disston & Sons, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Feb. 3, 1954. Saws. Class 23.

95,747. ÉCLAT. Registered Mar. 10, 1914. Colgate & Co., New York, N. Y. Re-renewed Mar. 10, 1954, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Soaps and Soap Powders. Class 52.

95,969. "S. F. W. 1842" AND DESIGN. Registered Mar. 24, 1914. Stephen F. Whitman & Sons, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Mar. 24, 1954. Candy Confections. Class 46.

304,532. CUP-O-LUCK. Registered July 11, 1933. Aaron Weiser, doing business as Aaron Coffee Company, Philadelphia, Pa. Renewed July 11, 1953. Coffee and Tea. Class 46.

304,601. GLAMOUR. Registered July 11, 1933. American Glanzstoff Corporation. Renewed July 11, 1953, to North American Rayon Corporation, New York, N. Y., a corporation of Delaware. Thread and Yarn of Artificial Origin, Known as Rayon. Class 43.

304,752. "REFRIGERATING DATA BOOK, ETC. AND DESIGN. Registered July 18, 1933. The American Society of Refrigerating Engineers, New York, N. Y., a corporation of New York. Renewed July 18, 1953. Biennial Publication. Class 38.

304,886. "DRIFT" WITH HEAVY UNDERSCORE. Registered July 18, 1933. The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Renewed July 18, 1953. Sulfo Derivative of Higher Fatty Alcohol Having Cleansing and Detergent Properties. Class 52.

304,996. "CANARY BRAND" AND DESIGN LINED FOR BROWN AND YELLOW. Registered July 25, 1933. The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Renewed July 25, 1953. Red Oil. Class 6.

306,650. DUBOUCHETT. Registered Sept. 26, 1933. Eico Products Corporation, Chicago, Ill. Renewed Sept. 26, 1953, to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware. Cordials. Class 49.

306,909. SILVRGLO. Registered Oct. 3, 1933. Frank E. Wattles, Buffalo, N. Y. Renewed Oct. 3, 1953. Eggs. Class 46.

307,006. PRINCIPE & PRINCIPESSA. Registered Oct. 10, 1933. Marotta & Cella, Brooklyn, N. Y., a firm. Renewed Oct. 10, 1953. Olive Oil. Class 46.

307,197. KINGS FARM BRAND. Registered Oct. 17, 1933. Samuel T. Cwick, Inc., Brooklyn, N. Y., a corporation of New York. Renewed Oct. 17, 1953. Butter and Eggs. Class 46.

307,221. "RICHLUBE" ETC. AND DESIGN. Registered Oct. 17, 1933. Richfield Oil Corporation of New York, New York, N. Y., a corporation of Delaware. Renewed Oct. 17, 1953. Petroleum Products—Namely, Lubricating Oil. Class 15.

307,273. SUNSHINE. Registered Oct. 24, 1933. John Barbey, assignor to Barbey's Inc. Renewed Oct. 24, 1953, to Sunshine Brewing Co., Reading, Pa., a corporation of Pennsylvania. Beer, Ale, Porter, and Stout. Class 48.

307,276. DUBARRY. Registered Oct. 24, 1933. Richard Hudnut, New York, N. Y., a corporation of New York. Renewed Oct. 24, 1953. Perfumes, Toilet Water, Sachet Powder, Talcum Powder, Etc. Class 51.

307,378. "WHYTE & MACKAY'S" ETC. AND DESIGN. Registered Oct. 24, 1933. Whyte & Mackay Limited, Glasgow, Scotland, a corporation organized under the laws of Great Britain. Renewed Oct. 24, 1953. Whisky. Class 49.

307,387. "COOK'S" ETC. AND DESIGN. Registered Oct. 24, 1933. F. W. Cook Company, Inc., Evansville, Ind., a corporation of Indiana. Renewed Oct. 24, 1953. Fermented Malt Beverages of Legal Alcoholic Content. Class 48.

307,515. BRAEMAR. Registered Oct. 24, 1933. Archd. Campbell, Hope & King Limited, Glasgow, Scotland, a corporation organized under the laws of Great Britain. Renewed Oct. 24, 1953. Whisky. Class 49.

307,544. "TREVOR" AND DESIGN. Registered Oct. 31, 1933. Richey Shirt Manufacturing Corporation. Renewed Oct. 31, 1953, to Phillips-Jones Corporation, New York, N. Y., a corporation of New York. Men's and Boys' Dress and Negligee Shirts. Class 39.

307,715. DURICHLOR. Registered Oct. 31, 1933. The Duriron Company, Inc., Dayton, Ohio, a corporation of New York. Renewed Oct. 31, 1953. Ferrous Alloys. Class 14.

307,861. "CACTUS TWIST" AND DESIGN. Registered Nov. 7, 1933. J. Schoeneman, Inc., Baltimore, Md., a corporation of Maryland. Renewed Nov. 7, 1953. Coats, Vests, Trousers, Etc. Class 39.

308,023. SILEX. Registered Nov. 14, 1933. The Silex Company, Hartford, Conn., a corporation of Connecticut. Renewed Nov. 14, 1953. Electric Ranges and Portable Electric Table Stoves. Class 21.

308,271. HAPSBURG. Registered Nov. 28, 1933. Best Malt Products Company. Renewed Nov. 28, 1953, to Best Brewing Corporation, Chicago, Ill., a corporation of Illinois. Malt Beverage With Not More Than the Legal Alcoholic Content. Class 48.

308,643. "TUDOR" AND DESIGN. Registered Dec. 12, 1933. Europa Sales Corporation, New York, N. Y., a corporation of New York. Renewed Dec. 12, 1953. Toffee. Class 46.

308,689. "TWILGRIP" AND DESIGN. Registered Dec. 19, 1933. Leethems (Twilfit) Limited, Portsmouth, England, a corporation organized under the laws of Great Britain and Northern Ireland. Renewed Dec. 19, 1953. Garment Suspenders for wear. Class 39.

308,916. FROST SEALD. Registered Dec. 26, 1933. Olney & Carpenter, Inc., Wolcott, N. Y., a corporation of New York. Renewed Dec. 26, 1953. Frozen Vegetables and Frozen Fruits. Class 46.

308,947. "EAT-A-SNAX" ETC. AND DESIGN. Registered Dec. 26, 1933. R. Pete Schield, doing business as Schield Specialty Co., Nashville, Tenn. Renewed Dec. 26, 1953, to Tom Huston Peanut Company, Columbus, Ga., a corporation of Georgia. Peanut Butter Sandwiches. Class 46.

309,305. CRAINELOX. Registered Jan. 9, 1934. Craine, Inc., Norwich, N. Y., a corporation of New York. Renewed Jan. 9, 1954. Storage Tanks, Farm Silos, Industrial Silos, and Coal Pockets. Class 2.

309,306. "CRAINE" AND DESIGN LINED FOR BLUE. Registered Jan. 9, 1934. Craine, Inc., Norwich, N. Y., a corporation of New York. Renewed Jan. 9, 1954. Silos, Storage Pockets, Storage Tanks, and Bins. Class 2.

309,319. "SYLVANIA" ETC. AND DESIGN. Registered Jan. 9, 1934. Keystone Mushroom Co., Inc., Coatesville, Pa., a corporation of Pennsylvania. Renewed Jan. 9, 1954. Canned Mushrooms. Class 46.

309,473. "TOM HARDY" AND DESIGN LINED FOR BLACK. Registered Jan. 16, 1934. Glenmore Distilleries Co., Owensboro, Ky. Renewed Jan. 16, 1954, to Glenmore Distilleries Co., Louisville, Ky., a corporation of Delaware. Whiskey. Class 49.

309,506. "TRIPLE WALL" AND DESIGN LINED FOR BLUE. Registered Jan. 16, 1934. Craine, Inc., Norwich, N. Y., a corporation of New York. Renewed Jan. 16, 1954. Silos, Storage Pockets, Storage Tanks, Coal Pockets, and Bins. Class 2.

309,636. POND'S TISSUE HANKIES. Registered Jan. 23, 1934. Pond's Extract Company, New York, N. Y., a corporation of Delaware. Renewed Jan. 23, 1954. Paper Handkerchiefs. Class 37.

309,963. "CHAMPAGNE PRIVATE CUVÉE" ETC. AND DESIGN. Registered Feb. 6, 1934. Jos. Krug, doing business as Krug & Co. Renewed Feb. 6, 1954, to Paul Jacques Krug, Reims, France. Champagne Wines. Class 47.

310,102. "METALINK" AND DESIGN. Registered Feb. 13, 1934. Metalink Co., New York, N. Y. Renewed Feb. 13, 1954, to Jack Cutler, Newark, N. J. Etching Fluids. Class 6.

310,128. "PRIVATE CUVEE BRUT" ETC. AND DESIGN. Registered Feb. 13, 1934. Jos. Krug, doing business as Krug & Co. Renewed Feb. 13, 1954, to Paul Jacques Krug, Reims, France. Champagne Wines. Class 47.

310,178. "TUBORG BEER" ETC. AND DESIGN. Registered Feb. 13, 1934. Aktieselskabet De Forenede Bryggerier, Copenhagen, Denmark, a Danish joint stock company organized under the laws of Denmark. Renewed Feb. 13, 1954. Beer With Not More Than the Legal Alcoholic Content. Class 48.

310,728. "JOHNSON'S" AND DESIGN LINED FOR YELLOW. Registered Mar. 6, 1934. S. C. Johnson & Son, assignor to S. C. Johnson & Son, Inc. Renewed Mar. 6, 1954, to S. C. Johnson & Son, Inc., Racine, Wis., a corporation of Wisconsin. Wax for Coating and Polishing Wood, Metal, and Other Surfaces, Automobile Cleaner, and Lacquer. Class 4.

310,849. N–M–D. Registered Mar. 13, 1934. The Lunkenheimer Company, Cincinnati, Ohio, a corporation of Ohio. Renewed Mar. 13, 1954. Stop, Check, Whistle Type, Air Nozzle, and Similar Valves. Class 13.

310,855. "GLENMORE" ETC. AND DESIGN. Registered Mar. 13, 1934. Glenmore Distilleries Co., Owensboro, Ky. Renewed Mar. 13, 1954, to Glenmore Distilleries Co., Louisville, Ky., a corporation of Delaware. Whiskey. Class 49.

310,879. LOOPRITE. Registered Mar. 13, 1934. The Clark Thread Company, Newark, N. J. Renewed Mar. 13, 1954, to Coats & Clark Inc., New York, N. Y., a corporation of Delaware. Thread and Yarn. Class 43.

310,909. MAYFLOWER. Registered Mar. 13, 1934. Jas. E. Pepper & Company, Lexington, Ky. Renewed Mar. 13, 1954, to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware. Whiskey. Class 49.

310,928. ECHO SPRING. Registered Mar. 13, 1934. Jos. S. Finch & Company. Renewed Mar. 13, 1954, to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware. Whiskey. Class 49.

311,358. MERNIZED. Registered Mar. 20, 1934. The Millville Manufacturing Company, Philadelphia, Pa., a corporation of New Jersey. Renewed Mar. 20, 1954. Cotton Piece Goods. Class 42.

311,434. PERMA PRIME. Registered Mar. 20, 1934. S. C. Johnson & Son, Inc., Racine, Wis., a corporation of Wisconsin. Renewed Mar. 20, 1954. Paint Undercoats and Priming Coats. Class 16.

311,750. CREMO. Registered Apr. 3, 1934. The American Tobacco Company, New York, N. Y., a corporation of New Jersey. Renewed Apr. 3, 1954. Cigars, Cheroots, and All-Tobacco Cigarettes. Class 17.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

260,144. "STAZRITE" AND DESIGN. Registered Aug. 20, 1929. Quaker Oil Products Corporation, Conshohocken, Pa. Lubricating Greases. Class 15. Disclaimed as follows: "Quaker Chemical Products Corporation . . . hereby disclaims from said registration the entire background design, namely the scroll and hand, except the word Stazrite."

345,637. CORAVOL. Registered May 4, 1937. Western Chemical Company of Kansas City, Missouri, Kansas City, Mo. A Chemical for Creating and Maintaining an Alkaline Condition in Boiler, Steam, Condensate, and Water Systems, Etc. Class 6. Corrected as follows: In the certificate, lines 2–3 (first occurrence) and 16; in the heading and signature to the statement; and in lines 1–2 of the statement, "of Kansas City, Missouri" should be deleted.

405,760. "VICTORIA" AND PORTRAIT OF THE LATE QUEEN VICTORIA OF ENGLAND. Registered Feb. 22, 1944. The Laidlaw Co. Inc., New York, N. Y. Wool Upholstery Fabrics in the Piece, Etc. Class 42. Restricted under the provisions of section 18 of the Trade-Mark Act of 1946 to that area of the United States comprising the States of New York, Connecticut, Rhode Island, and New Jersey, by order of the Commissioner dated Dec. 22, 1953 following decision on Concurrent Use Proceeding No. 113, *Wawak Company* v. *The Laidlaw Co. Inc.*

520,258. PRETTY WALK. Registered Jan. 24, 1950. John Irving Shoe Corporation, Boston, Mass. Women's Shoes. Class 39. Corrected as follows: In the certificate, lines 3 and 4 (second occurrence); and in the statement, line 2, "Massachusetts" should be *Delaware*.

534,909. "EXQUISITE FOOTWEAR BY MARY JANE" AND DESIGN. Registered Dec. 19, 1950. John Irving Shoe Corporation, Boston, Mass. Women's Shoes. Class 39. Corrected as follows: In the certificate, line 3 (second occurrence); and in the statement, line 2, "Massachusetts" should be *Delaware*.

547,457. FANCIFUL FIGURE OF A FACE WITHIN A DESIGN. Registered Sept. 4, 1941. Arthur Guinness, Son & Co., Ltd., London, England. Stout. Class 48. Amended as follows: In the statement, column 1, lines 5 and 6, "Edward and John Burke, Limited" is deleted and *Arthur Guinness Son & Co. Distributors, Ltd.* is inserted in lieu thereof; column 2, line 4, after "Limited" (*by change of name Arthur Guinness Son & Co. Distributors, Ltd.*) is inserted; line 11, after "said" *Arthur Guinness Son & Co. Distributors, Ltd. (formerly* is inserted; and in line 12 the comma following "Limited" is deleted and) is inserted in lieu thereof.

549,330. "AMBLERS". Registered Oct. 9, 1951. John Irving Shoe Corporation, Boston, Mass. Women's Shoes. Class 39. Corrected as follows: In the certificate, line 3 (second occurrence), "Massachusetts" should be *Delaware*; and in the statement, lines 2 and 3, "Commonwealth of Massachusetts" should be *State of Delaware*.

561,787. R. O. W. Registered July 22, 1952. R. O. W. Sales Company, Ferndale, Mich. Metallic Sash Guide Strips, Metallic Sealing Strips, for Windows and Window Frames. Class 12. Corrected as follows: In the certificate, lines 2 and 13; in the heading and signature to the statement; and in line 1 of the statement, "Company" should be *Co.*

567,162. LONDON BRITTS. Registered Nov. 25, 1952. John Irving Shoe Corporation, Boston, Mass. Women's Shoes. Class 39. Corrected as follows: In the certificate, lines 2 and 3 (second occurrence), "Massachusetts" should be *Delaware*; and in the statement, lines 2 and 3 "Commonwealth of Massachusetts" should be *State of Delaware*.

579,644. MISTO$_2$GEN. Registered Sept. 8, 1953. Leon Cameto, doing business under the name and style of Production Foundry Company, Oakland, Calif. Surgical and Medical Body Supports, Etc. Class 44. Corrected as follows: In the statement, line 8, after "for" *surgical and medical oxygen tents, surgical and medical aerosol generators*, should be inserted.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

27,847. "VIYELLA". Registered Feb. 25, 1896. Renewed Feb. 25, 1926. Re-renewed Feb. 25, 1946. William Hollins & Company (Nottingham), Limited, Nottingham, England. Unshrinkable Flannels, Etc. Class 42. New certificate under section 7(c) issued Feb. 2, 1954 to William Hollins & Company, Limited, of Nottingham, England, a company with limited liability duly organized and existing pursuant to the laws of the United Kingdom of Great Britain and Northern Ireland.

74,515. VIYELLA. Registered July 20, 1909. Renewed July 20, 1929. Re-renewed July 20, 1949. William Hollins and Company, Limited, Mansfield, Radford, Nottingham, Bridgeton, and London, England, and Glasgow, Scotland. Women's Garments Comprising Costumes, Blouses, Etc. Class 39. New certificate under section 7(c) issued Feb. 2, 1954 to William Hollins & Company Limited, a company with limited liability duly organized and existing pursuant to the laws of the United Kingdom of Great Britain and Northern Ireland, located and doing business at Nottingham, England.

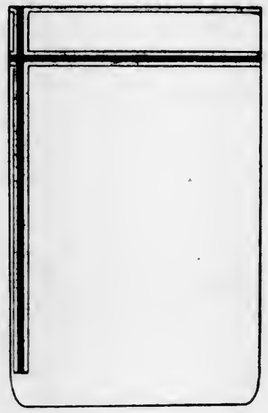
TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 306,355. Registered Sept. 19, 1933. Germain Seed & Plant Company, Los Angeles, Calif. Republished by Germain's, Inc., Los Angeles, Calif., a corporation of California.



No claim is made to the representation of the outline of a seed bag.

For Flower and Vegetable Seeds.

Claims use since Mar. 15, 1933.

CLASS 5

ADHESIVES

Reg. No. 308,736. Registered Dec. 19, 1933. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Republished by registrant.

TRULINE

For Dry Core Binders in Casting Metals.

Claims use since about July 26, 1933.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Reg. No. 95,099. Registered Feb. 3, 1914. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Republished by registrant.

RED H

For Dynamite.

Claims use since Jan. 21, 1913.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 309,081. Registered Jan. 2, 1934. Kohler Co., Kohler, Wis., a corporation of Wisconsin. Republished by registrant.

K OF K

For Closet Seats and Closet Seat Bumpers.

Claims use since Dec. 1, 1929.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 371,976. Registered Oct. 17, 1939. Standard Steel Spring Company, Coraopolis, Pa., a corporation of Pennsylvania. Republished by registrant.

CORRONIZED

For Protectively Surfaced Ferrous or Non-Ferrous Metals.

Claims use since Feb. 18, 1939.

CLASS 15

OILS AND GREASES

Reg. No. 93,425. Registered Sept. 16, 1913. Chesebrough Manufacturing Company, Consolidated, New York, N. Y., a corporation of New York. Republished by registrant.

FILTRENE

For Lubricating Oil.

Claims use since about the year 1887.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 310,006. Registered Feb. 6, 1934. Poloris Company, Inc., New York, N. Y. Republished by Poloris Company, Inc., Jersey City, N. J., a corporation of New Jersey.

POLORIS

For Poultices, and Tablets for the Relief of Pain and Colds.

Claims use since Jan. 19, 1915.

Reg. No. 399,423. Registered Jan. 5, 1943. The Alphaden Company, Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

TRYCOGEN

For Vaginal Antiseptic for the Treatment of Trichomomas Vaginalis Vaginitis.
Claims use since May 29, 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 398,442. Registered Oct. 27, 1942. The Folmer Graflex Corporation, Rochester, N. Y. Republished by Graflex, Inc., Rochester, N. Y., a corporation of Delaware.

OPTAR

For Photographic Apparatus—Namely, Camera Lenses.
Claims use since May 8, 1942.

Reg. No. 398,443. Registered Oct. 27, 1942. The Folmer Graflex Corporation, Rochester, N. Y. Republished by Graflex, Inc., Rochester, N. Y., a corporation of Delaware.

GRAPHEX

For Photographic Apparatus—Namely, Camera Shutters.
Claims use since May 8, 1942.

Reg. No. 416,432. Registered Sept. 11, 1945. The Folmer Graflex Corporation, Rochester, N. Y., now by change of name Graflex, Inc. Republished by Graflex, Inc., Rochester, N. Y., a corporation of Delaware.

SPEED GRAPHIC

The word "Speed" is disclaimed apart from the word "Graphic."
For Photographic Cameras.
Claims use since 1912.

Reg. No. 419,173. Registered Feb. 5, 1946. Graflex, Inc., Rochester, N. Y., a corporation of Delaware. Republished by registrant.

TELE-OPTAR

For Photographic Lenses.
Claims use since Aug. 17, 1943.

Reg. No. 440,111. Registered Aug. 10, 1948. Tracerlab, Inc., Boston, Mass., a corporation of Massachusetts. Republished by registrant.

AUTOSCALER

For Radioactivity Measuring Instrument Employing a Geiger-Mueller Tube, for Counting Radioactive Impulses and Measuring the Time for Their Reception.
Claims use since July 1, 1946.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 247,269. Registered Sept. 25, 1928. The De Luxe Clock & Mfg. Co., Inc., New York, N. Y. Republished by The Lux Clock Company, Inc., New York, N. Y., a corporation of New York.

DE LUXE

For Clock Cases.
Claims use since January 1918.

CLASS 33

GLASSWARE

Reg. No. 442,533. Registered Apr. 26, 1949. Alexander H. Kerr and Company, Incorporated, Los Angeles, Calif., a corporation of Nevada. Republished by registrant.

AHK

For Glass Containers—Namely, Glass Jars and Tumblers.
Claims use since Sept. 9, 1944.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 396,036. Registered June 23, 1942. York Oil Burner Co., Inc., York, Pa. Republished by York-Shipley, Inc., York, Pa., a corporation of Delaware.

RADI-AIRE

The word "Aire" is disclaimed apart from the mark as shown.
For Fuel Burning Air Conditioning Units.
Claims use since Sept. 8, 1939.

Reg. No. 399,838. Registered Feb. 2, 1943. York Oil Burner Co., Inc., York, Pa. Republished by York-Shipley, Inc., York, Pa., a corporation of Delaware.

yh

For Fuel Burners, Boilers, Air Conditioning Units, and Adjustable Iris Orifices for Use in the Control of Fluid Flow.
Claims use since May 1, 1939.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 362,811. Registered Nov. 29, 1938. Commerce Clearing House, Inc., Chicago, Ill., a corporation of Delaware. Republished by registrant.

TAXES ON PARADE

For Printed News Bulletin Published at Irregular Intervals.
Claims use since Jan. 1, 1938.

Reg. No. 378,006. Registered May 21, 1940. Commerce Clearing House, Inc., Chicago, Ill., a corporation of Delaware. Republished by registrant.

TAXES
The TAX MAGAZINE

For Magazine.
Claims use since Jan. 1, 1939.

CLASS 39

CLOTHING

Reg. No. 81,274. Registered Mar. 21, 1911. William Hollins & Company, Limited, London, England, a limited liability company of the United Kingdom of Great Britain and Northern Ireland. Republished by registrant, present address Nottingham, England.

VIYELLA

For Neckties.
Claims use since June 25, 1894.

Reg. No. 222,032. Registered Dec. 21, 1926. Finchley, Inc., New York, N. Y., a corporation of New York. Republished by registrant.



FIN-DUDDY

For Men's Sport Suits Including Pants, Coats, and Vests.
Claims use since about Apr. 1, 1926.

Reg. No. 304,343. Registered July 4, 1933. Gardiner-Warring Company, Inc., Florence, Ala. Republished by Flagg-Utica Corporation, Utica, N. Y., a corporation of New York.



The word "Eiderknits" is disclaimed apart from the mark as shown.
For Men's, Women's, and Children's Sweaters; Men's, Women's, and Children's Sweat Shirts; and Men's, Women's, and Children's Underwear.
Claims use since Aug. 12, 1932.

Reg. No. 304,346. Registered July 4, 1933. Gardiner-Warring Company, Inc., Florence, Ala. Republished by Flagg-Utica Corporation, Utica, N. Y., a corporation of New York.



The word "Suedeknits" is disclaimed apart from the mark as shown.
For Men's and Women's Sweaters and Men's and Women's Sweat Shirts.
Claims use since Aug. 12, 1932.

Reg. No. 393,638. Registered Feb. 24, 1942. E. R. Moore Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

"PALOMA"

For Gymnasium Suits, Play Suits for Women and Girls, Choir Gowns, Academic Graduation Caps and Gowns, and Ministers' and Judges' Gowns.
Claims use since September 1939.

Reg. No. 430,602. Registered June 17, 1947. Winer Manufacturing Company, Hammond, Ind., assignor to Winer Manufacturing Co., Inc. Republished by Winer Manufacturing Co., Inc., Hammond, Ind., a corporation of Indiana.

Stratojac

For Men's, Boys', Juniors', Women's, and Girls' Sport Jackets.
Claims use since Feb. 27, 1946.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 326,582. Registered July 30, 1935. Duart Manufacturing Co., Ltd., San Francisco, Calif., a corporation of California. Republished by registrant.

212

For Electrical Heater Used With Permanent Hair Waving Machines.
Claims use since Oct. 8, 1934.

Reg. No. 427,437. Registered Feb. 11, 1947. Duart Manufacturing Co., Ltd., San Francisco, Calif., a corporation of California. Republished by registrant.

V-10

For Chemical Hair Waving Pads and Permanent Hair Waving Solution.
Claims use since Oct. 1, 1940.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 189,856. Registered Sept. 30, 1924. Pomona Products Co., Griffin, Ga., a corporation of Georgia. Republished by registrant.

GEORGIA BELLE

For Canned Pimento Peppers.
Claims use since Feb. 26, 1923.

Reg. No. 214,776. Registered July 6, 1926. J. D. Martin, Fresno, Calif. Republished by Effie L. Martin, Fresno, Calif., executrix of the estate of J. D. Martin, deceased.

RAYO

For Fresh Grapes.
Claims use since August 1921.

Reg. No. 221,599. Registered Dec. 7, 1926. J. D. Martin, Fresno, Calif. Republished by Effie L. Martin, Fresno, Calif., executrix of the estate of J. D. Martin, deceased.

RAYO

For Fresh Vegetables, Fresh Citrous Fruits, Fresh Grapes, Fresh Honeydews, Fresh Deciduous Fruits, Dried Fruits, Fresh Cantaloupes, Fresh Casabas.
Claims use since about 1920.

Reg. No. 226,319. Registered Apr. 5, 1927. Utah-Idaho Sugar Company, Salt Lake City, Utah, a corporation of Utah. Republished by registrant.



For Sugar for Table and Preserving Purposes.
Claims use since Mar. 1, 1926.

Reg. No. 308,818. Registered Dec. 19, 1933. M & R Dietetic Laboratories, Inc., Columbus, Ohio, a corporation of Ohio. Republished by registrant.



The expression "Mineral Modified Milk" is disclaimed apart from the mark as shown. The drawing is lined for gold.
For Sweet Milk Powdered or Liquid.
Claims use since Oct. 15, 1932.

Reg. No. 327,804. Registered Sept. 3, 1935. Pillsbury Flour Mills Company, Minneapolis, Minn. Republished by Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware.

POTENTATE

For Wheat Flour.
Claims use since Nov. 12, 1934.

Reg. No. 342,949. Registered Feb. 2, 1937. Pillsbury Flour Mills Company, Minneapolis, Minn. Republished by Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware.

SPRING EZE

For Wheat Flour.
Claims use since Aug. 20, 1936.

Reg. No. 368,471. Registered June 20, 1939. Pillsbury Flour Mills Company, Minneapolis, Minn. Republished by Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware.

SPRING-MONT

For Wheat Flour.
Claims use since Jan. 14, 1939.

Reg. No. 373,855. Registered Dec. 26, 1939. Pillsbury Flour Mills Company, Minneapolis, Minn. Republished by Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware.

DURINA

For Durum Wheat Flour.
Claims use since Feb. 18, 1939.

Reg. No. 378,808. Registered June 18, 1940. Pillsbury Flour Mills Company, Minneapolis, Minn. Republished by Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware.

CREAMONT

For Wheat Flour.
Claims use since Jan. 13, 1940.

Reg. No. 388,418. Registered June 24, 1941. Pillsbury Flour Mills Company, Minneapolis, Minn. Republished by Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware.

HI-STRETCH

For Wheat Flour.
Claims use since Dec. 20, 1940.

Reg. No. 435,917. Registered Jan. 13, 1948. Peters & Garabedian, Fresno, Calif., a co-partnership. Republished by registrant.

NEW STORY

For Fresh Deciduous Fruits, Fresh Grapes, and Fresh Melons.
Claims use since 1939.

Reg. No. 443,005. Registered July 5, 1949. Geo. A. Hormel & Company, Austin, Minn., a corporation of Delaware. Republished by registrant.

SPIC

For Animal Fat Shortening.
Claims use since Feb. 22, 1945.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 304,242. Registered June 27, 1933. Hiram Walker & Sons, Limited, Walkerville, Ontario, Canada. Republished by Hiram Walker & Sons Inc., Peoria, Ill., a corporation of Michigan.

WALKER'S LONDON DRY GIN

The words "London Dry Gin" are disclaimed apart from the mark as shown.
For Gin.
Claims use since April 1927.

Reg. No. 304,243. Registered June 27, 1933. Hiram Walker & Sons, Limited, Walkerville, Ontario, Canada. Republished by Hiram Walker & Sons Inc., Detroit, Mich., a corporation of Michigan.

Walker's Old Rye

The words "Old Rye" are disclaimed apart from the mark as shown.
For Whisky.
Claims use since June 1915.

Reg. No. 304,244. Registered June 27, 1933. Hiram Walker & Sons, Limited, Walkerville, Ontario, Canada. Republished by Hiram Walker & Sons Inc., Detroit, Mich., a corporation of Michigan.

Walker's American Rye Whisky

The words "American Rye Whisky" are disclaimed apart from the mark as shown.
For Whisky.
Claims use since March 1927.

Reg. No. 327,784. Registered Sept. 3, 1935. Hiram Walker & Sons Inc., Peoria, Ill., a corporation of Michigan. Republished by registrant, present address Detroit, Mich.

TWIN SEAL

For Whiskey.
Claims use since on or about Apr. 15, 1935.

Reg. No. 327,788. Registered Sept. 3, 1935. Hiram Walker & Sons Inc., Peoria, Ill., a corporation of Michigan. Republished by registrant, present address Detroit, Mich.



For Whiskey.
Claims use since on or about Apr. 15, 1935.

Reg. No. 337,436. Registered Aug. 4, 1936. Hiram Walker & Sons Inc., Peoria, Ill., a corporation of Michigan. Republished by registrant, present address Detroit, Mich.

SIGNET

For Whiskey.
Claims use since on or about Mar. 2, 1936.

Reg. No. 350,966. Registered Oct. 12, 1937. Hiram Walker & Sons Inc., Peoria, Ill., a corporation of Michigan. Republished by registrant, present address Detroit, Mich.



For Gin.
Claims use since June 18, 1934.

Reg. No. 359,733. Registered Aug. 30, 1938. Hiram Walker & Sons Inc., Peoria, Ill., a corporation of Michigan. Republished by registrant, present address Detroit, Mich.

White Swan

For Gin.
Claims use since on or about June 18, 1934.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 333,052. Registered Mar. 10, 1936. Duart Manufacturing Co., Ltd., San Francisco, Calif., a corporation of California. Republished by registrant.

DUART

For Permanent Hair Waving Oil, Permanent Hair Waving Solution, Hair Conditioner Solution, Hair Rinse, Scalp Treatment Solution, and Finger Wave Lotion.
Claims use since Apr. 1, 1928.

Reg. No. 374,678. Registered Jan. 23, 1940. Morton G. Neumann, Chicago, Ill. Republished by Valmor Products Co., Chicago, Ill., a corporation of Illinois.



The word "Hair" is disclaimed apart from the mark as shown.
For Hair Dressing Pomade; Hair Oil; Brilliantine; and Hair Ointment.
Claims use since July 1936.

Reg. No. 427,437. Registered Feb. 11, 1947. (Classified in Class 44.) Duart Manufacturing Co., Ltd., San Francisco, Calif., a corporation of California. Republished by registrant.
See this number in Class 44 for goods and mark.
Claims use since Oct. 1, 1940.

PLANT PATENTS

GRANTED FEBRUARY 2, 1954

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,248

NECTARINE TREE

Frederic W. Anderson, Merced, Calif.

Application March 17, 1953, Serial No. 343,006

1 Claim. (Cl. 47—62)

A new and distinct variety of nectarine tree, as described and illustrated, bearing relatively small, firm, yellow fleshed, semi-freestone fruit having yellow skin color, almost entirely overspread with red; characterized—in comparison with the John Rivers nectarine—by yellow instead of white flesh; ripening approximately one week earlier; slightly larger in fruit size; more exterior red color; firmer fleshed; and semi-freestone instead of clingstone.

1,249

NECTARINE TREE

Frederic W. Anderson, Merced, Calif.

Application March 17, 1953, Serial No. 343,007

1 Claim. (Cl. 47—62)

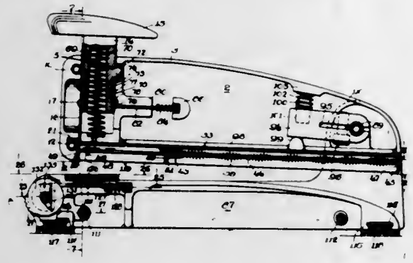
A new and distinct variety of nectarine tree, as described and illustrated, bearing medium sized, firm, yellow-fleshed freestone fruit having yellow skin almost entirely overspread with red; characterized—in comparison with the John Rivers nectarine—by yellow instead of white flesh; ripening approximately one week later; slightly larger; more exterior red color; firmer fleshed; shorter chilling requirement; heavier and more regular producer; and freestone instead of semi-clingstone; and—by comparison with the Sun Grand nectarine—having general resemblance thereto but being smaller in fruit size, and ripening ten days to two weeks earlier.

PATENTS

GRANTED FEBRUARY 2, 1954

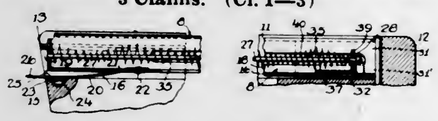
GENERAL AND MECHANICAL

2,667,637
STAPLING MACHINE
Herbert W. Marano, Brooklyn, N. Y., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application February 15, 1949, Serial No. 76,497
27 Claims. (Cl. 1—3)



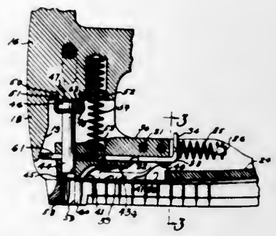
1. In a stapling machine, an exit channel, a driver for driving staples through said exit channel, a staple support slide, a feed plate positioned in said slide, a pair of fingers extending outwardly from said feed plate to engage the legs of staples mounted on said staple support slide, a spring urging said feed plate forwardly to move said staples toward said exit channel, a plate adjacent the forward side of said exit channel, and a pair of projections extending rearwardly from said plate into the area of said exit channel to support the legs of each staple as it is driven through said exit channel.

2,667,638
REMOVABLE STAPLE SUPPORTING SLIDE FOR STAPLING MACHINES
Samuel Segal, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application May 5, 1951, Serial No. 224,700
3 Claims. (Cl. 1—3)



1. In combination, a stapling machine having a body portion provided with a recess at its bottom, a staple supporting slide slidable in said recess, a resilient member secured to said slide, a stud mounted on said resilient member, said stud being engageable with said body portion to releasably hold said staple supporting slide in predetermined position in said recess, a feed plate mounted on said staple supporting slide, said feed plate being movable longitudinally relative to said staple supporting slide, a member mounted inside said staple supporting slide, said member being rigidly secured to said feed plate and having a lip projecting inside said staple supporting slide, whereby said feed plate may be manually retracted from its staple feeding position, and a second lip projecting into said staple supporting slide, said second lip being engageable by said first mentioned lip to limit the forward movement of said feed plate relative to said staple supporting slide, the forward edge of said feed plate extending forwardly of said first mentioned lip a distance equal to the distance from said second lip to the forward end of said staple supporting slide, whereby the forward end of said feed plate is flush with the forward end of said staple supporting slide when said feed plate is in its most forward position.

2,667,639
CAM ACTION MAGAZINE TYPE TACK HAMMER
Eugene G. Schick, Fort Worth, Tex., assignor to Tok, Inc., Amarillo, Tex., a corporation of Texas
Application October 5, 1950, Serial No. 188,555
3 Claims. (Cl. 1—45)

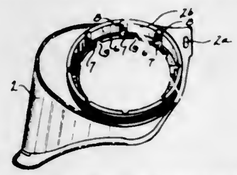


1. In a magazine type tack hammer including a handle and a head member on one end of said handle, the combination of a tack magazine having a tack passage slot through the length thereof, said magazine having one end thereof pivotally secured to said handle and having the remaining end thereof movably secured to said head member, a driver projecting from said head member and slidably positioned through the end of said magazine opposite its said pivoted connection and transversely through said tack passage slot, a cam carried by said head member, a draw bar slidably mounted in said magazine and positioned to engage said cam, and a tack engaging ratchet secured to said draw bar and positioned to engage and move the tacks in said tack passage slot toward said driver.

2,667,640
VENTILATED GOGGLES
George R. Hoffmaster, Esterly, Pa., assignor to Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania
Application June 16, 1952, Serial No. 293,770
3 Claims. (Cl. 2—14)

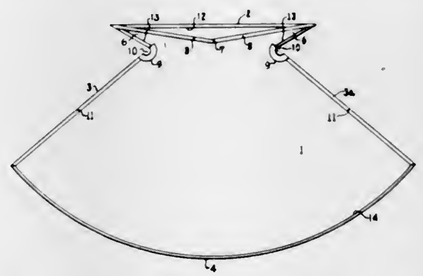
1. A pair of goggles comprising lens retaining eye cups having flanged rim portions whose inner walls are of substantially the same diameter as the lenses received and centered thereby, each

of said rim portions including a radially inwardly projecting annular shoulder portion, air inlet openings notched out of said rim portion radially outwardly beyond the periphery of the shoulder portion, air outlet openings notched out from circumferentially spaced portions of said shoulder portion in staggered relationship with said air inlet openings, and cutout portions notched



from the outer surface of said shoulder portion at circumferentially spaced points, extending between and overlapping said inlet and outlet openings, whereby air may enter beyond the periphery of each lens then travel circumferentially underneath the lens through a small arc and finally emerge through said outlet openings into the interior of the eye cup.

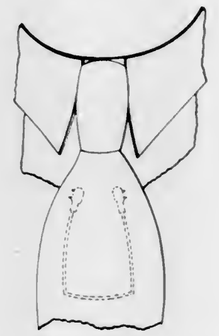
2,667,641
HOOD-FORMING RAIN CLOAK
Lois M. Finnegan, Detroit, Mich., now by change of name Lois E. Moss
Application December 26, 1951, Serial No. 263,410
3 Claims. (Cl. 2—84)



1. A rain cloak comprising a sheet of waterproof material having a substantially horizontal top edge, downwardly divergent lateral edges, and an approximately arcuate bottom edge, said lateral edges, as upwardly extended, having an intersection above said top edge, and such intersection forming the approximate center of curvature for the bottom edge, the top portion of said cloak serving as a hood and having a width materially less than that of the bottom portion, and a pair of opposite substantially triangular elongated lateral extensions from said top portion for interconnection beneath the chin of a person wearing the garment, said extensions having their upper edges coincident with said top edge of the sheet and having their lower edges intersected by the lateral edges of the sheet.

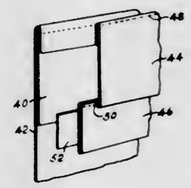
2,667,642
NECKTIE SPREADER
Wilbur T. Ely, Tacoma, Wash.
Application August 8, 1950, Serial No. 178,231
2 Claims. (Cl. 2—153)

2. A tie spreader for a four-in-hand tie, comprising a straight resilient wire bent to form arms of substantially equal length diverging toward their free ends, a bulbous cap on the terminal portion of each of the arms, a prong on each cap formed integral therewith and projecting therefrom in the plane of the bent wire, said arms



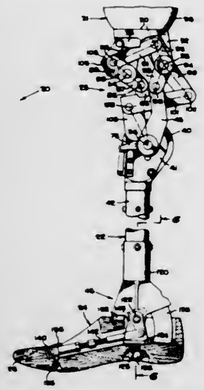
being adapted to be sprung toward each other and to engage the tie, whereby said arms apply a spreading action to the tie.

2,667,643
WAISTBAND CONSTRUCTION
Isadore J. Elman, Cazenovia, N. Y.
Application February 15, 1951, Serial No. 211,129
1 Claim. (Cl. 2—236)



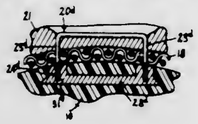
A waistband construction comprising a stiffening strip of buckram, body garment fabric secured to the stiffening strip along the upper marginal edge thereof on the inside face of the buckram, said garment fabric depending from the upper edge of said stiffening strip and over the outside face thereof and below, lining fabric overlying the inside face of said buckram strip and having folded-over upper and lower edges forming upper and lower folds, the upper folded over edge of the lining being stitched to said stiffening strip through the upper marginal edge of the body garment fabric along the upper edge of said stiffening strip and closely adjacent the upper fold, the lower folded over edge depending substantially below the lower edge of said stiffening strip, the marginal edge of the lower folded edge being secured by stitches to the lower edge portion of said strip said stitches being spaced from the lower fold, and thermo plastic heat-setting material in strip form having its lower edge portion interposed between said garment fabric and the lining fabric, and disposed with its upper edge portion adjacent said lower edge stitches, and with a substantial portion thereof below the lower edge of said stiffening strip, said heat-setting material being bonded over the major portion of its width between said garment fabric and said lining fabric, and being of a width substantially equal to the distance between the edge of said depending fold and said lower edge stitches.

2,667,644
ANATOMICAL KNEE AND HYDRAULIC SNUBBER
Orvin S. Johnson, Manhattan Beach, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application July 3, 1948, Serial No. 36,957
16 Claims. (Cl. 3—1.2)



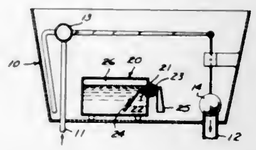
1. In an artificial leg having upper and lower leg components, and a knee joint connecting said components together for relative swinging movement, a hydraulic snubber for checking the relative swinging movement of said components comprising, in combination, a housing attached to one of said components, said housing having a cylindrical chamber formed therein concentric with the pivot axis of said knee joint, said chamber being filled with hydraulic fluid, a rotatable shaft disposed coaxially within said chamber and connected to the other of said components for rotation therewith, a vane on said shaft, a partition extending from the side wall of said chamber to the periphery of said shaft and cooperating with said vane to divide said chamber into two compartments, and restricted passage means interconnecting said compartments, whereby fluid displaced from one of said compartments by rotation of said vane is forced through said restricted passage means, creating resistance to rotation of said vane and shaft, and thereby retarding the swinging movement of said leg components with respect to one another.

2,667,645
MEANS FOR ATTACHMENT OF EYE MUSCLES TO IMPLANTS
Harold R. Moulton, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application April 4, 1950, Serial No. 153,810
5 Claims. (Cl. 3—13)



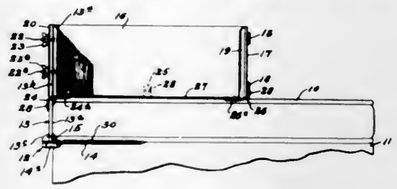
1. In a device of the character described, an artificial eye for replacement of an eye of an individual comprising an implant embodying a ball portion of substantially globular shape having a layer of foraminous material superimposed thereupon and a substantially rigid member carried by said ball portion, said rigid member having a plurality of openings therein, and separate means for attachment of the muscular structure of the eye to said implant comprising a substantially U-shaped clip member formed of pliable material, the bight portion thereof being initially movable toward the rigid member to overlyingly grip said muscular structure with the projecting portions thereof piercing said muscular structure and said foraminous material and being located within the openings in said rigid member whereupon they will be retained within said openings to securely attach the muscle to said implant.

2,667,646
LIQUID DISPENSER
Zenon Fleury Monteiro, Sao Paulo, Brazil
Application November 29, 1949, Serial No. 130,042
2 Claims. (Cl. 4—228)



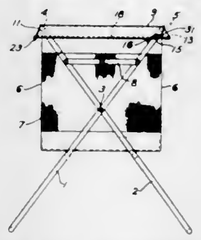
1. In combination, a first water receptacle having a discharge opening, a second receptacle supported by the first receptacle and substantially filled with a liquid desired to be introduced into the water in relatively small doses, a downwardly directed outlet attached to the upper part of said second receptacle, the outlet having downwardly and outwardly divergent walls terminating at a level near and above the bottom of the second receptacle, a tube connected to the inner end of said outlet and extending into the liquid and terminating near the bottom of the second receptacle, the lower end of said outlet being in communication with the interior of said first receptacle, means for filling said first receptacle with water to a level higher than the level of the liquid in the second receptacle, thereby forcing air through the outlet into the second receptacle and increasing the air pressure therein, and means for opening the discharge outlet of the water receptacle to discharge the water therefrom and causing an increased air pressure in the second receptacle to expel into the first receptacle a small portion of its contents.

2,667,647
COLLAPSIBLE AND PORTABLE CRIB ATTACHMENT
George J. Reggiani, Brooklyn, N. Y.
Application October 17, 1950, Serial No. 190,540
1 Claim. (Cl. 5—95)



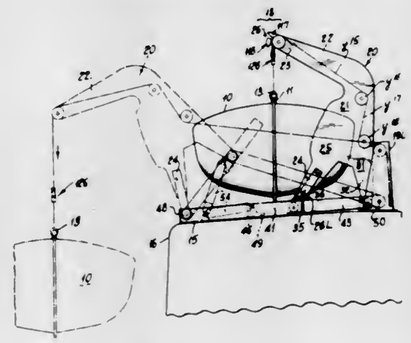
A collapsible crib structure and mounting means therefor including a bed provided with a mattress, said crib structure comprising in erected position an elongated attachment unit of L-shaped cross-section and composed of an edge-rail element and a mattress-underlying panel element, said edge-rail element in erected position of the said unit having sufficient length and height to form the side of a crib and having its lower edge extending to a plane substantially coinciding in erected position with the plane of the lower surface of said mattress and provided at its said lower edge with a hinged joint connected to said panel element for inward folding movement, said hinged joint being fixed against outward movement beyond said L-shape, said mattress-underlying panel element comprising a continuous flat sheet of rigid thin material extending in normally operative position beneath said mattress in a direct horizontal line from the bottom edge of said edge-rail element and being in said erected position of the said attachment unit slidably insertable beneath said mattress to provide a contacting surface beneath a portion of the mattress on which a child rests and stands, said panel element having a length slightly less than the length of said edge rail element and having a width of sufficient dimensions to provide a continuous and extensive frictional contact with said contacting surface, an additional rail element extending above the mattress and at a right angle to said edge rail element, and vertically-adjustable fastening means between said additional rail element and said edge rail element to enable the exertion of pressure of said additional element against the mattress and to lock the parts against relative movement, and whereby said panel element when slidably inserted will firmly anchor said edge rail in position and any outward push exerted on said edge rail element by a child within said crib is neutralized.

2,667,648
COLLAPSIBLE SCREEN CRIB COVER
William J. Donovan, Pittsford, N. Y., assignor to Trimble, Inc., Rochester, N. Y., a corporation of New York
Application April 4, 1952, Serial No. 280,610
6 Claims. (Cl. 5—97)



3. In a screen crib consisting of a collapsible frame including a top rail connecting the legs of each leg frame and a generally rectangular screened enclosure suspended between the top rails, a cover including a top overlying said top rails and depending marginal portions located beneath and surrounding said top rails, a retaining frame having its ends pivoted to the legs of one leg frame and secured to the depending marginal portion at one side of the cover, a generally U-shaped stretching frame pivoted coaxially with said retaining frame at its ends to the legs of the last mentioned leg frame and movable independently of the retaining frame, the stretching frame being secured to the depending marginal portions along the opposite side and both ends of the cover and located when in operative position surrounding and beneath said top rails, stop means carried by the retaining frame and acting to limit upward movement of the retaining frame by engagement with the leg frame, and fastening devices engageable with the stretching frame when the cover is drawn over the top rails and screened enclosure and acting to hold the cover engaged with said top rails and said marginal portion drawn tightly down and around the top rails.

2,667,649
TRANSLATING AND TILTING DAVIT
William E. Elling, Metuchen, N. J., assignor to Continental Copper & Steel Industries, Inc., New York, N. Y., a corporation of Delaware
Application May 20, 1948, Serial No. 28,191
15 Claims. (Cl. 9—38)



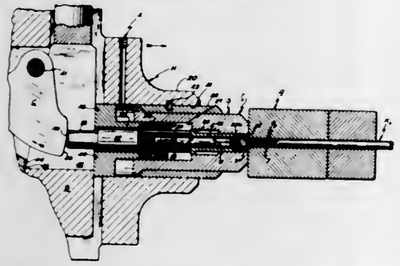
1. A ship's davit having a translating and tilting upstanding cradle with an upper frontward extending neck terminating in a head from which, by cables and sheaves boat lowering and hoisting operations are effected and downward extending legs at front and back carrying guide rollers, in combination with a system of cradle-guiding tracks normally nested longitudinally and substantially flatwise near the ship deck and having longitudinal ways engaged by such cradle rollers, the first track being a fixed straight track with its way engaged by a cradle front roller; the second track being a front-hinged upswingable straight track normally parallel and adjacent to the fixed track, with its way engaged by a cradle front roller, so that said track is locked down by the cradle rollers cooperating with the fixed track against upswinging except when said rollers are in their front positions in alignment with the axis of upswing; the third track being a back-hinged unswingable track adjacent to the front-hinged track, with its way engaged by a cradle back roller; with a connecting sliding pivot device between said front-hinged and back-hinged tracks compelling them to swing in unison but about their different axes as the cradle back leg swings with the back-hinged track during the tilting of the cradle, and said sliding pivot device acting also to lock down the back-hinged track so long as the front-hinged track is locked to the fixed track; a charged spring motor arranged continuously to urge the cradle from its normal back toward its frontmost position; and a controlling winch acting through connecting cables to bring about, in cooperation with the spring motion, launching operation steps including the translational shift of the cradle from its normal back position to its frontmost position, followed by its frontward tilt to carry the cradle head and suspended boat to full outboard position followed by the lowering of the boat, and stowing operations substantially the reverse thereof.

2,667,650

METHOD OF MAKING HOLLOW ARTICLES

John H. Friedman, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio, a corporation of Ohio

Application May 3, 1949, Serial No. 91,029
14 Claims. (Cl. 10—27)



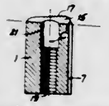
7. The method of forming a headed, socketed article comprising the steps of forming a blank having a head part and a shank part, surrounding and confining the head part, piercing the head part while confined, removing the confinement of the head part with the piercing tool remaining in the blank head part, and applying an axial force against the end wall of said head part outwardly of said tool stripping the tool from the head part with the latter unconfined.

2,667,651

THREAD CHASER AND CHASER ASSEMBLY

Tracy W. Barnes, Webster Groves, Mo., assignor to John Ramming Machine Company, St. Louis, Mo., a corporation of Missouri

Application August 22, 1951, Serial No. 243,142
11 Claims. (Cl. 10—111)



1. A chaser comprising a body generally having the form of a segment of a cylinder greater than a semicylinder bounded by a plane parallel to the axis of the cylinder and having an axial keyway in its cylindrical portion, the face of the body in the bounding plane constituting a thread cutting face and having serrations extending substantially parallel to the axis of the cylinder throughout a substantial portion of the length of the face, the body being beveled at one end to form a cutting edge and having a tapped opening extending therethrough from one end to the other for receiving an adjusting screw.

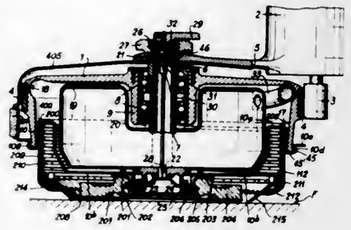
2,667,652

CENTRIFUGAL FLOOR WASHING MACHINE

Willy Engel, Geneva, Switzerland, assignor of one-half to Lina Teichmann, Geneva, Switzerland

Application January 16, 1950, Serial No. 138,718
Claims priority, application Switzerland January 20, 1949
9 Claims. (Cl. 15—93)

3. A centrifugal floor washing machine comprising an electric motor journalled in a casing, a supporting arm rigid with said motor casing and having a fastening perforation, a hollow pivot fastened in said perforation, a rotary drum having an aperture in the bottom thereof and adapted to be rotated around said hollow pivot, torque transmitting means disposed between the electric motor and the rotary drum, an intermediate drum partly covered by the rotary drum, said intermediate drum having a substantially circular lower opening, a liquid collector extending entirely around the axis of said pivot and disposed substantially inside said lower opening but in spaced relation to said intermediate drum, said collector having an inclined lip normally contacting the floor, a crown-piece concentrically disposed within said collector and provided with a rubbing arrangement, a filter removably carried by said intermediate drum above said collector, said intermediate drum being provided with notches, resilient clips hitched onto said rotary drum and engaged in the notches of said intermediate drum, the inner part of said clips being connected to said crown piece so as to rotate the same means connecting said clips and said collector to rotate the same, a cleansing liquid container fastened to the supporting arm, means for conveying to said container the liquid flowing into the intermediate drum through the action of the centrifugal force, said container having a closable outlet port located substantially on the common axis of the rubbing arrangement and the collector.

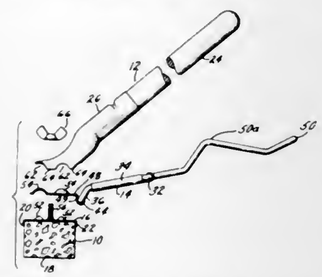


2,667,653

COMBINED MOP AND WRINGER

Alfred L. Le Febvre, Windsor, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut

Application January 7, 1949, Serial No. 69,713
16 Claims. (Cl. 15—119)



3. A mop including a handle and a head secured to said handle and presenting a front portion forward of said handle in relation to direction of mop advance under normal mopping action and a rear portion at the opposite side of said handle, a sponge block at the underside of the head and extending continuously from end to end thereof which block has a front and rear in respect to said head and a bottom working face presenting at the rear an edge displaced below said head, means for releasably holding the sponge block in normally fixed relationship with the head which means is constructed and arranged to enable the sponge block in its entirety

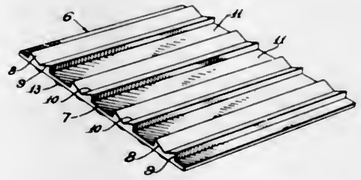
to be separated from the head by a single movement in one direction, a presser plate having a pivotal connection at the rear of said head to swing about a single axis which is in fixed relationship to said plate and to said head and which is above said bottom working face and substantially at right angles to said handle, a second handle for swinging the presser plate about the said fixed axis which handle is directly and rigidly connected with the plate at the edge thereof remote from the said axis, and means to maintain said presser plate in a mopping position above and in angular relation to said block and to maintain the second handle adjacent and below the first said handle, the relative disposition of said pivotal connection and presser plate positioning said plate upon swinging movement from mopping position to first engage only the rearward lower block edge below said head and to thereafter compress said block in a direction forwardly and against the underside of said head progressively from rear to front of said head to flush said block towards the front.

2,667,654

MAT

Christen J. Peterson, Chicago, Ill.; George Goessele, Theodore M. Dunlap, and City National Bank & Trust Company, executors of said Christen J. Peterson, deceased, assignors to Wear Proof Mat Company, Chicago, Ill., a corporation of Illinois

Application February 24, 1951, Serial No. 212,540
2 Claims. (Cl. 15—215)



1. A mat comprising a sheet formed of flexible rubber, with a plurality of parallel ridges on the upper surface, said ridges being in the form of right angled scalene triangles in cross section, the ridges being in pairs with the longer sides of each pair opposed to each other and forming longitudinal grooves, the several pairs being separated by channels bounded by the right angled faces of the ribs, downwardly extending projections arranged in rows on the lower side of the sheet opposed to the center lines of said grooves which serve as fulcrums for flexing the ridges laterally when pressed downwardly, and downwardly extending projections arranged in rows opposed to the center lines of the channels and coacting with said projections to assist in permitting the lateral flexing of the ridges when the mat is being used.

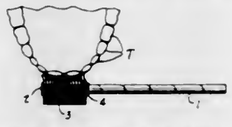
2,667,655

TOOTH CLEANING DEVICE HAVING ABSORBENT LAMINATIONS

George C. Halford, Jr., Cleveland Heights, Ohio

Application September 22, 1951, Serial No. 247,798
1 Claim. (Cl. 15—223)

A tooth cleaning device comprising a handle made of a plurality of convolutions of sheet material secured together by water-soluble adhesive and a series of flexible absorbent tooth-engaging laminae secured to said handle by water-soluble adhesive, said laminae each comprising a disc



having peripheral outwardly extending tooth-engaging projections.

2,667,656

WINDSHIELD WIPER

John R. Oishei, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.

Application October 28, 1949, Serial No. 124,102
7 Claims. (Cl. 15—245)



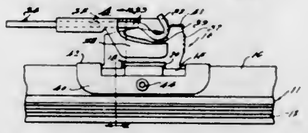
1. A windshield wiper comprising an elongate body, an elongate primary yoke having arm attaching means, secondary yokes one for each end of the primary yoke, the intermediate portion of each secondary yoke and the respective end of the primary yoke having cooperating headed and recessed parts interengageable by and upon relative movement between the secondary yokes, and means securing each secondary yoke to the body and acting through the latter to hold the secondary yokes from a displacing reverse relative movement for maintaining the interlock operative.

2,667,657

WINDSHIELD WIPER

Emil E. Sivacek, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan

Application April 21, 1947, Serial No. 742,814
7 Claims. (Cl. 15—250)



6. In a windshield wiper mechanism, a wiper blade assembly including a wiper blade, a longitudinally extending channel member secured to said blade, a connector element secured to said blade for pivotal movement relative thereto in a plane perpendicular thereto, said connector element having a pair of spaced flat body portions integrally connected at their lower edges, said body portions being adapted to receive therebetween cooperating attaching means on an associated wiper actuating arm and cooperate therewith to connect said wiper assembly to said arm, and means on said body portions for preventing a reverse connection of said wiper blade assembly to said arm.

2,667,658

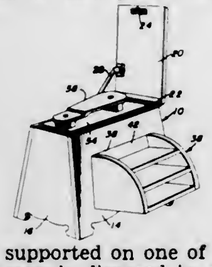
COMBINED STOOL AND CABINET

Carrington R. Cornick, Richmond, Va.

Application May 4, 1951, Serial No. 224,559
2 Claims. (Cl. 15—265)

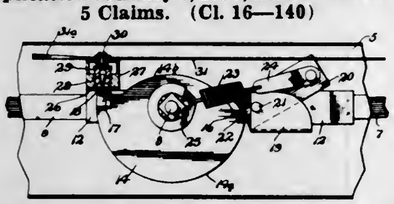
1. In a shoe shine cabinet including a pair of side walls and a pair of end walls, said cabinet

having an open top, an elongated shoe rest panel slidably received in the open top of the cabinet, blocks secured to said side walls each having a V-shaped groove therein, means carried by one end of the panel slidably received in the grooves, said grooves being so located to include horizontal portions and vertically inclined portions extending downwardly from the horizontal portions, the end of said panel remote from the



means being supported on one of said end walls when said means is disposed in said horizontal portions, and a shelf secured to said one end wall for supporting the panel when said means is disposed at the lower ends of said vertically inclined portions, and a vertically swingable closure hinged to one of said end walls for closing the open top of the cabinet, and means limiting opening of said closure.

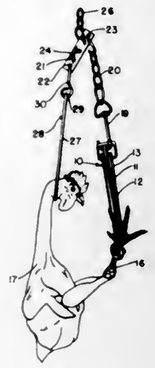
2,667,659
VENT WINDOW CONTROL
William A. Heidman, Grand Rapids, Mich.
Application January 3, 1950, Serial No. 136 486
5 Claims. (Cl. 16—140)



1. In a vent window for automobile bodies, means for mounting the vent window to turn about a vertical axis, including a vertical stem at a side of the window, a braking member having an arcuate edge secured to said stem, the arc at one end of said edge having a generally radially located shoulder, a braking bar pivotally mounted between its ends adjacent said arcuate edge of the braking member, the end of the bar nearest the braking member being longitudinally slotted for a short distance providing a fork having two spaced tines, and a coiled spring having connection at one end with the outer end of said bar and at its other end with said stem, the surfaces of said tines being adapted to bear against the arcuate edge of said braking member in one position of the bar, and the braking member at the juncture of said shoulder and its arcuate edge being adapted to enter said slot between the tines in another position of the bar.

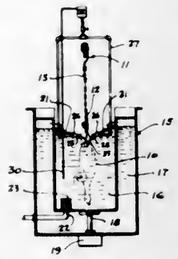
2,667,660
POULTRY PICKING SHACKLE
Irvin R. Lentz and Delos B. Van Dolah, Chicago, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois
Application May 5, 1951, Serial No. 224,800
2 Claims. (Cl. 17—44.1)

1. A poultry shackle including a teeter bar, support means attached to the teeter bar at a point between the ends thereof, a head hook connected to said teeter bar between said point and one end of said teeter bar, said head hook being substantially vertically suspended from said teeter bar, and a gripping means including a leg engaging portion connected to said



teeter bar between said point and the other end of the teeter bar, said gripping means being substantially vertically suspended from said teeter bar, said leg engaging portion being located a substantially greater distance below said support means than said head hook.

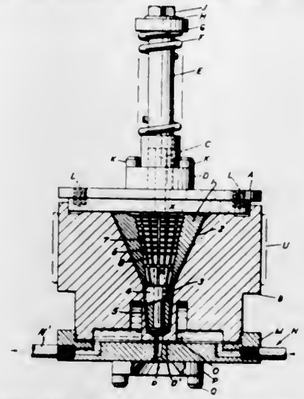
2,667,661
METHOD OF SCALDING POULTRY
Harry J. Long, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois
Application August 1, 1950, Serial No. 176,994
5 Claims. (Cl. 17—45)



1. A method of processing poultry in preparation for the picking of the feathers therefrom, including the steps of subjecting the bodies of the birds to a heated fluid and simultaneously subjecting the legs of the birds to a higher temperature fluid than that to which the bodies are subjected.

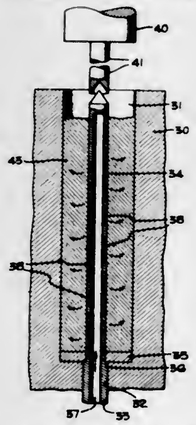
2,667,662
APPARATUS FOR MANUFACTURING PLASTIC SHUTTLECOCKS
William Charles Carlton, Hornchurch, England
Application March 9, 1951, Serial No. 214,759
Claims priority, application Great Britain February 19, 1951
7 Claims. (Cl. 18—42)

1. Apparatus for the injection molding of plastic shuttlecocks comprising, a female mold section having a conical cavity terminating at its smaller end in a well, means operatively connecting said female mold section with an injection nozzle, a male mold section movably mounted with respect to the female mold section and having a conical projection closely fitting within said cavity and further having a cap portion extending from said conical projection into said well in spaced relation to the walls thereof to provide an annular space, at least one of said mold sections having spaced main stem passages in its closely fitting conical face extending lengthwise thereof from said annular space, at least one of said mold sections further having in its closely



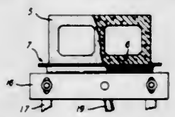
fitting conical face spaced rib passages extending circumferentially thereof and in communication with said main stem passages, at least one of said mold sections further having in its closely fitting conical face between each adjacent pair of said main stem passages a subsidiary stem passage extending lengthwise thereof, said subsidiary stem passages being in communication with said rib passages.

2,667,663
METHOD OF FORMING A BODY OF SALT
Leon Blasczyk, Glendale, Calif.
Application August 6, 1949, Serial No. 109,025
3 Claims. (Cl. 18—55)



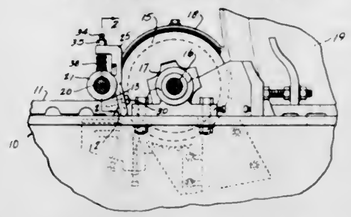
1. A method of forming a body comprising principally ammonium salt, comprising: applying heat to a plurality of grains of said salt for a period of time sufficient to remove more than 3% of moisture therefrom; applying about 3% of moisture to the surfaces of said grains; and immediately thereafter pressing said grains together so that by surface cementation they will be held together with such homogeneity as to resist rapid absorption of water into the body of salt.

2,667,664
METHOD OF FACING CONCRETE BLOCKS WITH TILE
Tom F. Ferrell, Arlington, Tex.
Application October 2, 1950, Serial No. 187,889
3 Claims. (Cl. 18—60)



1. The method of casting a tile surface on a surface of a concrete building block or the like, which consists in placing a pliable mixture of cement, sand and water, in a shallow horizontal mold being slightly larger than said surface of said block, vibrating said mold and its contents until the heavier particles therein settle to the bottom adjacent the upper surface of said mold, placing the building block to be surfaced on said mixture while the latter is still in a pliable state and allowing the weight of said block to bear thereagainst, again vibrating said mold with said block in its described position causing said mixture to penetrate the interstices of said block, allowing said mixture to dry in said mold, and subsequently removing said mold.

2,667,665
FEED ROLL MOUNTING FOR CARDING MACHINES
Truman G. Gray, Greenville, S. C., assignor to Robert J. Higginbotham, Charlotte, N. C.
Application December 5, 1952, Serial No. 324,347
4 Claims. (Cl. 19—105)



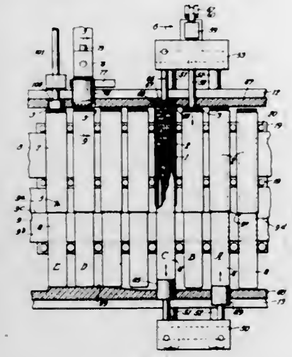
1. In combination with a carding machine feed plate and a feed roll disposed above said feed plate and adjacent the discharge edge of the latter and having arbors projecting coaxially one from each end thereof, a mounting for said feed roll comprising mounting assemblies disposed one at each end of the feed roll and each including an angle bracket having first leg disposed against the discharge edge of said feed plate and extending upwardly therefrom, and a second leg extending substantially perpendicularly from said first leg above said feed plate and inwardly of the discharge edge of the latter, means securing said first bracket leg to said feed plate, a bearing sleeve of cylindrical shape having a bore extending longitudinally therethrough receiving the corresponding feed roll arbor and having a flattened side portion engaging the side of said first bracket leg adjacent said feed plate, said second bracket leg having a tapped hole therein and said bearing sleeve having a recess therein substantially in vertical alignment with said tapped hole, a stud threaded through said tapped hole, a lower spring abutment seated in said recess, an upper spring abutment seated on the lower end of said stud, and a compression spring disposed between and in engagement with said upper and lower spring abutments.

2,667,666

TAMPON APPLICATOR ASSEMBLY CONDITIONING METHOD AND APPARATUS

John M. Graef and Kenneth J. Harwood, Neenah, and Reinhardt N. Sabee, Appleton, Wis., assignors to International Cellucotton Products Company, Chicago, Ill., a corporation of Delaware

Application May 13, 1949, Serial No. 93,044
12 Claims. (Cl. 19—144.5)



1. The method of conditioning a tampon structure which embodies a tampon partially telescoped into one end portion of an applicator tube and an ejector tube which is partially telescoped into the other end portion of the applicator tube, comprising the steps of propelling a tampon and applicator structure as aforesaid, laterally, step by step, in one position of rest of the structure applying pressure to the exposed end of the tampon while holding the applicator tube against endwise movement in the direction in which said pressure is applied to the tampon, and in a succeeding position of rest applying pressure to the exposed end of the ejector tube to urge the ejector tube to move inwardly of said applicator tube and the other end of said ejector tube into engagement with the tampon portion within the applicator tube while also holding said applicator tube against endwise movement in the direction in which said last mentioned pressure is applied.

2,667,667

ACOUSTIC CEILING CONSTRUCTION

Victor Jacobson, New York, N. Y., assignor, by mesne assignments, to Level-Line Ceilings, Inc., New York, N. Y., a corporation of New York

Application November 5, 1948, Serial No. 58,439
3 Claims. (Cl. 20—4)



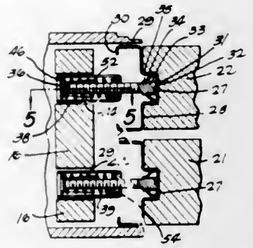
1. An acoustic ceiling construction comprising alternate rows of sound absorptive and sound reflective elements, the sound absorptive elements comprising blocks of cellular material, the sound reflective elements comprising vibratory metallic sheets formed into substantially channel shape to provide a web portion lying in the plane of the exposed surface area of the ceiling, and upwardly extending flange portions having hook-like formations constituting means for suspending the sound reflective elements from a primary ceiling member, said flange portions joined to said web portion by bends providing laterally disposed shelves for supporting said blocks, and clip-bars disposed over said blocks at spaced intervals, said bars having end formations complemental to and engageable with the hook-like formations of the flanges of said sound reflective elements to tie together two laterally adjacent rows of said sound reflective elements.

2,667,668

WINDOW CONSTRUCTION

Fred C. Osten, Sr., Detroit, Mich.

Application January 10, 1952, Serial No. 265,843
3 Claims. (Cl. 20—12)



1. In a window construction adapted for mounting in a window frame having oppositely disposed side rails and embodying a slide rail for engaging with a slidable sash and having a threaded member rotatably mounted on the slide rail in fixed axial relation thereto and projecting from one side toward a side rail of the frame: a housing projectable at one end into a recess formed in a side rail of said frame and extending at its opposite end outwardly beyond the face of said rail of said frame, said opposite end having a central opening formed therein in alignment with said screw; a nut positioned in said housing and non-rotatable therein and having a threaded opening in alignment with said screw for reception of the same, the inner end of said housing being open; a pair of tongues punched outwardly from opposite sides of said housing and engageable with the outer face of said side rail of said frame for providing means for securing said housing in said recess; and a retaining clip mounted in the open end of said housing and having a pair of oppositely directed tongues for engaging in the slot formed in said side walls upon punching of said first named tongues therefrom for closing said open end of said housing; and a spring positioned in said housing and engaging at one end against said nut and at its opposite end against said clip.

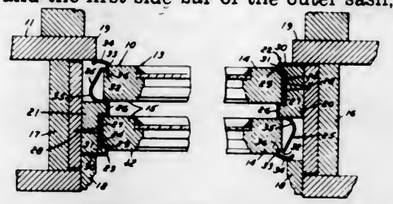
2,667,669

WINDOW CONSTRUCTION

John T. Cook, Farmington, and Leon E. Willett, Detroit, Mich., assignors to Chamberlin Company of America, Detroit, Mich., a corporation of Michigan

Application September 15, 1952, Serial No. 309,614
10 Claims. (Cl. 20—52.2)

6. In combination with a window having spaced vertically extending first and second jambs, inner and outer sashes supported between said jambs for relative sliding movement therein in a vertical direction, said sashes having first side bars positioned adjacent the first jamb and having second side bars positioned adjacent the second jamb, the first side bar of the inner sash and the second side bar of the outer sash being spaced laterally inwardly from the adjacent jambs, combined sash guide and weatherstrip elements respectively positioned between the jambs and the adjacent side bars of the sashes, said elements having vertically extending channel-shaped guides respectively secured to the jambs in positions to respectively slidably engage the second side bar of the inner sash and the first side bar of the outer sash, said



elements also having flexible wing parts which project laterally in opposite directions from the respective guide parts and respectively extend between the jambs and adjacent sides of the sashes, said wing parts having substantially channel-shaped portions respectively slidably engageable with the first bar of the inner sash and with the second bar of the outer sash, and stops fixed relative to the jambs and respectively engageable with the free edge portions of the flexible wing parts.

2,667,670

STORM WINDOW

Benjamin S. Wilson, Akron, Ohio

Application December 8, 1949, Serial No. 131,789
1 Claim. (Cl. 20—55)



A storm window construction comprising a pair of spaced parallel vertically disposed wedge-shaped window stops, a sash having vertical portions, said stops and said sash having complemental beveled vertical edges, complemental registering recesses in said vertical portions and said stops, a vertical sealing strip secured to each of said vertical edges, horizontal pins rotatably supported on said vertical portions and extending into the recesses in said vertcal portions, cam members fixed on said pins and positioned in the recesses in said vertical portions, said cam members having angulated end portions provided with convexed edges for entering the recesses in the stops to ride against a vertical wall of each recess in the stops as the pins are rotated in one direction to force the sealing strips on the stops against the beveled edges of said sash and the sealing strips on the sash against the beveled edges of the stops.

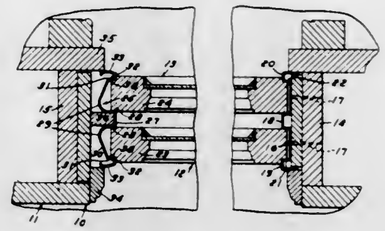
2,667,671

WINDOW CONSTRUCTION

John T. Cook and Leon E. Willett, Detroit, Mich., assignors to Chamberlin Company of America, Detroit, Mich., a corporation of Michigan

Application May 5, 1952, Serial No. 286,176
9 Claims. (Cl. 20—69)

1. In combination with a window casing having a vertical side member, a sash supported for vertical sliding movement relative to the side member and stops on the side member at opposite sides of the sash, a combined sash guide and flexible weather strip having a part seated on the first stop at the inner side of the sash and having a flexible wing part extending toward the second stop between adjacent faces of the side member and sash in spaced relation to both said faces, said strip having a portion at the free edge slidably engageable with the inner side of the second stop and having portions adjacent said free edge respectively engageable with the



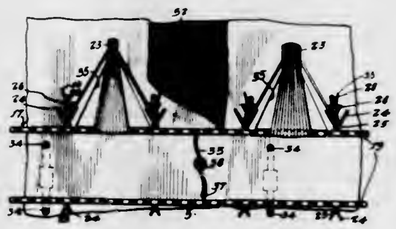
edge of the sash facing the side member and with the adjacent outer surface of said sash, and guide means slidably engageable with the opposite side edge of the sash and holding said sash in a position wherein the wing part of said strip is under tension, the spacing of said wing part relative to the adjacent faces of the side member and sash and the extent of movement of the wing part toward the side member upon shifting of the sash toward said member being sufficient to release the opposite side of the sash from the guide means to permit removal of the sash.

2,667,672

BOOK STERILIZING MACHINE

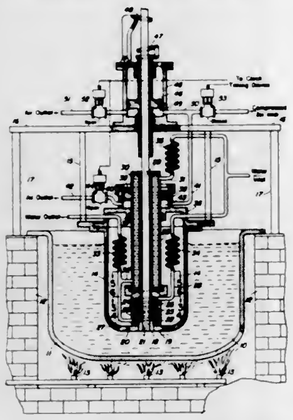
Marshall Eltinge, Salt Lake City, Utah

Application October 9, 1950, Serial No. 189,197
3 Claims. (Cl. 21—76)



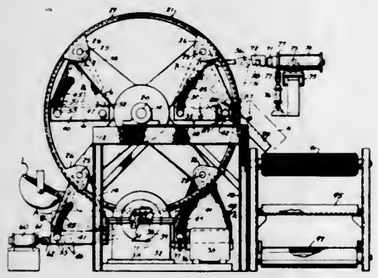
1. In a device for sterilizing books and the like, walls forming a chamber, conveyors for moving books and the like longitudinally through said chamber, V-shaped channel members secured to said conveyors transversely thereof, said channel members having upstanding arms forming troughs and spaced so that the edges of the covers of said books may be inserted into said troughs for supporting the books with the pages thereof depending freely between the covers, hold-down members operably associated with said channel members for clamping the book covers in place, means for introducing a gaseous germicide into said chamber, and means for riffling the pages of the books as they progress through the chamber.

2,667,673
APPARATUS FOR CASTING METALLIC ROD
George Harrison, Berwyn, Ill., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
Application March 19, 1951, Serial No. 216,406
4 Claims. (Cl. 22—57.2)



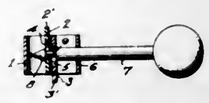
1. In an apparatus for casting metal rod of continuous length from molten metal, the combination comprising a die tube in which molten metal is solidified, said die tube having an upwardly tapering exterior surface, a cooling jacket having an upwardly tapering interior surface adapted to mate with said die tube, means for intermittently withdrawing from said die tube a cast rod of continuous length, means for alternately lowering and raising said cooling jacket so that its interior surface is in and out of contact with the exterior surface of said die tube, means for synchronically and automatically operating said cooling jacket lowering and raising means and said withdrawing means so as to move said cooling jacket surface out of contact with said die tube during the withdrawal of said cast rod and to move said cooling jacket surface in contact with said die tube concurrently with said withdrawing means assuming its position preparatory to subsequent withdrawing action.

2,667,674
APPARATUS FOR MAKING CASTINGS
Russell J. Hines, Lakewood, Ohio, assignor, by mesne assignments, to Hines Flask Company, Cleveland, Ohio, a corporation of Ohio
Application April 21, 1951, Serial No. 222,280
5 Claims. (Cl. 22—75)



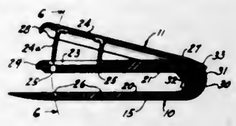
5. An apparatus for making castings comprising in combination, a wheel operatively mounted for rotation about a horizontal axis to a fixed discharge station, a plurality of carriers each pivotally mounted on a horizontal axis carried by the wheel and circumferentially spaced from each other about the wheel, each carrier having a platform support, a platform pivoted about a horizontal axis on the support in each carrier and adapted to support a mold, stationary means at the discharge station for rotating the platforms about their pivots, and stationary means at the discharge station for holding the carriers stationary.

2,667,675
SAFETY CLASP
Pedro A. Brutti, Buenos Aires, Argentina
Application July 23, 1951, Serial No. 238,088
1 Claim. (Cl. 24—155)



A safety clasp for use with a pin having a neck and a sharpened head including a resilient open ring, apertured tongues continuing from the ends of the ring inwardly and transversely of the ring and arranged in juxtaposed relation with respect to each other and with the apertures slightly out of alignment with respect to each other, one portion of the ring opposite the apertures acting as a guard and the other portion having an aperture for receiving the pin, and projections integral with and extending from the upper edge of one tongue and the lower edge of the other tongue whereby when pressure is exerted thereon the tongues are moved to register the apertures therein so that the sharpened head may pass therethrough and be arranged behind the guard portion of the ring while when pressure is released the apertures in the tongues engage the neck and prevent accidental release of the pin.

2,667,676
SAFETY PIN
Julian E. Sampson, St. Louis, Mo.
Application June 7, 1951, Serial No. 230,280
3 Claims. (Cl. 24—160)



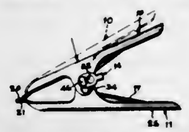
1. In a pin fastener, a member having a slot for receiving layers of material to be fastened and including a base and upper and lower legs, apertures extending through one leg, said apertures being longitudinally aligned and connected by a groove in the outer face of said leg, a lever, a pin member fixed to the undersurface of said lever, said pin member being of U-form with its medial body portion arranged for seating in said slot when the pin members extend through said apertures during movement of the lever, said pin members being so positioned as to pass through said apertures and to abut the opposite wall of said slot when said lever is in fastening position, a pivot for said lever extending through said base for pivotally supporting said lever inwardly of one end, a recess in the base of said slotted member, a spring in said recess engaging the adjacent free end of said lever and normally biasing said lever to a fastening position, and stop means on said slotted member for engagement with said lever as it is moved to open position for preventing withdrawal of said pin fully from said apertures.

2,667,677
BELT BUCKLE
Harry Ganz, New York, N. Y., assignor to Bac-A-Brand Products, Inc., New York, N. Y., a corporation of New York
Application March 23, 1951, Serial No. 217,132
7 Claims. (Cl. 24—176)



1. A one-piece molded plastic belt buckle for use with a thin belt comprising a plate having a central opening therein, a transverse bridge-piece integral with said plate dividing said opening into two parts, a stationary tongue projecting from one end of said buckle inwardly toward the bridge piece, first and second substantially parallel bars attached to the rear face of said bridge-piece and spaced therefrom, said bars being at the lateral edges of said piece, and serrations on the face of the second of said bars adjacent to said piece, whereby the end of a belt may be threaded over said first bar and around the other bar and then over the first bar to retain said belt on said buckle without the necessity of stitching said end of said belt.

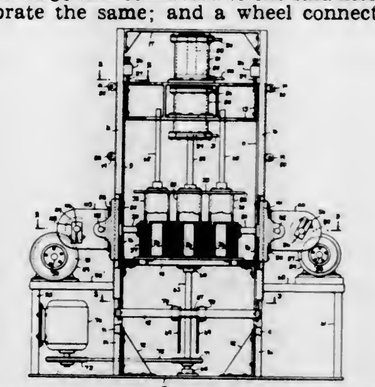
2,667,678
HAND CLAMP
John M. Hargrave, Cincinnati, and Delbert L. Farmer, Norwood, Ohio
Application April 28, 1950, Serial No. 158,792
4 Claims. (Cl. 24—253)



4. A hand clamp comprising a pair of pivotally connected lever arms, each arm having a handle end and a clamping jaw, one of said lever arms having formed therein a plurality of pivot pin receiving sockets joined by a neck portion, the other of said arms being configurated to form a plurality of pin receiving apertures, a pivot pin disposed through a socket of said socketed arm, and an aperture of the other arm, said pivot pin pivotally interconnecting said arms, a rotatable key for rotating the pivot pin, said key having a deformed surface area facing inwardly toward said sockets, the distance between said area and said pivot pin corresponding to the distance between a pair of said sockets and means diverging the handle ends of said clamping arms and converging the clamping jaws of said clamping arms, said means comprising a coil spring embracing said pin and having two extensions engaging said arms at their respective ends.

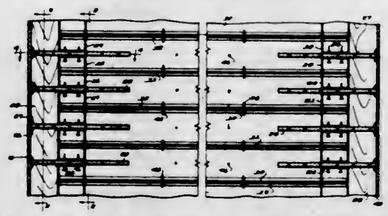
2,667,679
APPARATUS FOR MOLDING BUILDING BLOCKS
Frederick H. Jackman, Santa Fe, N. Mex.
Application June 1, 1949, Serial No. 96,533
10 Claims. (Cl. 25—41)

1. An apparatus for molding building-blocks, including in combination: a frame having means designed and adapted to support a wet concrete mix; a drive-wheel associated with the said frame; a carriage movable with respect to the said frame, support-means and drive-wheel; a mold-box carried by the said carriage and movable therewith toward and away from the said support-means; a vibrator also carried by the said carriage and connected to the said mold-box to vibrate the same; and a wheel connected to



the said vibrator to operate the same, the said wheel being carried by the said carriage and constructed and arranged to engage with the said drive-wheel when the said movable carriage is in an advanced position and to disengage from the said drive-wheel when the said carriage is retired.

2,667,680
CONCRETE DECK AND WALL FORM CONSTRUCTION
Takeo Sato, Honolulu, Territory of Hawaii
Application June 19, 1951, Serial No. 232,358
7 Claims. (Cl. 25—131.5)

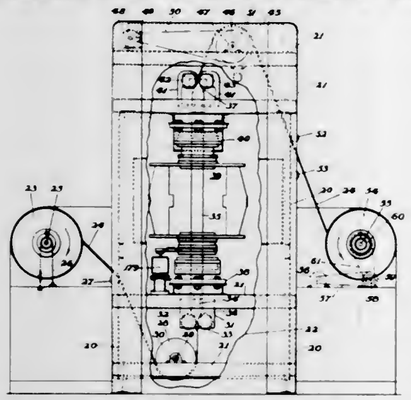


1. A collapsible concrete form comprising an elongated section channel-shaped in cross section and having spaced box-like members in the ends, and tongues having flanges on extended ends thereof adjustably mounted between the said box-like members.

2,667,681
NAPPER
Roland E. Langlois, West Warwick, and Louis G. Blumenbaum, Cranston, R. I., assignors to Paul L. Schulz, Philadelphia, Pa.
Application April 3, 1951, Serial No. 218,942
25 Claims. (Cl. 26—34)

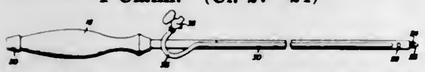
3. In a napper for tubular cloth, a rotating assembly, a mandrel disposed axially within said assembly, means for feeding the tube of cloth over said mandrel, pile napping belts in said assembly, means for mounting said pile napping belts for rotation, means for moving said mounting means toward and away from said mandrel and the tube of cloth to permit napping of tubes of cloth of various diameters and to adjust the tension of said pile napping belts with respect to the tube, counterpile napping belts in said assembly, means for mounting said counterpile napping belts for rotation, means for moving said last named mounting means toward and away from said mandrel and the tube to permit napping of tubes

of cloth of various diameters and to adjust the tension of said counterpile napping belts with respect to the tube, means for rotating said assembly including power take-off means for rotating said napping belts, change speed gearing in said



power take-off means to provide a basic velocity for said belts equal to the product of the R. P. M. of said assembly and the diameter of the tube, and means for supplying a limited variation to said basic velocity.

2,667,682
TROCAR
Richard E. Stone, Cocoa, Fla.
Application May 8, 1950, Serial No. 160,705
1 Claim. (Cl. 27—24)



A trocar comprising a tube, a tubular handle on one end portion of said tube communicating therewith, the other end portion of the tube having a plurality of intake ports therein, a closure in said other end portion of the tube, a vent pipe mounted longitudinally and exteriorly on the tube and communicating therewith at said other end portion thereof, said vent pipe terminating in a substantially U-shaped inner end portion free of the tube and extending angularly thereacross and providing a finger grip adjacent the handle, and a manually actuated control valve on the inner end of the vent pipe operable from the handle.

2,667,683
SEPARATOR FOR LEASED WARP THREADS
Heinrich Meier, Uster, Switzerland, assignor to Zellweger A. G., Apparate- und Maschinenfabriken Uster, Uster, Switzerland
Application March 16, 1949, Serial No. 81,671
Claims priority, application Switzerland April 6, 1948
6 Claims. (Cl. 28—43)



1. In apparatus for separating leased warp threads of the type having two lease rods for grouping the warp thread rockably about an axis parallel to the lease rods and outside the lease, the improvement comprising the provision of a rockable shaft located outside the crossing of the threads and extending parallel to the lease rods, said rockable shaft having a first operating element and also a further operating element, said further operating element being connected with the first operating element to turn therewith but slidable axially relative thereto, whereby combined rocking and sliding movement produces a helical movement of the further element.

2,667,684
HIGH-TEMPERATURE PACKING
John R. Boyer, Avondale, Pa., and Richard M. Luckring, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Original application June 21, 1949, Serial No. 100,452. Divided and this application August 29, 1951, Serial No. 244,251
2 Claims. (Cl. 28—75)



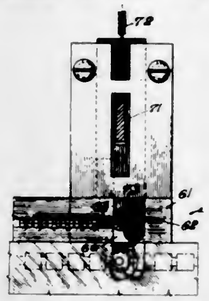
1. The method of manufacturing a temperature-resistant fibrous joint packing formed into strands from a number of substantially pure silica fibers, comprising coating a plurality of the strands with a lubricating material and a particulate temperature-resistant sealing medium, plaiting said strands into a succession of superimposed layers disposed one over another to form a composite braid, preshrinking the resulting composite braid by exposure to temperatures of 800° to 1000° C. in an atmosphere of an inert gas, and cooling the braid to room temperature.

2,667,685
PAD FOR IRONER ROLLS
Samuel A. Obitz, Pittsburgh, Pa., assignor to Pittsburgh Waterproof Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 2, 1951, Serial No. 254,508
1 Claim. (Cl. 28—78)

An ironer roll pad adapted to be wrapped once around an ironer roll and having roves therein connected together in unitary relation, and a cloth covering overlying the roves and secured thereto, the pad being of stepped formation in directions transversely of the roves, there being thicker roves symmetrically disposed to either side of the longitudinal mid line of the pad, and thinner roves symmetrically disposed at opposite sides of the thicker roves, the thicker roves being of approximately uniform thickness and the thinner roves being of uniformly lesser thickness which is not greater than approximately two-thirds the thickness of the thicker roves, the thinner roves having a total combined width which is less than that of the thicker roves.

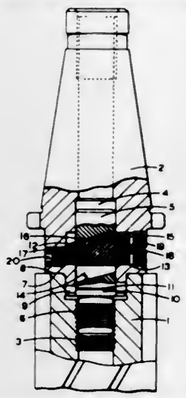
2,667,686
GEM SETTING APPARATUS
John D. Richardson, Riverside, R. I., assignor to John Moretti, Cranston, R. I.
Application May 5, 1950, Serial No. 160,121
7 Claims. (Cl. 29—10)

1. In a gem setting apparatus, a work guideway and a separate gem guideway, said guideways being directed in parallel paths and in generally parallel planes, a slidable member at the end of said gem guideway and in the plane of said guideway for transferring a gem from its path into a position vertically aligned with reference to the work, means for engaging and moving the said gem into engagement with said slidable member and means operable in a plane at right



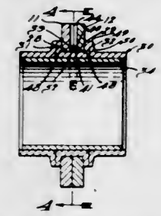
angles to the planes of said guideways to move the gem and work into contact and clinch a portion of the work over the gem.

2,667,687
TOOLHOLDER
Frank Henry Clarkson, Coventry, England
Application November 19, 1951, Serial No. 257,140
3 Claims. (Cl. 29—103)



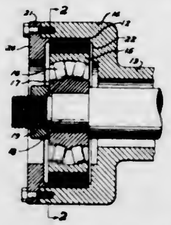
1. A rotary tool and shank therefor comprising in combination a rotary tool having a co-axial threaded bore therein and a shank comprising a shank body part having a co-axial bore in an end face thereof and also a transverse bore closed at one end and communicating with said co-axial bore; a co-axial member non-rotatably located for axial movement in the co-axial bore of said shank body part and having a transverse bore formed with an inclined surface which bore registers with the transverse bore in the shank body part, whilst said co-axial member also has a threaded portion extending from the end face of the shank body part for receiving the rotary tool screwed thereon against said end face; a transverse member located in the transverse bores in said shank body part and co-axial member and having a complementary inclined surface co-acting with the inclined surface of the transverse bore in the co-axial member, so that outward movement of the latter relative to the shank body part is prevented except on axial movement of the transverse member; a screw in the transverse bore of the shank body part for abutment with one end of said transverse member in order to impart axial movement thereto for permitting limited outward axial movement of the co-axial member to free the rotary tool for unscrewing from the shank; and a spring between the closed end of the transverse bore in the shank body part and the other end of said transverse member for urging the latter to abutment with said screw.

2,667,688
METHOD OF CONSTRUCTING ROCKER ARMS
John R. Winter, Jr., Detroit, Mich., assignor to John R. Winter, Sr., Detroit, Mich.
Application August 11, 1950, Serial No. 178,930
3 Claims. (Cl. 29—148)



1. The method of manufacturing a rocker arm assembly which comprises forming an arm from laminations of sheet metal having aligned circular openings and having an inwardly directed enlarged portion constituting a generally radial enlargement of said openings, rigidly anchoring a metallic tubular element of circular cross section in said openings by peripherally fitting said element in the openings with said element bridging said enlargement, axially compressing the element while simultaneously rigidly and positively confining the tubular element against both inward and outward deformation by means of rigid metallic dies engaging the interior of said element and also engaging the exterior of said element on either side of said laminations, and continuing the axial compression so as to cause a part of said element to deform outwardly into said enlargement.

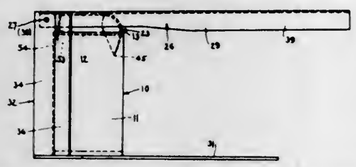
2,667,689
METHOD OF MAKING BEARING MOUNTINGS
Walter J. Parks, Aurora, Ohio
Original application June 26, 1948, Serial No. 35,433, now Patent No. 2,532,327, dated December 5, 1950. Divided and this application October 14, 1950, Serial No. 192,098
3 Claims. (Cl. 29—148.4)



1. The method of forming a bearing mounting which is radially rigid and axially flexible which consists of taking two generally cylindrical members, sections of which in the axial direction are concentric shells and the ends of which are arranged to permit limited axial movement, forming an opening in the wall of the concentric portion of the outer shell, inserting at least one strip of material in said cylindrical shell, said strip having a taper formed longitudinally thereof in thickness which is approximately equal to the

thickness of a predetermined strip, and winding a strip on the inner shell forming a plurality of layers until the strip completely fills the space remaining between the concentric shells, causing compression and tension in the inner and outer member respectively, and then severing the strip at the opening.

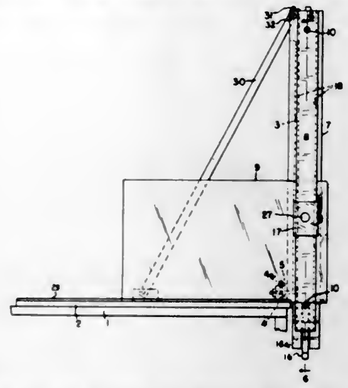
2,667,690
CAN OPENER AND THE LIKE
Franz K. Krag, Chicago, Ill.
Application May 31, 1952, Serial No. 290,845
3 Claims. (Cl. 30—10)



1. Means to perforate the top of a cylindrical container comprising in combination, a lever arm, means to pivot said lever arm for rock on a fixed axis of rock, and a cutter connected to said arm, said cutter comprising a blade element of V-shaped cross-section and including a pair of wings extending outwardly from the connecting line of the V of said blade element and away from the axis of rock of the lever arm, said wings lying at an angle of the order of ninety degrees to each other and the connecting line of said blade element lying in a plane substantially normal to the axis of rock of the lever arm and lying at an angle with respect to the radius of rock of the lever arm on said pivotal axis which angle is at least substantially ninety degrees at the convex side of the blade element, the wings of the blade element being of substantially triangular form, the V of the blade element comprising a common side for both of the triangular shaped wings and the apices of both wings being located at a common point on the V of the blade element and constituting a container top perforating point, the other sides of the blade element which sides extend from said perforating point extending outwardly from said perforating point and being sharpened to provide container top cutting edges which are separated from each other by a progressively increasing distance measured on successive planes which planes all contain the axis of rock of the lever arm and also pass through the wings of the V blade element at successive planar angles commencing at the perforating point, the said sharpened sides of the wings being of formation such that during rock of the lever arm on the pivotal axis the points of intersection of said cutting edges with a stationary plane shift in opposite directions from a common point and on circular arcuate segments of a common circle to thereby develop a combined arcuate segment of size equal to the combined cutting effects of both of the cutting edges progressively intersecting said stationary plane.

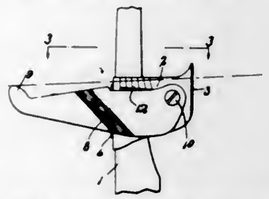
2,667,691
GLASS CUTTING MACHINE
Paul Marton, Windsor, Ontario, Canada
Application September 7, 1951, Serial No. 245,527
3 Claims. (Cl. 33—32)

1. In a glass cutting machine, an elongated guide bar engageable with one side of a glass plate, a carriage slidable upon and along said bar, a glass cutter pivotal on the carriage and including a cutting tool engageable with the glass plate by pivotal actuation of the cutter, a coiled spring on the carriage urging the cutter in a direction to engage the tool with the glass plate, said spring being tensionally effective at one of



its ends on the cutter, an anchorage member for the other end of said spring, means pivoting the anchorage member on the carriage for varying the spring tension, and an adjusting screw regulating the pivotal position of the anchorage member.

2,667,692
BOW SIGHT
Douglas J. Leafstrand, Ludington, Mich.
Application November 23, 1951, Serial No. 257,742
4 Claims. (Cl. 33—46)

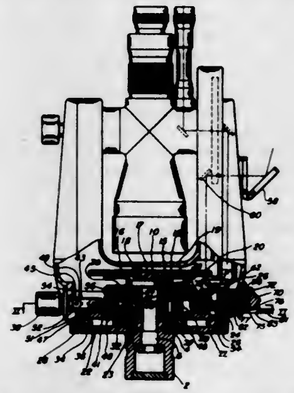


1. A bow sight comprising a plate of flat metal having an intermediate section and end sections, one at each end of the intermediate section disposed substantially at right angles to the intermediate section and extending therefrom in opposite directions, one of said end sections having a rear sight opening therethrough, and a sight arm located alongside said intermediate section and extending at one end from adjacent said rear sight end section away from said rear sight section, at its outer end having an upwardly extending front sight, a bolt passing through the inner end of said sight arm and intermediate section, and a tightening nut on said bolt to secure the arm in a fixed relation to said intermediate section in any selected position thereof to which adjusted.

2,667,693
SURVEYING INSTRUMENT
Allister L. Baker, Jersey City, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application March 5, 1949, Serial No. 79,791
8 Claims. (Cl. 33—72)

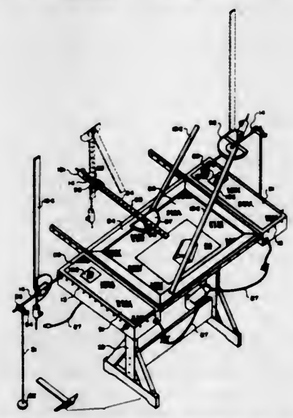
1. In a surveying instrument the combination comprising a main bearing which may be mounted on a levelling head, said main bearing

having a vertical bore passing completely therethrough and at least a portion of which forms an inside bearing surface of said main bearing, a male center centered within said inside bearing surface of said main bearing, means carried at the bottom end of said male center engaging a lower horizontal surface of said main bearing and preventing any substantial vertical movement of said male center, a protractor scale mounted on said male center, an outer center



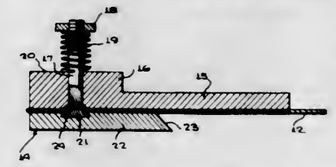
centered around an outside bearing surface of said main bearing, an alidade having a telescope mounted on said outer center, said main bearing having an extension above said outer center, clamp means acting between said alidade and said extension of said main bearing above said outer center, fine adjustment means associated with said clamp means and acting between said alidade and said main bearing and clamp means between said alidade and said protractor scale.

2,667,694
PERSPECTIVE DRAWING MACHINE
Daniel J. McQuaid, Sr., and Frederick William Riehl, Denver, Colo.; said Riehl assignor to said Daniel J. McQuaid
Application December 27, 1949, Serial No. 135,194
2 Claims. (Cl. 33—77)



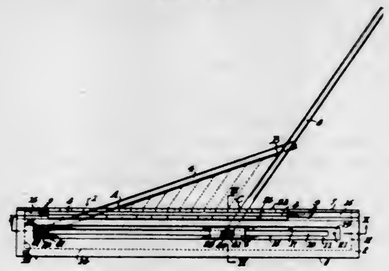
2. A perspective drawing machine, comprising a rectangular frame, including a flat top surface centrally of the frame for the support of material to be drawn on, and an adjoining surface for the support of copy to be drawn, a plurality of openings at intervals along the length of the frame exteriorly of said drawing and copy-supporting surfaces, two bodies adapted for attachment to opposite sides of said frame and a third body adapted for attachment to the top edge of said frame, each including at least one rod for selective penetration of said openings, and guide means in pivotal connection with each said body having a straight edge in radial alinement with the pivotal axis and extending over the drawing surface, and said side-mounted guide means also extending over the copy surface so as to permit perspective enlargement of the copy lines on said drawing surface.

2,667,695
ADJUSTABLE TIGHT LINE HOLDER
Lawrence Price, Carlton, Pa.
Application February 21, 1952, Serial No. 272,869
1 Claim. (Cl. 33—85)



A guide line holder comprising a base block having a groove extending throughout the length of one side face thereof, a stop carried by the block and projecting outwardly from the side face thereof remote from the groove, said block having an opening extending transversely therethrough and intersecting the groove, a pin extending through the opening in the block for movement transversely relative to the block, a clamp plate carried by the pin for movement therewith adjacent the grooved face of the block, and yielding means carried by the pin and bearing on the block for yieldingly urging the clamp plate into clamping engagement with a guide line lying in the groove.

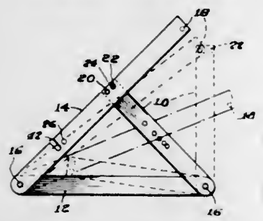
2,667,696
PROPORTIONAL INTERPOLATOR
Casper J. Ackermann, Omaha, Nebr.
Application June 19, 1951, Serial No. 232,434
2 Claims. (Cl. 33—98)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A geometrical instrument for the division of a given distance into any number of equal or proportional parts comprising an elongated base member having a straight longitudinal edge, said base member being tapered on one face toward said edge, and being recessed on the face opposite the taper; said base member being formed with an elongated slot parallel to and spaced from said straight longitudinal edge and

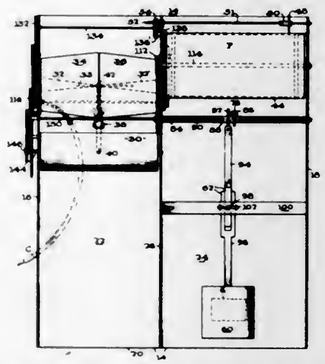
with a hole through the base member at one end of said slot, said hole being in line with and spaced slightly from the end of said slot; a first removable pivot means in said hole; a first straight-edged rule removably pivoted adjacent one end thereof to the base member by said first pivot means and lying in a plane parallel to but spaced from the plane of said straight longitudinal edge and the interior surface of the recessed portion of the base member; means for immobilizing said first rule with respect to said first pivot means; an elongated slide removably secured in said slot for movement longitudinally thereof; a second pivot means on the slide; a second straight-edged rule in a plane parallel and contiguous to the planes of the said first rule and said base and being removably pivoted at one end thereof to the slide by said second pivot means whereby the two said rules may be pivoted from positions within the recessed portion of the base member to positions of intersection in space beyond said straight longitudinal edge of the base member with said rules, said point of intersection and said straight longitudinal edge substantially in a common plane; means for immobilizing said second rule with respect to said second pivot means; said base member being formed with an elongated dovetailed track groove on the tapered portion of the base parallel to both the said straight longitudinal edge and the said slot and intermediate thereof, and extending the entire length of the base; and an elongated scale being tapered to a straight edge having calibrations and being provided with a projecting dovetailed tenon, each extending the length of the scale, mounted on the tapered portion of said base with said tenon engaged in said track groove and with said straight edge of the scale being immediately superimposed on said longitudinal straight edge of the base whereby the first straight-edged rule may be set at an angle to the base and placed along the distance to be divided with one end of the distance at the intersection of the rule and the straight longitudinal edge, the scale moved so that one end also corresponds to said one end of the distance, the second straight-edged rule set to indicate the line between the other end of the distance to be divided and a calibration value on the scale that is divisible by the number of equal parts into which the given distance is to be divided or the common denominator of proportional parts, and the slide moved to propel the second straight-edged rule in a plane contiguous to said first rule through parallel positions which will divide the given distance into the desired portions.

2,667,697
MEASURING RULE
Walter O. McGrath, Newtonville, Mass.
Application August 8, 1952, Serial No. 303,354
1 Claim. (Cl. 33—105)



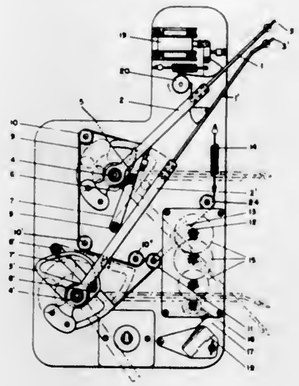
A measuring rule of the character described comprising three rule sections including an intermediate section and two outer sections having ends hingedly connected whereby the sections may be folded relative to one another, the end of each outer section having a pin therein for insertion into one of a plurality of openings formed in each of the opposing outer sections for detachably connecting the sections to form different angles, the pins in opposing outer sections being extended in opposite directions from their respective sections, one of said sections having a slot therein to provide clearance for one of said pins when the rule is folded into its collapsed condition, said intermediate section being in one plane and both outer sections being connected to the same face of said intermediate section to dispose the outer sections in another plane whereby an edge of said intermediate section may be placed flat against a surface to be marked without interference by the ends of the adjacent outer sections, and the length of said three sections being proportioned in the ratio of three, four and five respectively, the openings in one of said outer sections being arranged for cooperation with the pin in the other outer section to form angles corresponding to predetermined rises in inches per foot run.

2,667,698
PROFILE RECORDING MACHINE
Norman L. Bryan, Jr., Deland, Fla.
Application December 27, 1949, Serial No. 135,178
13 Claims. (Cl. 33—141.5)



1. In a profilograph, the combination comprising two aligned and similar conical members connected at their apexes for rotation together, two similar frustums supported base to base for rotation relative to each other about a common axis that is parallel to the axis of said conical members, a spaced parallel pair of mutually complementary rotatable drums extending parallel to the conical members and frustums in a plane spaced therefrom, said frustums being spaced from said conical members and respectively complementary in shape with respect thereto, an operating device slidable in a plane between the plane of said conical members and frustums and the plane of said drums, parallel to the axes thereof, said operating device having an upstanding arm carrying a drive wheel extending between said conical members and frustums, and a depending arm carrying a drive wheel extending between said drums, said arms each slidable in a plane which extends at right angles to the direction of movement of said operating device, a pendulum connected with said operating device and arranged to swing in a plane parallel to the direction of movement of said operating device, means for supporting and moving a record strip in response to rotation of one of said drums, a marking device arranged to move transversely across the record strip in response to rotation of one of said frustums, and means responsive to movement of the profilograph along the terrain for rotating said conical members and one of said drums.

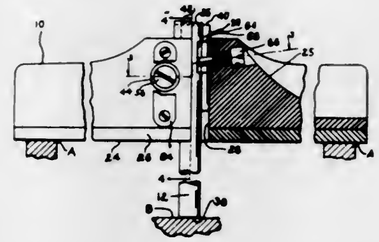
2,667,699
APPARATUS FOR MEASURING EXTENSION OF SAMPLES UNDER TENSION
Jack Mitchell Buist and Guillaume Ward Jamin, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
Application October 12, 1950, Serial No. 189,788
Claims priority, application Great Britain September 25, 1950
4 Claims. (Cl. 33—148)



1. Apparatus for measuring the extension under tension of a sample of rubber or the like which comprises a pair of telescopic arms each of which is co-pivoted at one end with a cam, each of said cams having a pivoted cam-follower, light spring clip members on the free ends of said arms to be attached to the sample of material being tested, all of said elements being arranged so that the angular motion of said cam-followers is directly proportional to the linear motion of the point of attachment of the said clip members on the ends of said telescopic arms, a movable indicating and recording carriage, and means for transmitting the motion of said cam-followers caused by the elongation of said sample being tested to said carriage.

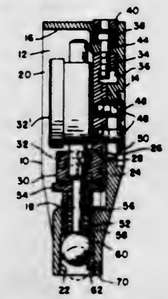
2,667,700
GAUGE
Lambert R. Pistoles, Wilmington, Del.
Application October 19, 1946, Serial No. 704,347
10 Claims. (Cl. 33—169)

5. In a flush-pin gage, a frame having a work engaging face, an aperture in the frame extending perpendicular to said face, sleeve means freely slidable within said aperture, a gage pin slidable within said sleeve means, flush-pin gage faces on the end of said pin and sleeve means, and transverse wedge means arranged in said



frame for at will locking said sleeve means against movement in said frame.

2,667,701
GAUGE UNIT
Arthur G. Davis, Grosse Pointe Park, Mich.
Application September 8, 1952, Serial No. 308,343
4 Claims. (Cl. 33—172)

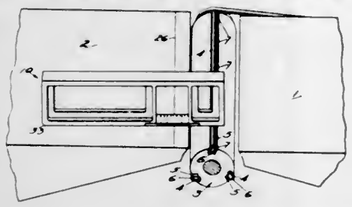


4. A gage unit designed to mount an indicator of the type comprising a casing and a movable plunger extending therefrom and designed for connection to an adaptor including a fixed part engageable with a gauging surface of a work piece and a movable part engageable with a surface of the work piece to be gauged, said unit comprising a housing having a recess at one side thereof for receiving the indicator and a passage extending laterally from said recess into which the indicator plunger extends, indicator mounting means in said recess adjustable toward and away from said passage, a tubular thimble in said passage adjustable longitudinally therein, and in which the indicator plunger is longitudinally movable, a ball in said passage outwardly of said thimble and engageable with the end of said thimble at one limit of its movement, means at the outer end of said passage preventing escape of the ball therefrom, means for mounting the fixed part of the adaptor to said housing adjacent said passage with the movable part thereof extending into the outer end of said passage into engagement with said ball.

2,667,702
GAUGE FOR SETTING JOINTER KNIVES AND METHODS
Howard S. Beale, San Francisco, Calif.
Application May 27, 1952, Serial No. 290,201
5 Claims. (Cl. 33—185)

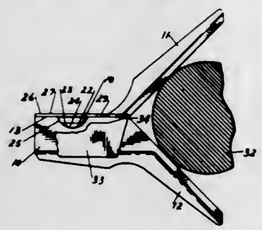
1. A gauge for setting the knives in the cutterhead of a jointer comprising an elongated body

having a straight longitudinally extending base adapted to lie flat on a table of said jointer with one end of said base projecting over the cutterhead, a fiducial point on said base spaced from said one end for registration of said point with a predetermined fixed point on said table, indicia on said base spaced from said fiducial point a distance equal to the chord length of the arc travelled by the edge of a correctly set knife be-



tween two points on the plane of said table when the latter is substantially coplanar with the upper surface of said cutterhead, said body being provided with a downwardly opening recess and a longitudinally extending transparent scale positioned across the open side of said recess coplanar with said base, said fiducial point and said indicia being scribed on said scale whereby the same are viewable from a point above said body through said recess.

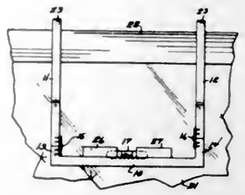
2,667,703
TOOL SETTING GAUGE
Karl F. Zumkeller, Indiahapolis, Ind.
Application June 28, 1952, Serial No. 296,121
1 Claim. (Cl. 33—185)



A lathe cutting tool gage for tool height setting in reference to the axis of a piece of work, comprising a body; a pair of jaws carried by the body and presenting planar, forward faces ninety degrees apart, the lengths of the jaw faces being sufficient to have their faces tangent to the work piece when presented thereagainst; a tool cutting edge contact member carried by and extending laterally from said body and having an under side planar face starting at least at the line of intersection of the planes of said jaw faces and bisecting the dihedral angle of those jaw faces; a bubble indicating level tube carried by said body having its upper side in close proximity to but below the plane of said member face; the positioning of said bubble along said tube for horizontal placement of said member face being on that side of said member removed from said line of intersection.

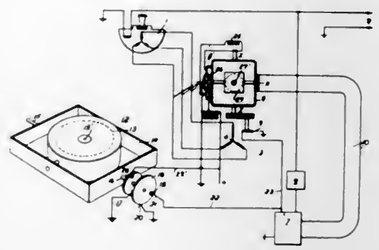
2,667,704
SPIRIT LEVEL BRACKET
Carl H. Dunn, Hyattsville, Md.
Application March 18, 1952, Serial No. 277,211
2 Claims. (Cl. 33—207)

1. In a bracket for leveling picture frames and the like, the combination which comprises a plate having an extended edge and with upwardly extended sections of unequal length on the ends, arms of unequal length with hooks extended from



the upper ends extended upwardly from the sections at the ends of the plate, and means hinging said arms to the upwardly extended sections at the ends of the plate.

2,667,705
GYROSCOPIC APPARATUS
Arthur Philip Glenny, Hanworth, and Dimitri Waloff, Ealing, London, England, assignors, by mesne assignments, to The Sperry Gyroscope Company, Limited, Brentford, England, a British company
Application January 4, 1950, Serial No. 136,709
6 Claims. (Cl. 33—222)

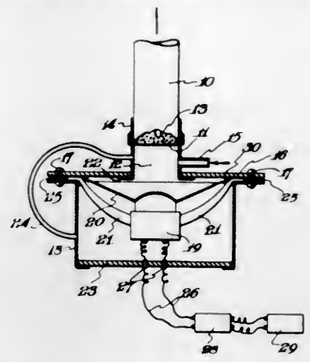


1. In a gyro-magnetic compass for aircraft, a directional gyroscope, a gyro-vertical, a magnetic compass, means controlled by the magnetic compass for preventing deviation of the gyroscope due to wandering and a cut-out on the gyro-vertical brought into action by a bank of the craft of more than a predetermined amount, said cut-out rendering said deviation preventing means acting between said magnetic compass and said directional gyroscope temporarily ineffective.

2,667,706
SOLIDS-GAS CONTACTING
Rollin D. Morse, Lincoln University, Pa., and Eduard F. von Wettberg, Jr., Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application September 9, 1950, Serial No. 183,998
4 Claims. (Cl. 34—4)

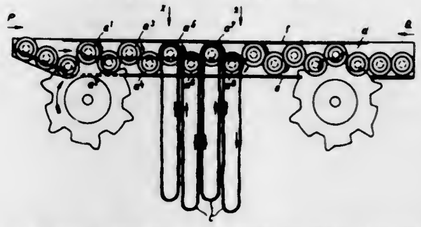
1. In the fluidizing of solids by a stream of gas flowing therethrough, the steps of improving the fluency and reducing the agglomeration and angle of repose of particles which comprises applying sonic vibrations through the gas medium to the solids within the audible range at a sound

pressure level greater than about 100 decibels to produce collapse of the solids bed, and continu-



ing the sonic vibrations to create and maintain uniform flow within the mass of said solids.

2,667,707
DRYING DEVICE FOR SKEINS OF YARN
Emil Kropf, Bayreuth, Germany, assignor to H. Fleissner & Sohn, Maschinenfabrik, Bayreuth, Germany
Application November 21, 1950, Serial No. 196,749
Claims priority, application Germany November 23, 1949
2 Claims. (Cl. 34—163)



1. A drying device for skeins of yarn comprising a plurality of rotating carrying rods arranged adjacent each other to guide the skeins of yarn during the drying of the yarn and being divided into a pair of series of rods staggered relatively to each other, friction discs provided on the opposite ends of each of said carrying rods, a pair of guiding tracks arranged in two different levels, the friction discs of each series of varrying rods rolling along its respective track and said rods being adapted to move along said tracks to thereby press said discs against each other to rotate each of said rods in a direction opposite to the rotating direction of the adjacent carrying rod.

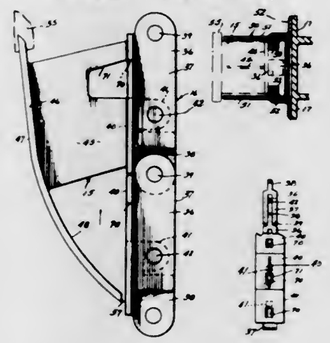
2,667,708
SNOWPLOW AND MEANS FOR COUPLING THE SAME TO PUSHER TRUCKS
Frederick H. Gjesdahl, Crookston, Minn.
Application August 25, 1950, Serial No. 181,444
4 Claims. (Cl. 37—42)

1. In combination, a moldboard snow plow including a pair of laterally spaced pusher bars extending rearwardly from moldboard and adapted to lie on the ground when said plow is not in use, a pusher truck for said plow having a chassis frame and front side wheels and adapted to be driven forwardly along said pusher bars toward said moldboard with said wheels straddling the bars of said pair, a transverse pusher rod connecting said pusher bars adjacent the rear ends thereof, and means on said chassis frame coacting with said rod during such forward driving of said truck to pick-up and couple said rear ends of said pusher bars to opposite sides of said chassis frame in suspended position



comprising a pair of hanger bracket plates depending from opposite sides of said chassis frame and having forwardly opening sockets therein, and a pair of pick-up bars pivoted on said plates for swinging into downwardly and forwardly extending ground engaging position to engage and lift said rod into position to enter said sockets.

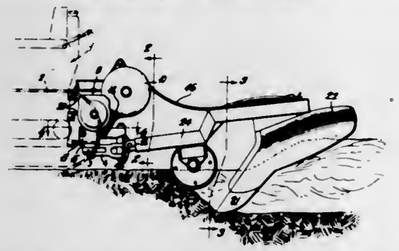
2,667,709
EXCAVATING CHAIN AND BUCKET MECHANISM
Albert R. Askue, Euclid, Ohio, assignor to The Cleveland Trencher Company, Cleveland, Ohio, a corporation of Ohio
Original application April 13, 1949, Serial No. 87,217. Divided and this application May 25, 1950, Serial No. 164,242
1 Claim. (Cl. 37—83)



A bucket equipped excavator chain for excavating machines having a pair of spaced wheels one of which has outwardly projecting wheel teeth, said chain comprising a plurality of elongated links interconnected to form an endless loop, each link comprising an elongated member having an elongated tooth receiving slot extending inward from one end and a relatively short lug extending outward from the other end and occupying the outer portion of the slot in the adjacent link, a transverse pin interconnecting such lug with the adjacent link, a plate mounted on each link, each plate having a substantially centrally positioned lug extending outward from one face thereof and seated in the slot of its respective link, said plates forming bucket backs, a transverse pin connecting the link with its respective plate lug, alternate plates having a second longitudinally extending plate secured thereto and projecting outward from its other face intermediate its edges and forming bucket webs, a third plate secured to the outer edge of each web and spaced from the first plate thereby and forming the front walls of the buckets, each of the third plates having its for-

ward edge spaced from the forward edge of its respective first named plate and extending rearwardly and inwardly therefrom terminating substantially in contact with the rear portion of the first named plate of the next succeeding chain link, said first and second named plates each having openings aligned with each other and with the slot in its respective link to permit material to be ejected from the chain slots through such openings by said wheel teeth.

2,667,710
COUPLING ATTACHMENT FOR TRACTOR DRAWN PLOW
Warren K. Settlemire, Port Saint Joe, Fla.
Application January 11, 1952, Serial No. 265,929
4 Claims. (Cl. 37—98)



1. In ditch making apparatus including a tractor having a fixed transverse drawbar plate with a clevis having one end vertically pivoted thereto, and vertically bifurcated at its opposite end, said clevis having vertically aligned holes in the bifurcations for a pivot pin, and a plow drawn by said tractor having spaced parallel beams with transversely aligned holes for a pivot pin, a coupling attachment adapted for interposition between said tractor and plow comprising a rigid frame including a transverse member, means for fixedly securing said frame relative to said tractor with said transverse member extending over said clevis in spaced relation thereto, said transverse member having a hole for a pivot pin in axial alignment with the holes in the bifurcations of said clevis when the latter is perpendicular to said drawbar plate, an integral coupling having forward portions respectively closely fitting between said transverse member and the upper of said bifurcations and between said bifurcations, said portions having vertical bores therethrough coaxial with the holes in said transverse member and bifurcations, a pivot pin passing through and closely fitting said holes and bore, said coupling having a portion adapted to closely fit between said plow beams and having a horizontal bore therethrough adapted to be aligned with the pivot pin holes in said plow beams, and a pivot pin fitting said longitudinal bore and the holes in said side members adapted to be inserted through said holes and bore for connecting said plow to said coupling.

2,667,711
GREETING CARD
Hilda E. Anderson, Ironwood, Mich.
Application April 23, 1952, Serial No. 283,968
3 Claims. (Cl. 41—10)

1. A greeting card comprising a sheet of thin material having self-supporting qualities when rolled and adapted to carry a message thereon, said sheet being of substantially oval shape and having pairs of spaced openings therethrough, said pairs of openings being located adjacent opposed margins thereof, tying means carried in one of said pairs of openings, said tying means having end members extending from each of the openings of said one of said pairs of openings, said sheet being rolled to cylindrical shape with said margins overlapping and said pairs of



openings in register with each other, each of said end members being extended through its corresponding one of the openings in the opposite pair of said openings, and said end members being tied to hold the opposed margins of said sheet together forming a scroll-like roll.

2,667,712
LUGER CONVERSION
Melvin J. Hunting, New Brunswick, and George L. Mack, Somerville, N. J., assignors, by mesne assignments, to Augustus S. Dreier, North Plainfield, N. J.
Application October 10, 1950, Serial No. 189,452
4 Claims. (Cl. 42—77)

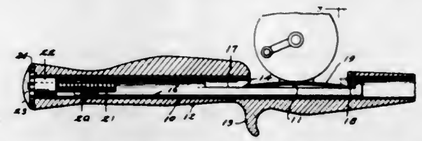


1. A conversion unit for a Luger pistol having conventional barrel and receiver members, comprising a barrel insert member adapted for insertion in the bore of the pistol barrel member of the Luger for reducing the gauge thereof to the caliber shot to be used, a rectilinearly movable bolt member having guide means complementing the conventional spaced bolt guides on the Luger receiver member for coaction therewith, said bolt member having a firing pin assembled therein and also a cartridge case extractor so located as operatively to engage the side of an inserted cartridge shell rim, a normally fixed rear sight member carried by the receiver member of the Luger in spaced relation from the said bolt member when the latter is in its normal operative position whereby to provide space for bolt movement when the pistol is fired, recoil spring means in the space between the bolt and the rear sight member, a cartridge magazine constructed and arranged to place an unfired cartridge in position to be advanced into the bore of the barrel insert member on the forward movement of the bolt in response to the recoil spring means, and means enclosing the recoil space between the bolt and the rear sight member comprising a pair of rearwardly extending spaced apart arm members carried by the movable bolt member and overlying the recoil space and a forward extending tongue element carried by said rear sight member and also overlying the recoil space, said arm members and tongue member together with the sides of the conventional Luger receiver effectively closing the recoil space against entry of foreign matter during normal use of the pistol.

2,667,713
FISHING ROD AND REEL CLAMP
Charles D. Stephens, San Antonio, Tex.
Application July 22, 1952, Serial No. 300,144
2 Claims. (Cl. 43—22)

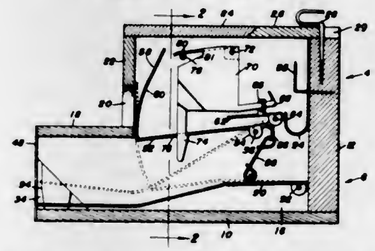
2. A fishing rod handle and reel clamp comprising an elongated tubular member having an

elongated cutout portion adjacent the forward end thereof, the rear end of said cutout portion having a V-shaped notch formed therein constituting a rear fixed clamping jaw, a handle encompassing said member and having a cutout portion registering with said first named cutout portion, an inner tubular member slidably



mounted in said elongated tubular member and formed with a cutout portion and a movable clamping jaw at the forward end of said last named cutout portion, a threaded stud fixed in the rear end of said inner tubular member, a nut threaded on said stud, and a cap carried by said nut engaging against the rear end of said handle.

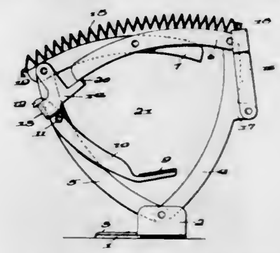
2,667,714
ANIMAL TRAP
James S. Vickers, Alexander City, Ala., assignor of fifty per cent to C. V. Vickers, Alexander City, Ala.
Application August 21, 1950, Serial No. 180,591
1 Claim. (Cl. 43—61)



An animal trap comprising a housing having an entrance opening therein, an animal depressed platform pivotally mounted for vertical swinging movement in the housing adjacent the opening, an animal actuated treadle pivotally mounted in the housing adjacent the platform and including an upstanding apertured ear, a trigger for controlling the platform, said trigger including a substantially horizontal, gravity actuated plate pivotally mounted for vertical swinging movement in the housing above the platform, a depending substantially vertical side flange on said plate, a depending hook on the flange engageable with the platform for releasably securing same in raised position, an arm on the flange engaged for longitudinal sliding movement in the ear for operatively connecting the treadle to the trigger, and a stop pin in the housing engageable with the plate and the flange for limiting swinging movement of the trigger, said flange having a recess therein accommodating said pin.

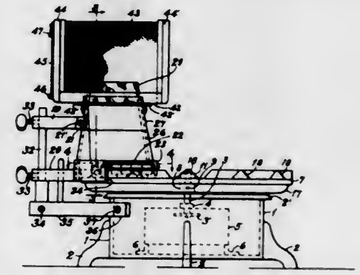
2,667,715
ANIMAL TRAP
Purl J. Stonestreet, Cuyahoga Falls, Ohio
Substituted for abandoned application Serial No. 754,352, November 22, 1934. This application May 26, 1951, Serial No. 228,380
3 Claims. (Cl. 43—85)

1. An animal trap comprising pivotally positioned supporting arms, trapping jaws carried by said supporting arms, and pivoted thereto adjacent their upper ends and extending downwardly therebetween, spring means for normally holding the free ends of said jaws in their lower trapping relation, said spring means including a coil spring and a link pivotally carried at one end by a said supporting arm adjacent a free end thereof, said link at its free end engaging one



end of said coil spring and extending up over the free end of the said supporting arm on which it is positioned to aid in moving said trapping jaws to operative position when released, a latch for holding said jaws in inoperative relation against the action of the spring means with their free ends in their upper position, and animal operated means for releasing the latch.

2,667,716
FLY TRAP
Leoncio Riveron Garcia, San José de las Lajas, Cuba
Application March 10, 1950, Serial No. 148,908
2 Claims. (Cl. 43—111)

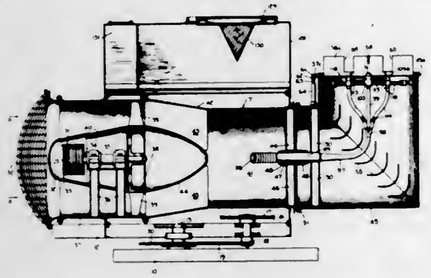


1. In a fly trap, a frame, a horizontal disc rotatably mounted in said frame and provided with annular recesses in the top surface thereof and with a plurality of holes between said annular recesses, a plurality of barriers of triangular prismatic shape having an upwardly projecting angle and being secured to the upper surface of said disc in spaced apart radial position, a box-like trap mounted on said frame immediately above a section of said disc and having an open bottom, an annular upwardly open channel beneath said disc, and means detachably securing said channel to said disc.

2,667,717
SPRAYING AND DUSTING MACHINE
George W. Daugherty, Orlando, Fla., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application May 21, 1948, Serial No. 28,317
2 Claims. (Cl. 43—148)

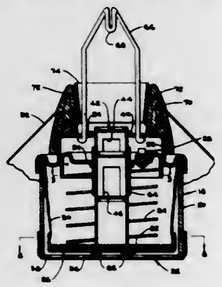
1. An insecticide spraying and dusting machine comprising a support, a supply source for insecticide dust, a supply source for insecticide

liquid, a duct of one size extending from the dust supply source to an end of the support to effect a dust stream, a pipe communicating with the interior of the duct and with the liquid supply source to effect a liquid stream, a conduit of several times greater cross sectional area than the said duct and pipe surrounding the ends of said duct and pipe, means for providing an air stream to pass through the conduit, said air stream adapted to encompass the stream of material blowing from the duct and pipe, a supercharger on said support providing a blast of air within



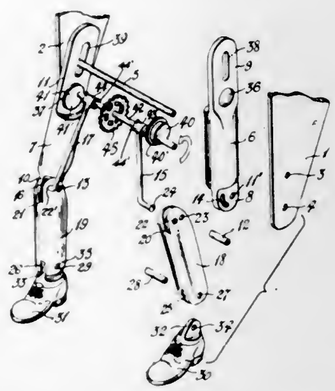
said dust duct, and a pump for forcing said liquid in said pipe to pass to and intermingle with said combined dust and air stream, said combined dust, air and liquid stream being discharged toward foliage at a greater distance and over a greater area by said air stream in said conduit, said blast of air being at such speed as to effect substantially complete separation of the dust particles from each other and substantially complete intermingling of the dust particles and liquid insecticide in said air stream.

2,667,718
COMPRESSIBLE SOUND PRODUCING TOY AND VOICE THEREFOR
John H. Wilhelm, Long Island, N. Y., assignor to Voices, Inc., Bayonne, N. J., a corporation of Delaware
Application October 22, 1948, Serial No. 55,886
34 Claims. (Cl. 46—117)



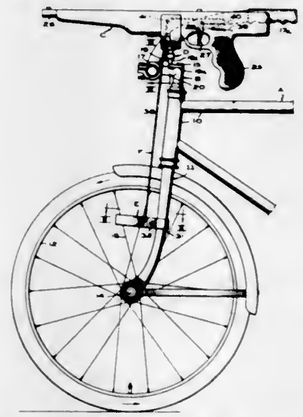
34. In combination, an imperforate compressible doll body having a neck portion, a hollow doll head having an opening at the bottom received around said neck portion, an articulative voice comprising a casing having an input end and a sound discharge end both open for the passage of air, a light-weight cap slidable in said casing and disposed entirely therein, said cap being too light for effective gravitational operation and said input end providing a substantial open area for the free passage of air, whereby a surge of air therethrough will act upon said light-weight cap to move the same toward the sound discharge end of the casing, a sound producing means actuated by air forced therethrough on movement of the cap from one end toward the other end, and valve mechanism for articulating the resulting sound on its way from the sound producing means through the sound discharge end of the casing, said valve mechanism comprising a stationary member and a movable member slidably related thereto with appropriate ports to alternately constrict and free the passage of sound, said movable member being connected to the aforesaid cap and being moved by said cap, the input end being covered with a porous membrane to keep out foreign matter, and the sound discharge end having a yoke passing through the neck opening of the doll head and having a hook at the top, elastic means connecting said hook to the head, said voice being mounted in said body at the neck with the sound discharge end on top for discharge of sound into the head, said head having sound discharge openings for passage of sound therethrough, said doll body having a skin of relatively thin flexible latex and being stuffed with granules or pellets of foam rubber, and the neck end of the latex body being secured to the voice with an air-tight fit, the arrangement being such that squeezing of the doll body moves the cap.

2,667,719
WALKING DOLL ACTION
John E. Edwardson, Tako, Saskatchewan, Canada
Application January 4, 1951, Serial No. 204,414
3 Claims. (Cl. 46—150)



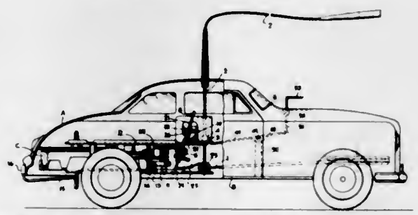
1. A mechanical walking action for dolls and the like adapted to be operated by a conventional spring action motor, comprising in combination a pair of spaced and parallel support plates, a crankshaft spanning said plates, and journalled for rotation therein, diametrically opposed eccentrics situated upon said crankshaft, a pair of articulated legs suspended from said crankshaft, each of said legs including thigh components, said thigh components being apertured to engage said eccentrics, leg portions pivotally depending from said thigh components, radius rods extending between said crankshaft and a point adjacent the pivotal connection between said thigh components and said leg portions and means to limit the oscillatory motion of said thigh components said means including a transversal rod spanning said support plates, said thigh portions being slotted at the upper ends thereof, said slots engaging around said rod.

2,667,720
BICYCLE ATTACHED TOY MACHINE GUN
Evan S. Connell, Jr., Santa Cruz, Calif.
Application September 18, 1951, Serial No. 247,116
6 Claims. (Cl. 46—175)



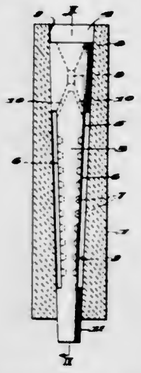
1. In an attachment of the character described: a toy machine gun, including a trigger; means mounting this gun on a bicycle, or the like, at substantially handle-bar level thereon in a position for grasping and direct aiming of the gun by a cyclist, while riding the bicycle; a resilient finger having means connected thereto for supporting the finger on a part of the bicycle adjacent to a wheel thereof; the finger having a free tip normally disposed out of engagement with spokes of the wheel; this finger being adapted to be flexed into a position in which the spokes will strike the tip during rotation of the wheel to produce a noise simulating "firing" of the gun; and means operated by the trigger under direct control of the cyclist for flexing the finger into the path of the wheel spokes, when desired by the cyclist, to thereby selectively "fire" the gun at will.

2,667,721
REMOTELY-CONTROLLABLE TOY VEHICLE
Heinrich Müller, Nurnberg, Germany
Application October 22, 1952, Serial No. 316,204
Claims priority, application Germany
April 16, 1952
12 Claims. (Cl. 46—206)



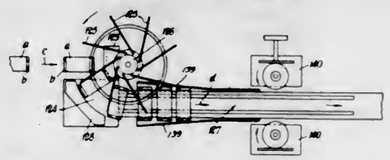
1. In a toy vehicle having a drive and selective control means connected with said drive for controlling its operations, said control means comprising a stepping switch mechanism having a frame structure with a recess of a cornered contour and having a revolvable poly-cornered stepping member disposed in said recess and normally in resting engagement with the corner of said recess, a ratchet wheel coaxially joined with said member and having a plurality of lobes corresponding to the respective corners of said member, and an axially displaceable control structure having an element engageable with said respective lobes, whereby said member is released from said engagement and turned one step by said element when said control structure is axially displaced.

2,667,722
MOLD FOR USE IN THE MANUFACTURE OF DRY RECTIFIERS
Alexander Jenkins, King's Cross, London, England, assignor to Westinghouse Brake and Signal Company Limited, London, England
Application July 16, 1951, Serial No. 236,972
Claims priority, application Great Britain
September 18, 1950
2 Claims. (Cl. 49—65)



1. For use in a process for the manufacture of dry rectifiers, a mould comprising, in combination, a block having a tapered bore extending therethrough; a plug correspondingly tapered for fitting said bore and having recesses formed in a cutaway portion of the tapered surface thereof; and a crucible formed by one end of said plug and the wall of said bore extending beyond said end, a passage extending between said crucible and said cutaway portion.

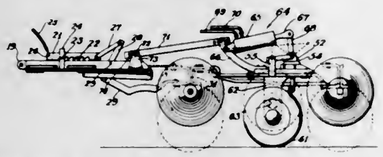
2,667,723
METHOD AND APPARATUS FOR PRODUCING WRAPPED ARTICLES
Jacques Edwin Brandenberger, Paris, France, assignor to Societe la Cellophane, Basel, Switzerland, a Swiss company
Application November 26, 1952, Serial No. 322,772
Claims priority, application Great Britain
September 12, 1952
6 Claims. (Cl. 53—55)



1. An apparatus for the continuous production of wrapped articles, made from a pasty material, comprising means for pressing together the opposite surfaces of a flexible tube which has been filled with the pasty material to form a closure strip across the tube, means for severing the closure strip to divide the tube into individual bars, means for carrying the individual, wrapped bars along in a substantially horizontal plane and means for applying to the severed edges of each closure strip, as the bars are carried along, a seal-

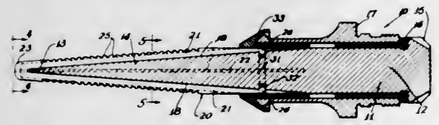
ing substance, said closure-sealing means comprising, for each closure strip, a driven roller rotating in said plane, each roller having a peripheral groove to hold the sealing substance and means to supply said substance to the peripheral groove which is carried around in the groove to the closure strip for application thereto to form, along each entire edge thereof, a sealing band.

2,667,724
WHEEL SUPPORT FOR TANDEM DISK HARROWS
Arnold E. W. Johnson, Oak Park, and John R. Orelind, Wilmette, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application December 4, 1948, Serial No. 63,562
3 Claims. (Cl. 55—73)



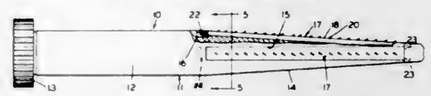
1. For use with a tandem disk harrow including longitudinally spaced disk gangs, an articulated frame supporting said gangs comprising front and rear sections pivotally connected for relative movement of the gangs about a transverse axis therebetween and a hitch structure for connecting the harrow to a source of draft power: a pair of transversely alined axles between said sections having their inner ends pivotally connected to the frame for vertical movement of the outer ends about longitudinal axes, wheels carried at the outer ends of the axles, a vertically slotted bracket carried by the frame at each side thereof, the slot in each said bracket being adapted to receive and confine the associated axle against longitudinal movement but to accommodate vertical movement thereof, means for vertically moving said axles about their central pivots to raise and lower the harrow, and a lost-motion connection between said front and rear frame sections vertically spaced from the transverse pivot therebetween to prevent buckling of the frame, while permitting limited pivoting of the frame sections.

2,667,725
COTTON PICKER SPINDLE ASSEMBLY WITH INSERTS
August Christian Voigt, Evergreen Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application June 13, 1951, Serial No. 231,372
9 Claims. (Cl. 56—50)



1. A picker spindle structure comprising in combination, a spindle having a journal portion, a tip portion and an insert holding portion disposed between the journal portion and the tip portion, said insert holding portion comprising a conical body, said body and said tip portion being provided with a plurality of axially extending slots, the slots terminating in the tip portion in cruciform relation, a picker insert assembly supported on the insert holding portion, said assembly comprising a plurality of relatively thin inserts having first end portions connected adjacent the tip portion in cruciform relation and second end portions, the inserts extending in diverging relation and conforming to the conical body, said inserts including inner edge portions disposed in the axially extending slots and outer edge portions including picker barbs projecting outwardly from the conical body, inwardly extending projections disposed on second end portions of the inserts, said conical body including a recessed portion for receiving the inwardly extending projections, and a collar disposed over the conical body, said collar engaging the inserts for securing them against axial and lateral displacement with respect to said body.

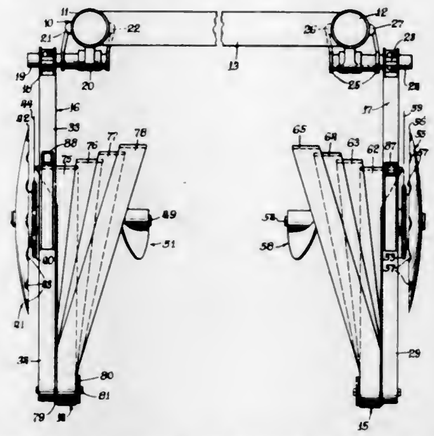
2,667,726
COTTON PICKER SPINDLE WITH BARBED INSERTS
Hilmond O. Vogel, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Substituted for abandoned application Serial No. 104,930, July 15, 1949. This application November 21, 1952, Serial No. 321,911
8 Claims. (Cl. 56—50)



1. A picker spindle structure comprising a spindle having a journal portion and an insert holding portion disposed between said journal and an end of said spindle, said insert holding portion including a conical body, a plurality of axially extending slots formed in the conical body, a plurality of channel-shaped picker inserts disposed in the slots of said body, each of said inserts including a substantially flat surface having projecting barbs, laterally spaced leg members disposed at opposite sides of said surface, the leg members extending angularly with respect to the surface, and means securing said inserts within said slots whereby the leg members of said inserts engage the sides of said slots and the flat surface is positioned substantially flush with the outer surface of the conical body.

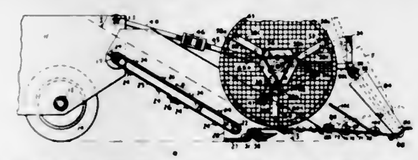
2,667,727
ROW DEFINING APPARATUS FOR CANE HARVESTERS
Stuart D. Pool, Moline, and Edward M. Melin, Rock Island, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application January 22, 1952, Serial No. 267,526
12 Claims. (Cl. 56—95)

1. A stalk raising, cutting and conveying apparatus comprising a supporting frame, a forwardly projecting frame arm hinged at its rearward end to said supporting frame, a substantially vertically disposed cutter disc journaled on a transverse axis intermediate the ends of said frame arm, the circumference cutting edge of said disc spaced vertically upwardly from the ground, a plurality of ground engaging spring fingers hinged for free swinging movement about the forward end of the frame arm, the outer of said spring fingers lying closely adjacent said cutter disc, said spring fingers extending rearwardly beyond the transverse axis of said cutter disc and thence inclined downwardly and forwardly, whereby stalks raked by the spring fingers are raised up the inclined portions of the spring fingers and into the scope of the cutter disc, said spring fingers spread inwardly in fan formation from the outer of said spring



fingers with a slight overlapping to provide for a gradual movement of stalks cut by the disc cutter inwardly thereof as the apparatus moves forwardly through a field of stalk crops.

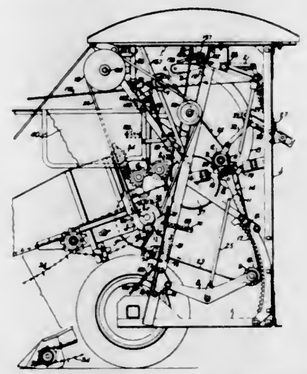
2,667,728
HEADER FOR HARVESTER COMBINES
Walter R. Dray, Yorkville, Ill.
Application April 30, 1948, Serial No. 24,172
9 Claims. (Cl. 56—181)



1. In a harvester combine having side members, a conveyer roller shaft journaled in said side members, a header pivotally adjustable about the shaft of said roller, side walls for said header, pins mounted on the forward end portions of said sidewalls, a reel, means for supporting said reel on said header for vertical and longitudinal adjustment, said means comprising adjustable supporting arms pivotally connected to said pins and rotatably supporting said reel, a U-shaped divider support having rearwardly extending arms pivoted on the axis of said reel, brace links pivotally mounted on said pins, and extending diagonally upwardly and forwardly to said arms, clips pivoted to the upper ends of said links and adjustably clamped to the arms of said divider support, dividers, and means including said divider support for supporting said dividers in advance of said reel.

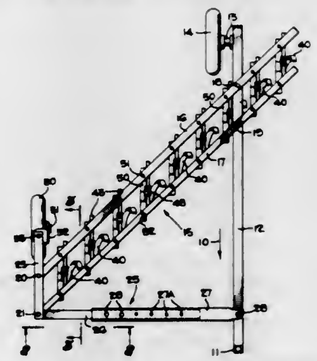
2,667,729
CONTROL MECHANISM FOR ROTARY BALERS
Paul H. Harrer, La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application July 30, 1949, Serial No. 107,732
5 Claims. (Cl. 56—341)

1. A tractor propelled baling machine comprising: an endless pickup conveyer; a rolled bale forming means receiving material from said conveyer; bale wrapping means including a twine feeding device acting to pass the free end of wrapping twine to said bale forming means; control mechanism including a twine tension responsive element operatively associated with and rendering said conveyer, forming means, and wrapping means automatically operative to effect in sequence the operations of stopping said conveyer when said bale attains a preselected diameter while continuing operation of said forming means, actuating said wrapping means only in



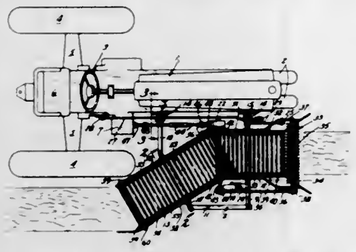
response to the free end of the twine passing into said forming means and exerting an actuating tension on said tension responsive element, discharging the wrapped bale from the machine, and restarting the conveyer; and means operatively associated with said control mechanism and extendible to a point within reach of an operator on the propelling tractor for manually restarting said conveyer in the event twine fails to pass into said forming means.

2,667,730
SIDE DELIVERY RAKE
Floyd McCall and Lloyd McCall, Romoland, Calif.
Application May 22, 1950, Serial No. 163,522
10 Claims. (Cl. 56—376)



1. In a side delivery hay raking device of the character described, a supporting frame, and a plurality of individual spaced tines mounted on said frame in a line extending at an angle to the direction of movement of said device, each one of said tines having a compound curvature, lying generally on a continuous spiral and having the lower extremity thereof making an acute angle with the plane of the ground and spaced immediately above the ground to rake hay which lies on the ground.

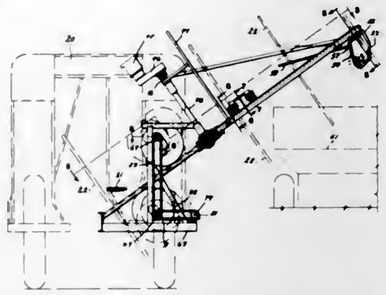
2,667,731
TRACTOR ATTACHMENT FOR REFORMING WINDROWS
Harold Nerness, Windom, Minn.
Application November 8, 1951, Serial No. 255,454
3 Claims. (Cl. 56—377)



1. In a windrow lifting and re-forming device, a frame structure comprising a base frame and a pair of elongated front and rear conveyor frame elements mounted intermediate their ends for swinging movements on generally horizontal axes on the base frame, adjustable means hingedly secured to the base frame for mounting the same to a tractor, a windrow pickup device including a pickup head journalled on the forward end of said front conveyor frame element in position to engage and pass underneath a windrow, a rearwardly inclined endless link belt conveyor mounted on said front conveyor frame element for receiving material from the pickup head and delivering said material rearwardly therefrom, an endless link belt delivery conveyor mounted on said rear conveyor frame element and inclined toward its front end, the front end of the delivery conveyor being positioned to receive material from the rear delivery end of the first-mentioned conveyor, said delivery conveyor being disposed at an oblique angle to the first-mentioned conveyor whereby the rear delivery end of the delivery conveyor overlies the ground in closely spaced relation to stubble thereon and in laterally offset relation to the path of travel of said pickup head, the relationship of said conveyors to each other and to said pickup head being such that the continuity of the windrow is undisturbed during the transfer thereof from its original position to the point of redeposit in laterally offset relationship thereto, manually operated mechanism for raising and lowering said pickup head and imparting swinging movement to said conveyor frames and locking the same in predetermined set positions, and power transmission mechanism for imparting operative movements to said pickup head and conveyors and including a drive shaft adapted to be coupled to the power take off of said tractor.

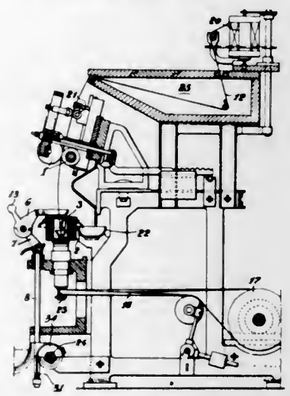
2,667,732
LOADING AND CLEANING ATTACHMENT FOR CANE HARVESTERS
Byron C. Thomson, Thibodaux, La., assignor to B. C. Thomson Co., Inc.
Application May 3, 1950, Serial No. 159,807
7 Claims. (Cl. 56—473.5)

7. For use with cane conveying mechanism in a cane harvester, conveyor means receiving the severed canes from such mechanism in their original upstanding severed position for conveying the canes angularly upwardly and outwardly of the harvester to a point outboard of the harvester, conveyor means positioned at the discharge end of said first conveyor means for returning said canes to their original upstanding position and conveying them in said upstanding position longitudinally of the cane rows and outboard of the harvester, a cane receiving container positioned at the discharge end of the second conveyor means longitudinally of the cane rows to receive the canes from the second conveyor means and cooperating with the second conveyor means to trip the canes from their upstanding



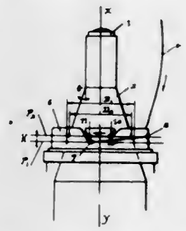
position to horizontal position lying prone in the container longitudinally of the cane rows, said container being at a height above the ground to permit a wagon to travel thereunder longitudinally of the cane rows, and means for opening the container to permit the canes to fall into the wagon.

2,667,733
CENTRIFUGAL SYSTEM OF WET SPINNING OF NATURAL FIBERS
Aldo Bolelli, Bologna, Italy
Application September 21, 1950, Serial No. 186,092
Claims priority, application Italy February 1, 1950
5 Claims. (Cl. 57—35)



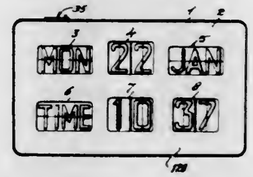
3. An apparatus for wet centrifugal spinning of flax, hemp, ramie fibers and the like comprising in combination a tank adapted for containing hot water for wetting the roving, a pair of drawing rollers positioned near the outlet end of said tank, means for supplying the roving to said rollers, a rapidly rotatable vessel located beneath said drawing rollers having an axially bored cover provided with a peripheral downward projecting border, a resilient cylinder formed of an elastic membrane folded on itself inserted in said vessel, pressing against the inner surface of the border of the cover and supported therefrom, a yarn holder for guiding the roving coming from the drawing rollers inside the rotating vessel to be centrifugally spun in such a manner as to be held against the inner surface of said resilient cylinder to form an annulus of yarn, said elastic cylinder being removable from the cover of the vessel after the cover has been lifted.

2,667,734
PROCESS AND MEANS FOR WINDING NATURAL AND SYNTHETIC YARNS
Albert Nau-Touron, Paris, France, assignor to Isaac Frenkel, Paris, France
Application May 3, 1950, Serial No. 159,705
Claims priority, application France May 4, 1949
10 Claims. (Cl. 57—67)



5. In a textile machine more particularly for spinning and twisting natural and artificial textile yarns and for cabling or similar operation, of the type comprising a rotary spindle carrying a filling bobbin and a rotating ring coaxial therewith and rotating in the same direction while subjected to a braking action of constant value, said rotating ring and said rotary spindle being both subjected to relative axial displacement for distributing the yarn on said filling bobbin; the improvement which comprises a spinning flyer fixedly mounted on said rotating ring and formed with six apertures spaced from one another in the direction of rotation of said spindle for passing and guiding the yarn, the first aperture being used for passing outwards the yarn received from the delivering members of the machine, the second aperture being formed at an angle from the first aperture which is a function of the ratio to be obtained between the delivering and winding tensions of the yarn and being used for passing the yarn coming from said first aperture and which frictionally engages the outer surface of said spinning flyer, the third aperture being formed at an angle less than 180° from either said first and second apertures and being used for passing the yarn coming from said second aperture and which bears on a layer of yarn already wound on the filling bobbin according to an arc of a circle centered on the axis of the spindle, the fourth aperture being formed at a distance from the third aperture which is less than the diameter of the spindle and being used for passing the yarn coming from said third aperture and which frictionally engages the outer surface of the spinning flyer between said third and fourth apertures, the fifth aperture being formed at an angle less than 180° from said first and fourth apertures and being used for passing the yarn coming from said fourth aperture and which bears on a layer of yarn already wound on the filling bobbin according to a second arc of a circle centered on the spindle axis, said second arc being substantially diametrically opposed to the first one with respect to the axis of the spindle while the radius of said second arc is less than that of the first arc, and the sixth aperture being formed at a distance from the fifth aperture which is less than the diameter of the spindle, said sixth aperture being used for passing the yarn coming from said fifth aperture and which frictionally engages the outer surface of said spinning flyer between said fifth and sixth apertures, said yarn being finally wound on the bobbin at a point located on the same side of the filling bobbin as the first arc of a circle.

2,667,735
ELECTROMECHANIC WALL CALENDAR CLOCK
Remigio Solari, Udine, Italy, assignor to Solari Remigio & C. Fabbrica Orologerie Industriali, Udine, Italy, a company of Italy
Application August 6, 1951, Serial No. 240,484
Claims priority, application Italy August 8, 1950
8 Claims. (Cl. 58—4)

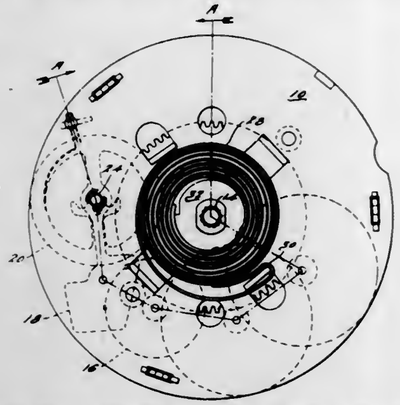


1. An electromechanical wall calendar clock comprising in combination a casing having a front wall provided with a plurality of openings vertically and horizontally spaced with respect to each other, at least one drum at each opening, a shaft for each said drum, a plurality of blades on each said drum, the blades of a first drum bearing the numbers of the units of the minutes, the blades of a second drum bearing the numbers of the tens of the minutes, the blades of a third drum bearing the numbers of the units of the hours, the blades of a fourth drum bearing the numbers of the tens of the hours, the blades of a fifth drum bearing the numbers of the units of the days of the month, the blades of a sixth drum bearing the numbers of the tens of the month days, the blades of a seventh drum bearing the name of the days of the week, the blades of an eighth drum bearing the name of the months, a power source inside the casing, an anchor escapement operable by the said power source, a weight coacting with and controlling the said escapement, a gear provided with sixty teeth operated by said power source for rotating a tooth at each minute, a shaft driven by said gear and connected to the drum of the minute units, a differential gear driven by said power source, a shaft mounting said gear, means associated with the said differential gear arranged to transmit at each hour the motion to the drum of the hours units, means associated with the said differential gear arranged to transmit the motion to the drum of the units of the days, means associated with the said differential gear arranged to transmit the motion to the drum bearing the name of the months, a head cam mounted on the side of said gear, a vertical lever controlled by said cam, a fork shaped lever, provided with a projection, in operative connection with the said means associated with the differential gear, and means associated with the said vertical lever and with said fork shaped lever arranged to rotate the drum of the week days.

2,667,736
INTERVAL TIMER
Kenneth M. Kiel, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application September 29, 1951, Serial No. 248,935
6 Claims. (Cl. 58—21.13)

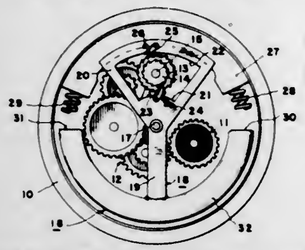
1. In an interval timer, a main spring, an arbor disposed to be driven in one direction by said

main spring and movable in the opposite direction to wind said main spring, escape mechanism for controlling the rate at which said main spring drives said arbor, a signal actuating member movable between first and second positions, means effective upon movement of said arbor in said one direction to a predetermined position for



moving said member from said first position to said second position, and resilient means mounted on said member and operable upon said movement of said member to engage said mechanism to stop the movement of said arbor by said main spring and move said member from said second position toward said first position.

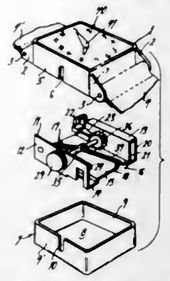
2,667,737
SELF-WINDING TIMEPIECE
Antoine Gazda, Providence. R. I.
Application February 28, 1952, Serial No. 273,808
2 Claims. (Cl. 58—82)



1. A self-winding time piece comprising a main spring for the time mechanism, a pair of ratchet wheels having different radii, means connecting said wheels with said spring, a pendulum, a pivot upon which said pendulum oscillates, a pair of spring biased pawls on said pendulum coacting with said ratchet wheels, one of said pawls farthest from said pivot coacting with the larger of said ratchet wheels and the other of said pawls closest to said pivot coacting with the smaller of said ratchet wheels so that upon equal oscillation magnitudes of said pendulum said ratchet wheels are rotated by said pawls through the same angle.

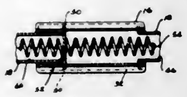
2,667,738
TOY WATCH
August G. Eichholz, St. Louis, Mo.
Application November 23, 1951, Serial No. 257,771
10 Claims. (Cl. 58—106)

1. A toy watch comprising a hollow casing, a shaft operatively mounted in the casing, means mounted externally of the casing and operatively associated with the shaft by which the shaft may be manually turned, an elastic element secured on opposite sides of the shaft so that at least for a portion of its length the elastic element extends across the shaft, said shaft extending bodily through the elastic element in the region thereof where said portion of the elastic element crosses the shaft, whereby the elastic element will grip the shaft annularly due to normal contraction for frictional engagement therewith so that when the shaft is manually rotated the elastic element will in effect attach itself to the



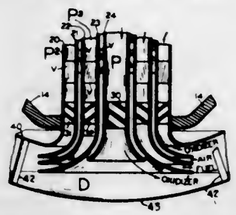
shaft for rotation therewith and thereby coil itself up around the shaft into a plurality of stretched substantially circular turns, means within the casing for holding the shaft stationary when manual rotation is discontinued, the frictional engagement between the elastic element and the shaft being of such nature that when the shaft is held stationary after the elastic element is wound into a series of stretched convolutions the elastic element will operatively slip with respect to the shaft and unwind itself, and means within the casing actuable responsive to the unwinding slippage of the elastic element for producing mechanical movement.

2,667,739
RESILIENTLY EXPANSIBLE MULTISECTIONAL METALLIC BANDS
Max Flaig, Bridgeport, Conn.
Application October 2, 1950, Serial No. 187,991
1 Claim. (Cl. 59—79)



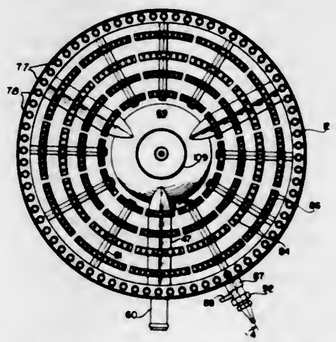
A resiliently expansible multi-sectional band comprising a plurality of telescopical links, each of said links including an open-ended outer part and an open-ended inner part, each inner part being slidable within its associated outer part, each outer part having a pair of registered longitudinal internal channels with closed ends in opposite sides thereof, each inner part having a pair of ears extending outwardly away therefrom adjacent each end thereof, the ears on each end being on opposite sides of the inner part and in registry, one of said pair of ears, being slidable in the channels of the associated outer part and the other of said pair of ears in the channels of the outer part of an adjacent link, each inner part having an extension at an end thereof bent inwardly thereof, and a long tension spring extending through several of said links, each extension passing between adjacent convolutions of the spring, said links pivoting relative to one another at points of abutment between a pair of ears of one link and the ends of the channels in an adjacent link.

2,667,740
MEANS FOR SUPPLYING AND COOLING ROCKET TYPE COMBUSTION CHAMBERS
Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York
Application June 6, 1950, Serial No. 166,512
1 Claim. (Cl. 60—35.6)



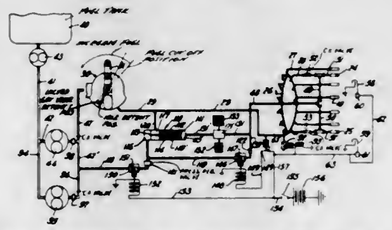
In a combustion chamber for propulsive use and having an open rearward discharge nozzle, in combination, feeding means for two liquid combustion elements comprising an axial member providing an axial passage for a liquid oxidizer, a tube surrounding said axial member and providing an intermediate passage for a liquid fuel, and an outer annular member surrounding said tube and providing an outer annular passage for additional liquid oxidizer, means in said tube and passages to rotate the fuel and oxidizer respectively in opposite directions, said axial member and tube and said tube and outer annular member being separated to provide annular insulating air spaces, and a double hollow and outwardly convex distributing disc being axially mounted on said outer annular member and with the outer ends of said axial member and tube outwardly flanged and projecting into the annular space between the upper and lower portions of the distributing disc with the combustible material discharged peripherally of said distributing disc.

2,667,741
FUEL INJECTION AND BURNER SYSTEM FOR REACTIVE PROPULSION POWER PLANTS
Nathan C. Price, Los Angeles, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Original application August 23, 1946, Serial No. 692,423, now Patent No. 2,540,594, dated February 6, 1951. Divided and this application November 1, 1947, Serial No. 783,536
7 Claims. (Cl. 60—35.6)



1. In a reactive propulsion engine, a combustion chamber, means for supplying air under pressure to the entrance of the combustion chamber, a propulsive nozzle at the exit of the combustion chamber, fuel supply means, and vaporizing and injecting means receiving fuel from the supply means and injecting fuel vapor into the combustion chamber, the last named means including circumferentially spaced tubular members extending radially into the entrance portion of the combustion chamber and conducting fuel from the supply means, and sets of arcuately curved radially spaced cup strips secured intermediate their ends to the members to receive fuel therefrom, the cup strips having spaced generally concentric imperforate side walls, perforate upstream walls and having open sides facing downstream.

2,667,742
STARTING SYSTEM FOR GAS TURBINE ENGINES
Andrew A. Kuzmitz, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 24, 1947, Serial No. 730,622
25 Claims. (Cl. 60—39.14)

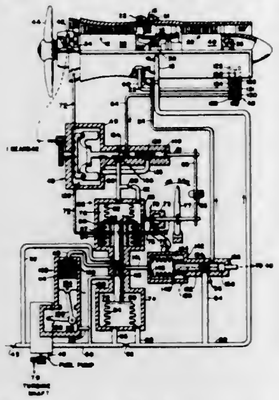


1. In a fuel supply and starting system for gas turbine engines, a plurality of fuel nozzles arranged to discharge fuel under pressure for admixture with air for effecting combustion, at least one of said nozzles functioning as a starting nozzle, ignition means for said starting nozzle, a fuel manifold common to all of said nozzles including the starting nozzle, a main fuel conduit for conducting fuel to said manifold, a manually operable fuel control device for regulating flow of fuel through said main fuel conduit, a by-pass conduit for supplying fuel to said starting nozzle only and arranged to by-pass said manifold, valve means controlling flow of fuel through said by-pass conduit, and fuel pressure responsive means controlling said valve means whereby fuel flow through said by-pass conduit is stopped when the fuel presure in said main fuel conduit attains a predetermined value.

2,667,743
FUEL CONTROL APPARATUS FOR INTERNAL-COMBUSTION ENGINES
Leighton Lee II, Rocky Hill, Conn., assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application April 23, 1946, Serial No. 664,411
22 Claims. (Cl. 60—39.28)

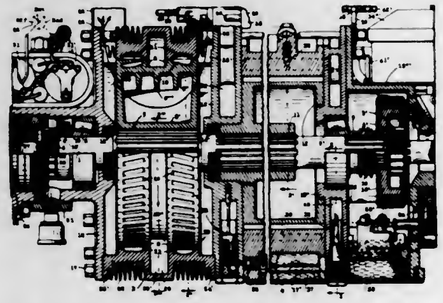
1. Fuel control apparatus for a turbo-jet engine, having associated therewith a fuel conduit and a source of fuel at superatmospheric pressure, for delivering fuel to said engine, and means for varying the delivery from said source to said fuel conduit, comprising: hydraulic motor means responsive to a control air pressure derived from the difference between a plurality of fluid pressures in said engine, and means responsive to the

speed of said engine for modifying said control air pressure whereby the fuel flow is a function



of said difference in fluid pressures and said speed.

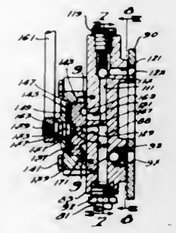
2,667,744
INTERNAL-COMBUSTION TURBINE
Frank David Butler, Venice, Calif.
Application December 6, 1951, Serial No. 260,157
14 Claims. (Cl. 60—39.34)



1. In an internal combustion turbine having a stator and a cylindrical rotor rotatable in one direction therewithin and wherein said rotor is equipped with at least one row of tangential chambers open at the periphery thereof, and wherein said stator is equipped with means connected therewith for consecutively introducing a series of explosive charges into, and of igniting each such charge within, each of said chambers during each revolution thereof said rotor, the provision therein and therewith of: a series of groups of consecutively progressively increasing in capacities of tangential buckets each extending internally into said stator and open to said periphery of said rotor opposite to said tangential chambers and cooperative consecutively therewith the latter, and wherein the smallest capacity of each group of series of said tangential buckets are each located adjacent to and in series with an ignition means which latter in turn is in series with an adjacent fuel mixture charging means of each such group, and wherein the largest capacity of each of said series of buckets in each of said series of groups are open via an exhaust compartment to the atmosphere; and, means, associated with and occuring within each of said groups for forming a complete internal combustion cycle of operations therewithin for each of said explosive charges introduced into and ignited within each of said tangential chambers consecutively within each of such respective groups.

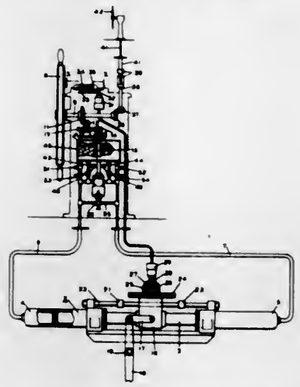
11. An internal combustion turbine assembly forming the intermediate portion extending between the axle housings of two opposite traction wheels of an automotive vehicle, and comprising in combination; a turbine rotor, rotatable in one direction in a stator, in tandem with the drive sun-gear of a multiple geared, planetary type of oil drenched, elastic fuel mixture compressor which supplies compressed fuel mixture to said turbine and which compressor is provided with a gearing housing extending jointly in tandem with said stator and thus forms said intermediate portion of said axle housing.

2,667,745
CONTROL VALVE FOR FLUID OPERATED LIFTS
Charles Joseph Smith and William Esdale, Monroe, Mich., assignors to Monroe Auto Equipment Company, Monroe, Mich., a corporation of Michigan
Application February 14, 1948, Serial No. 8,444
2 Claims. (Cl. 60—52)



2. An adjustable control valve for use in a power operated unit; including a valve body, a first passageway in said body adapted to be connected to the pressure side of a fluid pump, a pressure relief valve operatively connected to said first passageway to maintain a predetermined pressure therein, a second passageway adapted to be connected to a cylinder, a third passageway adapted to be connected to a second cylinder or to the opposite end of the first cylinder, an adjustable pressure relief valve operatively connected to said third passageway for the maintenance of a predetermined pressure therein, a fourth passageway in said valve body adapted for use in discharging fluid from said valve body to a fluid reservoir tank, a fifth passageway in said valve body adapted to be connected to the fluid reservoir tank and to the suction side of the pump to which the first passageway is adapted to be connected, a rotor rotatably connected to said valve body and having a plurality of passageways therein adapted to connect certain of said valve body passageways for permitting various operating conditions to be obtained with the use of said valve, means for releasably retaining said rotor in a predetermined setting with respect to said valve body, and means for rotating said rotor with respect to said valve body whereby in one setting said first passageway is connected with said second passageway while said third passageway is connected with said fourth passageway, in a second setting wherein said third passageway is connected with said first passageway and said adjustable pressure relief valve while said second passageway is connected with said fourth passageway, in a third setting wherein said first passageway is connected with said fourth passageway so that fluid pressure may be locked in said second passageway while said third passageway may be set for a zero fluid pressure by adjusting said pressure relief valve, and in a fourth setting wherein said second passageway is connected with said fourth passageway and said first passageway is connected with said third passageway and said adjustable pressure relief valve is set to maintain a zero fluid pressure in said third passageway so that both said second and third passageways are free of fluid pressure.

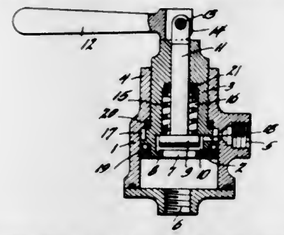
2,667,746
STEERING APPARATUS
August W. Kumpf, Conshohocken, and Thomas A. Harvey, Havertown, Pa., assignors to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 12, 1953, Serial No. 361,189
6 Claims. (Cl. 60—52)



1. Steering apparatus comprising in combination a hydraulic steering motor, a positive displacement pump connected to said motor, control means for the pump, a manual steering member, a rotary pump having a driving connection with said member, a second hydraulic motor operatively connected to the said pump control means as an actuator for the latter and connected to the rotary pump for transmitting hydraulically to said control means the movements of the said steering member, means for limiting the travel of said second motor, and said second motor except for its connection with said control means being free for unrestrained movement over the full extent of said travel.

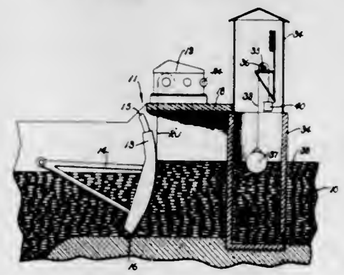
2,667,747
HYDRAULIC REDUCING VALVE
Stanley Howard Edge and Frederick Leslie Beet, Lincoln, England, assignors to Clayton Dewandre Company Limited, Lincoln, England, a British company
Application March 27, 1950, Serial No. 152,153
Claims priority, application Great Britain March 28, 1949
7 Claims. (Cl. 60—54.6)

1. A hydraulic valve, comprising a cylindrical housing having a fluid pressure inlet thereto and an outlet therefrom, the housing being formed with a sleeve, a piston having two differential areas disposed within the housing between the inlet and outlet and having an extension slidably mounted within the sleeve of the housing, the piston being formed with an internal chamber and with a port in its lower surface opening into said chamber and through which the inlet normally communicates with the outlet, a stem slidably mounted within the piston extension and projecting externally thereof, a valve member located within said chamber of the piston and carried upon the inner end of said stem, hand-operable means connected to the externally projecting portion of the stem for moving the valve member relatively to the piston to open said port, and a spring acting constantly on the valve member and operative under control of the hand-



operable means to urge the valve member from open position in which fluid is free to flow from the inlet to the outlet, into a seated position against said port and thereby interrupt the flow of fluid therethrough and cause fluid pressure from the inlet to act upon the smaller area of the piston to thereby move the piston to transmit pressure on a reduced scale to the outlet.

2,667,748
ELECTRICALLY OPERATED CONTROL SYSTEM
Roy W. Heath, Fresno, Calif.
Application March 4, 1953, Serial No. 340,207
8 Claims. (Cl. 61—25)

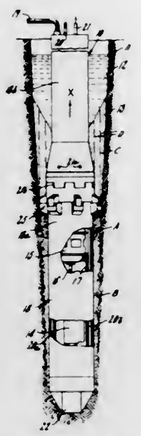


1. A fluid regulating system comprising means for detecting the surface level of a body of fluid subject to fluctuation by accretion and depletion of the fluid, electrically controlled means for increasing and decreasing the quantity of fluid in the body to correct for excessive accretion and depletion, switch means having controlled connection to the detecting means and controlling connection to the controlled means operable to decrease the fluid in the body when the level rises above a predetermined upper limit and to increase the fluid in the body when the level descends below a predetermined lower limit in downwardly spaced relation to the upper limit, and timing means in the electrical system adapted to interrupt the system in time spaced increments of predetermined duration.

2,667,749
VIBRATOR DEVICE
Sergey Steuerman, New York, N. Y.
Application June 25, 1952, Serial No. 295,526
6 Claims. (Cl. 61—36)

1. A vibrator device for treating earth and like material; comprising an upper shell part, a lower shell part, said shell parts when in assembled condition being adapted to house vibrating means, a plurality of lug means arranged in

spaced apart relation to each other, each lug means comprising a portion exteriorly fixed to said upper shell part and a further portion exteriorly fixed to said lower shell part, the respective lug portions being in registry with each other in assembled condition of said shell parts, and connecting means extending into said lug means, respectively, to hold the respective por-



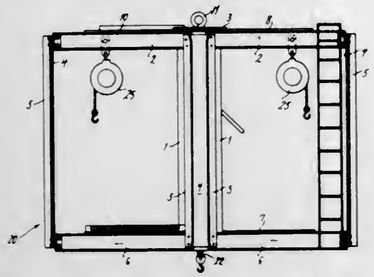
tions together, the length of said lug means in assembled condition of said shell parts and the distance between said lug means being sufficient to substantially obviate, between said spaced apart lug means, accumulation of material under treatment, said lug means being shaped to cut channels of appreciable dimensions into said material when moving said lug means relative to the latter.

2,667,750

METHOD AND APPARATUS FOR SINKING MINE SHAFTS

Charles K. Bain, Bonne Terre, Mo.

Application June 13, 1952, Serial No. 293,306
15 Claims. (Cl. 61—40)



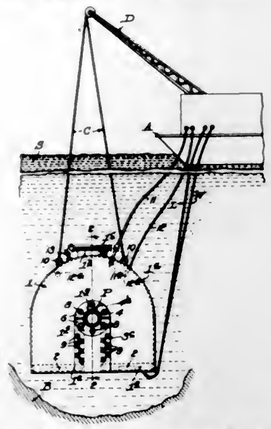
1. The method of sinking mine shafts, comprising, excavating a shaft section to a predetermined depth, rigidly mounting a plurality of guide beams in vertical position along the sides of the excavated section, securing concrete-supporting bottom forms to the lower portions of said beams above the bottom of said excavated section, securing upright forms to said beams to extend along the wall of said excavated section but spaced therefrom, said bottom forms closing the space between said upright forms and said wall, and pouring concrete between said upright forms and said wall to mold a shaft-lining section having its lower end spaced above the bottom of said excavated shaft section.

2,667,751

REPAIR CHAMBER FOR SUBMERGED PIPE LINES

Lee I. Osborn, Muscatine, Iowa

Application May 20, 1952, Serial No. 288,893
10 Claims. (Cl. 61—69)



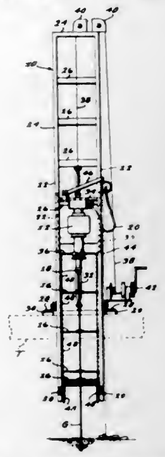
1. A repair device to isolate a leaky section of underwater pipe line, comprising a submergable chamber open at its bottom and having opposite slots in its sides extending upwardly from said bottom and adapted to receive said pipe line with said leaky section within said chamber; packing means fitting snugly around said pipe line and closing said slots against entry of water; a duct through the top of said chamber having a control valve therein; means in said chamber for introducing pressurized air thereinto to force the water from the chamber; an emergency escape hatch in the top of said chamber; and floor boards across the bottom of the chamber, said boards being mutually spaced to provide therebetween access to the interior of the chamber.

2,667,752

GROUND ROD DRIVING MEANS

Charles W. Moseley, Charlotte, N. C., assignor to R. H. Bouligny, Inc., a corporation of North Carolina

Application April 13, 1951, Serial No. 220,801
3 Claims. (Cl. 61—73)



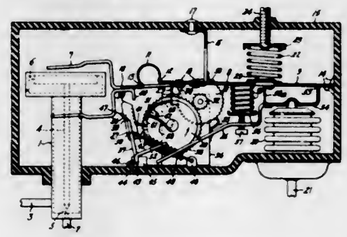
1. Ground rod driving means comprising an impact mechanism incorporating a chuck for gripping the upper end of a ground rod and driving the same, a plurality of plate members, flexible connecting elements joining said plate members serially in collapsible, parallel spaced relation and securing said serially joined plate members to said impact mechanism for hanging vertically therefrom in said parallel spaced relation, vertically disposable guide means for said impact mechanism and said plate members, and means for raising and lowering said impact mechanism on said guide means when vertically disposed, said guide means extending in a length providing a ground rod driving reach for said impact mechanism, and said plate members having vertically aligned apertures for receiving a ground rod therethrough in bracing relation while hanging from said impact mechanism.

2,667,753

AUTOMATIC DEFROST CONTROL

Charles S. Grimshaw, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application December 19, 1951, Serial No. 262,446
12 Claims. (Cl. 62—2)



1. A refrigerator control comprising a pivoted operating arm movable between two positions for starting and stopping refrigeration at predetermined maximum and minimum temperatures, a temperature-responsive element for effecting movement of said arm, a biasing spring engaging said arm for opposing said element, a pivoted interfering member movable between a first position wherein said member acts as a stop for said arm and a second position wherein said member does not obstruct movement of said arm, said member including a roller at one end thereof for engaging said arm, a cam engaging said member for affording movement of said member between said first and second positions, and means actuated at a predetermined abnormally high maximum temperature for shifting said member from said first position to said second position to terminate opposition by said member to movement of said arm.

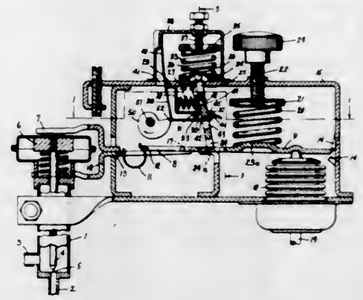
2,667,754

AUTOMATIC DEFROST CONTROL

Charles S. Grimshaw, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application December 19, 1951, Serial No. 262,447
13 Claims. (Cl. 62—2)

1. A refrigerator control comprising a pivoted operating arm movable between two positions for starting and stopping refrigeration at predetermined maximum and minimum temperatures, a temperature-responsive element engaging said arm for effecting movement thereof, a biasing spring engaging said arm for opposing said element, an interfering member movable between a first position wherein said member opposes movement of said arm and a second position wherein said member does not oppose movement of said arm, a latch for engaging said member, means for moving said latch to shift said mem-



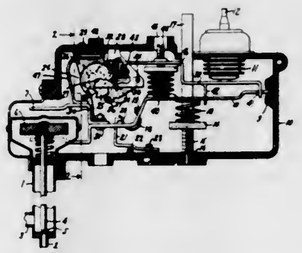
ber to its first position, and means for biasing said member toward its second position.

2,667,755

AUTOMATIC DEFROST CONTROL

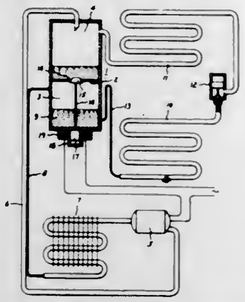
Charles S. Grimshaw, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application December 19, 1951, Serial No. 262,448
9 Claims. (Cl. 62—2)



1. A refrigerator control comprising an operating arm movable between two positions for starting and stopping refrigeration at predetermined maximum and minimum temperatures, a temperature-responsive element for effecting movement of said arm, a biasing spring engaging said arm for opposing said element, a rotatable structure including a cam and a ratchet, a pawl mounted on said arm and engaging said ratchet for rotating said cam upon movement of said arm to its refrigeration-starting position, said cam having a recess in the periphery thereof, a pivoted lever, said lever including a roller, a second spring for biasing said lever to urge said roller into engagement with the periphery of said cam whereby said roller rides on the periphery of said cam during normal operation, said roller being receivable within said recess after predetermined rotation of said cam for blocking further movement of said rotatable structure, the engagement of said pawl with said ratchet preventing movement of said arm to its refrigeration-starting position when further movement of said cam is prevented by engagement of said roller with said recess whereby a defrost period is initiated, and means dependent upon a predetermined abnormally high temperature of said temperature-responsive element for engaging and shifting said roller out of said recess to again afford movement of said ratchet whereby said defrost period is terminated.

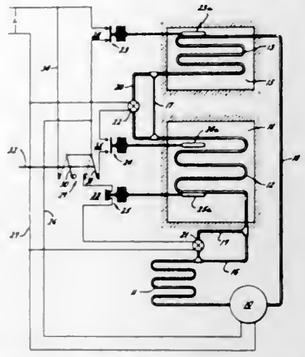
2,667,756
TWO-TEMPERATURE REFRIGERATING SYSTEM
Leonard W. Atchison, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application January 10, 1952, Serial No. 265,811
7 Claims. (Cl. 62—3)



1. A refrigerating system comprising a refrigerant reservoir, a header located above said reservoir, a refrigerating unit supplying refrigerant to said reservoir and exhausting refrigerant from said header, refrigerant evaporating means, one side of said refrigerant evaporating means being connected to said reservoir below the normal level of a liquid reserve therein, the other side of said refrigerant evaporating means being connected to said header, means providing communication between said reservoir and said header, a solenoid-operated valve controlling said communication between said reservoir and said header, and control means for said solenoid-operated valve operated in response to the operation of said refrigerating unit to effect the operation of said valve to close said communication during operation of said refrigerating unit thereby to permit an accumulation of pressure in said reservoir and the prompt supply of refrigerant therefrom, and said control means effecting the operation of said solenoid-operated valve to open said communication during idle periods of said refrigerating unit thereby to permit drainage of liquid refrigerant from said header into said reservoir and effect the equalization of pressure between the high and low pressure sides of the system.

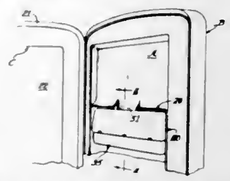
2,667,757
PLURAL TEMPERATURE REFRIGERATION SYSTEM
Malcolm G. Shoemaker, Doylestown, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application February 7, 1952, Serial No. 270,325
3 Claims. (Cl. 62—8)

1. In a series-flow refrigeration system, refrigerant circulating means, first and second series-connected evaporators, a pair of restrictors one of which is disposed between said circulating means and said first evaporator and the other of which is disposed between said first and second evaporators, and apparatus providing, selectively, either for condensation of gaseous refrigerant within said first evaporator and consequent heating of the same with continuance of normal refrigeration within said second evaporator, or for modulation of the refrigerating temperature of said first evaporator, said apparatus comprising: a pair of conduits through which refrigerant may flow, one conduit being arranged to by-pass the restrictor which is disposed between said circulating means and said first evaporator, and the other conduit being arranged to by-pass the restrictor which is disposed between said first and second evaporators; and means including a first valve device adapted to control flow of refrigerant through said one conduit, said first valve device being effective, when opened, to cause gaseous refrigerant flowing from said circulating means to by-pass said first restrictor only and to flow into said first evaporator through said one conduit, whereby to effect condensation of gaseous



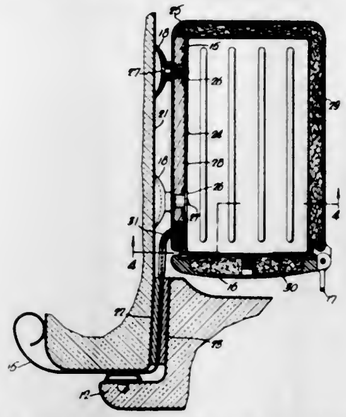
refrigerant within said first evaporator, said means further including a second valve device adapted to control flow of refrigerant through said other conduit, said second valve device being responsive to predetermined temperature conditions at said first evaporator to move to open position and to cause flow of refrigerant through the said other conduit by-passing said second restrictor only, whereby to modulate the temperature of said first evaporator.

2,667,758
EGG STORAGE COMPARTMENT FOR REFRIGERATORS
Raymond M. Tenney, Wilmette, Ill., and James R. Hornaday and Donald H. Reeves, North Muskegon, Mich., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application April 11, 1951, Serial No. 220,472
6 Claims. (Cl. 62—89)



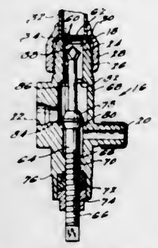
1. In a refrigerator having a food compartment, a door therefor and a liner for said door, an egg storage compartment incorporated in said door comprising the combination of a chamber provided with an opening, said chamber being defined by a top wall, a rear wall, and a pair of side walls, each of said walls forming an integral part of said liner of the door, a shelf-like structure removably carried by said walls, said shelf-like structure having one wall defining a bottom wall of said compartment and a second wall defining a front wall and adapted to partially enclose said opening, and a tray removably and hingedly carried by said shelf-like structure, said tray including a wall adapted to provide a closure means for said opening, and means arranged whereby circulated air may flow through said compartment.

2,667,759
REFRIGERATOR APPARATUS
Ernest Harold Brown, Binghamton, N. Y.
Application July 25, 1952, Serial No. 300,931
4 Claims. (Cl. 62—89)



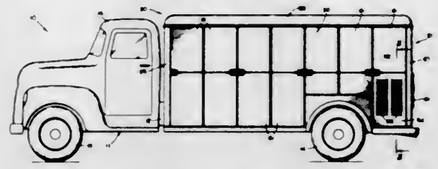
1. In a refrigerator including a refrigerated compartment having a door-closed opening and a breaker strip thereabout, a thermally insulated auxiliary compartment within said refrigerated compartment, and heat transfer means extending from said auxiliary compartment through said door opening and across said breaker strip to the exterior of said cabinet for transferring heat from the outside to said auxiliary compartment, whereby to maintain a temperature in said auxiliary compartment above the temperature in said refrigerated compartment and suitable for preserving butter and the like.

2,667,760
RUPTURABLE APPARATUS FOR SEALING FLUID SYSTEM ELEMENTS
Charles L. Curtis, Pasco, Ohio, assignor to Copeland Refrigeration Corporation, Sidney, Ohio, a corporation of Michigan
Application July 29, 1949, Serial No. 107,524
11 Claims. (Cl. 62—115)



2. In combination a pair of refrigerating system elements, each of said elements having an opening through a wall thereof, said openings being adapted to be arranged in juxtaposition to permit flow of refrigerant between said elements, attaching means clampingly securing said walls in contacting engagement with each other, each said element being provided with a frangible seal located adjacent its said wall and individually closing its respective opening, said seals being adjacent outermost portions of the engaging portions of said elements whereby when said walls are in engagement the space between said seals is substantially eliminated, and rupturing means carried within one of said elements on the side of said one element seal away from the other of said seals for rupturing both said seals to initiate fluid flow between said elements.

2,667,761
HIGHWAY TRUCK WITH SELF-CONTAINED REFRIGERATION SYSTEMS
Lawrence T. Sellstrom, Los Angeles, Calif., assignor to Knudsen Creamery Co. of California, Los Angeles, Calif., a corporation of California
Application November 3, 1951, Serial No. 254,674
6 Claims. (Cl. 62—117)

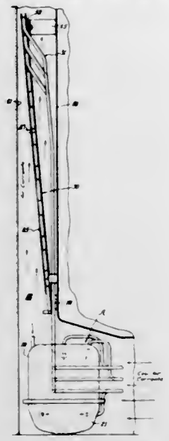


1. In a refrigerated body for use on a highway truck chassis having a frame and driver's cabin, the combination of: a cold box having thick insulated walls and adapted to rest on and be secured to the frame of said chassis behind the driver's cabin thereof, said cold box being divided by a series of transversely disposed cold plates into a succession of relatively narrow compartments, the side walls of said body comprising two like series of full height narrow doors hingedly mounted on vertical axes along opposite sides of said box, said doors being arranged in opposed pairs, each such pair of opposed doors giving access to opposite ends of one of said compartments, there being an angled recess formed transversely in the rearmost and bottom insulated walls of said box at the lower rear corner of and across the full width of the box; and a self-contained refrigerant compressing unit housed within the space formed by said recess, said unit supplying compressed refrigerant to said cold plates to substantially uniformly refrigerate said compartments.

2,667,762
CONDENSER FOR REFRIGERATING SYSTEMS
James R. Hornaday, North Muskegon, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application April 26, 1951, Serial No. 223,084
2 Claims. (Cl. 62—117.4)

1. In a refrigerating system, having an evaporator and casing means forming a chamber within which a compressor is disposed, a refrigerant superheat removing coil, an outlet from said coil discharging the partially cooled refrigerant into the chamber, a condenser, an outlet from the chamber through which the compressed refrigerant is discharged into said condenser, fluid flow connections between said condenser, evaporator, and compressor, said condenser comprising a serpentine coil adapted to contain refrigerant, means mounting the loops of said serpentine coil and superheat removing coil in substantially a single plane disposed at a small acute angle to the vertical, and the means providing additional surface area for contact with air currents comprising a plurality of straight rod-like elements, means mounting some of said elements in contact with first surfaces of said serpentine and superheat coils each of which first surfaces face in the same direction, and means mounting the remainder of said elements in contact with sur-

faces of said coils opposite to said first surfaces and in staggered relationship to said elements in contact with said first surfaces of said coils



whereby air currents passing upwardly and through said condenser by convection define a foil section to wipe the surfaces of said coils and said rod-like elements.

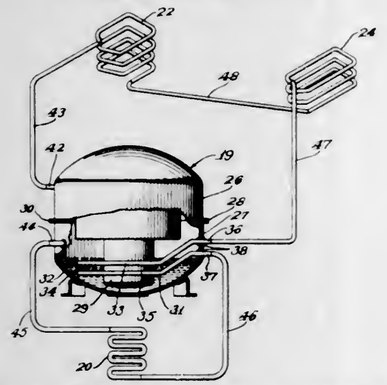
2,667,763

COOLING MEANS FOR MOTOR COMPRESSOR UNITS

Charles D. Harris, Robert L. Eichhorn, John R. Prosek, and Gerald P. McNamara, Evansville, Ind., assignors to International Harvester Company, a corporation of New Jersey

Application September 29, 1950, Serial No. 187,546

6 Claims. (Cl. 62—117.7)



2. In a refrigeration system, a casing which encloses a motor-compressor unit, an oil for lubricating and cooling said motor-compressor unit, an oil reservoir in the bottom portion of said casing containing said oil, said compressor extending into said oil reservoir, a cooling coil positioned in said oil reservoir having circular shaped turns which extend around said compressor and end portions which extend through said casing and are secured thereto, said turns spaced between said compressor and said casing, a heat exchange unit connected in said refrigeration system and to said coil, and a refrigerant in said system which is cooled by said heat exchange unit and then passed through said coil where it absorbs heat from said oil from the motor-compressor unit.

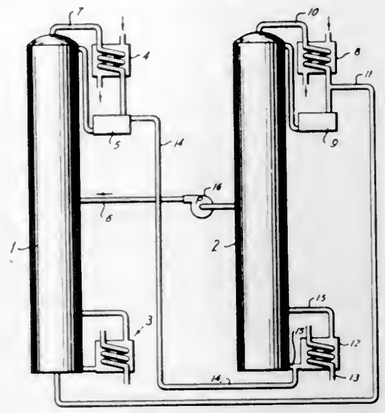
2,667,764

REFRIGERATION METHOD, SYSTEM, AND APPARATUS

Nelson C. Turner, Houston, Tex., assignor to Hudson Engineering Corporation, Houston, Tex., a corporation of Texas

Application January 18, 1950, Serial No. 139,231

5 Claims. (Cl. 62—119)



1. The method of producing refrigeration utilizing two volatile and completely miscible liquids which may be readily separated by fractionation and having materially different boiling points at the pressures existant within the system, comprising the steps of evaporating the lower boiling liquid in an evaporation zone to produce refrigeration, passing the resultant gas in countercurrent contact with the higher boiling liquid in a gas liquid contacting zone under controlled ratios and withdrawing a mixture of said liquids from an intermediate point in said contacting zone such that all the gas released from the contacting zone is substantially the higher boiling component, and all the liquid bottoms product from the contacting zone is substantially the lower boiling component, passing the liquid bottoms product into the evaporation zone and countercurrently contacting the resultant gas with the liquid in said contacting zone, condensing the contacting zone gas product and passing the condensate into the contact zone as a liquid.

2,667,765

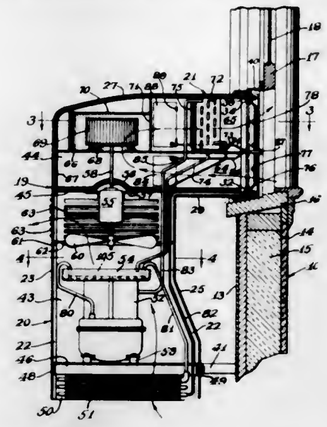
WINDOW MOUNTED AIR CONDITIONING UNIT

Charles D. Harris and Joseph A. Galazzi, Evansville, Ind., assignors to International Harvester Company, a corporation of New Jersey

Application January 22, 1952, Serial No. 267,542

8 Claims. (Cl. 62—140)

1. In a unit for conditioning room air, the combination of a cabinet secured to the outer surface of a building wall adjacent a window which opens into a room; a partition for dividing the cabinet into a low side compartment and a high side compartment; said cabinet being provided with a projection which extends into said window and terminates adjacent the outer surface of a window pane; said projection being provided with an opening which connects said low side compartment to said room; a wall member for dividing said low side compartment and projection into an air inlet passageway and an air outlet passageway; fan means for pulling room air through said opening, circulating the air through said inlet passageway and said outlet passageway, and then returning it to said room through said opening; an evaporator disposed across said outlet passageway whereby the air circulating therethrough will be cooled; a first opening provided in said cabinet which connects said inlet passageway to outside air; valve means



for opening and closing said first opening; a second opening provided in said cabinet between said evaporator and said inlet passageway which connects said outlet passageway to outside air; and valve means for opening and closing said second opening.

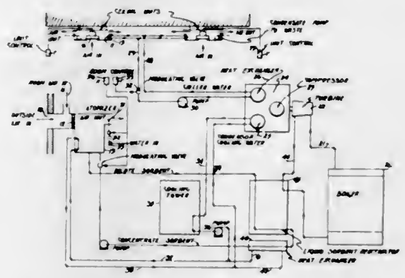
2,667,766

METHOD OF BALANCING STEAM CONSUMPTION IN AIR CONDITIONING

William Warren Cummings, Bradford, Vt.

Application October 29, 1948, Serial No. 57,325

9 Claims. (Cl. 62—176)



1. The method of air conditioning which combines the cooling and humidification of air in a balanced steam operated dual system utilizing a steam turbine driven refrigerating compressor supplying refrigerant to a cooling element wherein water is cooled, cooling the air by bringing it into heat exchange with the cooled water, removing the moisture from the air by means of chemical sorbents, reactivating the chemical sorbents by utilizing the exhaust steam from the compressor unit and automatically spraying moisture into the dehumidified air until the desired relative humidity has been reached, to provide an evaporative cooling action and to further reduce the sensible heat load on the refrigerating compressor.

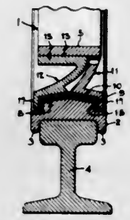
2,667,767

RESILIENT WHEEL

Clarence R. Burrell, Cincinnati, Ohio

Application January 14, 1950, Serial No. 138,693

2 Claims. (Cl. 64—11)



1. A resilient wheel comprising, a hub having a machined peripheral surface of substantial length, an outer rim of ring configuration having a layer of cushioning material at its internal periphery, the said hub, at an endwise portion thereof, having a flange extending laterally from the axis thereof, the said flange having an outer peripheral portion in circumferential supporting engagement with a portion of the said cushioning layer, and a keeper member having an outer peripheral portion in circumferential supporting engagement with another portion of said cushioning layer, the said keeper member having a central portion terminating adjacent the said flange, and being in tight frictional engagement with the said machined surface of the hub throughout substantially the entire length thereof, the said keeper member having a flange portion located adjacent the first said flange and interconnecting the central portion of the said keeper member with the said outer peripheral portion thereof.

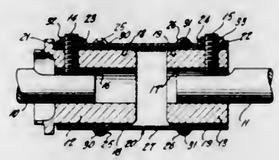
2,667,768

TORQUE TRANSMITTING COUPLING

Herman E. Winkler and Maurice F. Winkler, Lebanon, Ind., assignors, by mesne assignments, to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application November 27, 1951, Serial No. 258,387

11 Claims. (Cl. 64—11)



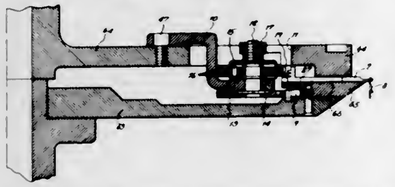
1. A torque transmitting coupling for use with two aligned shafts, comprising two shaft attachable, hub members, each having a radial, outwardly projecting element, a concentric, open ended, metallic sleeve about the hub members and having oversize openings which receive the radially projecting elements, resilient, non-metallic spacers between the hub members and the sleeve and acting to keep them out of contact, and resilient, non-metallic spacers about the projecting elements and in the oversize openings in the sleeve to transmit the torque and keep the projecting elements out of contact with the sleeve.

2,667,769

PATTERN MEANS FOR CIRCULAR KNITTING MACHINES AND METHOD OF OPERATING SAME

Whitman D. Ide, Laconia, N. H., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts

Application November 1, 1950, Serial No. 193,480
7 Claims. (Cl. 66—95)



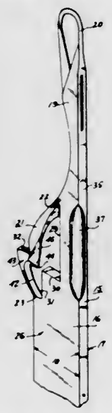
1. A circular knitting machine having a circle of independent knitting elements, a member carrying same, a plurality of feeds, and a plurality of relatively rotatable pattern wheels rotating at the same linear speed as the circle of elements and adapted to give individual elements differentiated pattern manipulation, each wheel having a plurality of superposed discs and each disc having peripheral pattern indications; the number of knitting elements in the circle being more or less than an even multiple of the number of pattern indications on any disc by a number evenly divisible into the total number of knitting elements, thereby making the pattern wheels progressive; in combination with the division of the indications for the pattern into units, there being a disc in each wheel for each different pattern unit, the indications for each unit being divided among the various wheels, and there being butts on the knitting elements adapted with the pattern indications to select only horizontally symmetrical pattern indications.

2,667,770

TRANSFER NEEDLE FOR KNITTING MACHINES

Julius Sirmay, Philadelphia, Pa., assignor to Ordnance Gauge Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 23, 1950, Serial No. 180,979
15 Claims. (Cl. 66—95)



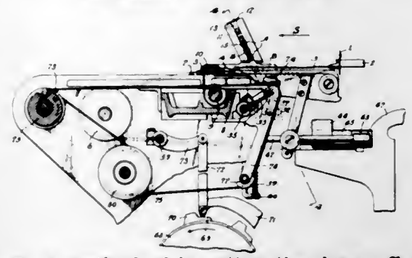
1. A stitch-transfer knitting-needle for use in automatic knitting machines, said knitting-needle having a hook and a body-portion, a bridge projecting laterally from one side-surface of said body-portion and being integrally united therewith at its ends and spaced therefrom in the intermediate zone, said bridge having an abutment disposed at an angle to the longitudinal axis of said needle whereby to provide a yarn-retaining shoulder on said bridge, at least one inclined camming surface formed in the outer side of said bridge, and an inclined camming surface formed in the body-portion of said needle generally beneath said bridge.

2,667,771

STRAIGHT KNITTING MACHINE AND METHOD OF OPERATING THE SAME

Jaroslav Václavík, Zlin, Czechoslovakia, assignor to Bata, narodni podnik, Zlin, Czechoslovakia

Application September 23, 1948, Serial No. 50,794
Claims priority, application Czechoslovakia December 12, 1947
14 Claims. (Cl. 66—96)



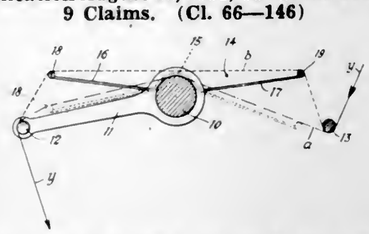
1. In a method of inserting the draw-off rods for the double welts of stockings to be knitted on a straight knitting machine having sets of draw-off rods contained in magazines and take-up devices operable to engage draw-off rods in the magazines, which comprises advancing the magazines to position the lowermost draw-off rods therein in the path of the take-up devices and effecting the transfer of the lowermost draw-off rods from the magazines to the welt of the knitted fabric in a fully automatic manner in timed relation with the operation of the knitting machine.

2,667,772

AUXILIARY YARN TENSIONING MEANS

Carlos A. Hepp, Englewood, N. J., assignor to Alfred Hofmann & Co., West New York, N. J., a corporation

Application August 14, 1951, Serial No. 241,832
9 Claims. (Cl. 66—146)



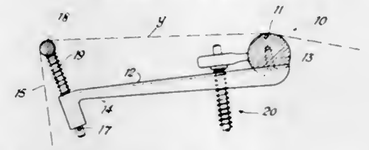
1. In a warp knitting machine, the combination of a movable fulcrum member, a yarn guide tension bar on said movable member, and auxiliary yarn tensioning means mounted on said fulcrum member and including a resiliently mounted auxiliary yarn guide tension bar having an axis normally located in a plane parallel to a plane containing the axes of said movable member and first mentioned yarn guide tension bar, said auxiliary yarn guide bar being movable towards and away from said second mentioned plane.

2,667,773

WARP TENSIONING BAR FOR KNITTING MACHINES

Carlos A. Hepp, Englewood, N. J., assignor to Alfred Hofmann & Co., West New York, N. J., a corporation

Application August 14, 1951, Serial No. 241,833
7 Claims. (Cl. 66—146)



1. In a warp knitting machine, a support, an arm fixed to said support, a member mounted on said arm for slidable movement substantially transversely of said arm, a yarn tension bar mounted on said member and resilient means on said member for resiliently supporting said bar relative to said arm.

2,667,774

CIRCULAR KNIT STOCKING AND METHOD OF MAKING SAME

John M. Allen, Toronto, Ontario, Canada, assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts

Application October 6, 1949, Serial No. 119,953
14 Claims. (Cl. 66—179)



1. A circular knit stocking having a reciprocatorily knit heel, a leg and a foot, in combination with a tapered insert comprising a gusset and two wedges, the gusset extending under the stocking adjacent the forward edge of the heel and being united to the wedges by sutures, the wedges being located just below a line running directly from the inner end of the heel suture to the front of the instep, one on each side of the stocking with a point at the front of the instep, each wedge and adjacent instep fabric being knit together as continuing courses along one instep edge of said wedge without any sutures intervening between the wedge and that adjacent fabric, whereby a better fitting stocking is produced.

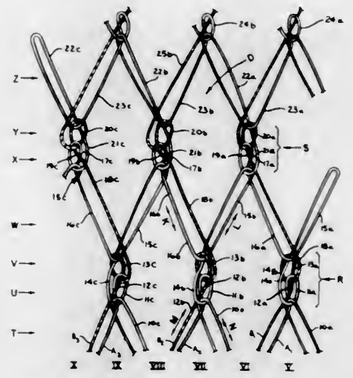
2,667,775

KNITTED FABRIC

Fredric L. Aibel, Brooklyn, N. Y.

Application October 24, 1951, Serial No. 252,913
7 Claims. (Cl. 66—195)

1. In a lace-like knitted fabric of substantially uniform polygonal mesh formation, a plurality of pairs of warp threads formed into a plurality of wales and courses, the two threads of each of said pairs forming interengaged contracted loops in wales at different courses, to constitute juncture portions of said polygonal mesh formation, one of the two threads of each of said pairs having floated portions in certain courses and the other of said two threads having laid-in portions in certain other courses, a plurality of pairs of said threads extending from one wale to another wale in a single course to form sides of said polygonal mesh formation.

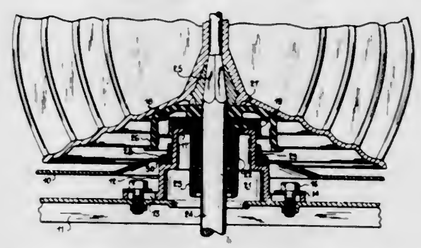


2,667,776

UNDER LIQUID SEAL FOR ROTATABLE SHAFTS

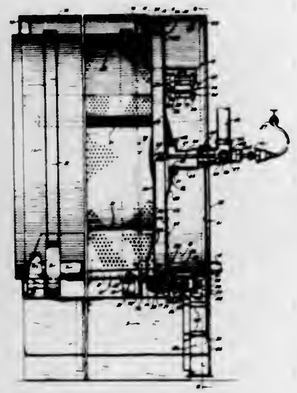
Ralph E. Kortepeter, Cleveland Heights, and Ralph L. Archbold, Euclid, Ohio, assignors to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application October 31, 1950, Serial No. 193,162
1 Claim. (Cl. 68—133)



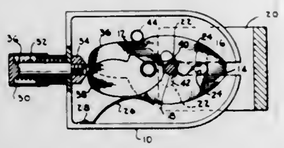
In a washing machine the combination with a tub having a perforated base, an oscillatable shaft projecting upwardly through the base perforation, a seal encircling the shaft and mounted in the base, and an agitator connected to the shaft above the seal, of means preventing liquid from contacting the seal, said means comprising a diving bell of inverted cup form having a generally circular flange and disposed between the base of the agitator and seal, the diving bell flange encircling the seal in spaced relation and extending a substantial distance below the seal top surface, the central portion of the bell being of resilient tubular form and gripping the shaft in air-tight relation, and the seal preventing the escape of air downwardly along the shaft whereby when the liquid level in the tub is above the diving bell an air pocket will be formed in the bell preventing liquid from contacting the seal.

2,667,777
WASHING MACHINE WITH END DUMP DOORS
Olaf E. Kling, Chicago, and John P. Jorgenson, Wilmette, Ill.
Application March 10, 1950, Serial No. 148,954
9 Claims. (Cl. 68—144)



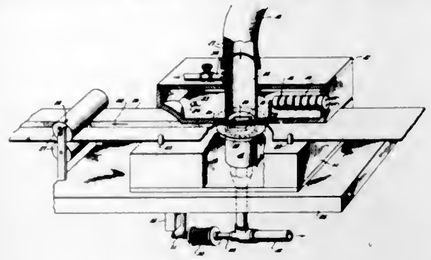
1. In a washing machine: a rotatable drum having an open end; a dump door for closing said open end, said door being formed with a central aperture; fluid pressure operated means on the drum for moving said dump door axially into and out of closing relationship with respect to said open end; a stationary sleeve extending through said dump door aperture for introducing washing liquid into said drum; a fluid pressure supply conduit extending axially through said sleeve and connected to said fluid pressure operated door moving means, there being a rotating joint in said supply conduit located axially of said sleeve; and a flexible centrally apertured diaphragm closing said dump door aperture and embracing the periphery of said sleeve, said diaphragm being adapted to flex in a manner to adjust itself to the open and closed positions of the dump door.

2,667,778
LOCK MECHANISM
Nickolas Schmitt, Wolverine, Mich.
Application January 14, 1952, Serial No. 266,289
10 Claims. (Cl. 70—150)



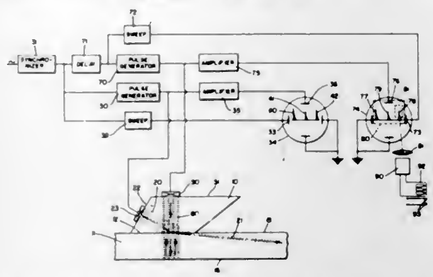
1. A lock device comprising a lock having a pair of pivotally mounted dogs adapted when closed to hold a pin, spring means for urging said dogs to a closed position and a push button for spreading said dogs to release said pin, and a means extending from a remote position into said lock and abutting against said dogs to prevent the latter from swinging to an open position, said means being operable from the remote position to be withdrawn, for releasing said dogs so that the same can be opened.

2,667,779
ANALYTICAL APPARATUS FOR SMOKES AND GASES
Ernest Kurt von Brand, Dobbs Ferry, N. Y.
Application December 29, 1950, Serial No. 203,309
2 Claims. (Cl. 73—28)



1. A device for measuring the quantum of solid suspended in a gas that comprises a pair of plates arranged face to face to define therebetween a passageway for a filter tape, the facing surfaces of said plates being uniformly hard and smooth throughout their entire area, means to move succeeding portions of a filter tape through the passageway defined between said plates, said plates having registering apertures on opposite sides of the tape passageway, two defining edges of each of said apertures being parallel to the direction of tape movement and the other two defining edges of each of said apertures being equal distances apart in any plane parallel to the direction of tape movement, the area of said plates being much greater than the area of the apertures therein, one of said plates being biased toward the other to compress the tape passed therebetween so that it may function as a gasket, means to deliver a gas to be tested to one of said apertures and means to create a lower pressure than that of the gas delivery pressure at the other of said apertures.

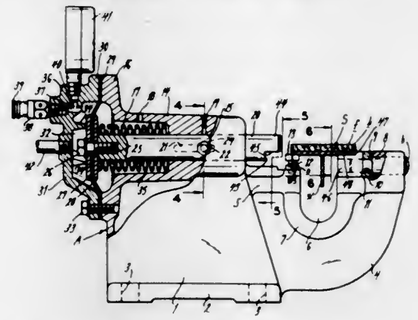
2,667,780
ULTRASONIC INSPECTION DEVICE
Howard E. Van Valkenburg, Danbury, Conn., assignor to Sperry Products, Inc., Danbury, Conn., a corporation of New York
Application July 26, 1951, Serial No. 238,667
1 Claim. (Cl. 73—67)



A device for ultrasonically inspecting an object, said object having a relatively long dimension and a relatively short dimension, comprising a search unit including a support having a surface adapted to engage the object, said support having a second surface disposed at an angle to normal with respect to said first surface, an electro-acoustic transducer engaging said inclined surface, means for periodically energizing said transducer to produce ultrasonic pulses, said inclined surface being so positioned

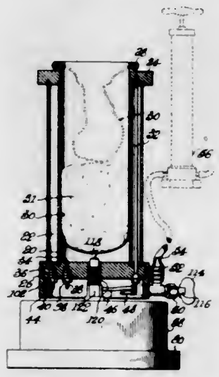
that said pulses are transmitted into the object in the direction of the long dimension, means for receiving reflections of said pulses, means for indicating the received reflections of said pulses, said support having a third surface, a second electroacoustic transducer engaging said third surface, means for periodically energizing said second transducer to produce pulses alternating with said first pulses, said third surface being positioned so that pulses from said second transducer are transmitted to the said area of the surface of the object and into the object in the direction of the short dimension to test the adequacy of coupling between the search unit and the object, means for receiving reflections of said second pulses, and means for indicating the received reflections of the second pulses, the receipt or non-receipt of reflections of said second pulses indicating adequate or inadequate coupling, respectively.

2,667,781
BRAKE LINING TESTING MACHINE
Harry B. Barrett, St. Louis, Mo.
Application August 28, 1950, Serial No. 181,781
7 Claims. (Cl. 73—101)



1. A testing machine for determining the strength of securement between a brake lining and the brake shoe upon which it is mounted, said testing machine comprising a bracket having two upwardly presented spaced shoulders, an anvil mounted on one of the shoulders and being provided with an upstanding abutment, the height of which is slightly less than the thickness of the brake shoe, a support-member mounted on the other shoulder and having an upwardly presented face, said anvil and said upwardly presented face of the support-member being adapted for supporting the brake shoe with one of its edge-portions on the anvil and engaged against the abutment and with the brake lining in upwardly presented position and with the lateral edges of the brake lining free and unsupported except for its securement to the shoe and a bracket having two upwardly presented spaced shoulders, an anvil mounted on one of the shoulders and being provided with an upstanding abutment, the height of which is slightly less than the thickness of the brake shoe, a support-member mounted on the other shoulder and having an upwardly presented face, said anvil and said upwardly presented face of the support-member being adapted for supporting the brake shoe with one of its edge-portions on the anvil and engaged against the abutment and with the brake lining in upwardly presented position and with the lateral edges of the brake lining free, means for applying a measured force against and at right angles to that lateral edge of the brake lining which is on the opposite side of the brake shoe with respect to the anvil-engaged portion of the shoe whereby to produce relative movement between the shoe and the brake lining when the force is sufficient to overcome the retentive strength of the securement between the shoe and the lining.

2,667,782
APPARATUS FOR MEASURING VOLUMES OF SOLID MATERIALS
John E. Shea, Fairhaven, Va.
Application February 28, 1951, Serial No. 213,189
3 Claims. (Cl. 73—149)
(Granted under Title 35, U. S. Code (1952), sec. 266)

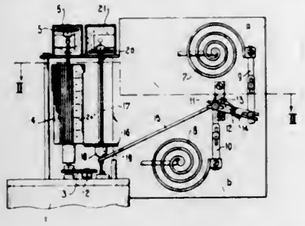


1. Apparatus for measuring volumes of samples of solid materials, which comprises a sample chamber for receiving the sample, an auxiliary chamber communicating with the sample chamber through a pressure-conducting conduit, closure means for the sample chamber, an expansible balloon member secured to the sample chamber and depending therein, means for exhausting air from the sample chamber for expanding the balloon member to receive a sample of material therein, means for increasing pressure in the sample chamber following exhaustion thereof, to a value above that of the ambient atmosphere for compressing the said balloon member about the sample, a connecting valve in the said conduit intermediate the sample chamber and the auxiliary chamber, and pressure-responsive means communicating with the sample chamber for indicating the increased pressure in the sample chamber and resulting reduced pressure responsively to equalization of pressure between the chambers, the said reduction in pressure corresponding to the volume of the sample of material in the balloon member.

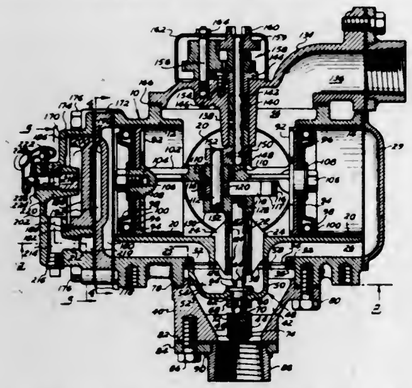
2,667,783
HEAT CONSUMPTION METER
Ary J. Mijnlieff, Zeist, and Barend A. van Rietschoten and Pieter Loos, Utrecht, Netherlands, assignors to N. V. Provinciaal en Gemeentelijk Utrechts Stroomleveringsbedrijf, Utrecht, Netherlands, a company of the Netherlands
Application April 25, 1951, Serial No. 222,788
Claims priority, application Netherlands April 28, 1950
1 Claim. (Cl. 73—193)

A heat consumption meter for measuring the quantity of heat given up by a flowing heating fluid comprising in combination a flow meter, a toothed cylinder driven by said flow meter and

the number of teeth of which varies in axial direction, a toothed wheel cooperating with said toothed cylinder and having a hub, a shaft on which said toothed wheel is slidably mounted, a counting mechanism driven by said shaft, a pivotal lever having a fixed fulcrum, a stud carried by said pivotal lever, a bearing block pivotally mounted on said stud, a forked part journalled in said bearing block perpendicularly to said stud and engaging the hub of said toothed wheel, a floating lever pivoted to said pivotal lever and two Bourdon tube-thermometers coupled to opposite ends of said floating lever.

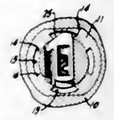


2,667,784
PISTON METER
George E. Batchelder, Pittsburgh, Pa., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 16, 1950, Serial No. 195,964
5 Claims. (Cl. 73—247)



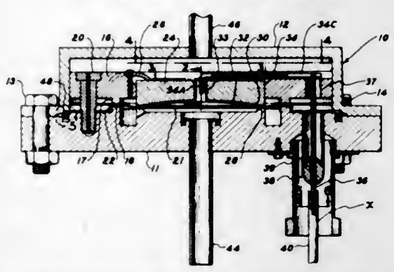
1. In a fluid meter having a cylinder block having inlet and outlet passages, a plurality of pairs of opposed meter cylinders in said block having meter pistons reciprocably received therein, and a meter piston actuated valve for connecting said cylinders sequentially to said inlet and outlet passages; a calibration device for said meter comprising; a calibration cylinder, a plate secured to said cylinder block and having recesses in its opposite faces forming the head respectively of said calibration cylinder and one of said meter cylinders, a free piston mounted for reciprocation in said calibration cylinder, the diameter of said piston being greater than its thickness, means forming passageways connecting opposite ends of said calibration cylinder respectively to said inlet and outlet passages when one of said pair of pistons is so connected, whereby said calibration piston will discharge a predetermined amount of fluid into said outlet passage along with the fluid discharged by said one of said meter pistons connected to said outlet passage.

2,667,785
TWO KEY CYLINDER LOCK
Willard J. Opocensky, Glendale, Calif., assignor to Librascope, Incorporated, Glendale, Calif., a corporation of California
Application May 5, 1952, Serial No. 286,065
2 Claims. (Cl. 70—337)



2. A cylinder lock comprising a cylindrical sleeve formed with a plurality of circumferentially spaced internal seats presenting transversely opposed abutment shoulders, a key plug rotatably mounted in the sleeve, a plurality of spring-pressed tumblers carried by the plug having ends normally projected into said seats, one of said ends being shaped to interlock with only one of said shoulders and another of said ends being shaped to interlock with only the opposite shoulder, whereby the plug is adapted to be freed for rotation in one direction by use of one key and in the opposite direction by the use of another key.

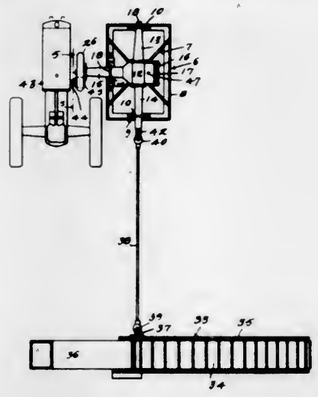
2,667,786
CAPACITOR PRESSURE GAUGE
Carl P. Spaulding, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California
Application February 11, 1950, Serial No. 143,620
17 Claims. (Cl. 73—398)



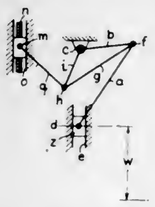
1. A gauge comprising two compartments separated by a conductive diaphragm which provides a fluid-tight seal between the two compartments, means for connecting the respective compartments to separate pressure systems so that the deflection of the diaphragm is determined by the difference in pressure between the separate pressure systems, a conductive member spaced from the diaphragm and presenting a surface to the deflectable portion of said diaphragm, said surface being concave with respect to the side of the diaphragm adjacent said surface, the diaphragm and conductive member forming a capacitor, and means coupled to the diaphragm and the conductive member for sensing changes in capacitance of said capacitor resulting from deflection of said diaphragm.

2,667,787
POWER TRANSMISSION UNIT FOR USE WITH TRACTOR POWER TAKE-OFFS
Henry N. Ward, Klemme, Iowa
Application March 16, 1951, Serial No. 215,943
7 Claims. (Cl. 74—15.8)

1. The combination with a self propelled vehicle having a power take-off shaft extending outwardly therefrom and a pulley mounted thereon outwardly with respect to an adjacent portion of the vehicle, of a power transmitting unit comprising a frame structure having a base adapted to rest upon the ground, bearing means supported by said frame structure in an elevated position relatively to the base, an input shaft journaled in said bearing means, a friction wheel fixed to one end of said input shaft and rotatably supported thereby in an elevated position and in substantially a vertical plane, said pulley being movable with the vehicle in one direction to position the pulley in frictional engagement with the friction wheel for revolving the friction wheel and input shaft, an output shaft journaled in said bearing means having one end adapted to be connected to a mechanism to be driven by the power transmitting unit, and means forming a driving connection between the opposite, adjacent ends of the input shaft and output shaft.

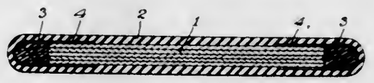


2,667,788
LONG-STROKE PRESS DRIVE MEANS
Otto May, Schwabisch Gmund, and Helmut Hecht, Goppingen, Germany
Application December 14, 1950, Serial No. 200,734
Claims priority, application Germany December 16, 1949
3 Claims. (Cl. 74—110)



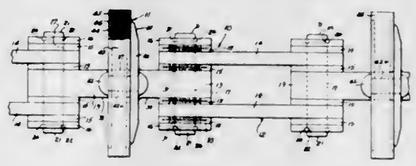
1. A toggle press comprising a frame, a toggle linkage consisting of a crank having a fulcrum pivot on the frame and having a knee-joint, a ram movable in a frame guide toward and away from the fulcrum pivot, a connecting rod between the ram and the knee-joint on the crank, a driving block moving in a guide the center line of which is approximately parallel to the direction of ram movement, a pivot, means constraining movement of the pivot substantially in a circle having its center approximately at said fulcrum, a rigid connection between the pivot and said knee-joint, and a draw link connecting said pivot and the driving block, said draw link in any position assuming approximately equal angles relative to the substantially parallel center lines of movement of the block and the ram, the center line of the driving block being sufficiently close to the center line of the ram that said crank during a complete driving movement of the block will be movable from a final position in which it is closely in line with the connecting rod to a retracted position which is not less than 90° from said final position, said block throughout a working stroke of the ram being movable in a direction adapted to decrease said equal angles.

2,667,789
CONVEYER BELT
Georg Ludwig, Hamburg-Harburg, and Hans Gandert, Hamburg-Marmsdorf, Germany
Application August 26, 1950, Serial No. 181,596
1 Claim. (Cl. 74—232)



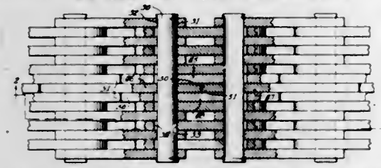
A conveyor belt comprising a main body of a plurality of layers of woven material, separate wear resisting edge members having a thickness equal to the total thickness of said plurality of layers positioned along the opposite longitudinal edges of said main body and arranged in the same plane with the latter, a single layer of woven textile strips embracing the exposed surfaces of said edge members and extending over and secured to the marginal portions of said main body, whereby said edge members are united with said main body, said edge members consisting each of a plurality of tightly twisted yarn strings extending lengthwise of the longitudinal edges of said main body and embedded in rubber, and a rubber covering extending over both faces of the main body and the textile strips securing said edge members to said main body.

2,667,790
SPROCKET CHAIN
Henry W. Hapman, Detroit, Mich., assignor of forty per cent to Hannah Jane Hapman, Detroit, Mich.
Application August 2, 1950, Serial No. 177,287
9 Claims. (Cl. 74—245)



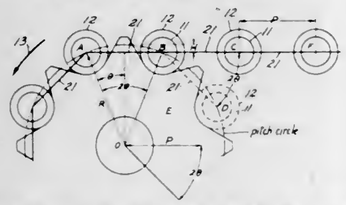
1. A power transmission chain comprising a multiplicity of spaced pivots, link members pivotally mounted on said pivots, retaining members mounted on said pivots outwardly of said link members and having recesses in the outwardly facing surfaces thereof, resilient elements yieldable axially of said pivots and disposed between said members and urging said members outwardly along said pivots, and fasteners secured to the outer portions of said pivots and housed at least partially within said recesses.

2,667,791
SILENT CHAIN
Norman C. Bremer, Ithaca, N. Y., assignor to Morse Chain Company, Ithaca, N. Y., a corporation of New York
Application December 23, 1950, Serial No. 202,545
12 Claims. (Cl. 74—245)



1. In a power transmission chain adapted to run on a toothed sprocket, the combination of successive articulated links, means cooperable with a portion of said link in a rocking-like motion for introducing a compensating action to provide positive progressive elongation of the pitch of the chain during the process of bending the chain in running on the sprocket whereby the polygonal action of the toothed sprocket is reduced, and means forming a part of said links and operable to prevent bending of the chain outwardly of its straight line position but permitting bending of the chain inwardly of its straight line position.

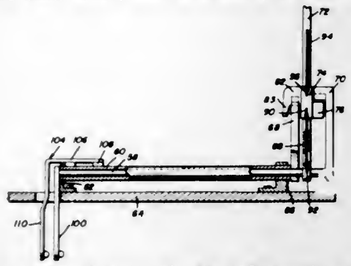
2,667,792
DRIVE CHAIN
Wilfrid H. Bendall, New York, N. Y.
Application November 29, 1947, Serial No. 788,949
16 Claims. (Cl. 74—245)



1. In a chain drive having a drive sprocket or wheel characterized by a plurality of teeth at its engagement pitch circle and a chain having a plurality of pivoted link members adapted to engage the teeth of said sprocket at said pitch circle and having a drive strand center line defining the direction of chain travel in relation thereto; the combination of a plurality of spring members engaging said link members and cooperating therewith, the spring tension and direction of application thereof being such as to hold the pivot center of each link and its following drive strand on a center line substantially tangent to said sprocket pitch circle during all phases of pivotal engagement of a link with a tooth of said sprocket.

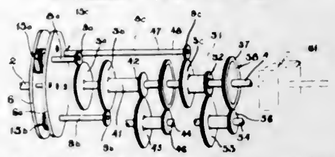
2,667,793
DUMP BOX CONTROL LEVER
Lawrence D. Webster, Livonia, N. Y.
Application February 19, 1951, Serial No. 211,733
2 Claims. (Cl. 74—471)

1. A control for a power lift dump box comprising inner and outer concentric shafts, first and second journals rotatably supporting the ends of said outer shaft, a control arm nonrotatably attached to each of said inner and outer shafts adjacent the ends thereof remote from said first journal, a control lever rotatably mounted on one of said shafts for movement in opposite directions respectively, means on said control lever for selectively locking said lever to either of said control arms in one direction only of movement of said lever and with both of said control arms in the other direction only of movement of said lever, and actuating arms attached



to the ends of said shafts adjacent said first journal and adapted to control a valve and a pump associated with the power lift of the dump box.

2,667,794
VARIABLE SPEED POWER TRANSMISSION MECHANISM
Henry McGill, Pearcedale, Victoria, Australia, assignor to James Albert Cavanagh, East Praham, Victoria, and Henry William Thomas Ireland, St. Kilda, Victoria, Australia
Application April 25, 1950, Serial No. 157,914
Claims priority, application Australia May 2, 1949
1 Claim. (Cl. 74—752)



In a variable speed power transmission mechanism of the type wherein a rotary driving member carries a plurality of centrifugal elements, each of which includes a series of masses movable in an eccentric path around the axis of a planet pinion to which each element is directly connected to retard rotation of that planet pinion as it travels around sun pinion means on a driven shaft, the improvement comprising separate sun pinions for each planet pinion, one sun pinion being directly connected to said shaft, trains of reduction gears having low and high speed characteristics respectively connecting the other sun pinions to the shaft, and overrunning clutches in each of said trains of reduction gears whereby relative movement between a planet pinion and its sun pinion is diminished or prevented by effective operation of its centrifugal element, the drive from the driving member to the driven shaft will be imparted through the related gearing arrangement at variable speed ratio or torque conversion automatically and commensurate with varying loads on the driven shaft and the common driven shaft may overrun the gear trains of the lower-speed characteristic when being effectively driven by a gear train of the higher speed characteristic.

2,667,795
COUNTERBORE ATTACHMENT
Bradford T. Bowen, Rumford, R. I., assignor of one-half to Robert F. Walker, Providence, R. I.
Application February 7, 1948, Serial No. 6,833
10 Claims. (Cl. 77—65)

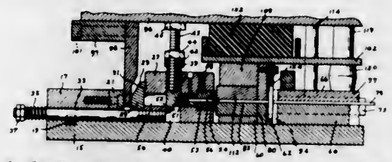
1. A counterboring attachment for drills comprising a tubular body, the bore of which is of a size to receive a drill therethrough, means to

secure the body to the drill, one end of the body being cylindrical and having its extremity formed to provide a cutter with a plurality of teeth formed by spaces extending inwardly from the end of the cutter throughout the lateral thickness of the wall of the body and terminating a



short axial distance from the end of the cutter with the surfaces of said teeth formed by the edges of said spaces shaped to direct the removed material inwardly toward its axis and within the tubular body and along the groove of the drill.

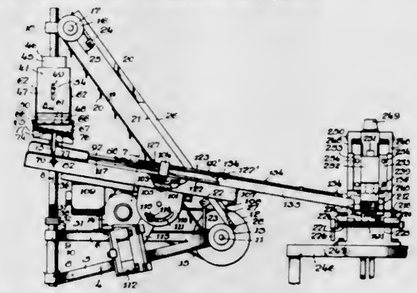
2,667,796
DOUBLE END ROD FORMING DEVICE
John T. Shields, Bedford, Ind.
Application June 19, 1950, Serial No. 169,036
9 Claims. (Cl. 78—17)



1. A device for simultaneously forming a head on each end of a rod comprising spaced die means to receive each end portion of the rod therein; heads reciprocably movable longitudinally of the rod against and away from said die means; pins longitudinally shiftable in said heads to abut the ends of said rods; and means initially positioning said pins to shift said rod longitudinally in either direction as may be required to form substantially identical length heads in said dies and hold the longitudinal length between headed portions to a precise length; said die means in each instance being divided into relatively upper and lower portions; an upper reciprocable head; a plate swung under said head in normal spaced relation thereto; elastic members yielding resisting movement of the plate toward the head; said upper die means portions being carried by said plate; a stationary rod receiving member between said die means; a rod clamp jaw shiftable toward said receiving member to hold said rod between said die means; and yielding means permitting said shifting of the rod.

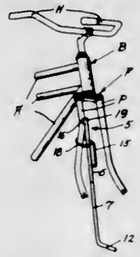
2,667,797
RING SETTING MACHINE
Edward F. Buenger, River Forest, Ill., Ralph R. Uhrmacher, Charlotte, N. C., and Eremeldo Cairelli, Chicago, and George J. Rundblad, Elmwood Park, Ill., assignors to Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts
Application January 30, 1948, Serial No. 5,318
24 Claims. (Cl. 78—48)

1. A ring setting machine comprising a punch press, a setting die positioned under said punch press, a prong plate carrier strip secured to said setting die, said carrier strip being adapted to hold a prong plate in a plurality of laterally spaced positions, a hopper for holding a supply of ring sections, a chute adjacent said hopper, an aligning tube leading from said chute to said punch press, and a vibrator operable to move ring sections from said hopper through said chute, on to said aligning tube, and along said aligning tube into predetermined position adjacent said punch press, said punch press being engageable with ring sections held in said predetermined position to set them in said prong plate.



18. In a ring setting machine, a setting die, an anvil projecting from said setting die, a groove in said anvil to receive one portion of a ring, and a stop member engageable with one end of a ring seated in said groove to help position said ring, said stop member being pivoted in said setting die.

2,667,798
BICYCLE FORK STRAIGHTENING TOOL
Allen G. Beasley, Spokane, Wash., assignor to Charley W. Beasley, Spokane, Wash.
Application July 28, 1951, Serial No. 239,140
2 Claims. (Cl. 81—15)

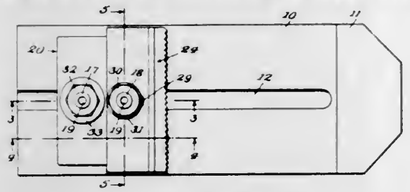


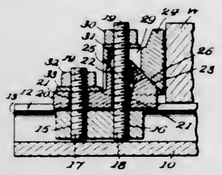
1. A tool comprising a shank, a handle extending at right angles to and on the lower end of said shank, a fulcrum ring loosely encircling said shank, a fixed head on the upper end of said shank, said head extending at right angles to said shank and in a direction opposite to that of the handle, and a vertically disposed groove having an arcuate cross section in the face of said head and extending parallel to said shank, said groove, shank and handle being aligned in a vertical plane.

2,667,799
MACHINE VISE HAVING BASE-CLAMPING SCREW AND NUT ASSEMBLY FOR SECTIONAL MOVABLE JAWS
Stanley J. Rzepela, Philadelphia, Pa.
Application October 9, 1952, Serial No. 313,936
7 Claims. (Cl. 81—17)

4. A vise comprising a base having a fixed jaw, said base having a groove in its upper side

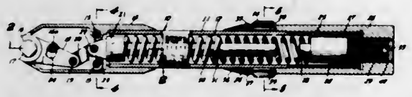
and extending toward said fixed jaw, said groove having overhanging side walls, a slide block in said groove, a set screw threaded through said slide block to abut the bottom of said groove when tightened, thereby forcing said guide block against said overhanging side walls, said set screw projecting above said base, a lower movable jaw section resting slidably upon said base and having an opening through which said set screw extends with clearance, the upper side of





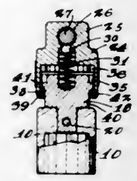
said lower section being provided with an inclined cam, a nut threaded on the upper end of said set screw for coaction therewith in clamping said lower section against said base, an upper movable jaw section having a cam at its lower side resting on said cam of said lower section to cause movement of said upper section toward said fixed jaw when said upper section is forced toward said base, and manually operable means for forcing said upper section toward said base.

2,667,800
ADJUSTABLE BREAK-THROUGH TORQUE WRENCH
Robert E. Garwood, Los Angeles, Calif., assignor to George C. Jenkins, doing business as Skyway Precision Tool Company, Los Angeles, Calif.
Application February 12, 1951, Serial No. 210,557
2 Claims. (Cl. 81—52.4)



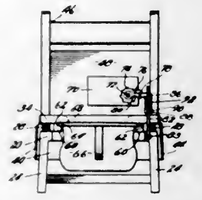
1. In a torque wrench of the class described, a hollow shell open at its ends and at one of its sides, a cover plate closing the open side, several bolts passing through the shell removably securing said cover plate in place, a transverse tool spindle mounted in one end of the shell, an arm extending inwardly of the shell from said spindle, a tubular body having an end secured in the other end of the shell, a reciprocating stem within said body, a cylindrical head carried at one end of said stem and having a reduced portion projecting into the shell, a pair of laterally disposed links pivotally connected with one of said bolts at one of their ends and at opposite sides of said reduced portion, a second pair of links pivotally connected at one of their ends at opposite sides of said reduced portion commonly with the first pair of links and at their other ends with and at opposite sides of the free end of said arm, said arm and said links constituting a form of toggle, a sleeve, constituting a handle, telescoped on the other end of said body and in threaded engagement therewith, a compression spring within said body and encircling said stem with one end bearing against said head, an adjustable member, constituting a seat for the opposite end of said spring, within the other end of said body and having threaded engagement with the outer end of said sleeve, so that by reversely turning the latter relatively to the body, the compression of the spring will be correspondingly varied, and cooperative means mounted on said body and said sleeve for locking the latter against relative turning movements with respect to the body.

2,667,801
WRENCH CONSTRUCTION
William C. Eaves, Elyria, Ohio
Application March 21, 1950, Serial No. 150,887
6 Claims. (Cl. 81—58.3)



5. A wrench construction, in combination, a pair of elements; each of said elements having a plurality of teeth forming a clutch configuration adapted for interengagement; a coil spring interposed between said elements normally urging the clutch configurations of said elements out of engagement; means for limiting the extent of movement of one element with respect to the other; one of said elements being formed with means to support a wrench socket; the other of said elements being formed with a projection having an opening to receive a manipulating bar; a member in engagement with the coil spring and partially extending into the opening in the projection adapted to receive the manipulating bar for frictionally retaining the bar in the opening in said projection.

2,667,802
NURSERY SEAT WITH MUSIC BOX
Mechell F. Harris, Kansas City, Mo.
Application November 22, 1948, Serial No. 61,509
3 Claims. (Cl. 84—95)



1. A nursery seat comprising a stationary base section, a floating seat member mounted on springs carried by said stationary member and movable relative thereto, a music box carried by said floating seat section and having a winding stem, and a resiliently extensible member interconnecting said winding stem with said stationary section, whereby as said floating seat member is moved relative to said stationary base said winding stem will be operated to energize said music box.

2,667,803
MOUTHPIECE FOR MUSICAL INSTRUMENTS
Paul L. Jones, Green Township, Summit County, Ohio
Application April 29, 1950, Serial No. 158,942
5 Claims. (Cl. 84—398)



1. A mouthpiece for musical instruments comprising a wall member defining an air chamber, having a gradually changing circular cross-section throughout, and open at both ends, and a thin wall element at the outer opening, said wall element having outer and inner surfaces extending generally radially inwardly from the margin of said outer opening, whereby to partially close said opening, said wall element having its radially inner terminus closely adjacent said margin in one portion, and receding radially inwardly from said margin on either side of said one portion.

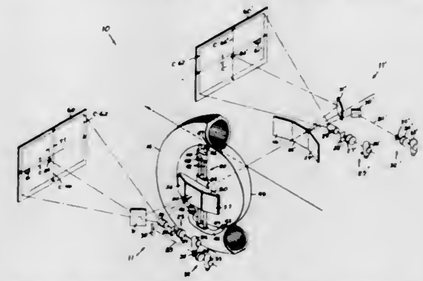
2,667,804
HIGH-TEMPERATURE PACKING
John R. Boyer, Avondale, Pa., and Richard M. Luckring, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application June 21, 1949, Serial No. 100,452
2 Claims. (Cl. 87—1)



1. A high temperature resistant fibrous joint packing and sealing composition, stable at temperatures of 800° C. to 1000° C., formed into strands from a number of substantially pure silica fibers plaited into a succession of superimposed layers one over another to form a composite braid, pre-shrunk at relatively high temperatures, and having a particulate temperature resistant sealing medium incorporated in the interstices of the composite braid.

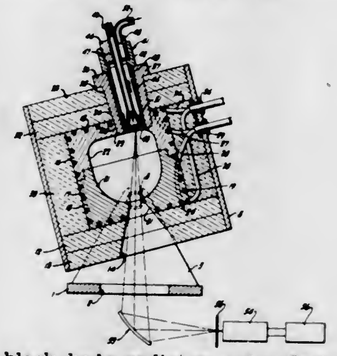
2,667,805
MIRROR AND LIGHT BEAM APPARATUS FOR CHECKING WHEEL ALIGNMENT CHARACTERISTICS WITH CORRECTION FOR RUN-OUT
James P. Carr, Lansing, Mich., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application November 30, 1949, Serial No. 130,188
5 Claims. (Cl. 88—14)

1. An apparatus for measuring camber and toe alignment characteristics of dirigible wheels of a vehicle which comprises wheel mirrors, one of which is fastened on each of said wheels, each of said mirrors being held by its mounting with its plane in a fixed relation with the rotational axis of said wheel and with said mirror facing laterally from said wheel; a screen for each of said wheels; means providing a camber and toe chart on each of said screens, each such chart having horizontal and vertical sets of calibrations for respectively measuring camber of the wheel with which said chart is associated, and toe of said pair of wheels; means optionally operable to render either of said wheels rotatable about its axis and operable at will to hold either of said wheels against such rotation in any selected position to which said wheel has been thus rotated; projector means for projecting a beam of light against each of said mirrors so that with said wheels turned substantially straight ahead, said beams, after reflection from said wheel mirrors, fall on said screens; means for providing a run-out chart on each of said screens in a fixed relation with the camber and toe chart thereof, each of said run-out charts having calibrated intersecting vertical and horizontal reference lines, the calibrations on said reference lines reading outwardly from a zero center point thereof at the intersection of said reference lines, and being spaced apart at such close intervals as



to readily measure the radius of a wobble circle centered at said intersection; means for providing a reference chart on each of said screens, each such reference chart having a reference line which is spaced from and parallel to one of the sets of calibrations on said camber and toe chart, and having calibrations of the same order as the aforesaid calibrations on said wheel run-out chart, said reference chart calibrations beginning at a zero line crossing the reference line of said reference chart; and a marker, applied when in use, to one of said screens opposite one of the calibrations of said reference chart thereof to indicate on said reference chart the radius of a run-out wobble circle determined by superimposing said circle on said run-out chart.

2,667,806
BLACK BODY RADIATOR AND REFLECTOR
Joseph T. Gier, Oakland, and Robert V. Dunkle, Lafayette, Calif., assignors to The Regents of The University of California, Berkeley, Calif.
Application June 1, 1951, Serial No. 229,472
3 Claims. (Cl. 88—14)



1. A black body radiator and reflector comprising: a chamber having one wall thereof

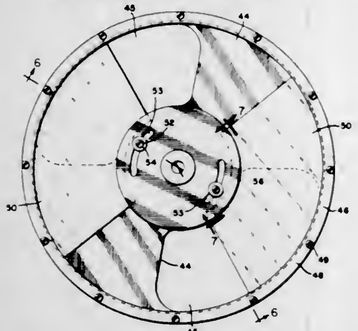
formed with a specimen receiving recess and an opposite wall thereof formed with a radiation emission window; means for heating said chamber thereby to generate Planckian radiation for reflection from a specimen disposed in said recess through said window; and a cooling system disposed in said recess for cooling a specimen mounted in said recess.

2,667,807

HEAT FILTER FOR INTERMITTENT LIGHT BEAM PROJECTORS

Charles A. Hahn, Chicago, Ill., assignor to J. E. McAuley Mfg. Co., Chicago, Ill., a corporation of Delaware

Application March 10, 1948, Serial No. 14,068
5 Claims. (Cl. 88—17)



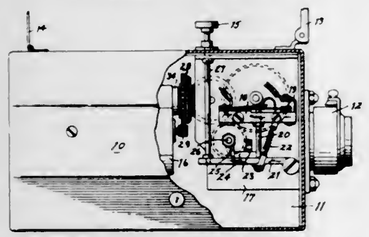
1. In apparatus for projecting a beam of light intermittently including a shutter movable through the path of the light beam and having a light gap that passes through such path to provide intermittent light-passing periods; a heat filtering body of material having properties of transmitting and blocking passage of high percentages respectively of visible and heat frequencies of such light beam mounted on said support, and means for adjusting the position of said body to selectively vary an area of the gap covered thereby.

2,667,808

DRIVE FOR MOVING PICTURE CAMERAS

Arthur H. Hart, San Francisco, Calif.

Application January 8, 1951, Serial No. 204,967
2 Claims. (Cl. 88—17)



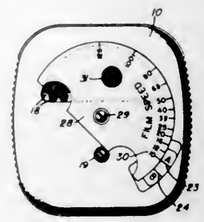
1. In an interlocking control for electric motor driven motion picture camera, the combination of a film advancing and shutter driving mechanism, an electric motor for driving said film advancing and shutter driving mechanism, a stop motion mechanism for preventing the operation of said film advancing mechanism only when said shutter is in its closed position, a slipping clutch in the driving connection between said motor and said film advancing mechanism, and a manually depressible means for rendering said stop motion means inoperative, and means associated with said stop motion mechanism adapted and arranged to effect a closing of said motor controlling switch in point of time slightly prior to a release of said film advancing mechanism by said stop motion mechanism and effect an opening of said motor controlling switch when said stop motion mechanism is operative, whereby said shutter will be stopped in its camera closing position and said film advancing and shutter driving mechanism will be operative only when in starting and stopping said motor has attained or retains its normal operating speed.

2,667,809

EXPOSURE METER

Alexander T. Williams, Westfield, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey

Application December 20, 1951, Serial No. 262,503
4 Claims. (Cl. 88—23)



1. A direct-reading exposure meter comprising a housing having therein a window in the front and an opening in the back, an electrical movement disposed within the housing and including a movable coil carrying a pointer that is visible through the said window, a scale plate mounted in fixed position within the housing and carrying one set of exposure factors that are visible through the said window, a photocell mounted in said housing and connected to the said movable coil said photocell being positioned to receive light passing through the said opening, an opaque, semi-circular plate pivotally-secured to the housing and selectively rotatable to overlie more or less of the said opening, a second set of exposure factors carried by the semi-circular plate, and markings carried by the housing and cooperating with the exposure factors carried by the semi-circular plate, said markings corresponding to a third set of exposure factors.

2,667,810

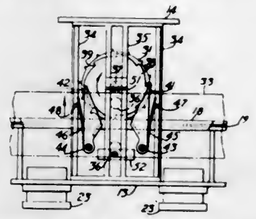
DEVICE FOR ADVANCING FILM STRIPS

Joseph F. Jaros, Chicago, Ill., assignor of one-half to Harry N. Severseu, Ardmore, Pa.

Application February 20, 1951, Serial No. 211,955
24 Claims. (Cl. 88—31)

1. In a device for advancing a film strip, means to engage and advance the film strip, weighted means mounted in said device for free back and forth movement and actuatable in said directions respectively by back and forth tilting motion of the device, drive mechanism for said film advancing means, pawls carried by said weighted means operable during each back and forth movement thereof to effect actuation of said drive mechanism one step for each unidirectional movement of the weighted means, and

stop means operable to predeterminedly limit movement of the drive mechanism in each direc-



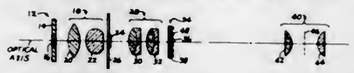
tion and thereby cause the advancing means to advance the film strip in successive equal steps.

2,667,811

VARIABLE LIGHT-MODIFYING DEVICE

Harold Osterberg, Springdale, Conn., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application October 29, 1949, Serial No. 124,404
5 Claims. (Cl. 88—39)



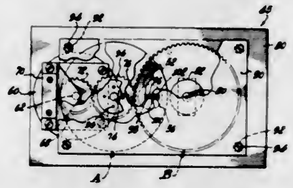
1. An optical system for obtaining uninterrupted progressively variable contrast effects in an image of an object of relatively low contrast and of the type producing deviated and undeviated light rays when positioned at a predetermined object plane in said system, said system comprising objective lens means focused substantially at said object plane, a condenser, means providing a light source of predetermined dimensions and contour adjacent said condenser and substantially at an entrance pupil of said system, said condenser and objective lens means being optically aligned with said light source and coacting to produce an image of said light source at a predetermined first image plane, plate-like light-modifying means positioned substantially at said first image plane and extending generally transversely of the optical axis of said system, said light-modifying means being pivotally mounted for movement about an axis disposed in a plane substantially at right angles to said optical axis and comprising a plurality of transparent portions in fixed relation to each other, one of said portions differing by a predetermined amount from another of said portions in at least one of the absorption and retardation characteristics thereof, said light-modifying means having said portions selectively intercepting said deviated and undeviated light rays emanating from the object when positioned at said object plane, said objective lens means imaging said deviated light rays transmitted by said light-modifying means at a predetermined image plane conjugate to said object plane, said one portion being substantially geometrically similar in shape to the contour of said light source and of such a size and so located as to substantially coincide with the image of said light source produced at said first image plane, and means for gradually tilting said light modifying means relative to said optical axis to progressively alter the effective thickness of said portions relative to the light rays passing therethrough, whereby at least one of the phase and amplitude differences existing between the deviated and undeviated light rays passing therethrough may be altered to vary the contrast effect in an image of said object at said conjugate image plane.

2,667,812

TIMING LIGHT CONTROL FOR OSCILLOGRAPHS AND THE LIKE

William W. Miller, Los Angeles, Calif., assignor, by mesne assignments, to William Miller Instruments, Inc., a corporation of California

Application June 9, 1950, Serial No. 167,218
4 Claims. (Cl. 88—61)



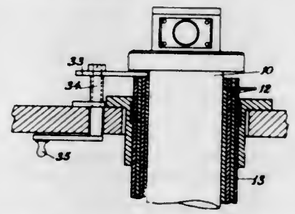
1. Means for producing a periodic series of light flashes in a light beam, comprising in combination a plurality of rotatable shutters arranged in the path of the light beam, each shutter being provided with a plurality of apertures uniformly spaced circumferentially of the shutter and adapted to transmit light in the beam intermittently as the shutter rotates, the respective shutters having different numbers of apertures, which numbers are integrally indivisible one by the other and the apertures of each said shutter including at least two different aperture sizes, and means for rotating the said shutters at speeds inversely proportional to their respective numbers of said apertures in such mutual timed relation that whenever an aperture of one shutter passes through light transmitting position an aperture of each other shutter does so also, whereby is produced an ordered sequence of light flashes of a plurality of different values of effective light flux, the period of repetition of the ordered sequence being a different integral multiple of the period of revolution of each shutter.

2,667,813

EXTENSIBLE OPTICAL SIGHTING OR OBSERVATION INSTRUMENT

Charles D. MacGill, Glasgow, Scotland, assignor to Barr & Stroud Limited, Glasgow, Scotland

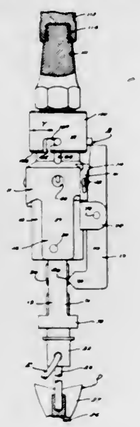
Application December 22, 1948, Serial No. 66,612
4 Claims. (Cl. 88—72)



1. An optical sighting instrument comprising an inner, an outer, and at least one intermediate tube mounted together for telescoping movement, gland means providing a substantially gas-tight seal between each pair of telescoping tubes, first and second optical light transmitting means of the instrument optical system adapted to transmit light one to the other in the form of a parallel beam and mounted within the inner and the outer tube respectively each to form a gas-tight seal with the surrounding tube wall, conduit means providing inter-communication between the interior of the outer tube and the ex-

terior thereof in the region between said first and second optical means to allow introduction into and withdrawal from said region of compressed gas to vary the distance between said first and second optical means, and hence the optical length of the instrument, without alteration in focus of the instrument optical system, and adjustable extension control means adapted selectively to leave free the inner tube and any selected number of the other telescoping intermediate tubes, but to lock stationary the remainder of the tubes, whereby on supply of compressed gas through said conduit means to said region, the instrument extends positively to the selected length.

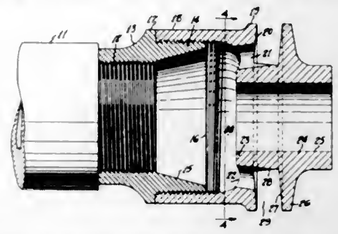
2,667,814
EXPLOSIVE-ACTUATED HARPOON
John O. Blackmon, Torrance, Calif.
Application April 5, 1948, Serial No. 18,868
11 Claims. (Cl. 89—1)



1. A power fish spear of the character described including, a charge carrying barrel, means operable to ignite the charge in the barrel, a missile having a butt portion engageable in the muzzle end of the barrel, a guide carried by the barrel in a predetermined position relative to the muzzle end of the barrel and slidably supporting the missile with the butt in line with the barrel, and a control adapted to actuate the said igniting means and responsive to movement of the butt of the missile into the muzzle of the barrel and including a control pin projecting from said igniting means and an elongate pivoted lever carried by the barrel having an arm movable into and out of holding engagement with the said pin and having an arm with a part engaging the butt of the missile and operated by a control surface on the butt.

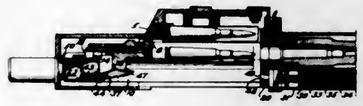
2,667,815
COMPENSATOR FOR RIFLES
Vernon L. Strong, Wolf Creek, Oreg.
Application March 4, 1950, Serial No. 147,725
2 Claims. (Cl. 89—14)

2. A compensator for rifles comprising a sleeve having a compensator barrel at one end thereof and an internally threaded chamber at the other end thereof, said barrel portion having a groove formed around same, the sides of which are parallel and sloping forwardly, the rearmost side of said groove having a plurality of inwardly sloping ports communicating with the interior of said sleeve, said ports being joined by a concave inner side and a bushing forming a plug for said sleeve,



said bushing having an outwardly flared forward end.

2,667,816
OPERATING SLIDE AND BOLT FOR FIREARMS
Clarence E. Simpson, Wilbraham, Mass., assignor to the United States of America as represented by the Secretary of War
Original application October 29, 1948, Serial No. 57,283. Divided and this application March 16, 1950, Serial No. 150,065
1 Claim. (Cl. 89—149)
(Granted under Title 35, U. S. Code (1952), sec. 266)

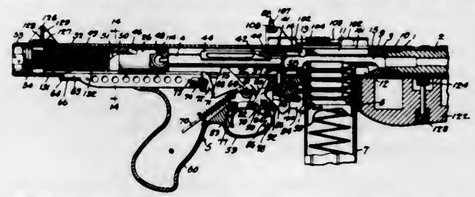


In a firearm having a receiver, a bolt slidably mounted in the receiver for reciprocating movement between a battery position and a recoiled position, a reciprocable operating slide slidably mounted in said receiver beneath said bolt, vertical lug means adjacent the rear end of said operating slide, a firing pin slidably carried in said bolt and having a depending tang portion at the rear end thereof, said bolt having an opening extending upwardly from the bottom thereof arranged to receive said lug means in engagement with said firing pin tang portion, said opening in said bolt being of greater length than said lug means whereby said operating slide is free to reciprocate relative to said bolt, a shoulder in the bottom of said bolt disposed forwardly of said opening therein, latch means pivotally secured to said operating slide, resilient means for biasing said latch into engagement with said shoulder at the conclusion of the rearward movement of said slide relative to said bolt whereby said bolt and said slide reciprocate together, and means for disengaging said latch from said bolt when the latter has reached battery position whereupon said slide is free to move forwardly and actuate said firing pin.

2,667,817
ROTATABLE BOLT FOR SUBMACHINE GUNS
Harry A. Asby, Jr., Grosse Pointe, Mich.
Application October 24, 1947, Serial No. 781,860
1 Claim. (Cl. 89—172)
(Granted under Title 35, U. S. Code (1952), sec. 266)

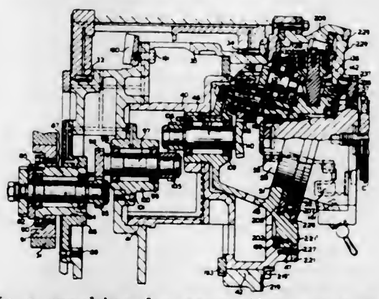
In an automatic firearm, a fixed outer sleeve having a longitudinal slot terminating at its forward end in an enlarged cam portion, a barrel slidably mounted in said sleeve for limited recoil movement, a receiver fixedly secured to said barrel for movement therewith in said sleeve, said

receiver having an axial bore therethrough, a bolt reciprocably mounted in said axial bore, said receiver including a rearwardly-disposed, uninterrupted, circumferential portion having a first cross sectional area, a further portion having a reduced cross sectional area immediately adjacent the forward end of said uninterrupted circumferential portion and forming a locking stop shoulder, and a transitional, helical locking surface between said reduced cross sectional area and said first-mentioned cross sectional area, a locking lug projecting from the side of said bolt in cooperative relationship with said reduced bore area and said helical locking surface to lock said



bolt in battery position, an operating handle secured to said bolt rearwardly of said locking lug and said uninterrupted circumferential portion and extending through said longitudinal slot in said sleeve, a cam surface on said operating handle cooperating with said enlarged cam portion in said slot of said sleeve during recoil of said receiver to rotate said bolt in one direction for disengaging said locking lug from said helical locking surface in said receiver, and single cam means for rotating said bolt in the opposite direction at the conclusion of counterrecoil movement for completely re-engaging said locking lug with said helical cam surface to lock said bolt in battery position.

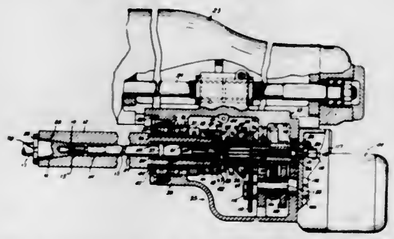
2,667,818
MACHINE AND METHOD FOR PRODUCING GEARS
Arthur L. Stewart, Brighton, and Leonard O. Carlsen, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a corporation of New York
Application October 15, 1947, Serial No. 779,890
24 Claims. (Cl. 90—5)



1. In a machine for generating gears, a tool support, a work support, a rotary work spindle journaled in the work support, a movable carrier upon which one of said supports is mounted, a rotary cam, means operable on rotation of the cam to effect movement of the carrier, and a train of gearing, including change gears, for connecting said means with the work spindle to rotate the work spindle in time with the movement of the carrier.

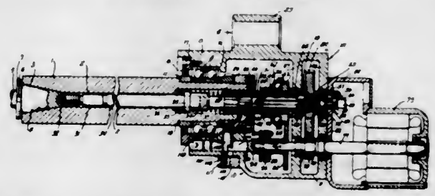
18. The method of producing a longitudinally curved tooth tapered gear which comprises rotating an annular cutting tool in engagement with the work while effecting a relative rolling movement between the tool and work at a varying rate to take generating cuts of equal width on a tooth profile of the work along the whole length of the tooth.

2,667,819
POWER LOCK FOR TOOLS AND THE LIKE
Charles B. De Vlieg, Farmington, Mich.
Application September 10, 1949, Serial No. 115,120
11 Claims. (Cl. 90—11)



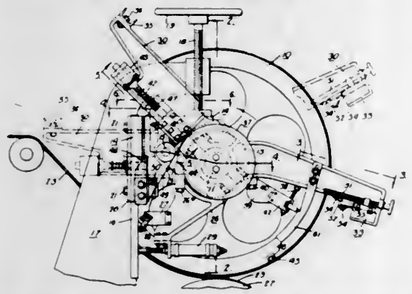
1. An automatic tool lock comprising in combination with a tool having a tapered shank and a spindle having a tapered socket to receive the tool shank and a first electric motor for driving said spindle, a draw bar on the spindle having means operable by rotation of the draw bar to connect with the tool shank and seat it in the spindle socket, a second electric motor, and mechanism operated by said second motor for rotating the draw bar to effect said tool seating including a normally disengaged clutch and clutch actuating means operative after a predetermined time delay following energization of said second motor to permit said second motor to reach a predetermined speed before engaging said normally disengaged clutch.

2,667,820
POWER TOOL LOCK
Charles B. De Vlieg, Farmington, Mich.
Application December 26, 1951, Serial No. 263,281
8 Claims. (Cl. 90—11)



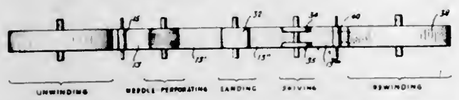
2. In a tool locking mechanism, the combination of a spindle having a socket for receiving the tool, a draw bar operative upon rotation relative to the spindle to draw the tool into the spindle socket to be seated therein, an electric motor having an output shaft coupled by a driving connection to the draw bar to effect said rotation thereof in response to rotation of the motor shaft, a gear carried on the spindle to move integral therewith, a reciprocable spindle lock plunger, and means forming a driving connection from the motor shaft to the spindle lock plunger operative in response to the rotation of the motor shaft to move the spindle lock plunger into engagement with the gear and operative to maintain the spindle lock plunger in engagement with the gear during rotation of the motor shaft to lock the spindle against rotation.

2,667,821
AUTOMATIC CUTOFF FOR PAPERBOARD MACHINES
Theodore A. McArn, Downingtown, Pa., assignor to Downingtown Manufacturing Company, Downingtown, Pa., a corporation of Pennsylvania
Application February 18, 1950, Serial No. 144,977
4 Claims. (Cl. 92—67)



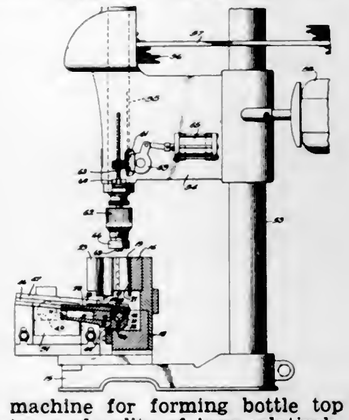
1. In an automatic cut-off for the accumulator roll of a wet board machine, a shaft rotatably mounted to support the accumulator roll, a pair of arms mounted intermediate their ends adjacent opposite ends of the roll for pivotal movement about the axis of said roll, cam means secured to the shaft and rotatable therewith, a plunger secured to each of said arms and actuable simultaneously into engagement with said cam means to cause rotation of the arms with the roll, electric means operable in response to a predetermined thickness of the board on the roll to actuate the plunger into engagement with said cam means, a knife blade carried by the arms mounted to traverse the face of the roll in either direction and sever the board thereon during such traverse, blade actuating means operable to actuate the blade alternately in opposite directions across the face of the roll, control mechanism comprising a normally open switch and means to close said switch only during rotation of the arms with the roll to actuate said blade actuating means, and second switch means mounted adjacent the knife blade and actuable by the knife blade to control the direction of traverse of the knife blade.

2,667,822
WALLBOARD TAPE
Paul Christman, Belmont, Calif., assignor to Bemiss-Jason Company, San Francisco, Calif., a partnership composed of R. P. Bemiss and W. E. Jason
Application September 6, 1951, Serial No. 245,389
2 Claims. (Cl. 93—1)



1. A paper tape for wall board joints, comprising a substantially parallel-edged strip of paper having a front surface and a back surface, the front surface having a smooth raised center portion along which the fibers lie flat with respect to the tape surface, and tapered edge portions to either side of the center portion along which the surface is rougher than at the center portion so that, within the edge portion, surface fibers, at least in part, stand up with respect to the tape surface, the thickness of the tape decreasing towards the edges from the raised center portion, the back surface being flat from edge to edge and having a rough finish across its entire width so that surface fibers, at least in part, stand up with respect to the back surface, the tape having pin prick perforations therethrough, each perforation being characterized by a depression around the perforation, said depression extending from the front surface, the direction of the fibers immediately surrounding each perforation having a greater normal component with respect to the tape surface than fibers remote from the perforation, the fibers surrounding each perforation terminating in a plane substantially parallel to the back surface of the tape.

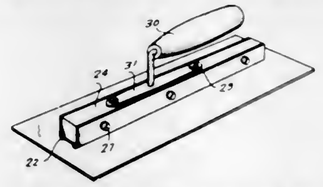
2,667,823
MACHINE FOR FORMING BOTTLE TOP COVERS
Harley O. Potter, Peoria, and Lester R. Carrigan, Chillicothe, Ill., assignors to General Metals Company, Chillicothe, Ill., a corporation of Illinois
Application January 15, 1949, Serial No. 71,146
7 Claims. (Cl. 93—79)



5. A machine for forming bottle top covers comprising a plurality of jaws relatively pivotal about vertical axes, a mandrel swingable about a horizontal axis from a generally horizontal feeding position to a vertical position in the jaws, a clamp carried by the mandrel to hold a sheet thereon, means to open the clamp when the mandrel is in its feeding position, a horizontal guide lying adjacent the mandrel when the mandrel is in its feeding position to guide a sheet into the clamp, means on the guide to apply adhesive to one edge of a sheet passing thereover, means to swing the mandrel into the jaws, means to close the jaws successively about the mandrel with the jaw adjacent said one edge of the sheet closing last, the upper edge of the sheet projecting above the top of the mandrel and jaws, a spinner rotatable about a vertical axis coaxial with the mandrel and jaws and formed in its lower surface with an annular groove of substantially the same external diameter as the top of the mandrel, and means to move the spinner axially toward the mandrel after the jaws have closed.

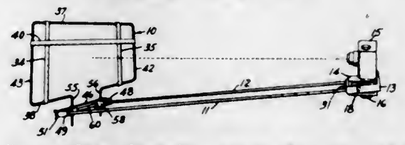
2,667,824
BLADE ATTACHING MEANS
Harold E. McCrery, Dayton, Ohio, assignor, by mesne assignments, to Master Vibrator Company, Dayton, Ohio, a corporation of Ohio
Application March 19, 1947, Serial No. 735,627
5 Claims. (Cl. 94—45)

4. An implement for troweling cementitious surfaces of the type wherein a troweling blade is attached to a carrier, including a longitudinally extended channel member having curved corners and secured to the blade, elevated portions in the bottom of said channel, said portions being in spaced relation to the blade and inwardly spaced



relative to the sides of the channel, said carrier having a flat lower face seated within the channel upon the elevated portion thereof and in contacting relation with the sides of said channel, and means detachably interconnecting the carrier and the channel.

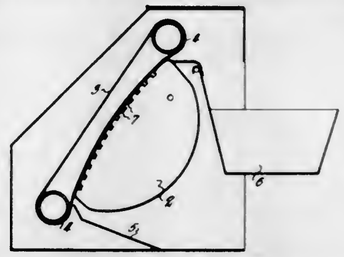
2,667,825
FOCUSING GUIDE
Erford G. Nicholas, Pasadena, Calif.
Application February 27, 1950, Serial No. 146,449
2 Claims. (Cl. 95—11)



1. In a close focusing guide for use with a camera, the combination comprising a pair of parallel runners lying in a single plane, a frame hinge mounted on the front of the runners to swing transverse to the axis of the runners, a focal frame supported by said hinge, means for locking the frame in erect position rearwardly inclined with respect to the plane of said runners, first and second cross members slidably mounted on the frame in parallel alignment, a third cross member slidably mounted on the frame transversely of the first and second cross members, said members and frame adjustably defining the boundaries of the area to be photographed, a carriage slidably mounted on the runners and having a pair of parallel lips with an opening therebetween extending perpendicularly with respect to the runners, a pair of brackets respectively engaging the opposite sides of said lips and having surfaces which are inclined with respect to the plane of the parallel runners so that the surfaces are disposed perpendicularly with respect to the plane of the focal frame in locked position, the brackets having aligned slots therein which extend parallel to the runners, and a camera mounting screw extending through said slots.

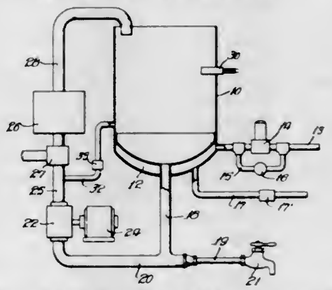
2,667,826
DEVELOPING CHAMBER FOR DEVELOPING FUME SENSITIVE PRINTING PAPERS
Robert Frederick Martlin, Hamilton, Ontario, Canada, assignor to Martlin & Lawrie Limited, Hamilton, Ontario, Canada, a corporation of Ontario
Application March 26, 1952, Serial No. 278,573
4 Claims. (Cl. 95—89)

1. In a developing machine the combination of: a developing chamber; a plurality of stationary parallel spaced-apart rib members defining a louvered face for said chamber through which gas may escape therefrom; a belt moveable over said louvered face; a narrow belt engaging crown portion on each of said rib members; and



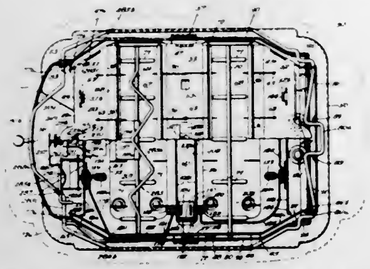
an inclined face on each of said rib members extending from the crown portion thereof to define in conjunction with said belt a gas containing pocket.

2,667,827
BEVERAGE BREWING APPARATUS
Herbert W. Peters, Milwaukee, Wis., assignor to Cory Corporation, Chicago, Ill., a corporation of Delaware
Application February 16, 1950, Serial No. 144,433
10 Claims. (Cl. 99—282)



1. A beverage brewing system comprising a vessel adapted to hold a quantity of water, said vessel having a steam jacket, a steam supply pipe connected to said jacket and including a first normally closed electrically operated valve, a cartridge located exteriorly of the vessel and adapted to contain a quantity of comminuted beverage-making material such as ground coffee bean, said cartridge having an inlet and an outlet, a first conduit interconnecting said vessel with the cartridge inlet, a second conduit interconnecting the vessel with the cartridge outlet, a pump included in said first conduit, a second normally closed valve included in said first conduit and provided with an electromagnet winding for electrical operation, a motor for driving the pump, a normally open thermally operated switch responsive to the temperature of the water in the vessel and adapted to close when the water temperature has risen to a predetermined value, an automatic timer including a normally open starting contact, an energizing circuit for said first valve including said starting contact, a driving motor for the timer, and a second energizing circuit wherein said starting contact and said thermally operated switch are in series with each other and in series with the timer motor, pump motor and electromagnet winding of the second valve, said timer being operative to open its said starting contact upon expiration of a fixed period following closure of the thermally operated switch.

2,667,828
AUTOMATIC TOASTER
Ludvik J. Koci, Riverside, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application January 30, 1948, Serial No. 5,247
24 Claims. (Cl. 99—329)

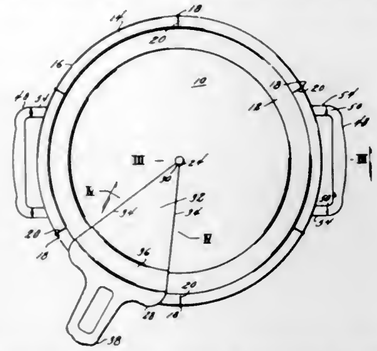


13. The combination in a cooking device of spaced heating elements for performing a cooking operation on an article disposed therebetween, a movable carriage for moving an article toward and away from a position between said heating elements, a thermomotive device including a plurality of turns of an electrical conductor capable of expanding and contracting with heating and cooling connected in circuit with said heating elements, a control switch for controlling simultaneously the supply of electrical energy to said heating elements and said electrical conductor of said thermomotive device, and means for converting the contraction of said conductor with cooling to a force sufficient to move said carriage away from a position between said heating elements, said carriage being free to move to its position between said heating elements upon expansion of said wire, whereby movement of said carriage occurs automatically in response to operation of said switch.

14. The combination in a cooking device of spaced heating elements for performing a cooking operation on an article disposed therebetween, a movable carriage for moving said article toward and away from a position between said heating elements, an electric conductor, means responsive to the heating and cooling of said conductor in response to whether or not current flows therethrough for moving said carriage toward and away from said heating elements, an electric circuit including said conductor and said heating elements, a control switch for controlling the supply of electrical energy to said electric circuit, means responsive to the placing of said article on said carriage for closing said switch, and means responsive to a predetermined condition of said article during heating thereof for opening said switch.

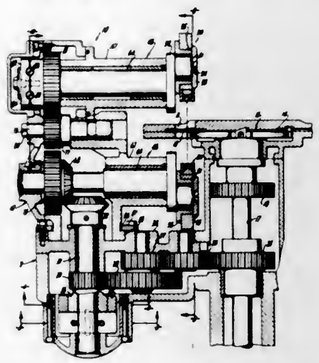
2,667,829
COMBINATION BAKING AND SERVING UTENSIL FOR PASTRIES
Clara E. McNutt, Toledo, Ohio
Application December 30, 1950, Serial No. 203,649
1 Claim. (Cl. 99—429)

In combination, a circular pie pan having a bottom, an axial boss rising from said bottom, a side wall upwardly and outwardly extending from the bottom, said side wall terminating in an outwardly extending peripherally circular flange, said flange being provided with a series of regularly spaced protuberances outwardly projecting therefrom to form an index to guide the cutting of a pie within the pan; a pie cut remover normally nested in said pan including a base of sector form transversely arched with its bounding edges resting on the pan bottom and having its vertex engaging said boss, a side wall having substantially the height and inclination of the pan side wall and disposed in overall abutting relationship therewith, said remover side wall having a horizontal flange engaging



the peripheral flange and extending thereover and beyond said protuberances, a handle integral with said latter flange and outwardly extending therefrom, and a skirt depending from said latter flange extending thereacross and about said handle, said skirt adapted to frictionally engage sa d protuberances as said remover is swung about said boss by the handle.

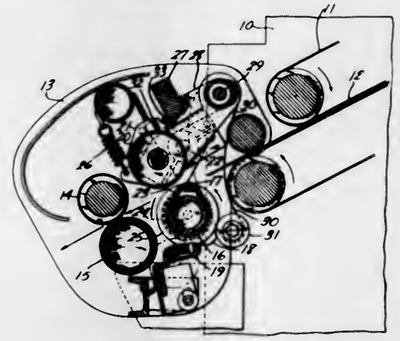
2,667,830
ROTARY CAN END MARKER
Ed Laxo, Oakland, Calif., assignor to Atlas Imperial Diesel Engine Co., Oakland, Calif., a corporation of Delaware
Application October 18, 1948, Serial No. 55,129
6 Claims. (Cl. 101—4)



6. Apparatus of the class described, comprising means for conveying a series of members to be marked along a fixed path, a pair of crankshafts disposed one on either side of the fixed path, means for rotating the crankshafts in unison, a crank for each crankshaft, a die holder carrying a plurality of dies supporting said dies pendulously on each crank for printing engagement, means for selecting a die on each holder for cooperating printing engagement, a lever for each die holder, means for releasably securing each lever at one end to its die holder releasable to permit each holder to be rotated relative to its lever to operatively present a different die for marking purposes, a link for each lever, each link

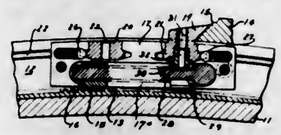
being pivotally connected at one end to the free end of its lever and pivotally mounted at its opposite end for pivotal movement about a fixed axis, the fixed axes about which the links pivot being disposed in a plane perpendicular to the path of travel of the members to be marked and spaced from and disposed on the sides of the crankshafts remote from the direction from which the members are fed toward the dies, whereby the dies travel along ovate closed paths whose major axes intersect to form an acute angle facing in the direction from which the members are fed toward the dies.

2,667,831
DATING MACHINE
Paul B. Streich, Sr., Maywood, Ill., assignor to Charles Bruning Company, Inc., New York, N. Y., a corporation of New York
Application August 30, 1950, Serial No. 182,800
6 Claims. (Cl. 101—233)



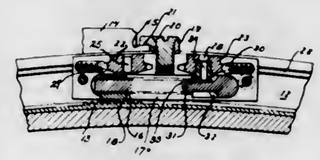
1. Dating mechanism for photoprinting machines comprising means for feeding sheets or the like to a discharge device, date printing mechanism between the feeding and discharge devices, a pressure roller adjacent the printing mechanism, means to mount the pressure roller and printing mechanism to cause the sheets to travel therebetween in their movement from the feeding mechanism to the discharge device, a reciprocatable carriage for mounting the roller, a reciprocating pressure bar, and means operated by the sheet when the sheet is disposed between the printing mechanism and the pressure roller for connecting the pressure bar to the carriage to drive the carriage and pressure roller toward the date printing mechanism.

2,667,832
MEANS FOR SECURING PRINTING PLATES TO THEIR CYLINDERS
Theodore R. Ziebell, Milwaukee, Wis., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application November 2, 1951, Serial No. 254,563
8 Claims. (Cl. 101—378)



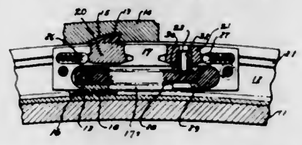
1. A cylinder having spaced grooves, a printing plate and a plate hook, said plate hook comprising a stationary member having means for locking it in a cylinder groove against endwise movement, a movable member having a longitudinal bottom groove housing the stationary member, a plate engaging jaw carried by the movable member, a screw located in said bottom groove and operatively connecting the two members and a manually operated gearing for rotating the screw to slide the movable member along the stationary member housed therein for securing the plate on its cylinder.

2,667,833
MEANS FOR SECURING PRINTING PLATES TO THEIR CYLINDERS UNDER TENSION
Theodore R. Ziebell, Milwaukee, Wis., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application November 2, 1951, Serial No. 254,564
6 Claims. (Cl. 101—378)



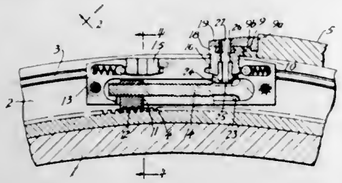
1. A cylinder having spaced grooves, a printing plate and a plate tension hook comprising a stationary member having means for locking it in a cylinder groove against endwise movement, a movable member having a longitudinal bottom groove housing the stationary member, means for slidably holding the movable member in its cylinder groove, a plate tensioning jaw carried by said movable member independently of the means for slidably holding the movable member, a screw located in said bottom groove and operatively connecting the two members and a manually operated gearing for rotating the screw to slide the movable member along the housed stationary member for securing the plate on the cylinder under tension.

2,667,834
MEANS FOR SECURING PRINTING PLATES TO THEIR CYLINDERS UNDER TENSION
Theodore R. Ziebell, Milwaukee, Wis., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application November 2, 1951, Serial No. 254,565
7 Claims. (Cl. 101—378)



1. A cylinder having spaced grooves, a printing plate having recesses in its back, and a plate tension hook comprising a stationary member having means for locking it in a cylinder groove against endwise movement therein, a movable member having a longitudinal bottom groove housing the stationary member, a plate recess engaging tension jaw carried by the movable member, a screw located in said bottom groove and operatively connecting the two members, and a manually operated gearing for rotating the screw to slide the movable member along the stationary member housed therein in a direction to cause the tension jaw to secure the plate on the cylinder under tension.

2,667,835
MEANS FOR SECURING PRINTING PLATES TO THEIR CYLINDERS
Theodore R. Ziebell, Milwaukee, Wis., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application May 7, 1952, Serial No. 286,560
32 Claims. (Cl. 101—378)



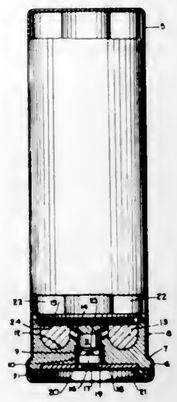
1. A spirally grooved cylinder, a curved printing plate and means for securing it to the cylinder, including combined plate tension and compression plate hooks comprising pivoted plate engaging inner jaw members and removable plate engaging outer jaw members slidably interlocked with the inner jaw members and locked to the leading and trailing edges of the printing plate.

2,667,836
APPARATUS FOR THE USE OF SHAPED EXPLOSIVE CHARGES
Joseph H. Church, Austin, Minn., and Gregory J. Kessenich, Madison, Wis.
Application March 28, 1950, Serial No. 152,438
12 Claims. (Cl. 102—20)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A charge carrier adapted for use in a fluid medium comprising in combination, a tubular member forming a charge carrying compartment, a sleeve fixed with said member and opening through an aperture in the wall thereof, means for mounting a shaped explosive charge within the sleeve in fluid tight relation thereto, a standoff piston slidably mounted in the sleeve in fluid tight relation therewith to a position outwardly of said member to form a pressure chamber with said mounting means, whereby fluids under pressure in said fluid pressure chamber may move the piston outwardly from the charge, and means carried by said tubular member for supplying fluids under pressure to said chamber.

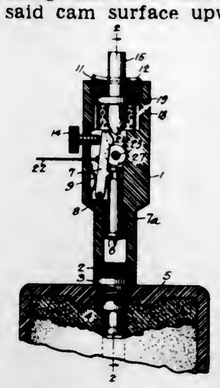
2,667,837
HERMETICALLY SEALED EXPLOSIVE CARTRIDGE
C Walton Musser, Philadelphia, Pa., and Norman K. Turnbull, Pitman, N. J., assignors to the United States of America as represented by the Secretary of the Army
Application May 22, 1951, Serial No. 227,587
6 Claims. (Cl. 102—39)
(Granted under Title 35, U. S. Code (1952), sec. 266)



6. An explosive cartridge comprising: a hollow casing having a central opening thereinto and provided with an internal shoulder facing said casing's opening; a head fitting inside said casing's opening and resting upon said shoulder, said head having a central opening thereinto continuous with a fire hole that communicates with the opening to said casing; a percussion primer in said head's central opening; an explosive charge located in said casing so as readily to be ignited upon detonation of said primer; a hammer movably mounted in said head's central opening axially adjacent to said primer; retaining means in said casing's opening adjacent the outer end of said head for preventing any appreciable endshake of said hammer; and means for hermetically sealing said casing's opening including a cover plate which is capable of receiving and transmitting a detonating blow to said hammer for action, in turn, upon said primer.

2,667,838
NONMETALLIC MINE FUSE
Loren C. Cook, Benicia, Calif.
Application June 9, 1950, Serial No. 167,239
3 Claims. (Cl. 102—70)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A fuze comprising a one-piece casing having a longitudinal axis and a passageway therethrough generally coincident with said axis, a firing pin mounted in the lower end of said passageway for axial reciprocation from an upper retracted position to a lower firing position, spring means urging said pin into firing position, a sear pivoted at its lower end in said casing on an axis transverse to and offset from said longitudinal axis and having a projection intermediate its ends engageable in a sear notch in said firing pin to maintain the pin in retracted position, a pressure plunger mounted in the upper end of the passageway in said casing for axial reciprocation along said longitudinal axis, said plunger having a lower end formed as a cam surface of revolution about said axis and a coaxial circular flange thereabove, and a foraminous sleeve of frangible material surrounding said plunger and interposed between said flange and an abutment in said casing to hold said cam surface upwardly out of



contact with said sear, whereby crushing of said sleeve in response to a downward axial thrust on said plunger causes said cam surface to engage the free end of said sear and pivot the same free of said firing pin and release the same to the action of said spring means.

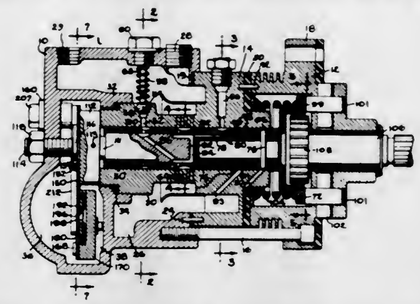
2,667,839
ROCKET MOTOR HOT ASH EXTINGUISHING AND COOLING DEVICE
Joseph James De Carlo, North Tarrytown, N. Y.
Application February 6, 1952, Serial No. 270,266
2 Claims. (Cl. 102—89)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a line projecting device the combination with a cylindrical propellent barrel having a restricted discharge outlet, a cylinder charged with inert gas within and at the forward end of said barrel, a charge of propellent powder in said barrel in the rear of said charged cylinder, a noninflammable leader operatively connected with said barrel, and a fusible closure sealing the rearward end of said charged cylinder.

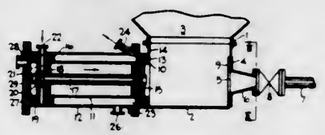
2,667,840
FUEL INJECTION APPARATUS AND CONTROL MECHANISM THEREFOR
Carl F. High, Detroit, Mich.
Application March 28, 1951, Serial No. 218,045
20 Claims. (Cl. 103—2)

1. In a fuel pump, a casing having a cylindrical bore provided with an inlet passage, an outlet passage, and a spill passage; a hollow cylindrical pumping plunger mounted for rotation and reciprocation within said bore and having an inlet port, an outlet port, and a spill port extending through the wall thereof, a cylindrical metering valve member disposed within said pumping plunger, said valve member and plunger presenting therebetween a variable-volume intake and discharge chamber, there being a spill passage formed in said metering valve member in constant communication with said chamber, said inlet port and inlet passage being arranged for communication during axial movement of the rotating plunger in one direction, said outlet port and outlet passage being arranged for communication during movement of the rotating plunger in the other direction, said spill port being ar-



ranged for simultaneous communication with said spill passages during at least a portion of the movement of said piston in said latter direction; and means for rotating and reciprocating said pumping plunger.

2,667,841
PUMP
Campling William Meader, Burntisland, Scotland
Application April 10, 1950, Serial No. 154,921
Claims priority, application Great Britain May 6, 1949
6 Claims. (Cl. 103—50)

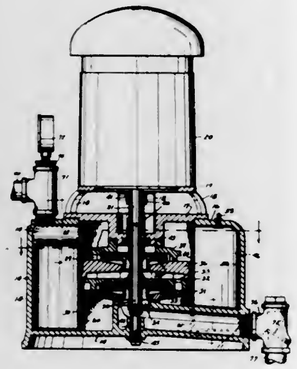


1. A pump for pumping mud, comprising a chamber for the mud, said chamber having a wall with a discharge aperture formed therein, a movable open ended cylinder of a length at least as great as that of the chamber axially movable through said chamber, a fixed cylinder adjacent said chamber and secured thereto, a fixed annular seating disposed in said wall surrounding said discharge aperture, a piston axially movable within said movable cylinder, fluid pressure operated driving means to move said movable cylinder axially from a position in which the open end of the movable cylinder is adjacent one end of said chamber to a position in which said open end engages said seating, said driving means including a fluid inlet and outlet formed in said fixed cylinder, and additional driving means to move said piston axially within said movable cylinder.

2,667,842
PUMP
Walter Agustus Shallenberg, Salem, Ohio, assignor to The Deming Company, Salem, Ohio, a corporation of Ohio
Application June 1, 1950, Serial No. 165,553
3 Claims. (Cl. 103—87)

1. In a self-contained water system, a vertically extending cylindrical container closed at its bottom and having a top provided with an axial opening, a vertically extending axially positioned perforate cylinder of substantially the

same diameter of said opening positioned within said container and extending from the top to the bottom thereof, an endless closed flexible water and air impervious inflated air bag substantially filling the space between the perforate cylinder and the vertical wall of the container, a centrifugal pump having its axis coextensive with the axis of the container mounted within the cylinder and resting on the bottom of the container, a motor supporting head secured to the upper end of the container and coacting with



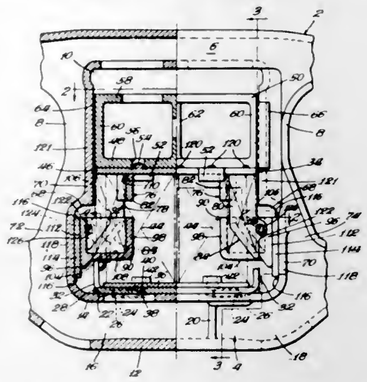
the perforate cylinder and the pump to clamp them in position within said container, said head forming a closure for said container, a motor mounted on top of said closure, a drive shaft extending through said closure and connecting the pump with the motor, said container and pump having aligned inlet openings and an outlet passageway leading from the interior of the perforate cylinder and extending radially within the container adjacent its top and having an upwardly opening discharge.

2,667,843
SELF-PROPELLED VEHICLE
Walter B. Dean, Paris, France, assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 30, 1950, Serial No. 152,861
15 Claims. (Cl. 105—62)



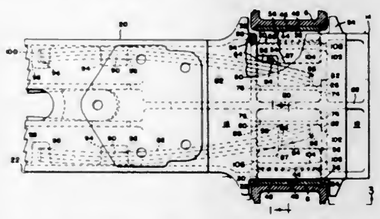
1. In a motor vehicle having a floor and roof and an internal combustion engine mounted below the floor, in combination, a duct through the car extending from beneath the floor to above the roof, engine coolant fluid radiators mounted on the roof at each end of the duct, inflow and outflow pipes passing through the duct to each radiator, means securing each radiator at one point adjacent the duct and allowing expansion at other points away from the duct, and means for clamping the radiator down upon the roof at other points along its length by clamping elements providing the longitudinal expansion relative to the fixed clamped point.

2,667,844
SNUBBED TRUCK
Lawrence F. Ramos, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application March 9, 1950, Serial No. 148,555
10 Claims. (Cl. 105—197)



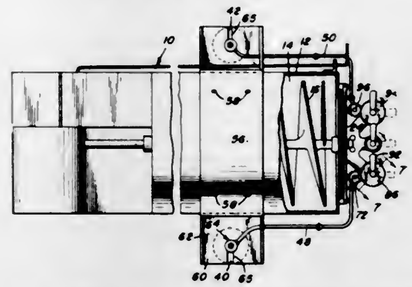
7. In a railway car truck, a side frame, a bolster spring-supported therefrom, friction means carried by the bolster in slidable frictional engagement with the frame, and abutment means on the frame engageable with said friction means for limiting upward movement of the bolster.

2,667,845
SNUBBED TRUCK
Egbert J. Maatman and Leo A. Lehrman, Chicago, Ill., assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application July 11, 1947, Serial No. 760,234
21 Claims. (Cl. 105—197)



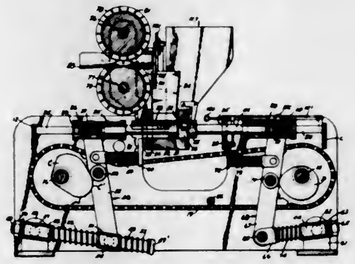
19. In a railway car truck, a side frame, a bolster spring-supported therefrom, friction means carried by the bolster and engaging said surface, and actuating means for said friction means comprising a spring member reacting between said friction means and said bolster for moving the same solely laterally outwardly of the bolster against said surface, and resilient means reacting between the friction means and the bolster arranged to urge said friction means longitudinally of the bolster into engagement with a surface thereon and also laterally outwardly of the bolster, said resilient means being slidable against said friction means longitudinally of the bolster, said spring member being effective, on movement of the friction means outwardly laterally of the bolster, to reduce the wear between said resilient means and said friction means due to the sliding action therebetween by aiding in such outward movement of the friction means and thus relieving the contact pressure between said resilient means and friction means.

2,667,846
FLAVOR INJECTION UNIT FOR FROZEN DESSERT MACHINES
Gerald P. Grumbly, West Palm Beach, Fla.
Application September 2, 1949, Serial No. 113,684
5 Claims. (Cl. 107—1)



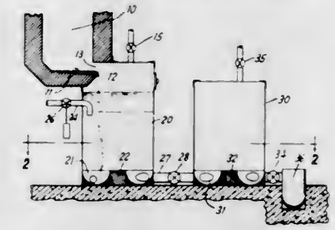
5. In frozen confection dispensing apparatus, a dispensing manifold having an inlet opening for receiving a semi-frozen confection thereinto, said manifold having a pair of discharge passages communicating with the inlet opening, an injection nozzle in at least one of the passages, a valve for controlling the flow of material through each of the passages, a further valve for controlling the flow of material through the injection nozzle, and means interconnecting the further valve and the valve associated with the passage in which the nozzle is disposed for common actuation.

2,667,847
MACHINE FOR FORMING AND PREPARING BODIES OF CANDY FOR WRAPPING
James M. Carris and Clarence L. Crane, La Habra, Calif., assignors, by mesne assignments, to said James M. Carris
Application May 25, 1949, Serial No. 95,228
13 Claims. (Cl. 107—8)



1. A candy machine of the character described, comprising a body having an elongate horizontally disposed cylindrical mold chamber, said chamber having one end open for the discharge of a molded candy piece therefrom, said body having an inlet opening leading into the chamber through the top thereof at a position inwardly from said one end, a pair of relatively movable compressing dies, one of said dies being in the chamber and the other die being movable through the discharge opening into said chamber toward the said one die to press mold a body of candy in the chamber, means for supporting a stick handle for movement along a path extending transversely of the chamber, means for moving the handle lengthwise, means whereby an end of a handle may be introduced into a candy body in the chamber, means for removing the candy body and handle from the chamber upon separation of the dies, and means for knocking the candy body free from the said other die when the latter has moved out of the chamber.

2,667,848
CONTINUOUS SLAG REMOVAL APPARATUS FOR PRESSURE-FIRED COMBUSTION APPARATUS
Philip Baxter Silk, London, England, assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey
Application September 29, 1949, Serial No. 118,694
Claims priority, application Great Britain October 29, 1948
15 Claims. (Cl. 110—165)

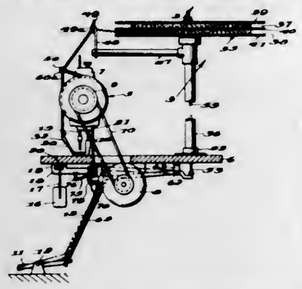


1. Combustion apparatus comprising, in combination, a combustion furnace arranged to be fired under superatmospheric pressure by an ash-containing fuel with collection of the ash in molten form; a first closed chamber in sealed communication with said furnace, said furnace being arranged to continuously discharge molten ash into said chamber; means for supplying liquid to said first chamber to receive and quench the molten slag discharged thereinto; a second closed chamber; a valved connection between said chambers to transfer slag to said second chamber; and a valved outlet from said second chamber for periodically removing slag therefrom; said second chamber being of such size that, when said valved connection is open, air at atmospheric pressure in said second chamber will be compressed to the furnace pressure by transfer of liquid and slag to said second chamber while said valved outlet is closed and covered with liquid; said valved connection being operable to isolate said second chamber from said first chamber.

2,667,849
APPARATUS FOR FEEDING AND STITCHING SLIDE FASTENER STRINGERS TO GARMENT FLY PIECES
Michael King Rohrlick and Joan Eleanor Rohrlick, Montreal, Quebec, Canada
Application December 18, 1951, Serial No. 262,212
Claims priority, application Canada December 18, 1950
9 Claims. (Cl. 112—2)

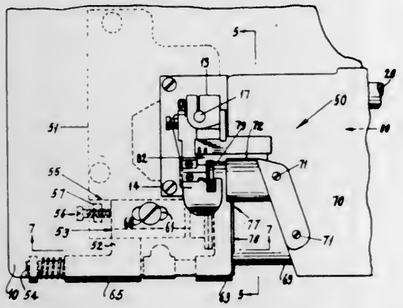
1. In combination with a sewing machine having a working bed and mechanism operable for stitching and feeding work together along the working bed, a reel supporting spindle mounted for vertical movement, a multi-compartment reel rotatably mounted on said spindle, each of said compartments containing a slide fastener stringer arranged for selective feeding of one of said stringers to the working bed, said mechanism including a presser foot, means carried by said presser foot for selectively guiding a stringer from said reel to and beneath the presser foot with the attached coupling links arranged either

along the left or right hand side of the stringer, means to brake said reel, means to raise and lower said presser foot, and means operatively



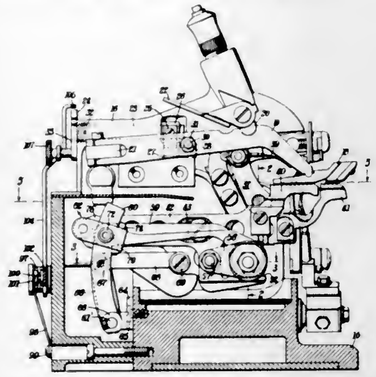
connected to said last means and to said braking means to render said braking means inoperative when said presser foot is raised.

2,667,850
TRIMMING ATTACHMENT FOR SEWING MACHINES
Joseph Galkin, New York, N. Y.
Application December 16, 1952, Serial No. 326,264
3 Claims. (Cl. 112—122)



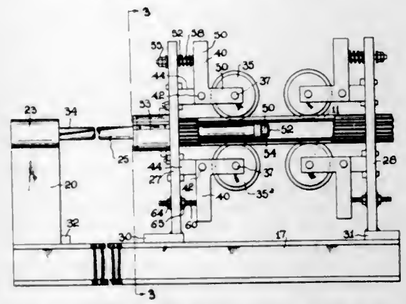
1. In a trimming attachment for a sewing machine having a needle, comprising a work supporting base, a presser-foot, a cutting blade fixed to said work supporting base, a cooperating movable cutting blade carried by a movable blade carrier and actuated from a horizontal shaft rockably mounted directly below said work supporting base, a main chip guard fixed to said work supporting base and having a rearwardly and upwardly inclined wall terminating in a guard wall positioned slightly to the rear of said cutting blades and forming an unobstructed opening at the front portion of said base and to one side of said needle, a further chip guard fixed to said movable blade carrier and facing downwardly into said main chip guard and having a rear upright guard wall, said work supporting base having a portion removed providing a through opening to permit said vertical guard walls to extend upwardly above said work supporting base, said presser-foot having a transverse opening permitting said movable cutting blade to pass upwardly therethrough, and means for actuating said rock shaft from beneath said work supporting base to thereby leave said front opening unobstructed and in coaction with the needle and with said main chip guard, whereby selvage trimmings from said cutting blades may move downwardly through said transverse opening in said foot, downwardly over said upright guard wall of said further chip guard and then forwardly over said inclined wall of said main chip guard and discharge entirely clear of the forward face of said sewing machine base.

2,667,851
FEEDING MECHANISM FOR SEWING MACHINES
Nicholaus Knaus, Cranford, and Agnes G. Millington, Clifton, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application November 14, 1951, Serial No. 256,242
10 Claims. (Cl. 112—209)



1. Sewing machine feed mechanism including in combination, a pair of eccentrics, a normally stationary feed guide, a feed-dog carrier supported for oscillatory and reciprocatory movements with one end thereof slidably engaging said feed guide and with its other end embracing one of said eccentrics, a rocker, a link connecting said rocker with said carrier for imparting reciprocatory movements to said carrier, a slide block movably carried upon said rocker, a pitman having one end embracing the other of said eccentrics and its other end connected to said slide block for actuating said rocker, and means connected with said slide block for shifting the same lengthwise of said rocker thereby to vary the amplitude of swing imparted to said rocker.

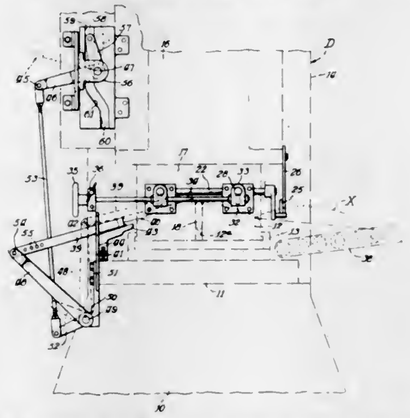
2,667,852
APPARATUS FOR TWISTING HELICAL FINS AND BONDING THEM TO TUBES
John W. Brown, Jr., Lakewood, Ohio, assignor to Brown Fintube Company, Elyria, Ohio, a corporation of Ohio
Application May 1, 1947, Serial No. 745,153
3 Claims. (Cl. 113—1)



1. In apparatus for simultaneously bonding a plurality of elongate members to the exterior

of a tube by heating said members to bonding temperature and forming them to helical shape with respect to the tube axis, a frame, a mandrel fixed at one end to said frame, a head adjacent the other end of said mandrel, a plurality of nozzles in said head to burn fuel and direct the flame thereof toward a tube overlying said mandrel, a plurality of nozzles in said head to direct coolant against an annular increment of said tube, rollers carried by said frame and resiliently urged toward said tube to hold a plurality of elongate members against the exterior of said tube in position to be bonded thereto while said tube and members, and said rollers and mandrel, are moved relative to each other to heat to bonding temperature and thereafter cool successive annular increments of said tube and elongate members, a helical groove formed in said mandrel adjacent said frame, a head on said mandrel to engage with said groove and be guided in a helical path thereby as it moves along said mandrel and members carried by said head to engage an end of said tube to prevent relative rotation between said tube and head to rotate said tube and twist said elongate members to helical shape at the increment thereof heated to bonding temperature.

2,667,853
AUTOMATIC RECEIVING AND EJECTING MEANS FOR PRESSES
Roy C. Ingersoll, Winnetka, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 16, 1948, Serial No. 65,630
7 Claims. (Cl. 113—50)



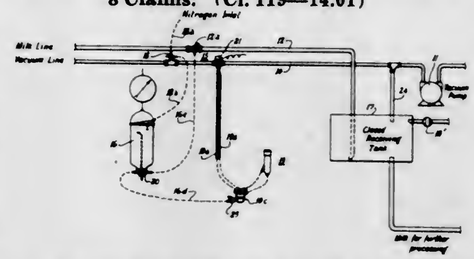
1. A press for forming discs having concavo-convex cross-section comprising a convex die for receiving a blank, a ram movable in directions toward and retractable from said die, and a concave die on said ram confronting said convex die, in combination with an ejector assembly comprising, a reciprocal bar; means for guiding said bar in a plane approximately tangent to the work face of said convex die; a cross member on the portion of said reciprocal bar adjacent said convex die for engagement with a formed blank on said convex die; bell-crank means mounted on a fixed portion of said press. one arm of said bell-crank being connected to said reciprocal bar; a plunger rod reciprocal vertically alongside said press and having its lower portion connected to another arm of said bell-crank means; means defining an irregularly shaped guide on said ram; and swingable means pivoted on an upper portion of said press and having a portion operatively connected to said plunger rod, said swingable means having another portion cooperatively associated with said guide, the retractable movement of said ram being effective to move said swingable means in a direction to raise said plunger rod thereby to operate said ejector assembly and dislodge the blank on said convex die.

2,667,854
CURB FINDER FOR MOTOR VEHICLES
Ludwig A. Ihlein, Philadelphia, Pa.
Application January 26, 1953, Serial No. 333,190
4 Claims. (Cl. 116—28)



1. In a curb finder for motor vehicles, a body portion in the form of an outer coiled spring deflected outwardly near its upper end to form a stop, an inner coiled spring freely movable in the outer spring and shaped at its upper end to engage said stop and limit downward movement of the inner spring, a plug closing the upper end of the outer spring, a spring interposed between said plug and the upper end of the inner spring, and a mounting attachable to a motor vehicle and on which said outer spring is longitudinally and angularly adjustable.

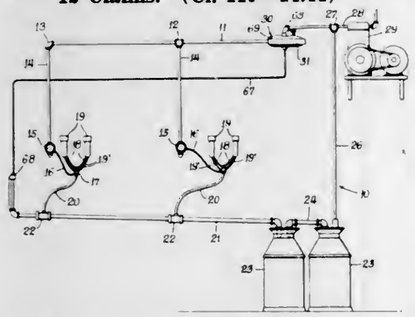
2,667,855
AIRTIGHT MILKING MACHINE
Walter A. Scott, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, Poughkeepsie, N. Y., a corporation of New Jersey
Application August 21, 1952, Serial No. 305,579
8 Claims. (Cl. 119—14.01)



1. In a milking machine of the type having teat cups operated from a vacuum line, a milk receiving conduit, a closed milk receiving pail, transfer valve means connected to the pail, conduits connecting the valve means with the teat

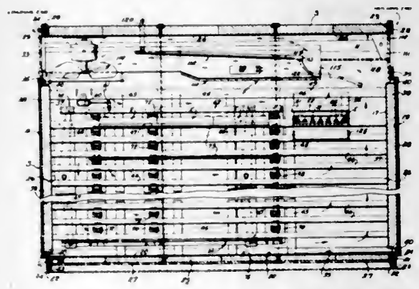
cups and the milk conduit, respectively, and through which the interior of the pail is connected selectively with the teat cups or with the milk receiving conduit in different positions of the valve means, a source of an inert gas under pressure, control means communicating with the pail and having connections with said source and with the vacuum line, and an adjustment member connected to the control means and operable in one position to connect said source and pail through the control means and one of said connections, whereby the pail, valve means, teat cups and milk receiving conduit can be charged with inert gas, the adjustment member having a second operating position in which the control means disconnect the milk pail from said source and connect the pail with the vacuum line through the other of said connections so that milk from the teat cups can be drawn into the pail, the valve and control means being operable upon completion of the milking to reintroduce inert gas under pressure into the milk pail and thus force the milk from the pail into the milk receiving conduit, whereby the milk does not come into contact with the atmosphere during any portion of the milking cycle.

2,667,856
VACUUM REGULATING DEVICE FOR PIPE-LINE MILKERS
Howard A. Heckendorf, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application June 2, 1952, Serial No. 291,190
12 Claims. (Cl. 119—14.44)



1. In a pipe-line milking system having a first vacuum line, a pulsator connected to said first vacuum line, a teat cup cluster connected to said pulsator, a milk receiving line, conduit means connecting said milk receiving line to said teat cup cluster, a milk receiver connected to said receiving line, a second vacuum line connected to said milk receiver, and means connecting said first and second vacuum lines to a source of vacuum; a vacuum regulator comprising a casing, a first air chamber within said casing, a first vacuum connection in communication with said first air chamber, said first vacuum connection being adapted to communicate with said second vacuum line, an air connection adapted to communicate with said first air chamber, a first movable valve in said first air chamber, a pair of first diaphragms connected to said valve and to the casing providing a first vacuum chamber and a second air chamber in communication with the atmosphere, said first valve being movable in one direction in response to movement of said diaphragms for closing said air connection with respect to said first air chamber and said first vacuum connection, adjustable resilient means connected to said first valve for moving said first valve in a second direction to open said air connection, a second movable valve in said casing, a pair of second diaphragms connected to said second valve and to said casing, one of said diaphragms being disposed between the first air chamber and said first vacuum chamber, a second vacuum chamber adjacent the other of said second diaphragms, a second vacuum connection on said casing and adapted to provide for communication between said first vacuum line and said first air chamber, first conduit means connecting said second vacuum connection with said second vacuum chamber, said second valve being movable to close said second vacuum connection from the first air chamber during a vacuum equalization between said second vacuum chamber and said first vacuum chamber, and to open said second vacuum connection to said first air chamber during a vacuum differential between said first vacuum chamber and said second vacuum chamber, and means adapted to connect said first vacuum chamber to one end of said milk receiving line, said means including a second conduit having a lesser flow capacity than said receiving line.

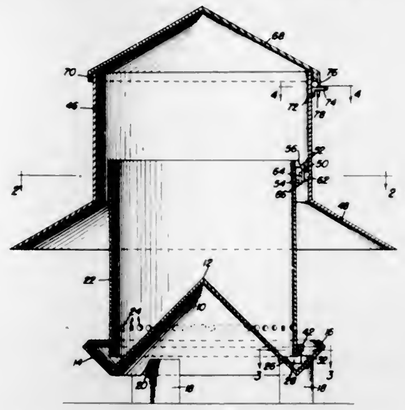
2,667,857
INCUBATING APPARATUS
Samuel H. Smith, Cleveland, Ohio, assignor, by mesne assignments, to The Trescott Company, Fairport, N. Y., a corporation of New York
Application July 17, 1948, Serial No. 39,303
6 Claims. (Cl. 119—44)



1. An incubator comprising a housing for a plurality of egg trays, and means within the housing for reciprocally moving the trays substantially horizontally and tilting eggs carried thereby, said means comprising a frame movable relative to said housing and engaging said trays, and actuating mechanism supported by the housing and connected to the frame for causing reciprocating movement of said frame, said frame comprising substantially horizontally disposed elongated members, spaced vertically disposed elongated members connected to said horizontal members, latch means carried by vertical members for engagement with the trays to move the trays with the frame relative to the housing, and links pivotally secured to the housing and to the frame to move the frame and to guide said frame in motion relative to the housing.

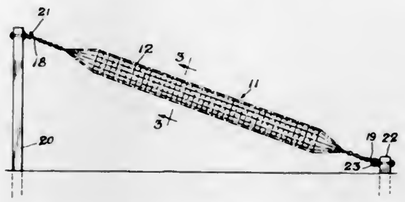
2,667,858
POULTRY FEEDER
Joseph N. Cussotti, Farmingdale, N. J., assignor of fifty per cent to Vittorio Cussotti, Farmingdale, N. J.
Application April 17, 1950, Serial No. 156,388
4 Claims. (Cl. 119—52)

1. A poultry feeder comprising an annular trough having a side wall and a bottom, a cylindrical hopper, means supporting said hopper with its lower end within said trough and in spaced relation to the bottom thereof, a hood surrounding said hopper, means selectively positioning said hood in a lowered position to rest upon said side wall and close said trough and in a raised position to clear said side wall and afford access to said trough, said hood including a sleeve



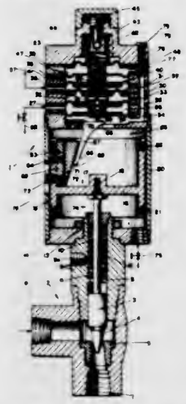
having an upper portion and end and being open at its upper end, brackets on the upper portion of said sleeve, a cover on the open end of said sleeve, brackets depending from said cover, cooperating horizontal cam surfaces on said brackets for securing said cover to said sleeve upon relative rotation thereof, said sleeve brackets constituting handles for lifting said device.

2,667,859
CATTLE AND HOG INSECTICIDE APPLICATOR
Charles H. Murray, Scott City, and Donald E. Breithaupt, Modoc, Kans.
Application September 19, 1952, Serial No. 310,402
1 Claim. (Cl. 119—157)



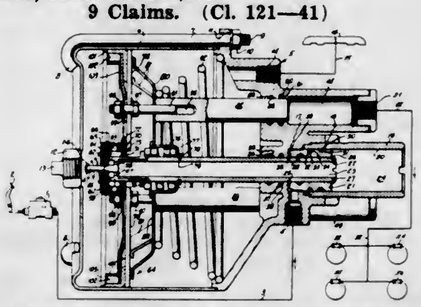
An insecticide applicator comprising a pair of upstanding support members, an elongated foraminous, flexible container, said container comprising a tubular sleeve-like member of meshed chain links, a rigid cup member secured to one end of said container and adapted to contain liquid insecticide, means connecting the other end of the container to one of said support members and the cup member to the other of said support members to support the container in an inclined, substantially taut position with the cup member at the lower end of the container, and a mass of deformable absorbent material impregnated with liquid insecticide filling said container, a portion of said material being received in said cup member, whereby said insecticide is squeezed out of said absorbent material by rubbing contact with the body of an animal.

2,667,860
PRESSURE RESPONSIVE VALVE POSITIONER
James P. Henderson, La Grange Park, and John C. Gall, Chicago, Ill., assignors to McAlear Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 26, 1952, Serial No. 284,674
4 Claims. (Cl. 121—41)



1. A valve positioning device operable in response to the output of a fluid pressure controller comprising a casing, fluid pressure operated means operatively associated with a member to be positioned, guide means associated with said means and movable axially within said casing, means on one side of said first means adapted to continually urge said first means in one direction, a plural diaphragm means for supplying pressure to the opposite side of said first means in response to the output of a fluid pressure controller including a source of fluid pressure, a lower diaphragm assembly and an upper diaphragm assembly, valve seats in each assembly, a double disced valve adapted to seat in said valve seats and a main spring normally urging said upper assembly toward said lower assembly, and cam means operatively associated with said member adapted to control the positioning of said lower assembly valve seat in response to movement of said member.

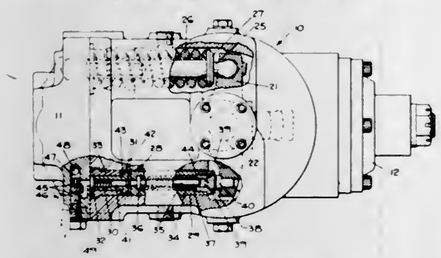
2,667,861
FLUID PRESSURE VALVE
Edward A. Rockwell, Los Angeles, Calif.
Original application January 25, 1947, Serial No. 724,412, now Patent No. 2,646,665, dated July 28, 1953. Divided and this application April 15, 1953, Serial No. 349,079
9 Claims. (Cl. 121—41)



1. In a device of the character described, a housing having a movable wall therein forming

chambers in the housing divided by the movable wall, one of which chambers on one side of said wall has a connection adapted to be connected to a subatmospheric pressure, the chamber on the other side of said wall having a connection adapted to convey thereto a controlled fluid pressure, a spring in the housing to bias the movable wall in one direction, a stop associated with the housing for limiting the position of the movable wall, a selectively movable plunger, having an atmospheric air passage therein, for controlling the position of the movable wall by the fluid pressure acting on the movable wall, a valve carried by the plunger together with a spring to normally bias the valve, said valve having inlet and outlet valve elements, the movable wall having a subatmospheric air passage therethrough, said outlet valve element being positioned to cooperate with said last mentioned passage so as to be initially open, to equalize the pressures on opposite sides of the movable wall, and spring means in the housing cooperating with the plunger, having a rate of deflection to balance the differential between the pressures on the opposite sides of the movable wall when the inlet and outlet valve elements are in closed position as determined by the position of the control plunger.

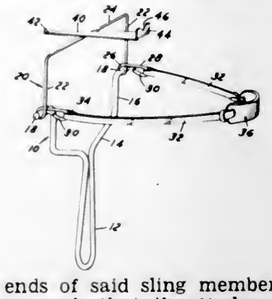
2,667,862
VARIABLE VOLUME HYDRAULIC MOTOR WITH PRESSURE RESPONSIVE VOLUME CONTROL
Ernst F. Muller, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application April 12, 1952, Serial No. 282,052
13 Claims. (Cl. 121—62)



1. A hydraulic motor including means for adjusting its hydraulic capacity for each revolution, hydraulically operated mechanism for adjusting said adjusting means by hydraulic fluid under pressure operating said motor, said hydraulically operated mechanism including means forming a pair of cylinders, a piston in each of said cylinders for adjusting said adjusting means, conduit means for conducting said hydraulic fluid to said cylinders, and valve means normally isolating one of said cylinders adapted to open and close at a predetermined hydraulic pressure whereby when the pressure of said fluid exceeds said predetermined pressure the fluid may flow to said one cylinder.

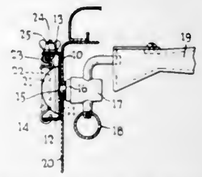
2,667,863
SLINGSHOT
Earl E. Styles, Gaylord, Mich.
Application March 28, 1950, Serial No. 152,410
4 Claims. (Cl. 124—20)

1. A conventional sling shot provided with a sighting device comprising a first frame fashioned to provide a handle and a pair of spaced apart legs extending upwardly from said handle, a second frame pivotally supported at the upper ends of said legs, an elastic sling member, said sling member having its opposite ends connected with said second frame such that the second frame pivots on said first frame to a position corresponding to the line of pull on said sling member, said first and second frames being generally open across the extent between said pivotal connections, said second frame having a generally U-shaped portion, said U-shaped portion being disposed relative to the connections be-



tween the ends of said sling member and said second frame such that the U-shaped portion lies in a plane generally transversely of the line of pull on said elastic sling with the bight portion of said U offset substantially from the pivotal axis of said second frame, and a sight on the bight portion of said U whereby said sight pivots on said first frame in accordance with the line of pull on said elastic sling and the path of a projectile shot from said sling is unobstructed by said frames.

2,667,864
SAFETY ACCESSORY FOR GAS STOVES
Adolph Marx, Brooklyn, N. Y.
Application December 29, 1949, Serial No. 135,590
4 Claims. (Cl. 126—42)

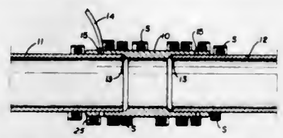


1. In a gas stove having a valve stem projecting from a wall of said stove, and an operating knob arranged on the projecting stem so as to leave a space between said wall and knob, a safety accessory comprising a support member having an opening for accommodating the projecting valve stem, said support member extending in the space between said wall and knob and held in place against said wall by said knob, guard means mounted on said support member for movement from a first position guarding said knob to a second position permitting operation of said knob with the support member held between said wall and knob, and locking means for retaining the guard means in said first position.

2,667,865
DEVICE FOR FORMING PIPE JOINTS
Harry Hirsch Herman, Denver, Colo.
Application December 31, 1948, Serial No. 68,486
3 Claims. (Cl. 126—263)

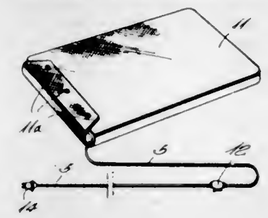
1. A device for forming pipe joints of the capillary type, comprising a strip of exothermic

reaction material adapted to be wound about the exterior surface of a member, said strip having a heat confining shield on one side thereof wider than said strip, said strip being adapted to be disposed with said shield on the outside and with the edges of adjacent convolutions of said



shield in substantially abutting relationship, said heat confining shield comprising a strip of metal extending along one side only of said reaction strip and attached thereto, and a layer of heat retarding material on the opposite side of said metal strip.

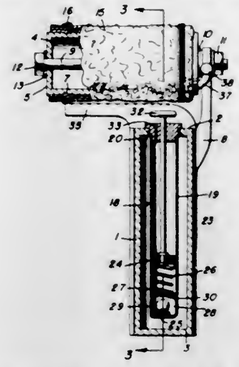
2,667,866
ELECTROPAD
Fred J. Hart, Salinas, Calif., assignor to Electronic Medical Foundation, San Francisco, Calif., a corporation of California
Application October 21, 1949, Serial No. 122,783
12 Claims. (Cl. 128—24.1)



6. A device of the class described comprising a multiplicity of individual groups of multi-turn electrical windings electrically connected in series and energizable from a source of alternating current and normally disposed in coplanar relation, one group of windings centered within an adjacent group of windings, textile lacing cords interwoven with said individual groups of windings and disposed transversely of the direction of the turns thereof for normally maintaining said individual groups of windings in a relatively flat plane, one centered within the other, while allowing said individual groups of windings to vibrate relative to each other under the reaction of the alternating magnetic fields established therearound, for imparting a massaging action to an adjacent body substantially in surface contact therewith, said interwoven textile lacing cords terminating in loops externally and internally of the limits of said groups of windings, a confining cord interconnecting said outside loops and a separate tension cord interconnecting said inside loops for maintaining the shape and contour of said groups of windings under conditions of vibratory movement thereof.

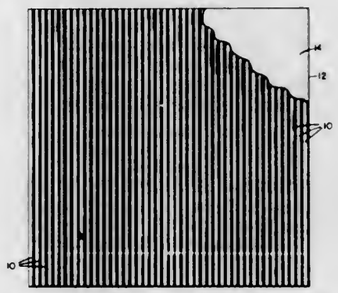
2,667,867
FACE CREAM APPLYING AND FACE MASSAGING IMPLEMENT
Soren C. Petersen, Chicago, Ill.
Application December 11, 1951, Serial No. 261,077
5 Claims. (Cl. 128—62)

1. A face cream applying implement comprising an elongated handle for grasping by a hand to manipulate the implement and being hollow and closed at its ends to contain face cream, an applicator roller, means to mount said roller opposite one end of the handle crosswise thereof, means to eject face cream from said handle onto said roller comprising a pump in said handle discharging into the other end of the handle



and having a plunger rod provided with a finger button at said first named end of the handle operative for operating said pump by a finger of the hand grasping said handle, and dogging means to limit rotation of said roller to apply the face cream with a rolling action and a subsequent rubbing action.

2,667,868
PREFABRICATED SUBDIVIDABLE SURGICAL SPLINT
Leo A. Smyth, Wyoming, Ohio, assignor of fifty per cent to Harry S. Shaffer, Glendale, Ohio
Application January 21, 1953, Serial No. 332,415
9 Claims. (Cl. 128—87)



1. A subdividable prefabricated surgical splint comprising a plurality of elongate splint rods substantially circular in cross section, a flexible carrier sheet, and adhesive means on one side of said sheet engaged by said rods bonding them in close side by side relationship, said splint rods being disposed at one side of said carrier sheet and secured thereto solely by said adhesive.

2,667,869
MOUTH AND EAR PROTECTOR
Anthony D'Elia, Jackson Heights, N. Y.
Application September 13, 1951, Serial No. 246,403
1 Claim. (Cl. 128—147)

A protector mask for application between the ears and across the lips of the head of a user comprising a curved band of one ply thin sheet material with end two ply ear engaging portions, said ear engaging portions consisting of pockets

to cover the back and front of the ears, said material being stitched around the edges and



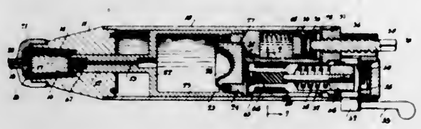
being provided with a row of very small openings extending laterally across the position of the lips.

2,667,870
INJECTION APPARATUS
Edwin A. May, Ridgewood, N. J., assignor to Becton Dickinson and Company, Rutherford, N. J., a corporation of New Jersey
Application September 29, 1949, Serial No. 118,701
7 Claims. (Cl. 128—173)



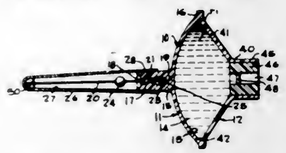
4. A hypodermic injection device including in combination an actuating knob, a sleeve, a piston rod, both said rod and sleeve being secured against movement with respect to said knob, said sleeve encircling and being spaced from said rod, an outer tubular member encircling said sleeve and slidably supporting the same, a tube defining a medicament-receiving chamber secured against movement with respect to said outer member and disposed within the same, a supporting collar carried by said tube towards that end which is adjacent said knob, a stop member fixedly carried by said sleeve adjacent its opposite end, said stop member slidably encircling said tube and being engageable with said supporting collar when said knob is moved away from said outer member and said rod being projectible through said tube and being slidably supported by said collar.

2,667,871
HYPODERMIC INJECTION APPARATUS
George N. Hein, Jr., San Carlos, Calif.
Application November 20, 1951, Serial No. 257,263
10 Claims. (Cl. 128—173)



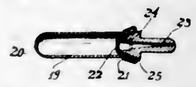
1. A device for hypodermically injecting medicament including in combination a casing providing a medicament chamber adjacent one of its ends, a plunger projectible into said chamber for expelling the medicament therefrom, a pressure accumulator assembly within said casing operatively connected to said plunger to cause projection of the same, said assembly comprising a body containing gas under pressure, a member expansible into said body, a pair of liquid-containing cylinders connected to the interior of said member to expand the same and pistons movable one within each of said cylinders to displace liquid therefrom.

2,667,872
SYRINGE UNIT
Arthur E. Smith, Los Angeles, Calif.
Application March 19, 1952, Serial No. 277,343
6 Claims. (Cl. 128—216)



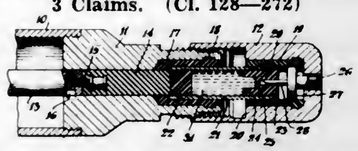
1. In a syringe, a one-piece blown body comprising a front member and a flexible rear member, said front member being shaped to form a recess, and said rear member being shaped to form a second recess substantially complemental to the front member recess, a neck integral with, and extending forwardly from, the front member, said neck having a hole therein opening outwardly, a diaphragm closing the inner end of said hole, said hole having a pair of enlarged, spaced recesses therein, a needle in said hole, a protuberance on said needle normally fitting the outer of said recesses, with the needle spaced from the diaphragm, a second protuberance on said needle beyond said neck, said second mentioned protuberance forming means by which the needle may be moved inwardly so that the inner end thereof pierces said diaphragm and the first mentioned protuberance thereon is engaged in said second recess.

2,667,873
AMPOULE
George N. Hein, Jr., San Carlos, Calif.
Application August 24, 1950, Serial No. 181,161
1 Claim. (Cl. 128—272)



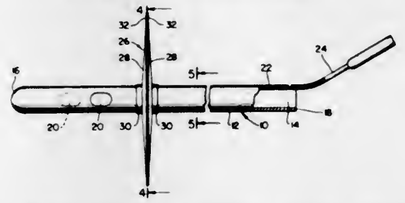
An ampule for a velocity injection apparatus, said ampule comprising a hollow body formed of flexible material and presenting closed and open end portions, a flared surface forming a part of said body adjacent its open end, a nozzle provided with an aperture of such reduced diameter that medicament may be ejected therefrom in a fine stream, a base forming a part of said nozzle, a rupturable cup secured to said body adjacent its open end for closing the latter, said cup being formed with a flared surface disposed adjacent the flared surface of said body and the base portion of said nozzle being similarly flared and disposed in sealing contact with the surface of said cup.

2,667,874
MEDICAMENT CARTRIDGE ASSEMBLY
Fairleigh S. Dickinson, Jr., Ridgewood, N. J., assignor to Becton Dickinson and Company, Rutherford, N. J., a corporation of New Jersey
Application July 9, 1951, Serial No. 235,728
3 Claims. (Cl. 128—272)



1. A medicament cartridge assembly including in combination a tube, a piston stopper adjacent one end of the same, a second stopper fixedly disposed adjacent the opposite end of said tube, a nozzle carried by said latter stopper, said nozzle defining an orifice through which medicament within said tube may be discharged at high velocity upon said piston stopper being projected through said tube, a cannula having a forward end secured to said nozzle, the rear end of said cannula being movable through said fixed stopper to establish communication with the interior of said tube and the outer face of said nozzle defining a blunt end for contact with the surface of epidermis through which the medicament is to be injected.

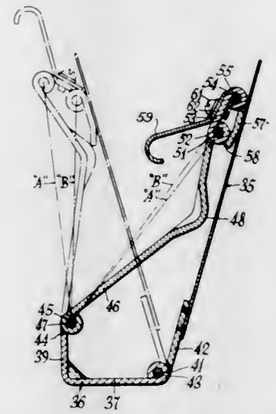
2,667,875
INFLATABLE RETENTION CATHETER
Frederick Joseph Wallace, New York, N. Y., assignor to American Cystoscope Makers, Inc., New York, N. Y., a corporation of New York
Application March 30, 1951, Serial No. 218,467
4 Claims. (Cl. 128—349)



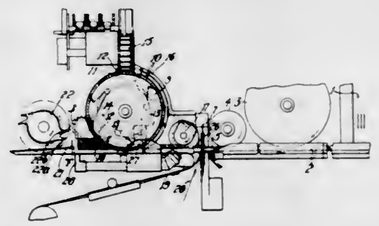
1. In a catheter, an elongated tubular member defining a central longitudinal passage and having in its forward end portion at least one opening establishing communication between its interior and exterior, a non-elastic inflatable bag carried by the tubular member rearward of said opening, said tubular member and bag being formed from a thermoplastic material selected from the group consisting of polyethylene and a copolymer of vinyl resins, and means within the outer confines of the tubular member and the bag for transmitting a fluid into the bag to inflate the same.

2,667,876
TILTABLE COMPRESSOR PLATE FOR POSTING TRAYS
Joseph D. Lear, Buffalo, N. Y., assignor to Posting Equipment Corporation, Buffalo, N. Y.
Application October 29, 1951, Serial No. 253,732
2 Claims. (Cl. 129—26)

1. A compressor plate assembly for a posting tray comprising a substantially planar compressor plate, a first fixed hinge leaf having knuckles at its ends, a pivotal connection between the lower portion of the plate and one of the knuckles of said fixed leaf, said first fixed leaf having a portion adapted to be positioned horizontally on a tray bottom and secured thereto, a second fixed leaf secured to the plate above the lower portion thereof, a first rotatable leaf formed with knuckles at its ends, one of which is pivotally connected to said second fixed leaf at the upper end of said second fixed leaf, and a second relatively long and flexible rotatable leaf formed with a knuckle at one end pivotally connected to the other knuckle of the first rotatable leaf, said second rotatable leaf at its opposite end being pivotally connected to the other knuckle of the first fixed leaf in spaced relation to the plate, said leaves being of such lengths with respect to each other that the center of the connection between the two rotatable leaves is closer to the plate than a straight line drawn between the pivotal connections between the said opposite end of the second rotatable leaf and the second fixed leaf when said center of connection and the rotatable leaves are swung their maximum extent toward the plate, and said second fixed leaf and first rotatable leaf having lengths and overall thicknesses with respect to each other that said second fixed leaf and the interconnected knuckles of the rotatable leaves abut each other when the leaves are so swung, thereby to provide an inner limit stop.

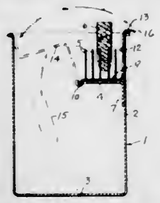


2,667,877
APPARATUS FOR MAKING MOUTHPIECE CIGARETTES
Desmond Walter Molins, Félix Frédéric Ruau, and Norman Walter Jackson, Deptford, London, England, assignors to Molins Machine Company Limited, London, England, a British company
Application December 3, 1951, Serial No. 259,524
Claims priority, application Great Britain December 18, 1950
5 Claims. (Cl. 131—61)



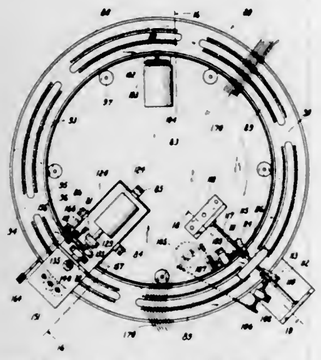
1. In apparatus for manufacturing cigarettes of the kind described, means to feed lengths of unwrapped tobacco and stubs in desired sequence to form a continuous composite filler, and an adjusting element adapted to enter the path of the said filler behind a stub and to move forwardly faster than the said filler so as to advance a stub which is insufficiently advanced, wherein the adjusting element is a thin blade-like element, so that if it enters the tobacco filler behind the stub, it can, due to its thinness, pass through tobacco in its forward movement towards the stub.

2,667,878
CIGAR AND CIGARETTE EXTINGUISHER
Zeno Carl Manning, San Francisco, Calif.
Application September 1, 1948, Serial No. 47,198
15 Claims. (Cl. 131—235)



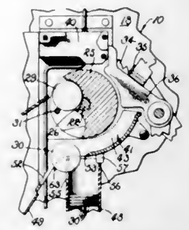
9. In an extinguisher for burning cigar and cigarette butts having a flat base plate supporting a plurality of spaced pins vertically projecting disposed and upwardly therefrom with their pointed ends uppermost and with said pins arranged in a plurality of parallel rows, a stripper plate having a flat portion adapted to be positioned over said base plate and closely adjacent thereto, said stripper plate being formed with a row of slots for said rows of pins respectively with the pins in each row projecting upwardly through one of said slots, means hingedly securing said stripper plate along one of its edges to said base plate for swinging of said stripper plate clear of said pins about an axis extending across the ends of said slots perpendicular thereto whereby butts impaled on said pointed ends will be withdrawn from said ends and ejected to one side of said rows of pins upon so swinging said stripper plate, a handle on said stripper plate along the edge thereof opposite the edge along said axis for manual grasping to effect said swinging of said stripper plate, said handle being an extension of said plate formed integrally therewith, and an ash and butt receiving receptacle supporting said plates in a position for said ejection of said butts onto the bottom of said receptacle, and said handle projecting laterally outwardly from one side of said receptacle.

2,667,879
APPARATUS FOR IMPLANTING HAIR IN MANIKINS, DOLLS, AND THE LIKE
John J. Mann, Milwaukee, Wis., and James A. McDonnell, New York, N. Y., assignors to Mazeko Enterprises, Inc., New York, N. Y., a corporation of New York
Application October 29, 1949, Serial No. 124,305
11 Claims. (Cl. 132—56)



1. A machine for implanting material in a penetrable article, said machine comprising a reciprocating piston, implanting tool means secured to said piston, a support for said piston, and a carrier member movable past said support in a direction perpendicular to said piston, said carrier member being provided with a slot adapted to register with said tool means in certain positions of said carrier member, said piston being operable to effect penetration of said slot by said tool means, first drive means for actuating said piston, second drive means for displacing said carrier members, a first energizing circuit for said first drive means, and a second energizing circuit for said second drive means, said first energizing circuit being operative when said carrier member is in said certain positions.

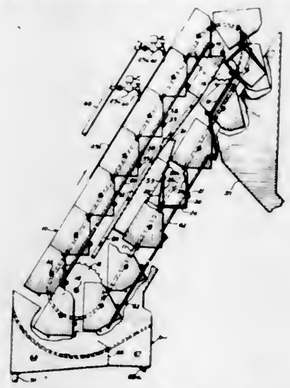
2,667,880
COIN CHANGING MECHANISM
Spencer L. Childers, Fresno, and William B. Warren, Madera, Calif., assignors to Vendorlator Manufacturing Company, Fresno, Calif., a corporation of California
Application February 11, 1952, Serial No. 271,026
6 Claims. (Cl. 133—2)



1. In a device of the character described, the combination of a hollow cylindrical coin tube of substantially uniform diameter mounted in a substantially erect position and having a slot formed longitudinally thereof downwardly from its upper end, a coin directing member mounted on the upper end of the tube having an elongated coin-directing channel therein extended diametrically transversely of the tube and having a slot through the bottom of the channel from a position inwardly adjacent to the side of the coin tube opposite to the tube slot diametrically transversely of the tube aligned with the tube slot and outwardly extended therefrom, and resilient means mounted across the slot in the coin-directing member in spaced relation to the coin tube, elevationally spaced from the bottom of the tube slot a distance less than the diameter of the tube and spaced from the end of the slot in the directing member that is inwardly adjacent to the side of the tube a distance greater than the diameter of the tube.

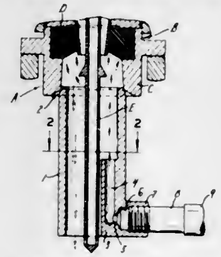
2,667,881
APPARATUS FOR DRAINING AND WASHING GRANULAR MATERIAL
John E. Watkins, Maywood, and Martin B. Mathews, Chicago, Ill.
Application July 3, 1948, Serial No. 36,916
9 Claims. (Cl. 134—131)

1. Apparatus for washing granular material including a series of interconnected material carrying buckets movable upwardly in an inclined plane, a water supply nozzle supported adjacent one of the upper buckets of the series, means for traversing the buckets successively past said nozzle, and guide means on each bucket for receiving the water discharged from said nozzle, said guide means being alined in superposed relation as said buckets move along the inclined plane, each of said guide means having communication with the interior of its associated bucket and including a member operative initially to direct the received



water into its associated bucket and upon further movement of that bucket with respect to said nozzle to direct the water into the guide means of the next adjacent bucket.

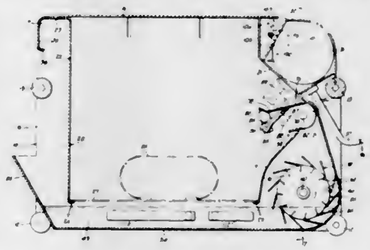
2,667,882
FLUSHING DEVICE FOR BOTTLING MACHINE VALVES
Martino J. Giolmo, St. Louis, Mo.
Application February 28, 1949, Serial No. 78,815
1 Claim. (Cl. 134—166)



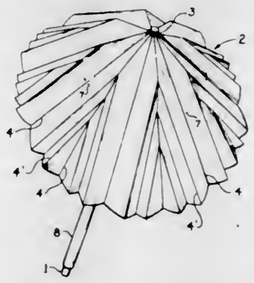
A device for flushing a fluid valve having a bottle lip seat, and a centering bell, of a bottling machine comprising a device for flushing said valve in the event a bottle portion is broken therein, said device comprising a cylindrical body portion which is open from end to end and one end portion is of such size to be received within the centering bell of said valve, means within said body portion for directing a stream of water upwardly within said body portion toward said bottle lip seat of said valve, said means comprising an elongated portion having a water passageway formed therein, and a water connection for delivering water to said water passageway, whereby bottle lip seat serves as an abutment against which the upwardly moving flush water impinges so as to reverse the direction of movement of said flush water and cause it to move downwardly and drain from said body portion.

2,667,883
DISHWASHING MACHINE
Daniel Douglas Demarest, Little Neck, N. Y.
Application January 17, 1948, Serial No. 2,869
3 Claims. (Cl. 134—176)

1. In a dish washing machine, the combination comprising a housing defining a washing chamber, means for supporting a basket of dishes in said chamber, a nozzle supported on a substantially horizontal pivot axis near one end of said chamber to permit said nozzle to oscillate in a substantially vertical plane and having its outlet directed towards one end of said chamber to project a main solid stream of water for dish washing into said chamber, and means including a vane tiltably mounted in said nozzle on a substantially horizontal axis in the path of the stream therethrough and responsive to the movement of the nozzle to one of its extremes to tilt said vane in a direction to cause it to move said nozzle toward the opposite extreme thereby causing said nozzle to oscillate about its pivot axis by the hydrodynamic action of the liquid streaming through said nozzle, whereby the liquid stream from said nozzle is made to play on the dishes in said chamber.



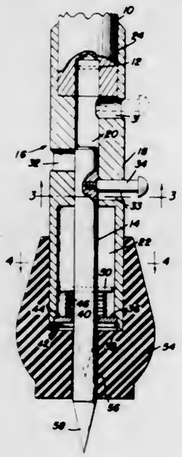
2,667,884
UMBRELLA
Victor M. Bruno and Harry J. Wilson, Los Angeles, Calif.
Application March 7, 1950, Serial No. 148,020
2 Claims. (Cl. 135—20)



1. An improved umbrella, comprising: longitudinal supporting means; element deflecting sheet means flexibly fastened adjacent the center thereof to one end of the longitudinal supporting means, said sheet means being laterally foldable around the center thereof and being outwardly stiffened with respect to the center thereof at positions laterally spaced around the center thereof in a manner whereby the sheet can be folded into a closed position, and whereby the sheet means can be unfolded into open position; stiff force transmission means effectively connected at the outer terminus thereof to the underside of the sheet means at a plurality of angularly spaced points around the center of the sheet means and at the inner terminus thereof provided with and effectively connected to umbrella opening and closing means slidably mounted with respect to the longitudinal supporting means in a manner whereby the umbrella opening and closing means may be longitudinally recipro-

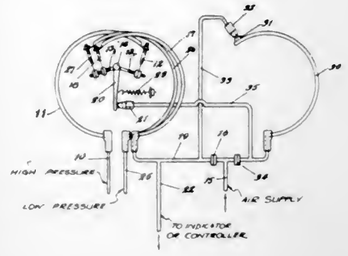
cated in umbrella opening direction which causes compressive force to be transmitted through the force transmission means to the folded sheet means to open same, and whereby the umbrella opening and closing means can be longitudinally reciprocated with respect to the supporting means in the opposite direction for applying tension through the force transmission means to the open sheet means for causing it to become folded into closed position said element deflecting sheet means being provided with a plurality of spaced permanently creased radial folds therein and between each group of three adjacent radial folds a plurality of spaced permanently creased folds all virtually parallel with respect to and on each side of the center radial fold of said group of three radial folds whereby said sheet means will be effectively stiffened when in open position and yet be capable of being collapsed and folded into a compact flat form for storage purposes.

2,667,885
CRUTCH TIP
Mike Prete, Wichita, Kans.
Application February 14, 1951, Serial No. 210,834
2 Claims. (Cl. 135—59)



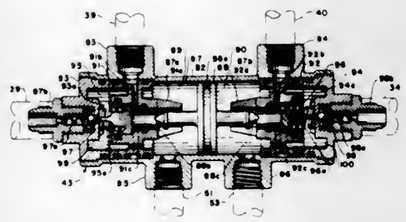
1. In a crutch, an attachment arranged to constitute a lower extension thereof, said attachment including a sleeve having a rod slidably disposed therein and extensible through one open end of said sleeve, means for locking releasably said rod in a plurality of selected extended positions with respect to said sleeve, a resilient tip surrounding the lower end of said sleeve and extending below the lower end of said sleeve, said tip having a passage therein through which said rod is operable, said sleeve having a counterbore at its lower end, a spring located in said counterbore, removable means attached to said sleeve and disposed in said counterbore constituting a seat for one end of said spring, and means carried by said rod forming a seat for the other end of said spring so that said spring opposes the movement of said rod in one direction, said sleeve including a shoulder spaced inwardly of said lower end, said removable means comprising a flat, centrally apertured disc seating against said shoulder, said sleeve having an annular groove spaced below said shoulder and a retainer ring seating in said groove and maintaining said disc in engagement with the shoulder, the removal of said disc permitting the removal of said rod and spring.

2,667,886
FLUID PRESSURE TRANSMITTER
Oswald C. Brewster, Litchfield, Conn.
Application December 19, 1946, Serial No. 717,155
1 Claim. (Cl. 137—84)



A fluid pressure transmitter having opposed fluid pressure elements subject respectively to a primary fluid pressure and a transmitting fluid pressure, a leakage nozzle unit the leakage from which is varied in response to unbalance of forces between said fluid pressure elements, a choked supply to said transmitting fluid pressure element, a second leakage nozzle for directly controlling the pressure of said fluid beyond the choke, and a substantially unrestrained Bourdon tube operated baffle for said second nozzle, the fluid pressure in said tube being controlled by said first nozzle, whereby a variation of leakage at the first nozzle is reflected in a greater variation at the second nozzle.

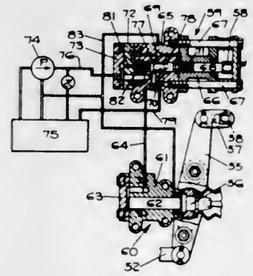
2,667,887
AUTOMATIC VALVE MEANS
Theodore Hoffacker, Jr., Hagerstown, Md., assignor to Fairchild Engine and Airplane Corporation, a corporation of Maryland
Original application April 3, 1947, Serial No. 739,067, now Patent No. 2,491,812, dated December 20, 1949. Divided and this application November 10, 1949, Serial No. 126,519
9 Claims. (Cl. 137—87)



1. Automatic valve means comprising a cylinder, a double-acting piston reciprocable within said cylinder, first and second piston-valves operatively associated with said piston, a normally open fluid inlet connection to said cylinder on each side of said piston, a normally closed pressure connection to said cylinder on each side of said piston, a valve operatively associated with each said pressure connection, said cylinder having an outlet connection on each side of said piston, each said piston-valve disposed such that it controls fluid flow from said inlet connection to said outlet connection on its respective side of said double-acting piston, a valve actuator element on each side of and movable with said piston arranged upon increased fluid pressure

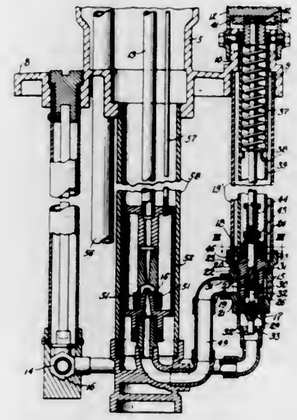
within the inlet and outlet connections on one side of said piston and displacement of said piston away from that side to close the piston-valve on the opposite side of said piston and to actuate the valve operatively associated with the pressure connection on that side of the piston to thereby apply fluid pressure to the outlet connection on that side of the piston.

2,667,888
FOLLOW-UP VALVE FOR VEHICLE BRAKE OPERATING MECHANISMS
Arthur L. Lee, Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application August 30, 1947, Serial No. 771,542, now Patent No. 2,618,491, dated November 18, 1952. Divided and this application January 3, 1951, Serial No. 204,215
1 Claim. (Cl. 137—115)



A follow-up valve for use in a hydraulic brake system including a master cylinder, and a hydraulic booster motor for said master cylinder, said follow-up valve being adapted to control the pressure of hydraulic fluid in said booster motor and including means forming a housing having axially aligned axial bores therein each forming a cylinder, said cylinder having different diameters, said housing also forming spaced pressure and exhaust chambers associated with the cylinder of larger diameter, an operating plunger reciprocably mounted in said cylinder of larger diameter, a valve core in said cylinder of larger diameter provided with spaced lands at opposite ends and a reduced diameter portion therebetween adapted to interconnect said spaced pressure and exhaust chambers whereby hydraulic fluid entering said pressure chamber is by-passed when said booster motor is inoperative, a spring between said operating plunger and said valve core, means forming a piston in the smaller of said cylinders and at the end of said valve core opposite said operating plunger, and spring means urging said valve core toward said operating plunger, said valve housing providing interconnected hydraulic fluid passageways connected with said pressure chamber, an end of said piston opposite said valve core and adapted to lead to said booster motor whereby when said core is urged by said operating plunger and spring to restrict the flow of hydraulic fluid from said pressure chamber to said exhaust chamber said piston is subjected to the increased pressure in the pressure chamber thereby tending to move said valve core toward said operating plunger to reconnect said pressure and exhaust chambers.

2,667,889
SANITARY DRINKING FOUNTAIN AND VALVE THEREFOR
Joseph Kelso Murdock, Cincinnati, and Eugene Le Roy, St. Bernard, Ohio, assignors to The Murdock Mfg. & Supply Company, Cincinnati, Ohio, a corporation of Ohio
Application March 16, 1951, Serial No. 215,994
1 Claim. (Cl. 137—284)

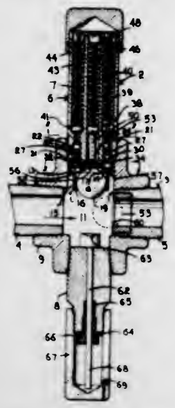


A valve for a frost- and pollution-proof fountain which comprises an upright hollow casing, a valve body attached to the lower end of said casing, said body having an inlet opening at the lower end thereof and a side outlet, a plug in the body and extending past said outlet and into the inlet thereof, said plug being secured by internal screw threads to the body, seals between the plug and the body above and below the outlet, a packing box on the top of the plug, said plug having a chamber in the lower end thereof communicating with said inlet and outlet, the lower end of the chamber terminating in a valve seat, a valve stem extending through said packing box and body into said plug chamber, a valve disk below said valve seat and adapted to seat on the same, said disk being suspended from the stem, a tubular member in said casing surrounding said stem and packing box, said tubular member extending to a level above the top of the casing, said packing box and the lower end of said tubular member having cooperating wrench flats whereby said plug may be screwed into or out of the body from above the top of said casing and removed with the stem and tubular member from the casing as a unit, an inwardly projecting spring supporting boss on the tubular member located above said packing box, a compression spring surrounding the stem and supported on said boss, and a button removably attached to the upper end of the stem and engaging the upper end of the spring, the spring urging the stem upwardly to normally seat said valve disk on the valve seat, the valve being opened by depressing said button.

2,667,890
HIGH AND LOW PRESSURE CUTOFF VALVE
Robert E. Meynig, La Porte, Tex.
Application December 6, 1948, Serial No. 63,711
11 Claims. (Cl. 137—458)

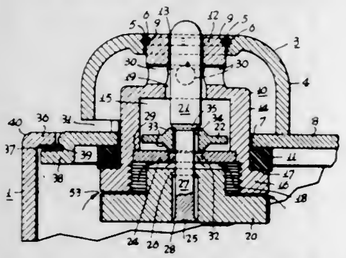
2. A valve for flow lines, comprising, a body adapted to be connected in a flow line and having a passage therethrough, a valve seat across said passage, a valve movable into the line of

flow through said passage adjacent said seat, means releasably retaining said valve in a position at one side of said passage, and plunger means



operable in response to variations from a predetermined pressure in the flow line to force said valve from said retaining means into said line of flow to close said passage.

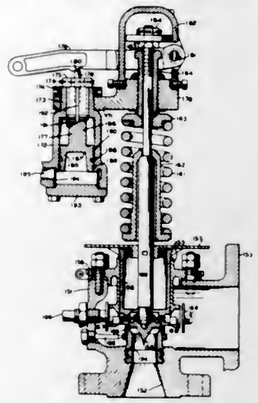
2,667,891
PRESSURE-OPERATED ACTUATING AND RELIEF VALVE
John H. Hilldale, Philadelphia, Pa., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 22, 1948, Serial No. 16,158
9 Claims. (Cl. 137—470)



1. In a pressure venting valve device for use with a pressure source of the character described, a casing structure having inlet and outlet ports and having an inlet end portion of substantial peripheral dimension, a plug removably attached to said structure and forming therewith a narrow passage at said end portion extending inwardly from the entire periphery thereof to the inlet port for introducing pressure of said source to the interior of said structure, and pressure-operable movable valve means within said structure movable between said ports and operable by pressure introduced through said narrow passage.

2,667,892
PILOT CONTROLLED MAIN VALVE FOR FLUID PRESSURE SYSTEMS
Perry H. Gentzel, State College, Pa.
Continuation of application Serial No. 417,775, November 4, 1941. This appplication September 14, 1946, Serial No. 697,053
1 Claim. (Cl. 137—473)

In a fluid pressure system, the combination of a pilot valve and a pilot-actuated valve, the pilot valve comprising a valve body provided with a relief opening adapted to be connected with a tank containing fluid under pressure, said opening being provided about its periphery with an annular valve seat, a piston slidably mounted within said valve body in alinement with said relief opening, and a valve disk carried by said piston in position normally to be seated against said valve seat, the body of said valve adjacent said relief opening being provided with an annular recess forming an exhaust chamber, said piston being adapted to uncover said exhaust chamber, the pilot-actuated valve comprising a valve body provided with a relief port adapted to be con-

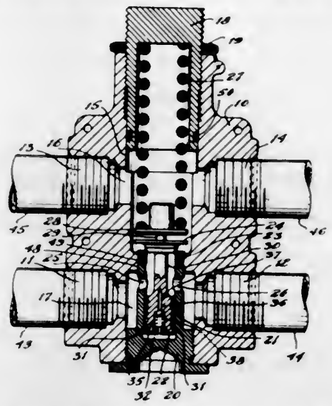


nected with a tank containing fluid under pressure, said port being provided about its periphery with an annular valve seat, a loaded spindle mounted in said valve body, a valve disk carried by said spindle in position to be seated against said valve seat, a lever connected to said spindle above said valve disk to lift said spindle, a cylinder, a piston slidably mounted in said cylinder and having a portion cooperating with said lever, and a connection from the exhaust chamber of the pilot valve to convey a jet of fluid to one side of said piston to actuate said lever and to lift the valve disk of the pilot-actuated valve irrespective of the pressure below the valve disk of said pilot-actuated valve.

2,667,893
RELIEF VALVE
Harry P. Kupiec, Paramus, N. J., assignor to Air Associates, Incorporated, Teterboro, N. J., a corporation of New Jersey
Application February 3, 1950, Serial No. 142,285
4 Claims. (Cl. 137—494)

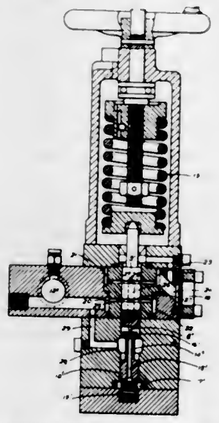
3. In a relief valve, a casing having a valve chamber formed with a closed lower end and having inlet and outlet ports and a valve seat disposed between said inlet and outlet ports providing a relief port therebetween, a combined piston and poppet arranged with the piston disposed for reciprocatory movement in said chamber and normally spaced from the closed lower end thereof to provide a dash-pot construction, and said poppet being movable toward and away from said valve seat for regulating the flow of the fluid from said relief port, means tensioning said piston and poppet for normally maintaining the poppet in engagement with the valve seat, said piston having a passageway opening through the lower end thereof and at its upper end opening into the interior of said chamber below said valve seat, and a valve normally closing said passageway and adapted to open on increase of pressure

above the valve to permit the bypassing of fluid from above the piston and into the space between



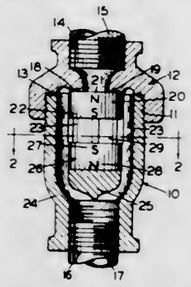
the lower end of the piston and the closed lower end of the chamber for effecting movement of the poppet to open relation.

2,667,894
PRESSURE RELIEF VALVE WITH DAMPING PISTON
John Maurice Towler, Harrogate, and Frank Hathorn Towler, Otley, England, assignors to Electraulic Presses Limited, Rodley, England, a corporation of England
Original application February 17, 1944, Serial No. 522,842. Divided and this application February 20, 1948, Serial No. 9,854
Claims priority, application Great Britain March 9, 1943
5 Claims. (Cl. 137—514)



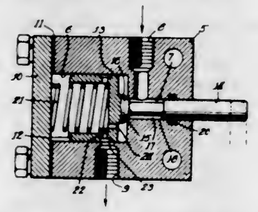
5. A hydraulic valve comprising, in combination, a body having a pressure liquid inlet, a flow passage in communication with said inlet, an outlet, a passage in communication with said outlet, a valve bore, ports respectively connecting said passages to said bore, and a cylinder chamber in axial alignment with said bore, the adjacent ends of said bore and chamber being in intercommunication and in communication with said flow passage, a valve plunger reciprocable in said bore and being movable to open or close communication between said ports, spring means normally urging said plunger into closed position, a damping piston reciprocable with peripheral leakage clearance in said chamber, a valve passage opening axially through said piston and having a valve port at the inner end, a pointed valve rigid on one end of said plunger and engageable with said valve port to close the latter, and spring means in said chamber and acting on said piston to urge said piston inwardly normally to effect engagement of said valve and valve port.

2,667,895
MAGNETICALLY BIASED CHECK VALVE
Stuart D. Pool and Elof K. Karlsson, Moline, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application November 17, 1950, Serial No. 196,284
6 Claims. (Cl. 137—528)



4. A check valve comprising a housing having an outlet in the bottom thereof, a bonnet fastened to the upper portion of said housing and having an inlet in the top thereof, a seat formed in said bonnet spaced downwardly from said inlet, a cylindrically shaped magnetic valve positioned in said housing and adapted to engage the seat in said bonnet, guide means in said housing arranged to guide the magnetic valve for vertical movement toward and away from said seat, a second magnetic member fixedly mounted in said housing spaced beneath said magnetic valve, said magnetic valve and magnetic member arranged so that their like poles are facing each other.

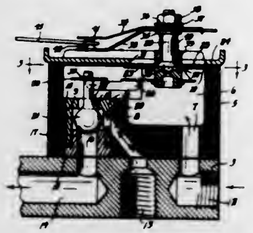
2,667,896
UNLOADING VALVE
John A. Kanuch, South Euclid, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application October 20, 1950, Serial No. 191,285
10 Claims. (Cl. 137—614.11)



1. An unloading valve comprising means defining a piston chamber and a spool valve chamber in fluid communication therewith, a piston journalled in said piston chamber, a balanced spool valve journalled in said spool valve chamber, said spool valve being connected to said piston and movable therewith, resilient means for holding said spool valve normally closed to prevent communication between said spool valve chamber and said piston chamber, and means for shifting said spool valve to open position to

place said chambers in communication, the area of said piston exposed to fluid substantially exceeding the oppositely directed area of said spool valve exposed to fluid.

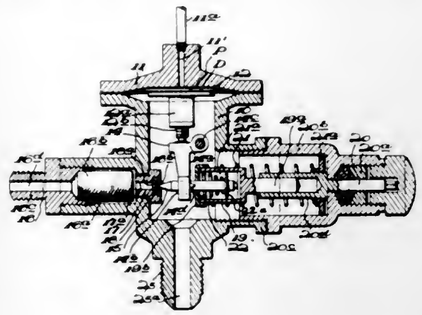
2,667,897
CONTROL DEVICE AND VALVE
William L. Huntington, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 27, 1948, Serial No. 67,454
9 Claims. (Cl. 137—620)



1. A control device comprising a hollow body having an inlet and an outlet and a flexible exterior wall portion, a valve seat between said inlet and outlet, a valve member, a pivoted lever connected to said member and extending through and secured to said flexible wall portion at a point that causes the fluid pressure on said portion to substantially counterbalance the same pressure acting on said valve member in an opposite direction, arms mounted in opposed relationship on one end of said lever, one of said arms being resilient so as to enable further movement of a portion thereof beyond a position where said valve seats, a pivoted power arm having one end thereof positioned between said arms, manually operable means disengaged from said power arm but movable to actuate said power arm a distance sufficient to move said arms to said position, power means adapted to actuate said power arm beyond said position, and means on said power arm cooperating with said manually operable means to hold it in said position but adapted to release it to its disengaged position upon actuation of the power arm by said power means.

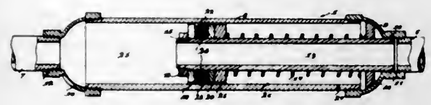
2,667,898
REGULATING VALVE
Theophil Eichmann, Bern, Switzerland, assignor to George B. Scarlett, Kennett Square, Pa.; William J. Scarlett, administrator of George B. Scarlett, deceased
Application July 30, 1947, Serial No. 764,793
In Switzerland September 4, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires September 4, 1965
3 Claims. (Cl. 137—685)

1. In a regulating valve, in combination, a diaphragm mounted for flexing transversely in either direction, a fluid discharge nozzle, a needle valve for controlling discharge from said nozzle, a mounting for said needle valve including a rigidly supported regulating spindle, an axially movable valve support mounted on said spindle, said needle valve being mounted on said axially movable support for movements therewith toward and from said nozzle member, and motion multiplying transmission means connected between said diaphragm and said needle valve support for transmitting movements of the diaphragm to said support and valve thereon as



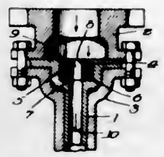
magnified movements thereof relative to movements of said diaphragm.

2,667,899
EXPANSION JOINT FOR PIPE LINES
Willard L. Kingston, Lucerne, Calif.
Application August 10, 1951, Serial No. 241,207
4 Claims. (Cl. 138—27)



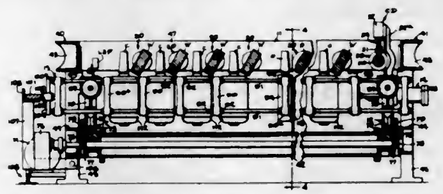
1. The combination with adjacent ends of pipe sections forming a part of a pipe line, of an expansion joint interposed in the pipe line including a pipe of larger internal and external diameters than said pipe sections and disposed therebetween, restrictor couplings connecting said pipe sections to the adjacent ends of the pipe, an inner pipe disposed within said first mentioned pipe and substantially axially thereof having one end secured to the restricted end of one of the couplings and an opposite end disposed intermediate of the ends of the first mentioned pipe, a stop removably mounted on the last mentioned end of the inner pipe, a spring stop mounted on said inner pipe and seated in said aforementioned restrictor coupling, an expansion spring disposed around said inner pipe between the spring stop and said removable stop, a pair of rigid washers slidably disposed on said inner pipe between said expansion spring and said removable stop, and a sealing washer or gasket slidably disposed on the inner pipe between the washers of said pair of washers and compressed by the pressure of said spring between said washers for expanding the sealing gasket radially in both directions into sealing engagement with the periphery of the inner pipe and the bore of said first mentioned pipe to form a chamber between the inner pipe and said first mentioned pipe and between said sealing washer and said aforementioned restrictor coupling which chamber is sealed off from the remainder of said first mentioned pipe, the portion of said first mentioned pipe located between the sealing gasket and the other restrictor coupling forming an expansion chamber, said pair of washers and the sealing gasket being displaced longitudinally of the pipe away from the removable stop by an increased pressure in the expansion chamber and against the action of said expansion spring, for enlarging the expansion chamber.

2,667,900
FLOW CONTROL DEVICE
Francis J. Cantalupo, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application July 28, 1948, Serial No. 41,040
1 Claim. (Cl. 138—45)



A flow control device with upstream and downstream passages, the combination including a body having an annular chamber in communication with the passages, the end limit of said chamber adjacent the downstream passage being defined by an end transverse annular surface, a washer-like member between the upstream and downstream passages and having a compressible reduced annular end portion adjoining the downstream passage, the said washer-like member except for said reduced end portion being fitted snugly within the said annular chamber, the reduced annular end portion abutting said transverse annular surface limit of the chamber and having a central flow passage therethrough, the reduced portion of the said washer-like member being compressible and deformable annularly inwardly into the downstream passage under the influence of end applied fluid pressure within the inlet passage thereby to restrict the fluid flow through the central passage immediately adjacent the inner periphery of the reduced annular end portion of the said washer-like member.

2,667,901
PATTERN CONTROLLED SHAPING MACHINE
David B. Salstrom, Chicago, and David N. Salstrom, Wheaton, Ill., assignors to Salstrom Carving Machine Company, Chicago, Ill., a corporation of Illinois
Application November 28, 1950, Serial No. 197,876
11 Claims. (Cl. 142—15)



4. In a machine for shaping workpieces in conformity with an elongated pattern having an irregular curved surface contour, in combination, a frame adapted to support the pattern and a plurality of workpieces with their longitudinal axes generally parallel, a carrier supporting a pattern following element and a plurality of cutters, power actuated means for relatively reciprocating said frame and said carrier in a path substantially parallel to the axis of the pattern, speed control mechanism for said power actuated means, other power actuated means for rotating the pattern and workpieces in synchronism, a second speed control mechanism for said other power actuated means, a first cam supported on said frame for rotation in synchronism with the pattern and workpieces, a follower mounted on said carrier for cooperation with said first cam in the relative reciprocation of said carrier and said frame, a control device actuated by said follower in response to its cooperation with the first cam for operating the first mentioned speed control mechanism to regulate the speed of the first power actuated means, a second cam mounted on said frame for rotation in timed relation to the rotation of the pattern and workpieces, and a second follower mounted on said frame cooperating with said second cam in its rotation, and means connecting said second follower with said second speed control mechanism for operating the latter to regulate the speed of said other power actuated means.

2,667,902
TREE SAW ATTACHMENT FOR AGRICULTURAL TRACTORS
Philip Whiteside, Tyler, Tex.
Application July 3, 1952, Serial No. 297,040
6 Claims. (Cl. 143—43)

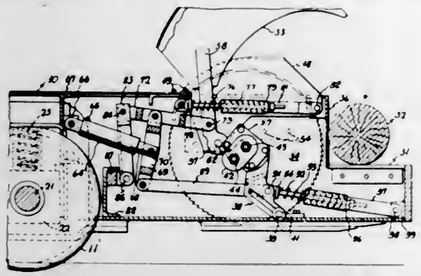


4. In a tree saw attachment adapted to be mounted on an agricultural tractor and including a main frame adapted to be pivotally connected at one end to the rear axle housing of an associated tractor for vertical movements of adjustment, a first shaft journalled on and extending transversely of said main frame near said one end of the latter and adapted to be driven by the power take-off connection of an associated tractor, a vertically disposed post mounted on said main frame at the other end of the latter, bearings mounted on said post at locations spaced apart therealong, a second shaft journalled in said bearings and disposed substantially parallel to said post, means drivingly connecting said first shaft to said second shaft, a sub-frame mounted on said second shaft for swinging movements about the rotational axis of said second shaft, a third shaft journalled on said sub-frame in spaced and substantially parallel relationship to said second shaft and extending below said sub-frame, means drivingly connecting said second shaft to said third shaft, and a circular saw mounted on the lower end of said third shaft.

2,667,903
SAWING MACHINE WITH SEQUENTIALLY OPERATED HOLDER-GUARD AND SAW
Robert A. McCallum, Clarendon Hills, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 28, 1949, Serial No. 90,120
5 Claims. (Cl. 143—47)

4. In a sawing machine, a work support, a saw guard adapted to move into position to hold a work piece against said work support, a saw adapted to advance against said work piece while said work piece is held by said guard, means for moving said guard and said saw in the order named comprising a first operator for moving said guard into position, a second operator for advancing said saw against said work piece after said guard is in position holding said work piece, a force transmitting lever connecting said opera-

tors, a power operated actuator connected to said force transmitting lever, and a spring biasing said second operator in a direction to oppose move-



ment of the saw against the work piece and for determining the movement of said guard and said saw in sequential order upon operation of said actuator.

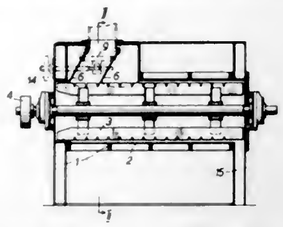
2,667,904
MULTIPLE-TOOTHED CIRCULAR SAW WITH STABILIZING HOLES
Dewey E. Gommel, Indianapolis, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application November 20, 1952, Serial No. 321,590
6 Claims. (Cl. 143—137)



1. A circular saw perforated at its central region for mounting on a spindle, and provided with a peripheral series of teeth separated by gullets, said saw being further provided with perforation units arranged in a circular series concentric with said series of teeth, the number of perforation units being equal to one-half the number of said teeth, the effective area of each perforation unit being at least 0.126 square inch, the distance, peripherally of said saw, between adjacent edges of adjacent perforation units everywhere exceeding the minimum distance from the edge of any perforation unit to the nearest gullet, and the dimension of each perforation unit, in a direction radially of said saw, exceeding the dimension thereof in a direction peripherally of said saw.

2,667,905
MATERIAL PROGRESSOR FOR MACHINES FOR CLEANING OR SCOURING GRAIN, BRAN, OR LIKE MATERIALS
Fritz Tanner, St. Gallen, Switzerland, assignor to Gebrüder Bühler, Uzwil, Switzerland
Application May 20, 1949, Serial No. 94,418
Claims priority, application Switzerland May 25, 1948
1 Claim. (Cl. 146—279)

In a machine for cleaning or scouring grain, bran or like materials, having a beater rotor mounted on a horizontal axis, a perforated drum surrounding the beater rotor, means forming an inlet passage to admit material tangentially to the perforate drum, said inlet passage including two opposed vertical sidewalls and two baffles mounted for pivoting movement on horizontal axes directed at right angles to the drum axis, a similar vertical edge of each baffle being vertically coextensive with a vertical side wall of the inlet whereby the inlet of material is coextensive



axially with one end of the rotor, and actuating means for pivoting the baffles about said horizontal axes to vary the point of downward entry of the material into said drum axially with respect to said rotor and to permit adjustment of the length of travel of material in said drum.

2,667,906
SELF-CLOSING CONTAINER
Benjamin Stiller, Akron, Ohio
Application October 16, 1951, Serial No. 251,477
5 Claims. (Cl. 150—37)



1. A quick-opening and self-closing container for articles comprising a unitary envelope of material having elastic properties similar to those of soft rubber, said envelope defining a substantially fully closed interior volume having a depth relatively small in comparison to dimensions transverse to its depth, and said envelope having a substantially transverse normally closed slit in one face extending from one periphery to an opposite periphery.

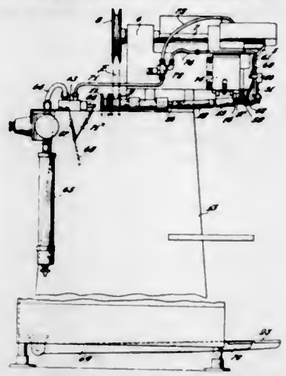
2,667,907
TIRE CHAIN HOLDER
Melvin Givens, Montclair, N. J., assignor of one-half to Peter J. Gaylor, Union, N. J.
Application August 20, 1948, Serial No. 45,349
2 Claims. (Cl. 152—236)



1. In a holder for a tire chain section employing a substantially flat anchor strip mounted on a rimmed wheel carrying a tire and between the tire wall and the wheel rim, said rim being solid and having an outwardly directed edge, the improvement comprising an anchor strip disposed between the rim and the tire wall, said strip having an imbedded portion extending from the

wheel rim base adjacent the tire bead to near the wheel rim edge, a substantially short, protruding portion on said strip curved to hug the tire wall for engaging said chain section, and at least one sharp non-resilient protrusion projecting only a short distance from the imbedded portion of the strip surface, adjacent the solid inside surface and near the base of said rim, and directed along the width of the strip in a line substantially perpendicular to the radius of the wheel at the locus of said protrusion and acting as a frictional gripping element, said imbedded portion and protrusion being the only means for preventing extraction of said anchor strips.

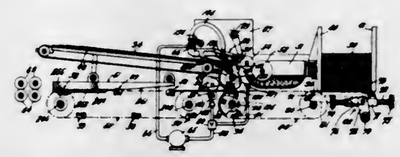
2,667,908
UPHOLSTERING MACHINE
Jacob S. Kamborian, West Newton, Mass.
Application April 19, 1949, Serial No. 88,401
13 Claims. (Cl. 154—1.8)



1. In a machine for stretching sheet material over one surface of a form and for securing the marginal portion of the sheet material to another surface of the form and which includes opposing work-gripping elements, at least one of which is a driven roll, between which the marginal portions of the sheet material are gripped while stretching stress is being applied, the point of application of stretching stress being displaced by the action of the roll by infinitesimal amounts along the margin of the sheet material, a wiper element which urges the marginal material, escaping from between the gripper elements, in a direction substantially perpendicular to the direction of stretching stress, and a nozzle for delivering adhesive, arranged to discharge adhesive into contact with the stressed material before it is acted upon by the wiper element, in combination with said nozzle, means defining a normally closed, airtight chamber for adhesive, means for creating a superatmospheric pressure in said chamber, and a conduit for conducting adhesive from the chamber to said nozzle, the nozzle being so located as to deliver adhesive into the space between the lower face of said roll and the last-named surface of the form.

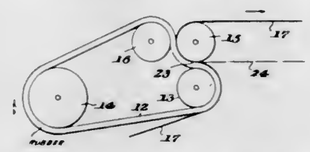
2,667,909
AUTOMATIC BOOK CASEMAKING MACHINE
Anton R. Stobb, Union Township, Hunterdon County, N. J., assignor to Western Printing and Lithographing Company, Racine, Wis., a corporation of Wisconsin
Application July 16, 1952, Serial No. 299,187
17 Claims. (Cl. 154—1.8)

13. In a machine for making cases for books from board-like cores and fabric-like covers therefor, the combination of means for moving cores continuously forward at a constant speed in a single direction, means for moving covers at the same speed and in the same direction and applying them to one surface of the cores with



margins extending beyond the edges of each core, and means for folding the rear margins of the covers around the receding rear edges of the moving cores including an element moving forward in the same direction as the cores but at a greater speed.

2,667,910
APPARATUS AND METHOD FOR CREPING PAPER
Karl Einar Lage Grettve, Lilla Edet, Sweden
Original application July 12, 1945, Serial No. 604,639. Divided and this application December 22, 1949, Serial No. 134,398
Claims priority, application Sweden January 8, 1945
6 Claims. (Cl. 154—30)



2. A machine for creping foils comprising spaced tensioning cylinders, an endless band of elastic material passed over said cylinders without being materially stretched at its inner surface, guiding means in contact with the outer surface of said band, means for leading a foil to said band at a point where said band is expanded on one of said cylinders and means for taking off said foil at a point where said band is less expanded, said band having substantial thickness in relation to the diameter of said cylinder on which said band is expanded, whereby, when said band is bent over this cylinder, the outwardly directed surface of said band which is to cause the creping effect, is first lengthened and thereafter shortened when said band leaves said last mentioned cylinder and said foil is creped by contraction of the outer surface of said band.

2,667,911
PADDED SADDLE SEAT CONSTRUCTION
Charles A. Persons, Worcester, Mass.; Harriet M. Persons and The Mechanics National Bank of Worcester, executors of said Charles A. Persons, deceased, assignors to Persons-Majestic Mfg. Co., Worcester, Mass., a corporation of Massachusetts
Original application November 29, 1947, Serial No. 788,906, now Patent No. 2,600,915, dated June 17, 1952. Divided and this application June 27, 1949, Serial No. 101,566
1 Claim. (Cl. 155—5.23)

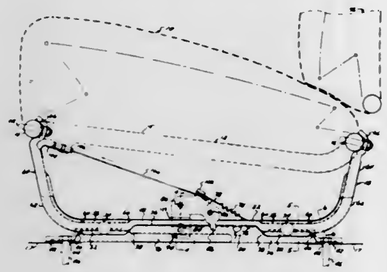
In a saddle of the class described, a saddle seat comprising a flexible top covering, a resilient

padding, a formed base plate, a supplementary plate, a series of pointed projections extending inwardly and upwardly on the supplementary plate, means for securely fastening said steel plates together, said means including several lugs formed downwardly from said baseplate,



said supplementary plate having slots matching said lugs, said flexible top covering being folded around and underneath said baseplate, and being securely gripped by said pointed projections of the supplementary plate, said lugs being folded over against said supplementary plate, permanently fastening said plates together.

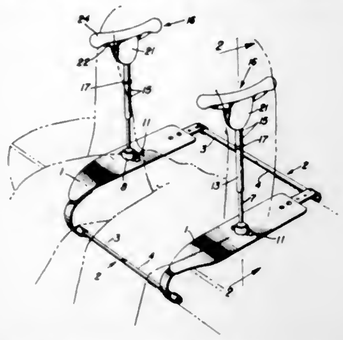
2,667,912
ADJUSTABLE SEAT SUPPORTING MEANS
Charles E. McCormick, Dearborn, Mich.
Application September 11, 1951, Serial No. 246,011
15 Claims. (Cl. 155—14)



15. An adjustable seat support comprising a pair of track members having juxtaposed raceways, anti-friction rolling elements positioned in said raceways and between said track members, said track members being loosely connected together and being free to move relative to one another in a direction longitudinally of the raceways, and means for clamping said track members tightly together comprising a yoke pivotally supported on one of said track members and having a pair of legs straddling the other track member, a clamping member extending across the ends of said legs so that said other track member is disposed between said clamping member and the bight portion of said yoke, and a clamping surface on said other track member engageable by said clamping member when the yoke is pivoted to thereby clamp said tracks tightly together against said rolling elements.

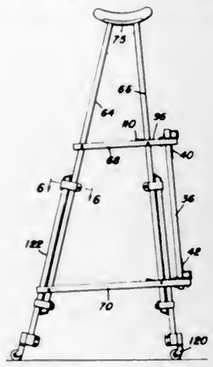
2,667,913
BODY SUPPORT AND WEIGHT DISTRIBUTOR
Ernest G. Dustin, near Galva, Ill.
Application October 13, 1951, Serial No. 251,193
3 Claims. (Cl. 155—188)

1. A body support comprising plate means to rest on a seat, socket means attached to said plate means, said socket means having uprights supported thereby, said uprights having balls at the lower ends thereof whereby the uprights may be inclined, the rear sides of the sockets having slots cut therein which permit the uprights to be tilted backwardly, said uprights comprising a tubular bottom portion, a tubular upper portion,



and an inner portion provided with means for adjusting the height to the tubular upper portion.

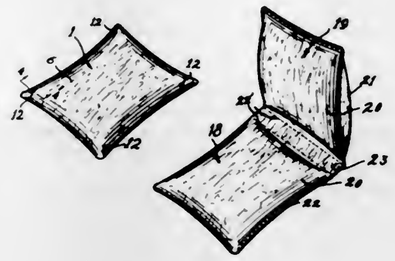
2,667,914
INVALID WALKER
Clarence H. Forbes, Salt Lake City, Utah
Application April 2, 1952, Serial No. 280,010
10 Claims. (Cl. 155—22)



4. An invalid walker comprising a front frame section, said frame section including a plurality of cross members, a plurality of substantially vertical spacing members, substantially T-shaped connectors rigidly securing said cross member and said spacer members at the junction thereof, right and left crutch-like wing sections, each of said wings including a plurality of upwardly converging strut members, cross bars rigidly secured to said struts, hinge members connecting said cross bars to the respective ends of said cross members, brace means for selectively locking said wing sections in fixed relation to said frame and adjustable leg sections clamped to said struts.

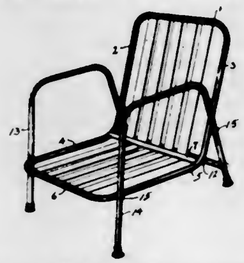
2,667,915
PILLOW
Woodrow W. Pfeffer and Lawrence C. Northquist, Spokane, Wash.
Application November 21, 1949, Serial No. 128,568
1 Claim. (Cl. 155—182)

A pillow comprising a casing of impervious laminated paper, said paper consisting of inner and outer layers and an intermediate moisture proof layer, said layers being adheringly secured in flat face to face engagement with each other, a filler formed of soft shredded paper, said filler being divided into spaced masses, portions of the casing between the masses being disposed in face to face engagement with each other, and



lines of stitching passing through said face to face portions and forming connecting hinges for the filled portions of the casing.

2,667,916
SEAT FRAME
Gorman C. Burd, Clearwater, Fla.
Application April 16, 1948, Serial No. 21,358
6 Claims. (Cl. 155—194)

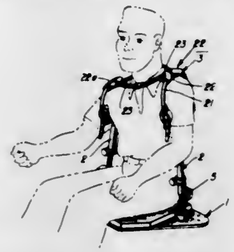


1. In a seat, a framework comprising two side members, front and rear end members consisting of tubes substantially at right angles to the side members and each having along its inner side a plurality of longitudinal slots in alinement with each other and substantially in the plane of the side members, and a plurality of flat metallic straps substantially parallel with the side members, each strap having each end portion extending through a slot in an adjacent end member into the interior of the tube and being bent transversely of its length and of its thickness within the tube at a sufficient angle to prevent withdrawal of the strap at the slot by a longitudinal pull radially of the tube, and means engaging the straps to hold them under radial tension within the slots.

2. A construction as in claim 1 having two leg members secured to the framework on opposite sides thereof and connected to each other to form a chair.

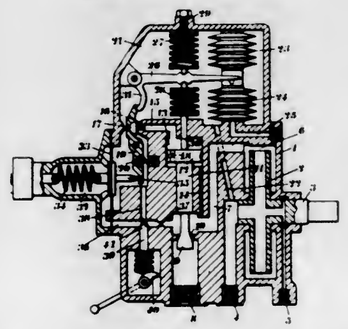
2,667,917
BODY SUPPORT AND WEIGHT DISTRIBUTOR
Ernest G. Dustin, near Galva, Ill.
Application October 3, 1949, Serial No. 119,283
8 Claims. (Cl. 155—198)

1. A body-support comprising a base for the user to sit upon, a pair of rods upwardly extending therefrom, one at each side of the user in sitting position, a pair of shoulder supports, each of which comprises a pad for positioning under the armpit, and a pair of tubes in lengthwise slidable adjustment, one within the other, with the pad carried from the upper end of the outer tube, the inner tube being freely slidably positioned upon said rod, and freely slidably re-



movable therefrom, the above structure making it possible for a portion of the weight of the upper body of the user to be suspended from the shoulders, and a strap means engageable with the pad and holding same connected to the shoulders of the user so that he can rise from the seat without previously detaching the pads from the tubes.

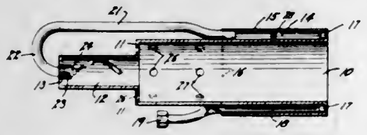
2,667,918
MEANS FOR EFFECTING AND CONTROLLING THE SUPPLY OF LIQUID FUEL TO PRIME MOVERS
Richard Joseph Ifield, Elouera Exeter, New South Wales, Australia, assignor to Joseph Lucas Limited, Birmingham, England
Application April 20, 1948, Serial No. 22,058
Claims priority, application Great Britain May 3, 1947
7 Claims. (Cl. 158—36.3)



7. Means for effecting and controlling the supply of liquid fuel to a prime mover, comprising the combination of a centrifugal pump whose delivery pressure is a function of its speed, an outlet for liquid fuel delivered by the pump, a variable choke located between the delivery side of the pump and the outlet, a cylinder communicating at one end with the delivery side of the pump and provided at the other end with a vent, a spring loaded piston united with the choke and slidable in the cylinder to vary the choke and thereby vary the fuel flow past the choke, a restricted passage interconnecting the spaces in the cylinder at opposite sides of the piston, a valve controlling the cylinder vent, means responsive to barometric pressure for actuating the valve and thereby permitting

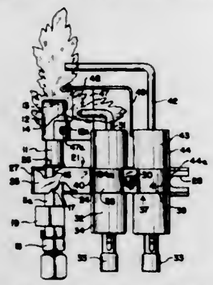
movement of the piston, means for actuating the valve to cause the fuel flow past the choke to be varied in response to a liquid pressure difference dependent upon the outlet pressure of the pump, and manually operable means for regulating the said liquid pressure difference.

2,667,919
LIQUID FUEL BURNER
Richard H. Pardee and Robert J. Strawn, Jr., La Junta, Colo.
Application October 27, 1952, Serial No. 317,019
3 Claims. (Cl. 158—53)



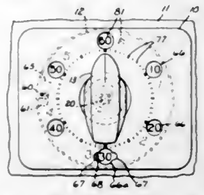
1. A liquid hydrocarbon fuel burner comprising: a tubular combustion chamber having an open forward extremity; an annular end plate closing the rearward extremity of said chamber; a tubular expansion chamber of smaller diameter than said combustion chamber communicating centrally through said end plate and extending rearwardly in axial alignment with said combustion chamber; a rear end plate closing the rear extremity of said expansion chamber; a sealed, annular vaporizing jacket surrounding the forward extremity of said combustion chamber; a pipe ring closing the forward extremity of said jacket; an annular ring plate closing the rear extremity of said jacket; a fuel feed pipe extending forwardly through said ring plate and terminating in communication with said pipe ring, said pipe ring having spaced perforations communicating with said vaporizing jacket; a vapor pipe communicating through the ring plate with the vaporizing jacket and extending rearwardly beyond said expansion chamber, thence forwardly to communicate through the rear wall of the latter chamber; an orifice member mounted in the rear wall of said expansion chamber in communication with said vapor pipe, there being air openings through the wall of said combustion chamber adjacent the rear extremity thereof.

2,667,920
GAS FUELED PILOT BURNER AND ION SENSING FLAME PROBE
James W. Smith, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 22, 1949, Serial No. 134,366
7 Claims. (Cl. 158—123)



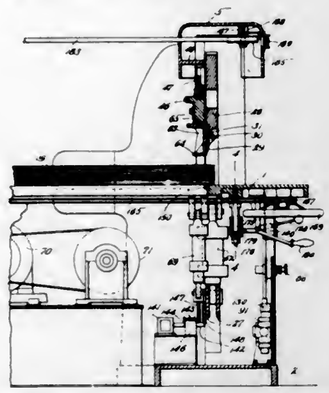
3. In combination, a burner having angularly disposed first and second orifices, an ignition electrode having an end thereof positioned in the path of gas flow from said first orifice, an L-shaped flame sensing electrode positioned on the opposite side of said ignition electrode from said burner and having an end thereof in the path of gas flow from said second orifice, and a shield of flat material positioned between said electrodes and between said first orifice and said flame sensing electrode with the flat sides thereof extending transversely of the plane of said electrodes to prevent a flame at said first orifice from impinging on said flame sensing electrode.

2,667,921
TWO-SPEED TIMER
Edward J. Doyle, Hartford, Conn., assignor to M. H. Rhodes Incorporated, Hartford, Conn., a corporation of Delaware
Application September 20, 1951, Serial No. 247,389
8 Claims. (Cl. 161—15)



1. In combination with a timer having means for shifting the operating speed thereof, a movably mounted dial having a plurality of sets of indicia thereon, means interengaging said dial and speed shifting means to move said shifting means from one operative position to another when said dial is moved a predetermined amount, a face plate covering said dial and having a plurality of spaced apart apertures, and manually operable means associated with said dial for moving the same relative to said face plate whereby said indicia may be brought into registry with said face plate apertures in sets and said interengaging means will cause the speed shifting means to be moved into the operative position corresponding to the set of indicia in registry with the face plate apertures.

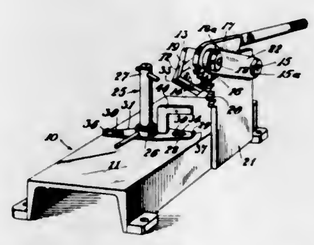
2,667,922
MACHINE FOR CUTTING SHEET MATERIAL
Frank M. Hill, Walpole, and Harold H. Le Blanc, Norwood, Mass., assignors, by mesne assignments, to Harris-Seybold Company, Cleveland, Ohio, a corporation of Delaware
Application December 20, 1947, Serial No. 792,874
5 Claims. (Cl. 164—55)



1. A machine for cutting sheet material and having a knife and a clamp both movable from

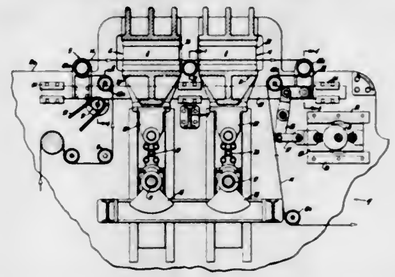
a raised inoperative position to a working position comprising hydraulic means for separately actuating said knife and said clamp on said working and return strokes of movement, power operated means for supplying fluid pressure to said hydraulic means to produce said working strokes, means for supplying fluid pressure from said fluid pressure supply means for separately retaining said knife and clamp in said raised positions intermediate said working strokes, and latch means engageable with parts of said knife and clamp actuating means operable in response to termination of said fluid pressure supply means for mechanically retaining said knife and said clamp in their raised inoperative positions.

2,667,923
GAUGE FOR BRAKE LINING CUTTERS
Sydney G. Tilden, Stewart Manor, N. Y., assignor to The Permafuse Corp., Garden City, N. Y., a corporation of New York
Application April 11, 1950, Serial No. 155,280
1 Claim. (Cl. 164—59)



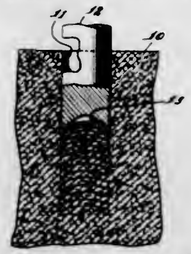
In a brake lining cutter device having a horizontally disposed table and a hinged knife on said table, having its cutting edge facing said table and movable in a vertical plane, the combination of a plate on said table having a central opening, a flange on said plate forming part of said plate and extending upwardly of said plate and having a vertical exterior surface, a member secured to said plate and extending upwardly from said plate between the rear of said flange and said central opening, with a part extending horizontally and having a free end with a vertical exterior surface disposed in vertical alignment with the vertical exterior surface of said flange, both exterior surfaces being in a vertical plane and spaced vertically from each other about the width of a flange of a brake shoe, said vertical plane being spaced from one end of said table to allow a part of the table to be exposed free from said plate, a screw-threaded pin engaging said table and passing through said central opening of said plate, a fastening device above said plate and connected with said threaded pin for holding the plate in fixed position on the table, an eccentric adjusting means forming part of said fastening device for fine lateral adjustment of the plate in respect to said table, and a headed screw engaging the table and passing through an off center slot in said plate preventing rotary movement of said plate, whereby a brake shoe may be held in position on said table by the end of one of its flanges resting on said table, and with the inner surfaces of its flanges abutting said exterior surfaces of said flange and said horizontal member, and its web entering in the spacing between said surfaces and its brake lining surface substantially tangent to the vertical plane of the knife travel to enable the removal by said knife of any brake lining on said brake shoe surface.

2,667,924
SHUTTLE MECHANISM FOR FEEDING WEB TO PUNCH PRESSES
Orville V. Dutro, La Canada, Calif., assignor to The McBee Company, Athens, Ohio, a corporation
Application August 22, 1950, Serial No. 180,831
6 Claims. (Cl. 164—87)



1. A machine of the class described, comprising punching means for automatically punching a web at a punching station in timed relation to travel of the web, a pair of shuttle rollers mounted on opposite sides of the punching station with their axes parallel, for rotation about said axes and for oscillation along the line of travel of the web, a pair of bodily stationary rollers rotatable about parallel axes contained in a plane parallel to the plane containing the axes of the shuttle rollers and having a center-to-center distance less than that of the shuttle rollers and adapted to feed the web to and receive the web from the shuttle rollers, means for oscillating the shuttle rollers in timed relation to travel of the web for periodically causing the web to remain stationary at the punching station, a sprocket rotatable coaxially with each of the bodily stationary rollers, a continuous chain meshing with the sprockets, and means for driving the chain at the linear speed of the web.

2,667,925
METHOD OF PROVIDING PERFORATIONS IN ACOUSTICAL TILES
Louis J. Dalphone, Chicago, Ill., assignor to Certain-Teed Products Corporation, Chicago, Ill., a corporation of Maryland
Application December 23, 1948, Serial No. 67,003
3 Claims. (Cl. 164—125)



1. The method of providing perforations in the face of an acoustical tile, comprising applying pressure to the face of the tile principally upon a sharply defined outline corresponding to the pattern of the opening to be formed so as to effect initial severing of the tile material along such outline, then pressing the severed material into the body of the tile for effecting further severing of the tile material and serving to extend the opening inwardly and to compress the material at

the bottom of the opening, and then withdrawing from the tile the means for applying pressure so as to leave the compressed tile material in position at the bottom of the opening.

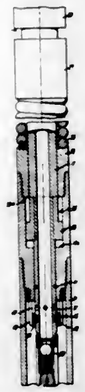
2,667,926
APPARATUS FOR CEMENTING WELLS
Thomas E. Alexander, Houston, Tex.
Application August 12, 1948, Serial No. 43,933
12 Claims. (Cl. 166—1)



1. A well cementing apparatus including, a cementing collar adapted to be connected within a well casing and having a discharge port in its wall, a tubular valve slidably mounted within the bore of the collar and normally in a position closing said discharge port, axial sliding movement of the valve moving the same to a position opening said port, a conductor adapted to be lowered to extend axially within the casing, an actuating tool connected to the conductor, normally retracted valve-engaging means pivotally mounted upon the actuating tool, said valve-engaging means when moved into an expanded position being engageable with the tubular valve whereby subsequent movement of the actuating tool will impart sliding movement to the valve to control opening and closing of the discharge port, and movable means connected with the valve-engaging means for imparting movement to said valve-engaging means from a normally retracted to an expanded position, whereby the tubular valve is engaged by said valve-engaging means and subsequent axial movement of the conductor on which the actuating tool is mounted will operate said valve.

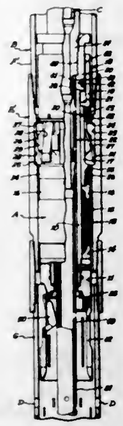
2,667,927
VALVE FOR WELL TESTING TOOLS
Mordica O. Johnston, Glendale, Calif.
Application August 28, 1951, Serial No. 244,078
2 Claims. (Cl. 166—1)

1. An oil well tool, comprising a tubular housing adapted to be fixed in a well bore and having an upper small bore and a lower large bore formed one above the other in said housing, a tubular mandrel slidably received within the small bore and being laterally ported adjacent its lower end and being normally disposed in a position with the ported portion disposed within the small bore, the lower end of the mandrel being closed by an upwardly urged downwardly opening check valve, whereby communication between the interior of the mandrel and the large bore may be established by supplying fluid under pressure to the interior of the mandrel, packing on the mandrel below the ports normally disposed within the small bore and sealingly engaging the walls thereof, spring means urging the mandrel upwardly relative to the housing, whereby the ported portion of the mandrel can be projected into the large bore by forcing the mandrel downwardly relative to the housing against the resistance of said spring means, means for protecting the packing, when exposed, from the



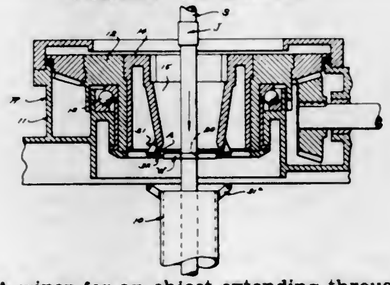
eroding effects of high velocity fluid jetting into the mandrel through the ports thereof, said means comprising a laterally ported cage disposed within and spaced from the walls of the large bore, carried by the housing, and sealingly engaging the lower end of said mandrel, and means slidably but non-rotatably connecting the mandrel and housing to maintain vertical alignment between the mandrel ports and the cage ports so that when the mandrel is forced downwardly, the mandrel ports will be brought into registry with the cage ports.

2,667,928
PRODUCTION PACKER APPARATUS
Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application April 23, 1948, Serial No. 22,888
16 Claims. (Cl. 166—12)



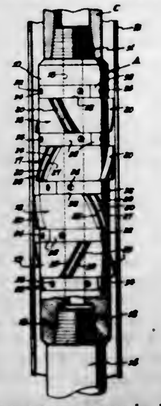
1. In a well tool: a body adapted to be lowered in a well conduit on a running-in string; tubular means slidable along said body; a first outwardly expansible leaf spring on said tubular means engageable with a shoulder in the well conduit for holding said means against downward movement; a second outwardly expansible leaf spring on said tubular means engageable with a shoulder in the well conduit for holding said means against upward movement; and means releasably connecting said second leaf spring to said tubular means, said releasable means engaging and initially retaining said first leaf spring in retracted position, said releasable means being released from said first leaf spring upon continued upward movement of said tubular means while said second leaf spring is in holding engagement with the well conduit.

2,667,929
WIPER FOR STRINGS ENGAGED IN WELLS
Gerald R. Hunt, Long Beach, Calif.
Application December 10, 1948, Serial No. 64,508
6 Claims. (Cl. 166—16)



1. A wiper for an object extending through an opening in a rotary located above a well including, a continuous annular bodily expansible body of flexible material defining a central opening adapted to slidably pass the object, the exterior of the body being smaller in diameter than the opening in the rotary, and a releasable means adapted to secure the said body in operating position between the casing and rotary for limited movement relative thereto.

2,667,930
CASING SCRAPER
Dean F. Saurenman and Paul E. Hilton, Houston, Tex., assignors to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application April 6, 1948, Serial No. 19,396
7 Claims. (Cl. 166—18)



1. In a casing scraper: a main body adapted for attachment to a drilling string, said body having sets of longitudinally spaced grooves, the grooves of one set being inclined with respect to planes in which the body axis lies in the opposite direction from the grooves of the other set; cutter blades slidable laterally in the grooves of each set; and means in said body for urging said blades outwardly of said body; the disposition of said cutter blades in said oppositely inclined grooves minimizing the tendency of said main body to rotate with respect to the drilling string to prevent inadvertent disconnection of said main body from the drilling string.

2,667,931
CASING SCRAPER
Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application August 1, 1949, Serial No. 107,961
22 Claims. (Cl. 166—18)



1. In a casing scraper: a main body attachable to a drill string, said body having an external groove therein around its entire circumference, said groove having a base of substantially circular cross-section; circumferentially spaced scraper blades in said groove; means engageable with said blades for urging them laterally outward of said body; and retainer means in said groove between and overlapping said blades for limiting the extent of outward expansion of said blades.

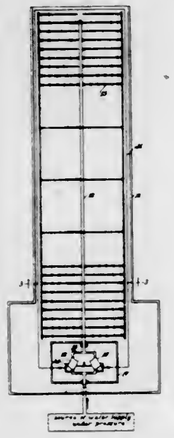
2,667,932
SONIC SYSTEM FOR AUGMENTING THE EXTRACTION OF OIL FROM OIL BEARING STRATA
Albert G. Bodine, Jr., Van Nuys, Calif.
Application February 17, 1948, Serial No. 8,799
7 Claims. (Cl. 166—20)

1. For use in a system for reducing the clogging of oil flow passages in a production well or in the oil bearing formation therearound in a production oil field, which system has an elastic sound wave generator at the ground surface adapted to set up elastic waves in a wave transmission medium in a well hole in said field, the improvement comprising a wave transmission medium in the form of a stiff elastic compression column extending down the well hole, acoustically coupled to the wave generator at the ground surface, and acoustically coupled to the oil bearing formation at the bottom, said com-

pression column transmitting alternating elastic waves of compression and tension from said generator into said oil bearing formation to be expended therein.

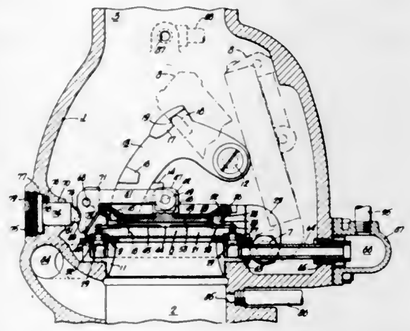


2,667,933
FIRE EXTINGUISHER SYSTEM
Spencer T. Stack, Merrick, N. Y.
Application June 2, 1949, Serial No. 96,632
6 Claims. (Cl. 169—17)



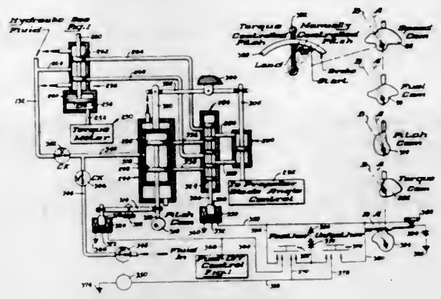
1. In or for a fire extinguishing system, the combination of a source of water under pressure, a header containing air under pressure, a pair of control valves positioned in parallel relationship leading from the source of water to the header, a water valve in each of said control valves adapted when closed to prevent the flow of water therethrough from said source, a pressure valve also positioned in one of said control valves in spaced relationship to the water valve therein and operable by the pressure of the air in the header to maintain said water valve closed, a lock to maintain the water valve closed in the other of said control valves, means responsive to a product of combustion for reducing the pressure of the air in the header to allow the pressure valve and the water valve in one of said control valves to open, means responsive to a product of combustion for releasing said lock to allow the water valve in the other of said control valves to open, and a pipe leading from the compartment between the water valve and the pressure valve in one of said control valves to a compartment on the dry side of the water valve in the other of said control valves whereby water under pressure may be forced from one to the other of said compartments in the event one of said water valves fails to open.

2,667,934
DRY PIPE VALVE
Arthur C. Rowley, Drexel Hill, Pa., assignor to Globe Automatic Sprinkler Company of Pennsylvania, Philadelphia, Pa., a corporation of Pennsylvania
Application December 28, 1951, Serial No. 263,880
1 Claim. (Cl. 169—20)



In a valve of the character described, a casing having inlet and outlet ports, a valve seat intermediate the ports, a valve element having a body portion coactive with the seat to separate the ports, said seat confronting the said discharge port so that fluid pressure at the inlet port will tend to unseat the valve element, a chamber in the valve seat opening toward the discharge port and sealed by the valve element from both of said ports when the said element is seated, a duct extending from the chamber to the exterior of the casing, a member supported solely by said body portion and constituting a relatively moveable part of the valve element, flexible means connecting the member with the said body portion and sealing the joint between the member and the body portion so as to form with the latter a chamber within the valve element, said flexible means being exposed to fluid pressure at the discharge side of the valve, channel means in said body portion for establishing communication between the last named chamber and the chamber in the valve seat when the valve element is seated, a relatively fixed detent on the casing, a latch member pivotally mounted on the body portion of the valve element for interlocking engagement in an advanced position with the detent to retain the valve on its seat, said member being pivotally retractable for disengagement from the detent, and said latch member being connected to the said relatively moveable member of the valve element and being held by the latter in the said advanced position when the said member and flexible means are under fluid pressure in the discharge side only of the valve casing as when the valve element is seated, and said detent constituting a fulcrum for retractive movement of the latch member about its pivot resulting from displacement of the valve element from its seat by unbalanced fluid pressures in the intake side of the valve casing.

2,667,935
AIRCRAFT PROPELLER AND ENGINE CONTROL SYSTEM
James S. Woodward, West Hartford, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application October 1, 1947, Serial No. 777,322
20 Claims. (Cl. 170—135.74)



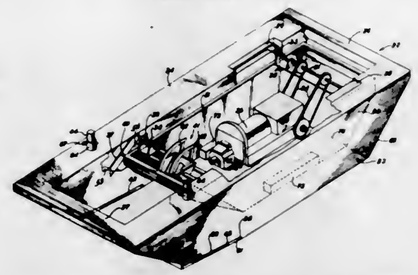
1. Control apparatus for a variable pitch propeller, comprising propeller pitch varying means, an internal combustion engine driving the propeller, a control device manually movable sequentially through first and second ranges of positions, first means responsive to the position of said control device when said device is in said first range of positions to operate said pitch varying means to produce a selected value of propeller torque corresponding to a selected position of said control device, under varying engine operating conditions, and second means responsive to a selected position of said control device when said device is in said second range of positions to operate said pitch varying means to produce a selected propeller pitch angle corresponding to the position of said control device, under varying engine operating conditions.

2,667,936
BOAT PROPELLER
William F. Clark, Portland, Oreg.
Application September 16, 1950, Serial No. 185,281
1 Claim. (Cl. 170—159)



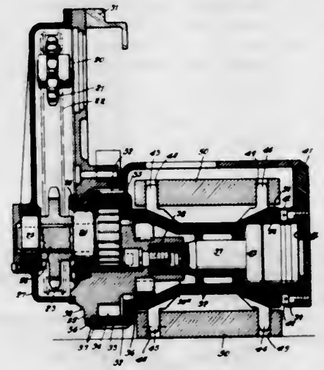
A propeller comprising a cylindrical hub and a plurality of blades extending from the hub, each of said blades having its leading edge starting from a point near one longitudinal end of the hub and its trailing edge starting from a point near the other longitudinal edge of the hub, the working surface of each of said blades being such that any element thereof defined by the intersection of a plane normal to the axis of the hub is a straight radial line beyond the center of the blade and a curved line tangent to the outer surface of the hub inwardly from the center of the blade, the point of tangency being rearward with respect to the direction of rotation from a plane including the axis of the hub and the straight radial portion of the element.

2,667,937
WALKING VEHICLE
John T. Tucker, Oxnard, Calif.
Application May 24, 1948, Serial No. 28,961
8 Claims. (Cl. 180—8)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a walking vehicle having a pair of bodies with means for moving them longitudinally relative to each other, a rail pivoted to one of said bodies adjacent the other of said bodies for oscillation in a vertical plane, guide rail means mounted to said one body beyond the end of said pivoted rail, said guide rail means being in a plane approximately level with the pivot point of said pivoted rail, and a horizontal stud extending from the side of said other body and a roller on said stud riding against said pivoted rail and said guide rail means for relative lifting and lowering movement between said bodies as they are moved longitudinally relative to each other.

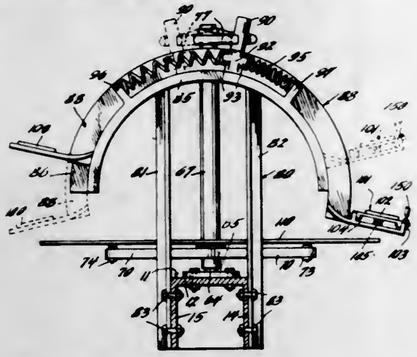
2,667,938
DRIVE MECHANISM FOR TRACTOR TREADS
Frank Cartlidge, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 26, 1952, Serial No. 278,650
1 Claim. (Cl. 180—9.1)



In a drive mechanism for tractor treads, a hollow tractor tread sprocket having peripheral sprocket teeth for engaging a tractor tread, and an enlarged concentric end portion spaced axially beyond said sprocket teeth, the periphery of said enlarged end portion having a traction surface of substantially the same diameter as the outer ends of said sprocket teeth, said enlarged portion also having an internal gear therein, a housing for supporting said sprocket, including bearings at opposite ends thereof, disposed inwardly of said internal gear, and a drive shaft for said sprocket journalled in said housing on

an axis offset above the axis of said sprocket, and having a spur gear fixed thereon meshed with said internal gear, said housing also including an arcuate bearing member having fitting engagement in the enlarged end portion of said sprocket for sealing the latter.

2,667,939
CONTROL FOR VEHICLES
Edward Lincoln Purkey, Oklahoma City, Okla.
Application October 8, 1951, Serial No. 250,711
8 Claims. (Cl. 180—78)



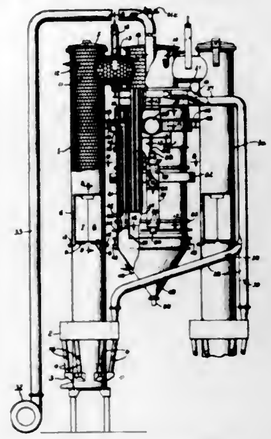
1. In a steering installation for motor vehicles which are provided with a frame, at least one non-steerable ground wheel and at least one steerable ground wheel supporting said frame, an engine with controlling means therefor, transmission means from said engine to said non-steerable ground wheel, and means connecting said steerable wheel to said frame for swinging movement about a vertical axis, in combination, a rigid member disposed transversely of said frame in a position accessible to the operator's feet, means for mounting said member on said frame for limited oscillation about a horizontal axis, a foot rest at one end of said member and a treadle pivoted intermediate its ends to the opposite end of said member for movement in a vertical plane, steering connections between said member and said steerable wheel for transmitting movement to the latter when the member is oscillated about said horizontal axis, and means operatively connecting said treadle with said engine controlling means for transmitting actuating movement thereto when said treadle is rocked.

2,667,940
JET TORPEDO EXHAUST SILENCER OR MUFFLER FOR INTERNAL-COMBUSTION ENGINES
Gordon W. Gallihugh, Linden, Mich.
Application October 18, 1951, Serial No. 251,855
5 Claims. (Cl. 181—49)



1. An exhaust silencer or muffler, comprising in combination, a housing, and a plurality of units within the housing secured to the walls thereof, each unit consisting of a baffle funnel and a recoil cup; each baffle funnel consisting of a hollow member having a gas receiving end which is about as large as the inside of the housing and a gas discharging end which is of reduced dimensions; each recoil cup being spaced from the baffle funnel lengthwise of the housing and also surrounding the part of the baffle funnel which is of reduced dimensions; each recoil cup having a wall which receives the gases discharged from the baffle funnel of the unit and deflects said gases outwardly; the aforementioned wall of each recoil cup being convex and directly in front of the gas discharging end of said hollow member and a circular series of openings provided in the said wall of the recoil cup near its portion of greatest lateral dimensions for discharge of said deflected gases.

2,667,941
UNITARY HEAT EXCHANGE AND PARTICLE COLLECTING APPARATUS FOR COMBUSTION GASES
Regner A. Ekstrom, Jr., Harvey, Ill.
Application February 24, 1951, Serial No. 212,625
6 Claims. (Cl. 183—7)



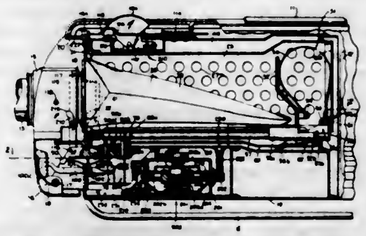
1. A unitary heat exchange and particle collecting apparatus suitable for cooling and purifying the combustion gases from a cupola, which comprises, in combination, a drum having connected therewith a gas inlet duct, a cap having sealed relation with the top of the drum, a plate forming the bottom of the drum, a plurality of hot blast tubes extending downwardly from the plate, a header in which the lower ends of the tubes are fastened, a cylinder around the tubes and extending below the lower ends thereof, said header forming a partition in the cylinder, a shell around the cylinder forming an annular space therebetween, a discharge hopper for the shell, an outlet for the hopper, spray means below said header, an annular gas chamber around the top of the shell for receiving gas passing up through said space, an outlet from the gas chamber to atmosphere, electric precipitator means positioned in the annular space between the cylinder and the shell including collector plates and electrode wires, means for supplying current to the wires, means for rapping the plates and the wires to discharge material collected thereon, an air inlet pipe extending centrally down through the drum and cylinder and terminating above the bottom thereof, a plurality of baffle plates between the air pipe and the cylinder having openings therethrough and forming a tortuous passageway for air passing upwardly through the cylinder, an air chamber at the top of the cylinder for receiving air therefrom, and means for conducting resulting heated air from said chamber.

2,667,942
ELECTRIFIED, CENTRIFUGAL GAS CLEANING DEVICE
Harry A. Wintermute, Plainfield, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application November 7, 1951, Serial No. 255,168
8 Claims. (Cl. 183—7)



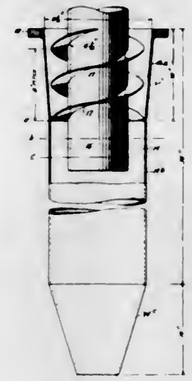
1. An electrified, centrifugal gas cleaning device comprising a tubular conduit member providing a gas swirling and electrifying chamber, said conduit member having an open gas inlet end and an open gas outlet end, a discharge tube having an open gas inlet end and an open gas outlet end and having an outside diameter smaller than the inside diameter of said tubular conduit member, said discharge tube projecting into the outlet end of said tubular conduit member and being positioned coaxially with respect to the latter, a skirt member carried on the outside of said discharge tube and flaring outwardly towards the outlet end of said tubular conduit member and providing therewith a restricted annular skimming orifice, a first set of annularly arranged swirling vanes positioned against the inner wall of said tubular conduit member near the inlet end thereof, a second set of annularly arranged swirling vanes positioned against the inner wall of said tubular conduit member intermediate said first set of vanes and the inlet end of said discharge tube, a first disc-like discharge electrode insulatedly supported in the space between said first and second sets of swirling vanes, and a second disc-like discharge electrode insulatedly supported in the space between said second set of swirling vanes and the inlet end of said discharge tube, said discharge electrodes being of substantial diameter and having discharge points spaced from the inner wall of said tubular conduit member and cooperating therewith to provide corona discharge when a source of high electrical potential is connected thereacross.

2,667,943
VACUUM CLEANER
Arnold H. Beede, Stamford, Conn., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application November 13, 1951, Serial No. 256,100
12 Claims. (Cl. 183—37)



1. In a vacuum cleaner, a casing having an opening, a movable cover for said opening, releasable means for retaining said cover closed, means for producing flow of air through said casing, a dust separating member in said casing in the path of air flow therethrough, pneumatic means for operating said cover releasing means, valve means for controlling said pneumatic means, a member movable in response to difference in pressure at opposite sides of said dust separating member, and means for mechanically transmitting motion of the second mentioned member to said valve to actuate the latter.

2,667,944
CYCLONE SEPARATOR
Joe Crites, Larchmont, N. Y., assignor to Combustion Engineering, Inc., New York, N. Y., a corporation of Delaware
Application December 10, 1949, Serial No. 132,319
8 Claims. (Cl. 183—81)

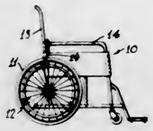


1. In a cyclone separator for separating particles of solid matter from gases carrying the same, an outer open ended tube having its inlet end portion tapered inwardly and a straight portion with which said tapered portion merges, an inner open ended tube of smaller diameter extending part-way into said outer tube and having its inlet end terminating at a point beyond the point of juncture of said tapered portion with said straight portion but short of the outlet end of the outer tube, and a two-flight helix carried by said inner tube terminating short of the inlet end of said inner tube the flights of which have a diameter slightly less than the internal diameter of said straight portion and such as to provide a clearance between the helix and the wall of the outer tube progressively increasing in a direction toward the inlet end of the outer tube and a length comparable with that of the tapered portion of the outer tube, the inner tube being positioned with respect to the outer tube such that the bottom end of the helix lies in a position in the region defined by a point substantially opposite the point of juncture between the tapered portion and the straight portion of the outer tube and a point therebelow at which the helix would have substantially 360° running contact if the flight actually had contact with the straight portion of the outer tube.

2,667,945
SAFETY DEVICE FOR INVALIDS' WHEEL CHAIRS
Ruth A. Caldeira, Brooklyn, N. Y.
Application March 10, 1950, Serial No. 149,854
6 Claims. (Cl. 188—2)

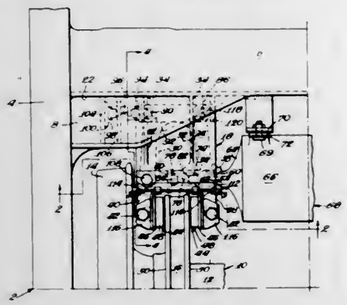
1. In combination with an invalid's wheelchair including spoked wheels and side frame members; a braking device comprising a clamp

mounted on one of said side frame members, a pivot member on said clamp, a locking arm pivoted at one end on said pivot member and formed with a hooked free end loosely projecting axially between a pair of spokes on the adjacent one of said wheels in one pivoted operative position of said arm, means on said clamp frictionally engaging the pivoted end of said arm and resisting



the swinging of the latter, means on said arm receiving a spoke bearing against said arm when the latter is in said one operative position and resisting pivoting of said arm from said one position, and means on said arm engageable with one of said side frame members when said arm is in another pivoted inoperative position yieldably retaining said arm in said inoperative position.

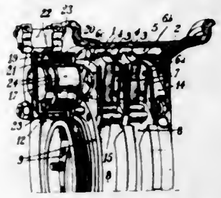
2,667,946
ROTOR BRAKE
Wesley A. Helsten, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application August 25, 1949, Serial No. 112,394
14 Claims. (Cl. 188—59)



13. In a brake arrangement, brake rigging including live and dead levers pivotally interconnected at certain of their ends, support means for said levers, release means for said levers comprising spring means interposed and reacting between said support means and said dead lever, said spring means being operative to move said dead lever to release position thereof and to urge said live lever to engage said support means, said spring means being operative to restrain free movement of the rigging.

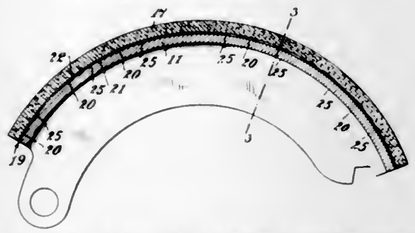
2,667,947
WHEEL EQUIPPED WITH DISK BRAKE
René Lucien, Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland, a corporation of Switzerland
Application January 3, 1951, Serial No. 204,198
Claims priority, application France June 7, 1950
2 Claims. (Cl. 188—152)

1. A vehicle wheel having a brake of the disc type comprising: a rotatable wheel body, a series of annular friction discs rotatable unitarily with the wheel body and axially movable relatively thereto; at least one group of non-rotatable brake shoes having brake linings and being arranged alternately with the discs and each engaging a relatively reduced area of the discs; a stationary brake structure comprising a cylindrical sleeve co-axial with the bearings of the wheel and positioned between the discs and shoes and the bearings and surrounding the latter throughout the axial length thereof; a flange extending radially from the sleeve at one end thereof; a support plate secured to the flange; a brake-actuating power relay mounted on the



support plate in axial alignment with the group of brake shoes and comprising a cylinder having a closed end and a piston slidable in the cylinder in response to the supply of fluid under pressure to the interior of the cylinder; and a brake backing plate rigidly secured to the other end of the sleeve in alignment with the power relay and having a brake lining thereon; the piston being fixed at its end opposite the closed end of the cylinder to the adjacent one of the non-rotatable brake shoes.

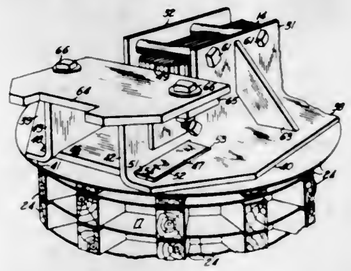
2,667,948
BRAKE SHOE ASSEMBLY
Sydney G. Tilden, Stewart Manor, N. Y., assignor to The Permafuse Corp., a corporation of New York
Application May 26, 1947, Serial No. 750,398
1 Claim. (Cl. 188—234)



In a brake assembly having a brake drum, a substantially arcuate brake shoe and a friction material segment of uniform density and uniform resistance to pressure in faying relationship with, and interposed between the said brake drum and the said brake shoe, the combination therewith of an adhesive tape, said adhesive of said tape adhering to the opposed brake shoe and segment surfaces, said tape being substantially incompressible, and non-shiftable to said adjacent brake shoe and segment surfaces on the application of radial forces between said brake drum and said brake shoe when said brake shoe is applied, said tape having surfaces in faying relationship with the surfaces of said brake shoe and said segment circumferentially and axially of the brake shoe and from end to end and side to side thereof, said tape having a series of openings circumferentially disposed in relation to the axis of said drum and shoe, closely adjacent to each other and completely surrounded by said incompressible portions of said tape and of a size adapted to receive portions of said segments flexing through said openings in pressed contact against said brake shoe, whereby

said radial forces are prevented from radially moving the segment portions adjacent said tape in a radial direction of said tape and said radial forces cause portions of said segment radially adjacent of the openings in said tape to yield to said forces by flexing the portions of said segment radially adjacent said openings into said openings.

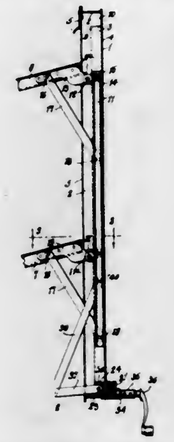
2,667,949
CLAMPING ASSEMBLY HAVING SELF-HELD PRESSURE PLATES
Leslie A. Shupe, Pittsburgh, Pa., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application December 15, 1951, Serial No. 261,789
8 Claims. (Cl. 189—34)



1. A support including a pair of members spaced apart, each of said members having a portion extending laterally away from the other member, each of said members having a notch therein; the notch in each member defining a recessed surface disposed in a plane substantially normal to said portion of the member, an edge spaced from said recessed surface and recessed from said portion of the member, and sectional surfaces spaced apart and in planes substantially normal to said recessed surface; and an element extending between said members, said element having opposite ends thereof confined between said recessed surfaces of said two members, said element having opposite sides thereof confined at one end portion of the element between said spaced sectional surfaces of one said member and at the other end portion of the element between said spaced sectional surfaces of the other said member, said element having one surface abutted at one end portion thereof by said edge of one said member and abutted at the other end portion thereof by said edge of the other said member, said element having an opposite surface disposed to abut an object, whereby said element coacts with said members and said object to prevent its being displaced from association with said members and said object and combines with said members to abut said object.

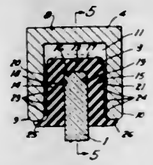
2,667,950
AWNING TYPE WINDOW
Joseph C. Bancroft, Jamestown, N. Y.
Application October 28, 1949, Serial No. 124,054
9 Claims. (Cl. 189—67)

1. A window construction of the character described comprising, a frame of substantially channel shape, a slide bar mounted for vertical sliding movement within a vertical side portion of the frame, a sash having an offset arm fixed at one end to said sash and pivotally attached at its other end to the slide bar at the rear of the sash, a coupling link pivoted at one end to the sash and pivoted at its lower end to the frame, the frame having a lower channel containing a horizontally-extending rocking shaft, an arm at the end of said shaft, an operating link having a lower end pivotally attached to said arm and an upper end pivotally attached to the



slide bar, the pivots for the lower end of the coupling link, for the upper end of the operating link and for the offset arm being all located to the rear of the sash, and gearing located substantially centrally of said shaft for imparting rotative movement to the rocking shaft.

2,667,951
PANE RETAINER
George R. Gall, Cleveland, Ohio
Application June 10, 1950, Serial No. 167,401
6 Claims. (Cl. 189—78)

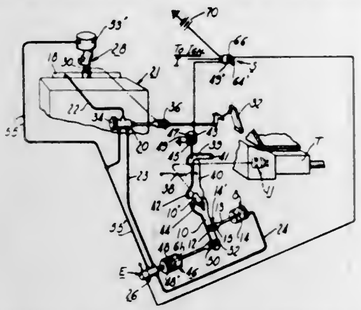


2. The combination of a rigid channel member, a sheet member, and means for holding the edge of said sheet member within the channel of the rigid channel member comprising a rubber-like strip closely embracing the edge of said sheet member and closely embraced within the channel of said rigid channel member, said strip having a plurality of ribs on opposite sides thereof deflected against said channel member in the direction of entering motion of said strip relative to said channel member.

2,667,952
CLUTCH CONTROL MECHANISM
George O. Ainsworth, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 24, 1949, Serial No. 112,126
10 Claims. (Cl. 192—.07)

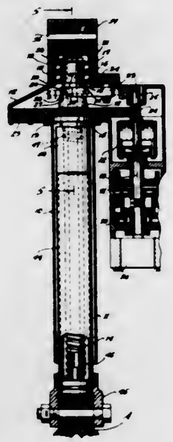
1. In an automotive vehicle provided with an internal combustion engine, a change speed transmission and clutch means for interconnecting or disconnecting the engine and transmission; power means for effecting a disconnecting operation of the clutch means including a fluid pressure operated motor, said motor being op-

erative to effect said disconnecting operation when the engine is operating, valve means for controlling the operation of the motor, and means for controlling the operation of said valve means; together with other power means for automati-



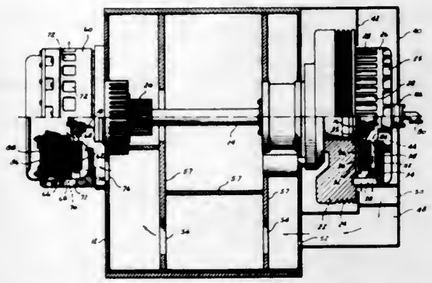
cally effecting a disconnecting operation of the clutch means, said other power means including a spring, a fluid pressure operated motor for cocking said spring, and means for controlling the operation of the latter motor.

2,667,953
LANDING GEAR ACTUATOR
Owen H. Griswold, Ridgewood, N. J., assignor to Air Associates, Incorporated, Teterboro, N. J., a corporation of New Jersey
Application March 18, 1949, Serial No. 82,068
6 Claims. (Cl. 192—3.5)



1. In a landing gear actuator, a high pitch lead screw mounted for turning movement in opposite directions, a nut threadedly mounted on said lead screw for axial movement longitudinally of the screw upon rotation of the screw, means carried by said nut operatively connecting the same with a landing gear for raising and lowering the same with the movement of said nut, driving means for turning the screw in one direction for raising the landing gear to retracted relation, said driving means including a clutch which is open when the landing gear is in retracted relation, and said nut by the weight of the landing gear thereon being adapted to rotate said screw to lower the landing gear from retracted to projected relation.

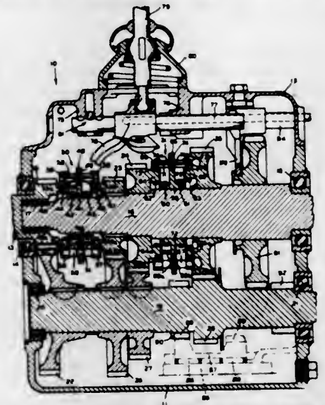
2,667,954
AIR-COOLED PRESS BRAKE AND CLUTCH ASSEMBLY
Philo H. Danly, Hinsdale, George I. Danly, Elmhurst, and Vasil Georgeff, Chicago, Ill., assignors to The Danly Machine Specialties, Inc., Chicago, Ill., a corporation of Illinois
Application October 27, 1949, Serial No. 123,952
9 Claims. (Cl. 192—18)



1. A clutch and brake assembly for power presses including in combination a press frame, a brake housing carried by the frame outboard on one side thereof, a shaft, a brake disk secured to the shaft, brake plates positioned in the brake housing adapted to immobilize the brake disk and the shaft, a continually rotating flywheel positioned outboard of the press frame on the other side thereof, a clutch housing, means for continually rotating the clutch housing from the flywheel, a clutch disk secured to the shaft and positioned within the clutch housing, clutch plates carried by the clutch housing adapted to engage the clutch disk to rotate the shaft upon release of the brake, a centrifugal fan carried by the flywheel, a stationary casing surrounding the fan and carried by the frame, a passageway providing communication between the atmosphere and the intake of the fan, heat exchange means carried by the clutch plates positioned in said passageway, a communicating duct between the fan casing and the brake housing, said brake housing being formed with air discharge openings, and heat exchange means carried by the brake plates adapted to be cooled by the air introduced into the brake housing from said communicating duct.

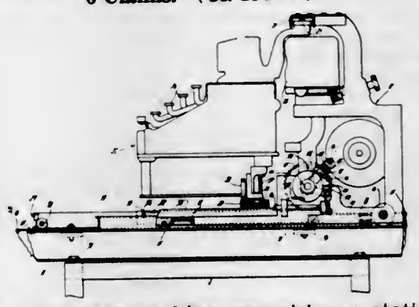
2,667,955
SYNCHRONIZER
Leo A. Bixby, Niles, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application July 22, 1950, Serial No. 175,365
6 Claims. (Cl. 192—53)

1. For use in a transmission having a shaft and a gear rotatably mounted about the axis of the shaft and with the gear having jaw clutch teeth and a friction clutch element, the combination of a clutch and synchronizer assembly for selectively coupling the gear to the shaft comprising, a clutch collar member axially slidable on the shaft and mounted for rotation therewith adjacent the gear, said clutch collar member having jaw clutch teeth adapted to cooperate with the jaw clutch teeth on the gear, said clutch collar member having first and second openings formed therethrough parallel to the shaft, axially movable friction clutch elements one of which is adapted to cooperate with the friction clutch element on the gear, pins disposed through the first openings in said clutch collar member and rigidly connecting said axially movable friction clutch elements, means formed integrally with said pins for blocking axial movement of said clutch collar member relative said axially movable friction clutch elements when the latter and said clutch collar member are rotating asynchronously, longitudinally split pin assemblies disposed through the second openings in said clutch collar member, said axially movable friction clutch elements



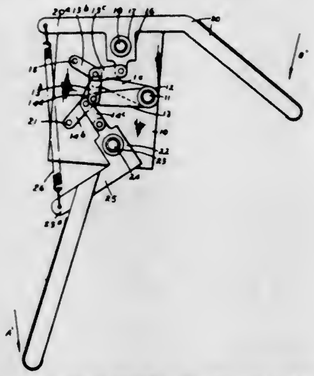
having recesses formed therein for receiving the ends of said split pin assemblies, and resilient means between the portions of said split pin assemblies for spring loading the latter upon initial axial movement of said clutch collar member relative said axially movable friction clutch elements for effecting snap engagement of the jaw clutch teeth of the clutch collar member with the jaw clutch teeth of the adjacent gear.

2,667,956
BUSINESS MACHINE WITH OPTIONALLY MOVABLE HEAD OR PLATEN
Oscar J. Sundstrand and Oscar W. Swanson, West Hartford, Conn., assignors to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application December 20, 1951, Serial No. 262,614
6 Claims. (Cl. 197—2)



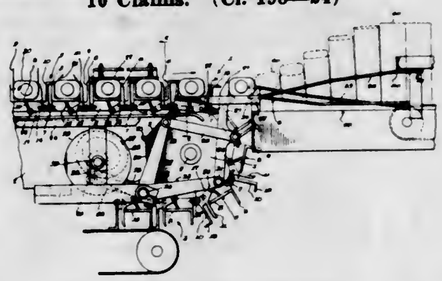
1. A business machine comprising a stationary frame, a flat platen mounted for line-space movement on said frame, a type carriage support mounted for line-space movement on said frame, line-space mechanism comprising a rack fixed to said platen and a gear on said type carriage support, said gear meshing with said rack, means for imparting rotary movement to said gear, and selectively operable means for locking either the platen or the type carriage support to said stationary frame whereby rotation of said gear will cause the unlocked one of said platen or type carriage support to move.

2,667,957
CONVEYER CONTROL APPARATUS
Robert Sheldon Coleman, Burton-on-Trent, England
Application June 10, 1948, Serial No. 32,229
3 Claims. (Cl. 198—21)



1. A control apparatus for two converging conveyor lines comprising a frame, two arms pivotally mounted on the frame, each arm being adapted when the apparatus is placed at the junction of the converging conveyor lines to extend across one of the conveyor lines, a pair of links, a pivotal connection between one of the links and one of said arms, said other link being pivoted to the link pivoted to the arm and to a fixed pivot on the frame, a second pair of links, a pivotal connection between one of the links and the other of said arms, said other link being pivoted to the link pivoted to the arm and to another fixed pivot on the frame, and lever means swingable about a common axis interconnecting said first and second pair of links arranged so that when one of the arms is moved aside by the passage of traffic along the conveyor line controlled by said arm, the other arm is locked immovably so that traffic could not pass along the conveyor line controlled by said last named arm.

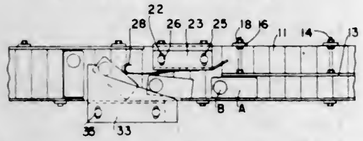
2,667,958
CONVEYING AND TRANSFERRING MECHANISM
Clarence J. Malhiot, Oak Park, Ill., assignor to F. B. Redington Co., Chicago, Ill., a corporation of Delaware
Application February 26, 1948, Serial No. 10,962
10 Claims. (Cl. 198—24)



1. A wrapping machine for wrapping or partially wrapping articles in wrappers to form a package, comprising movable conveying and transferring mechanism including hingedly connected buckets movable along a predetermined path, each bucket including spaced walls and

an intermediate shiftable wall to receive and support a package which is arranged between one of said spaced walls and the shiftable wall, yieldable means normally urging said shiftable wall to clamping position against the package, cam means positioned adjacent the bottom of a bucket and engageable with a part of said shiftable wall to move said shiftable wall to discharge the package from a bucket when a bucket arrives at a predetermined discharge position, and means engageable with a package and movable in the same direction as said conveying means to move the package from the bucket at a predetermined elevation when the shiftable wall has been moved.

2,667,959
CONVEYING AND POSITIONING MECHANISM
Charles F. Rogers, Racine, Wis., assignor to S. C. Johnson & Son, Inc., Racine, Wis.
Application September 7, 1951, Serial No. 245,569
4 Claims. (Cl. 198—33)



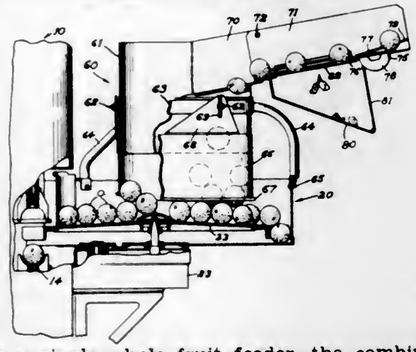
1. A conveying and positioning mechanism for oblong-shaped containers having elements projecting from the tops thereof comprising an endless platform conveyor for carrying the containers, means for rotating said containers on said conveyor comprising a deflector and a resilient retaining means, said deflector being disposed horizontally over said conveyor in the same plane as that in which the projecting elements of said containers move, an engaging edge on said deflector extending obliquely over said conveyor from one side thereof whereby said projecting elements are directed toward the opposite side of said conveyor, said resilient retaining means lying above said conveyor in a position generally opposite the deflector and sufficiently high to contact the upper half of said containers, said retaining means being adapted to hold the containers with their projecting elements in contact with the deflector and to rotate the same about their projecting elements as the latter move along a line defined by the engaging edge of said deflector.

2,667,960
APPARATUS FOR SPACING ARTICLES ON CONVEYERS
Edward J. Williams, Burbank, Calif., assignor to Read Standard Corporation, a corporation of Delaware
Application December 17, 1951, Serial No. 262,075
9 Claims. (Cl. 198—34)



1. In an apparatus for spacing articles, the combination of: a supporting structure providing a path having upstream and downstream ends; conveyor means carried by and movable relative to said supporting structure for moving articles in succession along said path toward said downstream end thereof; a plurality of spacing means carried by said supporting structure for spacing articles apart along said path; a plurality of actuating means for actuating said spacing means, respectively, said actuating means being movable into engagement with said spacing means, respectively; and rotatable selector means carried by said supporting structure and carrying said actuating means for moving said actuating means into engagement with said spacing means, respectively, successively.

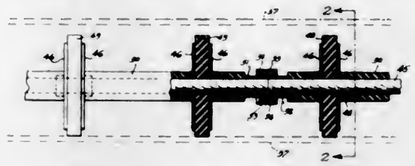
2,667,961
FEEDER FOR WHOLE FRUIT JUICERS
Terrell J. Reese, Elkhart, Ind., and Nyal B. Wood, Lakeland, Fla., assignors to Food Machinery and Chemical Corporation, a corporation of Delaware
Application April 2, 1948, Serial No. 18,628
1 Claim. (Cl. 198—56)



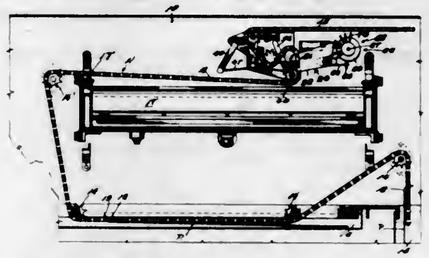
In a single whole fruit feeder, the combination of: a hopper having a floor and side walls; a feeder wheel, rotatably mounted in said hopper in spaced relation with said floor, individual fruit holding holes being provided in a peripheral portion of said wheel, said holes opening downward to permit individual fruit entities contained therein to rest on said floor, there being an opening in said floor through which individual fruit entities contained in said holes are discharged successively; a tube disposed over said feeder wheel for delivering whole fruit downwardly into said hopper; means for supporting said tube in said position; and a telescopic mouth section mounted on said tube with its lower edge spaced from said feeder wheel a distance approximately equal to the diameter of the fruit being delivered, said mouth section being adjustably related to said feeder wheel to vary the vertical dimension of the opening therebetween through which fruit is fed onto said wheel, said mouth section being elliptical in plan outline, and eccentrically located relative to said wheel with a substantial portion of said mouth section arcuately shaped and disposed in concentric relation with adjacent portions of said hopper side walls.

2,667,962
FLIGHT CONVEYER WITH FLANGED CLAMPING DISKS
Henry W. Hapman, Hickory Corners, Mich., assignor of forty per cent to Hannah Jane Hapman, Hickory Corners, Mich.
Application October 28, 1948, Serial No. 57,048, which is a division of application Serial No. 567,961, December 13, 1944. Divided and this application September 10, 1951, Serial No. 245,921
4 Claims. (Cl. 198—176)

1. A flight conveyor comprising a flexible conveyor element, a series of conveyor flight supporting plates spacedly mounted on said conveyor element, plate-shaped flights secured to said supporting plates, and sleeve members of rubber-like material extending between said flight supporting plates, said flight supporting plates having axially extending portions disposed adjacent said flexible conveyor element, the ends of said sleeve members extending over said axially-extending plate portions.

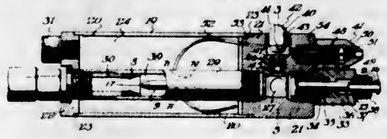


2,667,963
PRINT STRIPPING MECHANISM
Adam N. Rittinger, Rochester, N. Y., assignor to Photostat Corporation, a corporation of Rhode Island
Application November 10, 1951, Serial No. 255,791
11 Claims. (Cl. 198—178)



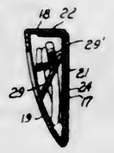
1. In photographic apparatus, a conveyor having means for engaging a marginal edge of a print for moving the latter in a path of travel extending forwardly and then in a reverse direction back upon itself, a stripper for engaging the print in the direction of the movement thereof for removing the print from the conveyor while the latter is moving in the said reverse direction, a pusher finger movably mounted for engaging the print at the portion thereof moved in the said reverse direction to move said portion in a forward direction to straighten said print after being released from the conveyor and means for guiding said finger in the movement thereof.

2,667,964
YARN HANDLING DEVICE
Clarence Edwin Miller, Staunton, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 21, 1949, Serial No. 88,781
9 Claims. (Cl. 203—100)



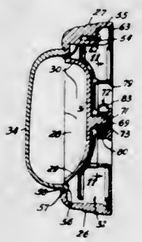
1. A yarn handling device comprising an air inlet tube; an air outlet tube; a passageway between said inlet and said outlet tubes; at the exit end of said outlet tube a diffuser section; and in said outlet tube a suction tube slideably mounted to form with said outlet tube and said diffuser section a variable annulus.

2,667,965
CASE FOR GLASSES
Irvin M. Laibson, Cincinnati, Ohio
Application July 8, 1952, Serial No. 297,632
1 Claim. (Cl. 206—5)



A protective case for glasses adapted to be wrapped about a pair of glasses, the case comprising a substantially rectangular member of resilient paperboard having score lines extending transversely thereof to divide it into an inner front panel, a side panel, a back panel, and an outer front panel hinged together tandemwise at the score lines, the back panel having a triangular tab located substantially centrally thereof, the base of said tab being integral with the back panel and the apex thereof projecting toward the side panel and being adapted to engage the nosepiece of glasses to hold the glasses in the case, and tongue and slot means on said outside front panel and side panel for holding the case closed when a pair of glasses is wrapped therein, the case being substantially triangular in section when the glasses are wrapped therein.

2,667,966
SHIPPING AND DISPLAY CASE FOR SHAVERS AND THE LIKE
Ivar Jepson, Oak Park, and Frank E. Cerveny, Berwyn, Ill., assignors to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application March 9, 1950, Serial No. 148,581
2 Claims. (Cl. 206—16)



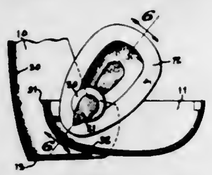
1. A storage and display case for an electrical appliance having a detachable power cord, comprising a body having an upwardly facing recess for the reception of the appliance and a downwardly facing chamber for the reception of said power cord, a cover for said upwardly facing recess to enclose an appliance disposed therein, hinge means hinging said cover to said body, a projection attached to said body extending inwardly of the downwardly facing chamber and having a transverse notch formed in one side thereof, a reel for said cord disposed in said downwardly facing chamber, and releasable latch means on said reel engaged with said notch on said projection detachably and non-rotatably to secure said reel in said chamber.

2,667,967

FRONT OPENING WATCH DISPLAY BOX

Francis E. Blod, Tuckahoe, N. Y., and Alfred M. Blumenfeld, Hackensack, N. J., assignors to The Gruen Watch Company, Cincinnati, Ohio, a corporation of Ohio

Application September 21, 1950, Serial No. 186,072
3 Claims. (Cl. 206—45.13)



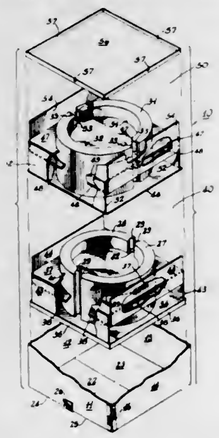
2. A display box for watches and the like comprising a base shell, a drop shell, said shells being pivotally interconnected, a shaft, a watch holder rotatably supported on said shaft, mounting means associated with one of said shells, said shaft being confined within said mounting means to prevent rotation of the shaft relative thereto, said shaft including an aligning bar having a portion of substantially rectangular cross section and a projecting head at its upper edge said shaft being supported in said mounting means so that the head and rectangular portion of said aligning bar extend angularly relative to the shell associated with said mounting means, a spring of generally U-shaped configuration, said spring being rigidly secured to said watch holder, the open end of said spring embracing said aligning bar and being effective to urge said watch holder toward a display position in which said watch holder is angularly disposed with respect to the shell having the mounting means associated therewith.

2,667,968

PACKAGING FOR FRANGIBLE OBJECTS

Mansfield F. Ritchie, Benton Harbor, Mich., assignor to Twin Cities Container Corporation, Benton Harbor, Mich., a corporation of Michigan

Application December 1, 1950, Serial No. 198,639
3 Claims. (Cl. 206—65)



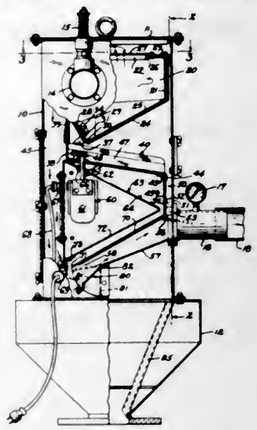
1. An improved package including a pair of frangible, refractory, split fire-pot ring segments, said package comprising a container body having side walls and top and bottom closures, a first inverted tray holding said pair of ring segments in position spaced from the bottom closure of said container body, a second tray resting upon said ring segments and spacing said ring segments from said top closure, and means for holding said ring segments against lateral displacement within the compartment formed by said trays and container and for holding said ring segments in mutually spaced relationship, said means comprising a pair of interfitted U-shaped support sheets in said compartment, each of said support sheets having its substantial plane spaced from the other and having arcuate slots cut therein of such dimension as to closely fit and yieldingly seize said spaced ring segments, one of said support sheets having tabs extending along opposite walls of said container body and bearing against said second tray, and the other of said support sheets having tabs extending in an opposite direction along another pair of opposite walls of said container body and bearing against said inverted tray.

2,667,969

AIR SEPARATOR FOR RECLAIMING ABRASIVES FROM WASTE MATERIALS

Lewis H. Bishop, Burlingame, and Louis W. Tribbett, Santa Monica, Calif., assignors, by mesne assignments, to William H. Mead, Oakland, Calif.

Application October 26, 1950, Serial No. 192,256
20 Claims. (Cl. 209—34)



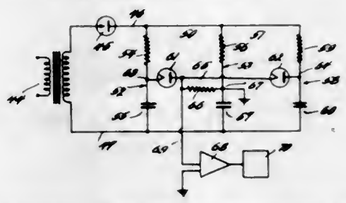
1. A reclaimer for separating waste material and the like from abrasive and the like, including in combination: walls defining a cyclone chamber having an inlet opening through its side wall where a mixture of materials may be introduced in an airstream, the solid materials falling out of said airstream in said chamber, said chamber having an outlet opening for said airstream in its upper end, and a floor sloping toward a bottom opening for solid materials; a perforated basket positioned on a slope with its high end beneath said bottom opening; a slide means beneath said basket to receive the sifted particles falling therethrough; an outlet duct with its inlet opening beneath the lower end of said slide means; a conduit for conducting the airstream from the upper outlet opening of said cyclone chamber to a locus opposite the opening of said duct, where it may pass through the sifted particles falling from said slide, carrying the waste with it into the outlet duct while the abrasive falls below; and a second conduit for conducting the large waste particles that fall off from the low end of said basket into said outlet duct at a point beyond its said opening.

2,667,970

AUTOMATIC LIMIT BRIDGE

Joseph C. Bregar, Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application September 1, 1948, Serial No. 47,202
7 Claims. (Cl. 209—81)



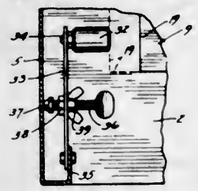
7. In a system for successively testing and sorting impedance elements into low, high, and satisfactory classification groups, a source of current, a first resistor and a low-limit impedance connected across said current source, a second resistor equal in value to the first resistor and an impedance to be tested serially connected across said current source, a third resistor equal in value to the first resistor and a high-limit impedance serially connected across said current source, a pair of rectifiers connected in series between the low-limit impedance and the high-limit impedance, a fourth resistor connected at a point between the two rectifiers to the junction of the second resistor and the impedance to be tested, an amplifier connected to the fourth resistor, and a sorting device connected to and controlled by the amplifier for separating the tested impedance elements into the said three classification groups.

2,667,971

RESILIENT BUMPER STOP FOR SEPARATOR SCREENS

Leonard Johnson, Minneapolis, Minn., assignor to Hart-Carter Company, Minneapolis, Minn., a corporation of Delaware

Application March 7, 1951, Serial No. 214,243
2 Claims. (Cl. 209—320)



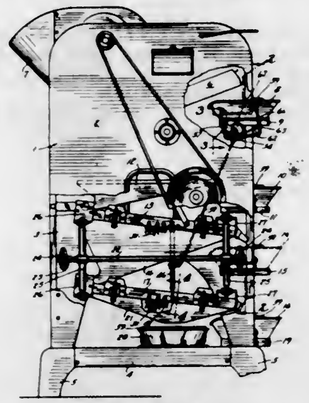
1. In a device of the class described, a supporting frame structure including a pair of laterally spaced side frame elements, a relatively flat separator screen disposed between said frame elements, said screen sloping downwardly in the direction of flow of material carried thereby, means mounting said screen for oscillatory movements transversely of the direction of flow, power driven mechanism for imparting said oscillatory movements to the screen, a rubber-like impact head, resilient means mounting said impact head in the path of oscillatory movement of the screen for movements into and out of one of the limits of oscillatory travel thereof, said resilient means comprising a leaf spring anchored at one end to one of said side frame elements, said impact head being secured to the free end of said spring, and adjustment screw means intermediate the ends of said spring and engageable with the adjacent side frame element for varying the normal position of the impact head with respect to said limit of oscillatory movement of the screen, whereby the impact between said screen and said head during oscillatory movement of the screen may be increased or decreased.

2,667,972

UNATTACHED SCREEN CLEARER WHICH CAN BE RENDERED INOPERATIVE

Leonard Johnson, Minneapolis, Minn., assignor to Hart-Carter Company, Minneapolis, Minn., a corporation of Delaware

Application March 7, 1951, Serial No. 214,244
9 Claims. (Cl. 209—323)



1. In a device of the class described, a shaker frame, a sieve, means mounting said sieve on said shaker frame, means for imparting oscillatory movements to said shaker frame and said sieve, a plurality of cups associated with said frame and underlying said sieve in spaced relation thereto, said cups each having an arcuate bottom and upwardly diverging end walls which are tangential to said bottom, resilient balls in said cups, side wall forming elements in said cups limiting lateral movement of said balls therein, and means on said shaker frame movable into overlying relationship to said cups to retain said balls in the bottoms of their respective cups.

2,667,973

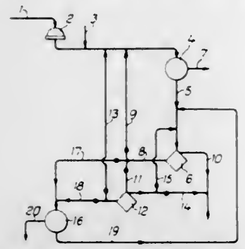
PROCESS FOR RECOVERING PROTEIN FROM PROTEIN-BEARING MATERIAL

Hans Olof Lindgren, Smedslatten, Sweden, assignor, by direct and mesne assignments, of one-half to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden, and one-half to Imperial Chemical Industries, Limited, London, England, a corporation of Great Britain

Application January 18, 1949, Serial No. 71,486
4 Claims. (Cl. 210—63)

1. In the recovery of protein from protein-bearing material having some of the protein dissolved in a liquid at a certain pH-value, the process which comprises feeding the solution through a filtering zone to remove from the solution the main part of the undissolved substances therein, centrifuging the filtrate from said zone to separate a sludge concentrate therefrom, filtering said

sludge concentrate in a separate filtering zone, and mixing the filtered liquid from said last zone with the liquid passing from the first filtering



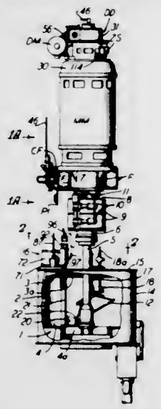
zone and fed to the centrifuging step, while separately discharging from the second filtering zone the impurities separated therein.

2,667,974

HEAVY CYCLICAL CENTRIFUGAL MACHINE

Joseph Hertrich, Hamilton, Ohio, assignor to The Western States Machine Company, Hamilton, Ohio, a corporation of Utah

Application June 14, 1949, Serial No. 99,040
15 Claims. (Cl. 210—70)



2. In a heavy cyclical centrifugal machine, the combination comprising a solids-retaining basket carried on a driving shaft, a solids discharger having an elongated shoe swingable horizontally inside the basket so as to move the shoe tip out to and in from the basket side wall, a rotary prime mover operative upon said shaft in one direction for bringing the basket to a high centrifuging speed, and rotary driving means operative upon the shaft at a low speed in the opposite direction for bringing and holding the basket to slow reverse rotation suitable for operation of said discharger, said shoe extending in said one direction so that it cannot dig into solids rotating with the basket in that direction

---

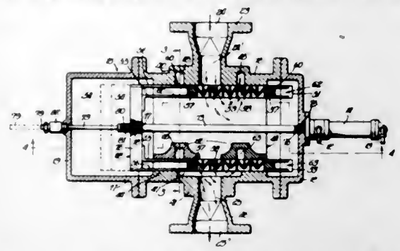
2,667,975

SELF-CLEANING STRAINER

Rudolph V. Seaholm, Chicago, Ill.

Application March 3, 1950, Serial No. 147,460
16 Claims. (Cl. 210—152)

1. In a straining apparatus, a housing having intake and discharge passages and means defining a path of liquid flow therebetween, a screen guided for movement in said housing transversely of said path of flow of liquid, backwash means in said housing including waste channels disposed down stream of said screen and on the side thereof toward said intake passage, said channels being spaced from one another on opposite sides of said path of flow, said channels opening to the housing interior in receiving relation to liquid flowing reversely through the screen, said screen comprising a generally planar liquid-pervious straining unit of predetermined area mounted in sliding engagement with the interior of said housing to pass across the opening of said waste channels there-



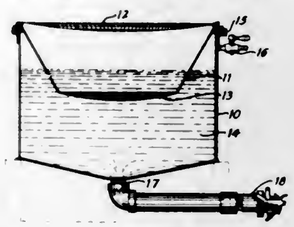
to, and imperforate blocking elements fixed to either side of said straining unit which are spaced from one another in accordance with the spacing of said waste channels and are moved periodically into blocking alignment with the latter, and means to move said screen relative to said backwash means to bring said straining unit and blocking elements in successive alignment with said backwash channels, said blocking elements each being of a size to cover the respective channels and interrupt backwash thereto when so aligned therewith.

2,667,976

PAINT STRAINER

Max Weidner, Racine, Wis., assignor to S. C. Johnson & Son, Inc., Racine, Wis.

Application January 16, 1948, Serial No. 2,599
1 Claim. (Cl. 210—156)



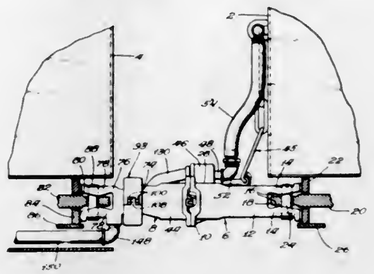
An improved method for straining paint, comprising passing a charge of unstrained paint through a straining vessel into a receptacle, having an air-tight juncture with said vessel, to a level within said receptacle above the point at which said paint enters the receptacle through said vessel, releasing the air entrapped above the strained paint between the inner periphery of said receptacle and the outer periphery of said straining vessel, immediately thereafter closing the means for said release of air and discharging the strained paint from said receptacle while introducing additional unstrained paint into said receptacle through said vessel at a rate sufficient to maintain the paint level in said receptacle above the level at which said paint entered said receptacle through said straining vessel.

2,667,977

ROTATABLE CAR AND TRAIN-LINE COUPLER ARRANGEMENT

Frank H. Kayler, Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application November 3, 1947, Serial No. 783,692
10 Claims. (Cl. 213—76)



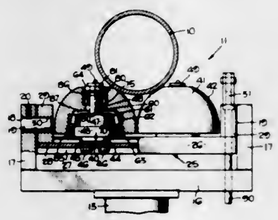
1. In a car coupler, the combination of a head portion to couple to a companion head, a draw bar portion adapted for connection to an associated car, said portions being rotatable relative to each other, and means for connecting said portions and holding the same against disassembly comprising abutting radially extending members on said portions, a clamp ring surrounding and embracing said members, and means for releasably holding said members against rotation relative to each other comprising a latch adjacent the periphery of each member having one end pivoted to said clamp ring and having a portion at its other end receivable within a complementary notch in the associated member, and spring means compressed between said ring and each latch intermediate the ends thereof for rotating the respective latches on their pivots and urging said portions thereof toward said flanges and into said notches therein.

2,667,978

TWO-WAY PIPE ROLLER REST

Whetstine Buck Pridy, Long Beach, Calif.

Application July 31, 1951, Serial No. 239,547
6 Claims. (Cl. 214—1)



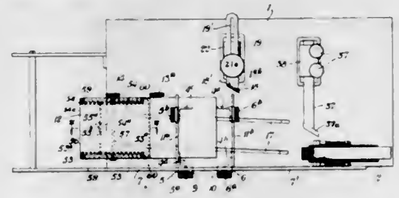
1. In a two-way pipe roller rest, the combination of: a cradle base including posts extending upwardly therefrom; a cradle including a longitudinal member and arms extending upwardly from opposite ends thereof, said arms having aligned apertures; aligned pins mounted on said posts for extending into said apertures to pivotally mount said cradle on said base; a pair of bearing mandrels mounted on said longitudinal cradle member in parallelism with said arms so that the axes of said mandrels intersect the axis of said pins; a pair of hemispherical rollers rotatably mounted on said mandrels, the center points of the hemispherical faces of said rollers lying substantially at the points of intersection of the axes of said mandrels with the axis of said pins; and means to optionally set said cradle with said mandrels disposed either vertically or horizontally.

2,667,979

APPARATUS FOR FEEDING BOOKS AND THE LIKE BODIES IN SUCCESSION FROM A STACK OR TIER THEREOF

Lionel John Bryant Rushent French, London, England, assignor to The Book Machinery Company Limited, London, England, a British company

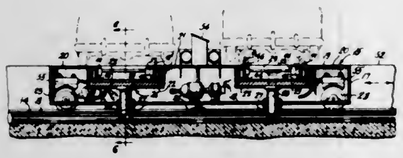
Application September 30, 1948, Serial No. 52,064
Claims priority, application Great Britain October 2, 1947
10 Claims. (Cl. 214—8.5)



1. Apparatus for feeding books or like bodies from a supply source to a glueing and lining or other appropriate treatment station, comprising a table with a hopper adapted to accommodate a stack of books or the like work, means to adjust the hopper to accommodate different dimensions of the work, a conveyor with the table spaced in advance of the hopper, a thrust head member reciprocating along the table top beneath the hopper towards and away from the conveyor, a relatively raised feed head carried by one end of said thrust head and having an upper surface which in the forward position of the thrust head is beneath the hopper to support the stack of books and at the retracted or rear position of the thrust head is positioned in rear of the hopper with the relatively lower part of the thrust head beneath the hopper so that the lowermost book drops on to the thrust head, an abutment displaceable translatively across the thrust head member in advance of the feed head and adapted to engage in succession the work-pieces delivered into the forward part of the thrust head to prevent their return towards the hopper with the thrust head whereby the workpieces are caused to drop on to the table upon retraction of the thrust head, a "knock-up" gauge member displaceable translatively across the table between the thrust head member and the conveyor and adapted to "knock-up" the work into alignment with the conveyor, and means to adjust the operative terminal positions of the said displaceable abutment and said "knock-up" member to allow for different dimensions of work, including a guide for the work at the entry end of the conveyor, means to operate said "knock-up" member in synchronism with the work feeding means to "knock-up" the work against the said guide and also to "knock-up" the work against its trailing edge as it enters the conveyor, the said gauge member for knocking-up the work and the abutment for preventing the work on the thrust head from being carried away from the conveyor comprising a pair of arms extending across the top of

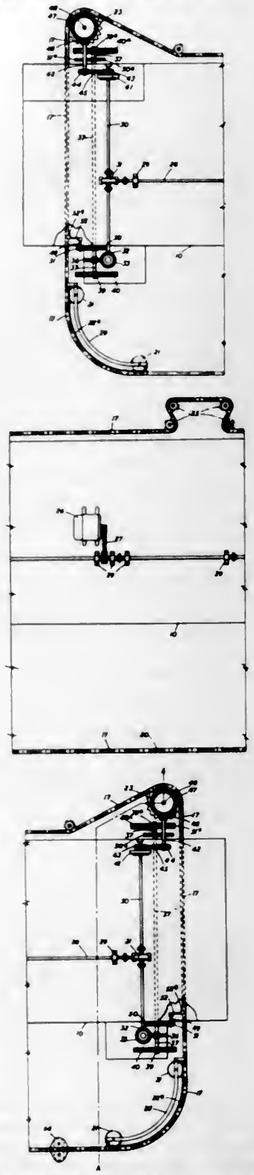
the table, a head carried at one end of each arm to engage the work, supports for said arms, means to adjust said arms lengthwise through said supports, and means provided with said supports to fix the arms relatively thereto, openings in the table top through which said supports project, carrier members for said supports, guides beneath the table top in which said carrier members slide, a prime mover, a rotary cam member driven from said prime mover, a pair of rocker arms through the medium of which said cam member actuates said slidable carrier members, and spring means yieldingly opposing said pair of rocker arms and maintaining operative connection between the said support members and the rocker arms.

2,667,980
SEMIAUTOMATIC PARKING GARAGE BUILDING
Melvyn H. Dawson, Coral Gables, Fla.
Application January 28, 1952, Serial No. 268,497
3 Claims. (Cl. 214—16.1)



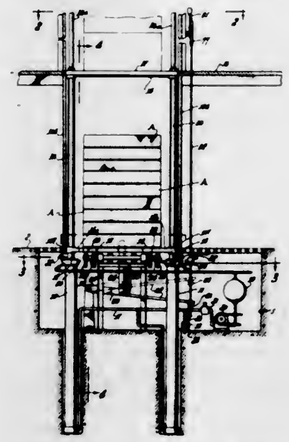
1. Parking garage comprising a building having superposed stories each having lateral aisles with floors at a common relatively high level, for parking, and a central aisle contiguous to said lateral aisles having a floor at lower level, defining a runway, an elevator shaft intersecting each of said lateral aisles on one side of said runway and contiguous thereto, an elevator in said shaft, a railway extending longitudinally through each runway, a wheeled carriage for each runway mounted on said railway, movable forward or backward and capable of being stopped in front of said elevator shaft and at any point in front of said high level floor, a hoist on said carriage movable vertically, fluid pressure means for operating said hoist, a platform on said hoist sufficiently narrow to pass between the wheels of an automobile and sufficiently long to support the automobile beneath the rear axle and the front wheel supporting means, said platform being extensible beyond said carriage at either side thereof in a direction perpendicular to the direction of movement of said carriage, electrically actuated means for extending and retracting said platform, an electric motor on said carriage geared to certain of the wheels of said carriage for propelling the same, wheels at the ends of said platform for supporting the extended end of said platform, fluid pressure means reacting between said platform and wheels to extend them downwardly with load sustaining pressure as the loaded extended platform is elevated by said hoist, an electrically hot rail extending longitudinally through said runway, pick-up means on said carriage engaging said rail for supplying current to said electrically operated instrumentalities and fluid pressure pumps and controls therefor on said carriage for supplying pressure to said fluid pressure operated instrumentalities.

2,667,981
CONVEYER AND TRANSFER APPARATUS FOR THE DRYING OF LEATHER
John Charles Tusting, Harrold, Bedford, and George Overstall, Stubbins, Ramsbottom, England
Application June 19, 1950, Serial No. 168,868
Claims priority, application Great Britain June 24, 1949
10 Claims. (Cl. 214—21)



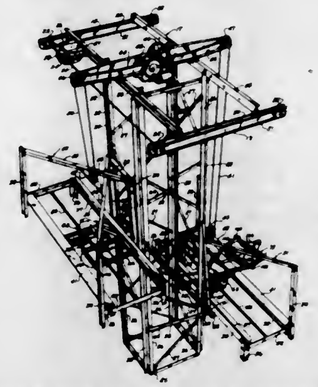
1. Drying apparatus comprising in combination an enclosed drying chamber having opposite loading and unloading openings communicating therewith, a plurality of panels upon which articles to be dried are carried, a conveyor mounted within said chamber whereby said panels may be continuously conveyed from the loading to the unloading openings of said chamber, a second conveyor for conveying said panels externally of the chamber from the unloading opening to the loading opening of said chamber, means whereby said second conveyor may pass through the loading and unloading openings of said chamber, means for automatically transferring said panels individually to and from said conveyors, and means for transmitting an intermittent motion to said second conveyor whereby the latter may remain at rest during the individual transfer of said panels to and from said conveyor; said apparatus being operable by an electric motor which is arranged to drive a transmission shaft disposed longitudinally above the drying chamber, each end of said shaft being coupled through reduction gearing to a cross shaft, one end of each cross shaft driving said first conveyor and the panel transfer means, and the other end of each cross shaft driving the second conveyor through a clutch of electro-magnetic type energization of which to start up said second conveyor is effected by means of an electric switch operable by a cam arranged to move in synchronism with said panel transfer means.

2,667,982
WEIGHT ACTUATED ELEVATOR AND TRANSFER MECHANISM
Ernest E. Evans, Riverside, Calif., assignor to Evans Bros. Packing Co., Riverside, Calif., a copartnership
Application May 1, 1951, Serial No. 223,937
13 Claims. (Cl. 214—89)



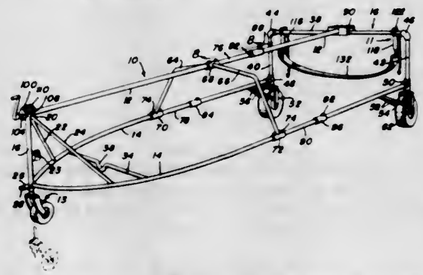
1. In a device for lowering packing cases from an upper floor to a lower floor, a pair of platforms vertically movable between the two floors, one platform being positioned behind the other in parallel relation thereto, the platforms having the side edges thereof in continued alinement horizontally, means hydraulically interconnecting the platforms for simultaneous vertical movement in opposite directions, said means being positioned below the platforms beyond the side edges thereof, conveying means on the lower floor extending through and beyond the spaces below the platforms for carrying the cases away from the descending platforms, said hydraulic means including a normally closed valve and connections for controlling said valve, said connections being manually operable to open the valve to release the platforms for movement, and means actuated by cases on a descending platform to close the valve.

2,667,983
APPARATUS FOR HANDLING AUTOMOBILES
Roy O. Billings, Milwaukee, Wis.
Application October 20, 1948, Serial No. 55,603
13 Claims. (Cl. 214—95)



9. An apparatus for handling automobiles comprising an elevator, a dolly permanently mounted on said elevator for movement toward either end thereof; a cantilever frame pivotally mounted on said dolly for swinging movement, said frame being of substantially greater length than said dolly to always project a substantial distance therebeyond releasable means on said frame near the outermost portion thereof and a substantial distance beyond said dolly for effecting a draft engagement of said frame with an automobile, said frame being of a length to project in a selected direction beyond either end of said elevator to cause positioning of the same releasable means beyond either end of the elevator while the dolly is still on the elevator, and means on the dolly for causing swinging movement of the frame.

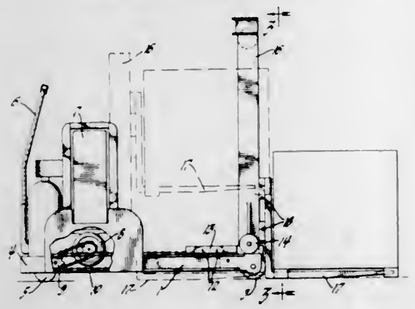
2,667,984
BOAT CARRIER
Henry F. Proehl, Alexandria, Minn.
Application May 28, 1951, Serial No. 228,613
6 Claims. (Cl. 214—396)



1. A boat carrier frame comprising a longitudinally extending center bar, an inverted U-shaped hanger having a web portion and vertical downwardly depending leg portions, means connecting said hanger at the mid-point of its web to the rear end of said center bar, a vertical downwardly depending bar secured to the forward end of said center bar, a V-shaped lower bar having arcuately diverging legs being secured at its apex to the free end of said vertical bar and at its ends to the free ends of said hanger leg portions, a bow supporting bar secured at its ends to the diverging leg portions of

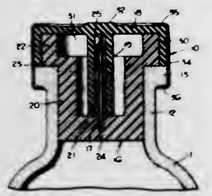
said lower bar adjacent the apex thereof, a rotatable shaft extending through said center bar and means for rotating said shaft at the forward end of said center bar, a winch at the other end of said shaft and rotatable therewith, cables wound on said winch, pulleys mounted on said hanger adjacent the ends of its web portion, said cables being entrained over said pulleys and depending vertically therefrom for raising the stern of a boat.

2,667,985
INDUSTRIAL TRUCK
Holden D. Woughter, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 10, 1949, Serial No. 114,977
12 Claims. (Cl. 214—670)



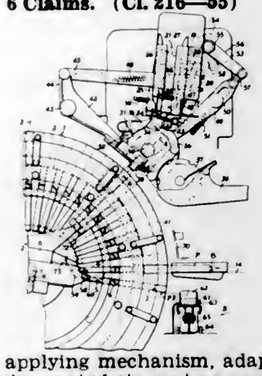
1. In a material handling vehicle, a main frame having a portion thereof projecting longitudinally from one end of said vehicle to provide an unobstructed space centrally thereof with an open mouth at one end of the main frame, said space being open vertically from the ground up, road wheels mobily supporting said main frame and positioned on said frame adjacent said open mouth for longitudinal movement and a load carrying platform of a size substantially corresponding to said space and movably mounted on the frame at the sides of said space in telescopic relation therewith for the projection and retraction of the platform through said mouth and into and out of the space, the arrangement being such as to enable platform retraction and projection throughout the entire length between its opposite limits of travel to occur in a plane parallel to and immediately adjacent the floor line engaged by said wheels.

2,667,986
SELF-SEALING DISPENSING DEVICE
Harold N. Perelson, Los Angeles, Calif.
Application December 22, 1951, Serial No. 262,934
11 Claims. (Cl. 215—48)



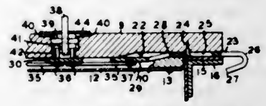
10. A self-sealing dispensing device comprising a stopper adapted to fit the neck of a bottle, said stopper having a rigid base, a hollow needle mounted upon said base and connecting through the latter with the space therebeneath, a pointed end portion of said needle extending upward out of said base, an imperforate deformable diaphragm of resilient material mounted on and uniting with said base to completely enclose said needle, said diaphragm overlying the pointed end of said needle in a position to be impaled on said needle when said diaphragm is depressed, and a resiliently expansive element disposed between said base and said diaphragm and positioned to be compressed between said diaphragm and said base practically throughout the entire axial movement of said diaphragm to effect said depression thereof, the compression of said element developing an expansive force in said element which is operative when the outside pressure against said diaphragm is relaxed, to quickly strip said diaphragm from the pointed end of said needle.

2,667,987
PACKING MACHINE
Donald Richard Patrick Jackson, Deptford, London, England, assignor to Molins Machine Company Limited, Deptford, London, England, a British company
Application August 27, 1951, Serial No. 243,877
Claims priority, application Great Britain September 5, 1950
6 Claims. (Cl. 216—55)



1. Stamp applying mechanism, adapted to apply an adhesive coated stamp to a packet so that the stamp lies flat across the end face of the packet and protrudes beyond the planes of the broad faces thereof, a pressure plate adapted to engage and hold the stamp in said position, movable tuckers to engage and fold down the protruding ends of the stamp on to the broad faces of the packet, and means operable thereafter to move the pressure plate in a direction to push the packet away from the tuckers while the latter remain stationary.

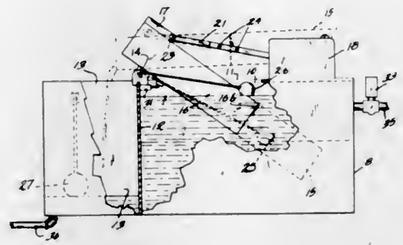
2,667,988
RECEPTACLE COVER
Clemens J. Bax, Kansas City, Mo.
Application May 16, 1950, Serial No. 162,234
10 Claims. (Cl. 220—46)



7. A cover for a top flanged receptacle, said cover having spaced parallel recesses therein, spaced parallel bars slidably mounted in said recesses, a dust-tight gasket on said cover, said dust-tight gasket passing over said recesses and

enclosing portions of said bars in said recesses, latch hooks formed on outer ends of each of said bars, said latch hooks being tapered to wedge on the flanged receptacle, means connecting said hooks for a single manual control to open and close said hooks on the flanges of the receptacle, said hooks extending from the sides of said cover, a single longitudinal latch bar, said longitudinal latch bar passing through the ends of said cover, and said longitudinal latch bar connected to said means for a single manual control.

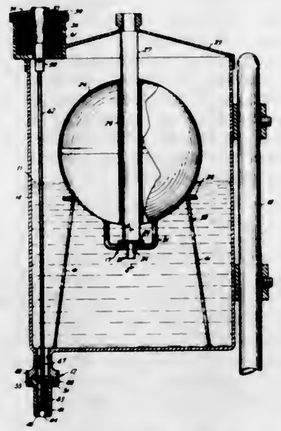
2,667,989
SIRUP MIXING DEVICE
Raymond J. Unser, Faribault, Minn.
Application October 25, 1950, Serial No. 192,057
2 Claims. (Cl. 222—56)



1. A liquid mixing device comprising a plurality of substantially parallel liquid supply tanks disposed in side by side relation, an intermixing tank extending transversely across one end of said supply tanks, an elongated shaft mounted transversely of the supply tanks, an elongated trough-like supply bucket mounted in each supply tank for swinging movement on the longitudinal axis of said transverse shaft, a yoke rigidly interconnecting said supply buckets, a pitman pivotly connected to said yoke, a source of single revolution rotary power connected to said pitman for actuating the same to swing said buckets from filling position to dumping position and back to filling position, the discharge ends of said buckets being disposed to simultaneously deliver the respective liquids into said mixing tank when in discharge position, and means for actuating said power source when the liquid in said mixing tank falls below a predetermined level.

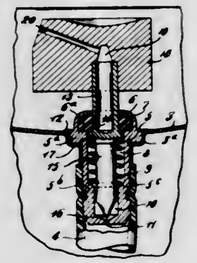
2,667,990
DISPENSING MECHANISM WITH TIME CONTROLLED FLOW
Albert B. Mojonnier, Leyden Township, Cook County, Ill., assignor to The Mojonnier-Dawson Co., a corporation of Illinois
Application April 4, 1949, Serial No. 85,278
5 Claims. (Cl. 222—67)

1. In a dispensing mechanism, the combination of a fluid container, means for supplying fluid to said container, means in said container operable to maintain the fluid in the container at a preselected level, a valve mounted on the container for dispensing fluid from the container into a receptacle, a solenoid mounted on said container for operating said valve, a member extending through said container for interconnecting said solenoid and said valve, an interval timer for controlling the energization of the solenoid and means to actuate said timer to energize said solenoid and thereby move said member to open said valve whereby a substantially constant



volume of liquid is dispensed each time said solenoid is energized.

2,667,991
DISPENSING VALVE FOR PRESSURIZED DISPENSING CONTAINERS
Ralph K. Boyer, Lakewood, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application July 11, 1951, Serial No. 236,204
7 Claims. (Cl. 222—82)



1. An aerosol self-contained valve assembly adapted for hermetic sealing to a receptacle having contents under pressurized condition, said assembly providing three sealing points when the said assembly is in closed position, comprising a valve casing having a lower chamber and an upper chamber, the lower portion of said lower chamber being provided with a bottom wall integral with the casing but of reduced thickness, the said construction forming an initial seal for the interior of the casing of the valve assembly, a packing member entirely enclosed and confined within the said upper chamber, a plunger having a chamber portion with a side wall orifice, there being a flange upon the said plunger normally in engagement with the under side of said packing thereby to form a second point of sealing for the interior of the casing, the said packing having a central opening through which the upper part of the plunger extends, the said upper part of the plunger being slidable through the said packing but frictionally engaged by the packing whereby the orifice in the side wall of the hollow upper port of the plunger is sealed when the flange on the plunger is in engagement with the packing thereby forming a third

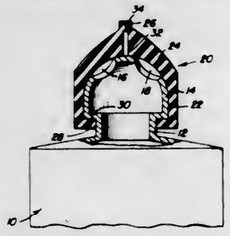
point of sealing, a spring within the lower chamber of the casing and normally exerting pressure against the flange on the plunger, the said plunger extending to approximately the bottom part of the lower chamber and provided with a pointed end portion whereby when the plunger is initially moved to thereby break the seal between the side wall port in the upper hollow part of the plunger and to move the flange on the plunger from its sealed position, the pointed end of the plunger pierces the metal wall at the bottom portion of the casing.

2,667,992

TOOTHPASTE TUBE HAVING A HOLLOW HEAD WITH A CAP FITTED THEREON FOR CONTROLLING DISPENSING

Eleanor M. Hammond and Benjamin F. Hammond, Brainerd, Minn., assignors of forty per cent to Elmer V. Peterson, Brainerd, Minn.

Application November 17, 1949, Serial No. 127,896
2 Claims. (Cl. 222—92)



1. The combination of a flexible tube having a substantially spherical hollow head with a pair of oppositely disposed discharge apertures and a cylindrical neck connecting said head with said tube, and a cap mounted rotatively on said head, said cap including a substantially hemispherical top wall located on said head, an inwardly extending flange fixed to said wall and having a substantially cylindrical opening therein in which said neck is fitted, a nozzle fixed to said wall and having a longitudinal orifice in the upper part thereof, said wall having a longitudinal slot in alignment with and in communication with said orifice, and said cap being rotatively disposed on said head so that said slot is positionable in communication with said apertures and in such position that said slot is out of registry with said apertures.

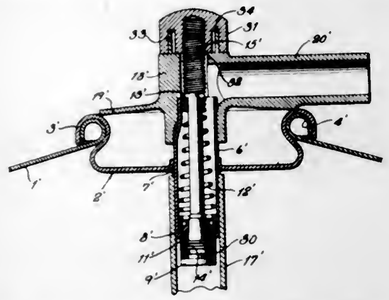
2,667,993

PRESSURIZED CONTAINER VALVE

John E. Ayres, Elizabeth, N. J., assignor, by mesne assignments, to Oil Equipment Laboratories, Incorporated, Elizabeth, N. J., a corporation of New Jersey

Application June 24, 1950, Serial No. 170,163
11 Claims. (Cl. 222—394)

1. A dispenser valve mechanism for a pressurized container having a closure cap comprising a tubular valve body of sheet material having imperforate side walls and being open at its ends, said valve body extending through the cap and being secured to the cap intermediate its ends with its lower end protruding below and its upper end protruding above the cap, a valve seat having an aperture therein carried by the lower end of the valve body, a valve operating plunger extending through the aperture in the valve seat, said plunger having an actuating stem extending through the valve body and projecting beyond the upper end thereof and a headed end projecting beneath the valve seat at the lower end of the valve body, said actuating stem being spaced from the side walls of the valve body, said plunger also having a gradually tapered section adjacent and sloping outwardly toward the headed end thereof, said tapered section fitting within the aperture in the valve seat and engaging with the edges of the valve seat defining the aperture



therein at a point intermediate the ends of said tapered section, sealing means secured to the lower end of the plunger and a spring engaging with the plunger and urging the plunger upwardly in the valve body to engage the sealing means on the plunger with the valve seat and the tapered section of the plunger with the edges of the valve seat defining the aperture therein.

2,667,994

FLEXIBLE WRIST WATCH BAND AND THE LIKE

Lee Rappaport, New York, N. Y.

Application March 4, 1949, Serial No. 79,595
2 Claims. (Cl. 224—4)



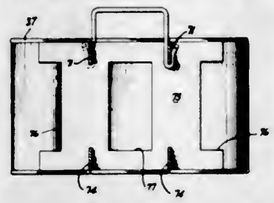
1. In a strap with a plurality of superposed plies having a seat for a watch casing intermediate the ends and on one surface of the upper ply of said strap; retaining means adjacent two opposite ends of said seat and extending substantially above said seat, each of said retaining means being constituted by two spaced seams extending transversely of said strap surface and joining said plies and two substantially parallel spaced slits located on and passing only through the upper ply provided with said one surface portions of said upper ply positioned intermediate said slits constituting respective complementary parts of loop means positioned intermediate said seams, a pin mounted within and extending through each of said loop means and slidable in said latter in transverse direction of and in linear direction to said one surface of said upper ply, two members each pivotally connected for angular displacement at opposed ends to a respective pin and laterally of said loop means, and hook-shaped clamp means on said members, respectively, and extending from said opposite ends of said pins above said one surface, said clamp means being pivotally engageable with a portion of said watch casing, whereby said watch casing may pivot about said clamp means and relative to said pins, which latter are displaceable angularly and linearly relatively to each other and to the surface of said strap.

2,667,995

COMBINED MERCHANDISING PACKAGE AND ARTICLE CARRIER

John K. Bruce, South Pasadena, and Thomas H. Davis, Alhambra, Calif., assignors to Bruce Engineering Corporation, Pasadena, Calif., a corporation of California

Application May 31, 1950, Serial No. 165,344
13 Claims. (Cl. 224—45)



13. A portable bottomless and topless container package comprising a plurality of round sided beaded containers arranged in a co-planar group, a divider comprising longitudinal and transverse members positioned between constituent containers of the group, handle means associated with the divider for suspending the package from above, the divider engaging against and being confined between opposite end beads of each constituent container, and a continuous perimetral package wall of resilient material encircling the container group under tension and lying entirely between opposite end beads of the containers to hold the containers in snug bead to bead engagement with each other and about the divider, the divider terminating inwardly of and being spaced from the package wall.

2,667,996

COMBINATION PACKBOARD AND SLED

Joseph A. Fanelli, United States Army

Application August 3, 1950, Serial No. 177,547
11 Claims. (Cl. 224—46)
(Granted under Title 35, U. S. Code (1952), sec. 266)



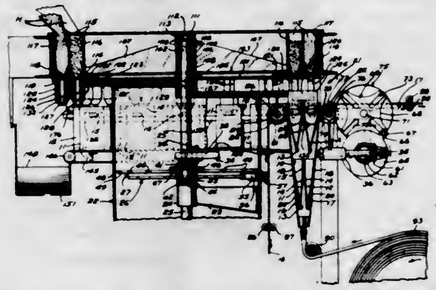
1. In a load enclosing and transporting device the combination comprising a packboard adapted for manual carrying of a load, a rigid body member having at least one side wall arcuately curved adjacent at least one end thereof to provide a prow for said rigid body member when it is desired slidably to transport the same over snow or ice covered terrain, a wall of flexible fabric-like material connected adjacent one edge thereof to the peripheral edge of said rigid body member throughout the length of said edge of the latter, and means to form a connection between the opposite edge of said fabric wall and said packboard for bringing the latter, said fabric wall and said rigid body member into cooperative relationship to form a knapsack container adapted to enclose a load to be transported, said connecting means being releasable along at least a portion of its extent so that access may be had to the interior of said knapsack by releasing said packboard.

2,667,997

PAIRED BAG FILLING MACHINE

Clarence W. Vogt, Norwalk, Conn.

Application October 7, 1948, Serial No. 53,334
13 Claims. (Cl. 226—51)



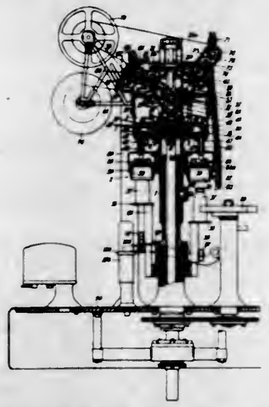
3. A machine for filling prefabricated bag pairs connected together in pairs in chain formation by a pair of tapes one on each of the outer faces of each of the bag pairs, said machine comprising spaced filling means thereon, a plurality of means spaced upon opposite sides of the filling means for engaging the tapes and feeding the bag pairs to the filling means with the sides of each of the bags of each respective pair spaced apart beneath the respective filling means, means to cause the filling means to introduce material into the bags while the sides of the bags are spaced apart, and means to move the bags away from the filling means.

2,667,998

BOTTLE CAPPING MACHINE

Arthur Graham Enock, London, England, assignor to Graham-Enock Manufacturing Company Limited, London, England

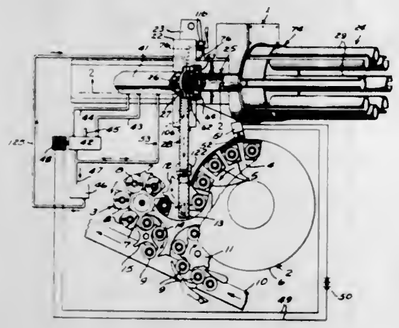
Application April 2, 1951, Serial No. 218,727
Claims priority, application Great Britain April 3, 1950
15 Claims. (Cl. 226—85)



1. In combination a bottle capping unit and a cap forming assembly, said capping unit includ-

ing a stationary spindle and a rotary member surrounding the spindle and concentric therewith, said cap forming assembly including a mounting for a foil feed means and a die means, said mounting being located above said stationary spindle and secured thereto and supported solely thereby, and transmission means between the rotary member and the foil feed means and die means, whereby the cap forming assembly is driven from the capping unit.

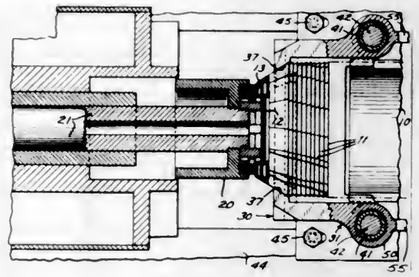
2,667,999
BOTTLE CAPPING MACHINE
Herbert G. Vore, Forest Hills, and Arthur C. Magalos, Brooklyn, N. Y., assignors to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application March 5, 1952, Serial No. 274,914
7 Claims. (Cl. 226—88.1)



1. A machine for conditioning and dispensing preformed hood caps having a pleated skirt with a band of thermoplastic adhesive therearound for application to bottles, said machine comprising, a magazine including a dispensing tube for holding a stack of nested caps, a chute through which caps are delivered to the cap applying station of a bottle filling and capping machine, a cap picker mechanism by which caps are successively withdrawn from said dispensing tube and deposited in said chute, heating means comprising a plurality of air nozzles spaced around the discharge end of said dispensing tube to project a plurality of jets of hot air against the cap skirts of the leading caps in said dispensing tube and means for supplying heated air under pressure to said nozzles to render the bands of adhesive on the cap skirts soft and tacky.

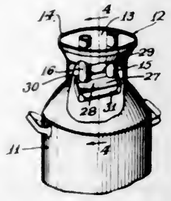
2,668,000
MOUTHPIECE FOR CAP MAGAZINES
Francis C. Rodman, Garden City, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application August 12, 1952, Serial No. 303,909
3 Claims. (Cl. 226—88.1)

1. In a bottle capping machine, a magazine adapted to receive a stack of nested hood caps having a central diaphragm portion and rearwardly flaring skirts, a mouth ring disposed at the forward end of said magazine and having a flange engaging the skirt of the foremost cap to retain the stack in said magazine and having an opening through which said cap is withdrawn, said mouth ring comprising at least two sections, a pin supporting said mouth ring, one of said sections having an ear loosely mounted on said



pin to permit sliding and rocking movement thereof with respect to said pin.

2,668,001
CONTINUOUS MILK FILLING SYSTEM
William H. Harstick, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application October 7, 1950, Serial No. 189,000
6 Claims. (Cl. 226—116)

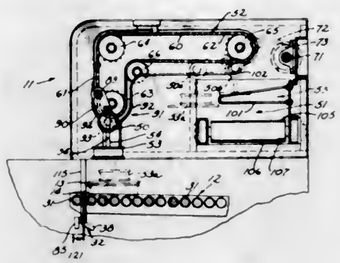


1. In a milking system for successively filling a series of milk cans to a predetermined level, comprising a can closure head adapted to seal each can, a milk inlet tube carried by each closure head and projecting into each can, a milk outlet tube carried by each closure head, means connecting the first can of the series to a milk line, means connecting each milk outlet tube of a preceding can to the milk inlet tube of the next can, a vacuum connection on the last can of the series for providing a minus pressure in the cans of the series, and means for connecting the milk inlet tube of each can with the milk outlet tube of each can to provide for direct communication therebetween, said means including a tray having a trough positioned within the can, said tray being movable in response to the rise of the liquid within the can to a predetermined level for connecting said trough with said inlet and outlet tubes.

2,668,002
APPARATUS FOR REMOVING COVERS FROM BAKING PANS
Hiram E. Temple, San Gabriel, Calif., assignor to Read Standard Corporation, a corporation of Delaware
Application October 30, 1950, Serial No. 192,926
11 Claims. (Cl. 226—129)

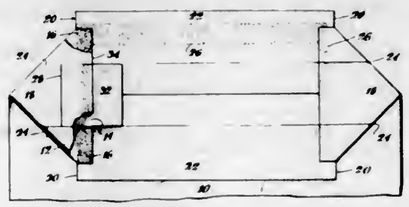
1. In an apparatus for picking up and transporting such articles as covers of baking pans, the combination of: a structure providing spaced loading and unloading zones, said loading zone being adapted to receive one or more baking pans having thereon covers which are to be removed;

conveyor means for conveying baking pans to said loading zone; a gate traversing said conveyor means and movable relative thereto between extended and retracted positions, being adapted to intercept and restrain baking pans conveyed to said loading zone by said conveyor means; a carriage movable from said loading zone to said unloading zone; a plurality of pickups carried by said carriage, each of said pickups being adapted to engage a cover of a baking pan in said loading



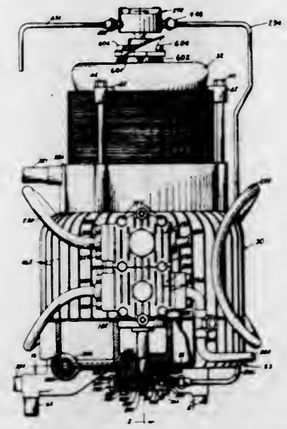
zone and to remove it therefrom in response to movement of said carriage from said loading zone to said unloading zone; means actuable by said gate and responsive to the pressure of a predetermined number of baking pans thereagainst for moving said carriage from said loading zone to said unloading zone so as to transport to said unloading zone any covers carried by said pickups; and unloading means for releasing from said pickups in said unloading zone any covers carried thereby.

2,668,003
VALVE BAG
Tom L. Jones, Columbus, Ohio, assignor to Arkell and Smiths, a corporation of New York
Application June 3, 1950, Serial No. 165,949
4 Claims. (Cl. 229—62.5)



1. In a non-gusseted bag having walls comprising a plurality of plies of paper with an end closure of end flaps formed by infolding opposite portions of the bag wall and side flaps also formed by infolding opposite portions of the bag wall covering said end flaps, the combination which comprises a transverse slit in the outer ply of one of the end flaps which delineates a valve and valve action area extending inwardly between the plies of the end flap from said slit to the inner edge of the bag wall, said slit being positioned with a substantial portion of its length covered by the side flaps and said end flap having a rectangular elongation of at least one of its inner plies beyond the lateral edge of the bag wall in the valve to form a supplemental valve and valve action area and said elongation being of the same width as the said valve and valve action area.

2,668,004
COMPRESSOR
Lindsay H. Browne, Weston, Conn., assignor to American Brake Shoe Company, Wilmington, Del., a corporation of Delaware
Application March 2, 1948, Serial No. 12,610
4 Claims. (Cl. 230—26)

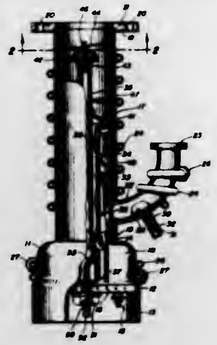


1. A compressor comprising an elongated housing embodying diametrically opposed cylinders extending transversely to the longitudinal axis of said housing, said housing having a closed end, and lateral sides projecting transversely to said closed end, said housing having a vertical operative position wherein said one end is disposed downwardly, and a horizontal position wherein one of said sides is disposed downwardly, said one side being substantially parallel to the longitudinal axis of said cylinders, pistons reciprocably mounted in said cylinders, a drive shaft journaled in said housing and extending longitudinally of said housing between said opposed cylinders substantially transversely to said cylinders, means on said drive shaft for reciprocating said pistons simultaneously upon rotation of said drive shaft, an oil pump mounted on said housing and operatively connected to said drive shaft for feeding oil to said means for lubricating the latter upon rotation of said drive shaft, and means for feeding oil to said pump, said last named means including a reservoir defined in said one end portion of said housing, a pocket formed in said one end portion of said housing at the junction of said closed end of said housing and said one side, and conduit means connecting said pocket with the inlet of said pump.

2,668,005
HIGH VACUUM DIFFUSION PUMP
James Wishart, Rochester, N. Y., assignor, by mesne assignments, to Consolidated Vacuum Corporation, Rochester, N. Y., a corporation of New York
Application March 5, 1952, Serial No. 274,995
4 Claims. (Cl. 230—101)

1. In a vertical diffusion pump of the type comprising a generally cylindrical pump casing having an open upper end adapted to be connected to a system to be evacuated, a boiler opening into the lower end of said pump casing, at least one removable cylindrical vapor chimney disposed in said casing in generally concentric relation therewith, the lower end of said chimney resting on the bottom of said boiler, the upper end of said chimney being in an upper zone of

said casing, and jet cap means cooperating with said upper end of said chimney, said jet cap means and said chimney forming a jet nozzle assembly, said chimney being unsecured to said boiler and to said casing, the improvement which comprises post means secured to said chimney



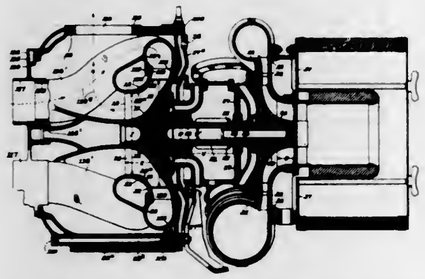
and projecting upwardly beyond the upper end of said chimney, and pinning means loosely encircling said post means and extending outwardly into engagement with the inner face of said casing, said pinning means exerting spring pressure against said casing effective to resist vertical displacement of said pinning means.

2,668,006

TURBOCHARGER

Anthony J. Larrecq, Yardley, Pa., assignor to Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania

Application November 8, 1949, Serial No. 126,109
9 Claims. (Cl. 230—116)



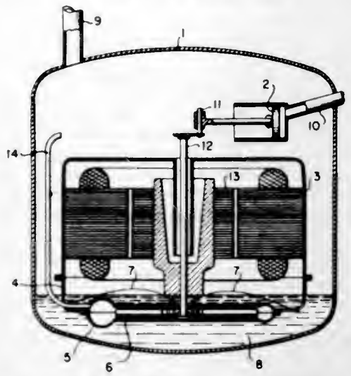
1. A turbocharger comprising, in combination, a turbine wheel having rear and front sides with radial inlet blades on the front side, a shaft for rotatably supporting said wheel, a compressor impeller mounted on said shaft, a nozzle ring housing radially surrounding said turbine wheel for supplying gas thereto, a nozzle ring disposed radially adjacent to the turbine inlets and having axially extending nozzle vanes and annular members connected to the ends thereof, means for supporting said nozzle ring by said housing, an enclosure for the nozzle ring housing, said enclosure having a rear part adjacent to the rear side of the turbine wheel and a forward part adjacent to the front part of the turbine wheel and communicating with the discharge end of the turbine wheel to receive gas discharged therefrom, and annular sealing means interposed between the rear part of said enclosure and the nozzle ring to prevent the egress of high pressure gases from the nozzle ring into said enclosure.

2,668,007

ARRANGEMENT OF THE OIL PUMP IN MOTOR-COMPRESSOR GROUPS OF REFRIGERATING APPARATUS

István Szaniszló, Caronno Pertusella (Varese), Italy, assignor to Siemens Societa per Azioni, Milan, Italy, a corporation of Italy

Application October 20, 1950, Serial No. 191,096
Claims priority, application Italy July 10, 1950
5 Claims. (Cl. 230—206)



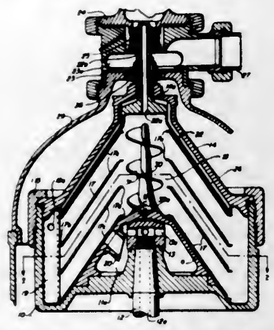
1. In a refrigerating motor-compressor set having a sealed enclosure filled with refrigerant when in operation and having a bottom portion containing an approximately constant quantity of lubricating oil forming a free level surface, a dividing wall structure extending substantially parallel to said level surface and in proximity thereto and being submerged in said oil quantity so as to divide part of said quantity into two layers above and below said structure, and lubricating pump means having an inlet opening disposed at the center of said wall structure and within the upper one of said layers to induct oil only from said upper layer.

2,668,008

CENTRIFUGAL SEPARATOR FOR COLD MILK PRODUCTS AND THE LIKE

Hubert M. Spross, Poughkeepsie, N. Y., assignor to De Laval Separator Company, Poughkeepsie, N. Y., a corporation of New Jersey

Original application April 1, 1950, Serial No. 153,408. Divided and this application October 7, 1952, Serial No. 313,462
3 Claims. (Cl. 233—21)



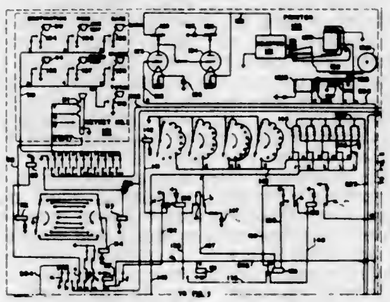
1. In an air-tight centrifuge, the combination of a rotatable centrifugal bowl having a separating chamber, a stack of conical discs in the chamber forming thin separating spaces between the discs, the discs having central holes and the bowl chamber having within adjacent edges of said holes a free space providing an unobstructed communication inwardly from said edges toward the rotation axis of the bowl, means outside said free space engaging the discs and forming a driving connection between the bowl and the discs, an axial feed pipe having an airtight connection with the bowl, the bowl having a feed passage communicating with said pipe for leading the feed to the disc stack at a region spaced outwardly from said free space, the bowl also having a central light component outlet passage leading from one end of said free space and a heavy component outlet passage leading from the outer part of the separating chamber, a stationary discharge pipe outside the bowl and communicating with the central outlet passage, an air-tight seal between the discharge pipe and the bowl to provide a closed path from said free space through the central outlet passage to the discharge pipe, and a tapered axial shaft mounted in the bowl and surrounded by said free space, said shaft extending throughout most of the axial extent of said free passage and tapering toward said central outlet passage, the tapered shaft forming at the inner edges of the discs an annular free space which increases gradually in cross-sectional area toward said central outlet passage.

2,668,009

TICKET PRINTING AND ACCOUNTING SYSTEM

Edwin L. Schmidt, Croton-on-Hudson, N. Y., assignor to The Teleregister Corporation, New York, N. Y., a corporation of Delaware

Application December 9, 1947, Serial No. 790,549
15 Claims. (Cl. 235—60.27)



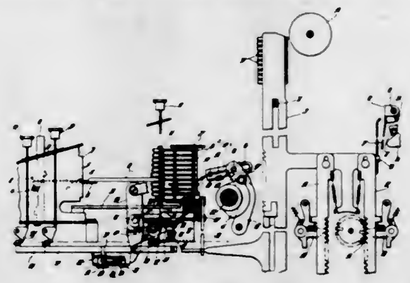
1. A ticket printing and issuing system comprising a keyset having a key for each destination for which a ticket is to be issued, a key for each of a plurality of types of tickets, and a key for each of a plurality of rate bases on which any ticket is to be priced, means controlled by the actuation of said keys for producing signals in accordance with the information represented by the keys, automatic computing and storage apparatus having selectable storage sections on which are maintained signal conditions representing the price applicable to each such destination in accordance with the type of ticket and the rate basis on which the ticket is priced and operative in response to the signals produced under the coordinated control of actuated keys of the three aforesaid kinds for determining the price of a wanted ticket, means controlled by said apparatus for producing answerback signals and including a code signal composing device for temporarily storing the price of the wanted ticket as determined by said apparatus, and a ticket printing and issuing machine having a code signal translator responsive to signals composed and stored by said device for causing an individual wanted ticket to be printed and issued.

2,668,010

ITEM RETAINING MECHANISM FOR ACCOUNTING MACHINES

Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware

Application December 23, 1950, Serial No. 202,465
1 Claim. (Cl. 235—60.31)



In an accounting machine of the class described having a register, printing members, a plurality of indexable stops arranged denominationally in rows, feeler members connected to said printing members and shiftable across said field of stops into alignment with successive denominational rows thereof, a guide slidably supporting said feeler members and shiftable therewith, a block member slidable in a direction across said rows of indexable stops, a shifting member mounted on said block to shift said guide and said feelers, said member being shiftable on said block in a direction perpendicular to the plane of said stops, a channel member also shiftable in said perpendicular direction, means on said shifting member engaged in said channel member, members including a resilient connection operated by said cycling means to shift said channel member and thereby said feeler members toward said field of stops prior to advance of said printing members whereby the indexed ones of said stops will differentially limit movement of said printing members, a total control member operable to enable said register to limit movement of said printing members, and means operable by said total control member to lock said channel member against movement by said cyclically operating members, enabling said register alone to limit movement of said printing members.

2,668,011

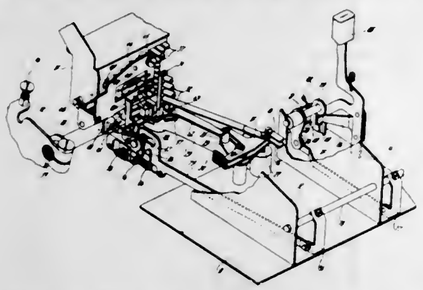
TOTAL CONTROL MECHANISM FOR ACCOUNTING MACHINES

Walter A. Anderson, Trumbull, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware

Application December 13, 1951, Serial No. 261,489
3 Claims. (Cl. 235—60.31)

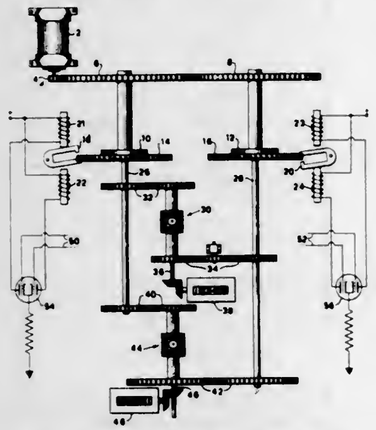
3. An adding machine of the class described comprising an amount indexing mechanism having a home position and shiftable therefrom upon the indexing of an amount therein, cyclically operating mechanism, a total control member, resilient means to urge said total control member into an ineffective position, a lever on said total control member, said member moved by said indexing mechanism when in home position

into the path of operation of said cyclically operating mechanism to enable said cyclic mechanism to shift said total control member into an effective position, a latch to hold said total control member in said effective position, a latch release member operable by said indexing mechanism upon entry of any digit therein, an operable subtraction control key, and a linkage



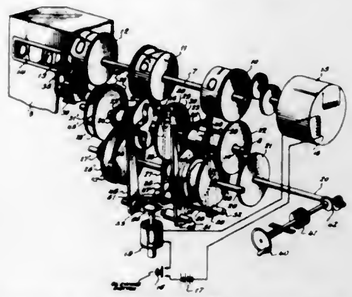
actuated by said total control mechanism when in effective position to latch said subtraction control key in a normal position, said linkage including a member yieldable thereon to release said latch when said total control member is shifted by said cyclically operating mechanism and said linkage is blocked by said subtraction control key in operated position.

2,668,012
DIFFERENTIAL COUNTER
Myrl A. Lindeman, Drexel Hill, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application May 5, 1949, Serial No. 91,472
3 Claims. (Cl. 235—92)



1. A counting mechanism comprising a pair of escapements, each of said escapements including an escape wheel and an escape latch controlling step by step movement of its associated wheel, means continuously frictionally urging said escape wheels in a forward direction at speeds in excess of the maximum speed permitted by their associated escape latches, a pair of independent electromagnetic means each responsive to successive high speed electrical pulses and controlling the operation of one of said escape latches, counting means, and differential means connecting said escape wheels to said counting means, said connecting means actuating said counting means in response to operation of said escape wheels to provide a count of the difference of the number of operations of the escape latches.

2,668,013
HIGH-SPEED COUNTER MECHANISM
Edward Dawson, New York, N. Y., assignor to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware
Application April 20, 1950, Serial No. 157,165
8 Claims. (Cl. 235—136)

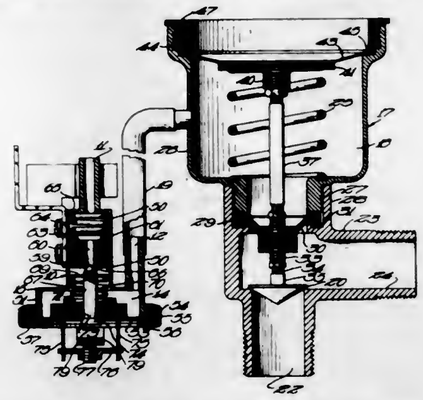


1. A counter mechanism for presenting an indication of the number of rotations of a data member, a low order numeral member connected to rotate with said data member and a higher order numeral member adapted to be rotatably coupled with said low order member, a star-shaped detent member having an odd number of crests and valleys connected to rotate said higher order member and a detent-actuator mechanism comprising a pair of pivotally mounted levers and means for urging the movable ends of said levers into engagement with said detent member at diametrically opposite sides thereof, said detent member having a contour such that when driven by said levers the rotation thereof will be through predetermined angles whereupon unambiguous indications of the digits on said higher order member will be presented, a cam member rotatably connected with said low order member for determining the next appearing digit on said higher order member, cam follower members associated with said cam member and coupled with said actuator levers for cyclically rotating said levers into engagement with said detent member for driving the same step by step through said predetermined angles, coupling means between said low order member and said detent member for initiating rotation of said detent member, and means for disengaging both of said detent-actuator levers and for simultaneously effecting continuous rotation of said high order member with rotation of said low order member through said coupling means.

2,668,014
VACUUM CONTROL
James K. Lund, Chicago, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application June 24, 1950, Serial No. 170,140
6 Claims. (Cl. 237—8)

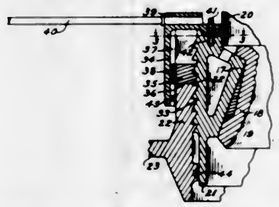
1. A car heater control adapted to control the amount of heat supplied thereby and the internal temperature of a car body, a valve controlling the volume of hot fluid supplied to the heater, a vacuum motor operatively connected with said valve and having a spring connected to move

said valve to one position, a vacuum equalizing chamber, and a member responsive to the vacuum therein connected to move said valve against said spring to another position, a vacuum control valve adapted to be mounted within the car body, a vacuum line adapted to be connected from a source of vacuum to said vacuum control valve, another vacuum line connected from said



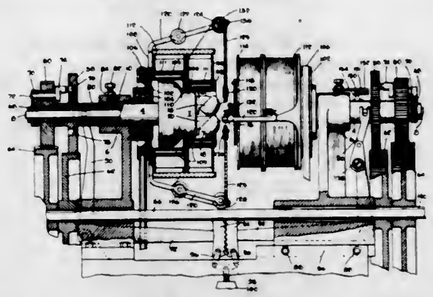
vacuum control valve to said vacuum motor, a bi-metal temperature responsive element connected to open said valve and increase the vacuum in said motor upon predetermined temperature changes within the car body and vacuum operated means operable to overbalance said temperature responsive element and close said valve member and open said vacuum equalizing chamber to atmosphere.

2,668,015
ADJUSTMENT STRUCTURE FOR CONCAVES OF GYRATORY CRUSHERS
Harvey H. Rumpel, Whitefish Bay, Wis., assignor to Smith Engineering Works, Milwaukee, Wis., a corporation of Wisconsin
Application May 2, 1952, Serial No. 285,724
4 Claims. (Cl. 241—207)



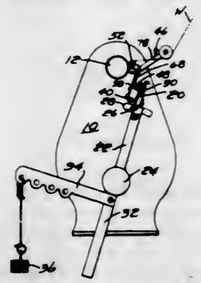
1. In a gyratory crusher, a frame, a crushing head mounted for gyration within said frame, a crushing concave carried by said frame and cooperating with said head to form an annular intervening crushing chamber, an inner annular apron carried by and depending from said concave around the outlet of said chamber, said frame and said concave having coacting external and internal screw threads therebetween for effecting adjustment of said concave relative to said head to vary the size of the crushed product delivered from said chamber, a ring nut movable along said external screw threads to clamp said concave in various positions of adjustment, an outer annular apron rotatable with said nut while the latter is being advanced along the external threads, a sealing ring mounted upon said frame and coacting with said inner apron to constantly seal said screw threads from exposure to said chamber, and another sealing ring interposed between said outer apron and said frame externally of said screw threads.

2,668,016
BALL-WINDING MACHINE
Hiram N. Huse, Foster, R. I.
Application May 14, 1953, Serial No. 355,129
16 Claims. (Cl. 242—3)



5. In a ball-winding machine, the combination of a pair of opposed tubular thread spool mounting fixtures; opposed non-rotatable heads extending into said fixtures; ball-supporting rollers carried by each head, said heads being movable axially relatively to said fixture; a thread guide carried by each fixture and rotatable about the said heads to carry thread about a ball supported by said rollers; a spindle for each head; a driven shaft extending through each of said spindles for driving the ball-supporting rollers; gearing for said shafts; and a mount for one of said fixtures, the associated head, thread guide, and gearing whereby the same can be moved axially of the machine away from the opposed head to permit of removal and replacement of the thread spool.

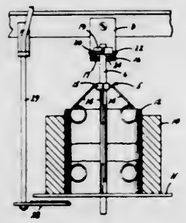
2,668,017
WIRE GUIDE
Jesse Marcroft, Rehoboth, Mass., assignor to Universal Winding Co., Cranston, R. I., a corporation of Massachusetts
Application June 29, 1951, Serial No. 234,193
3 Claims. (Cl. 242—9)



1. A wire guiding mechanism for use in a coil winding machine comprising in combination two parallel rods adapted to be reciprocated by said machine, a block adjustably carried by said rods, a member pivotally mounted on one of said rods and held against longitudinal movement relative thereto by said block, cooperating means between said member and the other of said rods whereby said other rod limits the pivotal movement of

said member, a wire guiding button carried by said member adjacent one end thereof, a finger carried by said member and extending beyond said button, and a wire engaging means carried by said finger and located beyond said button adapted to be engaged by the strand of wire being wound whereby the tension of said strand tends to pivot said member around said one rod to maintain said button against the periphery of a coil being wound.

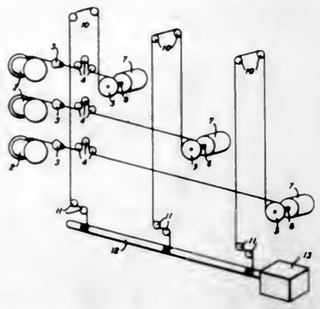
2,668,018
SIDE DRAWING WINDING DEVICE
William Charles Hanse, Philadelphia, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application May 12, 1948, Serial No. 26,662
5 Claims. (Cl. 242—18)



1. In apparatus for unwinding an annular package; a strand drawing means; a control for the drawing means that is movable between a position for stopping said means and a position for operating said means; a stationary support; a package holder having an axis about which a strand package may be supported and the holder rotated comprising a package-supporting platform and a member extending lengthwise of the axis upwardly and centrally from the platform and adapted to extend and be inserted through the hollow portion of a package, an upper portion of the member being connected to the support in swivable, rotatable, and readily separable relationship to provide pendulous suspension of the holder and rotatability thereof about said axis, said holder being open with respect to the periphery of a package supported thereon and having a frictional surface disposed generally concentrically with the axis; frictional means connected with the control and supported adjacent the frictional surface for movements into and out of engagement with said frictional surface in response to movements of the control into and out of, respectively, said stopping position; and means in spaced lateral relationship with the holder for guiding the strand.

2,668,019
STRAND TENSION CONTROL MECHANISM
Leo G. Holt, Merrimac, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 7, 1949, Serial No. 103,483
4 Claims. (Cl. 242—45)

3. In apparatus for adjusting tension in a plurality of strands simultaneously, the combination with the strands, means for imparting movement to the strands, and means for creating an initial tension in the strands, of a direct current generator for each strand to be adjusted, each generator having its armature short circuited, a shaft for each armature, a pulley for each strand over which the strand passes in its travel, said pulleys being rigidly mounted on the corresponding armature shafts, separately excited fields for the generators, and a rheostat connected in the voltage supply circuit for the generator fields which simultaneously establishes specific armature loads



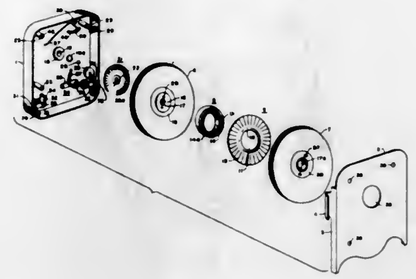
of the generators by uniformly presetting the strength of the generator fields, thereby causing the pulleys to exert a uniform frictional force against the strands passing over them which is substantially independent of the speed of the strands.

2,668,020
YARN SHIPPING CORE
Charles K. Dunlap, Hartsville, S. C., assignor to Sonoco Products Company, a corporation of South Carolina
Application October 25, 1950, Serial No. 191,968
11 Claims. (Cl. 242—46.2)



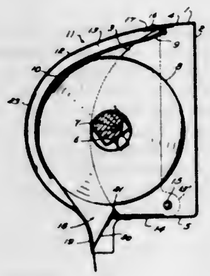
1. A bobbin particularly adapted as a shipping core for yarn packages comprising an outer tubular member forming a bobbin barrel and having an inturned upper end, an inner reenforcing tube within said outer member and having an inwardly crimped upper end abutting the inturned upper end of said outer tubular member from within said member, and retaining means overlying the inturned upper end of said outer member outside said member and detachably engaging the inwardly crimped upper end of said inner tube for clamping said outer member to said inner tube and thereby maintaining said outer member in assembled relation on said inner reenforcing tube.

2,668,021
MAGAZINE ASSEMBLY
Howard S. Gleason, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Application March 30, 1951, Serial No. 218,399
5 Claims. (Cl. 242—54)



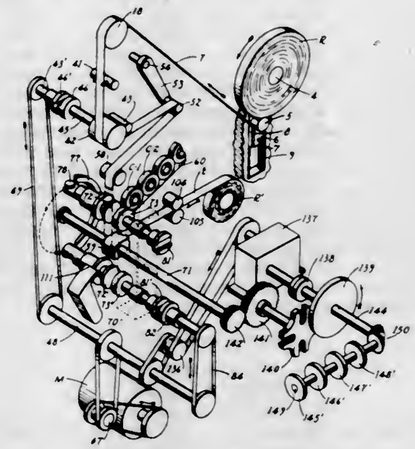
1. A magazine assembly comprising a housing having a front cover and a rear cover, a pair of coaxially disposed reels, means adjacent the outer edges of said reels for approximately locating said reels during the assembly and loading of said magazine, first thrust means between said front cover and the front face of one of said reels, bearing means carried by said one reel, second thrust means disposed between said bearing means and the front face of the other of said reels, and means for guiding the passage of a tape or the like between said reels.

2,668,022
SHEET MATERIAL DISPENSER
Elmer Henry Fairfield, Ottawa, Ontario, Canada
Application May 24, 1951, Serial No. 227,989
3 Claims. (Cl. 242—55.2)



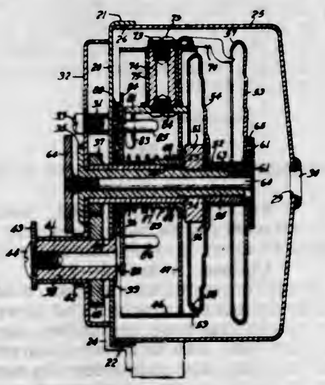
1. A toilet paper dispenser comprising an open base member having top, bottom, side and rear walls, a closure for said member having top, bottom, side and front walls, said closure being hingedly mounted on said base member, brackets mounted on the side walls of said base member for supporting a toilet paper roll, said bottom wall of the closure having a slot therein for exit of a web of paper therethrough, a curved lip projecting downwardly from the forward edge of said slot, and a second lip mounted on the rear edge of said slot and projecting downwardly therefrom, said second lip being spring-pressed towards said first lip.

2,668,023
TAPE WINDING
Lee S. Whitson, Mathias G. Tometz, and Bernard G. Ferlaak, Jr., Minneapolis, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application October 29, 1947, Serial No. 782,744
17 Claims. (Cl. 242—56)



1. A tape winding machine comprising means for rotatably holding a tape roll core, means for holding a supply of tape, means for measuring the tape as it is withdrawn from the supply, means for releasably anchoring the leading end of a withdrawn unsevered length in a fixed position near the core holder, means for advancing the core holder to bring the periphery of the core into contact with the unsevered length at a point removed from the point of anchorage, means for rotating the core to wind tape onto the core, and means for severing the tape adjacent the core after a measured length has been wound on.

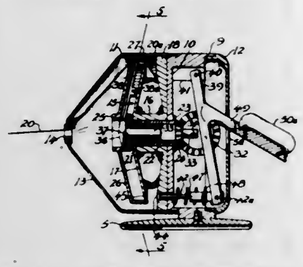
2,668,024
SPINNING REEL
Opie H. Campbell, Missoula, Mont.
Application July 29, 1950, Serial No. 176,644
11 Claims. (Cl. 242—84.5)



1. In a spinning reel the combination of a casing, a spindle supported by the casing, a hollow drive shaft mounted on and concentric with the spindle, means mounted on the casing for rotat-

ing the drive shaft on the spindle, a spool for fishing line mounted on said spindle adjacent one end of the drive shaft, said spool having a front wall and a rear wall, the front wall having an inwardly extending projection around its periphery and the back wall having a rearwardly extending peripheral flange, a drum supported by and concentric with the drive shaft and adapted to be rotated thereby, a line hook supported substantially at the peripheral surface of said drum, means supported by said drum inwardly from the peripheral surface thereof for moving the line hook into line pick-up position and for retracting it therefrom, and means independent of said drum and supported by said drive shaft which cooperates with the line hook moving means when the drum is rotated in one direction to move the line hook into line pick-up position and when the drum is rotated in the opposite direction to retract it therefrom, the distal end of said line hook when in line pick-up position extending beneath the inwardly extending projection on the periphery of the front wall of the spool, and the peripheral surface of the drum extending over the rearwardly extending flange of the back wall of the spool.

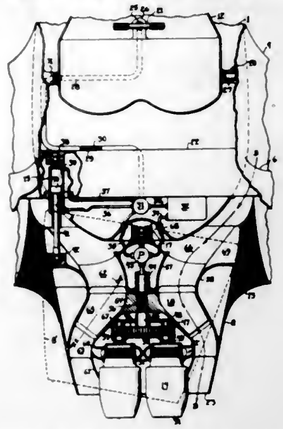
2,668,025
FISHING REEL
R. Dell Hull, Tulsa, Okla.
Application January 17, 1952, Serial No. 266,916
7 Claims. (Cl. 242—84.5)



1. A spinning type reel comprising a tubular casing, a line-carrying spool non-rotatably mounted in the casing, a line pick-up member rotatably mounted in front of the spool, a plunger mounted in the casing and movable in a direction parallel to the axis of the spool to connect a portion of circumferentially restricted area on the front flange with the rear flange of the spool thereby to brake a line in passage from the spool, means for moving said plunger to its braking position, and means for rotating said line pick-up member.

2,668,026
ORIENTABLE JET-PROPULSION SYSTEM FOR AIRCRAFT
Nathan C. Price, St. Helena, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application October 12, 1949, Serial No. 120,918
8 Claims. (Cl. 244—52)

1. An aircraft propulsion system comprising a body to be propelled, a propulsive power plant of the air consuming type, an empennage carrying the powerplant and movably secured to the aft end of the body and embracing the same with clearance to leave an air inlet supplying air to said power plant from the boundary layer of air surrounding said body, and means for regulating the position of said empennage and power plant relative to said body to increase the boundary layer air reception into the power plant at one side of the body and to decrease such reception



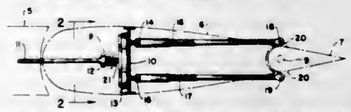
at the opposite side of the body and to determine the direction of flight.

2,668,027
AIRPLANE FLAP AND GROUND CONTACT CONTROL MEANS THEREFOR
Vincent J. Burnelli, Englewood, N. J.
Application August 10, 1948, Serial No. 43,503
5 Claims. (Cl. 244—81)



1. In an airplane, flaps and flap operating and controlling means, and an extension member pivotally carried on a flap and extending from the trailing edge of the flap in the air stream therefrom when the flap is closed, said extension member and said flap operating and controlling means operatively connected together, said member adapted to make surface contact preceding a landing when the flap is depressed, surface contact of said extension member causing pivotal movement thereof on the flap, and said flap operating and controlling means actuated by the pivotal movement of said extension member for permitting closing of the flap.

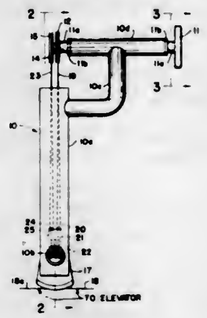
2,668,028
AIRCRAFT TAB CONTROL MECHANISM
Volney A. Peck, Los Angeles, Calif., assignor to North American Aviation, Inc.
Application December 10, 1949, Serial No. 132,315
11 Claims. (Cl. 244—82)



2. In an aircraft, a main surface, an auxiliary surface pivotally mounted upon said main surface, anti-flutter control mechanism for the actuation of said auxiliary surface comprising a threaded member operatively connected to a first side of said auxiliary surface, a second threaded member operatively connected to the opposite side of said auxiliary surface, and control means including a toothed pinion and a coupled sleeve nut in engagement with each said threaded member, a splined connection between one of said toothed pinions and its respective coupled sleeve nut to permit relatively rotative adjustments for the pre-loading of said mechanism, and a common toothed control gear meshing with each said pinion for maintaining said pre-loading while actuating said auxiliary surface.

3. In a play-free actuating mechanism for a pivotally mounted member subject to play in its pivotal connections, a first pulling means connected to one side of said member, a second pulling means connected to the opposite side of said member, a threaded element carried by the opposite terminal of each said pulling means, a first rotatable means threadedly engaging the threaded element of said first pulling means, a second rotatable means threadedly engaging the threaded element of said second pulling means, a toothed pinion fixedly attached to said first rotatable means to rotate therewith, a second toothed pinion mounted for both axial and rotative adjustment with respect to said second rotatable means for normally being rotated therewith in the actuation of said member, said pinions journalled for rotation about spaced parallel axes, and a driving gear intermediately journalled for meshing engagement with both said pinions, said second pinion arranged for temporary disengagement from said intermediate gear for rotation of said second rotatable means for the pre-tensioning of both said pulling means whereby upon re-engagement of said second pinion with said intermediate gear said member may be pivotally rotated under a pre-tensioned condition of said mechanism free from play in its pivotal connection.

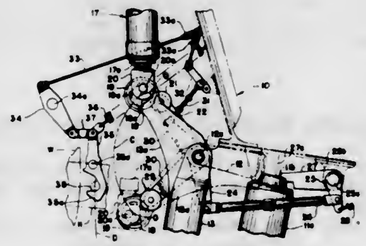
2,668,029
AIRCRAFT CONTROL COLUMN
Charles H. Davies and Roy V. Ostling, Seattle, Wash., assignors to Boeing Airplane Company, a corporation of Delaware
Application December 6, 1949, Serial No. 131,312
14 Claims. (Cl. 244—83)



1. In an aircraft having a plurality of control surfaces, a control element mounted for pivotal movement about a longitudinal axis, means for transmitting pivotal movement of said control element about said longitudinal axis to one of the control surfaces of the aircraft, a pair of control wheels rotatively mounted upon said control element upon longitudinal axes one on each side of said longitudinal axis for movements with and with respect to said control element, means for transmitting control movements from either of said control wheels to a further control surface of the aircraft and manual means carried by either of said control wheels selectively operable for interlocking said control wheel with said control element for the simultaneous coordinated operation of all of the said control surfaces of the aircraft.

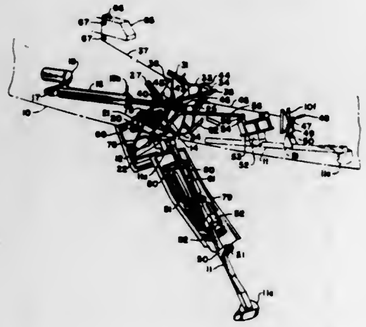
8. In an aircraft control system including a vertically disposed control column pivotally mounted for fore and aft rocking movements about an axis transverse of the aircraft and a control arm mounted for rocking movements in a transverse direction about a longitudinal pivot axis carried by an upper portion of said control column, said control arm operatively connected to a control instrumentality of the aircraft, control means including a series of intermeshing toothed elements rotatively mounted upon said control arm upon separate transversely spaced longitudinally extending axes for relative movement with respect to said control arm, one of said toothed elements being disposed on either side of said longitudinal pivot axis, and a further toothed element of said series co-axially mounted upon said longitudinal pivot axis and operatively connected to a further control instrumentality of said system.

2,668,030
AIRCRAFT LANDING GEAR LOCK
Lawrence A. Smith, Florissant, and Howard F. Gamble, Ferguson, Mo., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application December 15, 1948, Serial No. 65,368
8 Claims. (Cl. 244—102)



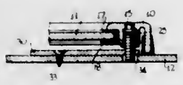
3. A latching assembly for an aircraft landing gear comprising: an aircraft structure; a landing gear assembly pivotally mounted upon said aircraft structure; a rotatable disc journaled in a bore formed within a portion of said landing gear assembly spaced from said pivotal mounting; said disc having a transverse bore eccentrically disposed with respect to the axis of said disc; an eccentric pivot rotatably engaging said transverse bore; a latch pivotally supported upon the aircraft structure; said landing gear assembly having a detent portion engaged by said latch; and actuating means connected to said eccentric pivot of said disc for imparting initial rotation to said eccentric pivot about said disc axis for the release of said latch from said detent portion without movement of said landing gear assembly and subsequently applying direct force from said actuating means to said disc without rotation of said eccentric pivot for the rotation of said landing gear assembly about said pivotal connection to the aircraft structure.

2,668,031
AIRCRAFT ARRESTING GEAR
Eric L. Martin and John P. Fosness, Santa Monica, Calif., assignors to North American Aviation, Inc.
Application September 13, 1950, Serial No. 184,624
12 Claims. (Cl. 244—110)



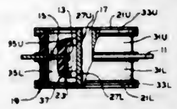
1. In an aircraft, an arresting hook having a pivotal mounting associated with its forward terminal, linkage means for supporting said arresting hook at its pivotal mounting in both retracted and stowed positions, retracting means operatively associated with said supporting linkage means for operating the same into a retracted position of said arresting hook, latch means for retaining said hook in its retracted position, and release means including a cable-operated spring-opposed bell-crank and a lost-motion device associated with said latch means arranged in such manner that either manual pull upon said cable or rupture of said cable automatically causes release of said latching means and extension of said arresting hook and its associated pivotal mounting into the operative position of said hook.

2,668,032
FRAME MOUNTING AND ADJUSTING APPARATUS
Joseph T. Haefner, Philadelphia, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 28, 1950, Serial No. 197,893
3 Claims. (Cl. 248—28)



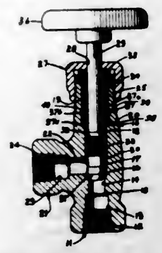
2. A frame and mounting means therefor adapted to attach the frame to an irregular wall, comprising in combination with the frame, a plurality of spaced screws rotatably retained in said frame against endwise movement relative thereto, said screws extending therethrough from front to back and having heads accessible from the front of the frame, an anchor plate for each screw adapted to be secured to the wall and having a tapped hole to receive the screw, the frame having a rearwardly extending marginal flange at the outer periphery, and a U-shaped trim piece frictionally embracing said flange for movement from and toward the wall after the frame has been secured in adjusted position by said screws for filling the space between frame and wall.

2,668,033
MOUNTING
Norman E. Lee, Forest Hills, N. Y.
Application July 7, 1945, Serial No. 603,733
1 Claim. (Cl. 248—358)
(Granted under Title 35, U. S. Code (1952), sec. 266)



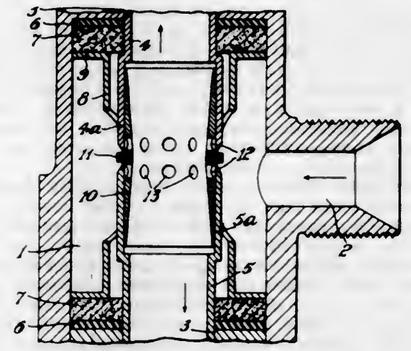
A mounting to sustain a load relative to a base, comprising a load spool, including two mutually parallel spaced end plates, and a core rigidly joining said end plates and normal thereto; a substantially tire-shaped spring collar encircling said core, intermediate said load plates, and longitudinally slidable upon said core; substantially radially disposed spring fingers defining slots through the wall of said spring collar, said spring fingers undergoing compression under slight thrusts in a radial direction and collapsing into flexure under greater thrusts in a radial direction; a base plate pierced by a central opening secured to the outer periphery of the spring collar, said base plate being disposed intermediate the load plates and substantially parallel thereto; two tubular spring elements disposed coaxially with the core and spaced therefrom, said spring elements being interposed between the load plates and on opposite sides of the base plate, each being secured at one end to one of the load plates and at the other end to the base plate; the base plate being pierced by fixed restricted orifices positioned between the spring collar and the spring elements; each spring element compressing as a column under slight axial thrusts and collapsing into inward flexure under greater axial thrusts; two hydraulic chambers of substantially annular configuration disposed respectively on opposite sides of the base plate and at least partially bounded by the two tubular spring elements; said hydraulic chambers intercommunicating through the fixed orifices in the base plate and the slots through the spring collar; a hydraulic medium within said chambers; the spring collar, upon axial deflections of relatively large amplitude, pressing against one or the other of the load plates and thereby reducing the flow of the hydraulic medium through said slots.

2,668,034
VALVE
Nick I. Konwal, Cicero, Ill., assignor to Cyrus Shank Company, Chicago, Ill., a corporation of Illinois
Application October 18, 1950, Serial No. 190,838
2 Claims. (Cl. 251—32)



1. In a valve structure having a forward seating and back seating valve, a body having a cylindrical bore provided with a rearwardly facing shoulder, and an annular groove forming a forwardly facing annular shoulder, an annular back valve seat comprising a ring in abutting contact with said forwardly facing shoulder and having a rearward groove abutting edge and an outer periphery extending radially outwardly into said groove to permanently retain said ring against said rearwardly facing shoulder and an inner periphery which is tapered to provide a packing compression surface, and a stem movable in said bore and having a valve for seating against the forward edge of said back valve seat to prevent movement of fluid through said bore past said back valve seat when said forward seating valve is in a wide open position.

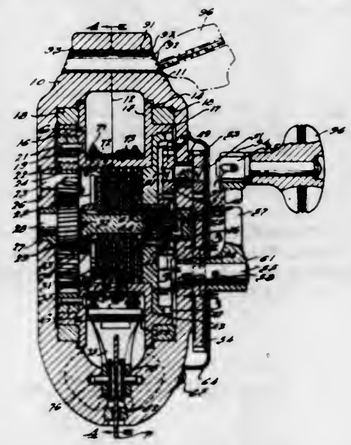
2,668,035
VALVE
Henry William Trevaskis, Solihull, England, assignor to Dunlop Rubber Company Limited, London County, England, a British company
Application December 27, 1951, Serial No. 263,615
Claims priority, application Great Britain January 2, 1951
7 Claims. (Cl. 251—78)



1. A valve for the control of fluid pressure which comprises a fluid-tight chamber having a connection for pressure fluid, two co-axial tubular valve members at least one thereof being slidable in a wall of the chamber, a sleeve co-axial with and slidable relative to the valve members, said sleeve overlapping the adjacent ends of the members, an annular seating ring for the said ends carried by the sleeve, axially spaced fluid passages in the sleeve on opposite sides of the ring and means for moving at least one of the valve members axially towards and away from the ring.

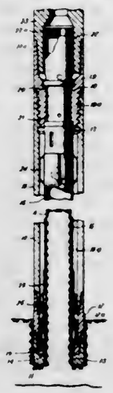
2,668,036
CABLE AND REEL FOR LOWERING OBJECTS OF DIFFERENT WEIGHT AT CONSTANT SPEED
William F. Klemm, Detroit, Mich.
Application March 14, 1950, Serial No. 149,572
19 Claims. (Cl. 254—186)

1. A safety device including, in combination, a housing, a drum in said housing having longitudinally extending cylindrical flanges, annular bearings within said housing engaged by said flanges which rotate thereon, an internal gear secured to said drum, a shaft extending centrally of said drum having a gear, a gear mating with said internal gear and said gear on the shaft in driving relation to each other, a plurality of clutch plates alternate ones of which are secured to the shaft and to the drum, and a cable



mounted on said drum extending from said housing.

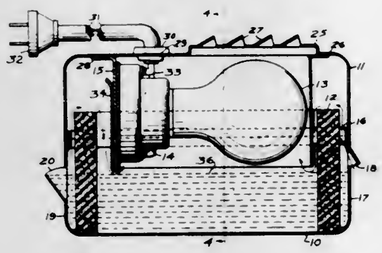
2,668,037
CORE BARREL ASSEMBLY
John C. Stokes, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application October 28, 1950, Serial No. 192,748
10 Claims. (Cl. 255—72)



5. A core barrel assembly comprising, an outer barrel having an internal abutment at the lower end of its bore, an inner core-receiving barrel extending within the outer barrel and having its lower end terminating above the internal abutment, a core catcher support extending upwardly above the lower end of the inner barrel and having its downward movement limited by the engagement with the abutment, a lateral shoulder on said core catcher support, a lateral projection on said core-receiving barrel disposed below said lateral shoulder and being movable upwardly into engagement with said shoulder upon an upward movement of said core-receiving barrel relative to said support to thereby prevent separation of said support from said inner core-receiving barrel when said inner barrel is removed from said outer barrel, and a core catcher within the sup-

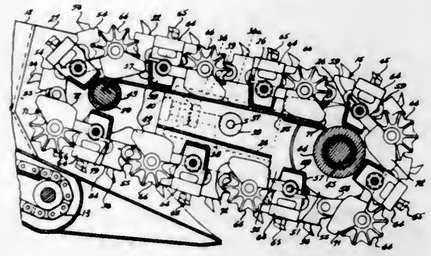
port and adapted to engage a core extending upwardly into the inner barrel, said catcher functioning to move the support downwardly into engagement with the abutment when the barrel assembly is moved upwardly relative to the core which is engaged by said core catcher, said lateral projection being spaced sufficiently below said lateral shoulder so that when said support is moved downwardly by said catcher the contact of said support with said internal abutment prevents engagement of said projection with said shoulder.

2,668,038
CIGAR CASE HUMIDIFIER
John Preston Dry, Winters, Tex.
Application March 26, 1952, Serial No. 278,578
1 Claim. (Cl. 261—95)



In a humidifier, a casing including a rectangular base adapted to hold a quantity of water, said base including spaced, parallel vertically disposed end walls, and spaced, parallel vertically disposed side walls, a band extending around the inner surface of said base and extending above the upper edge thereof, a cover arranged above said base and including spaced parallel vertically disposed end walls and spaced parallel side walls, the lower edge of said cover abutting the upper edge of said base and engaging a portion of said band, a continuous vertically disposed baffle fabricated of water absorbent material extending upwardly from the bottom of said base and spaced inwardly from the side and end walls of said base, the top of said baffle extending above the top of said band, an end wall of said base being provided with a louver having an opening in its lower end for the ingress therethrough of air, the opposite end wall of said base being provided with a louver having an opening in its upper end for filling the base with water, the side walls of said base being provided with louvers having openings in their lower ends for the ingress therethrough of air, said cover being provided with a raised section in the top thereof, a plurality of spaced parallel louvers arranged in said raised section, a body member including spaced parallel end sections and spaced parallel side sections positioned in said casing and said body member including transverse lips secured to said cover, there being an opening in the top of said cover, a ferrule positioned in said opening, an electric cord extending through said ferrule and adapted to be connected to a source of supply of current, a socket positioned in said casing and connected to said cord, a light bulb positioned within said body member and mounted in said socket, said body member being of less size than said baffle, the lower edge of said body member extending down below the top of said baffle, and a spring clip secured to said socket and frictionally engaging said body member.

2,668,039
COMBINED CUTTING AND LOADING MACHINE
Frank Cartlidge, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 26, 1949, Serial No. 112,500
10 Claims. (Cl. 262—9)

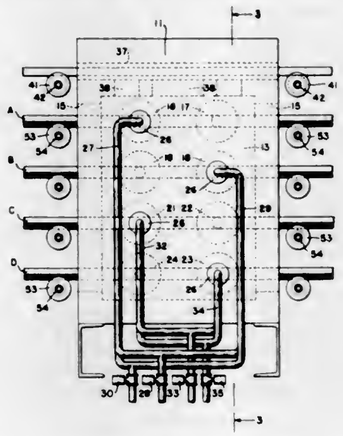


1. In a continuous cutting and loading element, two spaced apart cutter bit carrying cutter chains guided for orbital travel in parallel spaced vertical planes, a material carrying plate spacing said cutter chains apart, a material moving flight connected with said cutter chains and moved along said plate thereby, a rotatable core breaker operatively connected with said flight for movement therewith, said core breaker having a converging serrated substantially wedge-shaped engaging surface adapted to engage, wedge apart, and break down the core between the kerfs cut by said cutter chains.

3. A continuous cutting and loading element including two parallel spaced cutter bars having cutter bit carrying cutter chains guided for orbital travel thereabout, a material-carrying plate spacing said bars apart and a flight movable along said plate and connected between said chains, a cutter block projecting from said flight having a cutter bit projecting therefrom, a bracket member pivotally connected to said flight to one side of said cutter block and mounted for slidable movement along said plate, a core breaker rotatably carried by said bracket and having a converging substantially wedge-shaped material engaging periphery spaced inwardly of the cutting ends of said cutter bits, and means limiting pivotal movement of said bracket when changing its direction at the forward ends of said cutter bars and maintaining said core breaker in position to penetrate the material between the kerfs cut thereby and wedge it apart along its cleavage planes onto said plate.

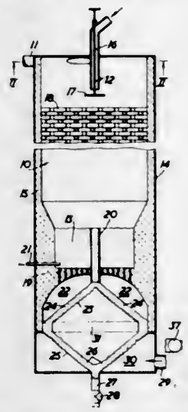
2,668,040
FURNACE SYSTEM
Frederic O. Hess, Philadelphia, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application January 26, 1950, Serial No. 140,650
10 Claims. (Cl. 263—6)

1. In apparatus for heating elongated work pieces, the combination of a plurality of furnace units each having a single unobstructed furnace chamber with oppositely disposed entrance and exit openings, means to mount a plurality of said units in spaced relation with said openings in alignment to form an elongated furnace, a plurality of horizontally extending rows of radiant cup type burners displaced vertically from each other firing horizontally into each furnace chamber, a plurality of individual work conveying means, means to mount said conveying means between each furnace unit and one above the other at heights substantially equal to the height of each row of burners whereby a plurality of work pieces moved simultaneously through the



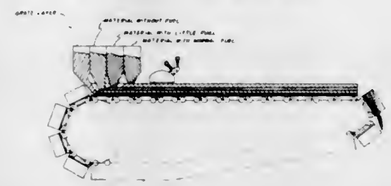
furnace one above the other by said conveying means will be in front of and therefore heated individually by said rows of burners, and means to drive each of said conveying means individually in the same direction.

2,668,041
HEAT TREATMENT OF FINELY DIVIDED SOLIDS
Norman Victor Sydney Knibbs, New Barn, Longfield, England
Application March 14, 1950, Serial No. 149,521
Claims priority, application Great Britain April 12, 1949
10 Claims. (Cl. 263—21)



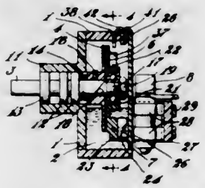
1. Apparatus for heat treating finely-divided solids, comprising an upright kiln, an inlet for solids and an exhaust outlet for gases at the top of the kiln, an outlet for solids and an inlet for air at the bottom of the kiln, a perforated support for a fluidized bed in the lower half of the kiln, an outlet from said bed for fluidized solid, a preheating zone of greater cross-sectional area than the cross-sectional area of the bed in the upper part of the kiln and a chequer-work screen of metal or refractory in said preheating zone for distributing the incoming solid as it passes down through this zone of the kiln in counter-current to hot gases rising from the fluidized bed, so as to increase the utilisation of the heat in the hot gases leaving said bed for preheating the incoming solid.

2,668,042
METHOD OF BURNING AND SINTERING MATERIAL
Kurt Meyer, Frankfurt am Main, and Hans Rausch, Frankfurt am Main-Fechenheim, Germany, assignors to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany, a corporation of Germany
Application January 19, 1951, Serial No. 206,939
Claims priority, application Germany January 20, 1950
3 Claims. (Cl. 263—53)



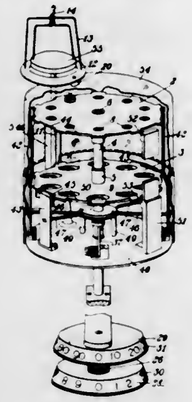
1. A method of burning high melting point materials comprising forming a deep bed by arranging on a grate a first layer of coarse particles of the material, covering said first layer with less coarse particles of said material mixed with fuel, placing on the second layer of a third layer composed of fine particles of said material mixed with a greater proportion of fuel than said second layer whereby the fuel content of the assembled mass of layers decreases from the top to the bottom of the mass, igniting said fuel, and passing air downwardly through said mass.

2,668,043
CLUTCH TYPE SPEED RESPONSIVE DEVICE WITH MAGNETIC LINK
George A. Winterburn, Putnam, Clarence B. Walworth, Rocky Hill, and Leroy E. Lawrence, Putnam, Conn.; said Walworth and said Lawrence assignors to said Winterburn
Application March 31, 1951, Serial No. 218,631
22 Claims. (Cl. 264—13)



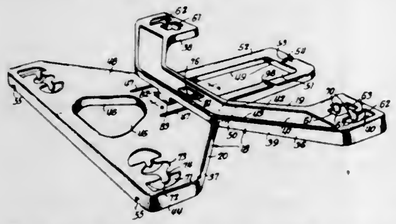
4. An actuator comprising a housing containing viscous liquid, a driving rotatable disk and a driven rotatable disk both mounted in said housing with said liquid providing hydraulic coupling between the disks, means for transmitting rotary movement to the driving disk, a cchcentrated magnetic element carried by the driven disk, stop means for limiting conjoint movement of said disks, and an actuated device having a concentrated magnetic element fixed relatively to said housing to respond to a change of position between the magnetic elements.

2,668,044
WEIGHING BALANCE
Sydney Rayner Green, London, England
Application January 30, 1951, Serial No. 208,495
Claims priority, application Great Britain February 10, 1950
10 Claims. (Cl. 265—54)



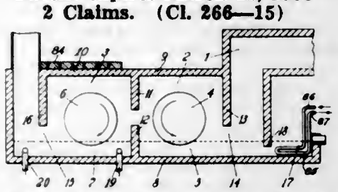
1. A weight selecting and placing mechanism for fine weighing balances having a weight platform suspended from the balance beam, said platform having a vertical axis, said mechanism comprising a weight carrier, means for rotating the carrier in a horizontal plane about a vertical axis parallel to said axis, means for vertically displacing the weight carrier parallel to its axis of rotation, said weight carrier having a circular series of apertures concentric with said carrier axis, the radius of said circular series being equal to the distance between said vertical axes, a series of weights arranged in ascending order mounted on said carrier each weight coinciding with one of said apertures, there being one free aperture, said weight carrier being located so that the weight platform is located beneath and axially aligned with one of said apertures, whereby on rotating the weight carrier the selected weight is moved to a position over the weight platform so that on lowering the weight carrier, the selected weight is removed from the carrier and supported by the weight platform.

2,668,045
BATHROOM SCALE
Mike A. Provenzano, Rockford, Ill., assignor to The Brearley Company, Rockford, Ill., a corporation of Illinois
Application March 10, 1947, Serial No. 733,582
8 Claims. (Cl. 265—63)



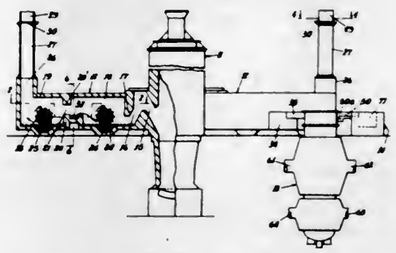
4. In a weighing scale comprising a generally rectangular base having upward projections on the corner portions thereof, a pair of platform-supporting levers adapted to be fulcrumed on said projections, counter-balancing spring means on which said levers are yieldingly suspended relative to the base, and a generally rectangular weight-receiving platform supported on said levers, the improvement which consists in the provision of said levers each of one-piece sheet metal construction, each lever having transversely of one end thereof a downwardly projecting flange integral therewith for added stiffness and strength and providing on the edge thereof at spaced points the fulcrum portions for direct rocking engagement on the aforesaid upward projections, one of said levers having its free end suspended on said counter-balancing spring means, the other of said levers having the free end thereof arranged to rest on top of the first mentioned lever, the latter having an opening provided therein under the free end of the second mentioned lever, the latter having an integral downwardly reaching projection extending freely through said opening, the lower end portion of said projection having a shoulder provided thereon which by engagement with the bottom of the first mentioned lever adjacent the opening is adapted to limit upward displacement of said second lever relative to said first lever.

2,668,046
CONDENSATION OF ZINC FROM ITS VAPOR IN GASEOUS MIXTURES
Stanley Robson, Enfield, England, assignor to The National Smelting Company Limited, London, England
Original application June 18, 1947, Serial No. 755,443. Divided and this application May 6, 1949, Serial No. 91,656. In Great Britain March 12, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires March 12, 1966
2 Claims. (Cl. 266—15)



1. In a zinc condenser having walls which define a condensing chamber, at least one substantially vertical interior partition dividing the condensing chamber into a plurality of condenser compartments and thus minimizing heat transfer from one compartment to another, a bath of molten metal in the bottom portion of each condenser compartment, the walls being provided with a gas inlet opening communicating with a first condenser compartment and a gas outlet opening communicating with a last condenser compartment, each of the interior partitions being provided with a gas transfer opening communicating with adjacent condenser compartments above the baths of molten metal, metal showering means within each condenser compartment adapted to hurl molten metal from the bath against the walls of each compartment, and means for introducing molten metal into each condenser compartment and means for removing molten metal therefrom, a combination therewith of temperature control means for cooling the bath of molten metal in the first condenser compartment, and heat insulating means for preventing excessive cooling of the last condenser compartment so as to maintain the molten metal in the first compartment at a higher temperature than the bath of molten metal in the last condenser compartment without lowering below its melting point the zinc which is removed from the condenser with the metal of the last condenser compartment.

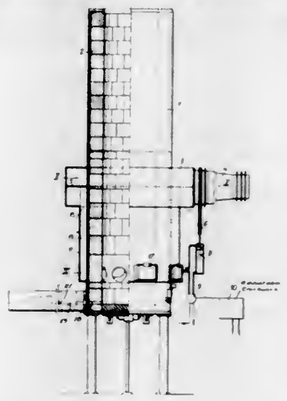
2,668,047
PRODUCTION OF ZINC
Stanley Robson, Enfield, and Leslie Jack Derham, Severn Beach, England, assignors to The National Smelting Company Limited, London, England, a British company
Original application March 11, 1949, Serial No. 80,916. Divided and this application February 4, 1950, Serial No. 148,065
8 Claims. (Cl. 266—15)



1. Smelting apparatus including, in combination with means for producing gases containing vapor of the smelted metal and a separator in which a quiescent body of a molten solution of the smelted metal in a second metal is accumulated, a condenser comprising a closed chamber having a gas-mixture inlet receiving the vapor-bearing gases from the producing means, a spent-gas outlet, an inlet receiving solution partially stripped of the solute metal from the separator, an internal trough elevated above the last-mentioned inlet, an outlet communicating with the trough and delivering solution enriched in the solute from the trough to the separator, and mechanical means for showering the solution inside the chamber, whereby the solution becomes enriched in the solute metal by condensation and solution from the vapor contained in the gases, and for raising some of the enriched solution into the trough.

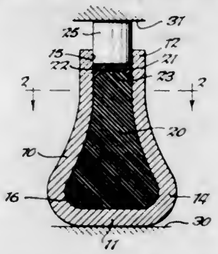
2,668,048
FOUNDRY CUPOLA
Robert André Marcel Ronceray, Thiais, France
Application October 25, 1950, Serial No. 191,955
Claims priority, application France September 25, 1950
2 Claims. (Cl. 266—30)

1. An improvement in foundry cupolas comprising a cupola, an airbox surrounding the middle portion of said cupola, a partition extending transversely of and within said airbox and separating said box into two sections positioned one above the other, an air inlet duct connected to said airbox and in communication with both of said sections, a shutter slidably mounted between said duct and said airbox and having an opening capable of placing said duct in communication with one of said airbox sections at a time according to the position of said shutter, a pneumatic jack connected to said shutter for operating the same, a clockwork mechanism operably connected to said jack for automatically operating same, a plurality of tuyères provided through said cupola all on the same horizontal plane below said air box, a plurality of vertical conduits connecting alternate tuyères to one of said airbox sections, and a second plurality of



vertical conduits connecting the remaining tuyères to the other of said airbox sections.

2,668,049
SPRING UTILIZING A COMPRESSIBLE SOLID
Paul H. Taylor, Grand Island, N. Y., assignor to Wales-Strippit Corporation, North Tonawanda, N. Y., a corporation of New York
Application April 16, 1952, Serial No. 282,512
10 Claims. (Cl. 267—1)

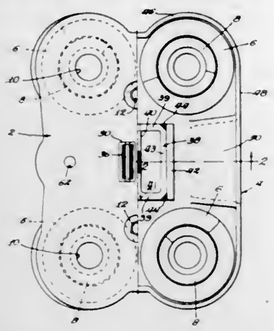


1. A spring comprising a hollow container having a chamber therein which is closed at one end and which is open at its other end, a piston reciprocable through the open end of said chamber, and a compressible, solid plastic member interposed between said piston and the closed end of said chamber, said chamber being of greater diameter adjacent its closed end than adjacent its open end, said spring being adapted to be preloaded for use so that said plastic member is distorted elastically to fill said chamber, whereby under further working load the volume of said plastic member is reduced to stored energy to effect return of said piston upon release of said working load.

2,668,050
SPRING GROUP
Robert B. Cottrell, Chicago, and Arthur T. Richardson, Jr., St. Charles, Ill., assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application April 12, 1949, Serial No. 87,046
8 Claims. (Cl. 267—9)

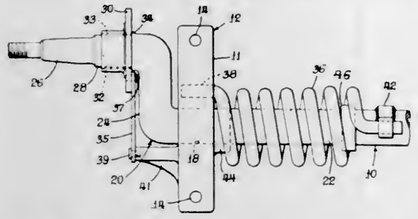
1. A package spring group comprising spaced spring plates, a plurality of springs confined therebetween, a friction post carried by one plate, an opening extending through said one plate and

through said post from end to end thereof, spaced slots through the other plate, a U-shaped strap insertable through said opening and having spaced legs insertable into respective slots, means securing said legs in said slots, friction means car-



ried by said other plate for frictional engagement with the post, and means connected to the post within said opening and disposed between said legs for engagement with the strap to limit expansion of the group.

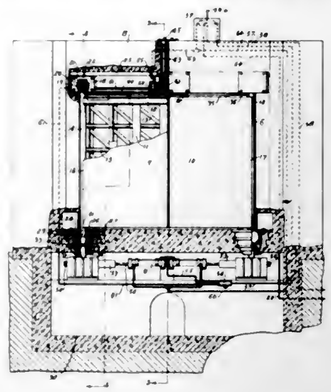
2,668,051
AXLE ASSEMBLY
Albert F. Seelig, Jr., Granite City, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application April 8, 1952, Serial No. 281,109
2 Claims. (Cl. 267—58)



1. In an axle assembly for supporting a related vehicle body, a bearing block connected to the body, a main shaft journaled for rotation in the block, a throw integrally formed with the shaft outboardly of the block extending transversely of the shaft on one side thereof, a spindle integrally formed on the throw at a point remote from the shaft and directionally paralleling same, a brake stator rotatably mounted on the spindle, a lug on the block spaced from the main shaft on a side thereof opposite the throw, a link having its opposite ends pivotally connected to the lug and the stator respectively, said link being bowed upwardly intermediate its ends to accommodate rotation of the throw to a vertical position.

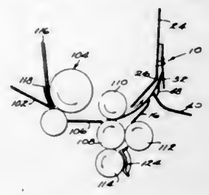
2,668,052
MAXIMUM SECURITY DOOR
Paul S. Johnson, Newington, Conn.
Application January 13, 1950, Serial No. 138,295
4 Claims. (Cl. 268—64)

3. In a gate comprising a wall having an opening therein, the combination of a door hingedly mounted for opening and closing said opening, a spring bar secured adjacent to the hinged side of said door and running along the top edge of the door towards the opposite side thereof, a locking bolt engageable with said spring bar at a position adjacent to said opposite side of the door



and yieldingly locking the door in a closed position, and cooperating means for moving said bolt to locked and unlocked positions and opening and closing said door.

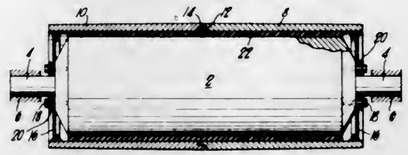
2,668,053
ENVELOPE FLAP OPENING DEVICE
John William Bach, Port Chester, N. Y., assignor to Pitney-Bowes, Inc., Stamford, Conn., a corporation of Delaware
Application December 7, 1950, Serial No. 199,712
19 Claims. (Cl. 270—68)



1. An envelope flap opening machine comprising a deviated guide chute; means for thrusting an envelope, flap edge foremost, in one direction into said chute whereby the envelope is bent to space the free end of the flap from the body of the envelope; a flap stripping member located at the convex side of the chute positioned to come between the convex face of an envelope in the chute and the spaced free end of the flap; means arresting the envelope in the chute after the stripping member has been passed by the edge of the flap and means for withdrawing the envelope from the chute in the opposite direction, whereby the stripper lays the flap back away from the envelope body.

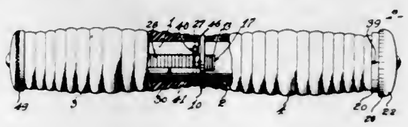
18. The method of continuously opening envelope flaps using a four roller buckle folder having a center roller and three outer rollers, which comprises placing a deflector between one pair of outer rollers; feeding each envelope, flap surface towards the center roll and flap edge foremost, between the center roll and the remaining outer roll other than said pair; arresting the leading edge of said envelope at a location such that the envelope is slightly buckled when fully fed from between said center roller and said remaining roller; simultaneously deflecting the travel of said envelope so that the latter is compelled to buckle towards the adjacent roller of said pair of outer rollers and with its flap surface convexed, whereby when the trailing edge of the envelope is free of said remaining roller, it will be carried along by said center roller, will snap into the nip formed between said central roller and said adjacent roller and will be fed in a withdrawal direction thereby; and stripping the flap to open position as the envelope is withdrawn from said location.

2,668,054
APPARATUS FOR POSITIONING STRIP
Edwin T. Lorig, Ross Township, Allegheny County, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application January 25, 1951, Serial No. 207,808
3 Claims. (Cl. 271—2.6)



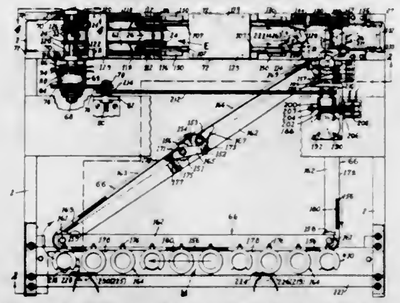
2. Apparatus for automatically centering a moving object comprising a rotatable core, a pair of opposed spaced apart frusto-conical rotatable rims over which the object passes, the large diameter ends of said rims being adjacent each other, a flexible web connecting the outer end of each rim to the core for rotation therewith, the large diameter ends of said rims having overlapping portions, and a resilient liner between the core and rim permitting the rims to tilt toward the axis of rotation progressively at the points of contact with the moving object.

2,668,055
WRIST EXERCISER
Lewis Sharp and Albert Sharp, Huntington Park, Calif.
Application September 19, 1950, Serial No. 185,544
11 Claims. (Cl. 272—68)



1. A portable wrist exerciser comprising two cylindrical tubular members placed end to end and of substantially uniform diameter throughout the length of the exerciser, means seatable within said members to maintain the members axially interconnected for relative rotation in opposite directions, said means including a stem within one member extending a distance into the other member, the latter having axially directed recesses in the inner end thereof, a series of discs on said stem held against rotation within the recess of said other member, a series of friction washers between said discs and held against rotation on said stem, and externally operable means connected with the stem for moving said discs and washers into frictional engagement with each other thereby increasingly to resist relative rotation of the two members.

2,668,056
BOWLING PIN CONVEYING AND ASSEMBLING MECHANISM FOR BOWLING PIN SETTING MACHINES
Rupert E. Rundell, Rockville Centre, and Peter M. Nejedly, Brooklyn, N. Y., assignors to American Machine and Foundry Company, a corporation of New Jersey
Application October 31, 1947, Serial No. 783,348
18 Claims. (Cl. 273—43)



1. In a bowling pin spotting machine, a pin loading station, a pin delivery station, an endless conveyor mounted for movement along a substantially triangular path of movement, a plurality of pin receiving and supporting holders mounted in fixed spaced relation along said conveyor, means for advancing said conveyor step by step to position holders successively at said loading station for delivery of a pin thereinto, means operative during said step by step movement of said conveyor for delivering a vertically positioned pin to each of said holders, control means operative when each of said holders contains a pin for causing said means to move said conveyor continuously to position all of said loaded holders at said pin delivery station, and means operative in response to the arrival of all of said loaded pin holders at said delivery station for stopping the movement of said conveyor.

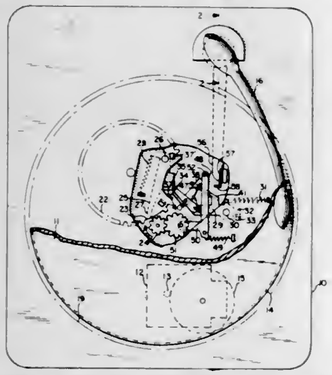
2,668,057
SIMULATED TENNIS GAME
Benjamin W. Fry, Ladue, Mo.
Application August 2, 1950, Serial No. 177,234
4 Claims. (Cl. 273—85)



1. A table game construction comprising side walls and end portions defining a rectangular playing area, a hurdle bar extending crosswise between the side walls substantially midway between said end portions, ungrooved ball-serving platens having adjacent marginal jump portions spaced from said bar and sloping downward toward said end portions, groups of finger-operated ball-projecting bats pivoted near the lower ends of the platens, said bats having ball-engaging bat faces, means biasing each bat to a normal position, a ball-receiving recess below said faces of a group of bat faces and at the lower margins of the platens respectively, the normal positions of the bats allowing an unbatted ball to escape from the adjacent platen to a point below the bats, an interlock mechanism between the individuals of the respective bat groups preventing operation at one time of all except one of the in-

dividuals, whereby only one bat at a time may be operated to project a ball up a platen, and whereby a batted ball will move up a platen indeterminately as to speed and angle so as to reach the jump portions with or without engaging the hurdle bar, thus either to roll back down the platen or to jump the hurdle and drop down onto the other platen for indeterminate descent to the other group of bats, with or without engaging the side walls.

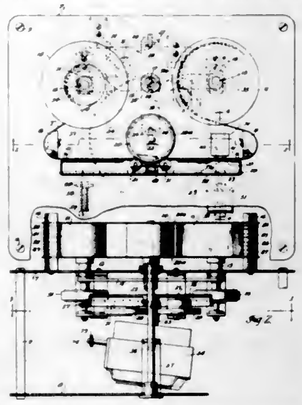
2,668,058
CHANGE-CYCLE INITIATING MECHANISM FOR AUTOMATIC PHONOGRAPHS
Ralph A. Mullaney, Elmwood Park, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application October 6, 1950, Serial No. 188,677
6 Claims. (Cl. 274—1)



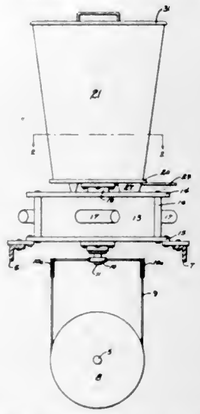
1. A change-cycle initiating mechanism for an automatic phonograph having a record-tracking tone arm and a driven element which is driven only during a record-changing cycle, said initiating mechanism comprising: an actuator displaceable from a normal position to an actuated position in which a driving connection is completed to said driven element; a trip member movable from a first position through an intermediate position to a second position in which said member is effectively mechanically locked to said actuator; means for biasing said trip member toward said first position, said biasing means being effective only when said member is between said first and intermediate positions; a lever for engaging said trip member to displace said member through said intermediate position and toward its aforesaid second position in response to the completion of a record-playing cycle by said tone arm; a striker movable along a given path which intercepts said trip member when the latter is in its aforesaid second position and in a direction to displace said actuator to its aforesaid actuated position; and motor-driven means for moving said striker along said path.

2,668,059
EQUIPMENT FOR USE WITH MULTITRACK MAGNETIC TAPE RECORDS
Bruce Roberts, Philadelphia, Pa., assignor to The International Electronics Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 26, 1947, Serial No. 744,273
27 Claims. (Cl. 274—4)

1. Equipment for use with magnetic tape records, comprising a pair of tape reels between which a tape record is adapted to be fed, a tape driving capstan at one side of the path of feed of a tape between the reels, a magnetic scanning device at the same side of the path of feed of a tape, and displaceably mounted tape backing means at the opposite side of the path of a tape including a backing element positioned to engage a tape opposite to the driving capstan for retaining a tape in engagement with the driving capstan, the backing means further including a backing element connected with the first backing element to move unitarily therewith and positioned to engage a tape opposite to the scanning device for retaining a tape in engagement with the scanning device.

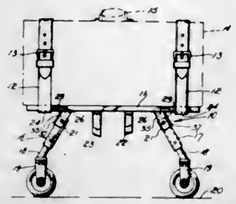


2,668,060
COMBINED DUSTING AND BROADCASTING MACHINE
James C. Tygart, Nashville, Ga.
Application April 12, 1952, Serial No. 282,033
3 Claims. (Cl. 275—2)



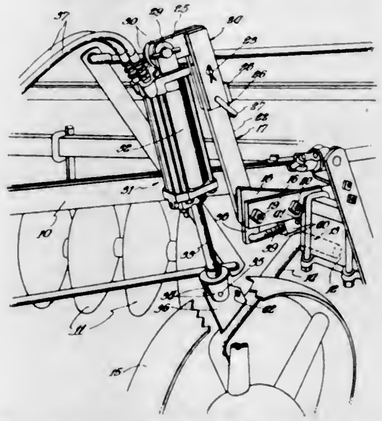
1. A combined dusting and broadcasting machine comprising a hopper, a pair of spaced horizontally disposed plates below said hopper, a vertical, driven shaft, a plurality of blades carried by said shaft and disposed between said spaced plates, means for feeding material from the hopper to the space between said plates, a circumferential shell having outlet pipes in its sides and dimensioned to fit between said spaced plates and to there constitute together with said plates a fan housing within which said blades operate as a fan and means independent of the shell for maintaining said plates in position irrespective of the presence of the shell.

2,668,061
COLLAPSIBLE AND EXTENSIBLE LUGGAGE CARRIER
Edward G. Kuda, Brookfield, Ill.
Application March 23, 1953, Serial No. 343,850
7 Claims. (Cl. 280—35)



1. Collapsible and extendible luggage carrier means, comprising a luggage supporting platform, a pair of adjustable straps secured adjacent each end of the said platform and adapted to encircle and confine luggage of varied dimensions, leg supporting bracket means secured to the bottom of the said platform, leg means articulately secured to the said bracket means and arranged to diverge outwardly from the center of the said base and disposed in triangular formation, swivel casters attached to the termini of the said leg means, slotted transverse recesses on the top surface of the said platform, and hinged extensions secured in the said recesses adapted to be extended to increase the width of the said platform for supporting a greater number of pieces of luggage.

2,668,062
VEHICLE TRAILER WITH DEMOUNTABLE HYDRAULIC LIFT
William D. Drummond, Burlington, Ontario, Canada, assignor to International Harvester Company, a corporation of New Jersey
Application August 31, 1951, Serial No. 244,675
10 Claims. (Cl. 280—44)



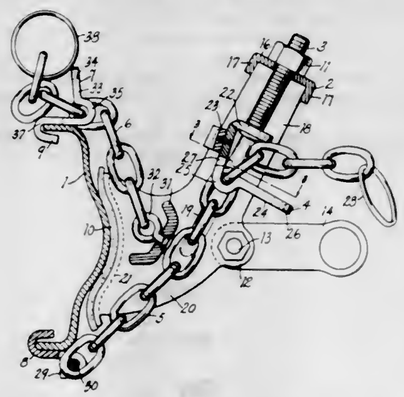
1. For use with a vehicular structure having a frame, a wheel-carrying axle mounted on the frame for movement relative thereto, and a ram unit for moving the axle: mounting mechanism for the ram unit comprising means serving as a generally vertically extending supporting bracket carried on the frame, a pair of spaced links pivotally mounted on the upper and lower portions of said bracket, a releasable connecting member connecting the lower of said links to the axle to lock the latter against movement relative to the frame, and a member connecting one end of the ram unit to the axle and the other end to the upper of said pivoted links, said releasable connecting member being optionally operable, upon release of the lower link from the axle, to lock the upper of said links against pivoting.

2,668,063
VEHICLE TOW LINE
Benjamin L. Thompson, Springfield, Colo.
Application December 4, 1950, Serial No. 198,954
2 Claims. (Cl. 280—415)



2. In combination, a tow line and means for selectively fastening the tow line to an axle and a bumper, said means comprising a first elongated flat plate secured at one end to the end of said tow line, the other end of said plate being bent upon itself and constituting a first channel shaped hook, a second elongated flat plate, means slidably and rotatably mounting said second plate at one end thereof on said tow line, the other end of said second plate being bent upon itself and constituting a second channel shaped hook, the web of one of said channel shaped hooks having a central aperture therein, and a lug projecting from the edge of the rebent portion of the other of said hooks interengaged with said central aperture when the hooks intergrippingly engage one another for fastening a portion of the tow line in encircling engagement with an axle, said hooks being in opposed gripping relation to one another for fastening the tow line to a bumper.

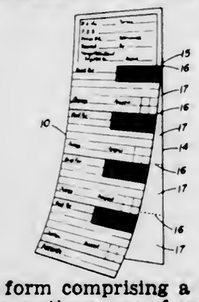
2,668,064
COUPLING HEAD FOR ATTACHING TOWING DEVICES TO BUMPERS OF AUTOMOBILES
Warren E. Bolling, Spring Lake, Mich., assignor to Max Hayman, Battle Creek, Mich.
Application March 22, 1952, Serial No. 278,099
5 Claims. (Cl. 280—502)



1. A coupling head for attachment to the bumper of a vehicle comprising a U-shaped folded sheet metal body having generally parallel integral leg portions on the free ends of the

branches thereof and extending at an angle from a plane passed transversely through the branches of said body, transversely turned integral feet on the ends of said leg portions, said feet and the ends of said leg portions having a concavo-convex conformation relative to said plane and being adapted to abut the surface of a bumper, the end cross piece of said body having a flat central portion with a hole formed therein, a bolt passed through said hole and having a nut on its outer end bearing against said flat central portion, a U-shaped folded sheet metal clip disposed between the branches of said body and opening oppositely from said legs, said clip having arms disposed normally to said branches with the upper arm fixedly secured to the inner end of said bolt for sliding motion between said branches, the lower arm of said clip having a downwardly offset transversely extending seat formed therein adjacent the base of the clip, said lower arm of said clip having an aperture formed therein with an enlarged portion at the outer end of the arm and a narrow slot like portion extending through said seat, a first chain passed through said aperture and having links of minor diameter capable of passing through the enlarged portion of said aperture and of a thickness slightly less than the width of said slot, a ring on the upper end of said chain of larger diameter than said aperture, a hook fixedly secured to the lower end of said chain, a cross plate fixedly connected to the case of said clip and extending into lapped sliding engagement with the edges of the branches of said body opposite from the arms of said clip, a cross member fixedly connected between said leg portions adjacent their junction with the branches of said body and below said clip, an eye element swivelly connected to said cross member and extending toward said feet, a second chain having one end secured to said eye element, a second clip having angled arms with a transversely extending U-shaped seat formed near the junction thereof, one arm of said second clip having an opening formed therein with an enlarged portion receiving and passing the links of said second chain at their minor diameter and having a narrow slot extension into the seat of said second clip adapted to receive a link edgewise, a hook turned from the end of the other arm of said second clip oppositely from said one arm thereof, a ring on the other end of said second chain of larger diameter than the opening in said second clip, and means on the branches of said body and adjacent the opposite edges thereof from said leg portions for attaching said body to a towing element.

2,668,065
ACCOUNTING BUSINESS FORM
Henry W. English, Linden, and Everett E. Beeton, Fords, N. J.
Application May 15, 1950, Serial No. 162,040
1 Claim. (Cl. 282—23)



A business form comprising a paper sheet divided into two sections, one of said sections containing general accounting data, the other section containing itemized accounting data blanks, the rear of the latter section of said paper sheet provided with transfer means comprising a carbon coating, a cardboard sheet marginally attached to the rear of said paper sheet and underlying said transfer means, said cardboard sheet being subdivided by parallel lateral perforations to form detachable stubs which correspond to said itemized accounting data blanks on the face of said paper sheet, and adhesive means on the rear of said general accounting data section.

2,668,066
COUPLING MEANS FOR TUBULAR CASING
Fred F. Stadelhofer, Berkeley, Calif., assignor to Berkeley Pump Company, Berkeley, Calif., a corporation of California
Application February 10, 1951, Serial No. 210,331
1 Claim. (Cl. 285—131)

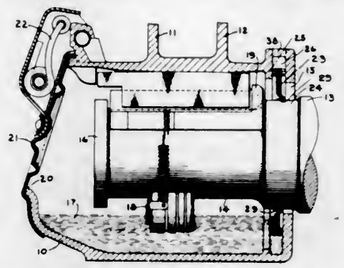


A coupling means for the adjacent ends of two sections of tubing comprising a circular relatively rigid aligning band of an internal diameter agreeing with the interior diameter of the tubing, a concentric annular sealing ring formed on and projecting from the outer periphery of the band and of an external diameter not less than the external diameter of the tubing, the ring having sealing faces on a plane transverse to the axis of the tubing and substantially spaced from the transverse ends of the band whereby the ends of the tubing may telescope over the external periphery of the band and abut against said faces, radially projecting lugs welded to the exterior of each tubular section in circular fashion and spaced circumferentially about said tubular section at a point short of the end thereof, the lugs of the adjacent ends of the tubing section being in longitudinal alignment, each of said lugs comprising a thin sheet metal strip bent in a U shape and having its legs extended toward the adjacent ends of the tubular sections, and connecting bolts connecting the lugs of the tubular sections together to form a rigid connection therebetween and to force the ends of the tubular sections into sealing contact with the sealing faces of the sealing ring.

2,668,067
RUBBER SEAL
William J. Fitzsimmons, Chicago, Ill.
Application July 11, 1950, Serial No. 173,091
3 Claims. (Cl. 286—6)

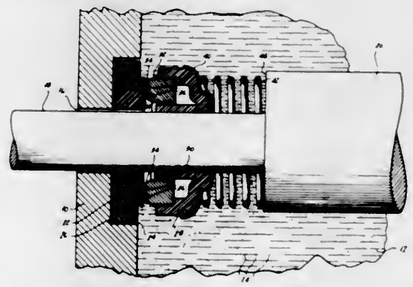
1. In a journal box assembly having an axle with a journal portion extending into the journal

box through an aperture therein, a seal disposed about said axle and in slidable sealing engagement therewith, and a plurality of substantially continuous ribs about the outer peripheral portion of said seal, said ribs being disposed in seal-



ing contact with said journal box adjacent the aperture therein, said ribs having non-adjacent cut-out portions at the top of said seal to form narrow, baffled vents from said journal box to the outer atmosphere.

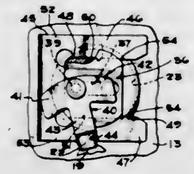
2,668,068
SEAL FOR ROTARY SHAFTS
Herbert Bredemeier, Ossining, N. Y., assignor to The Norden Laboratories Corporation, New York, N. Y., a corporation of Connecticut
Application September 8, 1949, Serial No. 114,578
8 Claims. (Cl. 286—11)



1. A rotary shaft seal including in combination a removable annular nylon seat, means for mounting said seat on the wall of the housing containing fluid to be sealed, a hard steel annular ring having a hardness of at least 200 Brinell formed with a portion of reduced cross-sectional area to provide substantially line contact with the nylon seat and surrounding the shaft to be sealed, means for mounting said ring on the shaft for rotation therewith and means for sealing the area between the inner periphery of the ring and the shaft.

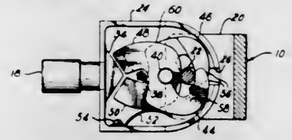
2,668,069
LATCH LOCKING CONTROL MOUNTING
Earle D. Grizzard, Los Angeles, Calif., assignor to Adams Rite Manufacturing Company, Glendale, Calif., a corporation of California
Application February 6, 1951, Serial No. 209,659
2 Claims. (Cl. 292—1)

1. In a lock: a casing side wall having a recessed opening therein; an insert having an elongate transversely extending slot, one end of said insert being adapted to seat within said recess in substantially flush relation with respect to the outer surface of said side wall, and its other end being adapted to project through said wall opening; a retaining member on the inner side of said wall engageable with the projecting end of said insert; a member having angularly



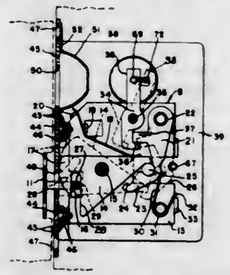
extending legs, one of said legs being grooved to receive an associated lock member therein, and the other of said legs having a projection extending into and movable in said slot.

2,668,070
LOCK MECHANISM
Nickolas Schmitt, Wolverine, Mich.
Application June 5, 1951, Serial No. 229,999
5 Claims. (Cl. 292—27)



1. A latch adapted to engage a pin comprising a frame structure having a slot formed in one end for receiving the pin, a transverse shaft mounted in said frame structure inward of said slot, a pair of oppositely disposed dogs pivotally mounted on said shaft for holding said pin, the holding surfaces of each of said dogs being substantially concentric with the axis of said shaft, a spring actuated push rod mounted in the other end of said frame structure and having its one end extending toward said transverse shaft, projections extending from said dogs to opposite sides of said one end of the push rod and adapted to be spread apart when the latter is pushed inwardly against the action of its spring to open said dogs, and spring means for biasing said dogs to a closed position.

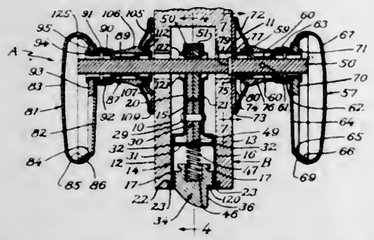
2,668,071
SLIDING DOOR LOCK MECHANISM
Arthur R. Adams, Glendale, and Earle Donnell Grizzard and Paul C. Cady, Los Angeles, Calif., assignors to Adams Rite Manufacturing Company, Glendale, Calif., a corporation of California
Application April 27, 1948, Serial No. 23,426
8 Claims. (Cl. 292—129)



4. A door lock mechanism comprising: a casing; a lock member pivoted in said casing for

swinging movements in opposite directions, said lock member containing an open ended slot; means for urging the lock member in one direction of its movement; a pivoted latch member in said casing having spaced abutment shoulders operatively associated with said lock member for limiting pivotal movement of the lock member in said one direction of two positions, the open ended slot in one of said positions being adapted to receive a keeper therein, and in the other position lock the keeper against removal from the slot; manually operable means connected with the latch member for moving it in a direction to release one of said abutment shoulders with respect to the associated lock member; and a manually actuatable lock bar associated with said latch member and supported for movement into and out of a position for opposing movement of the latch member in said direction to release said one of the abutment shoulders.

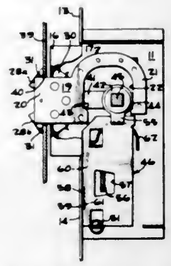
2,668,072
DOOR LATCH
Harold Walter Falk, Minneapolis, Minn., assignor to Wright Products, Inc., St. Paul Park, Minn., a corporation of Minnesota
Application February 14, 1949, Serial No. 76,230
12 Claims. (Cl. 292—165)



1. A door latch including a reciprocable latch bolt, a housing for slidably supporting said latch bolt, a shank extending transversely through said housing, latch mechanism connecting said shank and said latch bolt for reciprocating said latch bolt upon rotative movement of said shank, bearings on opposite sides of the door encircling said shank and rotatably supporting the same, flanges supporting said bearings and designed to lie against opposite surfaces of the door, and means extending through the door connecting the flanges on opposite sides thereof and resilient means carried by said shank frictionally engaging one of said bearings to retain said shank in a selected position.

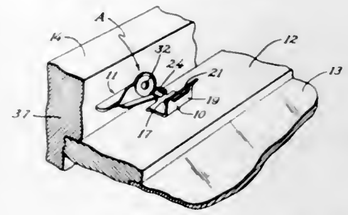
2,668,073
LATCH MECHANISM
Frank R. Collar, Los Angeles, and Jack C. Mitchell, La Crescenta, Calif., assignors to Adams Rite Manufacturing Company, Glendale, Calif., a corporation of California
Application February 27, 1951, Serial No. 212,971
2 Claims. (Cl. 292—192)

1. A lock for doors of the folding type, comprising a casing having a side slot therein; a bolt having a straight portion at one end positioned for movement in said slot, and a transverse shoulder at its other end; a rotatable arm positioned adjacent said shoulder and cooperable therewith to reciprocally move said bolt, said arm being movable into a position normal to said shoulder so as to positively hold said bolt against inward movement; jaws carried by said one end for engaging a keeper when the bolt is reciprocated to a predetermined position of extension from said slot; means for manually rotating said arm; a shouldered part connected to said arm in projecting relation thereto and so as to rotate therewith; and a locking member movably supported by said casing so as to be moved toward



and away from said shouldered part and having a shouldered portion positioned so as to engage said shouldered part when said arm is in a position normal to said shoulder, thereby locking said arm in said position.

2,668,074
WINDOW FASTENER
Harold Walter Falk, Minneapolis, Minn., assignor to Wright Products, Inc., St. Paul Park, Minn., a corporation of Minnesota
Application May 26, 1950, Serial No. 164,443
2 Claims. (Cl. 292—241)

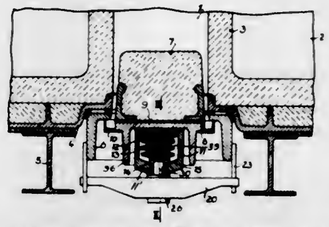


1. A locking lever for use in conjunction with a window fastener including an elongated flat lever body, a substantially circular off-set portion at one end thereof having an aperture extending centrally therethrough for accommodation of a pivot member, said off-set portion being on a plane parallel to, and spaced from, the plane of said body, a locking flange along one longitudinal edge of said lever, said flange having a curved end adjoining the lever adjacent to said circular off-set portion, said flange being perpendicular to the general plane of the lever, and a second flange projecting from said lever body along the opposite longitudinal edge thereof adjacent the other end of the body.

2,668,075
COKE OVEN DOOR
Paul van Ackeren and Franz Doll, Essen, Germany, assignors, by mesne assignments, to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware
Application November 16, 1951, Serial No. 257,624
20 Claims. (Cl. 292—259)

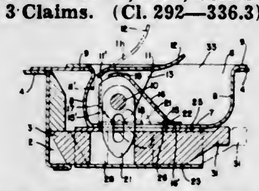
1. In a coke oven door latching mechanism, the combination with a coke oven door and door retainer means therefor mounted exteriorly of a coke oven, of a door latch for securing the coke oven door to the retainer means which latter is

mounted exteriorly of the door and which latch is movable relative to the door and to the retainer means for securing and releasing the door, a spring normally urging the latch and door from each other for effecting the securing pressure between the door and the retainer means, and a support for the spring on the exterior of the door for supporting the spring on the outside of the door in position to effect pressure movement of the latch and door from each other in opposite directions to secure them in place by the



retainer means; and a fluid pressure-operated compression device at the exterior of the door and operable on the spring means to relieve the latch of such spring pressure for release of the door from latching pressure relation with the latch and the retaining means therefor, said compression device comprising a fluid pressure chamber and a thrust member extending directly between the fluid pressure chamber and the spring means and movable by fluid pressure in said chamber in a straight line motion.

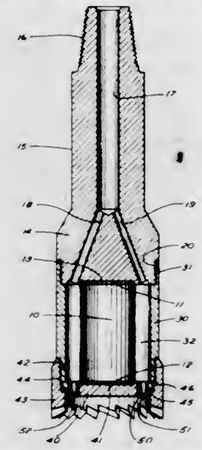
2,668,076
LOCKING-BOLT OPERATING STRUCTURE
Herman J. Troche, Fairview Park, and James Howard Holan, Rocky River, Ohio, assignors to J. H. Holan Corporation, Cleveland, Ohio, a corporation of Ohio
Application October 17, 1951, Serial No. 251,758
3 Claims. (Cl. 292—336.3)



1. A locking-bolt operating structure, for use with a closure having a recess breaking its surface, the combination therewith of a cup-like liner seated in the recess and having a base, a side wall, and a marginal portion abutting the outer face of the closure, a housing structure having a front wall mounted on and secured to the liner base, the housing structure also having opposed end walls, a pin rotatably mounted in the housing end walls, the housing having also an open inner side, bolt-actuating means connected to the pin and extended through the open side of the housing, and a finger pull having an exterior surface substantially flush with the marginal portion of the liner, the finger pull having flanges extended into the liner and secured to the pin adjacent the respective ends of the latter.

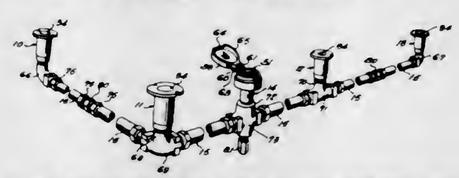
2,668,077
MAGNETIC FISHING TOOL
John H. Kirby II, Houston, Tex.
Application July 30, 1952, Serial No. 301,682
30 Claims. (Cl. 294—65.5)

16. A magnetic fishing tool comprising an elongated permanent magnet core having an upper end and a lower end, a tubular sleeve of magnetic material disposed around said core, a tubular sleeve of nonmagnetic material disposed between and separating said core and said sleeve of magnetic material, said sleeve of magnetic material having an upper end disposed adjacent the upper end of said core and a lower end disposed adjacent to the lower end of said core, a bridge of magnetic material extending over the top of said non-magnetic material sleeve and connecting said core and said magnetic material sleeve at the upper ends thereof, said core, bridge, and magnetic material sleeve forming a portion of a



magnetic path, there being a magnetic pole at the lower end of said core and an opposite polarity magnetic pole at the portion of said magnetic material sleeve disposed adjacent to the lower end of said core, said opposite polarity magnetic pole being disposed around said core pole, means to connect said tool to a source of fluid, means to discharge fluid from said tool near the level of the lower end of said core, and means forming an annular passage outside said core and said nonmagnetic shell and including said magnetic material sleeve as a wall thereof to conduct fluid from the first said means to the last said means.

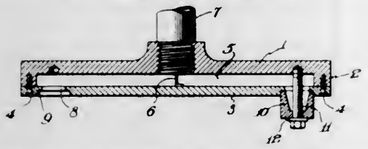
2,668,078
UNDERGROUND SPRINKLER SYSTEM
Max E. Snoddy, Dallas, Tex.
Application September 1, 1950, Serial No. 182,705
2 Claims. (Cl. 299—60)



1. In an underground sprinkling system composed of a plurality of spray heads connected to a common water conduit and normally not protruding over the surface of the ground; a water inlet means comprising a tubular body having an enlarged and interiorly threaded upper end and connected at its lower end to said common water conduit, said inlet means normally not protruding over the surface of the ground; a collar receivable in the threaded upper end of said body having a bore provided with an axial bore and diametrically opposed slots communicating with said groove, a tubular hose

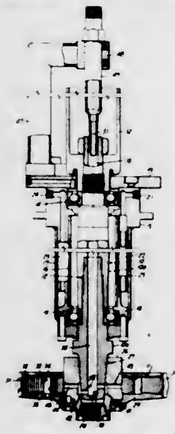
connector having diametrically opposed ears, said hose connector being adapted to engage in telescoping relation in said water inlet means whereby said ears will lockingly engage in said annular groove through said slots, a hose engaging means carried by the upper end of said hose connector, said hose connector communicating with the interior of said common conduit when telescoped in said inlet means; and water sealing means within the threaded upper end of said tubular body and embracing said base connector below said collar.

2,668,079
DIRECTIONAL ATOMIZATION
Robert L. Menegus and Samuel J. Friedman, Wilmington, Del., and Frank A. Gluckert, West Chester, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application June 21, 1949, Serial No. 100,386
12 Claims. (Cl. 299—63)



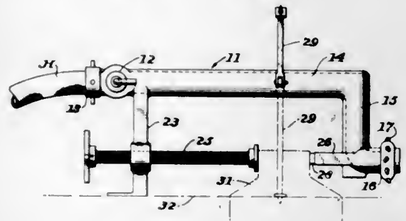
3. Apparatus for the atomization of substances having a continuous liquid phase comprising a rotatable shaft, a hollow casing secured thereto, means for the supply of feed material to said casing, ejection passages located near the periphery of said casing with their axes lying in planes tangent to a circle drawn about the axis of said shaft as a center, said ejection passages being inclined downwardly at an angle between about 1½° and 60° measured from the horizontal with discharge openings oriented in a direction opposite to that of rotation.

2,668,080
CENTRIFUGAL ATOMIZER
David D. Peebles, Hillsborough, and Clarence P. Turner, Petaluma, Calif., assignors to Western Condensing Company, San Francisco, Calif., a corporation of California
Application March 13, 1950, Serial No. 149,286
2 Claims. (Cl. 299—63)



1. A centrifugal atomizer suitable for use with spray driers of the type having a drying chamber into which hot drying gas is introduced, the atomizer comprising a mounting collar for attachment to an upper wall of the drying chamber, a vertical shaft extending through said collar, bearing means carried by the collar for journalling the shaft, a hollow centrifugal atomizing head carried by the lower end of the shaft within said chamber, said shaft being provided with a bore extending longitudinally within the same, the upper end of the bore being open to the atmosphere exterior of the chamber and the lower end of the bore being in communication with the interior of the atomizing head, and a stationary feed supply nozzle mounted above said collar and extending downwardly for a substantial distance into the bore from the upper end thereof, said nozzle serving to discharge a downwardly directed jet of feed material into said bore.

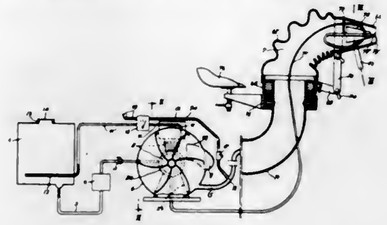
2,668,081
WATER SHIELD
Jack C. Kanter, Norfolk, Va.
Application August 3, 1951, Serial No. 240,136
4 Claims. (Cl. 299—69)



1. A fire preventing spraying apparatus including a support having an intermediate portion and angularly disposed end portions, a fluid nozzle connected to apparatus, said nozzle including a rotary cylindrical housing having circumferentially spaced discharge outlets located to rotatably drive the nozzle and to effect a circular water curtain disposed substantially parallel to a predetermined surface to be protected from fire, means for connecting the nozzle to a source of fluid under pressure, spaced coacting clamping members connected to the end portions of said support for engaging a fixed member therebetween, to maintain the apparatus in a stationary position, and means pivotally connected to opposite sides of said intermediate portion for engaging a supporting surface.

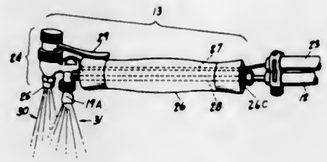
2,668,082
ATOMIZING APPARATUS, PARTICULARLY FOR ARBORICULTURE AND AGRICULTURE
Louis Pasteur, Versailles, France
Application July 14, 1949, Serial No. 104,633
Claims priority, application France November 16, 1948
6 Claims. (Cl. 299—86)

1. Atomizing apparatus particularly for arboriculture and agriculture comprising a pump, a centrifugal blower, an internal combustion engine including a shaft common to said pump and said blower for driving said pump and blower, a tank for containing an insect destroying product, a connection between said tank and the inlet of said pump, a mixing device in said tank and connected to said engine, a duct connected to the outlet of said centrifugal blower, a duct connected to the outlet of the pump and leading to the duct connected to the centrifugal blower, and an adjustable spraying nozzle connected to



the end of the duct connected to the centrifugal blower.

2,668,083
DOUBLE JET SPRAY GUN
Herman C. Kirchner, Louisville, Ky., assignor to W. M. Cisseli Manufacturing Company, Incorporated, Louisville, Ky., a corporation of Kentucky
Application July 7, 1950, Serial No. 172,468
1 Claim. (Cl. 299—112)



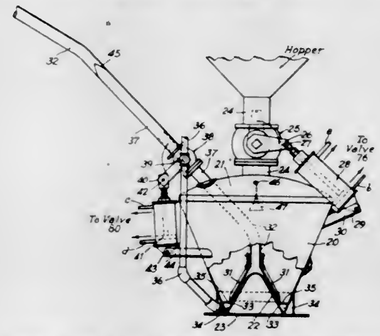
In a spray gun, the combination of a spray head having a casing and a spray nozzle, a tubular handle having one end thereof closed by a header member, means mounting said spray head upon said handle comprising a metal tube having one end thereof rigidly secured to said header and the other end rigidly secured to a side-wall portion of said casing, the axis of said tube being substantially parallel with the axis of said handle and the axis of said nozzle being substantially at right angles to the axis of said tube, a second spray head secured to said tube at an intermediate point thereon and having its nozzle axis extending parallel with the nozzle axis of said first spray head, a supply conduit for said first spray head located within said handle and passing through said header, through said tube and into the casing of said first spray head, and a second supply conduit located within said handle and passing through said header and being connected to said second spray head.

2,668,084
ATOMIZING DEVICE
Millard F. Saxton, Flint, Mich., assignor to The Engineered Products Co., Flint, Mich., a corporation of Michigan
Application August 17, 1950, Serial No. 180,051
9 Claims. (Cl. 299—120)



2. In an atomizing device, a housing, a plate in said housing, said plate having a passageway extending therethrough, said passageway being of conical shape at one end and being ensmalled to form a cylindrical orifice at the other end, the face of said plate adjacent the conical portion of said passageway being substantially flat and having a plurality of triangular slots therein extending from the periphery of said flat face at the outer end to the conical portion of said passageway at an angle inclined toward said face of said plate, and means within said housing presenting a wall portion closing the conical end portion of said passageway and forming passage means for admitting liquid to said slots adjacent the outer end thereof, said slots being inclined toward said wall at their inner ends whereby the liquid flowing therethrough is caused to impinge against said wall portion as the liquid enters said conical passageway.

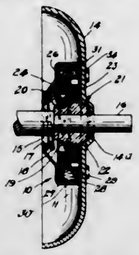
2,668,085
ACTIVATOR CONTROL
Charles A. Baresch, College Point, N. Y., assignor to Morse Boulger Destructor Company, New York, N. Y., a corporation of Delaware
Application January 24, 1951, Serial No. 207,466
11 Claims. (Cl. 302—53)



1. Apparatus for transporting sequentially a plurality of batches of finely divided material from a store comprising an activator container adapted to be loaded by gravity; an inlet duct for said container extending from said store; a gate for said inlet duct; an outlet duct extending from said container to a distant station; a source of compressed air; a compressed air duct connected to said container; an openable and closable compressed air valve in said compressed air duct; a pneumatic ram for opening and closing the gate of said inlet duct; another pneumatic ram for opening and closing said compressed air valve; a position sensitive switch in said container adapted to close when displaced by a predetermined amount of material loaded into said container; a pressure sensitive switch adapted to close in response to more than a predetermined amount of pressure in said container; a first magnetic valve for introducing air to the first-mentioned ram for closing the gate of said inlet duct when said position sensitive switch closes; another switch adapted to be closed in response to operation of said first-mentioned ram; a second magnetic valve controlled by said last-named switch for introducing compressed air to the second-mentioned ram for opening said compressed air valve and introducing compressed air into said chamber through said compressed air duct; means for closing said magnetic valves upon a diminution of pressure within said container, said means being actuated in response to an opening of said pressure sensitive switch, and another normally closed pressure sensitive switch within said con-

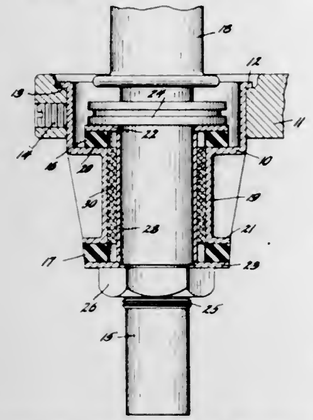
tainer adapted to open in response to more than another predetermined pressure within said container for the purpose of deenergizing said valves.

2,668,086
LUBRICANT CONTAINER FOR BEARINGS
Robert G. Marzolf, Snyder, N. Y.
Application October 19, 1951, Serial No. 252,160
13 Claims. (Cl. 308—132)



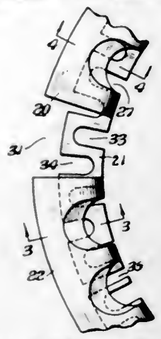
1. In a bearing structure, a housing adapted to be secured to a casing, a bearing element of oil pervious material mounted within said housing, a washer of fibrous, oil-absorbent material surrounding said element, and an annular lubricant container within said housing, said container having a wick extending from the interior of said container into contact with said fibrous material.

2,668,087
SPINDLE MOUNTING
Dimitri G. Soussloff, Warwick Neck, Warwick, and Hans H. Wormser, Providence, R. I., assignors to Universal Winding Company, Cranston, R. I., a corporation of Massachusetts
Application April 25, 1951, Serial No. 222,836
3 Claims. (Cl. 308—152)



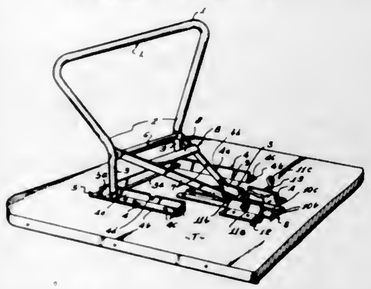
1. A vibration isolating spindle mounting comprising an annular shell having two spaced, parallel surfaces, two annular rubber rings bonded on one surface, respectively, one to each of said parallel surfaces, two annular members bonded, respectively, one to each of another surface of each said rubber ring, a spindle step positioned to extend through the said shell, rubber rings and annular members, a spacing sleeve closely encircling a portion of said spindle step and abutting at its ends the mutually facing surfaces of said annular members, means supported on said spindle step for releasably securing said spindle step to the oppositely facing surfaces of said annular members, and compressible conductive means interposed between and contacting said spacing sleeve and said shell.

2,668,088
PISTON RING AND EXPANDER THEREFOR
Hsia-Si Pien, Drexel Hill, Pa., assignor to Wilkening Manufacturing Company, Philadelphia, Pa., a corporation of Delaware
Application March 20, 1948, Serial No. 16,054
5 Claims. (Cl. 309—29)



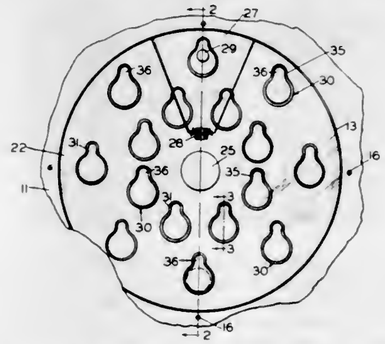
1. For use with a flexible but relatively non-resilient one-piece piston-ring having an annular groove formed in its inner periphery, a non-bottoming expander-spring comprising a trans-split annulus of resilient metal or the like which is radially-corrugated and which has its free ends constructed and arranged to be maintained in generally abutting relationship so that, when compressed, the expander-spring will provide generally uniform radially-outward pressure, the corrugations providing substantial circumferential clearances at the inner periphery of said expander-spring thereby to allow appreciable compression of said expander-spring without metal-to-metal contact at said inner periphery, the axial dimension of the expander-spring being somewhat less than that of the piston-ring groove whereby slight axial clearances are provided intermediate the expander-spring and the walls of the groove.

2,668,089
FOLDING TABLE
Charles V. Cowan, Sacramento, Calif.
Application January 31, 1952, Serial No. 269,284
1 Claim. (Cl. 311—87)



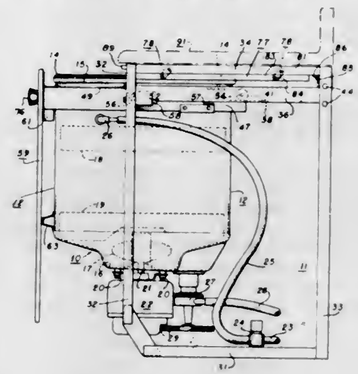
A folding table comprising: a flat top, a pair of legs formed to provide horizontal sections paralleling corresponding margins of said top and adapted to rest upon a suporting surface and having spaced lateral sections extending inwardly from their junctions with the horizontal sections with their inner ends parallel and spaced apart at distances substantially less than the length of the horizontal sections, devices for hingedly attaching said legs at their parallel inner ends to the lower surface of said table, slides movable on said table in a direction at a right angle to the axes of said lges and linked to said legs, and latches automatically engageable with different portions of said slide as the legs are swung on their axes to table supporting and retracted positions close to and beneath the table, respectively, devices at opposite sides of said slides for rotatably supporting said latches, said latches having portions offset from their axes of rotation adapted to overlie and engage said slides during the movement of the slides between leg extension and leg retraction positions and to engage different end surfaces of the slides at the completion of each forward and reverse stroke of each slide for holding the legs in different positions.

2,668,090
EGG STORAGE AND DISPENSING DEVICE
Elmer B. Derr, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application April 3, 1951, Serial No. 218,937
7 Claims. (Cl. 312—242)



1. A food container and dispensing device of the character adapted for positioning within a recess formed in a vertical wall structure fashioned with spaced apart inner and outer panels with thermal insulation therebetween and with an opening in the inner panel that registers with the recess thereof, comprising: a circularly-shaped magazine having one end thereof open, and having a peripherally extending flange projecting outwardly from the edge of said opening; said magazine being adapted for removable positioning wholly within the recess and between the inner and outer panels of the wall structure with the opening in said magazine in axial alignment with the opening in the inner panel, and with said peripheral flange abutting the inner panel adjacent the opening therein; a plurality of individual containers having one end thereof open and being arranged in two concentric staggered rows and adapted for retaining food articles placed therewithin; said containers being positioned wholly within and removably affixed to said magazine and with the open end of each container facing the opening in said magazine; means associated with each of said individual containers to facilitate the manual removal of food articles therefrom; a cover member rotatably mounted on a horizontally extending pedestal support affixed to said magazine and disposed so as to provide simultaneously a closure for the open end of said magazine and a shield to prevent food articles from accidentally being removed from said individual containers; said cover having an opening therein alignable selectively with the opening in each of said individual containers through which cover opening food articles may be placed into and removed from each of said containers.

2,668,091
WASHING APPARATUS
Earl K. Clark, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 30, 1949, Serial No. 118,961
5 Claims. (Cl. 312—270)

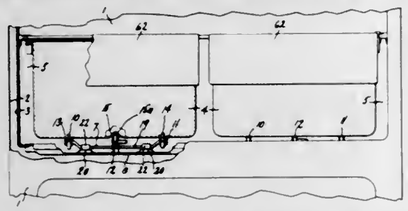


3. In combination, a frame having an opening in the front side thereof, a vat having an access opening in its top side, means for supporting the vat from the frame and providing for horizontal movement of the vat through said front opening between an operating position within the frame and a position at least partly outside the frame, a cover for closing said access opening, means for supporting said cover in substantially horizontal position in said frame and providing for movement of said cover relative to the frame along, and constraining such movement to, a path inclined downwardly toward the rear, said vat and said cover having cooperating means adapted to engage during the latter part of the rearward movement of the vat, whereby said cover moves rearwardly concurrently with the vat and at the same time is forced downwardly against said vat to close said access opening, and means for moving said cover, upon the initial forward movement of said vat from its position within the frame, forwardly and upwardly along said inclined path to a position in which it clears the vat, to permit continued forward movement of the vat while the cover remains within the frame, whereby there is no horizontal sliding movement between said cover and said vat.

2,668,092
MOUNTING ARRANGEMENT FOR STORAGE RECEPTACLES
Richard J. Carbary, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application August 31, 1950, Serial No. 182,489
18 Claims. (Cl. 312—270)

10. A refrigerator or the like including a liner defining a food storage compartment, a food storage receptacle within said compartment, a

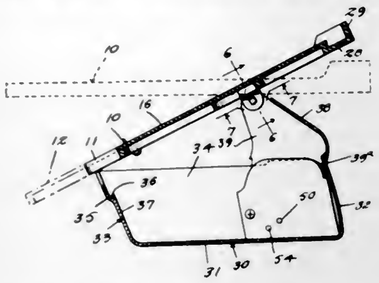
cover fixedly mounted within said compartment in spaced relationship with the top of said receptacle, means including a rack disposed at the bottom of said liner for facilitating movement of said receptacle, said rack including a T-shaped frame having a first leg extending transversely of said receptacle at the forward portion of said compartment and a second leg extending rearwardly from the mid-point of said first leg, said rack including two members mounted at the two extremities of said first leg and a third member mounted at the rear extremity of said second leg for slidability supporting said receptacle, said receptacle having three parallel grooves formed therein, each of said members being received within a corresponding one of said grooves whereby said members cooperate with said grooves to



guide said receptacle during sliding movement, said second leg of said frame being received within one of said grooves for guiding said receptacle, two elements secured to said first leg near opposite extremities thereof and extending perpendicularly to said first leg, two supporting elements mounted on the bottom of said liner, said first-named elements and said supporting elements having engaging surfaces curved in a plane extending perpendicularly to said first leg, each of said curved surfaces of said first-named elements including an elongated slot extending perpendicularly to said first leg whereby either of said elements may be moved for varying the height of its corresponding end of said first leg to adjust said receptacle relative to said cover, and means for locking said first-named elements in adjusted position.

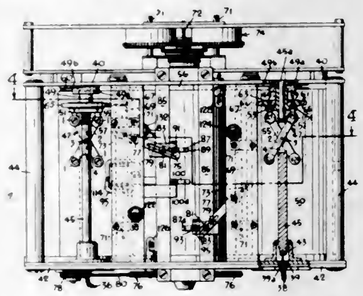
2,668,093
ELEVATOR TOP FOR DESKS
William James Bargen, Waukegan, Ill.
Application September 7, 1951, Serial No. 245,515
3 Claims. (Cl. 312—316)

1. In combination, a book box formed of a bottom wall, front and rear walls and opposite side walls, a plate hingedly secured to said front wall, right angularly disposed levers projecting from the opposite ends of said plate and adapted to swing interiorly of said side walls, a top, means pivotally securing said top to said levers, releasable latching means between said book box and said levers for latching said levers in selected upraised position, and friction means between said first means and said levers resisting rocking of said top relative to said lever whereby said top



will be held in disengaged position relative to said box in any upraised position of said levers.

2,668,094
VEHICLE OPERATION RECORDER WITH SLOW SPEED COMPENSATOR
Clarence C. Chelf, Lebanon, Ky.
Application March 8, 1951, Serial No. 214,510
5 Claims. (Cl. 346—73)



1. In a vehicle operation recorder, a frame, a shaft supported in the frame for axial rotation, a rotational-speed-responsive means secured on the shaft and having a member movable in response to variations in the speed of rotation of the shaft, a thrust-sleeve member slidable on the shaft, link means connecting the inner end of the thrust-sleeve member to the said movable member, resilient means arranged to separate said thrust-sleeve and movable members, a cam plate having an inclined surface secured to the outer end of the thrust-sleeve member for rotation therewith, cam follower means fixedly supported by the frame for operative engagement with the cam plate when not held spaced therefrom by operation of said movable member of the rotational speed-responsive device, a stylus adapted to move over a recording surface, and operative connections between the thrust-sleeve member and the stylus.

CHEMICAL

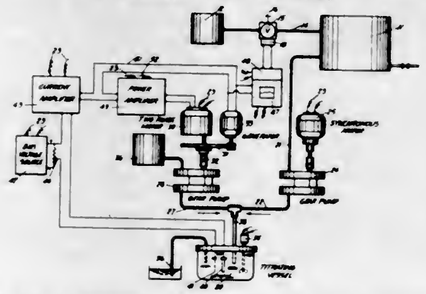
2,668,095
BLEACHING CHEMICAL PAPER PULP
Francis L. Fennell, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 22, 1950, Serial No. 186,319
9 Claims. (Cl. 8—106)

1. In a process for bleaching chemical wood pulps wherein the pulp is treated under alkaline conditions with a calcium compound yielding calcium ions and then treated with alkaline peroxide, the improvement comprising acidifying said pulp intermediate said treatments, without simultaneously bleaching said pulp to any substantial extent, with an agent from the group consisting of hydrochloric acid and chlorine to a pH not higher than 6.

2,668,096
FLAMEPROOF FIBROUS AMINOETHYLATED CELLULOSE DERIVATIVES
Wilson A. Reeves and John D. Guthrie, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application April 22, 1952, Serial No. 283,743
6 Claims. (Cl. 8—115.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)

6. A process comprising: impregnating an aminized cellulose fabric containing a plurality of primary amino groups with a water solution of at least one of the three members of the group consisting of (1) tetrakis(hydroxymethyl) phosphonium chloride, (2) water soluble partial reaction products of tetrakis(hydroxymethyl) phosphonium chloride and a polyamide of the group consisting of melamine, guanidine and urea, and (3) water soluble partial reaction products of tetrakis(hydroxymethyl) phosphonium chloride, formaldehyde, and a polyamide of the group consisting of melamine, guanidine and urea; and curing the impregnated fabric at from about 80 to about 160° C. for from about 4 to about 30 minutes, using the longer times with the lower temperatures.

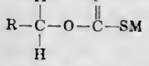
2,668,097
CONTINUOUS ELECTROMETRIC TITRATION
Kauko E. Hallikainen, Berkeley, and Domenick J. Pompeo, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application May 1, 1950, Serial No. 159,194
3 Claims. (Cl. 23—253)



2. In a system of continuous electrometric titration, a titration vessel, first pump means connected for supplying thereto a liquid to be titrated, a synchronous motor connected to drive said pump means at a constant speed, second pump means connected for supplying to said vessel a titrating liquid, a two-phase motor connected to drive said second pump means at a variable speed, electrodes in said vessel capable of producing a variable potential upon immersion in a liquid of variable composition, voltage source means in circuit with said electrodes for biasing said variable potential, amplifier means in circuit with said electrodes and said biasing voltage source for amplifying and applying said biased potential to one of the phase windings of said two-phase motor to drive said motor, a direct current generator driven by said motor, a recorder connected to the output of said generator, and feed-back means in circuit between the output of said generator and said amplifier means to regulate the speed of said motor as a linear function of the variations of the potential between said electrodes.

2,668,098
GELLING NORMALLY LIQUID HYDROCARBONS
Robert M. Alm, Highland, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application November 18, 1950, Serial No. 196,530
8 Claims. (Cl. 44—7)

1. A gelled hydrocarbon comprising a normally liquid hydrocarbon and between about 0.5 and about 10 weight percent of a metal salt of an aliphatic xanthate of the structure



wherein R is a branched alkyl group of from 12 to 24 carbon atoms and M is a metal selected from Groups I, II, III and IV of the periodic table.

2,668,099
PROCESS OF DEWATERING LIGNOCELLULOSIC MATERIALS IN THE PRODUCTION OF FUEL
Karl Nicolaus Cederquist, Falun, Sweden, assignor to Stora Kopparbergs Bergslags Aktiebolag, Falun, Sweden, a joint-stock company of Sweden
No Drawing. Application April 11, 1949, Serial No. 86,853
10 Claims. (Cl. 44—33)

1. In the treatment of lignocellulosic materials, including peat, containing substantial amounts of water to dewater them in the production of fuel therefrom involving heating said material under pressure at a temperature of at least about 150° C. and then mechanically separating water from the treated material, the improvement which comprises supplying at least a substantial portion of the heat by subjecting said material, under pressure, to the action of oxygen-containing gas to substantially completely oxidize a small portion of said material to carbon dioxide and water with the liberation of heat, and then mechanically separating water from the treated material.

2,668,100
CORROSION INHIBITOR FOR LIQUID HYDROCARBONS
George W. Luvisi, Chicago, Ill., assignor to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application November 15, 1951, Serial No. 256,603
20 Claims. (Cl. 44—63)

1. A hydrocarbon liquid containing a corrosion inhibiting amount of a salicylic acid salt of a glyoxalidine wherein the carbon atom in the 2-position is linked to a higher aliphatic hydrocarbon group containing at least 8 carbon atoms, the carbon atom in the 4-position is linked to a member from the group consisting of hydrogen and lower aliphatic groups containing not more than 6 carbon atoms, the carbon atom in the 5-position is linked to a member from the group consisting of hydrogen and lower aliphatic groups containing not more than 6 carbon atoms, there being at least one hydrogen atom on each of the carbon atoms in the 4- and 5-positions, and the nitrogen atom in the 1-position is linked to a member from the group consisting of hydrogen and lower aliphatic groups containing not more than 6 carbon atoms, there being at least one hydrogen atom attached to said nitrogen atom.

2,668,101
METHOD OF PREPARING MIXTURES OF HYDROGEN AND CARBON OXIDES
Melvin R. Arnold and Henry M. Baugh, Louisville, Ky., assignors, by mesne assignments, to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application January 21, 1949, Serial No. 72,086
11 Claims. (Cl. 48—196)

1. In the continuous process for the production of hydrogen and carbon oxides by reforming hydrocarbons of higher molecular weight than methane by passing said hydrocarbons mixed with an oxygen-containing gas over an externally heated reforming catalyst maintained at a reforming temperature within the range of 1200° to 2000° F., there being present sufficient oxygen-containing gas to convert substantially all of the hydrocarbons into hydrogen and carbon oxides, the improvement of advantageously inhibiting significant cracking of said hydrocarbons with attendant deposition of carbon on said reforming catalyst, comprising the step of: raising the temperature of the reactant gases to the reforming temperature prior to their contact with the heated reforming catalyst by passing said gases over an externally heated mass of preheated material comprising alumina and which is free of iron and nickel, said preheat material being substantially devoid of catalytic reforming activity.

2,668,102
LIQUID EXPLOSIVES
Howard J. Fisher, China Lake, Calif., Duncan P. MacDougall, Los Alamos, N. Mex., and George B. Kistiakowsky, Lincoln, Mass., assignors to the United States of America as represented by the Secretary of War
No Drawing. Application September 13, 1951, Serial No. 246,525
6 Claims. (Cl. 52—5)

1. A liquid explosive composition adapted to operation in a flexible conduit comprising 70 to 80 percent by volume of nitroglycerine, and from 19 to 30 percent by volume of dimethylphthalate.

2. A liquid explosive composition adapted to operation in a flexible conduit comprising 70 to 80 percent by volume of nitroglycerine, from 19 to 30 percent by volume of dimethylphthalate and from 0.7 to 1 percent of a stabilizer.

2,668,103
DISULFIDES AS SYNERGISTS FOR 2,4-D
Lyle D. Goodhue, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application March 31, 1950, Serial No. 153,299
10 Claims. (Cl. 71—2.6)

5. A herbicidal composition of matter comprising a compound selected from the group consisting of 2,4-dichlorophenoxyacetic acid and its salts and esters and a compound selected from the group of compounds which can be represented by the general formula

R—S—S—R'

wherein R and R' are selected from straight and branched-chain alkyl groups, each containing from eight to twelve carbon atoms, and can be different.

2,668,104
PLANT GROWTH REGULANT COMPOSITIONS COMPRISING CHLOROARYLOXYACETIC ACIDS AND ESTERS THEREOF
John D. Eastman, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application August 23, 1951, Serial No. 243,352
11 Claims. (Cl. 71—2.6)

1. A composition for controlling the growth of vegetation which comprises as active ingredients (1) a chloroaryloxyacetic acid in solution in (2) a glycol ether ester of a chloroaryloxyacetic acid, said acid being present in the amount of at least 4 percent by weight based on the weight of ester.

2,668,105
METHOD OF PRODUCING SPONGE IRON
Fredrik W. de Jahn, New York, N. Y., assignor of one-half to Alan N. Mann, Scarsdale, N. Y.
No Drawing. Application April 4, 1951, Serial No. 219,325
9 Claims. (Cl. 75—.5)

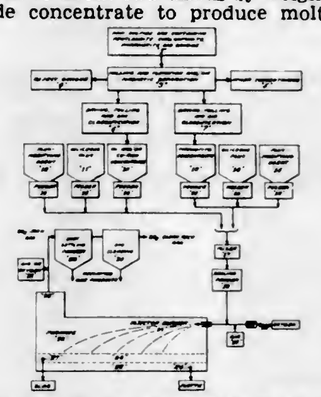
1. The method of producing sponge iron which comprises combining with pulverized iron oxide sufficient carbohydrate material resulting from the hydrolysis of woody material, to give the desired degree of reduction, forming dry lumps of the mixture and heating the mixture to between 950° C. and 1150° C.

2,668,106
CHARGING ORE AND THE LIKE AND ITS PREPARATION
Howard F. West, Joliet, and John H. Veale, Coal City, Ill., assignors to Illinois Clay Products Company, Joliet, Ill., a corporation of Illinois
No Drawing. Application July 30, 1951, Serial No. 239,382
1 Claim. (Cl. 75—3)

The method of making charging ore for open hearth furnaces and the like which comprises dry pressing brick from iron oxide in finely divided condition to a density sufficient to cause the brick to sink through the slag in an open hearth furnace, bonding the brick with about 3% iron sulphate, and then heating the brick to about 1500 degrees F. to develop a ceramic bond and to reduce the sulphur in the brick.

2,668,107
AUTOGENOUS SMELTING OF SULFIDES
James Roycroft Gordon and George Hugh Charles Norman, Copper Cliff, Ontario, Canada, Paul Etienne Queneau, Westport, Conn., and William Kelvin Sproule and Charles Edward Young, Copper Cliff, Ontario, Canada, assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
Application June 25, 1949, Serial No. 101,336
Claims priority, application Canada May 13, 1949
10 Claims. (Cl. 75—74)

10. An improved process for producing a high-grade matte, low-grade slag and gas sufficiently rich in sulfur dioxide as to be suitable for direct liquefaction by compression which comprises autogenously smelting a mixture of siliceous flux, an oxidizing gas containing more than about 65% free oxygen and high-grade metal sulfide concentrate containing more than 3% of at least one element from the group consisting of nickel and copper and the balance essentially iron and sulfur in the form of sulfide to obtain a high-grade molten matte rich in at least one metal of the group consisting of nickel and copper, a high-grade molten siliceous slag rich in at least one metal of the group consisting of nickel and copper and a gas sufficiently rich in sulfur dioxide as to be suitable for direct liquefaction by compression; autogenously smelting a mixture of low-grade sulfide concentrate consisting essentially of iron sulfide, a siliceous flux and an oxidizing gas containing more than about 65% free oxygen in an amount sufficient to oxidize about one-fourth to about two-thirds by weight of said low-grade concentrate to produce molten low-



grade matte, rich in iron sulfide, and low-grade slag; showering said molten low-grade matte as droplets upon said high-grade molten siliceous slag to pass through the same and to remove therefrom the bulk of the metal values from the group consisting of nickel and copper to produce an enriched matte and an improverished slag; withdrawing enriched matte and impoverished slag; and withdrawing from the space above said molten slag and molten matte gas sufficiently rich in sulfur dioxide as to be suitable for direct liquefaction by compression.

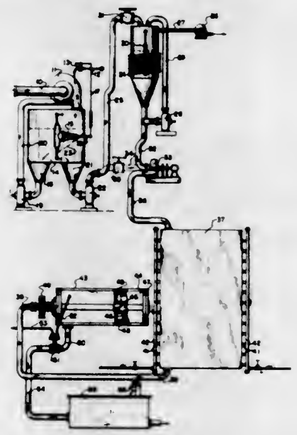
2,668,108
MACHINABLE TITANIUM BASE ALLOY CONTAINING ARSENIC
Robert I. Jaffee, Worthington, Ohio, assignor, by mesne assignments, to Kennecott Copper Corporation, New York, N. Y., a corporation of New York
No Drawing. Application April 26, 1952, Serial No. 284,640
2 Claims. (Cl. 75—177)

1. Titanium-base alloys consisting essentially from 0.05% to 0.65% arsenic, balance titanium and characterized by a machinability in excess of 100 as determined by a lathe test and as compared with a machinability of 100 for an unalloyed titanium specimen.

2,668,109
MACHINABLE TITANIUM BASE TELLURIUM ALLOY
Harry P. Croft, Greens Farms, Conn., assignor to Kennecott Copper Corporation, New York, N. Y., a corporation of New York
No Drawing. Application May 20, 1952, Serial No. 289,005
2 Claims. (Cl. 75—177)

1. A titanium-base alloy consisting essentially of from .02% to .45% tellurium, balance titanium, characterized by an improved machinability of at least 104 as determined by a lathe test as compared with 100 for an unalloyed titanium specimen.

2,668,110
METHOD FOR FIBER LIBERATION IN COTTON STALKS AND THE PULP
Arthur M. Spencer, Santa Fe, N. Mex., and Abner Jacobson, Cleveland, and Karl Sixt, East Cleveland, Ohio; said Sixt assignor to said Spencer and said Jacobson
Application June 18, 1948, Serial No. 33,696
4 Claims. (Cl. 92—6)



1. Method of liberating the fiber of cotton stalk in its natural undegraded long fiber form comprising suspending chopped cotton stalk in a fluid slurry consisting of water containing as the active digestive component 0.1 to 5.0 per cent of a wetting agent, continuously heating the fiber bundles in said aqueous solution to a temperature in the range of about 250 to 350° F. under substantially the pressure developed at said temperature for a period of about 5 to 15 minutes, and then non-abrasively beating the fiber under the same heat and pressure to gently separate the digestively softened bundles into substantially individual fibers.

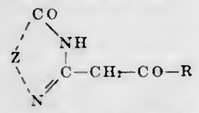
2,668,111
PAPER MAKING PROCESSES
John R. Lindquist, Chicago, Ill., assignor to Certain-Teed Products Corporation, Ardmore, Pa., a corporation of Maryland
No Drawing. Application March 5, 1952, Serial No. 275,023
8 Claims. (Cl. 92—21)

1. In a paper making process wherein an emulsion is added to the furnish and subsequently coagulated on the individual fibers comprising the furnish, the improved method comprising, coagulating the emulsion with guanidine formaldehyde.

2,668,112
MANUFACTURE OF PHOTOGRAPHIC COLOR IMAGES
Arthur Henri de Cat, Kessel-Loo, Louvain, Gerard Michiel Sevens, Berchem-Antwerp, and André Emile Van Dormael, Heverlee-Louvain, Belgium, assignors to Gevaert Photo-Producten N. V., Mortsel, Belgium, a company of Belgium
No Drawing. Application December 15, 1951, Serial No. 261,932
Claims priority, application Belgium December 20, 1950
13 Claims. (Cl. 95—6)

1. Process for the production of a photographic color image by developing a reducible silver salt

image with a primary amino aromatic developing agent in the presence of a color coupler corresponding to the following formula:



wherein Z is arylene, —CO—R is a member selected from the group consisting of an acyl-, an ester-, an amide-, a hydrazide- and a hydroxamic acid group.

2,668,113

PHOTOGRAPHIC ANTIBRONZING AGENTS

Henry J. Schwalenstocker, Rochester, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 26, 1951, Serial No. 208,058
9 Claims. (Cl. 95—7)

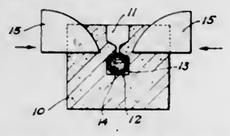
1. A photographic element comprising a support bearing a light-sensitive silver halide emulsion layer which contains a salt of a mercaptoazole with an N-hydrocarbon-substituted biguanide in an amount constituting 0.1% to 1.0% by weight of the silver in said emulsion.

2,668,114

MARGARINE COLORING (PELLET LOCATING)

Bernard T. Hensgen, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois

Application May 7, 1951, Serial No. 225,018
5 Claims. (Cl. 99—148)



1. The method of inclosing an edible substance within a mass of deformable, plastic, edible material which comprises: displacing without removing a portion of such plastic material to provide an opening extending from the exterior to the interior of the mass; depositing the substance to be inclosed therein, applying lateral pressure to said plastic material immediately above said deposited substance to seal off said substance from said opening, and thereafter gradually raising the point of application of such lateral pressure to effect a closing of said opening from the bottom towards the top.

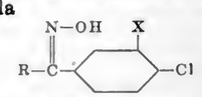
2,668,115

METHOD OF CONTROLLING STEM-END DECAY AND MOLD ON CITRUS FRUITS

Paul A. Wolf, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application August 5, 1952, Serial No. 302,829
6 Claims. (Cl. 99—154)

1. A method of treating whole citrus fruit without substantial injury thereto, to protect the fruit against attack by mold and stem-end decay organisms, which comprises wetting the fruit with a composition comprising from about 1 to 3 percent by weight of an oxime in an aqueous alkaline medium, the oxime being characterized by the formula



wherein R is a member of the group consisting of hydrogen, methyl and ethyl, and X is a member of the group consisting of hydrogen and chlorine, the aqueous composition having a pH of at least 11.

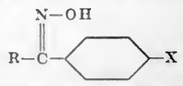
2,668,116

METHOD OF CONTROLLING STEM-END DECAY AND MOLD ON CITRUS FRUITS

Paul A. Wolf, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application August 5, 1952, Serial No. 302,830
7 Claims. (Cl. 99—154)

1. A method of treating whole citrus fruit without substantial injury thereto, to protect the fruit against attack by mold and stem-end decay organisms, which comprises wetting the fruit with a composition comprising from about 1 to 3 percent by weight of an oxime in an aqueous alkaline medium, the oxime being characterized by the formula



wherein R represents a member of the group consisting of hydrogen, methyl and ethyl and X represents a member of the group consisting of methoxy and allyloxy.

2,668,117

METHOD OF MAKING FROZEN PIZZA

Joseph Bucci, Philadelphia, Pa.

Application August 10, 1950, Serial No. 178,625
8 Claims. (Cl. 99—192)



1. The method of making a frozen pizza, comprising preparing a dough, disposing said dough in preliminary condition for cooking; providing an edible sealing agent selected from the group consisting of tomato puree, cooked tomatoes, diluted tomato paste, and tomato juice; spreading said sealing agent on a surface of said dough; pre-cooking said dough and sealing agent; quick-freezing said dough and sealing agent; disposing a wet food constituent on said sealing agent; and quick freezing said dough, sealing agent and wet constituent combination.

2,668,118

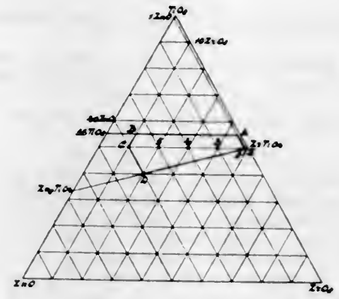
ELECTRIC INSULATOR

Gerard Heinrich Jonker, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application January 22, 1952, Serial No. 267,591
Claims priority, application Netherlands February 8, 1951
7 Claims. (Cl. 106—39)

1. A capacitor dielectric consisting of a sintered mass of about 1 to 40 mol. per cent of ZnO,

more than 10 mol. per cent of ZrO_2, and about 33⅓ mol. per cent plus ⅓ of the ZrO_2 content to 55 mol. per cent of TiO_2, said product living



wholly within a pentagon ABCDE shown in the accompanying drawing of the ternary system ZrO_2—ZnO—TiO_2.

2,668,119

THERMOPLASTIC COMPOSITION PLASTICIZED WITH MONOPROPYL DIXYLYL PHOSPHATE

William B. Horback, Irvington, Frank Berardinelli, Newark, and Walter D. Palst, Berkeley Heights, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application August 15, 1950, Serial No. 179,642
7 Claims. (Cl. 106—177)

1. A thermoplastic composition comprising an organic plastic, selected from the group consisting of vinyl chloride polymers, cellulose esters and cellulose ethers, plasticized with monopropyl dixylyl phosphate.

2,668,120

WATER-SOLUBLE FILMS

Clyde W. Leaf and Lawrence M. Liggett, Wyandotte, Mich., assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan

No Drawing. Application August 21, 1952, Serial No. 305,688
4 Claims. (Cl. 106—189)

1. A water-soluble plastic film consisting of 100 parts of a water-soluble salt of carboxymethylcellulose containing at least 0.3 glycollic acid residues per glucose unit of cellulose and 30–100 parts plasticizer, said plasticizer consisting of 35–65% glycerine and the balance sorbitol.

2,668,121

COATING FOR THE PRESERVATION OF FOODS

Marcello Rizzardi, Trieste, Italy

No Drawing. Application October 12, 1951, Serial No. 251,145
5 Claims. (Cl. 106—245)

1. A coating for the preservation of foods including pure virgin wax, vegetable oil, creosole and oil of chicory combined to form a paste.

2,668,122

COMPOSITE LEAD CHROMATE-LEAD SILICATE PIGMENT

Adrian R. Pitrot, Uniondale, N. Y., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application October 10, 1951, Serial No. 250,813
2 Claims. (Cl. 106—298)

1. A composite lead chromate lead silicate pigment consisting essentially of PbO, CrO_3, and SiO_2 in physico-chemical combination, said PbO, CrO_3 and SiO_2 being analytically present so that there are from 2 to 10 mols of PbO for each mol of CrO_3 and from 0.75 to 7.5 mols of SiO_2 for each mol of PbO.

2,668,123

METHOD OF PRODUCING ACOUSTICAL TILE

Randolph P. Copeland, Park Ridge, Ill., assignor to Certain-Teed Products Corporation, Chicago, Ill., a corporation of Maryland

Application September 25, 1948, Serial No. 51,273
4 Claims. (Cl. 117—11)



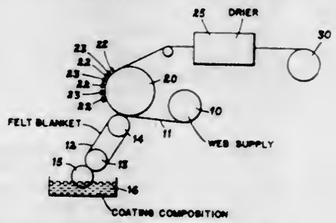
1. The method of treating lightweight sound absorptive panels formed of mineral fibers which comprises spraying a coat of paint on one face of such a panel, then providing openings at spaced intervals in the face of the panel of a diameter of from 1/16 of an inch to 1/8 of an inch and of a depth of from 1/8 to 1/8 of an inch by pressing punch means into the face of the panel and thus pushing the material of the panel ahead of the punch means so as to compress the material of the panel at the bottom face portions of the openings being formed, and then applying a second coat of paint on the face of the panel about the openings.

2,668,124

MANUFACTURE OF DECORATIVE LAMINAE

Herbert J. Mallabar, Watford, England, assignor to Oxford Corporation, Dayton, Ohio, a corporation of Ohio

Application October 31, 1951, Serial No. 254,175
6 Claims. (Cl. 117—15)



1. The process of making a paper adapted for use as a surface print sheet in the production of decorative laminae and of obtaining predetermined color characteristics therein from a supply web consisting of a highly absorbent sheet of soft, saturable paper of uniform color characteristics which comprises the steps of applying to one side only of said web an aqueous non-film-forming coating composition containing an adhesive and a coloring material adapted to penetrate and remain primarily in the surface zone of said web, smoothing and spreading said

applied coating composition while still workable uniformly over said surface of said sheet with a brushing action resulting in the production of a substantially uniformly coated surface of the desired color upon said one side of said web leaving said coated web soft and flexible and receptive to printing, and applying a decorative surface to the coated side of said web by a printing operation and retaining high receptivity of said web for subsequent impregnation and saturation by a thermo-setting resin suitable for laminating said sheet to backing sheets to form a decorative surface thereon.

2,668,125

METHOD OF INSULATING A METAL STRUCTURE AND INSULATED METAL STRUCTURE

John H. Baker, Bonanza, and Roy E. Nelson, Salt Lake City, Utah, assignors to American Gilsonite Company, Salt Lake City, Utah, a corporation of Delaware

No Drawing. Application July 6, 1951, Serial No. 235,568
20 Claims. (Cl. 117—18)

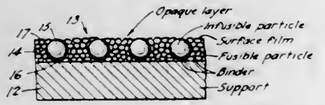
12. A method of insulating an underground pipe comprising supporting a pipe spaced from the sides and bottom of a trench, surrounding said pipe in said trench with a loose fill at least 2 inches in thickness consisting essentially of pulverized material selected from the group consisting of gilsonite, glance pitch, grahamite, elaterite and wurtzilite, and heating the outer surface of said pipe in contact with said fill to a temperature of about 200° F. to 500° F. to form said fill into an insulating body having a dense, fused first zone of said material immediately adjacent the outer surface of said pipe, a second zone of sintered particles of said material merging into said first zone and extending radially outward therefrom, and a third zone of loose particles of said material surrounding said second zone.

2,668,126

HEAT-SENSITIVE COPYING-PAPER

Nelson W. Taylor, White Bear Lake, and Bryce L. Clark, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application January 5, 1950, Serial No. 136,944
4 Claims. (Cl. 117—36)



1. A light-stable, heat-sensitive copying-paper adapted to provide clear and sharp copies of typewritten messages by methods herein described, comprising a thin flexible visibly contrasting support member having low heat conductivity and a thin opaque heat-transparentizable surface coating comprising a mixture of: (*a*) one hundred parts by weight of particles of transparent waxy material fusible at about 60–150° C.; (*b*) about 10–100 parts by weight of transparent infusible siliceous particles less than about four mils in diameter; and (*c*) sufficient transparent flexible organic film-forming binder, within the range of about one to about six parts by weight, to provide good resistance to dusting and rub-off of the coating without causing flaking thereof; the wax, siliceous particles, and binder each having substantially the same refractive index, and said binder being infusible at the fusion temperature of said wax.

2,668,127

METHOD OF MOTH PROOFING WOOLEN GOODS

Erik Birger Eriksson, Norrkoping, Sweden

No Drawing. Application August 28, 1951, Serial No. 244,106
Claims priority, application Sweden September 1, 1950
2 Claims. (Cl. 117—55)

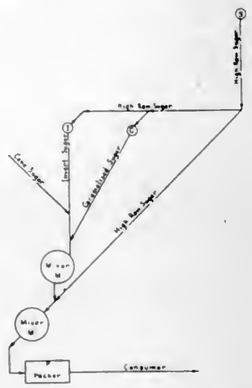
1. A method of moth proofing woolen goods containing acid residues deposited in said goods during the manufacture thereof, which comprises treating the woolen goods in a water solution containing an alkaline neutralizing agent in an amount in excess of that required to neutralize all of said acid residues in the woolen goods, rinsing the woolen goods in water to remove the neutralized acid residues, immersing the wool in a water solution containing a water-soluble silico fluoride in an amount corresponding to at least about 1% by weight of the goods, and drying the woolen goods, whereby said fluoride becomes firmly fixed to the fibers of said woolen goods and is resistant to displacement therefrom upon repeated washing.

2,668,128

PROCESS OF PRODUCING BROWN SUGAR

Benjamin A. Oxnard and Chesney H. Criswell, Denver, and Arnold J. Thomas, Johnstown, Colo., assignors to The Great Western Sugar Company, a corporation of New Jersey

Application October 19, 1949, Serial No. 122,302
4 Claims. (Cl. 127—30)



2. The process of producing brown sugar from a granulated white sugar composition which comprises subjecting 0.3 to 1.5 per cent of high raw sugar to a heating process at approximately 160 to 180° C. for from one to three hours to produce caramelized sugar, subjecting an additional 2.5 to 5 per cent of high raw sugar to a heating process to produce invert sugar, premixing said caramelized and invert sugar with a 6 to 11 per cent of cane flavored syrup for at least thirty minutes at 60 to 80° C., and introducing said premixed products into 82 to 91 per cent high raw or refined white sugar for intermixture for from one to ten minutes at a temperature of from 10 to 40° C. to produce a brown sugar product.

2,668,129

PAINTBRUSH CLEANING METHOD

Henry W. Battle, Louisville, Ky., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky., a corporation of New York

Application April 17, 1952, Serial No. 282,808
5 Claims. (Cl. 134—6)



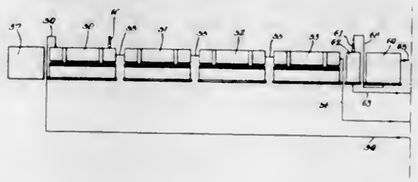
1. The process of cleaning paint applicators having filamentary paint-applying elements, after using the applicators for painting and before putting the applicators away, which comprises inserting the paint applicator in a flexible plastic envelope somewhat larger than the applicator and adapted at its upper end to close around the paint applicator handle, placing in the envelope an effective amount of paint removing liquid and, while holding the applicator handle in one hand with the upper end of the envelope closed around the applicator handle exerting pressure on the envelope repeatedly and at different places to effect a thorough pumping of the liquid into the spaces between the filamentary elements of the applicator.

2,668,130

APPARATUS AND METHOD FOR CONTINUOUS PICKLING AND REGENERATION OF CONTACT ACID

Edwin D. Martin, Chicago, Ill., assignor, by mesne assignments, to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

Application June 25, 1947, Serial No. 757,008
12 Claims. (Cl. 134—13)



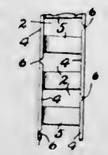
1. A continuous cyclic process for the pickling of iron and steel and for regenerating the used pickle liquor which comprises conducting the pickling operation with a pickle liquor having an acid concentration maintained within the range of from about 14% to about 22% by volume of sulfuric acid and maintaining the liquor at a temperature of from about 180° F. to about 220° F. whereby to permit rapid and uniform pickling at a relatively high ferrous sulfate concentration; continuously withdrawing used pickle liquor from the pickling step for regeneration and continuously concentrating the used liquor by evaporation; continuously adding fresh sulfuric acid to the pickle liquor being regenerated while at the same time maintaining the concentrated liquor at a temperature of from about 180° F. to about 220° F. whereby to effect rapid crystallization and precipitation of ferrous sulfate solely in the monohydrate form as a result of the combined effects of said temperature and increased acidity in lowering the solubility of ferrous sulfate monohydrate; continuously separating crystallized and precipitated ferrous sulfate monohydrate and thus obtaining a resultant concentrated liquor having a sulfuric acid concentration above said range; continuously diluting said resultant concentrated liquor with sufficient water to obtain a regenerated pickle liquor having an acid concentration within said range; maintaining the pickle liquor at all times throughout the aforementioned regeneration steps at a temperature of from about 180° F. to about 220° F. whereby to provide a regenerated pickle liquor adapted for continuous recirculation to the pickling step without reheating; and continuously recirculating the regenerated pickle liquor directly to the pickling step whereby to provide a continuous pickling and regeneration system characterized by high heat economy and low heat input requirements as a result of the maintenance of substantially the same operating temperature during both pickling and regeneration.

2,668,131

METHOD OF MAKING PISTON RINGS

Douglas W. Hamm, Muskegon, Mich., assignor to Muskegon Piston Ring Company, Muskegon, Mich., a corporation of Michigan

Application March 8, 1952, Serial No. 275,515
7 Claims. (Cl. 148—12.4)



1. The method of making a circumferentially compressible piston ring consisting in, providing a circular ring member of thin steel material of channel cross section, having upper and lower spaced parallel continuous horizontal flanges and a vertical connecting web, said web having a successive series of closely spaced generally vertical slots, with generally vertical web portions between said slots, heat treating and hardening said member to a brittle, easily fractured condition, fracturing each flange from its free edge to the adjacent ends of alternate slots, and thereafter again heat treating the ring member to reduce hardness thereof.

2,668,132

SMOKELESS POWDER GRAINS AND METHOD OF MAKING SAME

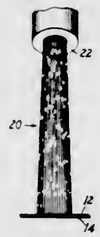
William O. Baker, Morristown, N. J.

No Drawing. Application January 11, 1950, Serial No. 138,073
3 Claims. (Cl. 154—110)

1. The process of producing a smokeless powder grain comprising the steps of extruding a plastic smokeless powder composition under high shear,

drying said extrusion, maintaining said extrusion under tension while drying, thereby imparting a substantially uniaxial orientation to the cellulosic crystallites thereof, comprising the product thus formed to from one-third to one-fifth its thickness, thereby imparting a substantially uniplanar orientation to the cellulosic crystallites of said product in addition to the uniaxial orientation, dividing said product into particles or sections, and uniting said particles or sections to form said grain with a plurality of axes of cellulosic crystallite orientation.

2,668,133
ADHESIVE BONDING PROCESSES
John J. Brophy and Robert R. Perron, Salem, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 13, 1953, Serial No. 348,167
12 Claims. (Cl. 154—126)



1. The method of adhesively bonding two parts which comprises the steps of incorporating a curable adhesive between and connecting the attaching surfaces of the parts, and activating the adhesive by subjecting it to materialistic radiation to cause the adhesive to cure.

2,668,134
PROCESS FOR TREATING POLYETHYLENE AND COATED PRODUCT
Paul V. Horton, Chevy Chase, Md., assignor to Plax Corporation, Hartford, Conn., a corporation of Delaware
No Drawing. Application August 31, 1948, Serial No. 47,147
7 Claims. (Cl. 154—139)

6. The process of bonding a polyethylene surface to another surface which comprises exposing the polyethylene surface to a bath of sulphuric acid and sodium dichromate, washing, and bonding the surfaces together with a polar cement.

2,668,135
GERM-COUNTERACTING COMPOSITIONS
John A. Vaichulis, Manteno, and Andrew C. Ivy, Chicago, Ill.
No Drawing. Application May 21, 1949, Serial No. 94,724
14 Claims. (Cl. 167—51.5)

1. A germ-counteracting composition comprising an aqueous solution containing penicillin, at least one member selected from the group consisting of carinamide and sodium benzoate; a bactericidal sulfonamide, ethyl alcohol, and a non-toxic acid, said solution having a pH between about 6.5 and about 7.

2,668,136
TETRADECYLAMINE SALT OF O-PHENYLPHENOL
Joseph Winkler, New York, N. Y., assignor to By-Products Processing Laboratories, Inc., a corporation of New York
No Drawing. Application August 2, 1951, Serial No. 240,063
2 Claims. (Cl. 167—58)

2. A substance for treating materials to impart antimicrobial properties thereto, a mixture of a liquid vehicle and tetradecylamine-ortho-phenylphenate.

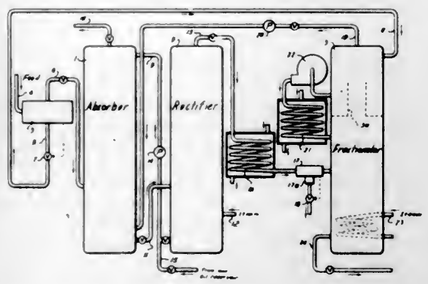
2,668,137
VITAMIN B_{12} ELUTION FROM CHARCOAL
Stanford W. Briggs, Westfield, Robert G. Denkewalter, Plainfield, and George B. Hughey, Metuchen, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application December 13, 1949, Serial No. 132,804
9 Claims. (Cl. 167—81)

1. The process that comprises eluting charcoal, having adsorbed thereon vitamin B_{12} active substances associated with impurities, with a two-phase system of water and an organic polar solvent incompletely miscible with water, and separating the two phases of the resulting elute to recover an aqueous solution containing said vitamin B_{12} active substances essentially free of said impurities.

2,668,138
FOAM DEPRESSANT
John J. Walker and John E. Farbak, Chicago, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application May 10, 1950, Serial No. 161,249
5 Claims. (Cl. 195—107)

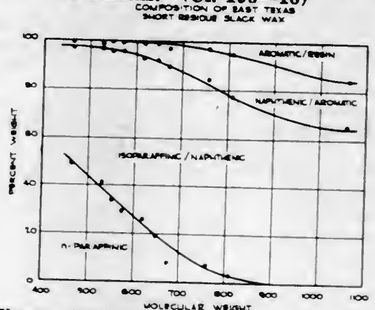
1. A process for the suppression of foam in a fermentation process which comprises incorporating into the material undergoing fermentation a small but sufficient quantity of the complex compounds obtained as the residue from the high-temperature, counter-current extraction of fatty materials with liquefied propane.

2,668,139
SEPARATION OF HYDROCARBONS
John B. Baird and Nelson C. Turner, Houston, Tex., assignors to Hudson Engineering Corporation, Houston, Tex., a corporation of Texas
Application October 27, 1949, Serial No. 123,882
3 Claims. (Cl. 196—8)



1. A process for fractionating a natural gas feed containing methane and hydrocarbons heavier than methane to recover said heavier hydrocarbons substantially free, within acceptable limits, from said methane which comprises the steps of condensing a portion of said feed to obtain a condensate comprising a portion of said heavier hydrocarbons admixed with methane in an undesirably high concentration, contacting the remainder of said feed with absorption oil in an absorption zone to produce an absorption oil enriched with heavier hydrocarbons and methane from said remainder of said feed, passing said enriched oil to a rectifier and stripping it therein to produce a rectifier bottoms product comprising lean absorption oil and a rectifier overhead product comprising methane and at least a portion of said heavier hydrocarbons contained in said enriched oil, said methane being present in an undesirably high concentration in said rectifier overhead product, returning said lean absorption oil to said absorption zone, feeding said rectifier overhead product to a fractional distillation column, adding heat to said column at a point below the introduction of said rectifier overhead product thereinto, refluxing said column solely with said condensate introduced thereinto at a point above which said rectifier overhead product is introduced thereinto, removing as an overhead product from said column a mixture composed predominantly of methane from said condensate and methane from said rectifier overhead product, and recovering as a bottom product from said column a mixture of said heavier hydrocarbons from said condensate and from said rectifier overhead product free, within acceptable limits, from said undesirable methane, said column having sufficient of said heat added thereto to strip said bottom product of the undesirable methane.

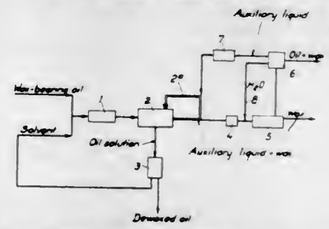
2,668,140
PREPARATION OF PARAFFIN WAXES
Karekin G. Arabian, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application May 24, 1950, Serial No. 163,937
9 Claims. (Cl. 196—18)



1. The method of producing a hard, high melting, hydrocarbon wax product and a plastic, high melting, paraffin wax product from a deasphaltized and selective solvent extracted paraffinic-naphthenic short residue crude wax which comprises dissolving the crude wax in a dewaxing solvent at an elevated temperature, cooling the solution and separating the resulting solid wax from the remaining solution at a temperature of about 40° to 60° F., thereby recovering a high melting, microcrystalline hydrocarbon wax, dissolving the microcrystalline wax in a dewaxing solvent at an elevated temperature, cooling the solution and separating the resulting solid wax from the remaining solution at a temperature at least as high as 100° F., thereby recovering a high melting, hard, hydrocarbon wax product, and recovering the remaining wax components from the solvent of the separated solution, as a relatively high melting, plastic hydrocarbon wax.

8. A high melting, plastic, hydrocarbon wax product having a melting point of about 140° to about 145° F. and comprising predominantly a mixture of isoparaffinic and naphthenic hydrocarbons having melting points substantially coextensive with the range of from about 117° F. to about 160° F. and containing only a minor proportion, not over about 5% of normal paraffins.

2,668,141
PROCESS OF DEWAXING PETROLEUM OILS AND THE LIKE
Fredrik Teodor Emanuel Palmqvist, Stockholm, Sweden, assignor to Aktiebolaget Separator-Nobel, Stockholm, Sweden, a corporation of Sweden
Application November 19, 1948, Serial No. 61,032
16 Claims. (Cl. 196—19)



1. In the dewaxing of mineral oils, shale oils, tar oils, and their fractions and residues, by centrifuging the oil in the presence of an added oil-dissolving and wax-precipitating solvent, said solvent forming with the oil an oil solution containing precipitated wax crystals, the process which comprises forming in the centrifuging locus, and adjacent the oil solution, a layer of an auxiliary liquid having a specific gravity intermediate the specific gravities of the oil solution and the wax, said auxiliary liquid being substantially insoluble in the oil solution and having a surface tension, relative to the oil solution, which is sufficiently low to allow the wax to pass into said layer in the form of separate crystals while preventing penetration of oil into said layer, and, during the centrifuging operation, passing wax crystals separately through the boundary surface between said oil solution and layer while displacing oil from the wax at said layer, thereby deoiling the wax in said locus.

2,668,142
REFORMING PROCESS AND CATALYSTS
Harold A. Strecker, Bedford, and Harrison M. Stine, Lyndhurst, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application February 6, 1952, Serial No. 270,274
15 Claims. (Cl. 196—50)

1. A process for reforming petroleum fractions which comprises contacting said fractions under reforming conditions with a reforming catalyst containing between 10 and 30 mol per cent chromia, between 50 and 90 mol per cent alumina and between 1 and 30 mol per cent antimony oxide and a minor amount between 0.1 and 5.0 mol per cent of a metal oxide of a metal from the group consisting of gallium, cadmium, thorium, zirconium and iridium.

2,668,143

GLASS ELECTRODE

Paul T. Gilbert, Jr., Alhambra, and Edwin P. Arthur, Altadena, Calif., assignors to Beckman Instruments, Inc., a corporation of California

No Drawing. Application January 19, 1950, Serial No. 139,545

7 Claims. (Cl. 204—195)

1. A glass electrode having a pH-sensitive lithia-silica glass membrane of an oxide-glass composition consisting essentially of: Li in an amount about 50–120 atoms/100 atoms of Si; total alkaline earth metals in an amount about 0–20 atoms/100 atoms of Si; and both La and Ce in a total amount from a few to about 30 atoms/100 atoms of Si, the atomic ratio of the amounts of La and Ce in either order being a maximum of about 10.

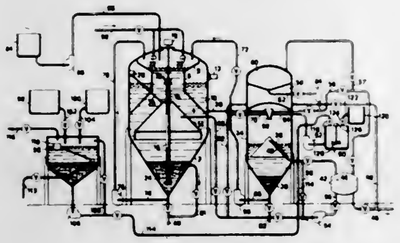
2,668,144

TREATMENT OF WATER FOR THE REMOVAL OF SILICA

Charles E. Joos, Wyncote, Pa., assignor to Cochrane Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application November 3, 1949, Serial No. 125,307

5 Claims. (Cl. 210—16)



1. A process for treating water for the removal of silica comprising passing the raw water to be treated into a first vessel, supplying the reaction products of lime and soda to said vessel to treat the water contained therein, separating the treated water from the resulting precipitate in said vessel, delivering the separated water to a second vessel, supplying an externally prepared and washed precipitate of magnesium hydroxide to said second vessel to treat the water contained therein, separating the treated water from the resulting precipitate in said second vessel, returning the precipitate from said second vessel to said first vessel, and discharging the last mentioned separated water from the process.

2,668,145

LUBRICATING COMPOSITIONS

Geza S. Ronay, Oakland, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application August 4, 1951, Serial No. 240,457

19 Claims. (Cl. 252—32.5)

1. A lubricating oil base having incorporated therein from 0.01 to 0.5% by weight, which amount is insufficient to modify the viscosity of the lubricating oil base, of clay modified by an organic cationic material selected from amines and quaternary ammonium compounds so as to render said clay oleophilic.

2,668,146

METAL-WORKING COMPOSITIONS

Thomas H. Cafcas, Chicago, and Albert W. Lindert, Homewood, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application July 23, 1949, Serial No. 106,488

3 Claims. (Cl. 252—33.4)

1. An improved emulsifiable soluble oil composition comprising from about 45% to about 95% of a hydrocarbon oil, from about 5% to about 40% of an emulsifying agent selected from the class consisting of an alkali metal, ammonia and amino soap of a preferentially oil-soluble sulfonic acid, and a sodium, potassium, ammonia and amino soap of a naphthenic acid, and from about 0.01% to about 5% of a tannic acid.

2,668,147

PROCESS FOR PRODUCING A MATERIAL CONTAINING SODIUM POLYPHOSPHATES

Bruno Blaser, Dusseldorf-Holthausen, and Friedrich Weldes, Dusseldorf-Benrath, Germany, assignors to Henkel & Cie G. m. b. H., Dusseldorf-Holthausen, Germany

No Drawing. Application October 27, 1951, Serial No. 253,552

8 Claims. (Cl. 252—135)

3. A process for producing a material containing sodium polyphosphates which comprises making a solution containing a mixture of monosodium phosphate, disodium phosphate and sodium sulfate in an amount sufficient to give a content of 10–30% by weight of sodium sulfate in the final product, concentrating said solution, flash-drying the concentrate at a temperature above 100° C. until a dry powder is obtained, and heating said powder at a temperature ranging from 270° C. to 850° C., whereby conversion of the phosphates into polyphosphates occurs.

2,668,148

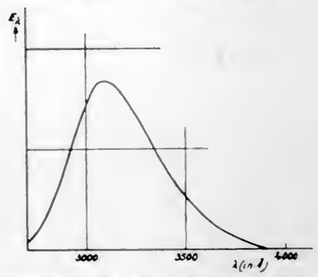
THALLIUM ACTIVATED CALCIUM PHOSPHATE PHOSPHOR CONTAINING ALUMINUM

Ferdinand Anne Kröger and Jan van den Boomgaard, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application November 7, 1951, Serial No. 255,288

Claims priority, application Netherlands December 19, 1950

4 Claims. (Cl. 252—301.4)



1. Luminescent material consisting of calcium-orthophosphate which is activated by thallium, said material having a crystal lattice comprising aluminium, the ratio between the sum of the elements calcium, aluminium and thallium and the supply of phosphorus being between 3:2 and 2.4:2, the ratio between aluminium and thallium being between 0.5:1 and 2:1.

2,668,149

STABILIZATION OF SILICA SOLS WITH LITHIUM HYDROXIDE AND PRODUCT

Ralph K. Iler, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application December 3, 1951, Serial No. 259,688

8 Claims. (Cl. 252—313)

2. A silica sol of silica particles having an average diameter of 1 to 150 millimicrons, the mol ratio of SiO_2:Li_2O in the sol being from 4:1 to 25:1.

2,668,150

ANTIFOAM COMPOSITIONS AND METHOD OF FOAM INHIBITION

George W. Luvisi, Chicago, Ill., assignor to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware

No Drawing. Application March 26, 1951, Serial No. 217,683

16 Claims. (Cl. 252—321)

1. A defoaming composition consisting essentially of 5 to 15% by weight of a fatty acid containing 12 to 30 carbon atoms, 1% to 5% by weight of paraffin wax, about 5% to 20% by weight of polyoxyethylene glycol 400 dilaurate and about 1% to 25% by weight of a compound from the group consisting of polyoxypropylene diols having a molecular weight of at least 400 and the monoethers and diethers thereof in which the terminal ether group contains not more than 7 carbon atoms, all dissolved in a water immiscible hydrophobic liquid solvent, the components of said composition being employed in proportions sufficient to form a clear solution in said solvent and the product being self-emulsifiable in water.

2,668,151

HYDROPHOBIC INORGANIC PARTICULATE MATERIALS

George Wesley Pedlow, Jr., Easton, Pa., and Carl Shelley Miner, Jr., Winnetka, Ill., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application June 12, 1948, Serial No. 32,726

2 Claims. (Cl. 252—428)

1. Hydrophobic siliceous powder material comprising a normally hydrophilic siliceous powder rendered hydrophobic by treatment with a tertiary carbinoxy chlorosilane, the chlorine being hydrolyzed out of the molecule of said tertiary-carbinoxy chlorosilane during said treatment, leaving a hydrophobic treatment including tertiary-carbinoxy groups and silicon on said powder.

2,668,152

METHOD OF PRODUCING CELLULAR MATERIALS AND COMPOSITIONS THEREFOR

Grady M. O'Neal, Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Continuation of application Serial No. 71,552, January 18, 1949. This application March 27, 1951, Serial No. 217,887

15 Claims. (Cl. 260—2.5)

1. A method of producing cellular products which comprises incorporating into a millable polymer which is plastic at temperatures within the range of 266 degrees F. to 350 degrees F. a heat decomposable, gas producing composition containing biuret in sufficient quantities to act as a blowing agent to form cellular products substantially free from collapsing of the cells therein, and heating the resultant material to temperatures at which the biuret decomposes to produce ammonia and expand said material, and setting the resultant expanded cellular material.

2,668,153

METHOD OF MAKING A SPONGE MATERIAL AND THE PRODUCT RESULTING THEREFROM

Henry George Hammon, Stevensville, Mich., assignor, by mesne assignments, to Christopher L. Wilson, Columbus, Ohio

No Drawing. Application April 28, 1951, Serial No. 223,650

3 Claims. (Cl. 260—2.5)

1. A sponge material comprising the reaction product of polyvinyl alcohol and formaldehyde in which the major portion of the material has from about 35 to 80% of the hydroxyl groups of the polyvinyl alcohol reacted, and containing localized relatively hard sections of small extent in which a higher percentage of hydroxyl groups are reacted than are reacted in the remainder of the sponge material, said hard sections being formed by reacting the polyvinyl alcohol with granular paraformaldehyde substantially all the particles of which have a maximum size of about 20 mesh and in which substantially no particles are above 8 mesh in size.

2,668,154

PROTEIN ADHESIVES FROM ANIMAL GLUE, A HYDRAZIDE AND FORMALDEHYDE

George Otto Orth, Jr., Seattle, Wash., assignor to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application May 26, 1950, Serial No. 164,595

7 Claims. (Cl. 260—6)

7. A modified glue composition which consists essentially of the product obtained by heating an aqueous mixture of a major proportion of animal glue and of minor proportions of formaldehyde and of a hydrazide capable of forming a water-soluble product with formaldehyde, said hydrazide being selected from the group consisting of organic carboxylic acid hydrazides and thiocarbohydrazide, and said mixture having been heated for a period of time sufficient to convert the mixture to a gel.

2,668,155

UREA-FORMALDEHYDE PRIMARY ALKYLENE DIAMINE CONDENSATION PRODUCTS

William Robert McClellan, Kennett Square, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 7, 1950, Serial No. 154,727

14 Claims. (Cl. 260—17.3)

1. A condensation product obtained by heating in aqueous medium at less than about 85° C. until a clear solution having a pH between 5.0 and 6.5 is formed, urea, and per mole of urea, 1.5 to 2.5 moles of formaldehyde, and 0.03 to 0.12 mole of a primary alkylene diamine containing from 4 to 10 carbon atoms, inclusive, and in which the primary amino groups are separated by at least 4 carbon atoms, and an acid catalytically active for the condensation of urea with formaldehyde in an amount stoichiometrically equivalent to 2.5% to 12.5% of said diamine, the pro-

portion and character of said acid being such that the pH of said aqueous medium is lowered to at least 6.5 upon heating.

2,668,156

UNSATURATED STARCH COMPOUNDS AND INSOLUBLE DERIVATIVES THEREOF

Carlyle G. Caldwell, Flushing, and Otto B. Wurzburg, Babylon, N. Y., assignors to National Starch Products Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application April 6, 1950, Serial No. 154,417

3 Claims. (Cl. 260—17.4)

1. The method of reducing the water dispersibility of a starch which consists in treating a water dispersible starch in an aqueous alkaline medium with a compound containing the group:

where R is a member of the group consisting of hydrogen and alkyl group, said compound selected from the class consisting of organic carboxylic anhydrides, organic halides and epoxy compounds, and thereby introducing into the starch molecule an unsaturated, polymerizable olefinic radical, and in limiting the degree of substitution in the treatment whereby the unsaturated olefinic radical is introduced in the proportion of not substantially more than one unsaturated olefinic radical to fifteen anhydroglucose units, resulting in a water dispersible starch derivative, and then treating the latter with a vinyl polymerization type catalyst and reducing the water dispersibility of the same

---

2,668,157

ABRASION RESISTANT WIRE ENAMELS

Fred J. Emig and Michael J. Muth, Chicago, Ill., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 15, 1951, Serial No. 215,874

10 Claims. (Cl. 260—23)

1. An electrical insulating liquid organic coating composition consisting essentially of an organic film-forming material of the group which consists of (1) a combination of heat-hardenable phenol-formaldehyde resin and polyvinyl formal resin, (2) a linear polyamide and (3) an oleoresinous varnish, and colloidal polytetrafluoroethylene dispersed uniformly throughout said coating composition, in a concentration between about 0.1% and about 1% by weight based on said film-forming material, to increase the scrape abrasion resistance.

2,668,158

COATING COMPOSITIONS FOR METALS CONTAINING A PHENOL FORMALDEHYDE RESIN AND A PHOSPHATE

Robert H. Sturm, Enfield, England, assignor to Cosmocord Plastics Limited, Enfield, England, a British company

No Drawing. Application November 6, 1950, Serial No. 194,383

Claims priority, application Great Britain November 7, 1949

19 Claims. (Cl. 260—25)

1. A liquid coating composition for application to surfaces of steel, other ferrous metals, zinc, aluminium or alloys thereof, comprising a homogeneous mixture of a thermosetting phenol-formaldehyde resin with a modifying agent selected from the group consisting of natural resins, abietic acid and methyl abietate, together with an acidified metal phosphate and phosphoric acid, said metal phosphate being adapted to react with a metal surface to which the composition is applied to form an insoluble phosphate layer thereon and also to act with said phosphoric acid as a thermo-setting catalyst during stoving.

2,668,159

TEXTILE PRINTING WATER-IN-OIL EMULSIONS HAVING AS THE OIL PHASE A THERMOPLASTIC RESIN PLASTISOL EMULSIFIED IN A THERMOSETTING RESIN LACQUER

Edward F. Armatys, New York, N. Y., assignor to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware

No Drawing. Application January 4, 1951, Serial No. 204,492

7 Claims. (Cl. 260—29.4)

1. A coloring composition for textile materials comprising pigment dispersed in an emulsion containing a discontinuous phase consisting essentially of water, and a continuous oil phase comprising a dispersion in a non-volatile liquid plasticizer of a thermoplastic resinous material selected from the group consisting of a homopolymer of vinyl chloride and a copolymer of vinyl chloride and vinyl acetate, said dispersion being suspended in a lacquer comprising a thermosetting resinous binder selected from the group consisting of alcoholated melamine-formaldehyde resinous condensates and alkyd-modified melamine-formaldehyde resinous condensates in organic solvents which solvents are substantially non-solvents for said dispersed thermoplastic resinous materials, the ratio of plasticizer to said thermoplastic resinous material being within the range of from approximately one to approximately two parts by weight of plasticizer to one part by weight of said resinous material.

2,668,160

STABILIZATION OF SULFONE RESINS

Charles Roney, Hammond, Ind., assignor to Ansul Chemical Company, Marinette, Wis., a corporation of Wisconsin

No Drawing. Original application February 23, 1951, Serial No. 212,519, now Patent No. 2,606,169, dated August 5, 1952. Divided and this application June 27, 1952, Serial No. 296,073

8 Claims. (Cl. 260—45.85)

1. An olefin-sulfur dioxide resin having incorporated therewith a monocarboxylic acid ester of a polyhydric alcohol, said ester consisting of carbon, hydrogen and oxygen, to render the resin substantially stable at a temperature above 100° C. and substantially clear and transparent under molding pressure.

2,668,161

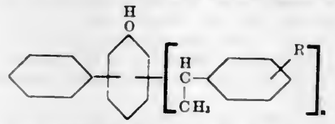
PRESERVATION OF BUTADIENE COPOLYMERS

David J. Beaver, Richmond Heights, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application November 14, 1951, Serial No. 256,359

8 Claims. (Cl. 260—45.95)

1. The process of stabilizing a rubber-like copolymer of a conjugated diene monomer and a vinyl aromatic monomer which comprises adding to the latex resulting from the emulsion copolymerization thereof a small amount of a phenethyl hydroxy biphenyl of the structure



where R represents a member of the group consisting of hydrogen, chlorine and alkyl radicals and n is an integer less than three.

2,668,162

PREPARATION OF HIGH MOLECULAR WEIGHT POLYHYDROXYACETIC ESTER

Charles E. Lowe, Buffalo, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 20, 1952, Serial No. 277,726

7 Claims. (Cl. 260—78.3)

1. A process for preparing polyhydroxyacetic esters which comprises polymerizing glycolide by heating glycolide, free of water and acid impurities, at a temperature of from about 150° C. to about 245° C. in the presence of a catalytic amount of an antimony compound from the group consisting of antimony trioxide and antimony trihalides.

2,668,163

ALKENYL HYDROPEROXYMETHANES AS POLYMERIZATION CATALYSTS

William B. Reynolds, John E. Wicklatz, and Thomas J. Kennedy, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application August 15, 1949, Serial No. 110,482

14 Claims. (Cl. 260—84.1)

1. In a process for producing a solid polymeric product by polymerizing a conjugated diolefin in aqueous emulsion in the presence of an organic hydroperoxide as an oxidizing constituent of a polymerization catalyst composition which also comprises a reductant, the improvement which comprises effecting said polymerization at a reaction temperature below 10° C. using as said organic hydroperoxide a hydroperoxide resulting from oxidation with free oxygen of 5-(4-isopropylphenyl)-2-pentene.

2,668,164

RESINOUS COPOLYMERS OF 3,4 AND 3,5 DICHLORO-ALPHA-METHYLSTYRENE

Gilbert H. Swart, Akron, and Theodore A. Te Grotenhuis, Olmsted Falls, Ohio, assignors to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application October 25, 1950, Serial No. 192,146

6 Claims. (Cl. 260—87.5)

1. A solid interpolymerization product of at least two different substituted alpha methyl styrene liquids consisting essentially of (1) at least one alpha-methystyrene which has at least one nuclear substituent selected from the group consisting of halogen, trifluoromethyl, methyl and hydrogen on the 3,4 or 5 positions and (2) at least one member of the group consisting of the 3,4 and 3,5 dihalo-alpha-methylstyrenes, all of the alpha-methylstyrenes being characterized by absence of substituents on the 2 and 6 positions on the nucleus.

2,668,165

CONDENSATION PRODUCTS OF HIGHER FATTY ACIDS, POLYALKYLENE POLYAMINES, AND ORGANIC HALIDES

Joseph Emmett Carpenter, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application December 22, 1951, Serial No. 263,006

18 Claims. (Cl. 260—97.5)

1. A composition of matter comprising the condensation product from the simultaneous reaction at a temperature of about 120° C. to about 300° C. of a higher fatty acid material, a polyalkylene polyamine and an organic halide containing the radical —CH_2X, X being halogen, the ratio of higher fatty acid radicals to nitrogen in said product being between about 1:1.5 to 1:2.5, by equivalents, and the proportion of organic halide in said product being from about 0.02 to about 0.50 the number of equivalents of the fatty acid material.

5. A composition of matter as in claim 1 wherein the higher fatty acid material is tall oil.

2,668,166

DIAZONIUM COMPOUNDS

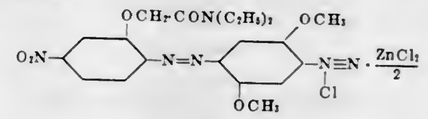
Wilhelm Seidenfaden and Hans Albert, Offenbach am Main, Germany

No Drawing. Application September 4, 1951, Serial No. 245,078

Claims priority, application Germany September 5, 1950

5 Claims. (Cl. 260—141)

3. A diazonium compound of the following formula:



2,668,167

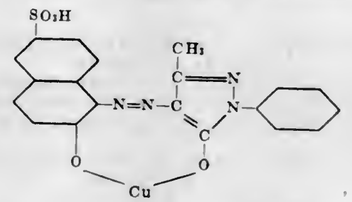
PREPARATION OF COMPLEX CHROMIUM AZO COMPOUNDS

Robert P. Monnier, Cincinnati, Ohio, assignor to Cincinnati Chemical Works Incorporated, Cincinnati, Ohio, a corporation

No Drawing. Application November 28, 1951, Serial No. 258,756

8 Claims. (Cl. 260—147)

7. A method for the preparation of a complex chromium azo compound, which comprises the step of replacing Cu by Cr in the complex copper azo compound corresponding to the formula



by heating the said complex copper azo compound with chromic oxide in an acid reaction medium.

2,668,168

CELLULOSE TRISALKYLCARBAMATES AND PROCESS OF MAKING THE SAME

Josef Pikl, Glassboro, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 1, 1951, Serial No. 229,547
9 Claims. (Cl. 260—224)

3. Cellulose trisoctadecylcarbamate.

4. A process for producing cellulose trisalkyl carbamates, which comprises reacting 1 mol of cellulose (on basis of $C_6H_{10}O_5$) with from 6 to 9 mols of an alkyl isocyanate having from 2 to 18 C-atoms in the alkyl radical, the reaction being effected by heating the reactants together in a sufficient quantity of dimethyl formamide to form a stirrable reaction mass, at a temperature not less than 80° C., and not exceeding 160° C.

2,668,169

METHOD OF MAKING NONSWELLING STARCH GRANULES WITH DIISOCYANATES

Ivan A. Wolff and Paul R. Watson, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application March 30, 1951, Serial No. 218,515
8 Claims. (Cl. 260—233.3)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. The method of rendering starch granules resistant to swelling which comprises suspending the granules in an aqueous medium containing 0.1 to 1.0 percent of an organic diisocyanate based on the weight of the starch, maintaining the system for a period of at least 5 minutes, removing the starch granules from the aqueous medium and drying them.

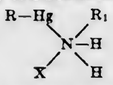
2,668,170

HETEROCYCLIC MERCURY AMINE COMPOUNDS

Frank J. Sowa, Cranford, N. J.

No Drawing. Application September 18, 1950, Serial No. 185,508
8 Claims. (Cl. 260—270)

1. A fungicidal compound having the composition represented by the formula



wherein R is a heterocyclic radical selected from the group consisting of pyridyl, thienyl, and furyl radicals, X is an anion, and R_1 is a hydrocarbon radical selected from the group consisting of alkyl radicals containing 6 to 18 carbon atoms, and cyclohexyl and benzyl radicals.

2,668,171

PROCESS FOR MANUFACTURING COPPER PHTHALOCYANINE

John Denny Compton, New Castle County, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 15, 1952, Serial No. 266,603
4 Claims. (Cl. 260—314.5)

1. A process of recovering copper phthalocyanine from a reaction mass in which the same has been produced from phthalic anhydride, urea and cupric chloride in the presence of trichlorobenzene, which comprises extracting the fluid reaction mass with aqueous alkali-metal hydroxide, removing the aqueous phase, extracting the residual organic phase with water, at least once, again removing the aqueous phase, and eventually steam distilling the residual organic phase until all the trichlorobenzene has been distilled over.

2,668,172

CASTOR OIL SOLUBLE COLORING COMPOSITION FOR COATING COPYING PAPER

Luther C. Chien, Pitman, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 16, 1952, Serial No. 299,239
4 Claims. (Cl. 260—388)

1. As a new composition of matter, a castor-oil soluble grade of Victoria Pure Blue BO in intimate admixture with the sodium salt of dibutylated disulfonated ortho hydroxy diphenyl.

2,668,173

TREATMENT OF ACIDIC MIXTURES AND PRODUCTS RESULTING THEREFROM

Carl N. Zellner, New Providence, and Fred Lister, Elizabeth, N. J., assignors to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware

No Drawing. Application March 11, 1950, Serial No. 149,218
15 Claims. (Cl. 260—452)

1. A method for obtaining substantially increased yields of polybasic acidic substances from a hydrocarbon mixture oxidized to the extent of containing polybasic acids in admixture with acidic substances of the monobasic type, said mixture being characterized by having a saponification value of at least 400 and a substantial difference between acid and saponification value, which comprises separating from said mixture an acidic fraction comprised predominantly of a low boiling portion of material distillable from said mixture, and heating said acidic fraction at an elevated temperature but below a temperature sufficient to substantially decompose said acidic fraction for an extended period of time sufficient to convert a substantial amount of said acidic fraction to acidic substances having an increased average number of saponifiable groups per molecule, a higher boiling point and a higher molecular weight than said acidic fraction, said acidic fraction being characterized by having (*a*) a saponification value of at least 400, (*b*) a substantial difference between acid and saponification value, and (*c*) an acid value that accounts for a substantial part of the saponification value.

2,668,174

MONOPROPYL DIXYLYL PHOSPHATE AND PROCESS

William B. Horback, Irvington, Frank Berardinelli, South Orange, and Walter D. Paist, Berkeley Heights, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Original application August 15, 1950, Serial No. 179,642. Divided and this application January 16, 1952, Serial No. 266,794
5 Claims. (Cl. 260—461)

1. Monopropyl dixylyl phosphate.

2,668,175

PRODUCTION OF ACRYLONITRILE

Walter Reppe, Ludwigshafen (Rhine), Nikolaus v. Kutepow, Karlsruhe-Rueppurr, and Otto Leichtle, Ludwigshafen (Rhine), Germany, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany

No Drawing. Application December 29, 1951, Serial No. 264,272
Claims priority, application Germany January 9, 1951
8 Claims. (Cl. 260—465.2)

6. A process for the production of acrylonitrile which comprises leading acrylic acid and ammonia in the gas phase at a temperature above 200° C. over a water-removing catalyst containing a compound selected from the class consisting of phosphoric acid and a phosphate, the acrylic acid and the ammonia being separately preheated at a temperature above 200° C. before bringing them together in contact with the catalyst.

2,668,176

DINITROBUTYRATES

Karl Klager, Monrovia, Calif.

No Drawing. Original application December 21, 1951, Serial No. 262,880, now Patent No. 2,640,072, dated May 26, 1953. Divided and this application January 9, 1953, Serial No. 330,597
6 Claims. (Cl. 260—478)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. Sodium methyl-4,4-dinitrobutyrate.

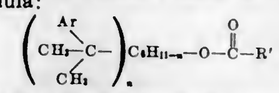
2,668,177

ESTERS OF ARALKYLATED CYCLOHEXANOLS

Gerald M. Corbett, Glenn C. Wiggins, and William S. Thurber, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application September 23, 1950, Serial No. 186,492
5 Claims. (Cl. 260—488)

1. An aralkyl-cyclohexyl ester having the general formula:



wherein Ar is a monovalent monocyclic hydrocarbon radical of the benzene series, R′ is an alkyl radical containing not more than 17 carbon atoms and *n* is an integer of from 1 to 3 in each



group is substituted in one of the 2-, 4-, and 6-positions of the cyclohexyl radical.

2,668,178

HOMOSULFANILAMIDE SALTS OF BENZALTHIOSEMICARBAZONES

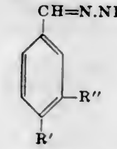
Robert Behnisch and Fritz Mietzsch, Wuppertal-Elberfeld, and Hans Schmidt, Wuppertal-Vohwinkel, Germany, assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application January 14, 1952, Serial No. 266,444
4 Claims. (Cl. 260—501)

1. Alkaline - reacting aminoalkyl - benzenesulfonamide salts of acid-reacting substituted benzalthiosemicarbazones wherein the aminoalkylbenzenesulfonamide moiety is represented by the formula:



wherein R is a member of the group consisting of hydrogen and methyl and the acid-reacting substituted benzalthiosemicarbazone moiety is represented by the formula:



wherein one member of the group consisting of R′ and R″ is hydrogen and the other is a member of the group consisting of:

—CO.OH, —CH_2CO.OH and —CH=CH.CO.OH

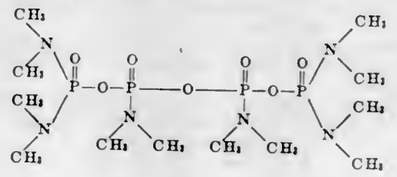
2,668,179

LINEAR DODECAMETHYLTETRAPHOSPHORAMIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application November 10, 1952, Serial No. 319,787
1 Claim. (Cl. 260—545)

Linear dodecamethyltetraphosphoramide of the formula



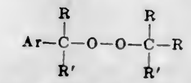
2,668,180

PREPARATION OF ARYLDIALKYL PEROXIDES

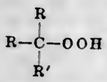
Harold Boardman, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 1, 1950, Serial No. 171,745
11 Claims. (Cl. 260—610)

1. The method of preparing a peroxide of the formula

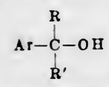


wherein Ar is an aryl radical, R is an aliphatic radical, and R′ is a radical of the group consisting of aliphatic and aryl radicals differing from Ar, which comprises reacting a hydroperoxide of the formula



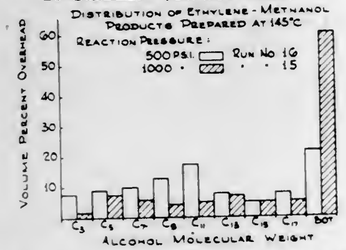
with at least the theoretical calculated amount

but not exceeding a two-mole excess of an alcohol of the formula



at 50–120° C. in the presence of a catalytic amount up to 0.5% of an acid-acting condensation catalyst based on the weight of the alcohol.

2,668,181
PRODUCTION OF ALCOHOLS
Fred W. Banes, Westfield, William P. Fitz Gerald, Elizabeth, and Joseph F. Nelson, Rahway, N. J., and Edwin R. Gilliland, Arlington, Mass., assignors to Standard Oil Development Company, a corporation of Delaware
Application December 2, 1949, Serial No. 130,784
10 Claims. (Cl. 260—642)



1. A process for reacting an alcohol selected from the group consisting of aliphatic and cycloaliphatic primary and secondary alcohols with a low molecular weight normally gaseous monoolefin hydrocarbon in the presence of a peroxide activator selected from the group consisting of ditertiary butyl peroxide and tertiary butyl hydroperoxide at a temperature of 100° C. to 250° C. for a period of one to five hours and at a pressure between 250 and 1500 p. s. i. g., and recovering from the reaction a mixture of alcohols of increased molecular weight up to about 300.

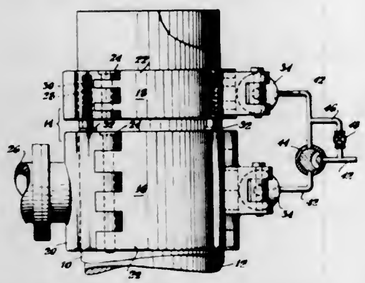
2,668,182
POLYUNSATURATED FLUOROOLEFINS
William T. Miller, Ithaca, N. Y.
No Drawing. Application July 13, 1950, Serial No. 173,689
26 Claims. (Cl. 260—653)

14. The method of preparing hexafluorobutadiene-1,3 which comprises providing 3,4-dichlorohexafluorobutene-1, and removing the chlorine from the latter compound by causing said compound to react with zinc.

19. The method of preparing a fluorobutadiene consisting of carbon and halogen which comprises providing an at least partially halogen saturated derivative of the desired fluorobutadiene, said latter halogen being selected from at least one of the group consisting of chlorine and bromine, and removing said halogen atoms from said derivative to leave said fluorobutadiene.

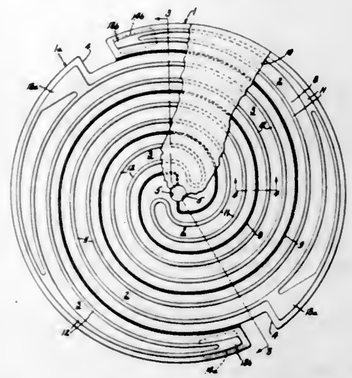
ELECTRICAL

2,668,183
ELECTRODE SUSPENSION MECHANISM AND METHOD OF OPERATION
Kjeld Foyn, Oslo, Norway, assignor to Elektrokemisk A/S, Oslo, Norway, a corporation of Norway
Application September 11, 1951, Serial No. 246,062
Claims priority, application Norway September 13, 1950
8 Claims. (Cl. 13—16)



1. An electrode suspension mechanism for an electric furnace comprising a main and an auxiliary holding clamp for the electrode positioned a short distance apart each of said clamps being capable of holding the entire weight of the electrode, means for opening the separate clamps whereby the electrode and auxiliary clamp may be lowered until said auxiliary clamp is stopped by the main clamp, and means for returning the auxiliary clamp to its starting position when the main clamp is closed and the auxiliary clamp opened.

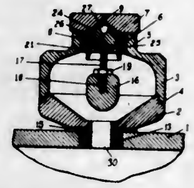
2,668,184
MULTIPLE PHOTOCELL STRUCTURE
Clement F. Taylor, Lynn, Walton E. Briggs, Lynnfield Center, and John F. Weary, Lynnfield, Mass., assignors to General Electric Company, a corporation of New York
Application February 15, 1952, Serial No. 271,746
17 Claims. (Cl. 136—89)



1. A multiple photocell structure comprising two similar spiral-shaped photocells interlinked in a common plane so that spiral portions of one cell lie between spiral portions of the other cell and spaced from each other by gaps of approximately 0.2 inch filled with amorphous selenium which insulates the cells from each other and unites the cells into one mechanical

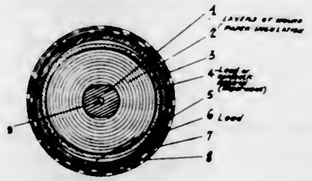
structure, the outer ends of said spiral cells being shaped such that the outline of the complete structure is substantially circular.

2,668,185
VISIBLE LIQUID LEVEL INDICATING NONSPILL VENT MECHANISMS
Robert Cecil Castlen, West Palm Beach, Fla.
Application November 20, 1950, Serial No. 196,609
6 Claims. (Cl. 136—178)



1. A visible liquid level indicating non-spill vent mechanism for storage battery cells comprising a transparent reservoir threadedly connected to said battery cell, a removable cap threadedly engaging said reservoir, a semi-spherical recess provided in said cap a vent port in said cap, a spherical vent valve positioned in said cap recess, a vent port normally registering with said reservoir and extending through said vent valve and terminating in an enlarged port registering with said vent port in said cap, sleeve means fastened to said semi-spherical recess and positively positioning said vent valve and forming a seat therefor, and pendulum actuated means rotating said vent valve to position said ports in register and out of register.

2,668,186
ELECTRIC CABLE WITH OIL PRESSURE OUTSIDE THE INSULATION
Louis Domenach and Louis Macardier, Lyon, France, assignors to Compagnie Generale d'Electricite, Paris, France, a corporation of France
Application May 28, 1948, Serial No. 29,684
3 Claims. (Cl. 174—12)



1. In an oil filled electric cable of high voltage, subject to considerable variations of elevation, having wound paper insulation wound around the cable conductor and impregnated with a fluid impregnating oil, an internal conducting membrane around said insulation and being impervious to said impregnating oil so impregnating said cable insulation, an external electrically conducting pressure resisting envelope arranged surrounding and spaced from said membrane and forming an integral part of said cable, a metallic reinforcing sheath mounted surrounding and in contact with said membrane, the channel space between said envelope and said membrane containing a pressure liquid of substantially the same density as said fluid impregnating oil, and compensating means for compensating for the variations of the pressure of said fluid impregnating oil, said means acting on said pressure liquid along the whole length of the cable, and said means comprising individual external one-chamber reservoirs distributed along the length of said cable and containing said pressure liquid and being in communication with the space between said envelope and said membrane at spaced points along the length of the cable, each said one-chamber reservoir comprising a casing and a float displaceably mounted in said casing and a liquid outlet connection from said casing on a first side of said float and being connected to said channel space between said envelope and said membrane, a pressure gas contained in the portion of said casing on the second side of said float, and said pressure fluid being contained in the portion of said casing on said first side of said float connected to said channel space, the pressure of said pressure gas contained in each said reservoir being adjusted according to the altitude of the respective reservoir in such manner as to assure by compensation the complete impregnation with impregnating oil of said wound paper insulation.

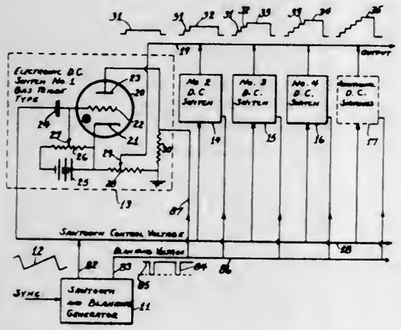
2,668,187
LEAD THROUGH INSULATOR
Walter A. Von Wald, Jr., Washington, D. C., and Thomas E. Marshall III, Arlington, Va., assignors to Dayton Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application June 17, 1949, Serial No. 99,823
6 Claims. (Cl. 174—153)
(Granted under Title 35, U. S. Code (1952), sec. 266)



3. A lead through insulator and terminal comprising, a dielectric body member having a mounting flange at one end thereof, a wire gripping chuck assembly molded into said body member and having its wire gripping end terminating inside said body member and its other end protruding from the other end of said body member, the flange end of said body member having inner and outer coaxial cylindrical recesses formed therein to provide access to the wire gripping end of said chuck assembly, said outer cylindrical recess having a larger diameter than said inner cylindrical recess, a hollow cylinder integrally formed in the chuck assembly at the wire gripping end thereof and disposed coaxial with said body member recesses, said hollow cylinder having an inner diameter equal to that of said inner body recess to provide a straight-walled

channel penetrating said chuck assembly, a flexible tapered member having an axial bore of the same inner diameter as said hollow cylinder, the larger end of said tapered member having an outer diameter substantially equal to the inner diameter of said outer body recess and insertable therein.

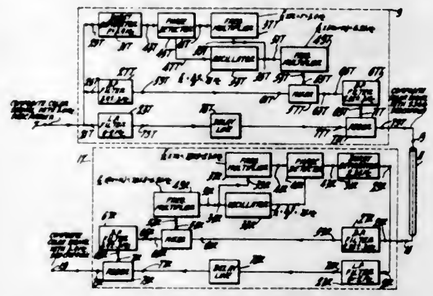
2,668,188
TELEVISION GAMMA TEST METHOD AND APPARATUS
Rubert S. Naslund, Menomonee Falls, Wis.
Application December 19, 1949, Serial No. 133,830
11 Claims. (Cl. 178—5.4)



10. A method of testing a video reproducing system for linearity of light value reproduction, said system having a viewing screen and means for scanning said viewing screen at definite frequencies, comprising the steps of generating a sawtooth voltage wave, generating a group of direct current pulses of different durations but terminating in phase and having the same frequency as said wave, said pulses having respective different voltage values in accordance with selected voltage values along said wave, corresponding to predetermined individual values of object brightness, superimposing the pulses to derive a stepped voltage wave, and applying said stepped voltage wave to the input circuit of the system in synchronism with a scanning frequency of the system, whereby a shaded bar pattern is obtained on the viewing screen of the system.

11. A method of testing a color video reproducing system for fidelity of color value reproduction, said system having a viewing screen and means for scanning said viewing screen at definite frequencies, comprising the steps of generating a sawtooth voltage wave, generating a group of direct current pulses of different durations but terminating in phase and having the same frequency as said wave, said pulses having respective different voltage values in accordance with selected voltage values along said wave, corresponding to predetermined individual values of brightness of a primary color component of an object, superimposing the pulses to derive a stepped voltage wave, applying said stepped voltage wave to the input circuit of the system in synchronism with a scanning frequency of the system, and cyclically applying predetermined different values of D. C. voltage to the input circuit of the system in synchronism with the other scanning frequency of the system, whereby a colored checkerboard pattern is obtained on the viewing screen of the system.

2,668,189
COLOR TELEVISION
Joseph G. Reddeck, New Brunswick, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 1, 1952, Serial No. 269,477
3 Claims. (Cl. 178—5.4)

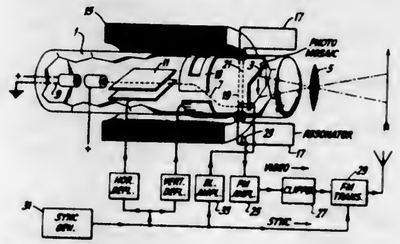


1. Apparatus to shift the frequency of the color subcarrier of a composite color television signal from a first frequency to a second frequency, the ratio of the higher of these frequencies "F" to the lower of these frequencies "*f*" being equal to

$$\frac{n}{m}$$

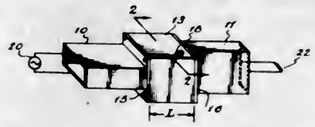
said composite color television signal including a burst at said first frequency, said apparatus comprising: a source of composite color television signal whose color subcarrier is at said first frequency, a first band pass filter having input and output terminals and designed to pass said first frequency together with sidebands of a predetermined width, a connection between the source of composite color television signal and the input terminal of said first band pass filter, a burst separator circuit having input and output terminals and arranged to separate said first frequency from said composite color television signal, a connection between the source of composite color television signal and the input terminal of said burst separator circuit, an oscillator having an output terminal and running at a frequency equal to F/n, a first multiplier having input and output terminals and whose multiplication factor is such that when connected to said oscillator the multiplier output will have a frequency equal to said first frequency, a connection between the oscillator output terminal and the input terminal of said first multiplier, a phase detector connected between the output terminals of said burst separator and of said first multiplier and arranged to produce a signal, a connection to apply said signal to said oscillator to lock its operating frequency with said first frequency, a second multiplier having input and output terminals and whose multiplication factor is equal to the sum of m and n, a connection between the output terminal of said oscillator and the input terminal of said second multiplier, a mixer having input and output terminals, a connection between an input terminal of said mixer and the output terminal of said second multiplier, a connection between the output terminal of said first band pass filter and an input terminal of said mixer, a second band pass filter having input and output terminals and designed to pass said second frequency together with sidebands of a predetermined width, a connection between the output terminal of said mixer and the input terminal of said second band pass filter, a low pass filter having input and output terminals, a connection between said source of composite color television signal and said low pass filter input terminal, an adder circuit having input and output terminals, a connection between the output terminal of said low pass filter and an input terminal of said adder circuit, a connection between the output terminal of said second band pass filter and the input terminal of said adder circuit, utilization means having an input terminal, and a connection between the output terminal of said adder circuit and the input terminal of said utilization means.

2,668,190
TELEVISION IMAGE PICKUP SYSTEM
George C. Szikiai, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 5, 1947, Serial No. 759,279
6 Claims. (Cl. 178—7.2)



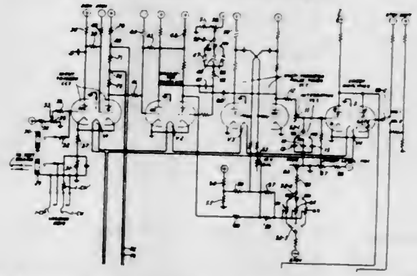
1. A device for converting images into electric signal trains comprising in combination an electron reflector electrode having an electron image forming surface, means for directing an electron scanning beam at said image forming surface, and a resonant signal output circuit having a capacitive element and an inductive element, said capacitive element comprising a pair of grid-like structures positioned in the path of said electron beam whose principal plane is substantially parallel to said reflector electrode.

2,668,191
WAVE ENERGY POLARIZATION CONVERTER
Seymour B. Cohn, Flushing, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application June 30, 1949, Serial No. 102,369
1 Claim. (Cl. 333—21)



Ultra-high frequency apparatus for transmitting and rotating the plane of polarization of electromagnetic energy comprising a pair of rectangular wave guides having their longitudinal axes in substantial alignment and their major transverse axes at right angles, a hollow conductive body joining the adjacent ends of the wave guides, said body having a cavity with a square cross-sectional outline and opening at opposed ends thereof into said hollow wave guides with the internal side walls forming the cavity being parallel to the walls of the wave guides, said cavity extending substantially a half wavelength at the operating frequency between the adjacent ends of the wave guides, and a conductive probe extending inwardly at an angle of substantially 45° from one corner thereof with respect to said major transverse axes of the wave guides, said probe being approximately one-quarter wavelength long at the operating frequency and being perpendicular to the longitudinal axes of the wave guides.

2,668,192
TELEGRAPH SIGNAL DISTORTION INDICATING AND MEASURING DEVICE
Samuel I. Cory, Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 2, 1952, Serial No. 280,102
7 Claims. (Cl. 178—69)

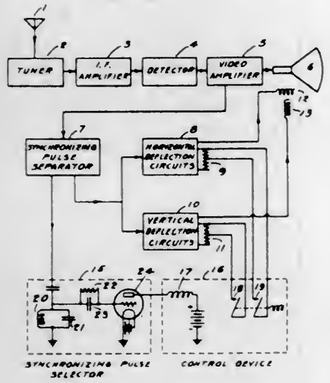


1. A device for displaying along an axis of the screen of a cathode ray tube luminous manifestations to indicate and measure bias, end distortion and peak distortion of telegraph signals comprising a source of start-stop permutation code signals, a cathode ray tube, an input circuit for receiving signals from said source, a signal timer circuit operative in response to the start element of a signal applied to said input circuit to maintain itself in a fixed operated condition for a predetermined duration, a pulse timer circuit for timing the elements of a start-stop permutation code signal and means connected therewith responsive to the operation of said signal timer circuit for producing for each of said signals from said source a uniform triangular-shaped wave having cycles corresponding in number to the elements in a signal from said source, circuit means for impressing said triangular-shaped wave voltages on the horizontal deflection plates of said cathode ray tube to produce a cathodic beam sweep traveling to and fro for each cycle at a uniform rate across an axis of said tube, and a differentiating circuit path responsive to a portion of the output voltage of said input circuit for causing a momentary vertical deflection in said cathodic beam sweep to produce a momentary "pip" of light in conjunction with the sweep whereby any displacement of an incoming signal transition from its correct position is indicated.

2,668,193
AUTOMATIC SWITCHING OF TELEVISION RECEIVERS
Edward W. Chapin, Baltimore, and Willmar K. Roberts, Laurel, Md.
Application November 8, 1950, Serial No. 194,698
6 Claims. (Cl. 178—69.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A television receiver having, a selector device resonant to a television synchronizing signal occurring at a predetermined frequency and passing only said predetermined frequency, a

control device connected to the output of said resonant selector device, said control device being operated by said predetermined frequency when passed by said resonant selector device, horizontal and vertical deflection circuits each having a plurality of alternately selectable adjustments producing different predetermined frequencies and each being connected to said control device and connected to produce one of at least two predetermined deflection frequencies in response to said control device, and a connection for applying said synchronizing pulses to both deflection circuits for synchronizing those circuits.



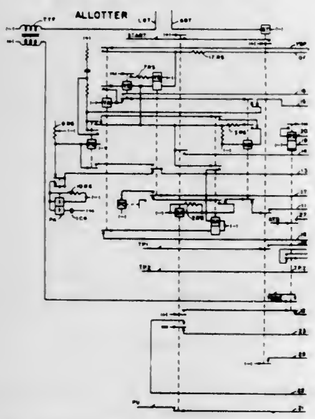
2,668,194

FINDER-ALLOTTER CIRCUIT FOR TELEPHONE SYSTEMS

Frank Kessler and William W. Pharis, Rochester, N. Y., assignors to Stromberg-Carlson Company, a corporation of New York

Application September 13, 1949, Serial No. 115,392

8 Claims. (Cl. 179—18)



1. In an automatic telephone system, a group of line finder switches each having primary and secondary movements, a common allotter for allotting said finder switches for use, a pulse generator for operating an allotted finder switch in its primary and secondary movements, means including said pulse generator and a plurality of counting relays for counting off a plurality of pulses for introducing a time delay corresponding to the duration of said plurality of pulses between the primary and the secondary movement of said finder, and means including said plurality of counting relays for transferring said pulse generator from the means for operating the allotted finder switch in its primary movement to the means for operating the allotted finder switch in its secondary movement.

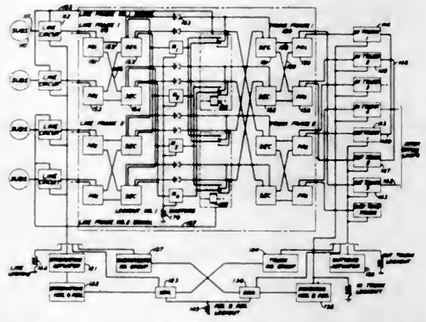
2,668,195

MARKING AND SWITCHING SYSTEM

Sherman T. Brewer, Chatham Township, Morris County, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 29, 1949, Serial No. 135,769

11 Claims. (Cl. 179—22)



1. In a telephone switching system, a first plurality of groups of switching apparatus, a second plurality of groups of switching apparatus, a plurality of junction means electrically intermediate said first and said second pluralities of groups and common to all groups in both of said pluralities of groups of switching apparatus, and means individual to each of the groups in said first plurality of groups and operative each time any one of said first plurality of groups is employed for operatively connecting all of said junction means with said one of said groups only.

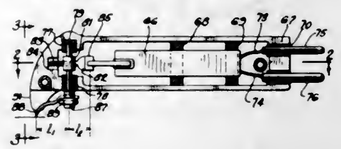
2,668,196

PHONOGRAPH APPARATUS

Benjamin B. Bauer, Oak Park, Ill., assignor to Shure Brothers, Incorporated, Chicago, Ill., a corporation of Illinois

Application April 30, 1949, Serial No. 90,687

5 Claims. (Cl. 179—100.41)



1. In a mechano-electric transducing device, a bender-type of transducing member, support means for mounting said transducing member at a portion removed from one end thereof to leave said end free, a driving member, means for mounting said driving member adjacent to the free end of said transducing member and for angular oscillation about an axis extending transversely with respect to the plane of motion of a point of said free end, a part fixed to said driving member and displaced transversely with respect to said axis, whereby angular oscillation of said driving member produces to and fro motion of said part, a rigid coupling member having spaced apart arms embracing opposite surfaces of the free end portion of said transducing member and having a portion connecting said arms and extending beyond said free end of said transducing member, said extending portion operatively engaging said part, whereby to and fro motion of said part produces bending deflections of said transducing member, said driving member being apertured transversely thereof to receive stylus means.

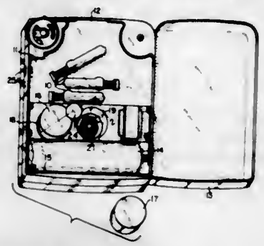
2,668,197

WEARABLE ELECTRONIC HEARING AID

Gilbert E. Gustafson, River Forest, and Byron R. Criswell, Waukegan, Ill., assignors to Zenith Radio Corporation, a corporation of Illinois

Application September 26, 1950, Serial No. 186,836

7 Claims. (Cl. 179—107)



1. A wearable electronic hearing aid comprising: a casing adapted to be worn by a person; an audio-signal translating circuit within said casing including at least one electron-discharge tube of the miniature type; a battery included in said circuit as a source of space current for said tube; a pair of similar batteries positioned in said casing with their axes parallel and with like terminals adjacent one another; a locking member of electrically conductive material positioned essentially between said pair of batteries for simultaneously mechanically engaging a minor portion of adjacent terminals of said pair of batteries to releasably retain said pair of batteries in position within said casing and for concurrently making electrical connections to said pair of batteries; a filament circuit for said tube including said locking member and a switch having a first operating position in which one of said pair of batteries supplies current to said filament circuit and having a second operating position in which the other of said pair of batteries supplies current to said filament circuit; and a switch actuator for actuating said switch with respect to said operating positions selectively to include a particular one of said batteries in said filament circuit.

2,668,198

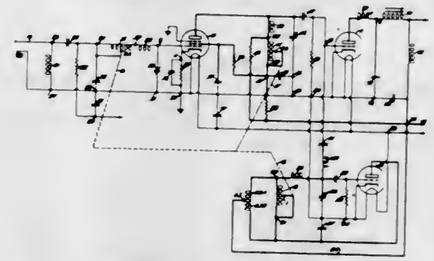
TUNER FOR TELEVISION RECEIVERS

Emmery J. H. Bussard, Cincinnati, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware

Original application May 5, 1950, Serial No. 160,316, now Patent No. 2,615,983, dated October 28, 1952. Divided and this application May 8, 1951, Serial No. 225,083

2 Claims. (Cl. 179—171)

1. In an input tuner for a television receiver of the type which includes an antenna system having an unbalanced transmission line, the combination of: First, a three element π-type reactive impedance-matching network having two arms, said network comprising an input shunt inductor arm connected across said transmission line, a series capacitor connected between the arms and an output shunt capacitor arm, said inductor arm providing attenuation against carrier signals having frequencies on the order of those of the amplitude modulation broadcast band (540 to 1600 kilocycles), said inductor arm and said series capacitor being series resonant at a frequency above the intermediate frequencies of said television receiver and considerably below the television bands extending from 54 to 216 megacycles, whereby said inductor and series capacitor function as a high pass filter to reject the undesired signals of frequencies below the series resonant frequency, both of said capacitors functioning as a capacitance divider to step down the impedance between the input and output of said impedance-matching network, the circuit comprising both of said arms and said series capacitor being tuned to parallel resonance at a frequency close to that of the lowest television channel, whereby the output of the impedance-matching network appears to be capacitively reactive throughout the television



band and substantial carrier frequency current is built up across said output capacitor arm; Second, a low impedance input, high impedance output, L-type selector network, comprising: an output shunt capacitor arm and series manually variable inductance, connected between the high potential terminal of the output arm of said π-type reactive impedance-matching network and the selector network output arm, said L-type network being tuned to series resonance to select the desired television channel and at the same time providing impedance transformation from a low impedance at its input to a high impedance at its output; and, Third, a radio frequency amplifier stage having a cathode-control electrode input circuit coupled to the output shunt capacitor arm of said selector network, and means for stabilizing the input capacitance and conductance of said tube comprising a stabilizing resistor in circuit with said cathode and the capacitance between said cathode and control electrode which consists of a series combination of said output arm capacitor of said selector network and another capacitor connected in shunt with said stabilizing resistor.

2,668,199

CONDUCTOR SYSTEM FOR ELECTRIFIED RAILS

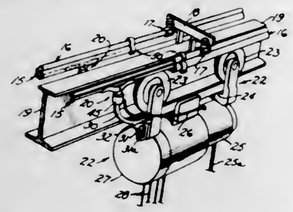
Ralph Connell, Los Angeles, Calif., assignor to Angelus Engineering Corporation, South Gate, Calif., a corporation of California

Application September 2, 1947, Serial No. 771,738

10 Claims. (Cl. 191—25)

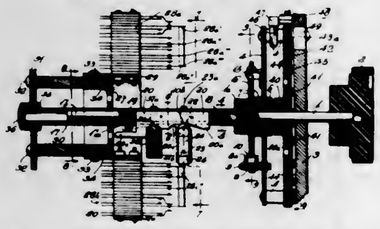
1. In combination in an overhead electrified system: a conductor bar having a cross section approximating a figure 8 shape; and a split in-

tegral insulating shroud completely enclosing and fully insulating said bar circumferentially and having a channel fitting over and retained on one lobe of said figure 8, the lower portion of said shroud being split and depending below and spaced from the other lobe of said figure to form at the sides of said other lobe and below it a



channel for reception of a current collector movable therethrough and through the split and along said other lobe, said shroud being normally closed at the line of split, said shroud being flexible and yieldable to expand to pass said collector and to contract to close at the line of split after said collector has passed therebeyond.

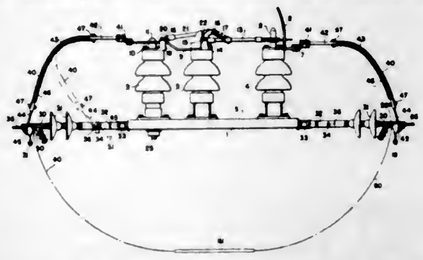
2,668,200
ROTARY MULTIPLE SELECTOR SWITCH
Grady O. Glaze, Washington, D. C.
Application December 24, 1951, Serial No. 263,121
10 Claims. (Cl. 200—1)



1. A switching system comprising a frame structure, a shaft member journaled longitudinally of said frame structure and rotatable in either direction therein; a sleeve member extending radially with respect to said shaft member, a plunger slidable in said sleeve member, means for lineally shifting the position of said shaft member and correspondingly ejecting said plunger in a radial direction, a multiplicity of spring pile-up assemblies supported with respect to said frame structure, actuating means for each of said spring pile-up assemblies disposed in a position coplanar with said plunger, said plunger in ejected position establishing pressure contact with the actuating means of a selected spring pile-up assembly for displacing the spring pile-up assembly in a radial direction to operating position.

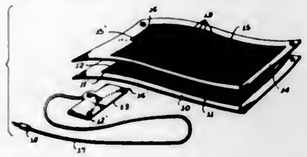
2,668,201
CIRCUIT BREAKER ISOLATING DEVICE
William E. Welsh, Allentown, Pa., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware
Application August 9, 1950, Serial No. 178,467
10 Claims. (Cl. 200—48)

1. In an electrical circuit breaker structure including a stationary terminal, a grounded support including a dead-end anchoring means insulated therefrom and supporting said terminal in insulated relationship thereto, and a ground or neutral connection on said support; a flexible conductor including a releasable clamping means at one end on said dead-end and normally providing exclusively an electrical circuit between said stationary terminal and said dead-end



anchoring means, said releasable clamping means releasably engaged with said dead-end anchoring means to temporarily disconnect the electrical circuit and releasably engageable with said ground or neutral connection.

2,668,202
MOISTURE RESPONSIVE SIGNALING DEVICE
Benjamin D. Kaplan, Burbank, Calif.
Application August 2, 1952, Serial No. 302,310
9 Claims. (Cl. 200—61.05)

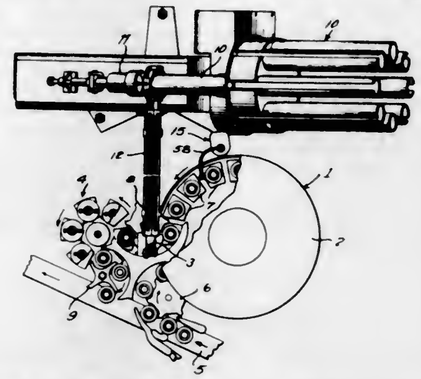


1. A moisture responsive device comprising a flexible pad member made of electrical insulating material, a first electrode comprising a continuous layer of electrically conducting material on one surface of said pad member, and a second electrode containing a plurality of openings therethrough on the opposite surface of the pad member whereby the first and second electrodes are spaced apart by said pad member in substantially parallel planes when the pad member is lying flat.

2,668,203
BOTTLE CAPPING MACHINE CONTROL MECHANISM
Harold W. Martin, Malverne, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application October 12, 1951, Serial No. 250,987
3 Claims. (Cl. 200—61.41)

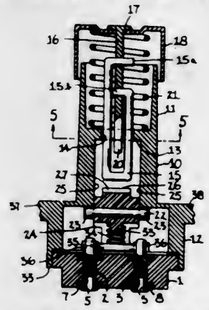
1. A bottle actuated control mechanism for a bottle capping machine, comprising a support, a vertical shaft rotatably mounted in said supoprt, a bottle actuated lever secured to said shaft and operative when actuated to turn said shaft, means restoring said shaft to its original pisition when said lever is released, an arm rigidly secured to said shaft to oscillate therewith and extending outwardly therefrom, a cam actuator mounted on the free end of said arm, a rocker arm mounted to rock about a horizontal axis and having a cam surface on which said cam actuator rides, spring means holding said cam surface against said cam actuator, a mercury switch mounted on said rocker arm and adapted to be opened or closed by the rocking of said rocker arm, said cam surface being shaped to hold said rocker arm in position to open said switch when

said lever is in released position and being movable by said cam follower to tilt said rocker arm



to switch closing position in response to actuation of said lever.

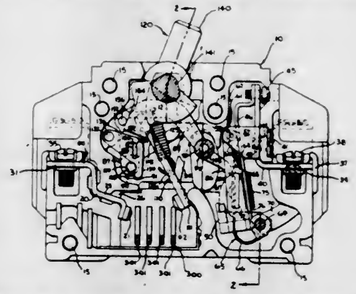
2,668,204
SWITCH
William C. Tregoning, Shaker Heights, Ohio, assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware
Application February 23, 1951, Serial No. 212,401
4 Claims. (Cl. 200—68)



1. In a switch of the character described, a terminal base, a housing secured to said base, a rocker mounted for pivotal movement in said housing, a contactor bar below said rocker, spring means interposed between said rocker and contactor bar, and means for causing rocking movement of said rocker between predetermined positions, said last-named means comprising an inverted cup-like member mounted on said housing, a push bar secured to said member, and a plunger secured to and depending from said bar, said plunger having an inturned end portion journalled in said push bar and a second inturned end portion journalled in said push bar at a point spaced vertically from the journalling of said first-named end portion.

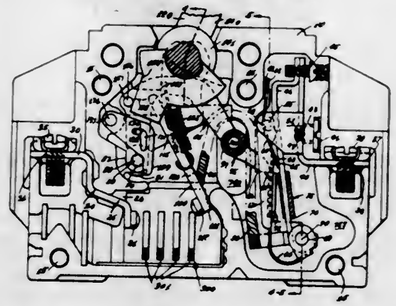
2,668,205
MULTIPOLE CIRCUIT BREAKER
Felix E. Myers, Haddon Heights, N. J., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 31, 1951, Serial No. 254,065
5 Claims. (Cl. 200—88)

1. In a multi-pole circuit breaker, a plurality of fixed contacts, a plurality of movable contact arms carrying movable contacts, said arms having a circuit closed position in which their movable contacts engage said fixed contacts and a circuit open position in which said contacts are disengaged, a plurality of U-shaped cradles pivotally mounted at one end, a tie bar, said tie bar comprising pins and insulating sleeves, said pins engaging said cradles, said insulating sleeves rigidly securing said pins to each other and connecting said cradles for simultaneous motion, a plurality of springs, one end of said springs being secured to said movable arms and the opposite end of said springs being secured to said cradles at the apex of the U-shaped cradles, a pivotally mounted operating handle having a manually operable end on one side of the pivot mounting



and having a plurality of notches on the opposite end of the pivot mounting, said movable contact arms being pivotally mounted in said notches and extending substantially in the longitudinal direction of said handle, with said movable contacts on the end opposite the pivotal mounting of said arms, the notches in said handle being on one side of said springs when said handle is in closed position so that said springs apply a closing force on said arms for operating said arms to circuit closed position, and the notches on said handle being on the opposite side of said springs when said handle is in open position so that said springs apply an opening force on said arms for operating said arms to circuit open position, and a plurality of fault current responsive means.

2,668,206
ASSEMBLY OF TWO AND THREE POLE CIRCUIT BREAKERS
William H. Edmunds, Havertown, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 28, 1951, Serial No. 258,615
13 Claims. (Cl. 200—88)



1. In a multi-pole circuit breaker, a plurality of fixed contacts, a plurality of movable contact arms carrying movable contacts, said arms having

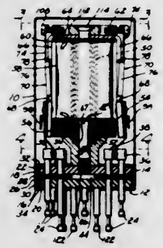
a circuit closed position in which their movable contacts engage said fixed contacts and a circuit open position in which said contacts are disengaged, a plurality of U-shaped cradles, one of said cradles having one end latched and pivotally mounted at its opposite end, the remaining cradles being only pivotally mounted at one end, a tie bar, said tie bar rigidly connecting said cradles for simultaneous motion, a plurality of springs, one end of said springs being secured to said movable arms and the opposite end of said springs being secured to said cradles at the apex of the U-shaped cradles, a pivotally mounted operating handle having a manually operable end on one side of the pivot mounting and having a plurality of notches on the opposite end of the pivot mounting, said movable contact arms being pivotally mounted in said notches and extending substantially in the longitudinal direction of said handle, with said movable contacts on the end opposite the pivotal mounting of said arms, the notches in said handle being on one side of said spring when said handle is in closed position so that said springs apply a closing force on said arms for operating said arms to circuit closed position, and the notches on said handle being on the opposite side of said springs when said handle is in open position so that said springs apply an opening force on said arms for operating said arms to circuit open position, a plurality of fault current responsive means, one of said means having a latch for latching the said cradle, a tripper bar, said tripper bar being operable by said fault current responsive means, an insulating housing, said housing having a plurality of recesses, insulating walls separating said recesses, each of said poles being mounted on one of said recesses, aligned openings in said separating walls, said tie bar, said tripper bar and said longitudinal portion of said handle extending through said openings from one end to the other of said housing, means securing said cover plates at the said ends of said housing.

2,668,207

ELECTROMAGNETIC RELAY OR SWITCH

Bertil S. Bengtsson, Hartford, Conn., assignor to The Hart Manufacturing Company, Hartford, Conn., a corporation of Connecticut

Application July 22, 1949, Serial No. 106,133
7 Claims. (Cl. 200—103)



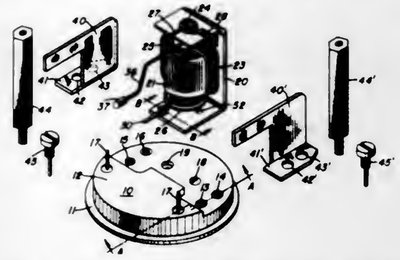
4. In a relay, the combination of a base, a magnet core supported by and extending perpendicularly from said base, a coil surrounding said core, a pole arm connected to the outer end of said core and extending parallel thereto toward said base adjacent the outer surface of said coil, said pole arm having along and intermediate the ends of opposed edges thereof an elongated notch, a pole piece extending radially from said core adjacent the end of said coil nearest said base, an elongated flexible member extending along said pole arm and at one end engaging and projecting beyond the end thereof, the other end of said member being spaced laterally from the other end of said pole arm and secured against movement in a direction away from said pole arm, a flange extending from each of the opposite edges of said flexible member and disposed respectively in the notches in the opposed edges of said pole arm to position said member relative to said arm, an armature connected to the projecting end of said flexible member and supported thereby adjacent the free end of said pole arm for pivotal movement toward and away from said pole piece, a fixed contact supported by said base, and a contact carried by said armature and movable thereby to and from engagement with said fixed contact.

2,668,208

SENSITIVE RELAY

Anthony H. Lamb, Hillside, and Elmer G. De Mott, Chatham, N. J., assignors to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey

Application September 15, 1951, Serial No. 246,726
10 Claims. (Cl. 200—110)



1. In a relay of the type including a pair of stationary contacts and a cooperating movable contact for controlling an electrical circuit, the combination of a base of insulating material, a U-shaped bracket secured to the base, a permanent magnet core secured to the bracket and disposed between the legs of the bracket, a movable coil pivotally supported by the bracket and rotatable about said magnet core, a movable arm secured to the movable coil and having a free end normally extending beyond the range of magnetic influence of the magnet core, a rider of magnetic material carried by the free end of said movable arm, and soft-iron members secured to the base and electrically insulated from each other and the bracket, said members being disposed on opposite sides of and spaced from the movable coil and magnetic core and including portions disposed in the field of travel of the said rider, the said rider and soft-iron members constituting the contacts for controlling the electrical circuit.

2,668,209

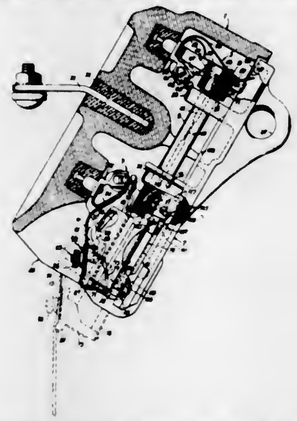
FUSE CUTOUT

James J. Cooper and Oliver A. Vordtriede, St. Louis, Mo., assignors, by mesne assignments, to A. B. Chance Company, Centralia, Mo., a corporation of Missouri

Application June 4, 1951, Serial No. 229,814
19 Claims. (Cl. 200—114)

1. A fuse cutout comprising a box containing upper and lower terminals and having front and bottom openings, pivot-receiving hinge socket means adjacent the bottom opening, a fuse holder assembly constituted by a door adapted to close said front opening and a fuse tube carried by

the door, said tube having a lower opening and an upper terminal-engaging contact, a lower terminal-engaging contact movable from a retracted position with respect to the lower end of the tube to an extended position, said lower terminal being biased toward said extended position, said contacts being adapted to fasten a fuse link to retract the lower contact upward, means movably carried on the door and having movable pivot means cooperating with said hinge socket means, a latch element between said lower contact and said movable means adapted to maintain the latter immovable when the lower contact is retracted by an unbroken fuse link but to release



said movable means when the fuse link breaks thereby permitting the lower contact to assume its extended position, stop means mounted for operation between said movable means and fuse holder assembly and having a first position in which the movable means remains immovable with respect to the fuse holder assembly after release by the latch element and having another position wherein the movable means has free movement relative to the door and wherein the upper contact is completely disengaged from the upper terminal to allow swinging of the entire door and tube assembly to a depending position completely opening the box, and means for releasing and holding said stop means at either of said two positions.

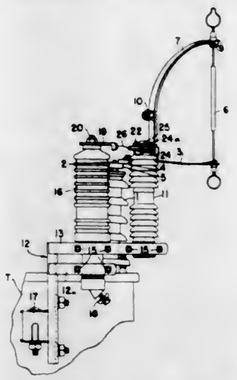
2,668,210

ISOLATING GAP ELECTRODE

Clifford W. Petersen, Wauwatosa, Wis., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware

Application November 30, 1950, Serial No. 198,336
3 Claims. (Cl. 200—115)

1. In an electrical protective assembly including a support member, a surge arrester having a terminal and a fuse cutout having a terminal, the combination of a pair of cooperating isolating gap electrode members, said surge arrester and said fuse cutout each being supported in adjacent spaced relationship by said support member, the axes of revolution of said arrester and said cutout being substantially parallel to one another, one of said electrode members being in electrical connection with and secured to the terminal of said arrester, the other of said electrode members being in electrical connection with and secured to the terminal of said cutout, said electrode members being positioned to lie in substantially a common plane, and one of said electrode members having an arcing surface in said plane substantially arcuate in contour and rotatable about one of said axes of revolution, where-



by a predetermined spaced, fixed gap dimension is normally maintained between said electrode members.

2,668,211

CONNECTOR WITH ROTATABLY MOUNTED CONDUCTOR SECURING MEANS

Irving Frederick Matthysse, Bronx, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York

Application June 16, 1949, Serial No. 99,485
4 Claims. (Cl. 200—115.5)



1. A connecting device for electrical connectors having a hollow body comprising a pair of connecting sleeves; means for detachably securing the sleeves together; a fuse element having integral plugs on each side thereof and freely mounted and entirely enclosed within one of the sleeves; a conductor attaching member freely mounted in each sleeve each having a recess on one end thereof to receive the respective plugs; said fuse element slidably mounted along the longitudinal axis of its sleeve; removable resilient retaining rings mounted to the inner surface of the sleeves to retain said fusible element and said conductor attaching members within their respective sleeves whereby each may be longitudinally removed from their sleeves.

2,668,212

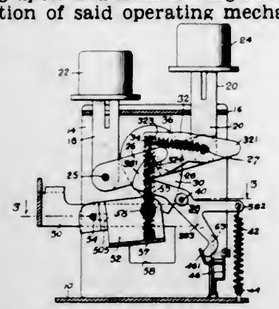
RESETTABLE SWITCH

Harold E. Schleicher, West Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut

Application November 8, 1951, Serial No. 255,364
11 Claims. (Cl. 200—116)

1. In a circuit controller, manually operable means, movable contact carrying means, operating mechanism including a floatingly mounted tension spring connected at one end to said movable contact carrying means for moving contact means to open and closed positions with a snap, means connected to the other end of said spring transmitting the motion of said manually operable means to said operating mechanism, means responsive to overload cur-

rent acting upon said transmitting means to permit operation of said operating mechanism and



to move the other end of said spring means independent of said manual means on overload.

2,668,213

AUTOMATIC CIRCUIT BREAKER

Paul M. Christensen, West Orange, N. J., assignor to Federal Electric Products Company, Essex County, N. J., a corporation of Delaware

Original application October 8, 1949, Serial No. 120,361, now Patent No. 2,648,736, dated August 11, 1953. Divided and this application April 10, 1952, Serial No. 281,588

10 Claims. (Cl. 200—116)



1. In an automatic circuit breaker having a casing and adapted for use with a cover member, a contact carrier movable in said casing, actuating means for said carrier, a thermostatic latch releasably interengaging said actuating means and said carrier in the normal load conditions of the circuit breaker and operable upon overload to release said actuating means for movement of the carrier to open the breaker, and a heating device for said latch; means for removably mounting said heating device in operating position in relation to said latch in said casing, said mounting means having means for removably securing said cover member to said circuit breaker.

2,668,214

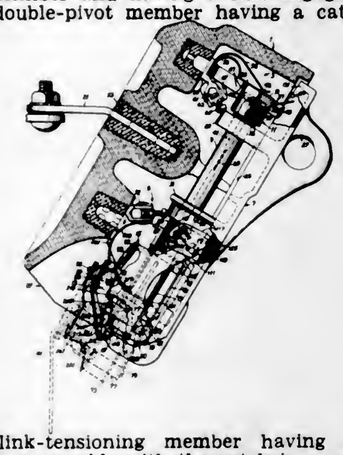
FUSE CUTOUT

Oliver A. Vordtriede, St. Louis, Mo., assignor, by mesne assignments, to A. B. Chance Company, Centralia, Mo., a corporation of Missouri

Application February 9, 1953, Serial No. 335,943

5 Claims. (Cl. 200—117)

1. A fuse cutout comprising a support having upper and lower line terminals, a double-pivot member pivoted to the support at one of its pivots, a fuse holder pivoted to said double-pivot member at its other pivot, an upper contact member on the fuse holder, a lower contact member slidably mounted upon the fuse holder for longitudinal movement thereof from a retracted position to an extended position, said lower contact member being conductively engageable with the lower line terminal, means latching the double-pivot member by the lower contact member when the latter is in its retracted position, means for holding a fuse link between the upper and lower contact members to retain the lower contact member in its retracted and latching position, a link-tensioning member pivoted on the lower contact member and having a fuse-engaging end, said double-pivot member having a catch and



said link-tensioning member having holding means engageable with the catch in a retracted position of the lower contact member and adapted to be held in engagement by an unbroken fuse link, and spring means biasing said link-tensioning member to move in a direction to tension the fuse link and to release said holding means from said catch when the link is severed.

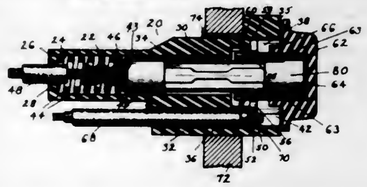
2,668,215

HOLDER FOR CARTRIDGE ENCLOSED PROTECTORS FOR ELECTRIC CIRCUITS

Manfred F. Duerkob, St. Louis, Mo., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware

Application August 7, 1948, Serial No. 43,035

4 Claims. (Cl. 200—129)



1. A holder for cartridge enclosed protectors for electric circuits that comprises a two-part elongated body that is of insulation material throughout the length thereof, one of said parts having a portion formed as an imperforate continuous wall to define a central bore and having a second portion formed as a wall to define a second bore of reduced cross-section, said bores being coaxial and contiguous and defining a continuous bore adapted to receive a cartridge enclosed protector for electric circuits, said second portion having a cross-section smaller than the cross section of the first said portion whereby said first portion extends radially outwardly beyond said second portion to define a shoulder, said second portion being insertable through an opening in a panel and said shoulder being registerable with the portions of said panel that define said opening in said panel, said second portion having a wall at the end thereof which is spaced from the first said portion, said end wall having an opening therethrough of smaller cross section than the cross-section of said second bore, a contact in said continuous bore adjacent said end wall in register with said opening in said end wall to receive one end of said cartridge enclosed protector for electric circuits, a second contact disposed within said continuous bore intermediate the ends thereof and spaced from the first said contact, said second contact having arms that extend circumferentially of said continuous bore and terminate short of each other to define a gap, a notch in said second contact, a recess in said first part that is contiguous with said continuous bore, a portion of said second contact extending into said recess and being electrically connected to a conductor that extends co-axially with said continuous bore, the other of said parts carrying a third contact, said third contact receiving the other end of said cartridge enclosed protector for electric circuits and having circumferentially spaced projections thereon that selectively extend inwardly of and underlie and engage said arms and thereby limit movement of said third contact outwardly of said continuous bore and electrically connect said second and third contacts, one of said projections on said third contact being registerable with and passing through said gap and another of said projections on said third contact being registerable with and passing through said notch.

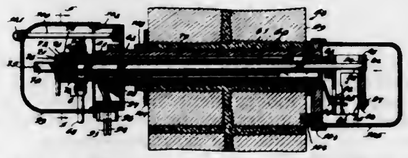
2,668,216

CONTROL MEANS FOR HEATING SYSTEMS

Edwin B. Tidd, Mount Prospect, Ill., assignor to Bell & Gossett Company, Morton Grove, Ill., a corporation of Illinois

Application August 8, 1950, Serial No. 178,272

18 Claims. (Cl. 200—137)



1. Control means for a heating system for maintaining the temperature of the space to be heated in relation to varying outdoor weather conditions comprising a heat conducting tube having one end subjected to outdoor weather, means for simultaneously supplying heat from the heating medium to limited area portions of the opposite end and an intermediate part of the tube, means for varying the amount of heat supplied to the intermediate tube part to thereby vary the total amount of heat supplied to the tube, and means responsive to length changes in the tube effected by the heat supplied thereto and weather conditioning thereof for determining the supply of heat to the space.

2,668,217

LIQUID SWITCH

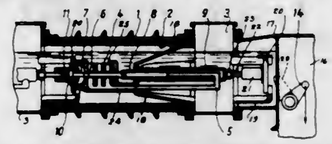
Ernst Vogelsanger and Lorenzo Ubezio, Zurich, Switzerland, assignors to Ateliers de Construction Oerlikon, Zurich-Oerlikon, Switzerland, a corporation of Switzerland

Application January 11, 1952, Serial No. 266,022

Claims priority, application Switzerland August 28, 1951

2 Claims. (Cl. 200—150)

1. A liquid switch comprising the combination of an elongated switch contact member having opposite portions consisting of a contact rod and a hollow piston, respectively; a device having an arc quenching chamber provided with a longitudinal passage for said rod and a series of cross passages for directing an arc quenching liquid blast; an elongated cylinder constituting a guide for said hollow piston; a U-shaped conduit having one end alined with said hollow piston and projecting therein when the latter is moved inwardly of said cylinder; said arc quenching chamber device having a quenching liquid inlet passage in communication with the other end of said conduit; such parts forming a liquid pump which, when the elongated switch contact member is actuated to open the switch, forces an arc quenching liquid blast through said cross passages; a countercontact for said switch, a piston connected to said countercontact, a cylinder for said last-named piston; and



a spring in said last-named cylinder urging said countercontact piston and countercontact toward said movable contact, whereby during the switch opening movement, the separation of said contacts is delayed by said countercontact spring which urges said countercontact piston and the countercontact to follow the movable contact to a certain extent until the arc extinguishing blast of the arc quenching pump is effective to extinguish the arc resulting from such separation, and during the switch closing operation the motion of the movable contact is damped by said countercontact piston; a liquid container for said parts provided with means supporting said cylinders and said arc quenching chamber device in fixed relative relationship in the container; and an arc quenching liquid in which such parts are immersed in said container.

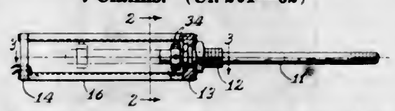
2,668,218

TRANSLATORY POTENTIOMETER

Raymond W. Searle, Weston, Mass., assignor to Technology Instrument Corporation, Acton, Mass.

Application March 9, 1953, Serial No. 340,946

7 Claims. (Cl. 201—62)



1. A translatory potentiometer casing for supporting therein an elongated resistor strip comprising two square end plates, one of said plates having a bearing member for a reciprocable rod carrying a contact for engaging said resistor strip, four similar side plates having tongue and groove means interconnecting adjacent side and edge portions of said plates, and fastening means passing through the corner portions of said end plates into the ends of each of said side plates.

2,668,219

ARTICLE FEEDING APPARATUS

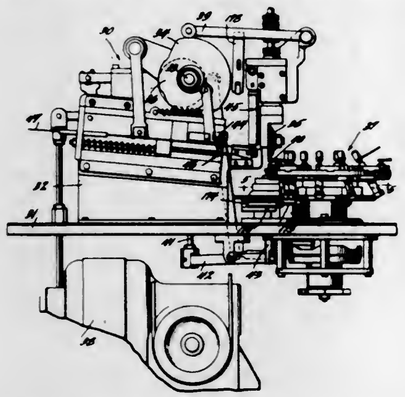
Rolf A. F. Sandberg, Queens Village, and Frank G. Wikstrom, Valley Stream, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application January 19, 1949, Serial No. 71,682

16 Claims. (Cl. 219—4)

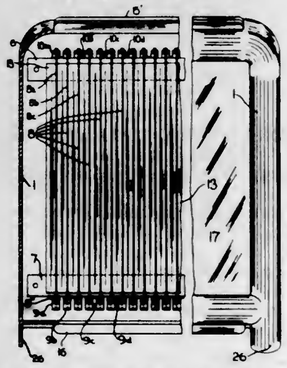
1. In an article feeding apparatus, a turntable having a plurality of article holders mounted

thereon, means for rotatably indexing the turntable to a predetermined point, a clutch interposed between the indexing means and the turn-



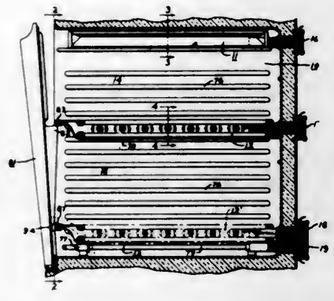
table, and means controlled by the indexing means to disconnect the clutch at said point and to reciprocate the turntable radially with respect to said predetermined point.

2,668,220
ELECTRIC HEATING APPLIANCE
Edward Spurr, Orange Grove, Johannesburg, Transvaal, Union of South Africa
Application June 10, 1952, Serial No. 292,619
Claims priority, application Union of South Africa June 12, 1951
3 Claims. (Cl. 219—34)



1. In a radiant-convector type heating device, comprising a rectangular frame having slotted upper and lower horizontal members, spaced horizontal bars of electrically conductive and refractory material which are rigidly mounted across the upper and lower regions of the frame, a corrugated reflector fixed to said bars and spanning the space between said bars with the corrugations substantially vertically disposed, a separate length of resistor wire located in each forwardly directed corrugation valley of the reflector in constant spaced relationship to the substantial semi-circular surfaces of the respective corrugation valleys, a transparent refractory panel mounted across the front opening of the rectangular frame in parallel spaced relationship to the face of the corrugated reflector to permit heat radiation therethrough and for forming a convection cavity, a plurality of spaced rigid brackets mounted cantilever fashion on the upper bar for attachment of the upper ends of the separate resistor wires, a plurality of spaced resilient fixing brackets mounted cantilever fashion to the lower bar in the coolest zone of the heating device for connection of the bottom ends of said wires and taut retention of the wires in the aforesaid constant spaced relationship relative to the reflector corrugation valleys during expansion and contraction of said wires, the arrangement being such that the alternate pairs of rigid wire brackets are electrically connected, while the resilient mounting brackets are similarly connected for all the resistor wires to be connected in series.

2,668,221
DOMESTIC APPLIANCE
Francis H. McCormick, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application July 16, 1949, Serial No. 105,105
19 Claims. (Cl. 219—35)

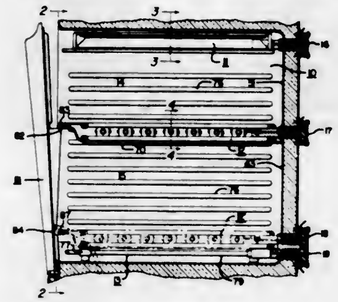


19. In combination, an oven, an independent bottom electric heater at the bottom of said oven, a removable independent intermediate electric heater at an intermediate position within said oven intermediate the bottom and top of said oven dividing the oven into upper and lower subcompartments, a receptacle at the rear of the oven immediately adjacent the rear of said intermediate heater for conducting electric energy to said intermediate heater, a second receptacle at the rear of the oven capable of making an electrical connection with the intermediate heater when the intermediate heater is transferred to a second position in the oven, switch means provided in connection with one of said receptacles for preventing the energization of said lower heater, said intermediate heater being provided with means for operating said switch means when transferred from one position to another.

2,668,222
DOMESTIC APPLIANCE
Francis H. McCormick, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application March 3, 1951, Serial No. 213,721
14 Claims. (Cl. 219—35)

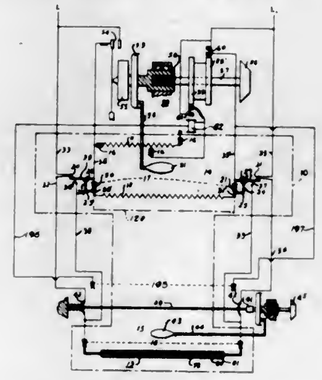
1. In combination: an oven; upper, intermediate and lower heaters for said oven having two food heating spaces therebetween; and a door having a closed position, a slightly ajar position and a fully open position and extending as a rigid continuous impervious unit over the entire front of both spaces for substantially closing both of said spaces when in closed position, and having means for substantially closing one of said

spaces while maintaining slightly open the other of said spaces in the slightly ajar position, and



for maintaining open both of said spaces in said fully open position.

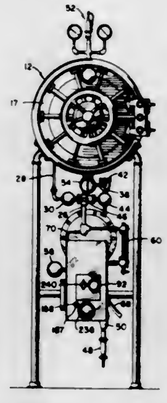
2,668,223
DOMESTIC APPLIANCE
Francis H. McCormick, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application March 30, 1951, Serial No. 218,413
23 Claims. (Cl. 219—35)



1. In combination: an oven; an upper heater in the upper part of said oven; a lower heater in the lower part of said oven; an intermediate removable heater in said oven in a relatively central position to form two food heating spaces between said intermediate heater and said upper and lower heaters; a first thermostat controlling said upper and intermediate heaters, a second thermostat controlling said lower heater; and means causing one of said thermostats only to control said upper and lower heaters and rendered operable by the removal of said intermediate heater.

2,668,224
SWITCH MECHANISM FOR PRESSURE-TYPE ELECTRICALLY HEATED STERILIZER
Joseph W. Spradling and Pearl L. Engler, Madison, Wis., assignors to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application February 12, 1952, Serial No. 271,198
6 Claims. (Cl. 219—38)

1. An electrically heated sterilizer comprising a frame mounted pressure vessel having a chamber, a water supply inlet, means including an electric heating coil in said chamber and an electric circuit therefor for generating steam and maintaining steam pressure therein, and a unitary control switch mechanism housed in a switch box supported by said frame, said switch mechanism comprising switch elements operable between "on" and "off" positions to complete or break, respectively, said circuit to said electric heating coils, said switch elements being biased toward "on" position to complete said circuit, manually adjustable means movable to "inoperative" and "operative" settings, said manual means being biased toward "inoperative" setting and adapted in said "inoperative" setting to dis-

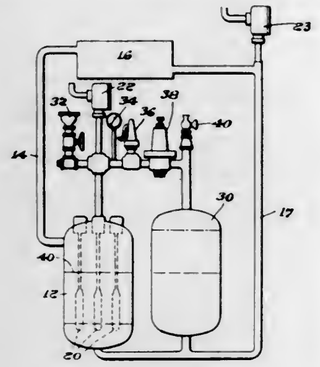


pose said switch elements in "off" position, temperature responsive detent means including a portion extending from said housing and disposed in the vicinity of said heating coils, said detent means being normally operable to retain said manual means in "operative" setting and responsive to a predetermined temperature of said heating coils to release said manual means, pressure responsive means, means connecting said chamber with said pressure responsive means, and linkage members operatively connecting said pressure responsive means with said switch elements to produce movement of said elements completing or breaking said heating coil circuit to maintain a desired chamber pressure when said manual means is in "operative" setting.

2,668,225
VAPORIZABLE LIQUID ELECTRODE BOILER
Stanley Livingstone, Chattanooga, Tenn., assignor to Livingstone Engineering Company, Worcester, Mass., a corporation of Massachusetts
Application March 20, 1951, Serial No. 216,525
8 Claims. (Cl. 219—40)

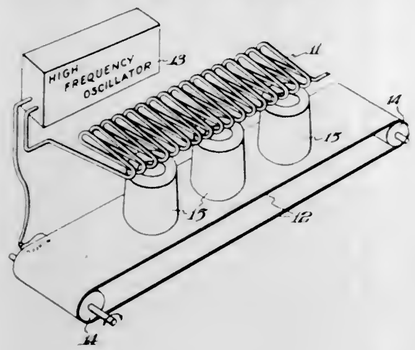
1. An electric boiler having a tank adapted to contain liquid to be boiled, electrodes in said tank, a liquid in said tank contacting said electrodes, said liquid comprising a mixture of a glycol and an electrolyte, said glycol being adapted to be vaporized by the passage of electric current through said liquid between said electrodes, and means for regulating the current input to said electrodes to boil said liquid and create vapor in said system at a pressure corre-

sponding to a temperature at least as great as the boiling point of said glycol mixture and for



reducing said current input when said pressure has reached a predetermined maximum.

2,668,226
HIGH-FREQUENCY ELECTRONIC DRYING APPARATUS
John G. Bernard, Martinsville, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application June 22, 1950, Serial No. 169,577
1 Claim. (Cl. 219—47)



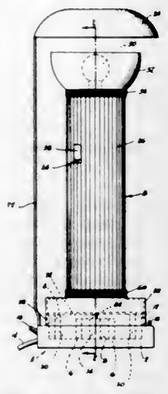
In an electronic drier for drying moist dielectric material including conveying means for continuously advancing material to be dried through the drier and a pair of elongated metallic electrodes connected to a single source of high frequency electrical oscillations and arranged on opposite sides along the path of travel of the material through the drier to create a high frequency electrical field between the electrodes for drying the material, the improvement which comprises arranging one of said electrodes in the shape of a flattened helix having multiple turns spaced more closely in one part of the helix than in another part and forming a rectangularly shaped, generally zig-zag pattern parallel to said path of travel of the material adapted to provide a relatively rapid increase of field voltage at a controlled rate between said electrodes as a continuous function of the distance of travel of the material to compensate for decreasing loss factor of the material as the material dries.

2,668,227
DEVICE FOR TREATING WORKPIECES OF A CURVED OR ANGULAR SHAPE BY INDUCTIVE HEATING IN A MAGNETIC HIGH-FREQUENCY FIELD
Dirk Christiaan van Iperen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 17, 1952, Serial No. 282,754
Claims priority, application Netherlands May 22, 1951
3 Claims. (Cl. 219—47)



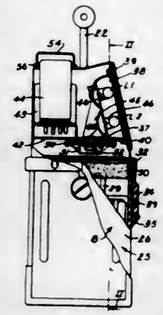
1. A device for surrounding and treating a workpiece of a curved or angular shape by inductive heating in a magnetic high-frequency field comprising at least two members each having two semi-cylindrical grooved portions for receiving said workpiece and a plurality of slots in said grooved portions, the axes of said grooved portions intersecting each other, and current path means formed by said slots thereby permitting said current to traverse said workpiece, the direction of said current path making an angle of at least 60° with the axes of said grooved portions.

2,668,228
LAMP STRUCTURE
Benjamin L. Levinson, New York, and Jack Korshin, Cedarhurst, N. Y., assignors to Levinson Manufacturing Co., Incorporated, Pawcatuck, Conn., a corporation of Connecticut
Application August 26, 1949, Serial No. 112,534
4 Claims. (Cl. 240—1)



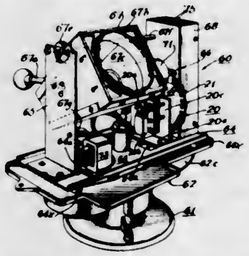
1. A lamp comprising a base having a recess therein, an annular transformer primary coil in said recess but only partially filling the same, a body including a bulb, means for separably securing said body to said base, an annular transformer secondary coil depending from said body and positionable in said recess, the internal diameter of one of said coils being greater than the external diameter of the other of said coils and said coils being positioned substantially concentrically in inductive relation when said body is secured to said base, and an electrical connection in said body between said secondary coil and said bulb.

2,668,229
PORTABLE FLUORESCENT LAMP
Harold Akroyd, Denton, near Manchester, England, assignor to Oldham and Son Limited, Denton, near Manchester, England, a British company
Application November 23, 1948, Serial No. 61,560
5 Claims. (Cl. 240—10.6)



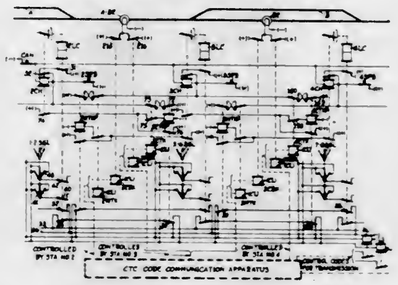
1. A self-contained transportable electric lamp unit comprising a casing including a body portion and a cover portion having a window therein, means sealing said casing to render it flameproof, a re-chargeable battery in said body portion, vent means from said battery and opening through said body portion to atmosphere, a shelf in said cover portion, lamp supports on said shelf and having contacts for supporting a lamp behind said window, vibrator means on said shelf, a circuit connecting said vibrator means between said battery and said lamp support contacts, and switch means on said casing and interposed in said circuit for actuating a lamp in said supports.

2,668,230
MODULATED LIGHT PROJECTOR WITH SCRAMBLING DRIVE
Donald E. Hooker, Skokie, and Frank G. Nicolaus, Chicago, Ill., assignors to Raymond T. Moloney, Chicago, Ill.
Application May 28, 1948, Serial No. 29,876
12 Claims. (Cl. 240—48)



1. A light projector comprising a base and means mounting the same for rotative movement about a vertical axis, and having an upright lamp housing near one side of said base, an upright trunnion plate near an opposite side of said base, a chamber having on one side thereof pivotal support on said plate and having attached to an opposite side thereof a tubular arm pivotally supported on said housing for pivotal motion about a horizontal axis through said arm, there being a light passage in the housing aligned with said horizontal axis through the tubular arm, a reflector in said chamber directing light at substantially right angles to said horizontal axis out of the chamber, said tubular arm rotating with said chamber relative to said horizontal axis.

2,668,231
CODED TRACK CIRCUIT SIGNALING SYSTEM
Thomas J. Judge, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application November 20, 1948, Serial No. 61,215
10 Claims. (Cl. 246—3)

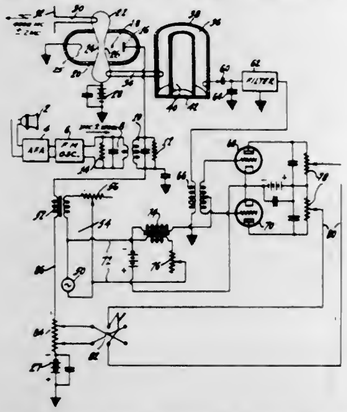


1. In a centralized traffic control system for railroads having a code communication system for communicating signal controls from a control office to each of a plurality of field stations of which the adjoining stations are connected by coded track circuits, track circuit code control means at a given one of said field stations comprising in combination, a signal control stick relay for a given signal having a pick-up circuit governed from the control office and having a stick circuit interrupted upon passage of a train, a traffic direction relay controlled from the control office, electro-responsive means effective when said traffic direction relay is dropped away and said signal control relay is picked up to apply steady energy to the track rails for initiation of track circuit code transmission at the next station in advance of said signal, said electro-responsive means being effective to remove said steady energy from the track rails in response to the picking up of said traffic direction relay upon reception of a particular control from the control office, said electro-responsive means being effective when said traffic direction relay is picked up and said stick relay is dropped away to apply steady energy to the track rails if there is no train between said signal and the next station in advance for shutting down the transmission of track circuit code from said station in advance in the direction of said signal, and said electro-responsive means being effective to remove steady energy from the track rails in advance of said signal upon reception of a control from the control office effecting the dropping way of said traffic direction relay when said signal control relay is dropped away.

2,668,232
FREQUENCY CONTROLLING SYSTEM
Harry Tunick, Rye, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 15, 1945, Serial No. 593,958
3 Claims. (Cl. 250—17)

2. A frequency controlling system comprising, in combination, a microwave oscillator having a reflector electrode, the frequency of the generated oscillations being variable in accordance

with the potential impressed on said electrode, a resonant cavity tuned to a predetermined desired ultra-high frequency of operation of said oscillator, means for supplying oscillations from said oscillator through said cavity, a source of relatively low frequency control voltage waves, means for impressing said control waves on said electrode, thereby to frequency-modulate said oscillations, the amplitude of said control waves being sufficient to vary the frequency of said oscillations over a range extending on either side of said desired frequency, means to detect resultant



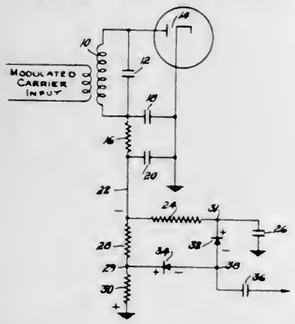
amplitude modulation waves in the envelope of said oscillations after transmission through said cavity, means to combine said control waves and said modulation waves and to derive a unidirectional potential therefrom, said potential having polarity and magnitude dependent upon deviations in the mean frequency of said oscillations from said predetermined frequency, and means additionally to impress said potential on said electrode in a sense tending to maintain the mean frequency of said oscillations at said predetermined frequency.

2,668,233

AUTOMATIC NOISE LIMITER

Robert C. Moses, Swampscott, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts

Application July 19, 1948, Serial No. 39,572
3 Claims. (Cl. 250—20)



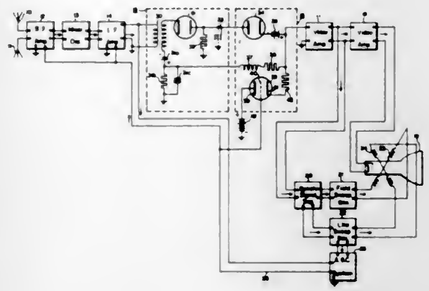
1. A noise-suppression circuit in a signal translator comprising a pair of input terminals, means providing across said terminals the signal to be transmitted and in addition any unwanted noise that may be present therein, a pair of series-connected resistors between said terminals, an additional resistor and a condenser connected in series to said terminals and having a time constant long in relation to the longest period of any desired signal component, a voltage divider comprising a pair of oppositely polarized series-connected diodes of the point-contact crystal type connected between the junction of said pair of resistors and the junction of said additional resistor to said condenser, and signal output coupling means to the junction of said diodes and the input terminal to which said condenser is connected.

2,668,234

NOISE-SUPPRESSION SYSTEM FOR TELEVISION RECEIVERS

Walter S. Druz, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois

Application June 7, 1950, Serial No. 166,712
4 Claims. (Cl. 250—20)



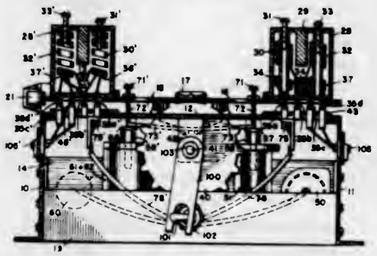
1. In a wave-signal receiver for utilizing a negatively-modulated television signal which includes video components and recurring components representing a fixed shade value of black or blacker than black and which may be accompanied by spurious signals having an amplitude exceeding that of said recurring components, a noise-suppression system comprising: a video-signal translating channel including a detector for deriving the modulation components of said television signal; an amplitude clipper included in said channel and conductively coupled in series relation with said detector for translating signal components within an amplitude range from zero to an upper limit which exceeds the amplitude level of said recurring components for a received television signal of a given threshold intensity; regulating means in said clipper responsive to an applied potential for increasing the upper limit of said amplitude range towards a preselected reference level and in accordance with the magnitude of the potential applied thereto; a gain control circuit responsive only to a received signal having an intensity greater than said threshold intensity for deriving a control potential having a magnitude determined by the intensity of said received signal; means for utilizing said control potential to tend to maintain the signal intensity to said detector within a narrow range for a wide range of received signal intensities; and means for applying said control potential to said regulating means to establish the upper limit of said amplitude range at said reference level during operating intervals in which the signal intensity to said detector is maintained within a narrow range.

2,668,235

TUNING SYSTEM FOR WAVE-SIGNAL RECEIVERS

Roger M. Nordby, Evanston, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois

Application October 25, 1951, Serial No. 253,146
7 Claims. (Cl. 250—20)



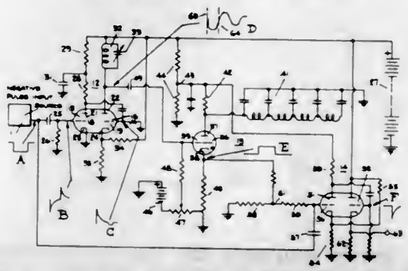
1. A tuning system for a wave-signal receiver for selectively utilizing any of a group of wave signals included within a given band of frequencies comprising: a movable carriage; a plurality of radio-frequency selectors, individually selective to a different one of said wave signals, mounted on said carriage to be moved sequentially into an operating position; a driving system coupled to said carriage for effecting movement thereof; a stationary connector located at said operating position for establishing circuit connections with the one of said selectors moved into said position; a heterodyning oscillator tunable over an operating frequency range corresponding to said band of frequencies and including a physically displaceable tuning element; an individual and adjustable actuator for said element associated with each of said selectors and movable into actuating engagement with said tuning element as its associated selector is moved into said operating position; and a frequency converter in circuit engagement with said oscillator, said connector, and the selector in said operating position for developing an intermediate-frequency signal corresponding to the wave signal selected by the operative one of said selectors.

2,668,236

ELECTRICAL PULSE-WIDTH DISCRIMINATOR

Claudius T. McCoy, Narberth, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application September 23, 1944, Serial No. 555,504
10 Claims. (Cl. 250—27)



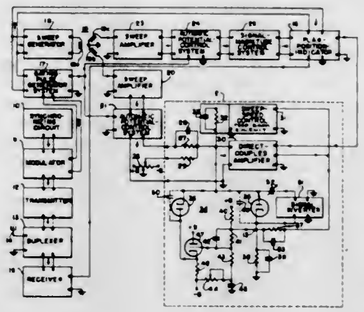
1. An electrical pulse-width discriminator comprising, in combination, a source of input pulses, a first time-delay means responsive to a pulse from said source for establishing a control pulse whose leading edge is delayed a predetermined time after the leading edge of the initiating pulse, a second time-delay means for fixing the time-duration of said control pulse, means responsive to said initiating pulse for producing a narrow pulse timed with the trailing edge of said initiating pulse, and a pulse transfer network jointly responsive to said control pulse and to said narrow pulse for transferring said narrow pulse only when said narrow pulse occurs within the time interval occupied by said control pulse.

2,668,237

SIGNAL MAGNITUDE CONTROL SYSTEM

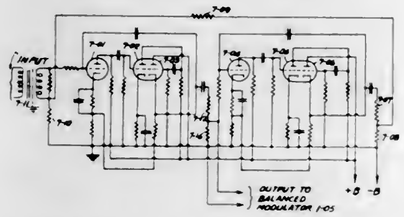
Jasper J. Okrent, Flushing, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application September 13, 1951, Serial No. 246,458
9 Claims. (Cl. 250—27)



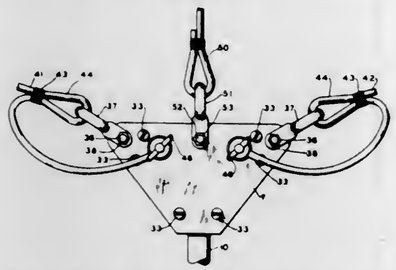
1. A signal magnitude control system comprising: a circuit for supplying the algebraic sum of a periodic input signal and a unidirectional input signal; a signal repeater having an output circuit and coupled to said supply circuit for deriving from said algebraic sum of said input signals an output signal of variable magnitude; a degenerative first feed-back circuit coupled between said output and supply circuits for applying to said supply circuit a first fraction of said output signal effective to control the magnitude of said output signal over the entire magnitude range thereof; a degenerative second feed-back circuit, including a pair of diodes coupled between said output and supply circuits with opposite polarities and in a parallel relation with said first feed-back circuit; and bias-circuit means coupled to said diodes for maintaining the same nonconductive over an intermediate portion of said magnitude range to impart to said second feed-back circuit a high impedance over said intermediate portion of said range; said diodes being responsive to said output signal for conducting over two extreme portions of said range to impart to said second feed-back circuit a low impedance over said extreme portions of said magnitude range; said second feed-back circuit being effective to apply to said supply circuit a variable second fraction of said output signal appreciably greater than said first fraction thereof over said extreme portions of said range but appreciably smaller than said first fraction over said intermediate portion of said range and which exerts a dominant control of the magnitude of said output signal over said extreme portions of said magnitude range to limit the magnitude of said output signal to two predetermined levels.

2,668,238
WIDE-BAND PHASE SHIFTING MEANS
Frederick W. Frink, East Orange, N. J.
Application August 20, 1946, Serial No. 691,852
33 Claims. (Cl. 250—27)



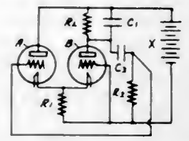
29. A network of the class described, comprising; input and output connections for said network and a transmission path extending therebetween; a first phase shifting means included in said transmission path, said phase shifting means producing a substantially constant predetermined angle of phase shift throughout a range of frequencies, and incidentally changing the relative magnitudes of the different frequency components of a complex wave at different frequencies within said range, thereby producing distortion; a feed back path extending from a first point on said transmission path where said phase shift and distortion are present to a second point on said transmission path between said network input connection and said first point; and compensating means included in said feed back path and comprising a second phase shifting means for producing a total angle of phase shift of substantially 180 degrees throughout said range of frequencies in a loop including said feed back path and that portion of said transmission path extending between said first and second points, the circuit parameters of said compensating means being dimensioned to have transmission characteristics producing distortion similar to and at least partially compensating for that produced by said first phase shifting means.

2,668,239
COAXIAL CABLE ANTENNA CONNECTOR
John Jipp, Houston, Tex., assignor to the United States of America as represented by the Secretary of the Army
Application August 21, 1950, Serial No. 180,687
1 Claim. (Cl. 250—33)
(Granted under Title 35, U. S. Code (1952), sec. 266)



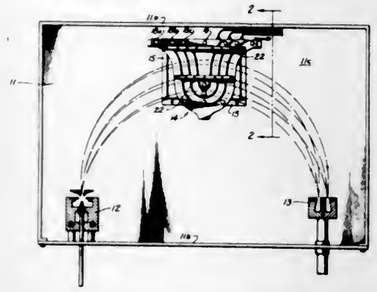
A connector for coupling a center fed antenna, having inner and outer ends, to a coaxial cable having inner and outer conductors, comprising in combination, a body consisting of two substantially triangular plates of dielectric material secured in face-to-face abutment and being interiorly recessed and roughened to receive and grip said coaxial cable through one corner of said body, terminal means comprising two bars electrically connected respectively to said inner and outer conductors of said coaxial cable, each of said bars having a transversely disposed electrically conducting bolt therethrough and in electrical contact therewith, two clevises swingably secured respectively to the other two corners of said body, the inner end portions of said antenna extending through said clevises respectively and being provided with tie means to form a closed loop through each clevis, and extending respectively to each of said bolts with sufficient slack to prevent mechanical strain upon the junction of inner end portions of the antenna and the bolts.

2,668,240
NONINVERTING OSCILLATOR
George A. Brettell, Jr., Newark, N. J.
Application November 24, 1943, Serial No. 511,626
1 Claim. (Cl. 250—36)



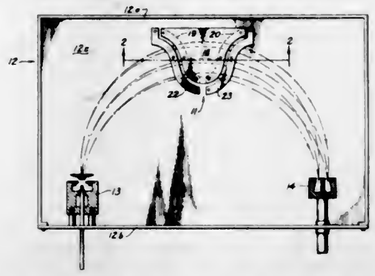
A sine wave generator including a non-inverting amplifier comprising, means for combining a cathode loaded amplifier section with a cathode driven amplifier section to form a non-inverting amplifier, means forming a resistance-capacity coupled feedback branch from the plate of the second section to the grid of the first section, and means in the plate circuit of the second section to cause the phase shift of the voltage on the plate of said second section with relation to the voltage on the grid of the first section at the specified frequency to be zero, said last-named means comprising a paralleled capacitance and load resistance in series with the plate of said second section to compensate for the phase shift introduced by said resistance-capacity feedback branch.

2,668,241
BEAM FOCUSING LENS
Herbert W. B. Skinner, Harwell, England
Application November 25, 1947, Serial No. 787,877
4 Claims. (Cl. 250—41.9)



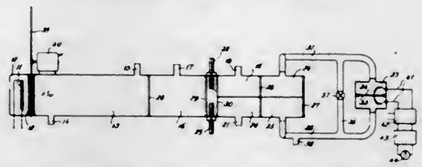
1. In an apparatus for the electromagnetic separation of ions or isotopes including a tank, means for establishing a magnetic field through said tank, an ion source, a divergent arcuate ion beam the arcuate plane of which lies transverse to said magnetic field, and an ion receiver; an arrangement of curved nested electrodes disposed in planar decks transverse to said magnetic field, potential supply means impressing a different potential upon each of the electrodes in a deck, and electrical interdeck connections joining like electrodes thereby defining an electrostatic lens imparting a series of angular deflections to said ions in their traverse through the medium of said lens whereby ions having equal mass to charge ratios are directed to an initial focus in the region of said receiver.

2,668,242
CALUTRON ELECTRIC LENS
Herbert W. B. Skinner, Harwell, England
Application November 25, 1947, Serial No. 787,878
4 Claims. (Cl. 250—41.9)



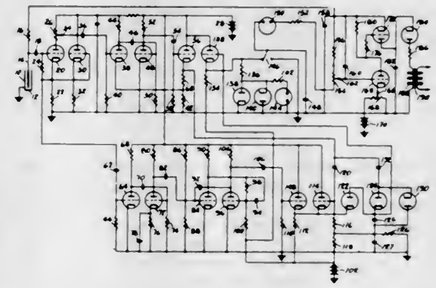
1. In an apparatus used for the electromagnetic separation of ions or isotopes including a tank, a magnetic field through said tank, an ion source, a divergent arcuate ion beam the plane of which lies transverse to said magnetic field, and an ion receiver; a first group of curvilinear strip electrodes planarly nested and arranged in parallel spaced planar decks with their planar surfaces normal to said magnetic field, a second group of curvilinear strip electrodes planarly nested and arranged in parallel spaced planar decks with their planar surfaces normal to said magnetic field, the outermost edges of said first group and said second group lying symmmetrically within a shield shaped magnetic projection, said second group being offset along said magnetic field with respect to said first group with the outer electrodes thereof being substantially coplanar with the outer electrodes of said first group and potential supply means impressing a different potential upon each of said groups of electrodes, thereby defining equipotential electric lens surfaces.

2,668,243
INFRARED GAS ANALYZER
Van Zandt Williams, Old Greenwich, Conn., assignor to The Perkin-Elmer Corporation, Glenbrook, Conn., a corporation of New York
Application November 26, 1949, Serial No. 129,603
9 Claims. (Cl. 250—43.5)



1. An apparatus for determining the amount of a gas of interest present in a mixture containing at least one component having a spectral range of absorption of radiation in common with that of the gas of interest, which comprises a source of radiation, a pair of detector chambers in the path of radiation from the source and containing equal amounts of a mixture comprising partial pressures of the gas of interest and of the interfering component, a cell containing a sample of the mixture to be examined and in the path of radiation from the source to both detector chambers, a compensator cell and a sensitizer cell in the path of radiation from the source to respective detector chambers, the sensitizer cell containing the gas of interest and the compensator cell containing an inert gas, means for passing such a quantity of radiation from the source to the detector chamber beyond the compensator cell that components other than the gas of interest in the mixture in the sample cell produce equal temperature effects in the contents of the detector chambers, and measuring means responsive to the differences in temperature rise of the gases in the two detector chambers.

2,668,244
VOLTAGE REGULATOR
John R. Niles, Detroit, Mich.
Application May 5, 1950, Serial No. 160,279
10 Claims. (Cl. 250—83.6)

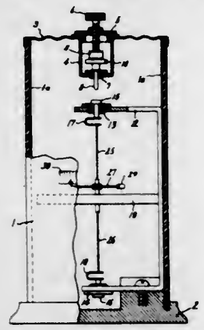


1. In combination, a Geiger tube operative to produce output pulses having amplitudes dependent upon the voltage on the tube, means for applying a variable voltage on the Geiger tube, a first tube, a second tube, a condenser, means associated with the condenser and the first and second tubes to produce across the condenser a voltage substantially proportional to the amplitude of the Geiger tube pulses, and means for varying the voltage on the Geiger tube in accordance with changes in the condenser voltage.

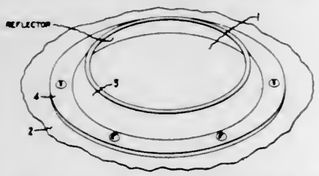
2,668,245
RADIATION MONITOR
Theodore A. Rich, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 31, 1950, Serial No. 193,227
7 Claims. (Cl. 250—83.6)

1. An instrument for indicating and measuring ionizing radiations including in combination an ionization chamber, an electrostatic measuring device supported within said ionization chamber, a normally inert electro-mechanical charging apparatus mounted on the housing of said ionization chamber, and selectively operable

switching means for selectively coupling the output of said electro-mechanical charging apparatus to said electrostatic measuring device to charge the same to a desired electric potential.



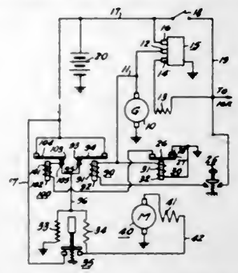
2,668,246
PHOTOCELL ANGLE RESPONSE COMPENSATOR
Wesley S. Burt, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application November 24, 1950, Serial No. 197,354
1 Claim. (Cl. 250—237)



In combination with a circular light cell, a compensator therefor comprising a hood shaped as the surface of a right circular cone with open top and bottom parallel to each other and with the bottom opening approximately equal to the area of the cell and secured over and coaxial with the light sensitive surface of said cell, the hood being opaque with a good reflecting internal surface, the base angle of said cone being approximately 60 degrees and the ratio of height to base diameter of said hood being approximately 1/9.

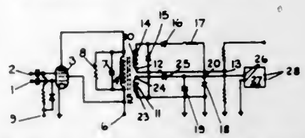
2,668,247
ENGINE STARTER CONTROL SYSTEM
Brooks H. Short, Anderson, and John W. Dyer, Pendleton, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application October 30, 1946, Serial No. 706,618. Divided and this application June 5, 1951, Serial No. 229,963
2 Claims. (Cl. 290—36)

1. An engine starter control system comprising a generator having a field winding, a storage battery charged by the generator, an engine starter including an electric motor operated by battery current, a normally open switch for connecting the battery with the motor, an electromagnet for closing said switch, a switch for connecting the generator field winding with the battery in order that the generator will be initially separately excited, a cutout relay for connecting the generator with the battery when generator voltage attains a certain value whereby the generator becomes self-exciting at cut-in speed, said relay disconnecting the generator from the battery when the generator voltage falls below battery voltage in consequence of which the generator returns to separately excited status, and means for controlling the connection between the battery and said electromagnet and including two relay switches having switch-closing electromagnets and having their contacts connected in parallel, the closing of either of these relay switches causing energization of the first mentioned electromagnet, one of the relays being a "low" (voltage differential) relay which closes contact on no-load battery voltage and opens contact when the battery is supplying current to the starting motor, the other of said relays being a "hold-in" relay whose electromagnet is initially energized by closing of the



contacts of the "low" relay, energization of the electromagnet of the "hold-in" relay being maintained by the closing of the "hold-in" relay, a "high" (voltage differential) relay having normally closed contacts which control the circuit of the electromagnet of the "hold-in" relay, said "high" relay having an electromagnet sensitive to the voltage of the generator when separately excited, said "high" relay being so constructed as to remain closed at a generator speed corresponding to maximum cranking speed and to open above maximum cranking speed and below cut-in speed and to reclose at a speed substantially below engine minimum idling speed, and including a normally open, manually closed switch for connecting the battery with the electromagnet of the "low" relay.

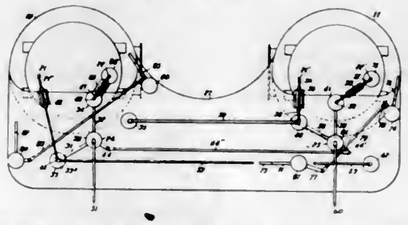
2,668,248
PULSE WIDENING APPARATUS
Peter William Ward, Wembley, and Donald Francis Bowman, Hendon, London, England, assignors to The General Electric Company Limited, London, England, a British company
Application December 11, 1952, Serial No. 325,468
Claims priority, application Great Britain October 30, 1952
8 Claims. (Cl. 307—107)



8. Equipment for demodulating a train of amplitude modulated electric pulses having a duration short compared with the intervals between them including a pulse transformer having a primary winding and two secondary windings, an input circuit including means responsive to an input train of unidirectional amplitude modulated pulses for passing a train of correspondingly modulated current pulses of substantially uniform duration through the primary winding of

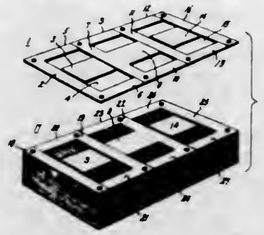
the transformer, a capacitance and a resistance each connected in parallel with the primary winding, the magnitude of the capacitance and the resistance being such that the natural period of the parallel resonant circuit so formed is approximately equal to twice the duration of the current pulses and the decrement of the circuit is high, a further capacitance, means for maintaining one side of the further capacitance at a fixed potential, a source of two reference potentials differing by at least the maximum output potential, means connected to the first secondary winding for restricting potential variations on the other side of the further capacitance to the range defined by the two reference potentials and responsive to voltage changes across the first secondary winding, occurring in consequence of the leading edge of one of said current pulses passing in the primary winding, for bringing the potential on the said other side of the further capacitance to one of the two reference potentials, means connected to the other secondary winding responsive to voltage changes across it occurring in consequence of the trailing edge of one of said current pulses passing in the primary winding, for bringing the potential on the said other side of the further capacitance towards the other of the two reference potentials by an amount proportional to the amplitude of the pulse, the coupling of the said other secondary winding to the primary winding being such that the voltage changes across it are not greater than the difference between the two reference potentials, a low pass filter having a pair of input terminals and a pair of output terminals and having a pass band extending substantially up to the maximum frequency component of the signal with which said pulse train is modulated, means coupling the input terminals of the filter across the terminals of the further capacitance, and signal output terminals coupled to the output of the filter.

2,668,249
SWITCH AND SYSTEM
Lester L. Nagel, Summit, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application March 4, 1952, Serial No. 274,803
5 Claims. (Cl. 307—112)



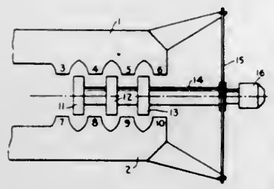
3. A switch construction for selective full-wave and half-wave energization of two loads from two sources of full-wave rectified current comprising first and second input terminals energized by alternate waves of full-wave rectified single-phase alternating current from one source thereof, third and fourth input terminals energized by alternate waves of full-wave rectified single-phase alternating current from a second source thereof, first and second output terminals connectible to separate loads, and switch means including separate movable contact members, separate actuators for said movable contact members and means interconnecting the movable contact members for simultaneously connecting said first and second input terminals to said first output terminal and said third and fourth input terminals to said second output terminal in one position of said contact members, for connecting said first input terminal to one of said output terminals and said second input terminal to the other of said output terminals while leaving said third and fourth input terminals open in a second position of said contact members, and for connecting said third input terminal to one of said output terminals and said fourth input terminal to the other of said output terminals while leaving said first and second input terminals open in a third position of said contact members.

2,668,250
COMBINED LOW REACTANCE AUTOTRANSFORMER AND BALLAST REACTOR
Wayne L. Henderson, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application January 7, 1950, Serial No. 137,458
7 Claims. (Cl. 307—156)



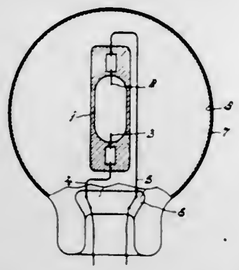
1. A combined low reactance autotransformer and reactor ballast comprising a first laminated layer having a first U-shaped lamination with two legs perpendicular to an integral connecting portion, said two legs of said first U-shaped lamination abutting the main body portion of a first E-shaped lamination, a detached intermediate member centrally located between and parallel to the legs of said first U-shaped member, the legs of said first E-shaped lamination abutting an E-leg abutting lamination, and a second laminated layer comprising an I-shaped lamination in superposed relation to said connecting portion of said first U-shaped member, a second U-shaped lamination having its legs abutting said I-shaped member, the legs of said second U-shaped lamination lying in superposed relation to the legs of said first U-shaped lamination, the connecting portion of said second U-shaped lamination being in superposed relation to said main body portion of said first E-shaped lamination and a second E-shaped lamination having its legs abutting said second U-shaped lamination, the respective leg members of said second E-shaped lamination being in superposed relation to the corresponding leg members of said first E-shaped lamination, the main body portion of said second E-shaped lamination being in superposed relation to said E-leg abutting member, a second detached intermediate member centrally located between and parallel to the legs of said second U-shaped member, said second intermediate member being in superposed relation to said intermediate member of said first layer, a plurality of said first and second layers being alternately stacked to form a magnetic core, a plurality of superposed detached intermediate members collectively serving as a winding leg, a reactor winding positioned on said winding leg, the respective center leg portions of said plurality of E-shaped members collectively serving as a second winding leg, and an autotransformer winding positioned on said second winding leg.

2,668,251
ELECTROMAGNETIC OSCILLATORY MOTOR PROVIDED WITH A CUTTING-ACTION CORE
Enrique List, Buenos Aires, Argentina, assignor to ITEM Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina, an Argentine corporation
Application March 27, 1951, Serial No. 217,695
7 Claims. (Cl. 310—28)



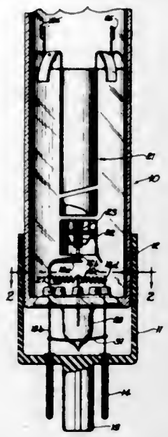
1. An oscillatory electromagnetic motor, fit for driving machine tools of large power requirements, comprising a stator having two pole portions and an armature positioned in the space between said pole portions, each pole portion and the armature having a series of projections with spaces therebetween, the projections of each pole portion having the same polarity, said armature being so proportioned, shaped and dimensioned with respect to its associated parts as to become resonant at line frequency, the static position of the armature being such that the projections thereof confront each respective opposite space centrally between the projections of the pole portions and the sum of the breadth of one projection and one adjacent space being equal to the length of the desired stroke of the armature.

2,668,252
ELECTRIC LAMP
Jan Lourens Ouweltjes, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application November 23, 1951, Serial No. 257,778
Claims priority, application Netherlands January 6, 1951
3 Claims. (Cl. 313—25)



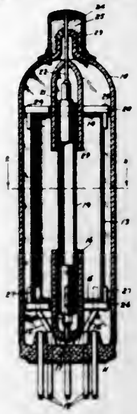
1. An electric lamp comprising a high-pressure mercury vapour discharge tube, a hermetically sealed bulb surrounding said tube and spaced therefrom, a coating on the wall of said bulb of a luminescent substance activated with manganese and containing magnesium, arsenic and oxygen and having a gram molecule ratio between magnesium oxide and arsenic oxide exceeding 3:1, and a filling of carbon dioxide having a pressure of at least 0.2 cm. of mercury in the space between the tube and the bulb.

2,668,253
GETTER FOR ELECTRON DISCHARGE DEVICES
Warren G. Taylor, Chicago, Ill., assignor to American Television, Inc., Chicago, Ill.
Application July 6, 1950, Serial No. 172,325
4 Claims. (Cl. 313—174)



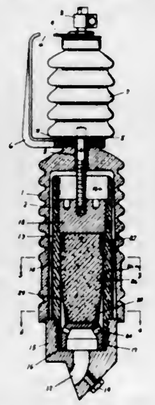
1. A thermionic tube having a containing envelope, a filament having two leads, a Z-type getter supported within said envelope, said getter having two connecting leads, one said lead being permanently connected by means of a jumper wire within said envelope to one lead of said heater, the other lead of said getter being permanently connected by means of a shorting jumper wire exterior to said envelope to the other lead of said filament after the envelope has been sealed off in order that said getter, which was not heated at any time during the manufacturing or processing of the tube, is automatically placed in service when said tube is placed in used.

2,668,254
CORONA DISCHARGE VOLTAGE REGULATOR
Paul W. Stutsman, Needham, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application June 22, 1950, Serial No. 169,550
3 Claims. (Cl. 313—206)



1. An electron-discharge device comprising an envelope containing a cathode having a substantial electron-emitting surface, an anode surrounded by said cathode, said anode extending out beyond the ends of said cathode, dielectric shielding members covering the portions of said anodes which extend beyond the ends of said cathode and a gaseous medium comprising a free electron gas and a gas wherein slow speed collisions of electrons with the molecules of said gas are substantially inelastic.

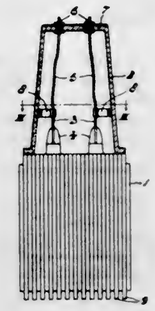
2,668,255
EXPULSION TYPE ARRESTER
Herman O. Stoelting, Milwaukee, and Clifford W. Petersen, Wauwatosa, Wis., assignors to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware
Application October 8, 1951, Serial No. 250,232
4 Claims. (Cl. 313—231)



1. A lightning arrester of the expulsion type including spaced electrodes, a retainer member having a bore, a tapered insulating plug member contained within said bore, at least one end of said plug member and the bore surface of said retainer member conjointly providing a tapered annular expulsion chamber having a constricted transverse cross-sectional delineation at a point intermediate the ends of said retainer member, one of said electrodes providing an electrode surface transversely of said bore and in the immediate proximity of said constricted cross-sectional delineation, the cross-section of said chamber being relatively distended at a portion longitudinally spaced from said point and adjacent the other of said electrodes, at least one defining wall surface of said chamber embodying arc-extinguishing material.

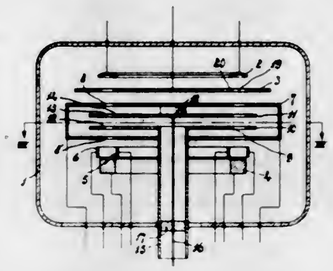
2,668,256
DISCHARGE TUBE COMPRISING A METAL ENVELOPE AND FOR USE AT VERY SHORT WAVE-LENGTHS
Eduard Gerhardus Dorgelo, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 8, 1952, Serial No. 297,681
Claims priority, application Netherlands July 17, 1951
1 Claim. (Cl. 313—318)

An electric discharge adapted to be operated at very short wave-lengths comprising a metal envelope, a plurality of lead-in conductors extending into said envelope, a glass protective hood surrounding said lead-in conductors, supply contacts on the hood, a plurality of flexible conductors each connecting one of the lead-in conductors to one of said contacts, and a leaf-spring



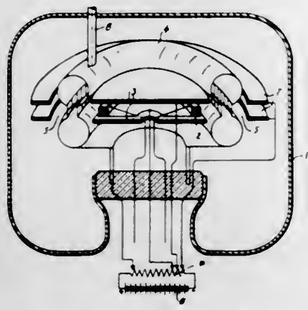
conductor element interposed between each lead-in conductor and the inner surface of said hood and in mechanical contact therewith.

2,668,257
ELECTRIC DISCHARGE TUBE OF THE CAVITY RESONATOR TYPE
Frederik Coeterier, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application August 24, 1950, Serial No. 181,139
Claims priority, application Netherlands September 9, 1949
3 Claims. (Cl. 315—5)



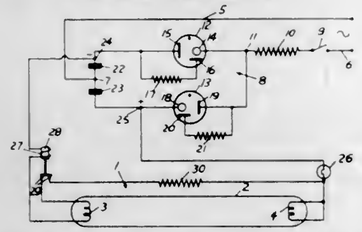
1. An electric discharge tube comprising an annular cathode for the generation of an electron beam, an electrode in said tube and spaced from said cathode, a cavity resonator interposed between said cathode and said electrode, said cavity resonator having apertures therein for the passage of said electron beam, two substantially parallel coupling plates in said cavity resonator arranged with their planes transverse to the path of the said electron beam and each having apertures therein for the passage of said electron beam, and a concentric conductor output system extending out of said cavity resonator, and through said annular cathode at substantially right angles to said parallel plates said concentric conductor system having an inner conductor merged with one of said parallel plates and an outer conductor merged with the other of said parallel plates.

2,668,258
ELECTRON DISCHARGE DEVICE HAVING CAVITY RESONATOR
Leonard Francis Broadway, Ickenham, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain
Application January 11, 1946, Serial No. 640,549
In Great Britain January 14, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires January 14, 1961
4 Claims. (Cl. 315—5)



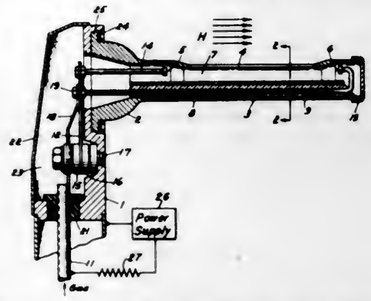
1. An electric circuit arrangement including an electron discharge device of the velocity-modulation type comprising a cavity resonator of annular form and having openings in opposite walls thereof to form a gap with a zone of constant field intensity, a cathode, said resonator and cathode being concentrically arranged with one of them surrounding the other, means for projecting electrons in a number of directions radially through said zone in the gap whereby said electrons are velocity-modulated, and a reflecting electrode disposed beyond said gap from said cathode and maintained at a potential to reflect at least some of said electrons back towards said resonator, said resonator being in the form of a concentric transmission line.

2,668,259
ELECTRICAL CIRCUIT
Paul W. Stutsman, Needham, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application February 16, 1950, Serial No. 144,451
8 Claims. (Cl. 315—97)



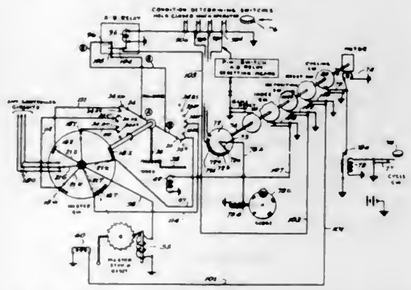
1. A gaseous discharge device starting circuit, comprising a gaseous discharge device having a pair of filaments, a relay having an operating winding and a pair of normally closed contacts, an inductance, a voltage source, means connecting said winding and said inductance in series between one terminal of said voltage source and one of said filaments, means connecting said contacts in series between the other terminal of said source and said one filament, and capacitive means connected between said other terminal and the other of said filaments.

2,668,260
ION SOURCE
Clarence F. Barnett and Carroll B. Mills, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application February 7, 1951, Serial No. 209,766
6 Claims. (Cl. 315—111)



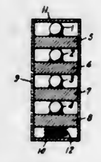
1. An ion source for utilization in a magnetic field comprising a longitudinally apertured anode defining a cylindrical chamber disposed in and parallel to said magnetic field, a pair of cathodes disposed within said chamber, near opposite ends thereof, and characterized by the property of thermally emitting electrons when heated by ion bombardment within the chamber, a source of electrical energy connected between said anode and said cathode, and means for introducing a gas to be ionized into the chamber formed by said anode and cathodes.

2,668,261
FOLLOWER AND HOMING SWITCH CONTROL MEANS
Donald E. Hooker, Skokie, and Frank G. Nicolaus, Chicago, Ill., assignors to Raymond T. Moloney, Chicago, Ill.
Application March 20, 1950, Serial No. 150,612
18 Claims. (Cl. 317—157)



7. A follower switch control unit comprising a rotary-stepping type master switch, a rotary type cycling switch, a rotary type follower switch yieldingly coupled with said master switch to follow the latter when unrestrained, electrically releasable index means normally restraining following movements of said follower switch, a plurality of contactors moved by said follower switch relative to follower control contacts; a plurality of contactors moved by said master switch relative to master contacts, circuit means for initiating and concluding an operating cycle for said cycling switch, circuit and resetting means controlled by said cycling switch for resetting said master switch from an advanced to a starting position; circuit means controlled by said cycling switch and certain master switch contactor and contact means, and a first follower-switch contactor and follower switch contacts, dependently upon a first condition in an ancillary circuit, for moving the master switch from starting to a predetermined advanced position, position-determining means moved by the master switch to determine a homing position for the follower switch when indexed, index releasing means actuated by the cycling switch at a time during each operating cycle thereof, to free said master switch for following movement to said homing position, and circuit connections controlled by a second follower switch contactor and follower switch contacts, and dependent upon a second condition in said ancillary circuit for determining the number of steps to be taken by said master switch in a subsequent operation initiated by said cycling switch, and general control contact means moved by the master switch and adapted for connection with a controlled instrumentality.

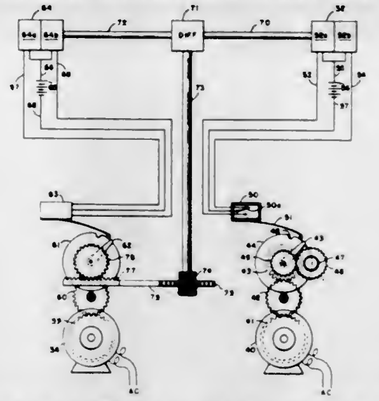
2,668,262
ASYMMETRICALLY CONDUCTIVE DEVICE
William C. Dunlap, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 27, 1950, Serial No. 187,097
3 Claims. (Cl. 317—234)



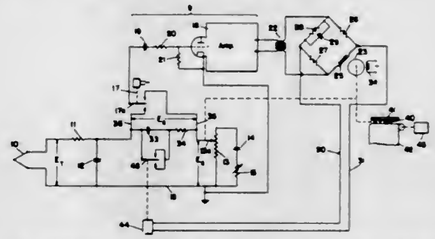
2. An asymmetrically conductive device comprising a tubular insulating container, a plurality of spherical pellets formed of a semiconductor material, a plurality of metallic electrode means each bonded to a relatively large surface area of one of said pellets to form a plurality of unitary structures, said structures being substantially coaxially disposed in said tubular insulating container with the pellets of certain of said structures each in engagement with the electrode means of an adjacent one of said structures, a pair of metallic cover members forming a closure means for each end of said container, and resilient conducting means disposed within said container for maintaining adjacent ones of said structures in engagement and for completing a circuit between said cover members through said structures.

2,668,263
VARIABLE SWITCH OPERATED POSITIONING SYSTEM
Maurice D. Bennett, Glenbrook, Conn., assignor to The Reflectone Corporation, Stamford, Conn., a corporation of Connecticut
Application December 20, 1952, Serial No. 327,141
3 Claims. (Cl. 318—19)

1. A positioning system comprising a pair of variable switching means, each of said switching means equipped with a first and a second revolving cam rotating in the same direction and at the same speed and said second cam by means of a differential being angularly adjustable with respect to said first cam, a switch adapted to alternately open one circuit when a second circuit is closed associated with each of said switching means, the consecutive opening and closing of said circuits actuated by the cyclic rotation of said first and said second cam respectively of the switching means associated therewith, a pair of motors each being adapted for bidirectional rotation and connected to one of said switches respectively, each motor operating cyclically in a bidirectional manner as controlled by the relative angular positions of the pair of cams associated with each switching means, a differential combining the shaft rotations of said bidirectional motors and means for positioning the adjustable cam of one of said switching means in accordance with the resultant output of said differential.



2,668,264
MEASURING SYSTEM OF THE BALANCEABLE NETWORK TYPE
Albert J. Williams, Jr., Philadelphia, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 24, 1952, Serial No. 284,006
12 Claims. (Cl. 318—28)

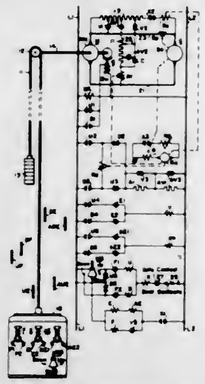


1. A measuring system comprising an electrically balanceable network having a circuit element unbalancing said network with change in the magnitude of a condition under measurement, an adjustable circuit element for restoring balance of said network, a detector responsive to an error-voltage of magnitude related to the unbalance of said network, means operable under the control of said detector for adjusting said adjustable circuit element in a direction to restore balance of said network and at a speed which increases with increasing unbalance of said network, a circuit connected across said detector including an error-current integrator for applying an integrated potential difference to said detector, and circuit-controlling means operable when said speed rises above a predetermined value for removing from said detector said integrated potential difference and for applying said integrated potential difference to said detector when said speed decreases to a predetermined value.

2,668,265
DIRECT-CURRENT MOTOR CONTROL SYSTEM

Phillip C. Keiper, Shrewsbury, and William M. Ostrander, Hackensack, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 6, 1952, Serial No. 319,114
22 Claims. (Cl. 318—143)

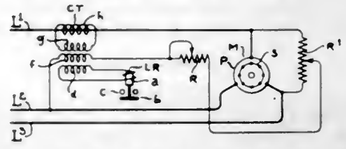


22. In an elevator system, an elevator car, driving means including a direct-current motor having an armature for driving the elevator car, a direct-current main generator for supplying electrical energy to the motor, said generator having a main generator armature and a main generator field winding, a direct-current regulator generator having a regulator generator armature and first, second, third and fourth regulator generator field windings, a loop circuit connecting the main generator armature and the motor armature in series, connections for energizing the main generator field winding in accordance with the output of the regulator generator armature, connections for energizing the first regulator generator field winding substantially in accordance with a predetermined adjustable voltage having a predetermined polarity, means for energizing the second regulator generator field winding substantially in accordance with the armature voltage of the motor with proper polarity to provide excitation acting in opposition to the excitation supplied by the first regulator generator field winding, means for energizing the third regulator generator field winding substantially in accordance with current supplied to the motor armature with proper polarity to produce an excitation aiding the excitation supplied by the first regulator generator field winding proportioned to compensate substantially for voltage drops due to resistance in the motor armature, said fourth regulator generator field winding being connected for energization in accordance with current supplied to the main generator field winding and being so proportioned that the excitation from this fourth generator field winding compensates for the resistance drop in the circuit through which the main generator field winding is energized, means responsive to arrival of the elevator car at a slow-down point in its travel at which the car is to slow down for decreasing the energization of the first and third regulator generator field windings in order to slow down the elevator car as the car approaches a stopping point, and means effective when the elevator car reaches during slow-down a point intermediate the slow-down and stopping points for decreasing the excitation supplied by the first regulator generator field winding and for increasing the excitation supplied by the first and third regulator generator field windings.

2,668,266
LOAD RELAY CIRCUIT FOR INDUCTION MOTORS

Richard B. Hunter, Cuernavaca, Morelos, Mexico, and Eric Pell, Shorewood, and Norbert L. Schmitz, Madison, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Original application August 31, 1944, Serial No. 552,046, now Patent No. 2,620,464, dated December 2, 1952. Divided and this application April 28, 1952, Serial No. 284,735
2 Claims. (Cl. 318—414)

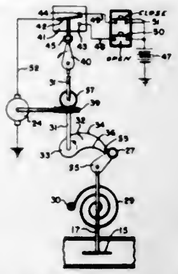


1. In combination, a polyphase motor, a polyphase alternating current supply therefor, a single coil relay, a current transformer deriving from one phase of the motor primary a first current, a rheostat having its resistor connected across two terminals of the motor primary, an adjustable resistor, a transformer having a first winding in circuit with said current transformer for supply of said first current, a second winding connected to a third terminal of the motor primary and to the adjusting element of said rheostat in series with said adjustable resistor to provide a second current, and a third winding connected in circuit with the coil of said relay to subject said coil to the resultant current of said first current bucked by said second current, said second current being adjustable in accordance with the setting of said rheostat and said adjustable resistor to bear a given relation to certain components of the motor primary and thereby render said relay sensitive to the load component of the motor primary with certain of the current components of the motor primary bucked out.

2,668,267
ELECTRIC MOTOR VALVE ACTUATOR SYSTEM

James E. Chapman, Los Angeles, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California

Application February 11, 1949, Serial No. 75,889
5 Claims. (Cl. 318—466)

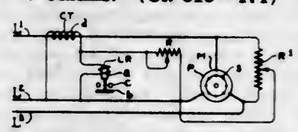


1. An actuator for moving a part back and forth between first and second positions comprising: a rotary member; an electric motor connected to said rotary member so as to drive the same in one direction; a rotary cam on said rotary member, said cam having a high portion and a low portion, said portions being separated by arcs of movement of the cam; an operative connection between said cam and said part comprising a lever connected to said part so as to swing back and forth between two extreme positions as said part moves between said first and second positions, said lever having a follower engaging said cam whereby movement of said cam consecutively through said arcs of movement will effect movement of said part consecutively into said first and second positions thereof; means to form a pair of electrical circuits to individually connect said motor to a source of electrical energy, each of said circuits having a control switch therein; a master switch having movable contact means and operating means to instantaneously move said contact means so as to alternately complete said circuits so that each one of said circuits will be completed when the other of said circuits is incomplete; and a switch operating member moved by said rotary member in synchronization with said cam and actuating said operating means of said master switch in a manner to cause said movable contact means to open one of said circuits when said part moves to said first position and open the other of said circuits when said part moves to said second position.

2,668,268
LOAD RELAY CIRCUIT FOR INDUCTION MOTORS

Richard B. Hunter, Cuernavaca, Morelos, Mexico, and Eric Pell, Shorewood, and Norbert L. Schmitz, Madison, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application April 28, 1952, Serial No. 284,736
2 Claims. (Cl. 318—474)



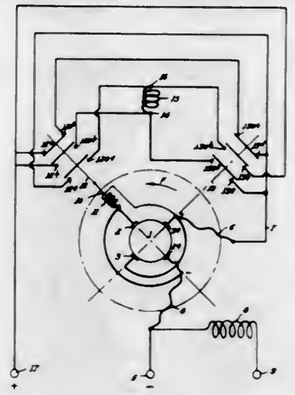
1. In combination, a polyphase motor, a polyphase alternating current supply therefor, a current transformer deriving from one phase of the motor primary a first current, a single coil relay having its coil connected to one side of said one phase of the motor primary and in series circuit with said current transformer, and means in series circuit with said current transformer and said coil of said relay to subject the latter to a second current proportional the voltage across another phase of the motor primary, said means including an adjustable resistor for adjusting said second current to bear a given relation to certain components of the motor primary and thereby render said relay sensitive to the load component of the motor primary with certain of the current components of the motor primary bucked out according to the adjustment of said second current.

2,668,269
REVERSIBLE DIRECT CURRENT GENERATOR

André Louis Vintenon, Bois-Colombes, France, assignor to Electrom, Neuilly-sur-Seine, France, a company

Application May 22, 1951, Serial No. 227,575
Claims priority, application France May 26, 1950
11 Claims. (Cl. 322—17)

1. In a reversible direct current generator of the type including a rotatable ring for supporting the brush-holders and adapted to be shifted to one polar pitch by the rotation of the generator between two stops which limit the movement of said ring in each direction, in combination, commutating poles the windings of which are deenergized at rest, and means for energizing said

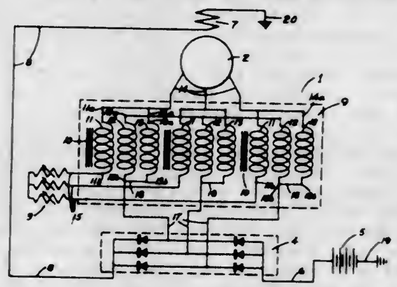


windings at the starting of the generator in opposite directions according to the rotary direction of said generator, each of said directions being determined by the direction of the movement of the ring for reaching each of the two stops.

2,668,270
VOLTAGE REGULATING SYSTEM

Hypolite L. La Baume, Toccoa, Ga., assignor to R. G. Le Tourneau, Inc., Peoria, Ill., a corporation of California

Application June 7, 1950, Serial No. 166,565
10 Claims. (Cl. 322—27)

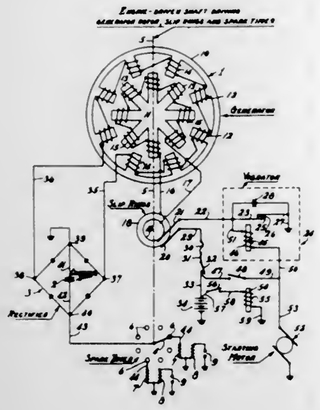


1. In an electrical circuit including a generator having an armature winding and a field winding, a variable load, and a rectifier for supplying exciter current to said field winding, a transformer comprising a magnetic core and a primary winding serially connected between said generator armature winding and load, a secondary winding connected in circuit with said rectifier and said field winding and having current induced therein by transformer action when current is present in the primary winding, said induced current being delivered to said rectifier and then to said generator field winding for maintaining the generator output voltage constant under the variable load, and means including a reactor winding on said transformer connected in a serial circuit with said secondary winding, and said reactor and secondary windings producing magnetic fluxes of opposite directions in said magnetic core.

2,668,271
HIGH-FREQUENCY IGNITION SYSTEM

Kenneth A. Harmon, Longmeadow, Mass., assignor to Wico Electric Company, West Springfield, Mass., a corporation of Massachusetts

Application March 13, 1951, Serial No. 215,360
1 Claim. (Cl. 322—70)



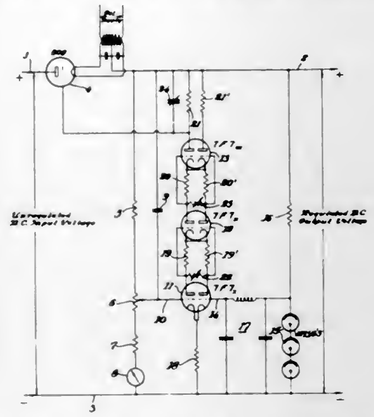
The combination with an alternating current generator having relatively rotatable elements, a field winding on one such element, and an armature winding on the other element in which armature winding an electromotive force is generated on relative rotation of the elements, of an electric energizing circuit including said field winding and adapted for connection to a battery, a pair of contacts in said circuit; a vibrator including said contacts, a stationary support for one contact, a resilient support for the other contact tending to hold it engaged with the first contact, said resilient support having a magnetic armature, and an electromagnet operable when energized to attract said armature and move said resilient support to disengage the contacts; an energizing circuit for the electromagnet adapted for connection to the battery in parallel with the field winding and including in series said contacts and electromagnet, and a control switch in the last-named circuit, whereby when the control switch is closed the contacts in the field winding circuit may be opened and closed at a constant and high frequency determined by the resiliency of the support for the movable contact and independently of the speed of relative rotation of said elements to generate an electromotive force in the armature winding.

2,668,272
VOLTAGE REGULATOR

Edward J. Groth, Jr., Woods Hole, Mass., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application March 1, 1946, Serial No. 651,286
3 Claims. (Cl. 323—22)

1. In a voltage regulating system of the type wherein a variable resistive element, connected in series with the positive side of an unregulated input voltage supply, is automatically varied to produce a regulated output voltage supply, in combination, two normally balanced symmetrical interconnecting parallel amplifying channels connected across said regulated output voltage supply; each of said channels comprising a plurality of thermionic amplifying tubes, each tube having at least a cathode, a grid, and an anode, the tubes of each channel being arranged in series with the anode of one tube being connected to the cathode of the succeeding tube through a resistance, respective resistive connections from the anode of the last tube of each channel to the positive side of said regulated output voltage supply, a common resistive connection from the cathode of the first tube of each channel to the negative side of said regulated output voltage supply, respective connections between the cathodes of the corresponding tubes of each channel, respective connections from the grid of each tube, except the first tube of each channel, to



the anode of the preceding tube; a voltage divider connected across said regulated output voltage supply; means associated with said divider for applying a percentage of the regulated output voltage between the grid of the first tube of one of said channels and the negative side of said regulated output voltage supply; circuit means also connected across said regulated output voltage supply, and including a voltage regulating tube, for deriving a constant voltage; means for applying said constant voltage between the grid of first tube of the other of said channels and the negative side of said regulated output voltage supply; and means for controlling the value of said variable resistive element in accordance with the voltage signal existing between the anode of the last tube of one of said channels and the positive side of said regulated output voltage supply.

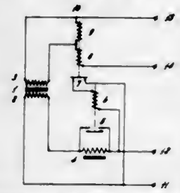
2,668,273
VOLTAGE REDUCING DEVICE FOR WELDING TRANSFORMERS

Cornelis Pieter Sonius, Groningen, Netherlands, assignor to Vennootschap onder firma Oscar Keip, Groningen, Netherlands, a corporation of the Netherlands

Application September 13, 1950, Serial No. 184,617
Claims priority, application Netherlands
September 22, 1949
1 Claim. (Cl. 323—60)

A voltage reducing device for welding transformers having a primary winding and a secondary winding, a primary circuit including said primary winding, a secondary circuit including said secondary winding, comprising a choke coil connected in the primary circuit, a contactor for short circuiting the choke coil, a relay for actuating the contactor including an actuating

armature having a tendency to move to contact closing position, a voltage coil connected in parallel with the secondary winding of the transformer and positioned to magnetically move the actuating armature to contact opening position upon the application of the voltage of the secondary winding thereto, and a current coil con-

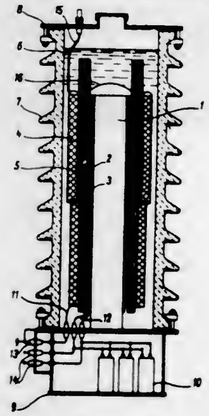


nected in the secondary circuit in series with the secondary winding of the transformer and positioned to magnetically overcome the magnetic effect of the voltage winding and shift the actuating armature to contact closing position upon the flow of current from the secondary winding through the current winding.

2,668,274
VOLTAGE TRANSFORMER FOR HIGH-TENSION MAINS

Hans Schneider, Zurich, Switzerland, assignor to Ateliers de Construction Oerlikon, Zurich-Oerlikon, Switzerland, a corporation of Switzerland

Application March 9, 1951, Serial No. 214,768
Claims priority, application Switzerland
March 28, 1950
7 Claims. (Cl. 323—61)

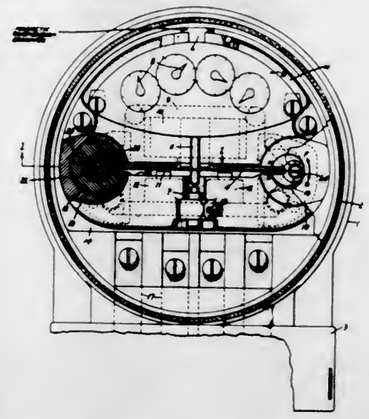


1. A high-tension voltage transformer comprising the combination of a base consisting of a metal box, a single upright column iron core on said base, an insulating cylinder fitting around said core, a secondary winding mounted on said cylinder, cylindrical insulation fitting around said winding, a primary winding mounted on said insulation, an upright housing composed of insulating material mounted on said base in spaced relation to said primary winding, insulated liquid filling said housing to a level above the top of said windings, a cover closing the top of said housing, a shunt connecting the potential side of said primary winding to said cover, capacitors located in said box, shunt conductors extending through sealed openings in the top of said box and connecting the terminals of said secondary winding to the terminals of said capacitors, and a conductor connecting the ground side of said primary winding to said base.

2,668,275
UNITARY INTEGRATING METER AND DAMPING MAGNET STRUCTURE

James H. Goss, Schenectady, N. Y., and Lewis I. Mendelsohn, Lynn, and Hans A. Bakke, Swampscott, Mass., assignors to General Electric Company, a corporation of New York

Application March 30, 1948, Serial No. 17,884
7 Claims. (Cl. 324—152)

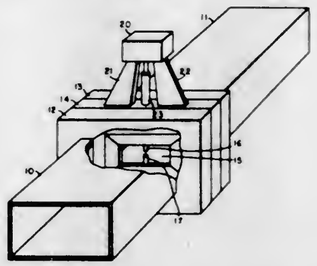


1. An integrating type of meter comprising a meter frame of nonmagnetic material, a meter shaft rotatively supported on one side of said frame, a disk of conducting material on said shaft, said frame having a slot therethrough and through which said disk extends, a driving magnet system having a laminated magnetic core secured directly to the other side of said meter frame and as close thereto as the configuration of the driving magnet system will allow for driving said disk, and a pair of C-shaped permanent magnets embedded in the nonmagnetic material of said frame at opposite ends of the slot therein embracing the disk at opposite edges thereof.

2,668,276
WAVEGUIDE SWITCH

Allen H. Schooley, Washington, D. C.

Application January 17, 1947, Serial No. 722,609
4 Claims. (Cl. 333—98)
(Granted under Title 35, U. S. Code (1952), sec. 266)



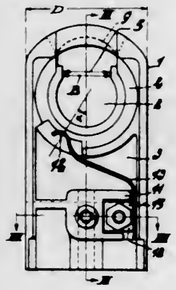
1. In a waveguide electrical energy transmission system, a switch, comprising; an aperture member, first and second rod members extending through the aperture member and into the aperture itself, and means positioning said rod members without contact therebetween, varying at a switching rate the spacing of the ends thereof extending into the aperture.

2,668,277

LAMP CAP FOR TUBULAR ELECTRIC LAMPS

Charles Henri Joseph Anderson and Johannes Hendricus Franciscus van Werd, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application August 2, 1950, Serial No. 177,263
Claims priority, application Netherlands August 11, 1949
2 Claims. (Cl. 339—52)



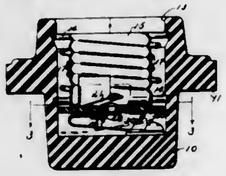
1. A lamp cap for a tubular electric lamp having an elongated bulb portion, comprising an axially-extending locking hub having a smaller diameter than the diameter of said cap, said locking hub having a transversely extending flange portion at the outer end thereof adapted to engage locking portions of a lampholder to prevent direct withdrawal of the bulb when its attached cap is inserted in the lampholder and the lamp then rotated, said hub having a slot extending transversely across the entire hub at its outer end for receiving a contact plate of the lampholder, and an electrical contact member extending through the hub and terminating within the bottom of the slot for making electrical contact with the contact plate when the cap is inserted in the lampholder and thereby protecting the contact member from external engagement by objects too large to fit within the slot.

2,668,278

RESILIENTLY MOUNTED LAMP RECEPTACLE

Leon M. Avery, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York

Application August 11, 1950, Serial No. 178,933
3 Claims. (Cl. 339—93)



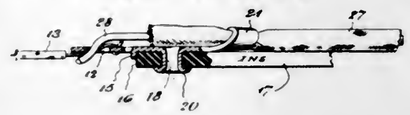
1. A resilient lamp receptacle comprising a body formed of insulating material and having a recess polygonal in cross section, the side walls of said recess being formed with circumferentially extending grooves spaced apart axially in the recess, a coil spring positioned in said recess with the coils in the end portions of said spring positioned in said grooves, the coils in the central portion of said spring being of less diameter than the coils in the end portions thereof, a screw shell positioned in and supported by the central coils of said spring, a disk of insulating material secured to the inner end of said screw shell, said disk being complemental in form to the cross sectional form of said recess and cooperable to restrain said shell from rotation, terminals mounted in the body and flexible connections between said terminals and said screw shell.

2,668,279

ELECTRICAL CONDUCTOR TERMINAL WITH STRAIN RELIEVING MEANS

Hirsch Epstein, Chicago, Ill.

Application June 17, 1950, Serial No. 168,759
1 Claim. (Cl. 339—103)



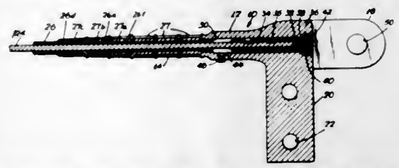
In a connector of the character described and formed of a metal strip, a socket formed from an end of said strip for receiving thereinto a conductor, said socket being integral with said strip and substantially of the same width as the strip, and having a wall which is twisted and bent in a circular formation with the said end disposed over the top of the strip whereby to form the socket, said end adapted to be crimped upon the conductor, said wall being substantially shorter than the body of the connector.

2,668,280

DEAD-END SPLICE CONNECTOR

Henry Peter Dupre, Croton-on-Hudson, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York

Application August 21, 1951, Serial No. 242,965
1 Claim. (Cl. 339—114)



A terminal connection comprising a cable having inner and outer metal sections, a pair of concentric metal sleeves, each indented over a section of the cable and forming a compartment inbetween sleeves for storing a sealing compound, said inner sleeve being secured to said inner cable section entirely within said compartment, said outer metal sleeve provided with a peripheral recess at one end thereof, said inner sleeve having a closed and enlarged end seated in said peripheral recess for supporting the inner cable section thereto and for closing the compartment between metal sleeves, and means for electrically and mechanically securing the outer metal cable section to a supporting structure.

2,668,281

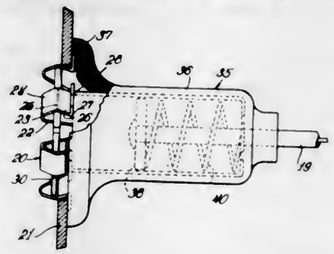
BULB SOCKET ASSEMBLY EMBODYING MEANS FOR FASTENING THE SAME IN A PERFORATED PANEL

Harold H. Clayton and Arlo D. Satterthwaite, Logansport, Ind., assignors to Essex Wire Corporation, Logansport, Ind., a corporation of Indiana

Application January 8, 1952, Serial No. 265,398
4 Claims. (Cl. 339—128)

1. In a bulb socket assembly of the class described, a metal bulb receiving casing comprising

a cylindrical barrel portion having bayonet slot connector openings formed on opposite sides and inwardly of one end thereof for lockingly engaging the socket end of a light bulb inserted therein, a plurality of symmetrically spaced, resilient snap-in finger members formed integrally with said barrel portion and extending outwardly of the said one end thereof, each of said finger members comprising a reentrantly looped over extension of said barrel portion, with the looped over portion thereof lying radially outward of the diametrical limits of said barrel portion and having the free end thereof terminating in a planar stop section extending radially outward and transversely of the longitudinal axis



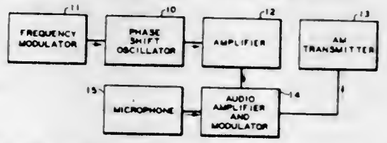
of said barrel portion; an inwardly recessed detent portion formed intermediate said finger's looped over portion and said stop section thereof for lockingly engaging the periphery of a mounting panel aperture into which said socket assembly is to be inserted; and an annular spring member mounted through the loop of said fingers to bias said looped over portions thereof radially outward to maintain such spaced outwardly from said barrel portion and to supplement the resilient gripping action of said fingers when the same are inserted into the mounting panel aperture; said stop sections of said fingers serving to limit the insertion of said socket into the mounting panel.

2,668,282

TRANSMITTER FOR RADIO SEISMIC SYSTEMS

Orin C. Montgomery, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application September 20, 1948, Serial No. 50,202
3 Claims. (Cl. 340—15)



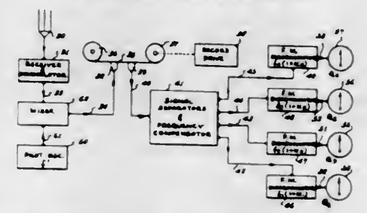
1. Apparatus for transmitting time break signals and other intelligence over a single radio channel which comprises, in combination, a radio transmitter including an audio frequency oscillator, an electric blasting cap, a modulator circuit including said blasting cap and operated to vary the frequency of said oscillator responsive to the detonation of said blasting cap, means for producing a radio frequency carrier wave, means for amplitude modulating the carrier wave with the output of said oscillator, means for further amplitude modulating the carrier wave with other intelligence, and a radio receiver including an amplitude modulation receiver for demodulating said carrier wave to produce an audio frequency output signal, first and second channels fed by the audio frequency output of said receiver, said first channel including a limiter and discriminator, an audio amplifier fed by said discriminator, and an indicator sensitive to the output of said audio amplifier, said second channel including an audio amplifier, and a device responsive to said intelligence fed by the second channel audio amplifier.

2,668,283

FREQUENCY COMPENSATION METHOD AND APPARATUS

John T. Mullin, Los Angeles, Calif.

Application August 20, 1951, Serial No. 242,777
19 Claims. (Cl. 340—174)



1. In a device for compensating for undesired frequency variations in an output signal having a frequency normally bearing a predetermined relation to a given frequency and accompanied by a pilot signal of another frequency exhibiting frequency variations corresponding to said undesired frequency variations, the combination of: a frequency converter adapted to receive said pilot signal for multiplying said other frequency thereof by a factor substantially equal to the ratio of said given frequency to said other frequency and produce a converted pilot signal having a frequency substantially equal to said given frequency and including a variable frequency component representative of said frequency variations of said pilot signal; a signal generator for producing a control signal of fixed frequency; a signal combining means coupled to said generator and to said converter for combining said control signal and said converted pilot signal to produce a reference signal having a variable frequency component representative of said frequency variations of said pilot signal; and a signal comparing means coupled to said signal combining means and adapted also to receive said output signal for subtracting from the frequency of said output signal said variable frequency component of said reference signal to produce a corrected output signal substantially free of said undesired variations.

2,668,284

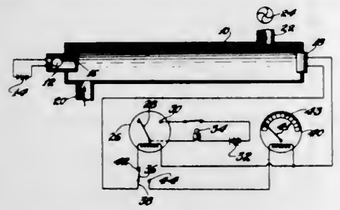
APPARATUS FOR DETECTING SUSPENDED MATTER IN FLUIDS

Daniel Mapes, West Caldwell, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey

Application February 28, 1950, Serial No. 146,775
5 Claims. (Cl. 340—237)

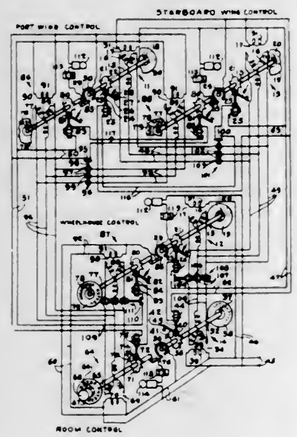
1. In smoke detecting apparatus of the class described, the combination of a source of light, an electric circuit therefor, a second electric circuit, means responsive to variations in the intensity of the rays of light from said source to effect changes in the current flowing in said second circuit, means for interposing a stream of air in which smoke is to be detected in the path of said light rays to effect variations in the intensity thereof, electroresponsive means in said

second circuit operable upon the presence of smoke in the path of said rays, signal means, a circuit for said signal means including switch means operable by said electroresponsive means adapted to be closed to operate the signal means



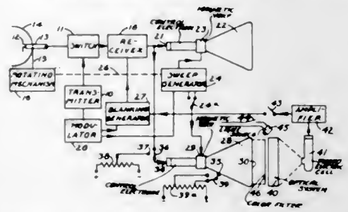
upon the operation of said electroresponsive means, a smoke density indicator in paid second circuit and means operable to render said electroresponsive means ineffective and said indicator operable to effect an indication of the density of the smoke and changes therein.

2,668,285
ENGINE ROOM TELEGRAPH
Herman H. Curry, Inverness, Fla.
Original application March 14, 1946, Serial No. 654,489, now Patent No. 2,579,476, dated December 25, 1951. Divided and this application August 24, 1951, Serial No. 243,569
6 Claims. (Cl. 340—268)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An engine room telegraph system comprising, in combination, a deck indicator unit and an engine room indicator unit each having a motion transmitting self-synchronous motor and a motion receiving self-synchronous motor and means for indicating the respective positions of the motors, electric circuit means connecting the motion transmitting motor of each unit with the motion receiving motor of the other unit for self-synchronous operation, an alarm device, an electric circuit for operating said alarm, two coacting members each having a fixed positional relation with a different one of said motors in one of said units, said coacting members being connected in said alarm circuit and arranged to close said alarm circuit and operate said alarm when the motors in said last mentioned unit are not in positional agreement, and means for interposing a time delay in said alarm circuit preventing operation of said alarm device until after a predetermined interval of time, a graphic recorder having variable speed means for continuously advancing its recording strip, means connected with said motion transmitting motors for recording on said strip the direction of movement of said motion transmitting motors in each of said units, and means responsive to misalignment of the motors in one of said units for increasing the speed of advance of said strip when the motion transmitting motors are not in positional agreement.

2,668,286
MOVING OBJECT SELECTIVE DETECTION SYSTEM
Milton G. White, Cambridge, Mass.
Application October 23, 1943, Serial No. 507,463
15 Claims. (Cl. 343—7.7)



1. A system of radio-echo detection comprising, in combination, means to produce a relatively concentrated beam of electromagnetic radiation, means to cause said beam to scan a predetermined field about a predetermined axis, means to receive radiation reflected back from objects within said field, a first cathode ray tube, a first screen on the face of said cathode ray tube capable of being darkly colored when bombarded by electrons and to hold the color for a relatively long period of time, a second screen on the face of said cathode ray tube between said first screen and the other elements of said tube capable of fluorescing when bombarded by electrons and having a short persistency of fluorescence, means to cause the electron beam of said tube to scan the face of said tube repeatedly through a predetermined point on the face thereof, means to cause the movement of said electron beam to rotate about said predetermined point in synchronism with the movement of said electromagnetic beam about said axis, means to maintain the velocity of the electrons in said electron beam, so that said electrons will penetrate said second screen and a said first screen when said electron beam is intensified a predetermined amount, means to cause said received radiation to intensify said electron beam said predetermined amount, whereupon dark spots are produced on said first screen corresponding to objects in said field reflecting said electromagnetic radiation, said dark spots remaining for an indefinite time after said reflected radiation is received, means thereafter to remove the effect of said reflected radiation from said electron beam and to maintain said beam at constant intensity sufficient to cause it to affect said second screen but not said first screen, a second cathode ray tube, means to cause the electron beam of said second cathode ray tube to scan the face of said tube in synchronism with the movement of the electron beam in said first cathode ray tube, means to cause said received radiation to modulate the intensity of said electron beam in said second cathode ray tube, and means to cause the effect of said constant intensity electron beam in said first tube scanning across said second screen thereof to reduce the intensity of the electron beam in said second cathode ray tube whenever the electron beam in said first cathode ray tube crosses a point on the face of said tube corresponding to a recorded spot on said first screen.

2,668,287
RADIO NAVIGATION SYSTEM
Luis W. Alvarez, Berkeley, Calif.
Application June 18, 1948, Serial No. 33,803
20 Claims. (Cl. 343—112)



1. A radio navigation system comprising a plurality of radio pulse transmitters, a master timing mechanism common to all of said transmitters for establishing a predetermined time relation between the pulses radiated thereby at the beginning of recurrent cycles of operation, means for transmitting a characteristic signal from one of said transmitters at the beginning of each cycle and pulsing it at regular intervals within each cycle, and means for pulsing another of said transmitters an equal number of times within said cycle and varying the intervals between pulses of said second transmitter by predetermined increments.

2,668,288
DISTANCE MEASURING DEVICE
Pierre André Perilhou, Clamart, France, assignor to Office National d'Etudes et de Recherches Aeronautiques, Paris, France, a company of France
Application September 22, 1948, Serial No. 50,515
Claims priority, application France
September 23, 1947
21 Claims. (Cl. 343—112)

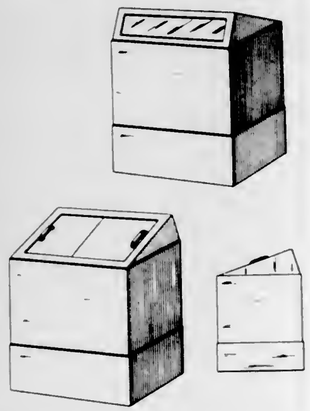


1. A system for distance measurement comprising means for transmitting from one location wave energy radiations presenting in azimuth a variable characteristic and means for receiving said radiations at another location for providing an indication of distance between said two locations, said latter means comprising at least two independent aerials spaced apart transversely to the direction joining said locations and means using the signals received by said two aerials to provide said indication by the difference in value of said variable characteristic of said radiations as the same are received by one and the other of said aerials.

DESIGNS

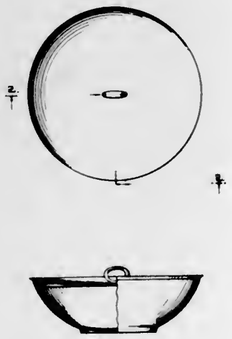
FEBRUARY 2, 1954

171,371
COMBINATION HOT DOG STEAMER AND BUN WARMER
Arthur D. Altemiller, Affton, Mo., assignor to Hercules Steel Products Corporation, Galion, Ohio, a corporation of Delaware
Application July 8, 1953, Serial No. 25,840
Term of patent 14 years
(Cl. D81—10)



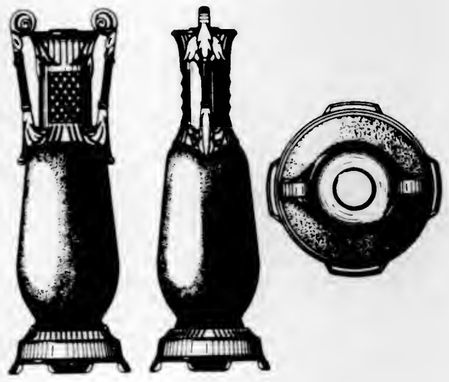
The ornamental design for a combination hot dog steamer and bun warmer, substantially as shown.

171,372
COVERED DISH OR SIMILAR ARTICLE
A Baker Barnhart, New York, N. Y., assignor to The Rosenthal-Block China Corporation, New York, N. Y.
Application August 11, 1953, Serial No. 26,409
Term of patent 7 years
(Cl. D44—15)



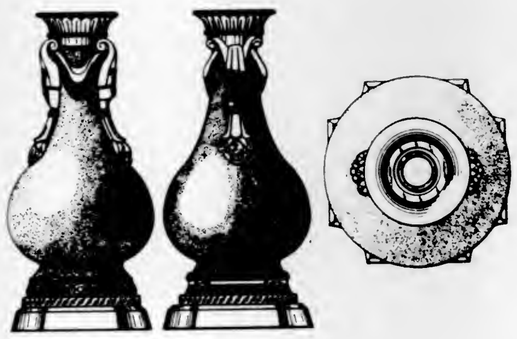
The ornamental design for a covered dish or similar article, as shown.

171,373
DECANTER
Hyman C. Berkowitz, Wendell, Idaho, assignor to Berke Brothers Distilleries Inc., Boston, Mass., a corporation of Delaware
Application March 30, 1953, Serial No. 24,243
Term of patent 14 years
(Cl. D58—8)



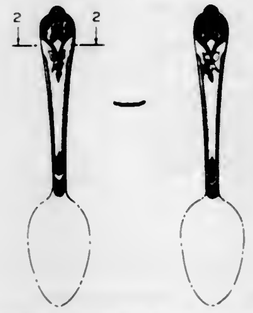
The ornamental design for a decanter, substantially as shown and described.

171,374
DECANTER
Hyman C. Berkowitz, Wendell, Idaho, assignor to Berke Brothers Distilleries Inc., Boston, Mass., a corporation of Delaware
Application March 30, 1953, Serial No. 24,244
Term of patent 14 years
(Cl. D58—8)



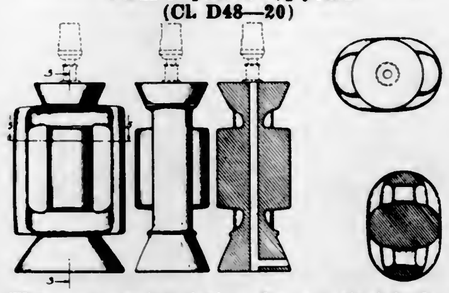
The ornamental design for a decanter, substantially as shown and described.

171,375
SPOON OR SIMILAR ARTICLE OF FLATWARE
Milton Bernstein, New York, N. Y., assignor to National Silver Company, New York, N. Y., a corporation of New York
Application February 18, 1953, Serial No. 23,681
Term of patent 14 years
(Cl. D54—12)



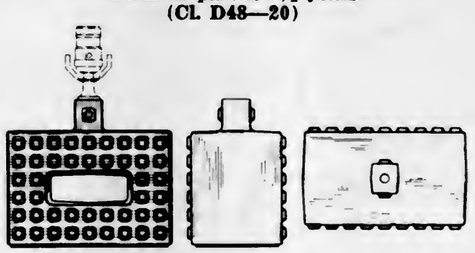
The ornamental design for a spoon or similar article of flatware, as shown.

171,376
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill., assignor to Bradley Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 29, 1953, Serial No. 25,688
Term of patent 3½ years
(Cl. D48—20)



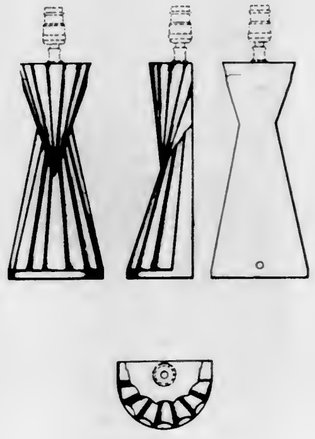
The ornamental design for an electric lamp base, substantially as shown and described.

171,377
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill., assignor to Bradley Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 29, 1953, Serial No. 25,689
Term of patent 3½ years
(Cl. D48—20)



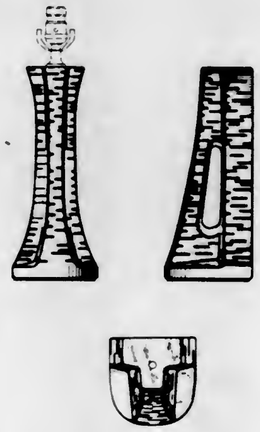
The ornamental design for an electric lamp base, substantially as shown and described.

171,378
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill., assignor to Bradley Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 29, 1953, Serial No. 25,690
Term of patent 3½ years
(Cl. D48—20)



The ornamental design for an electric lamp base, substantially as shown and described.

171,379
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill., assignor to Bradley Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 29, 1953, Serial No. 25,692
Term of patent 3½ years
(Cl. D48—20)



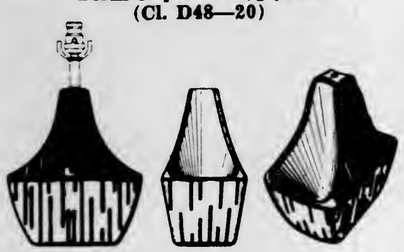
The ornamental design for an electric lamp base, substantially as shown and described.

171,380
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill., assignor to Bradley Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 22, 1953, Serial No. 26,074
Term of patent 3½ years
(Cl. D48—20)



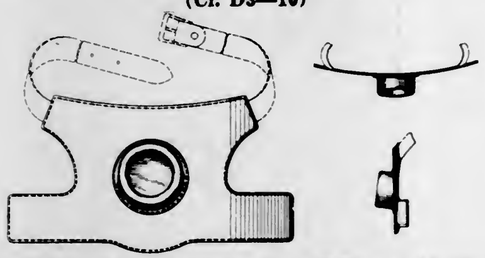
The ornamental design for an electric lamp base, substantially as shown and described.

171,381
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill., assignor to Bradley Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 22, 1953, Serial No. 26,076
Term of patent 3½ years
(Cl. D48—20)



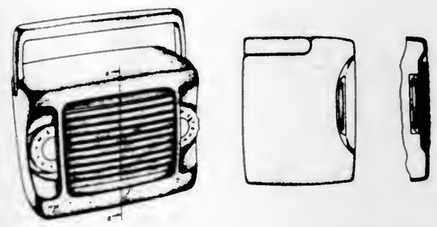
The ornamental design for an electric lamp base, substantially as shown and described.

171,382
FISHING ROD HOLDER BELT
Robert J. Brown, Los Angeles, Calif.
Application November 8, 1952, Serial No. 22,210
Term of patent 14 years
(Cl. D3—10)



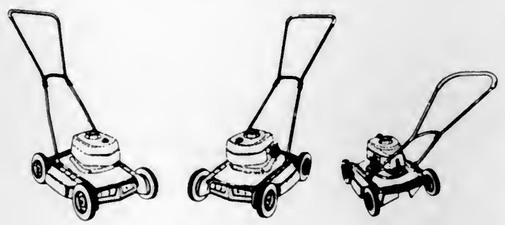
The ornamental design for a fishing rod holder belt, substantially as shown and described.

171,383
RADIO CABINET
Robert D. Budlong, Skokie, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application May 27, 1953, Serial No. 25,200
Term of patent 7 years
(Cl. D56—4)



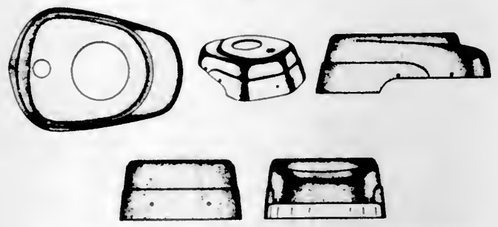
The ornamental design for a radio cabinet, substantially as shown and described.

171,384
LAWN MOWER
Charles W. Butler, Englewood, N. J., assignor to Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn., a corporation of Minnesota
Application October 23, 1952, Serial No. 21,957
Term of patent 14 years
(Cl. D40—1)



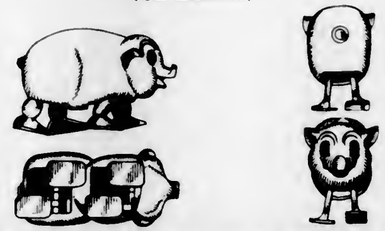
The ornamental design for a lawn mower, as shown and described.

171,385
GASOLINE MOTOR HOUSING
Charles W. Butler, Englewood, N. J., assignor to Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn., a corporation of Minnesota
Application August 7, 1953, Serial No. 26,342
Term of patent 14 years
(Cl. D40—1)



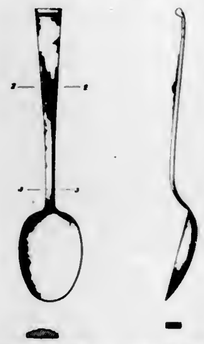
The ornamental design for a gasoline motor housing, substantially as shown.

171,386
TOY WALKING PIG
Laurie J. Campbell, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application December 30, 1952, Serial No. 22,934
Term of patent 7 years
(Cl. D34—2)



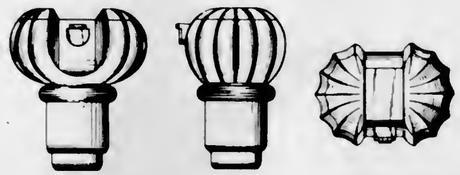
The ornamental design for a toy walking pig, substantially as shown and described.

171,387
SPOON OR SIMILAR ARTICLE
Theodore E. Cayer, Taunton, Mass., assignor to Reed and Barton Corporation, Taunton, Mass., a corporation of Massachusetts
Application July 10, 1953, Serial No. 25,883
Term of patent 14 years
(Cl. D54—12)



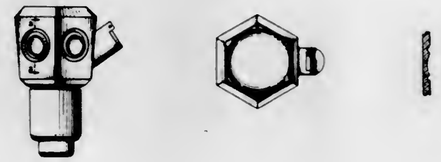
The ornamental design for a spoon or similar article, as shown.

171,388
COMBINED BOTTLE STOPPER AND POURER
Ernest L. Du Pree, Weston, Conn., and Daniel Goldstein, New York, N. Y., assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware
Application September 16, 1953, Serial No. 26,824
Term of patent 14 years
(Cl. D58—10)



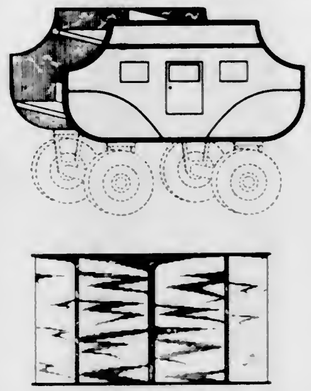
The ornamental design for a combined bottle stopper and pourer, as shown.

171,389
COMBINED BOTTLE STOPPER AND POURER
Ernest L. Du Pree, Weston, Conn., and Daniel Goldstein, New York, N. Y., assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware
Application October 5, 1953, Serial No. 27,069
Term of patent 14 years
(Cl. D58—10)



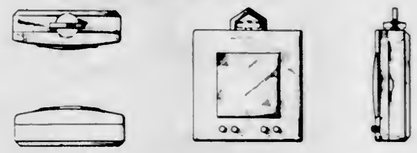
The ornamental design for a combined bottle stopper and pourer, as shown and described.

171,390
MODEL STAGECOACH BODY FOR COASTER WAGONS OR SIMILAR ARTICLE
Arthur A. Ebert, Tucson, Ariz.
Application July 10, 1953, Serial No. 25,873
Term of patent 14 years
(Cl. D34—15)



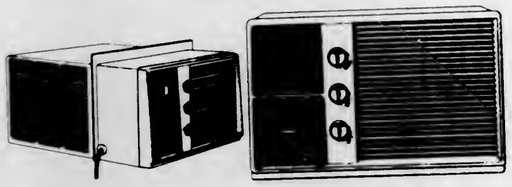
The ornamental design for a model stagecoach body for coaster wagons or similar article, as shown and described.

171,391
CHARM CASE
Henri Elion, New Rochelle, N. Y.
Application December 3, 1952, Serial No. 22,539
Term of patent 7 years
(Cl. D45—15)



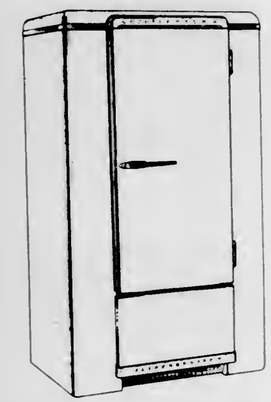
The ornamental design for a charm case, substantially as shown and described.

171,392
ROOM AIR CONDITIONING UNIT
Robert R. Fink, Duluth, Minn., assignor to International Telephone and Telegraph Corporation, a corporation of Maryland
Application February 4, 1953, Serial No. 23,445
Term of patent 7 years
(Cl. D62—4)



The ornamental design for a room air conditioning unit, as shown and described.

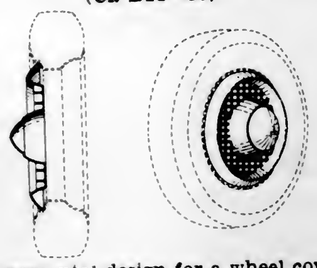
171,393
FREEZER CABINET
Robert R. Fink, Duluth, Minn., assignor to International Telephone and Telegraph Corporation, a corporation of Maryland
Application February 4, 1953, Serial No. 23,446
Term of patent 7 years
(Cl. D67—3)





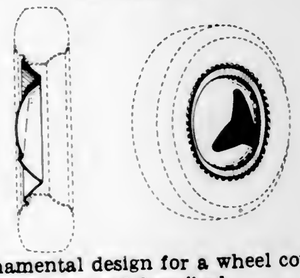
The ornamental design for a freezer cabinet, substantially as shown and described.

171,394
WHEEL COVER
William J. Flajole, Birmingham, Mich.
Application April 24, 1953, Serial No. 24,664
Term of patent 14 years
(Cl. D14—30)



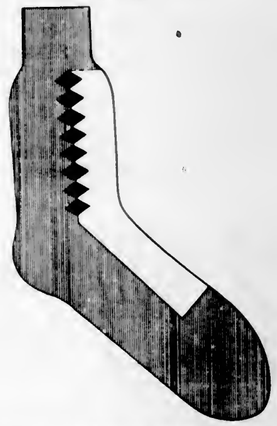
The ornamental design for a wheel cover, substantially as shown and described.

171,395
WHEEL COVER
William J. Flajole, Birmingham, Mich.
Application April 24, 1953, Serial No. 24,665
Term of patent 14 years
(Cl. D14—30)



The ornamental design for a wheel cover, substantially as shown and described.

171,396
SOCK
Oscar Frégeolle, Central Falls, R. I., assignor to Rhody Knit, Inc., a corporation of Rhode Island
Application May 18, 1953, Serial No. 25,081
Term of patent 7 years
(Cl. D47—7)



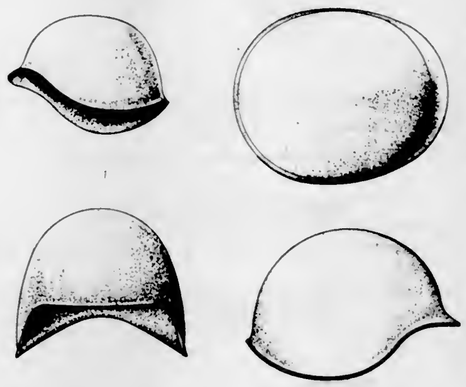
The ornamental design for a sock, substantially as shown and described.

171,397
WATCHCASE
Joseph Granat, San Francisco, Calif.
Application June 1, 1953, Serial No. 25,262
Term of patent 7 years
(Cl. D42—8)



The ornamental design for a watchcase, substantially as shown and described.

171,398
HELMET
Stephen V. Grancsay, New York, N. Y., and Russell W. Ehlers, Silver Spring, Md., assignors to the United States of America as represented by the Secretary of the Army
Application January 22, 1952, Serial No. 18,152
Term of patent 14 years
(Cl. D3—13)



The ornamental design for a helmet, substantially as shown.

171,399
DOLL
Dawn Howes, Suva, Fiji Islands
Application June 15, 1953, Serial No. 25,511
Term of patent 14 years
(Cl. D34—2)



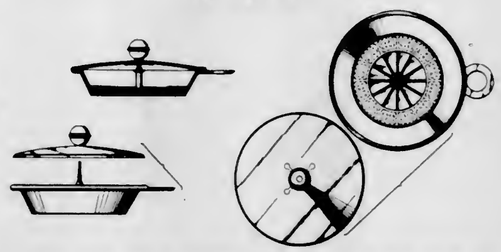
The ornamental design for a doll, as shown and described.

171,400
HAMMER
Robert W. Hughes, Fort Worth, Tex.
Application September 21, 1953, Serial No. 26,871
Term of patent 14 years
(Cl. D93—4)



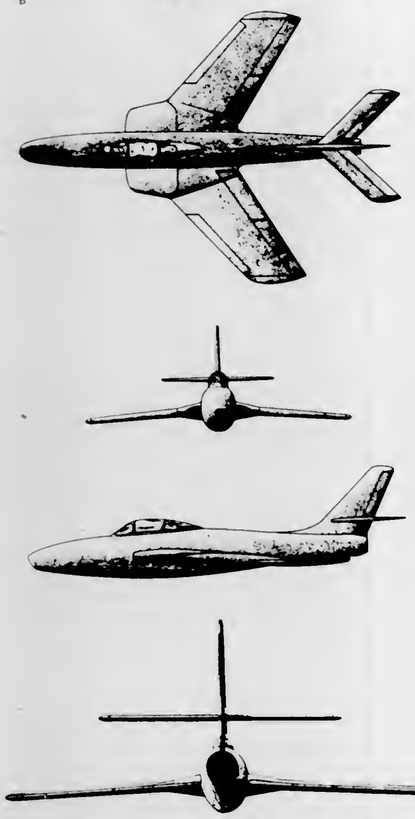
The ornamental design for a hammer, substantially as shown.

171,401
GAME APPARATUS OR SIMILAR ARTICLE
Philip F. Kaminsky, Wantagh, N. Y.
Application November 25, 1952, Serial No. 22,438
Term of patent 3½ years
(Cl. D34—5)



The ornamental design for a game apparatus or similar article, substantially as shown and described.

171,402
AIRPLANE
Alexander Kartveli, Huntington, N. Y., assignor to Republic Aviation Corporation, Farmingdale, N. Y., a corporation of Delaware
Application February 11, 1952, Serial No. 18,473
Term of patent 14 years
(Cl. D71—1)



The ornamental design for an airplane, substantially as shown.

171,403
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,310
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,404
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 17, 1953, Serial No. 26,467
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,405
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 17, 1953, Serial No. 26,470
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,406
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 2, 1953, Serial No. 26,675
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,407
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 2, 1953, Serial No. 26,678
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,408
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 2, 1953, Serial No. 26,679
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,409
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 2, 1953, Serial No. 26,682
Term of patent 7 years
(Cl. D45—19)



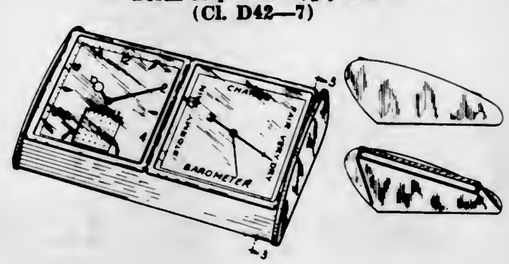
The ornamental design for a brooch or the like, substantially as shown.

171,410
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 2, 1953, Serial No. 26,684
Term of patent 7 years
(Cl. D45—9)



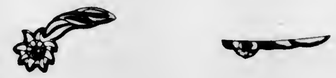
The ornamental design for an earring or the like, substantially as shown.

171,411
COMBINED DESK CLOCK AND BAROMETER
Samuel J. Kaufman, New York, N. Y.
Application July 7, 1952, Serial No. 20,499
Term of patent 3½ years
(Cl. D42—7)



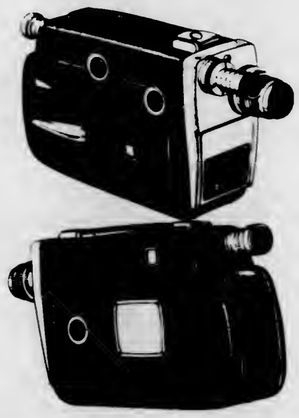
The ornamental design for a combined desk clock and barometer, substantially as shown.

171,412
ORNAMENT FOR SPECTACLE FRAMES
Jerry E. Kinsey, St. Louis, Mo.
Application April 10, 1953, Serial No. 24,441
Term of patent 3½ years
(Cl. D57—1)



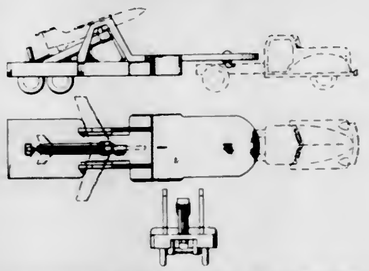
The ornamental design for an ornament for spectacle frames, substantially as shown.

171,413
MOTION-PICTURE CAMERA
Frederick G. Knowles, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 22, 1953, Serial No. 26,095
Term of patent 14 years
(Cl. D61—1)



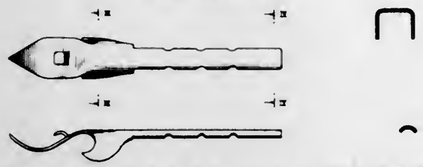
The ornamental design for a motion-picture camera, as shown and described.

171,414
TOY LAUNCHING TRAILER
Eugene B. Laskin, Baltimore, Md.
Application July 30, 1953, Serial No. 26,195
Term of patent 7 years
(Cl. D34—15)



The ornamental design for a toy launching trailer, as shown and described.

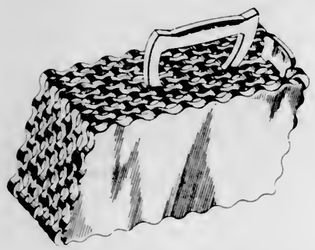
171,415
COMBINED BOTTLE AND CAN OPENER
Isadore Albert Lipman, Meriden, Conn., assignor to Ellmore Silver Co., Inc., Meriden, Conn., a corporation of Connecticut
Application August 4, 1953, Serial No. 26,263
Term of patent 14 years
(Cl. D44—29)



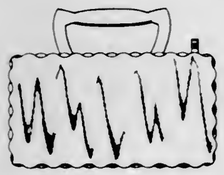
The ornamental design for a combined bottle and can opener, as shown.

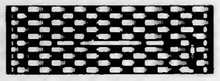
171,416
HANDBAG
José Amaury Llorens, Santurce Ward, San Juan, P. R.
Application August 7, 1953, Serial No. 26,350
Term of patent 14 years
(Cl. D87—3)





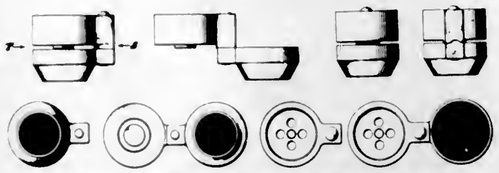






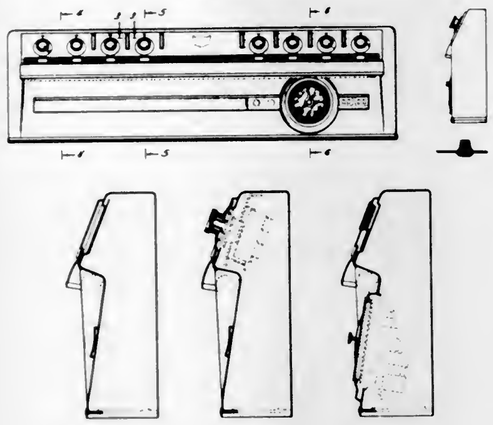
The ornamental design for a handbag, as shown and described.

171,417
SPRAY NOZZLE
Oscar Manning, Los Angeles, Calif.
Application October 21, 1952, Serial No. 21,921
Term of patent 14 years
(Cl. D91—3)



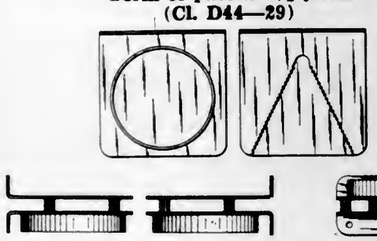
The ornamental design for a spray nozzle, substantially as shown.

171,418
INSTRUMENT BACK PANEL FOR A STOVE
William J. Miller and Armour H. Titus, Jr., Galesburg, Ill., and Lawrence H. Wilson, Grosse Pointe, Mich., assignors to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application July 27, 1953, Serial No. 26,153
Term of patent 14 years
(Cl. D81—25)



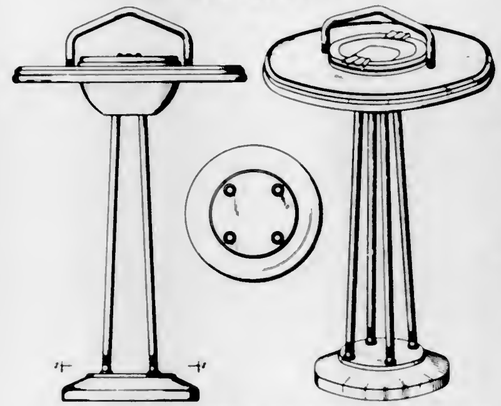
The ornamental design for an instrument back panel for a stove, as shown and described.

171,419
COMBINED GLASS HOLDER AND OPENER FOR BOTTLES AND JARS
George Frederick Muxxy, Malden, Mass.
Application August 25, 1953, Serial No. 26,580
Term of patent 3½ years
(Cl. D44—29)



The ornamental design for a combined glass holder and opener for bottles and jars, as shown.

171,420
SMOKER'S STAND OR SIMILAR ARTICLE
William C. Panzer, Chicago, Ill.
Application April 15, 1953, Serial No. 24,507
Term of patent 14 years
(Cl. D85—2)



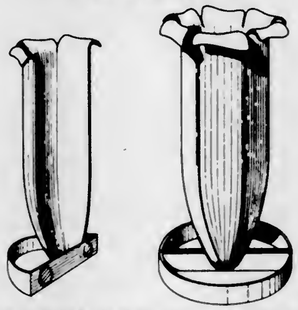
The ornamental design for a smoker's stand or similar article, substantially as shown.

171,421
BANANA HOLDING CUP OR SIMILAR ARTICLE
Henry G. Parker, New Orleans, La.
Application August 10, 1953, Serial No. 26,397
Term of patent 7 years
(Cl. D44—9)



The ornamental design for a banana holding cup or similar article, as shown and described.

171,422
BANANA HOLDING CUP OR SIMILAR ARTICLE
Henry G. Parker, New Orleans, La.
Application August 10, 1953, Serial No. 26,398
Term of patent 7 years
(Cl. D44—9)



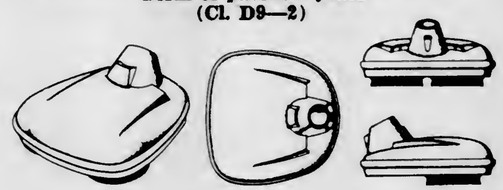
The ornamental design for a banana holding cup or similar article, as shown and described.

171,423
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application August 17, 1953, Serial No. 26,464
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,424
FLOOR POLISHING ATTACHMENT FOR VACUUM CLEANERS
Edward P. Russell, El Segundo, Calif., assignor to Interstate Engineering Corporation, El Segundo, Calif., a corporation of California
Application March 6, 1953, Serial No. 23,928
Term of patent 7 years
(Cl. D9—2)



The ornamental design for a floor polishing attachment for vacuum cleaners, as shown.

171,425
BROOCH OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie, New York, N. Y., a partnership consisting of Marcel Boucher and Jeanne Boucher
Application July 20, 1953, Serial No. 26,046
Term of patent 3½ years
(Cl. D45—19)



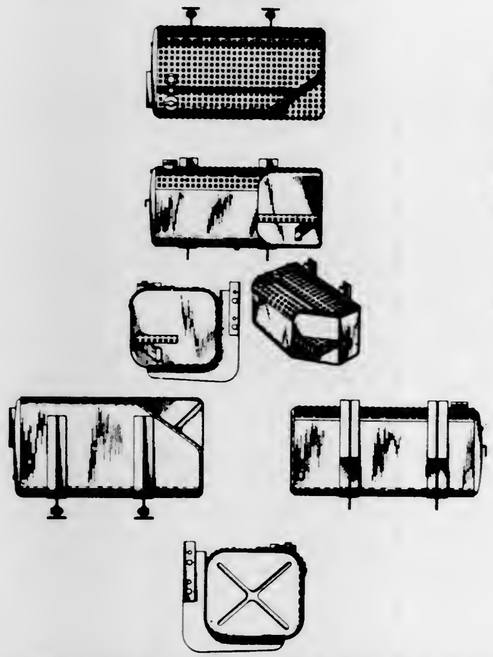
The ornamental design for a brooch or similar article, as shown.

171,426
BOOK END OR SIMILAR ARTICLE
Mynna Fox Shulman, Baltimore, Md.
Application December 19, 1951, Serial No. 17,779
Term of patent 14 years
(Cl. D33—1)



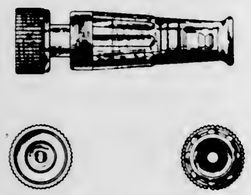
The ornamental design for a book end or similar article, as shown.

171,427
FUEL TANK AND HOLDER THEREFOR
Mahlon C. Snyder, Hamburg, N. Y.
Application February 10, 1953, Serial No. 23,542
Term of patent 14 years
(Cl. D14—3)



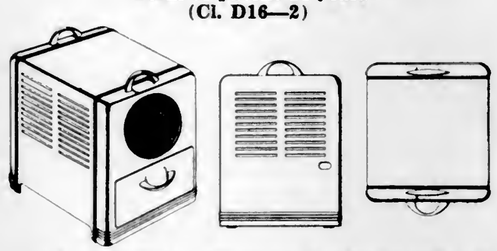
The ornamental design for a fuel tank and holder therefor, substantially as shown.

171,428
HOSE NOZZLE
Lloyd F. Storie, Shaker Heights, Ohio, assignor to The Vlchek Tool Company, Cleveland, Ohio, a corporation of Ohio
Application January 9, 1953, Serial No. 23,081
Term of patent 14 years
(Cl. D91—1)



The ornamental design for a hose nozzle, as shown.

171,429
DEHUMIDIFIER
Harry E. Thompson, Steubenville, Ohio, assignor to The Ohio Foundry & Manufacturing Company, Steubenville, Ohio, a corporation of Ohio
Application August 17, 1953, Serial No. 26,481
Term of patent 14 years
(Cl. D16—2)



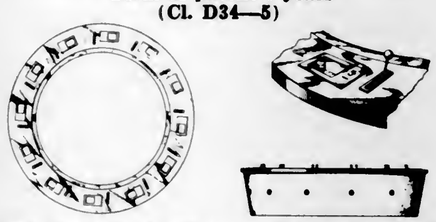
The ornamental design for a dehumidifier, as shown and described.

171,430
DOLL OR THE LIKE
Dorothy M. Tint, Brooklyn, N. Y.
Application April 27, 1953, Serial No. 24,677
Term of patent 7 years
(Cl. D34—4)



The ornamental design for a doll or the like, substantially as shown.

171,431
SLOT MACHINE BAR
Albert F. Villaudy, Los Angeles, Calif.
Application July 21, 1953, Serial No. 26,065
Term of patent 7 years
(Cl. D34—5)



The ornamental design for a slot machine bar, substantially as shown and described.

February 9, 1954 Volume 679 Number 2

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce
SINCLAIR WEEKS, *Secretary*

U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business December 31, 1953

Total number of patent applications awaiting action, 107,792. Date of oldest new application, February 10, 1953; date of oldest amended application, February 18, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	4-2-53	4-2-53	1431
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	3-24-53	3-27-53	1313
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Compositions (part).	4-22-53	4-20-53	2060
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	4-8-53	4-1-53	1591
5. ROBINSON, C. W., Harvesters; Harrows and Diggers (part); Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates.	4-7-53	4-10-53	1423
6. SURLE, H., Natural Resins; Proteins; Heterocyclic; Amides; Amines; General Organic Processes	3-2 53	3-2-53	2191
7. GONSALVES, J. E., Optics; Photography (part)	3-10-53	3-10-53	1916
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	4-21-53	4-21-53	1447
9. BRANSON, J. H., Pumps: Fans; Turbines	4-1-53	4-1-53	1261
10. Abolished as of November 16, 1953. See Commissioner's Administrative Order No. 45.			
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button. Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching. Cutlery; Cleaning and Liquid Treatment of Solids.	4-15-53	4-13-53	1252
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches; Interrelated Clutch and Motor or Transmission Controls.	4-6-53	4-7-53	1868
13. BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Forging and Welding, Plastic Working, Drawing, Sawing, Milling, Planing, Turning.	3-18-53	3-18-53	1321
14. MANIAN, J. C., Metal Working (part)—e. g., Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes.	4-13-53	4-13-53	1529
15. BRINDISI, M. V., Plastics: Plastic Block and Earthenware Apparatus; Glass	4-6-53	4-6-53	1782
16. LOVEWELL, N. N., Television: Telephony; Recorders	3-2-53	3-2-53	1854
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	3-23-53	4-1-53	1518
18. KURZ, J. A., Power Plants; Speed Responsive Devices; Brakes	4-2-53	3-23-53	1401
19. PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners	3-6-53	3-4-53	1094
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking.	4-24-53	4-23-53	1227
21. MADER, R. C., Textiles	4-2-53	4-3-53	1283
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling.	4-20-53	4-16-53	1226
23. ANDRUS. L. M., Cash Registers; Calculators and Counters; Education	3-20-53	3-6-53	1093
24. DRACOPOULOS, P. T., (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	6-4-53	6-8-53	1095
25. NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus.	5-1-53	5-1-53	1439
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	4-3-53	4 7-53	2018
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	4-22-53	4-21-53	1283
28. BRAUNER, R H., Steam and Internal Combustion Engines; Fluid Servo-Motors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers: Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes.	4-28-53	4-20-53	1449
29. HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers.	4-8-53	4-3-53	1362
30. BISHOFF, A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidostats; Illuminating Burners; Doors and Windows; Fluid Sprinkling, Spraying and Diffusing.	6-1-53	6-1-53	1545
31. HUTCHISON, E. W., Mineral Oils; Urea Adducts; Silicon Containing Carbon Compounds; Hydrogenation of Carbon Oxides; Partial Oxidation of Non-Aromatic Hydrocarbon Mixtures, Hydrocarbons, Halogenated Hydrocarbons.	3-17-53	3-12-53	1936
32. BERMAN, H., Gas and Liquid Carburetors; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.	4-27-53	4-27-53	1470
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	3-26-53	3-23-53	2043
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	3-13-53	3-10-53	1353
35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet; Kitchen and Table Articles	4-14-53	4-3-53	1504
36. McFADYEN, A. D., Measuring and Testing	4-9-53	4-8-53	1089
37. LEVY, M. L., Electricity—Switches, Welding, Heating	5-4-53	4-27-53	1876
38. MARMELSTEIN, N., Lignins; Azo; Carbohydrate; Carbocyclic or Acyclic Compounds (part), e. g., Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Hydroxy.	3-18-53	3-20-53	2121
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	5-1-53	5-1-53	1575
40. DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages	5-4-53	5-5-53	2215

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	4-13-53	4-10-53	1811
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Connectors.	4-2-53	4-3-53	1765
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	3-11-53	3-16-53	1999
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	4-20-53	4-16-53	1277
46. O'LEARY, R. A., Abolished as of January 4, 1954. See Commissioner's Administrative Order No. 46 (O. G.).	3-26-53	3-26-53	1183
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	4-6-53	4-6-53	1599
48. BERNSTEIN, S., Electricity; Electrical Conversion Systems, Measuring and Testing (part), Ignitors, Adjustable Induction Devices.	3-12-53	3-16-53	1916
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	4-13-53	4-9-53	1451
50. BENGEL, W. G., Synthetic Resins; Rubber	5-18-53	5-18-53	2121
51. YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators, Modulators; Duplex or Multiplex Radio Communication; Piezoelectric Crystal Devices; Music.	4-7-53	4-3-53	1598
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	5-6-53	5-6-53	1891
53. REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Metal Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.	4-3-53	4-6-53	1687
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits, Ray Energy Applications.	3-30-53	4-8-53	1940
55. KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors.	3-2-53	3-9-53	1701
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	5-4-53	5-4-53	1442
57. MILLER, A. B., (DURHAM, B. G., Acting), Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	4-27-53	4-16-53	1779
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	4-1-53	4-2-53	1389
59. HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	4-1-53	4-1-53	1562
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	5-4-53	5-28-53	955
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	4-14-53	4-20-53	1916
63. WINKELSTEIN, A. H., Foods and Beverages; Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part).	3-23-53	3-20-53	2030
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	4-2-53	4-2-53	1826
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometric Instruments; Automatic Weighers; Weighing Scales; Acoustics	4-14-53	4-20-53	1156
67. KRAFFT, C. F., Laminated Fabric; Photographic Processes and Products; Ornamentation; Paper Making.	4-30-53	4-10-53	1719
68. Abolished as of November 2, 1953. See Commissioner's Administrative Order No. 44.			
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Electrical Conductors, Insulators and Conduits.	4-3-53	4-3-53	1672
70. BREWRINK, J. L., Guns and Torpedoes; Explosive Charge Making; Electrical Directional and Distance Instruments; Radio Antennae; Radar; Actinide Compounds; Explosive Compositions; Mass Spectrometers.	2-10-53	2-18-53	3749
DESIGNS: A—BREHM, G. L., Industrial Arts	7-6-53	7-9-53	1279
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	8-5-53	9-11-53	925

Number of new applications received week ending December 25, 1953

PATENTS 1,207 DESIGNS 83 REISSUES 3 TOTAL 1,293

Total number of trade-mark applications awaiting action (including renewals and republications), 12,560.
Date of oldest new application, August 1, 1953; date of oldest amended application, August 1, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	8-1-53	8-1-53	3041
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	8-1-53	8-1-53	3045
Renewals (All Classes)	10-16-53	11-25-53	488
Republications (All Classes)	10-26-53	12-1-53	213
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	8-3-53	8-3-53	2851
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	8-3-53	8-3-53	2922

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE ROBERT O. FERGUSON

No. 5944, No. 5945, No. 5986, No. 5987, No. 5988. Decided November 24, 1953

[— F.2d —; 100 USPQ 42]

PATENTABILITY—PARTICULAR SUBJECT MATTER—DESIGN FOR TRAFFIC SIGNAL.

Certain claims for designs for five traffic signals *Held* properly rejected as failing to differ inventively from the appellant's two previously patented designs.

APPEAL from the Patent Office, Serial No. D–4143, Serial No. D–4145, Serial No. D–8947, Serial No. D–8948, Serial No. D–8949.

AFFIRMED.

Mason, Mason & Sheridan (*John M. Mason* and *Philip H. Sheridan* of counsel) for Ferguson.

E. L. Reynolds (*S. W. Cochran* of counsel) for the Commissioner of Patents.

Before GARRETT, *Chief Judge*, and O'CONNELL, JOHNSON, WORLEY, and COLE, *Associate Judges*

O'CONNELL, *J.*, delivered the opinion of the court:

These are five appeals from the respective decisions of the Board of Appeals of the United States Patent Office affirming the decisions of the Primary Examiner rejecting appellant's five applications, in each of which he sought to obtain a design patent on an alleged improvement for a traffic signal at a street intersection.

Counsel for both sides and the basic principles of law involved in each appeal are the same, and while five separate records and sets of briefs have been filed here, we will dispose of the appeals in a single opinion.

The designs at bar in Appeals Nos. 5944 and 5945 were rejected by the Patent Office as unpatentable over the disclosure of the design patent issued February 3, 1948, to appellant, Ferguson, D–148,528 on the ground that such disclosure "substantially anticipated" the respective designs defined by those appealed claims.

The designs in Appeals Nos. 5986, 5987, and 5988 were rejected as "substantially anticipated" by, and unpatentable over, the disclosure of the design patent issued July 11, 1950 to appellant Ferguson, D–159,259.

The Patent Office further asserted that such differences as may be noted between the designs of the cited references and those defined by the appealed claims were insufficient to characterize the latter as patentably distinctive over the references.

The present statute providing for the granting of design patents, how they are to be obtained, and the regulations applicable thereto, 35 U. S. C. 171, reads as follows:

§ 171. Patents for designs

Whoever invents any new, original and ornamental design for an article of manufacture may obtain a patent therefor, subject to the conditions and requirements of this title.

The provisions of this title relating to patents for inventions shall apply to patents for designs, except as otherwise provided.

The designs embodied in the three applications of the appeals last described were originally disclosed by appellant in his application No. D–4147, filed July 26, 1949. In response to the Examiner's requirement for division, appellant elected to prosecute the said application, the single claim of which matured into patent D–159,259, hereinbefore described. Subsequently and on April 3, 1950, appellant filed each of the two remaining applications in issue as "a division" of the parent application, D–4147. The patent for the design granted on that application was employed by the Patent Office as the reference for the rejection of the respective designs embodied in the three divisional applications at bar.

In the application of Appeal No. 5944, appellant presents the following descriptive matter and claim:

I • • • have invented a new and original Design for a Traffic Signal, of which the following is a specification, reference being had to the accompanying drawing, forming part thereof, in which the figure is a perspective view of a traffic signal showing my new design.

The dominant features of the invention reside in the portions shown in full lines, and in particular the front face of the signal design.

I Claim:

The ornamental design for traffic signal, as shown and described.

In the application of Appeal No. 5986 appellant sets forth the following descriptive matter and claim:

I have invented a new and original Design for a Traffic Signal, of which the following is a specification, reference being had to the accompanying drawing, forming part thereof, and description of the figure is as follows:

The single drawing figure is a front perspective view of a traffic signal showing my new design.

The dominant features of my design reside in the portions shown in full lines, and in particular, the front face of the signal design. The back thereof is plain.

• • • • • • • •

I Claim:

The ornamental design for a traffic signal, as shown and described.

For the purpose of visual comparison, we reproduce herewith the accompanying designs shown in the drawings of the cited references, together with

Vol. 679 • No. 2 Tuesday, February 9, 1954 Price $30.00 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $30.00 per annum, foreign mailing $8.50 additional; single numbers, 75 cents each.

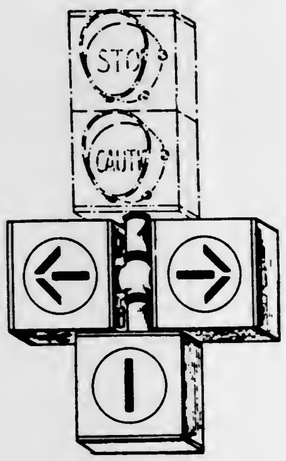
PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

The TRADE-MARK SUPPLEMENT to the OFFICIAL GAZETTE, issued weekly, subscription price, $19.00 per annum; single copies, 45 cents each. DECISION LEAFLETS, subscription price, $3.75 per year; single copies, 10 cents each.

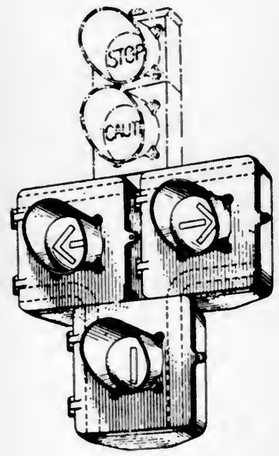
CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

one of the drawings shown in each of the two groups of appealed claims. These designs are reproduced as representative not only of the variation in the details of the designs in issue but also of the variation in the details of the designs of the respective references.

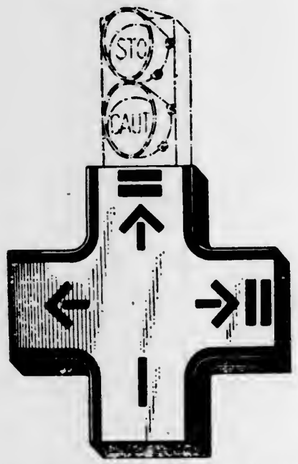
Appellant's Design, Appeal No. 5944



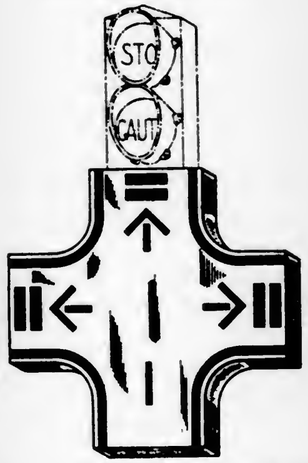
Reference: Patent to Ferguson D–148, 528



Appellant's Design, Appeal No. 5986



Reference: Patent to Ferguson D–159, 259



Appellant contends, among other things, that the Board erroneously rejected the designs of the appealed claims on the ground of double patenting, asserting that in each appeal there is but a slight variation between the cited references and the appealed designs. There is no doubt that the slight variation over the references in the designs shown in the appealed claims, if allowed as they now stand, would extend the life of the monopoly of the patented designs. *In re Warren*, 39 CCPA (Patents) 873, 194 F.2d 715, 93 USPQ 30; *In re Bigelow*, 39 CCPA (Patents) 835, 194 F.2d 550, 93 USPQ 17.

Moreover, appellant should have raised the point he now urges on the requirement for division, or "for restriction" as it is now designated in the Rules of Practice in the Patent Office, on the Examiner's requirement for division, as noted in the following excerpt from our recent decision in the case of *In re Coleman et al.*, 38 CCPA (Patents) 1156, 1164, 189 F.2d 976, 90 USPQ 100:

> The intermeshing doctrines of division and double patenting are not designed to be a mere trap for the unwary. The two questions are inextricably interwoven and the issues involved in a requirement of division cannot be disregarded where the rejection is on the ground of double patenting. If division would have been necessarily required in the first instance, then double patenting cannot be urged if the copending claims issue in separate patents. If, conversely, a rejection on the ground of double patenting is proper it is a necessary corollary that a requirement of division would have been improper.
>
> Where an applicant simultaneously files several applications in the considered belief that division would be required were only one application to be filed, we know of no rule of law which places a duty upon such applicant to attempt to incorporate all of the claims in one case. Where an applicant follows such a procedure and files one case, the question of division usually arises early in the prosecution and a decision is made which may be appealed through normal procedures to this court. Where the opposite course is followed the question of division, as such, does not arise, and the double patenting rejection usually is not urged until such time as some of the claims appear allowable. At that time the rejection is termed double patenting, but the issues are fundamentally the same as in the question of division, so that solution of these issues has not been avoided, but merely put off until a time when the decision will carry far more serious consequences to the applicant, since it may be too late to embody all the claims in one application. Such is the situation in this case.[1]

The stated doctrine of the *Coleman* case related to one of that class of cases provided for in the patent laws other than the statute relating to the granting of a patent for any new, original, and ornamental design for an article of manufacture, such as we have in the case at bar. Nevertheless, the stated rule applies directly to the situation presented in Appeals Nos. 5986, 5987, and 5988. See *Smith* v. *Whitman Saddle Company*, 148 U. S. 674, and footnote No. 1 in the case of *In re Bigelow*, 39 CCPA (Patents) 827, 829, 194 F.2d 545, 93 USPQ 14.

Appellant has emphasized throughout the prosecution of his applications in the Patent Office, and on his appeals here, the acknowleged utility of the designs in issue. Appellant through his inventions disclosed in the cited references has clearly made a valuable contribution to the art involved in providing a system of traffic signals. However, utility, and commercial success which appellant also urges here, cannot be a controlling factor under the facts presented by the records in these appeals. *In re Bigelow*, 39 CCPA (Patents) 835, 194 F.2d 550, 93 USPQ 17; *In re Miller*, 39 CCPA (Patents) 824, 194 F.2d 106, 92 USPQ 328. See also *Smith* v. *Whitman Saddle Company, supra*; *Forestek Plating and Mfg. Co.* v. *Knapp-Monarch Co.*, 106 F.2d 554.

We find no ground to question the soundness of the action of the tribunals of the Patent Office in the final rejection of the appealed claims, and, for the reasons hereinbefore stated, the respective decisions of the Board of Appeals, in all of the cases from which these appeals were taken, are affirmed.

AFFIRMED.

---

[1] The Solicitor for the Patent Office noted on oral argument that subsequent to the submission of the applications and decisions in the instant cases, the rules of the Patent Office were revised, and on the pertinent point in question now read:

141. *Different inventions in one application.* Two or more independent and distinct inventions may not be claimed in one application except that more than one species of an invention, not to exceed five, may be specifically claimed in different claims in one application, provided the application also includes an allowable claim generic to all the claimed species and all the claims to each species in excess of one are written in dependent form (Rule 75) or otherwise include all the limitations of the generic claim.

[Rule 41]

35 U. S. C. 121. *Divisional applications.* If two or more independent and distinct inventions are claimed in one application, the Commissioner may require the application to be restricted to one of the inventions. If the other invention is made the subject of divisional application which complies with the requirements of section 120 of this title it shall be entitled to the benefit of the filing date of the original application. A patent issuing on an application with respect to which a requirement for restriction under this section has been made, or on an application filed as a result of such a requirement, shall not be used as a reference either in the Patent Office or in the courts against a divisional application or against the original application or any patent issued on either of them, if the divisional application is filed before the issuance of the patent on the other application. If a divisional application is directed solely to subject matter described and claimed in the original application as filed, the Commissioner may dispense with signing and execution by the inventor. The validity of a patent shall not be questioned for failure of the Commissioner to require the application to be restricted to one invention.

142. *Requirement for restriction.* (a) If two or more independent and distinct inventions are claimed in a single application, the Examiner in his action shall require the applicant in his response to that action to elect that invention to which his claims shall be restricted, this official action being called a requirement for restriction (also known as a requirement for division). If the distinctness and independence of the inventions be clear, such requirement will be made before any action on the merits; however, it may be made at any time before final action in the case, at the discretion of the Examiner.

(b) Claims to the invention or inventions not elected, if not canceled, are nevertheless withdrawn from further consideration by the Examiner by the election, subject, however, to reinstatement in the event the requirement for division is withdrawn or overruled.

[Rule 42]

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,054,096, 2,224,984, Potts & McKee, Fatty acid distillation; 2,212,127, same, Process of fractionating fatty acids; 2,224,986, same, Fatty acid treatment, filed Mar. 22, 1951, D. C., N. D. Fla. (Marianna), Doc. 222, *Armour & Co.* v. *Arizona Chemical Co., Inc.* Stipulation for plaintiff, case dismissed Oct. 30, 1953.

2,118,468, T. G. Jungersen, Method of casting articles of intricate design and a product thereof, suit for declaratory judgment filed Aug. 7, 1951, D. C., S. D. N. Y., Doc. 68/349, *Thoger Gronborg Jungersen* v. *Robert Baden et al.* Order dismissing action for lack of prosecution Nov. 17, 1953.

2,212,127. (See 2,054,096.) 2,224,984. (See 2,054,096.)

2,224,986. (See 2,054,096.)

2,267,227, O. S. Williams, Tractor cab, filed Nov. 17, 1953, D. C., W. D. Mo. (Kansas City), Doc. 8838. *Original Tractor Cab Co., Inc., et al.* v. *Comfort Equipment Co.*

2,332,507, O. R. Dailey, Top, filed Nov. 16, 1953, D. C., S. D. N. Y., Doc. 89/183, *Dailey Top Co., Inc.* v. *Ajax Plastic Corp.*

2,475,809, H. H. Sullivan et al, Gas developing machine for photosensitive sheets having automatic gas delivery, filed Nov. 18, 1953, D. C. Del., Doc. 1571, *Paragon-Revolute Corp.* v. *The C F. Pease Co.*

2,566,287, L. H. Finneburgh, Jr., Television antenna system: 2,630,531, same, Television antenna; 2,655,599, same, All band television antenna, filed Nov. 16, 1953, D. C., N. D. Ill. (Chicago), Doc. 53C2255, *The Finney Co. et al.* v. *Mykroy, Inc.*

2,630,531. (See 2,566,287.) 2,655,599. (See 2,566,287.)

Des. 169,174, Des. 170,369, A. Philippe, Necklace; Des. 169,185, Des. 170,208, Des. 170,214, same, Brooch; Des. 170,210, same, Link chain for a bracelet; Des. 170,337, same, Earring, filed Oct. 13, 1953, D. C., N. D. Ill. (Chicago), Doc. 53C2034, *Trifari, Krussman & Fischel, Inc.* v. *Gaines & Gaines, Inc.* Consent judgment holding certain patents valid—defendants restrained Nov. 13, 1953.

Des. 169,185. (See Des. 169,174.)

Des. 170,208. (See Des. 169,174.)

Des. 170,210. (See Des. 169,174.)
Des. 170,214. (See Des. 169,174.)
Des. 170,337. (See Des. 169,174.)
Des. 170,369. (See Des. 169,174.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 69,900, T. M. 69,901, T. M. 74,186, T. M. 74,187, T. M. 155,081, T. M. 289,397, T. M. 424,852, The Singer Manufacturing Company, Manufacturing sewing-machines and attachments; T. M. 93,128, T. M. 236,080, same, Sewing-machine needles; T. M. 98,707, T. M. 433,685, T. M. 442,525, same, Lubricating oil; T. M. 106,688, same, All kinds of sewing-threads; T. M. 118,708, T. M. 118,709, T. M. 118,710, T. M. 118,711, same, Electric motors for sewing-machines and controllers therefor; T. M. 577,126, same, Services, filed Nov. 10, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 16027-BH, *The Singer Manufacturing Co. et al.* v. *Sewing Machine Exchange.*

T. M. 69,901. (See T. M. 69,900.)
T. M. 74,186. (See T. M. 69,900.)
T. M. 74,187. (See T. M. 69,900.)
T. M. 93,128. (See T. M. 69,900.)
T. M. 98,707. (See T. M. 69,900.)
T. M. 106,688. (See T. M. 69,900.)
T. M. 118,708. (See T. M. 69,900.)
T. M. 118,709. (See T. M. 69,900.)
T. M. 118,710. (See T. M. 69,900.)
T. M. 118,711. (See T. M. 69,900.)
T. M. 155,081. (See T. M. 69,900.)
T. M. 236,080. (See T. M. 69,900.)

T. M. 267,045, N. Fluegelman & Co., Inc., Piece goods, rayon, cotton, etc., filed June 5, 1952, D. C., S. D. N. Y., Doc. 76/146, *N. Fluegelman & Co., Inc.* v. *Layton-Blumenthal Co., Inc.* Stipulation and order of discontinuance (notice Nov. 17, 1953).

T. M. 278,756, T. M. 417,642, Atkins & Durbrow, Inc., Combination fertilizer and soil conditioner, filed Nov. 17, 1953, D. C., S. D. N. Y., Doc. 89/201, *Atkins & Durbrow, Inc.* v. *Dry-Manure Corp.*

T. M. 289,397. (See T. M. 69,900.)
T. M. 417,642. (See T. M. 278,756.)
T. M. 424,852. (See T. M. 69,900.)
T. M. 433,685. (See T. M. 69,900.)
T. M. 442,525. (See T. M. 69,900.)
T. M. 577,126. (See T. M. 69,900.)

NOTICES

Disclaimers

2,486,252.—*Arthur J. Briggs*, Syracuse, N. Y. MACHINE FOR FORMING AND APPLYING HOOD CAPS TO BOTTLES. Patent dated Oct. 25, 1949. Disclaimer filed Dec. 28, 1953, by the assignee, *William L. Hinds.*

Hereby enters this disclaimer to claims 1 to 7, inclusive, of said patent.

2,364,776.—*Arthur J. Briggs*, Syracuse, N. Y. MACHINE FOR APPLYING HOOD CAPS TO BOTTLES. Patent dated Dec. 12, 1944. Disclaimer filed Dec. 28, 1953, by the assignee, *William L. Hinds.*

Hereby enters this disclaimer to claims 1 to 6, inclusive, of said patent.

2,609,787.—*Raymond H. Lawson*, Algonquin, Ill. RURAL MAILBOX SIGNAL MEANS. Patent dated Sept. 9, 1952. Disclaimer filed Jan. 5, 1954, by the inventor.

Hereby enters this disclaimer to claim 2 of said patent.

Cancellation Notice

[6110]

Fred R. Wilkin, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Advance Glove Manufacturing Co., 901 West Lafayette Boulevard, Detroit 26, Michigan, to effect the cancellation of trade-mark registration of Fred R. Wilkin, 2929 South Cicero Avenue, Cicero, Illinois; No. 361,885, dated July 11, 1938, and the notice of such proceeding sent by registered mail to the said Fred R. Wilkin, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Fred R. Wilkin, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Jan. 26.)

DAPHNE LEEDS,
Jan. 5, 1954. *Assistant Commissioner of Patents.*

Erratum

All references to Patent No. 2,667,444 to David M. Updegraff and Hubert H. Chase for Petroleum Prospecting Method appearing in the OFFICIAL GAZETTE of January 26, 1954, should be deleted as the application was withdrawn from issue and the patent was not issued.

Classification Order No. 157

December 30, 1953

The following changes in the classification of inventions are hereby directed to take effect immediately:

ESTABLISH CLASS

203—LONGITUDINAL FEEDING OF RUNNING OR INDEFINITE LENGTHS (Division 4)

(S. M. NEWMAN and I. J. ROTKIN, *Classifiers*)

Note.—The subclass schedule, definitions of the above class, and complete Classification Order No. 157 will appear in Bulletin No. 416.

IN THE MANUAL OF CLASSIFICATION:

ABOLISH SUBCLASSES

In *Class 28, Textiles* (Division 21)

Apparatus
71.5 Strand feeding
71.6 Cage type
71.7 Cantilever

In *Class 29, Metal Working* (Division 13)

Plural diverse manufacturing apparatus including metal shaping and/or assembly
58 Stock and blank feeders
59 Advancing stock support
60 Magazine
61 Reciprocating gripper
62 Sleeve
63 Roller

In *Class 140, Wirecorking* (Division 14)

125 **Feeding (rod, tube, or wire)**
126 Automatic stop
126.1 With lateral shift into axial feed position
126.2 With rotation
127 Drum
128 Tangential contact
128.1 End face pusher
128.2 Fluid pressure actuation
129 Intermittent
130 Oscillating clamp
130.1 Canted sleeve
130.2 Canted gripper
131 Recessed roller
132 Short lengths
133 **Tension devices**
134 Equalizers
135 Friction clamp
136 Friction roller
137 Tortuous course
138 Adjustable

In *Class 254, Pushing and Pulling Implements* (Division 61)

Cable
Drum
176 Cable driving
177 Multiple

ESTABLISH SUBCLASSES

In *Class 29, Metal Working* (Division 13)

(S. M. NEWMAN and I. J. ROTKIN, *Classifiers*)

92 **Stock lead end pullers** (to follow subclass 90.5)
93 **Stock end face pushers**

In *Class 254, Pushing and Pulling Implements* (Division 61)

(S. M. NEWMAN and I. J. ROTKIN, *Classifiers*)

Cable
Drum
175.3 Endless cable driving (to follow subclass 175)
175.5 Cable driving to and/or from storage
175.6 On conveyor
175.7 On windlass or winch

CLASSES ARRANGED BY DIVISION

In Division 4 add:

203—LONGITUDINAL FEEDING OF RUNNING OR INDEFINITE LENGTHS

CLASSES ARRANGED IN ALPHABETICAL ORDER

After "70, Locks," insert:

203—LONGITUDINAL FEEDING OF RUNNING OR INDEFINITE LENGTHS 4

CLASSES ARRANGED IN NUMERICAL ORDER

Delete "203, No Class" and substitute:

203—LONGITUDINAL FEEDING OF RUNNING OR INDEFINITE LENGTHS 4

PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

Abolished		Disposition	
Class	*Subclass*	*Class*	*Subclass*
28	71.5–71.7	203	Various, esp. 180+
29	58, 59		Various
	60	10	162+
	61–63	203	Various
140	125		Various
	126		12+
	126.1	10	162+
	126.2	203	75
	127		300+
	128		210+
	128.1, 128.2	29	93
	129	203	110+
	130	203	150+
	130.1, 130.2	279	Various
	131	203	138+
	132	10	162+
	133, 134	242	147+
	135	242	149
	136		151
	137		153
	138		154
254	176	254	175.3, 175.5+
	177	203	Various

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Source	
Class	*Subclass*	*Class*	*Subclass*
29	92, 93	29	58+
		140	125+
203	20	28	71.5+
		140	128
	65+	28	71.5+
	70	29	58+
	80, 100	28	71.5+
	115+	29	58+
		140	125+
	180+	28	71.5+
	270–290, 310–399	28	71.5+
		254	176+
	1–15, 18, 25–60, 75, 77, 85–92, 110, 135–170, 200+, 300, 305	28	71.5+
		29	58+
		140	125+, 133+
		214	1
		254	176+
254	175.3, 175.5+	28	71.5+
		254	176+

SUBCLASS SCHEDULE

Class 203, Longitudinal Feeding of Running or Indefinite Lengths

(Original Classification S. M. NEWMAN, I. J. ROTKIN, 1953
Definitions in Bulletin No. 416)

1 **Processes**
10 **With power-stop for machine fed**
12 **Automatic control**
15 Overload feed release
18 By stock-stop
20 **Serial independently variable feeds, intermediate storage means**
25 **Carriage mounted feeder**
30 **With waste end ejector**
35 **With stock-stop**
40 **Longitudinally repetitively varying material surface**
42 Helices
44 Concatenated elements
45 **Reversible feed**
50 **Parallel alternate feed path**
55 **Continuous feed from serial sequentially operated feeders**
60 **Shiftable part allowing hand loading**
65 **Threading devices**
67 Manually initiated
70 **Auxiliary guide-gripper**
75 **Material rotated by feeder**
77 Planetary output brake actuates feeder
80 **With seal for material contacting fluid**
85 **With alarm, signal or indicator**
90 **Convertible**
92 **Combined**
100 **By fluid**
110 **Intermittent**
115 With retrograde motion prevention
118 And manual override of cyclic feeder
121 And manual feed cycle initiator
123 Manual feed
125 By one of plural, relatively moved, material holders
127 Two holders positively actuated
129 Two holders self-energized
131 By statically mounted friction drag
135 Rotary pinch members
138 Recessed rolls
140 Variable periphery
142 By roll separation
146 Plural parallel material feed paths
150 Reciprocating gripper support, one way grip
153 Cyclical unequal feeds
156 Arcuate support path for grip
159 Feed mechanism lost motion closes grip
162 Spring return
166 With means to disable grip
170 **Translating gripper support**
180 **Interdigitated composite rotating surface**
183 Rigid cages
186 Elements pivot on axis parallel to rotating axis
189 Radially moving elements
200 **Plural rotating material feeding surfaces**
205 Between radial surfaces
210 Contacting rotary pinch members
220 Peripheral contact path
225 Endless pinch member
227 Plural cooperating
230 For plural lengths of material
235 Tapered bite
240 Tapered rolls
250 Adjustable feed path
255 With member carried clamp

Plural rotating material feeding surfaces—Continued.
Contacting rotary pinch members—Con.
260 With adjustable bite
263 Resiliently urged together
270 Planetating, run contacting
275 With helical guides
280 Single run contacting
290 Cantilever
300 **With material clamp**
305 Endless conveyor
310 **Endless web or chain feeding surface**
315 Plural run
320 **With lateral material traversers**
322 Incoming contactor or pusher
324 Endless band surface
327 By moving rotating surface axially
330 **Radial moving surface part**
340 **With material guide, bit, or spacer**
355 **With whelps or work contacting elements**
370 **With wear compensation**
385 **With drive**
399 **Miscellaneous**

M. C. ROSA,
Executive Examiner.

Classification Order No. 158

The following transfers are hereby directed to take effect on Monday, January 11, 1954:

From Division 26 to Division 4
Class 187, Elevators
Subs. 1 thru 28 and 30 thru 98

From Division 22 to Division 70
Class 244, Aeronautics
Subclass 77

From Division 70 to Division 51
Class 250, Radiant Energy
Subclass 37

From Division 51 to Division 48
Class 250, Radiant Energy
Subclass 39

From Division 26 to Division 70
Class 318, Electricity, Motive Power Systems
Subclass 489

From Division 48 to Division 69
Class 324, Electricity, Measuring and Testing
Subclass 76

Jan. 4, 1954.

M. C. ROSA,
Executive Examiner.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Medicinal preparation. Serial No. 651,880, Feb. 9. Class 18.

Abbott Laboratories, North Chicago, Ill. Lace-mesh surgical dressing. Serial No. 652,090, Feb. 9. Class 44.

Acceptance Finance Company, St. Louis, Mo. Making personal loans, co-maker loans, automobile loans, etc. Serial No. 635,164, Feb. 9. Class 102.

Aceto Chemical Company, Inc., New York, N. Y. Emulsifying wax. Serial No. 644,817, Feb. 9. Class 6.

Addressograph-Multigraph Corporation, Cleveland, Ohio. Lubricating oil. Serial No. 651,313, Feb. 9. Class 15.

Adjus To Crete, Modesto, Calif. Concrete deck and wall cans or forms. Serial No. 642,924, Feb. 9. Class 12.

Air Reduction Company, Incorporated, New York, N. Y. Filters for pipe lines, inlet filters for manifolds and bursting disc assemblies. Serial No. 650,673, Feb. 9. Class 31.

Air Reduction Company, Incorporated, New York, N. Y. Oxyacetylene welding and cutting apparatus; torches or blowpipes, etc. Serial No. 650,674, Feb. 9. Class 34.

Alamo Manufacturing Co. Inc., New York, N. Y. Cotton dresses. Serial No. 637,229, Feb. 9. Class 39.

Alexander, R. E., & Son, Wylie, Tex. Sacked whole raw onions. Serial No. 637,530, Feb. 9. Class 46.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Material comminuting machinery. Serial No. 635,619, Feb. 9. Class 23.

American Association of Nurserymen, Inc., Washington, D. C. Landscape designing, transplanting, planting of shrubs, etc. Serial No. 643,810, Feb. 9. Class 100.

American Chemical Paint Company, Ambler, Pa. Chemical preparations. Serial No. 643,022, Feb. 9. Class 6.

American Chick Sexing Association: *See*—
Nitta, S. John.

American Cyanamid Company, New York, N. Y. Paper size. Serial No. 642,590, Feb. 9. Class 6.

American Cyanamid Company, New York, N. Y. Synthetic resin. Serial No. 644,485, Feb. 9. Class 6.

American Fiber-Velope Mfg. Co., Philadelphia, Pa. Expanding envelopes and file folders, file folders, etc. Serial No. 624,624, Feb. 9. Class 37.

American Hard Rubber Company, Hempstead and New York, N. Y. Pail for containing acids. Serial No. 613,797, Feb. 9. Class 2.

American White Cross Laboratories, Inc., The, New Rochelle, N. Y. Surgical dressings, adhesive plasters, adhesive bandage, etc. Serial No. 613,317, Feb. 9. Class 44.

Anchor-Blit Products, Inc., Brooklyn, N. Y. Scalloped, carved, and decorative lumber and scalloped, carved, and decorative plywood. Serial No. 644,380, Feb. 9. Class 12.

Anderson Company, The, Gary, Ind. Windshield wiper motors. Serial No. 589,945, Feb. 9. Class 19.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Toilet powder. Serial No. 643,935, Feb. 9. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Compressible, dispensing bottles. Serial No. 647,469, Feb. 9. Class 2.

Arkell and Smiths, Canajoharie, N. Y. Paper bags. Serial No. 624,923, Feb. 9. Class 2.

Armour and Company, doing business under the trade style Armour Fertilizer Works, Chicago, Ill. Fertilizers. Serial No 642,599, Feb. 9. Class 10.

Armour Fertilizer Works: *See*—
Armour and Company.

Arrow-Products, Cleburne, Tex. Hand cleaner creme. Serial No. 631,972, Feb. 9. Class 51.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Ingredients comprising a modified epoxy resin and a catalyst for making a resin coating. Serial No. 652,157, Feb. 9. Class 16.

Atlas Supply Company, Newark, N. J. Cloths for use in applying cleaners, waxes, etc. Serial No. 653,346, Feb. 9. Class 29.

B. & B. Enterprises, Inc., Chicago, Ill. Raw popcorn, popping oil, and chocolate covered popcorn. Serial No. 650,412, Feb. 9. Class 46.

B & J Distributing Co.: *See*—
Brazelton, Harold J.

Babcock & Wilcox Company, The, New York, N. Y. Filamented refractory clay. Serial No. 641,366, Feb. 9. Class 12.

Bailey, Joe W., doing business under the name Bailey Laboratories, Buffalo, N. Y. Preparation for setting the hair, conditioning the scalp, and treatment of dandruff. Serial No. 639,916, Feb. 9. Class 51.

Bailey Laboratories: *See*—
Bailey, Joe W.

Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y. Men's hosiery and more particularly socks. Serial No. 640,424, Feb. 9. Class 39.

Battistoni, Romeo, doing business under the name and title Italian and French Wine Co., Buffalo, N. Y. Still wines. Serial No. 634,824, Feb. 9. Class 47.

Battistoni, Romeo, doing business under the name and title Italian and French Wine Co., Buffalo, N. Y. Whiskey, gin, and brandy. Serial No. 634,825, Feb. 9. Class 49.

Battle Creek Equipment Company, Battle Creek, Mich. Therapeutic exercising machine. Serial No. 628,803, Feb. 9. Class 44.

Behr-Manning Corporation, Troy, N. Y. Flexible and inflexible abrasives. Serial No. 646,260, Feb. 9. Class 4.

Berje Chemical Products, Inc., New York, N. Y. Food seasoning powder. Serial No. 648,583, Feb. 9. Class 46.

Bermingham & Prosser Company, also doing business as Processed Papers, Chicago, Ill. Practice paper, tracing paper, and tagboard. Serial No. 648,363, Feb. 9. Class 37.

Bermingham & Prosser Company, Chicago, Ill. Notebook filler paper. Serial No. 649,112, Feb. 9. Class 37.

Bermingham & Prosser Company, Chicago, Ill. Pencil tablets. Serial No. 649,345, Feb. 9. Class 37.

Bernard-Moteurs, S. A., Paris, France. Wheel and crawler type tractors and parts thereof, fans and radiators, etc. Serial No. 627,304, Feb. 9. Class 23.

Beryllium Corporation, The, Reading, Pa. Beryllium-copper alloys. Serial No. 650,772, Feb. 9. Class 14.

Besser Metal Products Corporation, Charlotte, N. C. Oil fired furnaces. Serial No. 650,971, Feb. 9. Class 34.

Better Packages, Incorporated, Shelton, Conn. Tape dispensers. Serial No. 635,678, Feb. 9. Class 2.

Betterly, Warren A., doing business as M. A. E. Co., Fall River, Mass. General all-purpose cleaner. Serial No. 646,597, Feb. 9. Class 52.

Binky Baby Products Co.: *See*—
Eagle Druggists Supply Co. Inc.

Bisbee, J. G., Tehachapi, Calif. Fresh deciduous fruits. Serial No. 652,598, Feb. 9. Class 46.

Blue Anchor Beverage Company, Philadelphia, Pa. Maltless soft drinks and carbonated waters. Serial Nos. 643,138–9, Feb. 9. Class 45.

Bobbish Industrial Products Co., Detroit, Mich. High temperature grease. Serial No. 647,146, Feb. 9. Class 15.

Bobbish Industrial Products Co., Detroit, Mich. Lubricant. Serial No. 647,147, Feb. 9. Class 15.

Bonafide Mills, Inc., Winthrop, Maine, and New York, N. Y. Felt base, linoleum, composition, and plastic wall covering. Serial No. 640,429, Feb. 9. Class 20.

Brazelton, Harold J., doing business as B & J Distributing Co., Chicago, Ill. Ear plugs. Serial No. 649,282, Feb. 9. Class 44.

Brown-Vaughan Co., San Francisco, Calif. Package containing a medicated foot powder and medicated corn plasters. Serial No. 642,938, Feb. 9. Class 18.

Burkhardt-Warner Industries, Holyoke, Mass. Partially printed children's behavior charts. Serial No. 640,668, Feb. 9. Class 37.

Burrus Mills, Incorporated, doing business under the name and style of Liberty Mills, San Antonio, Tex. Feed. Serial No. 648,585, Feb. 9. Class 46.

California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Insecticides and fungicides. Serial No. 649,765, Feb. 9. Class 6.

Campbell Chain Company, York, Pa. Self-closing repair links. Serial No. 650,777, Feb. 9. Class 13.

Canada Dry Ginger Ale, Incorporated, New York, N. Y. Maltless soft drinks. Serial No. 648,912, Feb. 9. Class 45.

Car-Blair Ltd., New York, N. Y. Vinyl plastic coveralls. Serial No. 650,488, Feb. 9. Class 39.

Car Care Club, Inc., Philadelphia, Pa. Maintenance and repair of automotive equipment. Serial No. 643,404, Feb. 9. Class 103.

Car Care Club, Inc., Philadelphia, Pa. Maintenance and repair of automotive equipment. Serial No. 643,524, Feb. 9. Class 103.

Carl-Morris Mfg. Inc., Boston, Mass. Waist band overalls or dungarees. Serial No. 617,744, Feb. 9. Class 39.

Carolina Mop Manufacturing Co., Anderson, S. C. Floor mops. Serial No. 648,482, Feb. 9. Class 29.

Carriage Trade Modern, New York, N. Y. Certain articles of children's and adults' furniture. Serial No. 648,531, Feb. 9. Class 32.

Cee-Bee Chemical Co., Inc., Los Angeles, Calif. Aircraft surface cleaner, steam cleaning machine compound, etc. Serial No. 629,837, Feb. 9. Class 52.

Cerophyl Laboratories, Inc., Kansas City, Mo. Chlorophyll derivatives for use as a feed supplement. Serial No. 634,236, Feb. 9. Class 46.

Chase Chemical Company, Newark, N. J. Geriatric vitamins and lipotropics. Serial No. 652,099, Feb. 9. Class 18.

Chase Chemical Company, Newark, N. J. Nasal decongestant. Serial No. 652,101, Feb. 9. Class 18.
Chase Chemical Company, Newark, N. J. High potency therapeutic vitamins. Serial No. 652,102, Feb. 9. Class 18.
Chemagro Corporation, New York, N. Y. Agricultural bactericides and fungicides. Serial No. 616,382, Feb. 9. Class 6.
Chemical Paper Manufacturing Company, Holyoke, Mass. Cover paper. Serial No. 648,587 Feb. 9. Class 37.
Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Pharmaceutical preparation. Serial No. 630,878, Feb. 9. Class 18.
Claster, Bertram H., Baltimore, Md. Advertising the goods and services of sponsors through the medium of a television program. Serial No. 644,223, Feb. 9. Class 101.
Clyde Chemical Co., Phenix, R. I. Detergent. Serial No. 644,601, Feb. 9. Class 52.
Cochran Foil Company, doing business as Cochran Foil Products Co., Louisville, Ky. Aluminum plates. Serial No. 643,207, Feb. 9. Class 13.
Cochran Foil Products Co.: *See*—
Cochran Foil Company.
Collins Chemical Co. Inc., New York, N. Y. Flavoring preparations. Serial No. 616,201, Feb. 9. Class 46.
Colson, U. O., Company, Paris, Ill. Advertising services. Serial No. 600,932, Feb. 9. Class 101.
Columbus Wholesale Barber & Beauty Supply Co., Inc., doing business as Eudora Products Company, Columbus, Ohio. Medicinal preparations. Serial No. 647,910, Feb. 9. Class 18.
Combined Chemicals Corporation, New York, N. Y. Hair shampoo. Serial No. 649,871, Feb. 9. Class 52.
Computer Research Corporation of California, Hawthorne, Calif. Electronic digital computers and parts and equipment therefor. Serial No. 634,633, Feb. 9. Class 26.
Consolidated Cooling Corporation, San Francisco, Calif. Pre-cooling fresh fruits and vegetables. Serial No. 647,163, Feb. 9. Class 106.
Consolidated Oil Company: *See*—
Yoshida, Toshio.
Consolidated Trimming Corporation, New York, N. Y. Pleating tape. Serial No. 621,755, Feb. 9. Class 40.
Contreras, Waldo L., doing business under the name and style of Tico Taco Mexican Food Products Co., Scottsdale, Ariz. Mexican food: tacos. Serial No. 609,964, Feb. 9. Class 46.
Coro, Inc., New York, N. Y. Jewelry. Serial No. 612,445, Feb. 9. Class 28.
Cortland Line Company, Inc., Cortland, N. Y. Silk fish lines. Serial No. 641,436, Feb. 9. Class 22.
Cowan, Louis G., Incorporated, New York, N. Y. Entertainment service in the nature of a radio and television panel-quiz program. Serial No. 627,931, Feb. 9. Class 107.
Crescent Dental Mfg. Co., Chicago, Ill. Dental broaches. Serial No. 648,461, Feb. 9. Class 44.
Cresta Blanca Wine Company: *See*—
Schenley Industries, Inc.
Crowell Corporation, The, Yorklyn, Del. Gummed tape. Serial No. 649,485, Feb. 9. Class 5.
Cuban Cordage & Rope Co., S. A., Guanajay Cabanas, Cuba. Baler twine. Serial No. 649,571, Feb. 9. Class 7.
Day, B. E., Packing Co., Salinas, Calif. Fresh vegetables. Serial No. 646,464, Feb. 9. Class 46.
Delagar Products, Inc., New York, N. Y. Nail polish remover. Serial No. 646,276, Feb. 9. Class 51.
Desmond-Stephan Mfg. Co., The, Urbana, Ohio. Grinding wheel dressers. Serial No. 643,209, Feb. 9. Class 23.
Deutsche Torfhandelsgesellschaft, Bremen, Germany. Peat moss, poultry litter. Serial No. 647,269, Feb. 9. Class 1.
Dexter Chemical Corporation, New York, N. Y. Surface active agents, radioactive compounds, and polyhydric alcohols. Serial No. 649,487, Feb. 9. Class 6.
Dida Company, The: *See*—
Rolfs, David J.
Dijk Brand American Corp., New York, N. Y. Cocoa and chocolate, biscuits, jams, etc. Serial No. 632,200, Feb. 9. Class 46.
Dolge, C. B., Company, The, Westport, Conn. Synthetic detergent. Serial No. 641,129, Feb. 9. Class 52.
Dolge, C. B., Company, The, Westport, Conn. Household deodorant. Serial No. 646,928, Feb. 9. Class 6.
Douglas Fir Plywood Association, Tacoma, Wash. Plywood. Serial No. 641,609, Feb. 9. Class 12.
Dow Chemical Company, The, Midland, Mich. Permanent-type antifreeze composition. Serial No. 649,692, Feb. 9. Class 6.
Dowell Incorporated, Tulsa, Okla. Well treating services—namely, combined plugging and fracturing of earth formations. Serial No. 643,665, Feb. 9. Class 103.
Drackett Company, The, assignee: *See*—
Twinkle Polish Corporation.
Drew, E. F., & Co., Inc., New York, N. Y. Liquid detergent. Serial No. 649,636, Feb. 9. Class 52.
Dubonnet Wine Corporation, New York, N. Y. Aperitif wine. Serial No. 608,241, Feb. 9. Class 47.
Dupli-Color Products Co., Inc., Chicago, Ill. Fountain brush applicator. Serial No. 649,290, Feb. 9. Class 29.
Dusorb Sales Corporation, Shenandoah, Iowa. Cleaning fluid. Serial No. 649,873, Feb. 9. Class 52.
E. A. F. Research Developments: *See*—
Ferguson, Edgar A., Jr.
Eagle Druggists Supply Co. Inc., also doing business under the name of Binky Baby Products Co., New York, N. Y. Water cooled baby teether and soother. Serial No. 636,215, Feb. 9. Class 44.
Eggo Food Products, Inc., San Jose, Calif. Frozen waffles. Serial No. 641,413, Feb. 9. Class 46.
Elgin Softener Corporation, Elgin, Ill. Water softening and de-mineralizing apparatus. Serial Nos. 601,607–8, Feb. 9. Class 31.
Ellena Brothers, Etiwanda, Calif. Wines. Serial No. 651,164, Feb. 9. Class 47.
Ellis Importing Co., Philadelphia, Pa. Coffee. Serial No. 636,846, Feb. 9. Class 46.
Emery Industries, Inc., Cincinnati, Ohio. Sizing material for silk and cotton fabrics. Serial No. 650,098, Feb. 9. Class 6.
Empire State Flour Co.: *See*—
Kirsh, Joseph.
Epstein, Harry T., doing business as Proven Paper Manufacturing Company, Boston, Mass. Paper butter plates. Serial No. 651,698, Feb. 9. Class 2.
Eudora Products Company: *See*—
Columbus Wholesale Barber & Beauty Supply Co., Inc.
European Coast Chemical House: *See*—
Wong, Howard.
Evans Case Co., North Attleboro, Mass. Compacts having powder therein. Serial No. 609,441, Feb. 9. Class 51.
Fabergé, Inc., New York, N. Y. Soap. Serial No. 638,412, Feb. 9. Class 52.
Fade-Proof Corporation of America, Chicago, Ill. Chemical solution. Serial No. 635,128, Feb. 9. Class 6.
Fair, The, Chicago, Ill. Slacks. Serial No. 536,362, Feb. 9. Class 39.
Ferguson, Edgar A., Jr., doing business as E. A. F. Research Developments, Brooklyn, N. Y. Appetite satient compositions. Serial No. 634,976, Feb. 9. Class 18.
Ferris Corp., New York, N. Y. Liquid chemical compound. Serial No. 633,930, Feb. 9. Class 6.
Field, George A., doing business as Northwest Type Foundry, Minneapolis, Minn. Printing type. Serial No. 625,793, Feb. 9. Class 14.
Fine Foods, Inc., Seattle, Wash., and Minneapolis, Minn. Oleomargarine. Serial No. 635,178, Feb. 9. Class 46.
Fink, F. J., & Co.: *See*—
Fink, Frank J.
Fink, Frank J., doing business as F. J. Fink & Co., Cleveland, Ohio. Power operated cutting machines. Serial No. 646,998, Feb. 9. Class 23.
Flavor Corporation of America, Chicago, Ill. Concentrated fruit flavorings, liquid and dry food coloring, etc. Serial No. 637,649, Feb. 9. Class 46.
Flo-Bell, Inc., Yonkers, N. Y. Cup-shaped appliance to be used for treating mastitis in animals. Serial No. 651,044, Feb. 9. Class 44.
Food Products Corporation, Kansas City, Mo. Ingredients for enriching bread, rolls and buns. Serial No. 644,025, Feb. 9. Class 46.
Ford Motor Company Limited, London, England. Dynamos and parts thereof, electricity generators, etc. Serial No. 651,558, Feb. 9. Class 21.
Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper towels, paper napkins and facial tissue. Serial No. 640,507, Feb. 9. Class 37.
Foster Trading Corporation, The, doing business as T. W. Samuels Distillery, Deatsville, Ky. Bourbon whiskey. Serial No. 633,976, Feb. 9. Class 49.
Fouts, Robert J., doing business under the firm name and style of Mohora Products, Calistoga, Calif. Potting mixture. Serial No. 645,889, Feb. 9. Class 10.
Francis, A. W., Company, Somerset, Pa. Hose nozzles. Serial No. 650,987, Feb. 9. Class 13.
Frazar & Company Inc., New York, N. Y. Canned crab meat. Serial No. 649,142, Feb. 9. Class 46.
Frezzati, Eugene, Paris (Seine), France. Perfumes. Serial No. 645,795, Feb. 9. Class 51.
Fruit-O-Matic Manufacturing Company: *See*—
Kold Krisp Apple Service.
Fulton Bag and Cotton Mills, Atlanta, Ga. Cotton and burlap bags. Serial No. 631,795, Feb. 9. Class 2.
Fulton Bag and Cotton Mills, Atlanta, Ga. Cotton and burlap bags. Serial No. 631,797, Feb. 9. Class 2.
G R Company: *See*—
Gossner, Louis E. E.
Geigy Company, Inc., New York, N. Y. Pharmaceutical preparations. Serial No. 651,327, Feb. 9. Class 18.
Geigy Company, Inc., New York, N. Y. Pharmaceutical preparation. Serial No. 651,328, Feb. 9. Class 18.
Gem Oil Tool Co. Inc., Lafayette, La. Oil well tubing centralizers and pipe lifters. Serial No. 617,538, Feb. 9. Class 23.
General Aniline & Film Corporation, New York, N. Y. Polymerizable organic chemical compounds and compositions. Serial No. 650,047, Feb. 9. Class 6.
General Gummed Products, Inc., Richmond Hill, N. Y. Gummed paper tape and gummed cloth tape. Serial Nos. 647,069–71, Feb. 9. Class 5.
General Metalware Company, Minneapolis, Minn. Metal pail. Serial No. 651,448, Feb. 9. Class 2.
George Umbrella Co. Inc., New York, N. Y. Umbrellas. Serial No. 637,851, Feb. 9. Class 41.

Geriatric Pharmaceutical Corp., Bellerose, N. Y. Pharmaceutical preparation. Serial Nos. 649,877–8, Feb. 9. Class 18.
Giffin, John W., doing business as Giffin Manufacturing Company, Wichita, Kans. Tools. Serial No. 646,757, Feb. 9. Class 23.
Giffin Manufacturing Company: *See*—
Giffin, John W.
Giles, C., & Co.: *See*—
Messer, William S.
Gilman Paint and Varnish Company, Chattanooga, Tenn. Interior wall paint. Serial No. 620,421, Feb. 9. Class 16.
Giuriani, A., & Bro., San Francisco, Calif. Olive oil, canned vegetables, olives, etc. Serial No. 650,365, Feb. 9. Class 46.
Glade Candy Co., Salt Lake City, Utah. Chocolates. Serial No. 647,616, Feb. 9. Class 46.
Glass Laboratories, Inc., Brooklyn, N. Y. Metalized plastic strips. Serial No. 647,181, Feb. 9. Class 12.
Globe Siding Products Company, Whiting, Ind. Mineral-surfaced asphalt saturated felt shingles. Serial No. 613,002, Feb. 9. Class 12.
Goodman & Suss Clothes Corporation, New York, N. Y. Men's and young men's top coats, sport coats, and overcoats. Serial No. 653,194, Feb. 9. Class 39.
Goodman, William Z., doing business under the name of William Zachary Company, Newton Centre, Mass. Hand cream. Serial No. 624,084, Feb. 9. Class 51.
Goodwill Industries of America, Inc., Washington, D. C. Philanthropic services rendered to handicapped persons, etc. Serial Nos. 623,759–60, Feb. 9. Class 100.
Gordon Cartons, Inc., Baltimore, Md. Paper cartons. Serial Nos. 629,242, Feb. 9. Class 2.
Gossner, Louis E. E., doing business as the G R Company, San Francisco, Calif. Men's, women's, and children's weatherproof jackets and coats, fishermen's waders and wading suits, etc. Serial No. 601,142, Feb. 9. Class 39.
Greenbros, Inc., Cincinnati, Ohio. Alcoholic blackberry cordial. Serial No. 641,678, Feb. 9. Class 49.
Greyvan Lines, Inc., Chicago, Ill. Boxes and containers. Serial No. 519,654, Feb. 9. Class 2.
Gulf Food Products Co., New Orleans, La. Frozen fresh shrimp, wet pack shrimp, and dry shrimp. Serial No. 630,930, Feb. 9. Class 46.
Hardinge Company, Incorporated, York, Pa. Ball and pebble mills. Serial Nos. 647,774–5, Feb. 9. Class 23.
Harlee Manufacturing Company, Chicago, Ill. Ice milk preparation. Serial No. 601,787, Feb. 9. Class 46.
Hartmeister Sales Company, Denver, Colo. Trailer hitches. Serial No. 638,144, Feb. 9. Class 19.
Harvey, John, & Sons, Ltd., Bristol, England. Sherry and port wines. Serial No. 583,788, Feb. 9. Class 47.
Hathaway Instrument Company, Denver, Colo. Electric blood pressure heads. Serial No. 647,776, Feb. 9. Class 44.
Hawthorn-Mellody Farms Dairy, Inc., Chicago, Ill. Frozen custard. Serial No. 630,327, Feb. 9. Class 46.
Heel-Ins, Inc., St. Albans, Vt. Pair of metal plates functioning as a battery to be inserted in shoes for the purpose of relieving the pains of arthritis, etc. Serial No. 642,350, Feb. 9. Class 44.
Heim, Jacques, Paris, France. Perfume, cologne, toilet water, etc. Serial No. 647,005, Feb. 9. Class 51.
Helper Paint Removing Service, Inc., Cleveland, Ohio. Paint removing compounds. Serial No. 636,594, Feb. 9. Class 52.
Hepburn & Ross Limited, Kelvinbridge, Glasgow, Scotland. Scotch whiskey. Serial No. 645,891, Feb. 9. Class 49.
Herter's, Inc., Waseca, Minn. Chokes for shotguns. Serial No. 635,264, Feb. 9. Class 9.
Hill Laboratories Co., Malvern, Frazer, Pa. Massaging apparatus. Serial No. 643,321, Feb. 9. Class 44.
Hill Laboratories Co., Malvern, Frazer, Pa. Therapeutic heat treatment machines. Serial No. 643,322, Feb. 9. Class 44.
Hinde & Dauch Paper Company, The, Sandusky, Ohio. Paperboard boxes and cartons. Serial No. 642,639, Feb. 9. Class 2.
Hirschman, J. C., Company, The, Indianapolis, Ind. Bed mattresses. Serial No. 642,469, Feb. 9. Class 32.
Hirschman, J. C., Company, The, Indianapolis, Ind. Bed mattresses. Serial No. 642,471, Feb. 9. Class 32.
Hitchcock Packing Co., Inc., Salinas, Calif. Lettuce. Serial No. 653,572, Feb. 9. Class 46.
Holiday Frosted Food Co.: *See*—
Wolf, Robert S.
Holiday Frosted Foods: *See*—
Wolf, Robert S.
Hooker Electrochemical Company, Niagara Falls, N. Y. 1,4,5,6,7,7 - hexachlorobicyclo-(2.2.1) - heptene - 2,3-dicarboxylic acid and anhydride, etc. Serial No. 649,709, Feb. 9. Class 6.
Horton & Converse, Los Angeles, Calif. Pharmacists' services. Serial No. 628,857, Feb. 9. Class 100.
Hub Vacuum Stores: *See*—
Kahn, Rudolph.
Hudson Engineering Corporation, Houston, Tex. Cooling apparatus. Serial No. 634,689. Feb. 9. Class 31.
Huron Milling Company, The, Harbor Beach, Mich. Food seasoning. Serial No. 648,175, Feb. 9. Class 46.
Hyster Company, Portland, Oreg. Load-squeezing mechanisms. Serial No. 650,997, Feb. 9. Class 23.
Imperial Chemical Industries Limited, London and Millbank, London, England. Paints, enamels, varnishes, etc. Serial No. 650,998, Feb. 9. Class 16.
Imperial Paper and Color Corporation, Glen Falls, N. Y. Chemical pigment colors. Serial No. 648,491, Feb. 9. Class 6.
Indian Orchard Finishing Co., Inc., Indian Orchard, Mass. Pre-shrinking, setting, and dyeing knitted fabrics. Serial No. 621,556, Feb. 9. Class 106.
Institute of Natural Law, Inc., Miami, Fla. Expanding wallet files, and forms for accounting, etc. Serial No. 624,686, Feb. 9. Class 37.
International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 644,304, Feb. 9. Class 46.
International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 644,307, Feb. 9. Class 46.
International Milling Company, Minneapolis, Minn. Wheat flour. Serial Nos. 644,312–13, Feb. 9. Class 46.
International Milling Company, Minneapolis, Minn. Wheat flour. Serial Nos. 644,315–16, Feb. 9. Class 46.
Ireland & Taub Paper Company, Inc., New York, N. Y. Coated printing paper. Serial No. 636,828, Feb. 9. Class 37.
Italian and French Wine Co.: *See*—
Battistoni, Romeo.
Ivy Food Distributing: *See*—
Wynn, Albert.
Jaffe, Samuel J., Inc., Albany, N. Y. Women's coats, suits, dresses, etc. Serial No. 646,217, Feb. 9. Class 39.
Jessop Steel Company, Washington, Pa. High speed steels, high speed and cast alloy bit steels, etc. Serial No. 649,713, Feb. 9. Class 14.
Jewels by D'Eri, Inc., Providence, R. I. Pendants, necklaces, brooches, etc. Serial No. 626,576, Feb. 9. Class 28.
Johnson & Johnson, New Brunswick, N. J. Surgical dressings. Serial No. 640,743, Feb. 9. Class 44.
Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Wire rope. Serial No. 643,339, Feb. 9. Class 7.
Kahn, Rudolph, doing business as Hub Vacuum Stores, New York, N. Y. Sewing machines. Serial No. 625,423, Feb. 9. Class 23.
Karagheusian, A. & M., Inc., New York, N. Y. Textile carpets. Serial Nos. 644,234–6, Feb. 9. Class 42.
Kayser, Julius, & Co., New York, N. Y. Gloves. Serial Nos. 651,593–4, Feb. 9. Class 39.
Kellogg Company, Battle Creek, Mich. Cereal breakfast foods. Serial No. 643,843, Feb. 9. Class 46.
Kembe Products, St. Petersburg, Fla. Chemical bleaching tablets. Serial No. 650,258, Feb. 9. Class 6.
Keystone Broadcasting System, Inc., Chicago, Ill. Selling advertising time on radio broadcasting staitons, etc. Serial No. 629,171, Feb. 9. Class 101.
King, Leonard H., doing business under the name, The Laree Company, Garden City, N. Y., assignor to S. O. S. Company, Chicago, Ill. Sponge mop. Serial No. 631,106, Feb. 9. Class 29.
Kirsh, Joseph, doing business as Empire State Flour Co., New Haven, Conn. Bran-free wheat germ cereal. Serial No. 647,299, Feb. 9. Class 46.
Kleinwanzlebener Saatzucht Vorm. Rabbethge & Giesecke Aktiengesellschaft, Einbeck, Hannover, Germany. Agricultural seed. Serial No. 636,643, Feb. 9. Class 1.
Klemp Metal Grating Corporation, Chicago, Ill. Steel metal gratings, steel flooring, and steel reinforcement meshes. Serial No. 636,716, Feb. 9. Class 12.
Koebel Diamond Tool Co., Detroit, Mich. Diamond carrying cutting and dressing tools. Serial No. 646,223, Feb. 9. Class 23.
Kold Krisp Apple Service, doing business as Fruit-O-Matic Manufacturing Company, Los Angeles, Calif. Fruit vending coin operated machines. Serial No. 646,405, Feb. 9. Class 23.
Koninklijke Verkade Fabrieken N. V., Zaandam, Netherlands. Mochastocks. Serial No. 649,235, Feb. 9. Class 46.
Koppers Company, Inc., Pittsburgh, Pa. Synthetic resin. Serial No. 648,250, Feb. 9. Class 6.
Kress, S. H., and Company, New York, N. Y. Drawing paper, loose leaf fillers. Serial No. 627,825, Feb. 9. Class 37.
Kyanize Paints, Inc., Everett, Mass. Interior paints. Serial No. 649,163, Feb. 9. Class 16.
L. K. R. Chemical Products Corporation, Detroit, Mich. Protective coating. Serial No. 641,145, Feb. 9. Class 16.
LML Engineering & Mfg. Corp., Columbia City, Ind. Farm elevators. Serial No. 634,374, Feb. 9. Class 23.
Laree Company, The: *See*—
King, Leonard H.
Larvacide Products, Inc., New York, N. Y. Soil fumigants. Serial No. 645,162, Feb. 9. Class 6.
Le Gear, Dr. L. D., Medicine Co., St. Louis, Mo. Preparation used in the treatment of poultry to assist in preventing and controlling the spread of infectious diseases. Serial No. 651,766, Feb. 9. Class 18.
Lekowski, Joseph S., New York, N. Y. Tinfoil substitute for acrylic denture work. Serial No. 648,494, Feb. 9. Class 44.
Lenson, U. & J., Corp., The, Brooklyn, N. Y. Coffee and tea. Serial No. 641,995, Feb. 9. Class 46.

Leon, Georges G., doing business under the firm name and style of Toutain, Paris, France. Apparatus for medical and orthopaedic massages. Serial No. 625,472, Feb. 9. Class 44.
Lewis, A. E., & Co., Inc., New York, N. Y. Stainless steel knives, forks, spoons, etc. Serial No. 648,677, Feb. 9. Class 23.
Lewis, Gilbert L., doing business as Protexall Permanent Process Service, Kansas City, Mo. Solvent-type adhesive. Serial No. 635,187, Feb. 9. Class 5.
Libby-Owens-Ford Glass Company, Toledo, Ohio. Textile fabrics. Serial No. 637,382, Feb. 9. Class 42.
Liberty Mills: *See*—
Burrus Mills, Incorporated.
Lien, Jorgen S., New York, N. Y. Safes. Serial No. 649,236, Feb. 9. Class 25.
Lippens, Paul, Inc., Montreal, Quebec, Canada. Medication for the treatment of peptic and stomach ulcers. Serial No. 645,907, Feb. 9. Class 18.
Lowell Manufacturing Company: *See*—
Lowell Specialty Company of Lowell, Mich.
Lowell Specialty Company of Lowell, Mich., doing business under the name Lowell Manufacturing Company, Chicago, Ill. Hand operated compression sprayers. Serial No. 601,930, Feb. 9. Class 23.
Ludwig Acres Chinchilla Ranch: *See*—
Ludwig, John H.
Ludwig, John H., doing business under the name of Ludwig Acres Chinchilla Ranch, Mohnton, Pa. Chinchilla pelts and live chinchillas. Serial No. 648,678, Feb. 9. Class 1.
Lummus Company, The, New York, N. Y. Development of chemical and petroleum refining processes, etc. Serial No. 644,559, Feb. 9. Class 100.
M. A. E. Co.: *See*—
Betterly, Warren A.
Maggioni, L. P., & Company, Savannah, Ga. Canned, fresh, and frozen shell fish. Serial No. 645,249, Feb. 9. Class 46.
Magnesium Elektron Limited, Clifton Junction, near Manchester, England. Castings and forgings. Serial Nos. 646,678–9, Feb. 9. Class 14.
Magnet Cove Barium Corporation, Bellaire, Tex. Reacted caustic soda and quebracho product. Serial No. 649,430, Feb. 9. Class 6.
Magnet Cove Barium Corporation, Bellaire, Tex. Quebracho compound. Serial No. 649,432, Feb. 9. Class 6.
Maico Company, Incorporated, The, Minneapolis, Minn. Medical acoustic instruments. Serial No. 650,315, Feb. 9. Class 44.
Maison de Lupo's, Inc., Brooklyn, N. Y. Perfumes. Serial No. 649,434, Feb. 9. Class 51.
Malanco, Inc., Blue Island, Ill. Glassine and greaseproof papers. Serial No. 649,111, Feb. 9. Class 37.
Mann & Bros., Inc., New York, N. Y. Handkerchiefs. Serial No. 629,614, Feb. 9. Class 39.
Mann, H. W., Salinas, Calif. Fresh vegetables. Serial No. 645,489, Feb. 9. Class 46.
Marcalus Manufacturing Co. Inc., East Paterson, N. J. Paper handkerchiefs. Serial No. 621,476, Feb. 9. Class 37.
Mark: Research Corporation of America, Chicago, Ill. Gathering information from individuals and families as to the nature and extent of their purchases of various commodities. Serial No. 641,852, Feb. 9. Class 101.
Marquette National Bank of Minneapolis, Minneapolis, Minn. Banking services. Serial No. 638,966, Feb. 9. Class 102.
Marshall, Hugh C., Co., Santa Ana, Calif. Resinous plastic tubes, bars, rods, etc. Serial No. 646,413, Feb. 9. Class 12.
Maryland Baking Company, The, Baltimore, Md. Unfilled ice cream cones. Serial No. 635,482, Feb. 9. Class 46.
Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. Serial No. 651,926, Feb. 9. Class 18.
Mathews, Oscar A., doing business under the name and style of Mathews Products Company, Oakland, Calif. Candy. Serial No. 588,443, Feb. 9. Class 46.
Mathews Products Company: *See*—
Mathews, Oscar A.
Mathieson Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.
Mathieson Chemical Corporation, New York, N. Y. Antibiotic preparation. Serial No. 649,801, Feb. 9. Class 18.
Mathieson Chemical Corporation, New York, N. Y. Corticotropic hormone preparation. Serial No. 649,802, Feb. 9. Class 18.
Mathieson Chemical Corporation, New York, N. Y. Preparation for use where male sex hormone is indicaed. Serial No. 649,803, Feb. 9. Class 18.
Mattay, Inc., Philadelphia, Pa. Sachets. Serial No. 645,581, Feb. 9. Class 51.
McCampbell & Company, Inc., New York, N. Y. Shirting. Serial No. 651,176, Feb. 9. Class 42.
McLeran, John B., doing business as McLeran's Industries, Duluth, Minn. Lubricaing oil additive. Serial No. 647,867, Feb. 9. Class 15.
McLeran's Industries: *See*—
McLeran, John B.
Mead Johnson & Company, Evansville, Ind. Specially prepared foods. Serial No. 634,987, Feb. 9. Class 46.
Mead Johnson & Company, Evansville, Ind. Vitamin capsules. Serial No. 651,118, Feb. 9. Class 18.
Medical Fabrics Co., Inc., Paterson, N. J. Medical bandages. Serial No. 639,383, Feb. 9. Class 44.
Messer, William S., trading as C. Giles & Co., St. Albans, England. Darts, dart boards, and parts thereof and dart scorers. Serial No. 633,462, Feb. 9. Class 22.
Metal Frame Aquarium Company, Pine Brook, N. J. Household glass aquariums. Serial No. 640,295, Feb. 9. Class 33.
Metal Processing Co., Inc., Cedar Grove, N. J. Hardenable, nickel base alloy. Serial No. 643,236, Feb. 9. Class 14.
Milani Import & Export Co.: *See*—
Milani, J. L.
Milani, J. L., doing business as Milani Import & Export Co., Hollywood, Calif. Wines. Serial No. 650,266, Feb. 9. Class 47.
Miller, Roy E., Danville, Ill. Egg composition. Serial No. 642,484, Feb. 9. Class 46.
Milsan Mills, Inc., Lebanon, Pa. Piece goods. Serial No. 644,183, Feb. 9. Class 42.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Rubber adhesive. Serial No. 648,032, Feb. 9. Class 5.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Decorative ribbon. Serial Nos. 648,681–2, Feb. 9. Class 7.
Mischer, Irving, doing business as Sheldon Fine Foods Company, Brooklyn, N. Y. Dehydrated soups and soup mixes. Serial No. 648,318, Feb. 9. Class 46.
Missouri Farmers Association, Inc., Columbia, Mo. Vegetable seeds, lawn seeds, and field crop seeds. Serial No. 644,246, Feb. 9. Class 1.
Mohora Products: *See*—
Fouts, Robert J.
Monarch Manufacturing Works, Inc., Philadelphia, Pa. Nozzles. Serial No. 650,636, Feb. 9. Class 13.
Monsanto Chemical Company, St. Louis, Mo. Preparation for animal feed supplementation. Serial No. 638,009, Feb. 9. Class 18.
Montefusco, Michael T., Brooklyn, N. Y. Protective metal guards. Serial No. 649,011, Feb. 9. Class 12.
Mortensen, Carl, doing business as U. S. Marine Chemicals Co., New York, N. Y. Chemical additives to fuel oil and lubricating oil. Serial No. 641,199, Feb. 9. Class 15.
Mother's Food Products, Inc., Newark, N. J. Oleomargarine. Serial No. 642,982, Feb. 9. Class 46.
Motomco, Inc., New York, N. Y. Insecticides and rodenticides. Serial No. 648,773, Feb. 9. Class 6.
N. V. Drogerijen Maatschappij, Rotterdam and Mijdrecht, near Amsterdam, Netherlands. Perfumed waters, perfumes, lotions and preparations for the care of the hair. Serial No. 631,939, Feb. 9. Class 51.
National Biscuit Company, New York, N. Y., and elsewhere throughout the United States. Bakery products. Serial No. 551,022, Feb. 9. Class 46.
National Biscuit Company, New York, N. Y., and elsewhere throughout the United States. Bakery products. Serial No. 551,025, Feb. 9. Class 46.
National 4-H Club Foundation of America, Inc., Wilmington, Del., and Washington, D. C. Sponsoring and conducting visits of groups of foreign youth to the United States, etc. Serial No. 642,984, Feb. 9. Class 100.
National Gypsum Company, Buffalo, N. Y. Perforated insulation board. Serial No. 645,583, Feb. 9. Class 12.
Nelson Tanning Corporation, San Antonio, Tex. Sheepskin, plasticized furs and plasticized lambskin shearlings. Serial No. 637,390, Feb. 9. Class 1.
New England Overall Co. Inc., Boston, Mass. Dungarees. Serial No. 638,597, Feb. 9. Class 39.
New York Association for the Blind, Inc., The, New York, N. Y. Floor brooms. Serial No. 655,921, Feb. 9. Class 29.
Niash Refining Company, New York, N. Y. Cuff link wing backs. Serial No. 636,726, Feb. 9. Class 28.
Nichols-Detroit, Detroit, Mich. Ink plates and ink therefor. Serial No. 580,255, Feb. 9. Class 11.
Niles-Bement-Pond Company, West Hartford, Conn. Screw thread cutting taps. Serial No. 648,185, Feb. 9. Class 23.
Nitta, S. John, doing business as American Chick Sexing Association, Lansdale, Pa. Determining the sex of chicks and poults for hatcheries. Serial No. 648,778, Feb. 9. Class 100.
North American Mogul Products Company, The, Cleveland, Ohio. Compounds for the eradicating and removing of rust. Serial No. 640,955, Feb. 9. Class 52.
North American Philips Company, Inc., New York, N. Y. Electro-medical apparatus. Serial No. 651,667, Feb. 9. Class 44.
Northwest Type Foundry: *See*—
Field, George A.
Nuodex Products Co., Inc., Elizabeth, N. J. Mildewproofing agent. Serial No. 650,115, Feb. 9. Class 6.
Nutrilite Products, Inc., Buena Park, Calif. Vitamin preparation. Serial No. 651,280, Feb. 9. Class 18.
Oklahoma Fertilizer & Chemical Co., Oklahoma City, Okla. Fertilizers. Serial No. 637,938, Feb. 9. Class 10.
Olin Industries, Inc., New Haven, Conn. Ammunition. Serial No. 651,937, Feb. 9. Class 9.
Opera Dress & Blouse, Inc., The, New York, N. Y. Ladies' blouses. Serial No. 651,528, Feb. 9. Class 39.

Ortho Pharmaceutical Corporation, Raritan, N. J. Contrast media. Serial No. 654,069, Feb. 9. Class 18.
Ortho Pharmaceutical Corporation, Raritan, N. J. Gynecological preparations, veterinary preparations, etc. Serial No. 654,835, Feb. 9. Class 18.
Outboard, Marine & Manufacturing Company, Waukegan, Ill. Outboard motors and parts thereof. Serial No. 647,648, Feb. 9. Class 23.
Oxford Pharmaceutical Company, Philadelphia, Pa. Medicinal preparation. Serial No. 637,499, Feb. 9. Class 18.
Ozark Leather Company: *See*—
Stein, C. N.
Pacific Fruit & Produce Co.: *See*—
Pacific Gamble Robinson Co.
Pacific Gamble Robinson Co., doing business as Pacific Fruit & Produce Co., Seattle, Wash. Fresh vegetables. Serial No. 647,649, Feb. 9. Class 46.
Pacific Paint & Varnish Co., Berkeley, Calif. Paint products. Serial No. 651,811, Feb. 9. Class 16.
Packageers Co.: *See*—
Stone, Rex A.
Parke, Davis & Company, Detroit, Mich. Diuretic preparation. Serial No. 651,284, Feb. 9. Class 18.
Parke, Davis & Company, Detroit, Mich. Combination of diphtheria, tetanus, and pertussis immunizing vaccines. Serial No. 651,285, Feb. 9. Class 18.
Pfister Chemical Works, Inc., Ridgefield, N. J. Sequestering agents—namely, chemicals in liquid or powder form. Serial No. 648,039, Feb. 9. Class 6.
Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Glucose oxidase-catalase enzyme system used in the processing of foods. Serial No. 639,287, Feb. 9. Class 46.
Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Paint. Serial No. 533,365, Feb. 9. Class 16.
Physicians' Drug & Supply Co., Philadelphia, Pa. Electrocardiograph jelly. Serial No. 648,790, Feb. 9. Class 18.
Physiological Chemicals Company, Inc., New Rochelle, N. Y. Pharmaceutical preparations. Serial No. 634,484, Feb. 9. Class 18.
Physiological Chemicals Company, Inc., New Rochelle, N. Y. Pharmaceutical preparations. Serial No. 634,485, Feb. 9. Class 18.
Pioneer Rubber Company, The, Willard, Ohio. Surgeons' gloves. Serial No. 649,051, Feb. 9. Class 44.
Pittman Products, Inc., Huntington Park, Calif. Rubber hand tool. Serial No. 632,740, Feb. 9. Class 23.
Process Hat Corporation, New York, N. Y. Felt hats and felt hat bodies. Serial No. 640,755, Feb. 9. Class 39.
Processed Papers: *See*—
Bermingham & Prosser Company.
Protexall Permanent Process Service: *See*—
Lewis, Gilbert L.
Proven Paper Manufacturing Company.: *See*—
Epstein, Harry T.
Pure Oil Company, The, Chicago, Ill. Cleaner. Serial No. 633,377, Feb. 9. Class 52.
Rejuvia Beauty Laboratories, Inc., New York, N. Y. Lipsticks. Serial No. 649,824, Feb. 9. Class 51.
Remedol Company, Nashville, Tenn. Ethical medicinal preparation. Serial No. 642,420, Feb. 9. Class 18.
Rhode Island Community Chests, Inc., Providence, R. I. Collecting and distributing funds. Serial No. 610,990, Feb. 9. Class 102.
Rib Lake Cheese Co.: *See*—
Rib Lake Dairy Products Co.
Rib Lake Dairy Products Co., Medford, Wis., by change of name from Rib Lake Cheese Co. Cheese. Serial Nos. 640,805–6, Feb. 9. Class 46.
Richards, Wesley J., Santa Monica, Calif. Vitamin capsules. Serial No. 647,722, Feb. 9. Class 18.
Rimmel, Inc., New York, N. Y. After shave lotion, talcum powder, eau de cologne, etc. Serial No. 640,170, Feb. 9. Class 51.
Ritter-Price Co., Inc., Los Angeles and Stockton, Calif. Fresh vegetables. Serial No. 650,730, Feb. 9. Class 46.
River Raisin Paper Company, Monroe, Mich. Corrugated and solid fibre shipping cases and cartons. Serial No. 646,806, Feb. 9. Class 2.
Rolfs, David J., doing business as The Dida Company, Barton, Wis. Chemical insect repelling preparation. Serial No. 649,961, Feb. 9. Class 6.
Ross, Will, Inc., Milwaukee, Wis. Disposable surgical dressings. Serial No. 649,389, Feb. 9. Class 44.
Roto-Rooter Corporation, Des Moines, Iowa. Pipe cleaning machines. Serial No. 620,438, Feb. 9. Class 23.
Royal Sealer, Inc., Miami, Fla. Sealer. Serial No. 649,963, Feb. 9. Class 16.
Ruberoid Co., The, Bound Brook, N. J., and New York, N. Y. Asphalt shingles. Serial No. 645,009, Feb. 9. Class 12.
Ruko Company, New York, N. Y. Leather bag designed for carrying photographic camera and parts therefor. Serial No. 627,462, Feb. 9. Class 26.
S. F., Appliances, Limited, Ridgefield, N. J. Oil stoves and ranges, and for portable ovens. Serial No. 643,049, Feb. 9. Class 34.
S-K-O Corporation, Buffalo, N. Y. Sterilizing solution. Serial No. 642,423, Feb. 9. Class 6.
S. O. S. Company, assignee: *See*—
King, Leonard H.
S. S. I. Co., West Palm Beach, Fla. Preparation for removing odors and for preventing mildew and mold. Serial No. 643,723, Feb. 9., Class 6.
Saavedra Workshop, Chicago, Ill. Letter and memoranda display holder. Serial No. 647,725, Feb. 9. Class 37.
St. Thomas Inc., Gloversville, N. Y. Pocket case. Serial No. 636,658, Feb. 9. Class 3.
Saluda Corporation, New York, N. Y. Men's under shorts. Serial No. 648,885, Feb. 9. Class 39.
Samuel, Howard H., Inc., Hackettstown, N. J. Power operated tractor attachments and associated parts. Serial No. 634,004, Feb. 9. Class 23.
Samuels, T. W., Distillery: *See*—
Foster Trading Corporation, The.
Sapolin Paints Inc., New York, N. Y. Plastic rubber caulking compound. Serial No. 640,582, Feb. 9. Class 12.
Schenley Distillers, Inc., New York, N. Y. Antibiotic feed supplement. Serial No. 651,538, Feb. 9. Class 18.
Schenley Industries, Inc., New York, N. Y. Crystallized rock and rye liqueur. Serial No. 588,889, Feb. 9. Class 49.
Schenley Industries, Inc., doing business as Cresta Blanca Wine Company, New York, N. Y. Wines. Serial No. 646,434, Feb. 9. Class 47.
Schering Corporation, Bloomfield, N. J. Hormones, antihistamines, X-ray diagnostic agents, etc. Serial No. 651,540, Feb. 9. Class 18.
Schwehm's, John M., Sons, Inc., Philadelphia, Pa. Interlining fabrics. Serial No. 648,435, Feb. 9. Class 42.
Scoville Manufacturing Company, Waterbury, Conn. Sheet brass, tubing stock, rod and wire stock, etc. Serial No. 623,214, Feb. 9. Class 14.
Sears, Roebuck and Co., Chicago, Ill. Bicycles, bicycle hand horns, bicycle repair and replacement parts, etc. Serial No. 548,855, Feb. 9. Class 19.
Sears, Roebuck and Co., Chicago, Ill. Vacuum picnic jugs, vacuum bottles, lunch kits. Serial No. 581,374, Feb. 9. Class 2.
Seminole Flavor Company, Chattanooga, Tenn. Carbonated nonalcoholic, noncereal, multiless beverages. Serial No. 640,648, Feb. 9. Class 45.
Service Parts Systems, Inc., Grosse Pointe, Mich. Units each comprising a rack having uprights and vertically spaced cross bars, etc. Serial No. 640,966, Feb. 9. Class 32.
Sheldon Fine Foods Company: *See*—
Mischer, Irving.
Sherwin-Williams Company, The, Cleveland, Ohio. Paint. Serial No. 646,812, Feb. 9. Class 16.
Siegel & Co., Koln-Braunsfeld, Germany. Polishes. Serial No. 641,237, Feb. 9. Class 4.
Sims, Harry R., St. Louis, Mo. Line dressing. Serial No. 635,277, Feb. 9. Class 6.
"Smith-Dorsey": *See*—
Wander Company, The.
Smith-Douglass Company, Incorporated, Norfolk, Va. Fertilizers and soil conditioning materials. Serial No. 637,551, Feb. 9. Class 10.
Smith, Malcolm E., Jr., doing business under the trade name Turner-Smith Drug Company, New York, N. Y. Therapeutic nutritive tonic. Serial No. 650,072, Feb. 9. Class 18.
Smythson, Frank, Limited, London, England. Diaries. Serial No. 620,748, Feb. 9. Class 37.
Societe Anonyme Maison Deutz & Geldermann, Ay (Marne), France. Champagne. Serial No. 636,905, Feb. 9. Class 47.
Sodacyl, Inc., Seymour, Ind. Capsule for relief of pain. Serial No. 638,923, Feb. 9. Class 18.
Southeastern Products Corp., Birmingham, Ala. Lubricant. Serial No. 651,471, Feb. 9. Class 15.
Spence, Bryson and Company Limited, Belfast, Northern Ireland. Handkerchiefs. Serial No. 640,172, Feb. 2. Class 39.
Spencer Chemical Company, Kansas City, Mo. Weed killer. Serial No. 642,703, Feb. 9. Class 6.
Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Disposable cartridges containing medicines and pharmaceutical preparations. Serial No. 614,268, Feb. 9. Class 18.
Steckley Hybrid Corn Company, Lincoln, Nebr. Hybrid seed corn. Serial No. 644,694, Feb. 9. Class 1.
Steffens, Roy Y., Palo Alto, Calif. Entertainment service rendered through the medium of television broadcast programs. Serial No. 647,558, Feb. 9. Class 107.
Stein, C. N., doing business as Ozark Leather Company, Waco, Tex. Saddles, bridles, martingales, etc. Serial No. 636,258, Feb. 9. Class 3.
Stone, Rex A., doing business as Packageers Co., Chicago, Ill. Plastic bags. Serial No. 647,892, Feb. 9. Class 2.
Stoner-Mudge, Inc., Pittsburgh, Pa. Pigmented or clear resinous coating compositions. Serial No. 649,617, Feb. 9. Class 16.
Summers, Charles G., Jr., Inc., New Freedom, Pa. Canned vegetables. Serial No. 530,260, Feb. 9. Class 46.
Sun Chemical Corporation, New York and Long Island City, N. Y. Printing ink. Serial Nos. 640,238–40, Feb. 9. Class 11.
Surface Conduction, Inc., New York, N. Y. Micro wave transmission equipment and accessories. Serial No. 646,633, Feb. 9. Class 21.
Sutherland Paper Company, Kalamazoo, Mich. Shirt and collar protectors of cardboard. Serial No. 647,964, Feb. 9. Class 37.

Sylvan Seal Milk, Inc., Philadelphia, Pa. Dairy products. Serial No. 642,054, Feb. 9. Class 46.

T. & R. Products, Saginaw, Mich. Compound to resist metal accumulation on all types of casting machine molds. Serial No. 647,050, Feb. 9. Class 6.

Tarex S. A., Geneva, Switzerland. Automatic machines for the machining of metals. Serial No. 645,203, Feb. 9. Class 23.

Testor Chemical Company: *See*—
Testor, Nils F.

Testor, Nils F., doing business as Testor Chemical Company, Rockford, Ill. Paints and enamels, and thinners therefor. Serial No. 651,370, Feb. 9. Class 16.

Thermo Window Co. Inc., Shrewsbury, Mass. Convertible storm and screen sash. Serial No. 642,711, Feb. 9. Class 12.

Thoma, Edwin L., River Forest, Ill. Ingredients for making instant coffee. Serial No. 648,970, Feb. 9. Class 46.

Thomae, Dr. Karl, G. m. b. H., Biberach an der Riss, Germany. Antacid and absorbant. Serial No. 647,271, Feb. 9. Class 18.

Thomae, Dr. Karl, G. m. b. H., Biberach an der Riss, Germany. Theophylline and papaverine preparation. Serial No. 647,272, Feb. 9. Class 18.

Thomae, Dr. Karl, G. m. b. H., Biberach an der Riss, Germany. Preparation for prolonged treatment of cardiac circulation disorders. Serial No. 647,273, Feb. 9. Class 18.

Tico Taco Mexican Food Products Co.: *See*—
Contreras, Waldo L.

Topco Associates, Inc. (Cooperative), Chicago, Ill. Toilet tissue. Serial No. 644,468, Feb. 9. Class 37.

Torbert, Willis M., New Rochelle, N. Y. Vitamin-tonic medicinal preparations. Serial No. 622,565, Feb. 9. Class 18.

Toutain: *See*—
Leon, Georges G.

Tremco Manufacturing Company, The, Cleveland, Ohio. Liquid which is added to the water used in mixing concrete. Serial No. 649,741, Feb. 9. Class 6.

Turner-Smith Drug Company: *See*—
Smith, Malcolm E., Jr.

Twinkle Polish Corporation, Brooklyn, N. Y., assignor to The Drackett Company, Cincinnati, Ohio. Metal and glass polish. Serial No. 646,178, Feb. 9. Class 4.

Ultra Chemical Works, Inc., Paterson, N. J. Wetting agents. Serial No. 648,442, Feb. 9. Class 6.

Union Metal Manufacturing Company, The, Canton, Ohio. Drop bottom materials handling stacking boxes. Serial No. 645,749, Feb 9. Class 2.

United Elastic Corporation, Easthampton, Mass. Relatively narrow elastic webbing. Serial No. 633,799, Feb. 9. Class 42.

U. S. Marine Chemicals Co.: *See*—
Mortensen, Carl.

Universal Oil Products Company, Chicago, Ill. Apparatus, in the nature of a plant, for the treatment of hydrocarbon mixtures. Serial No. 630 976, Feb. 9. Class 23.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 645,684, Feb. 9. Class 18.

Upjohn Company, The, Kalamazoo, Mich. Antibiotic preparation. Serial No. 648,067, Feb. 9. Class 18.

Vacuum Metals Corporation, Cambridge, Mass. Copper and copper base alloys. Serial No. 638,456, Feb. 9. Class 14.

Vaudable, L., Paris, France. Wines. Serial No. 626,766, Feb. 9. Class 47.

Vault Company of America, Davenport, Iowa. Burial vaults. Serial No. 650,076, Feb. 9. Class 2.

Vimco Macaroni Products Company, Carnegie, Pa. Macaroni. Serial No. 631,906, Feb. 9. Class 46.

Vineland Farmers Union Egg Producers Cooperative, Inc., Vineland, N. J. Shell eggs. Serial No. 650,660, Feb. 9. Class 46.

Viviano, V., & Bros. Macaroni Manufacturing Co., Inc., St. Louis, Mo. Macaroni, spaghetti, and egg noodles, etc. Serial No. 634,616, Feb. 9. Class 46.

Wallace, M. E., Company, Sunbury, Pa. Chemical compound. Serial No. 613,620, Feb. 9. Class 6.

Walter Paint Products, Inc., Waterbury, Conn. Paints, varnishes, enamels, etc. Serial No. 633,689, Feb. 9. Class 16.

Wander Company, The, doing business under the name "Smith-Dorsey," Chicago, Ill. Antihistaminic preparation. Serial No. 644,529, Feb. 9. Class 18.

Warren Petroleum Corporation, Tulsa, Okla. Liquified petroleum gas. Serial No. 649,853, Feb. 9. Class 6.

Warren, W., Thread Works, Inc., New York, N. Y. Cotton, silk, and synthetic sewing threads. Serial No. 650,402, Feb. 9. Class 43.

Western Hardboard Sales Co., Tacoma, Wash. Compressed fiber board. Serial No. 646,705, Feb. 9. Class 12.

Whiting & Davis Company, Plainville, Mass. Handbag accessories. Serial No. 636,866, Feb. 9. Class 3.

Wilmot Castle Company, Rochester, N. Y. Sterilizers. Serial No. 635,108, Feb. 9. Class 44.

Wilson, A. L., Chemical Company, Kearny, N. J. Volatile dry spotter. Serial No. 641,409, Feb. 9. Class 52.

Winans, C. G., Company, Newark, N. J. Wax treated paper. Serial No. 648,223, Feb. 9. Class 37.

Wirtz Company, Peoria, Ill. Photographic matrices. Serial No. 650,851, Feb. 9. Class 26.

Witco Chemical Company, Chicago, Ill. Water wettable or water dispersible stearates. Serial No. 646,248, Feb. 9. Class 6.

Wolcott Company, The, Hartford, Conn. Cleaning compound. Serial No. 645,852, Feb. 9. Class 52.

Wolf, Robert S., doing business under the name and style of Holiday Frosted Food Co., Philadelphia, Pa., also known as Holiday Frosted Foods. Frozen meats. Serial No. 649,045, Feb 9. Class 46.

Wong, Howard, doing business as European Coast Chemical House, New York, N. Y. Potassium carbonate and phenolphthalein. Serial No. 637,557, Feb. 9. Class 6.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Washing compound. Serial No. 615,512, Feb. 9. Class 52.

Wynn, Albert, doing business as Ivy Food Distributing, Bayside, N. Y. Pretzels. Serial No. 639,729, Feb. 9. Class 46.

Wynn Oil Company, Azusa, Calif. Lubricating oils and lubricating oil additives. Serial No. 638,233, Feb. 9. Class 15.

Yakima Fruit & Cold Storage Co., Yakima, Wash. Fresh apples. Serial No. 646,088, Feb. 9. Class 46.

Yoshida, Toshio, doing business under the name and style of Consolidated Oil Company, San Francisco, Calif. Gasoline and oils and greases. Serial No. 647,124, Feb. 9. Class 15.

Zachary, William, Company: *See*—
Goodman, William Z.

LIST OF REGISTRANTS OF TRADE-MARKS

Abdulla & Company Limited, London, England. Cigarettes. 41,614, re-renewed Dec. 8, 1953. O. G. Feb. 9. Class 17.

Air-Shields, Inc., Hatboro, Pa. Resuscitators. 585,459, Feb. 9; Serial No. 636,672, published Nov. 10, 1953. Class 44.

Aktieselskabet Danisco, also trading as Danisco Ltd. and as Aktieselskabet Dansk Handels- OG Industri Compagni (Danisco), Copenhagen, Denmark. Alcoholic punch. 585,399, Feb. 9; Serial No. 622,914, published Nov. 10, 1953. Class 49.

Aktieselskabet Dansk Handels- OG Industri Compagni (Danisco): *See*—
Aktieselskabet Danisco.

Allen, Robert, Company, Minneapolis, Minn. Men's jewelry. 585,583, Feb. 9; Serial No. 632,970. Class 28.

Allied Home Products Corporation, Beloit, Wis. Liquid cleansing composition. 585,460, Feb. 9; Serial No. 636,958, published May 19, 1953. Class 52.

American Cyanamid Company, New York, N. Y. Flocculating and filtering reagent. 585,474, Feb. 9; Serial No. 640,249, published Nov. 3, 1953. Class 6.

American Cyanamid Company, New York, N. Y. Antibiotic. 585,531, Feb. 9; Serial No. 646,194, published Oct. 27, 1953. Class 18.

American Cyanamid Company, New York, N. Y. Antibiotic. 585,550, Feb. 9; Serial No. 646,917, published Oct. 27, 1953. Class 18.

American Lignite Products Co., Ione, Calif. Mineral wax. 585,491, Feb. 9; Serial No. 641,827, published Oct. 27, 1953. Class 15.

American Wire Fabrics Corporation, New York, N. Y. Screen wire-cloth. 585,532, Feb. 9; Serial No. 646,254, published Nov. 3, 1953. Class 13.

Ansul Chemical Company, Marinette, Wis. Organic solvent. 585,465, Feb. 9; Serial No. 638,514, published July 21, 1953. Class 52.

Armor-Tuf Laboratories, Inc., New York, N. Y. Compound for hardening and alloying steel. 585,445, Feb. 9; Serial No. 635,115, published Nov. 3, 1953. Class 6.

Armour and Company, Chicago, Ill. Synthetic detergent. 585,369, Feb. 9; Serial No. 548,469, published Nov. 10, 1953. Class 52.

Armstrong Rubber Company, The, West Haven, Conn. Sponge and foam rubber. 585,400, Feb. 9; Serial No. 623,330, published Nov. 10, 1953. Class 1.

Aseptic-Thermo Indicator Co., Los Angeles, Calif. Chemically treated paper indicators. 585,536, Feb. 9; Serial No. 646,349, published Nov. 10, 1953. Class 6.

Ashley Bait Co.: *See*—
Ashley, Joyce D.

Ashley, Joyce D., doing business under the names Cotton Ashley and Ashley Bait Co., Macksville, Kans. Canned fish bait. 583,710, Dec. 15, 1953. Corrected. O. G. Feb. 9. Class 22.

Atalanta Trading Corporation, New York, N. Y. Canned ham. 585,482–3, Feb. 9; Serial Nos. 640,998–9, published Nov. 3, 1953. Class 46.

Ayerst, McKenna & Harrison Limited, New York, N. Y. Muscle relaxant and vitamins. 585,552, Feb. 9; Serial No. 646,842, published Oct. 27, 1953. Class 18.

Beach Soap Company, Lawrence, Mass. Laundry soap. 585,427, Feb. 9; Serial No. 631,645, published Oct. 27, 1953. Class 52.

Beauty Counselors, Inc., Grosse Pointe, Mich. Shampoos and toilet soaps. 585,453, Feb. 9; Serial No. 636,058, published Nov. 3, 1953. Class 52.

Berger, David, doing business as The Berger Furnace Manufacturing Co., Pittsburgh, Pa. Air conditioning equipment. 585,502, Feb. 9; Serial No. 642,933, published Oct. 27, 1953. Class 34.

Berger Furnace Manufacturing Co., The: *See*—
Berger, David.

Berghoff Brewing Corporation, Fort Wayne, Ind. Beer. 585,557, Feb. 9; Serial No. 646,981, published Nov. 3, 1953. Class 48.

Berry Bros. & Co., to Berry Bros. & Rudd Limited, London, England. Spirits. 308,122, renewed Nov. 21, 1953. O. G. Feb. 9. Class 49.

Berry Bros. & Co., to Berry Bros. & Rudd Limited, London, England. Wines. 308,123, renewed Nov. 21, 1953. O. G. Feb. 9. Class 47.

Berry Bros. & Rudd Limited: *See*—
Berry Bros. & Co.

Best Foods, Inc., The: *See*—
Northern Cocoanut Products Corporation.

Better Brushes, Incorporated, Palmer, Mass. Paste cleaner for hands; paste cleaner for woodwork, etc. 585,470, Feb. 9; Serial No. 639,413, published Nov. 10, 1953. Class 52.

Bo-Mar Products, Inc., Union City, N. J. Fruit-flavored, non-alcoholic maltless syrups, concentrates and extracts. 585,387, Feb. 9; Serial No. 609,390, published Nov. 3, 1953. Class 45.

Botany Mills, Inc., Passaic, N. J. Shaving cream. 585,536, Feb. 9; Serial No. 646,984, published Nov. 10, 1953. Class 51.

Burns, E. Reed, Mfg. Corp., Brooklyn, N. Y. Buffing and polishing compounds. 585,541, Feb. 9; Serial No. 646,454, published Nov. 10, 1953. Class 4.

Burwood Products Company, Traverse City, Mich. Brush handles and backs of brushes. 585,455, Feb. 9; Serial No. 636,202, published Nov. 10, 1953. Class 29.

Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y. Services rendered manufacturers of all kinds of fabrics. 585,566, Feb. 9; Serial No. 648,364, published Nov. 10, 1953. Class 106.

Bradner Smith & Company: *See*—
Wroe, W. E., & Company.

California Wine Association: *See*—
Fruit Industries, Ltd.

California Wine Association, San Francisco, Calif. Brandy. 585,513, Feb. 9; Serial No. 644,663, published Nov. 3, 1953. Class 49.

Callison Wholesale Liquir Company, East St. Louis, Ill. Whiskey. 585,442, Feb. 9; Serial No. 634,429, published Nov. 3, 1953. Class 49.

Calumet and Hecla Consolidated Copper Company, Calumet, Mich. Condenser tube. 585,382, Feb. 9; Serial No. 605,296, published Nov. 10, 1953. Class 34.

Cameron Machine Company, Brooklyn, N. Y. Slitting wheel assembly. 585,485, Feb. 9; Serial No. 641,172, published July 14, 1953. Class 23.

Campana Corporation, Batavia, Ill. Astringents, skin lotions, after shaving lotions, etc. 311,244, renewed Mar. 20, 1954. O. G. Feb. 9. Class 51.

Campbell, Harry T., Sons' Corp., Towson, Md. Dry ground limestone. 585,591, Feb. 9; Serial No. 644,008. Class 1.

Caram Manufacturing Company, Monrovia, Calif. Solvents and diluents for adhesives and cements. 585,518, Feb. 9; Serial No. 645,544, published Nov. 3, 1953. Class 6.

Cecilware-Commodore Products Corp., New York, N. Y. Tea and coffee urns. 585,533, Feb. 9; Serial No. 646,270, published Nov. 3, 1953. Class 13.

Central Compounding Company, Chicago, Ill. Additive for flexographic aniline inks. 585,543, Feb. 9; Serial No. 646,522, published Nov. 10, 1953. Class 11.

Chicago Pharmacal Company, Chicago, Ill. Medicinal preparation. 585,468, Feb. 9; Serial No. 639,153, published Oct. 27, 1953. Class 18.

Chipman's Chas., Sons Co., Inc., New York, N. Y. Hosiery. 310,026, renewed Feb. 6, 1954. O. G. Feb. 9. Class 39.

Chocolate Products Company, Chicago, Ill. Nonalcoholic, noncereal, maltless beverages. 585,408, Feb. 9; Serial No. 625,715, published Nov. 3, 1953. Class 45.

Clark, D. L., Company, The, Pittsburgh, Pa. Mint candy. 585,381, Feb. 9; Serial No. 603,573, published Nov. 3, 1953. Class 46.

Clover Fork Coal Company, Kitts, Ky. Coal. 224,927, Mar. 8, 1927. Republished Feb. 9. Class 1.

Coates & Co. (Plymouth) Limited: *See*—
Coates & Company.

Coates & Company by Coates & Co. (Plymouth) Limited, Plymouth, England. Straight dry gin. 87,427, July 16, 1912. Republished Feb. 9. Class 49.

Columbus Dental Manufacturing Co., The, Columbus, Ohio. Prepared porcelain for use by the dental profession. 585,476, Feb. 9; Serial No. 640,499, published Nov. 10, 1953. Class 44.

Compressed Products Corporation, assignee: *See*—
Delicat, Inc.

Consolidated Sewing Machine and Supply Co., Inc., New York, N. Y. Garment trimming machines. 585,438, Feb. 9; Serial No. 633,568, published July 14, 1953. Class 23.

Cook Electric Company, Chicago, Ill. Electric terminals. 585,423, Feb. 9; Serial No. 630,313, published Nov. 3, 1953. Class 21.

Cooper Tire & Rubber Company, Findlay, Ohio. Automobile tires. 585,590, Feb. 9; Serial No. 643,409. Class 35.

Cornell Tire & Rubber Co.: *See*—
Pep Boys—Manny, Moe & Jack, The.

Corset H Company to Ivy Corset Company, Worcester, Mass. Corsets, brassières, bust-supporters. 95,748, re-renewed Mar. 10, 1954. O. G. Feb. 9. Class 39.

Cotton Ashley: *See*—
Ashley, Joyce D.

Cox Manufacturing Company, Ridgeville, Ind. Oil fired furnaces, gas fired furnaces, heat exchangers, etc. 585,464, Feb. 9; Serial No. 638,067, published Oct. 27, 1953. Class 34.

Crosley Broadcasting Corporation, Cincinnati, Ohio. Radio program broadcasting. 585,563, Feb. 9; Serial No. 627,557, published Nov. 3, 1953. Class 104.

Cutler, Jess & C. A., Inc., Columbus, Ga. Pellets for feeding chinchillas. 585,544, Feb. 9; Serial No. 646,535, published Nov. 10, 1953. Class 46.

Danisco Ltd.: *See*—
Aktieselskabet Danisco.

Dannen Mills, Inc., St. Joseph, Mo. Feeds. 585,368, Feb. 9; Serial No. 543,902, published Nov. 10, 1953. Class 46.

Delaware Punch Company of America, The, San Antonio, Tex. Nonalcoholic maltless beverage. 585,572, Feb. 9; Serial No. 579,584. Class 45.

Delicat, Inc., assignor to Compressed Products Corporation, New York, N. Y. Sanitary napkins. 585,402, Feb. 9; Serial No. 623,595, published Nov. 3, 1953. Class 44.

Delta Gamma Pre-School Visually Handicapped Foundation of St. Louis, St. Louis, Mo. Christmas trees. 585,524, Feb. 9; Serial No. 645,699, published Oct. 27, 1953. Class 1.

De Soto Paint & Varnish Co., Memphis, Tenn. Varnishes. 585,383, Feb. 9; Serial No. 605,646, published Nov. 3, 1953. Class 16.

Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. 95,608, re-renewed Mar. 3, 1954. O. G. Feb. 9. Class 23.

DoAll Company, The, Des Plaines, Ill. 585,424, Feb. 9. Steel ink, Serial No. 630,396, published June 16, 1953, Class 11; tool steel, Serial No. 630,400, published June 9, 1953, Class 14; lubricant and coolant, Serial No. 630,398, published July 14, 1953, Class 15; electrical apparatus, Serial No. 630,399, published June 2, 1953, Class 21; machine tools, parts and attachments for the machine tools, etc., Serial No. 630,394, published Sept. 29, 1953, Class 23; gaging instruments and attachments therefor, Serial No. 630,397, published Sept. 22, 1953, Class 26; supply cabinets, Serial No. 630,395, published June 2, 1953, Class 32. (Consolidated certificate, Classes 11, 14, 15, 21, 23, 26, and 32.)

Dore, Lucien, doing business as Plast-O-Bright Products, assignor to Du Verger-Dennis Corporation, Miami, Fla. Polish. 585,413, Feb. 9; Serial No. 628,851, published Nov. 10, 1953. Class 4.

Dow Chemical Company, The, Midland, Mich. Composition for adding to antifreeze solutions. 585,527, Feb. 9; Serial No. 645,969, published Nov. 10, 1953. Class 6.

Droste's Cacao- en Chocoladefabrieken, N. V., Haarlem, Netherlands. Edible chocolate. 585,395, Feb. 9; Serial No. 619,992, published Nov. 3, 1953. Class 46.

Drug Specialties, Inc., Winston-Salem, N. C. Medical preparation. 585 500, Feb. 9; Serial No. 642,530, published Oct. 27, 1953. Class 18.

Dupli-Color Products Co., Inc., Chicago, Ill. Decalcomania color tones in the nature of paints or lacquers. 585,430, Feb. 9; Serial No. 632,420, published Nov. 10, 1953. Class 16.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dye reducing agents and color stripping agents. 585,521, Feb. 9; Serial No. 645,638, publisehd Nov. 3, 1953. Class 6.

Du Verger-Dennis Corporation, assignee: *See*—
Dore, Lucien.

Dyckerhoff Portland-Zementwerke A.-G., Wiesbaden, Germany. Portland cement. 585,414, Feb. 9; Serial No. 628,927, published Nov. 10, 1953. Class 12.

Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 585,494–5, Feb. 9; Serial Nos. 642,205–6, published Oct. 27, 1953. Class 1.

Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 585,496–8, Feb. 9; Serial Nos. 642,208–10, published Oct. 27, 1953. Class 1.

Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 585,501, Feb. 9; Serial No. 642,626, published Oct. 27, 1953. Class 1.

Edwards-Freeman, Inc., Philadelphia, Pa. Dried fruits and evaporated fruits. 585,479, Feb. 9; Serial No. 640,924, published Nov. 3, 1953. Class 46.
Eeze Products, Inc., Brookline, Mass. Eyebrow cream. 585,416, Feb. 9; Serial No. 629,192, published Nov. 3, 1953. Class 51.
Ekco Products Company, Chicago, Ill. Kitchen and table knives, forks, and spoons. 585,370, Feb. 9; Serial No. 551,703, published July 28, 1953. Class 23.
Elox Corporation of Michigan, Clawson, Mich. Electrical disintegrating machines. 585,454, Feb. 9; Serial No. 636,072, published Nov. 3, 1953. Class 21.
Endust Corporation, The, Washington, D. C. Dust absorbing composition. 585,415, Feb. 9; Serial No. 629,094, published Oct. 27, 1953. Class 52.
Enterprise Aluminum Company, The, Massillon, Ohio. Base metal cooking hollow ware. 585,428, Feb. 9; Serial No. 631,856, published Nov. 10, 1953. Class 13.
Extruders, Inc., Hawthorne, Calif. Polyethylene nlm in sheet form for the manufacture of bags. 585,522, Feb. 9; Serial No. 645,641, published Oct. 27, 1953. Class 1.
Farnsworth, Daniel W., Montclair, N. J., and New York, N. Y., to D. W. Farnsworth, New York, N. Y. Flannel and woolen piece goods. 94,725, re-renewed Dec. 30, 1953. O. G. Feb. 9. Class 42.
Farrington Manufacturing Company, Jamaica Plain, Boston, Mass. Jewel cases. 585,589, Feb. 9; Serial No. 642,396. Class 2.
Farwell, Ozmun, Kirk & Co., St. Paul, Minn. Shears, scissors, razors, etc. 64,701, Aug. 20, 1907. Republished Feb. 9. Class 23.
Farwell, Ozmun, Kirk & Co., St. Paul, Minn. Knives and forks. 65,209, Sept. 10, 1907. Republished Feb. 9. Class 23.
Fear, Fred, & Co., Brooklyn, N. Y. Flavored syrups used in the preparation of non-alcoholic maltless soft drinks. 585,421, Feb. 9; Serial No. 629,936, published Nov. 3, 1953. Class 45.
Fearn Foods Inc., Franklin Park, Ill. Curing and preserving compounds, seasoning compounds, gum and cereal binders, etc. 585,444, Feb. 9; Serial No. 634,974, published Nov. 10, 1953. Class 46.
Federal Malleable Company, Milwaukee, Wis. Electric space heaters. 585,519, Feb. 9; Serial No. 645,560, published Nov. 10, 1953. Class 21.
Ferber Company, The, Hackensack, N. J. Industrial construction services. 585,565, Feb. 9; Serial No. 648,987, published Nov. 3, 1953. Class 103.
Filippone, B., & Co., assignor to B. Filippone & Co. Inc., to B. Filippone & Co., Inc., Passaic, N. J. Macaroni. 311,567, renewed Mar. 27, 1954. O. G. Feb. 9. Class 46.
Filippone, B., & Co., Inc.: *See*—
Filippone, B., & Co.
Flexidraw Company, Dearborn, Mich. Rust proofing compounds. 585,401, Feb. 9; Serial No. 623,455, published Nov. 3, 1953. Class 6.
Forschmidt Celery Company: *See*—
Forschmiedt, Henry.
Forschmiedt, Henry, doing business as Forschmidt Celery Company, Dallas, Tex. Fresh celery and fresh carrots. 585,509, Feb. 9; Serial No. 644,406, published Nov. 10, 1953. Class 46.
Foster, Edwin D., New York, N. Y. Porous paper bags for filtering and collecting dust in vacuum cleaners. 585,374, Feb. 9; Serial No. 586,596, published Oct. 6, 1953. Class 31.
Foster-Milburn Company, doing business under the name and style of Westwood Pharmaceuticals, Buffalo, N. Y. Skin protective cream. 585,451, Feb. 9; Serial No. 635,878, published Nov. 10, 1953. Class 51.
Fox, Oscar, Los Angeles, Calif. Jeweler saw blades. 585,406, Feb. 9; Serial No. 625,415, published July 14, 1953. Class 23.
Fox River Paper Company to Fox River Paper Corporation, Appleton, Wis. Bond paper. 307,870, renewed Nov. 7, 1953. O. G. Feb. 9. Class 37.
Fox River Paper Corporation: *See*—
Fox River Paper Company.
Fratelli Rossi, Asiago, Italy. Liquors. 585,377, Feb. 9; Serial No. 595,095, published Nov. 3, 1953. Class 49.
Freedman, Charles, El Centro, Calif. Fresh vegetables. 585,592, Feb. 9; Serial No. 646,470. Class 46.
Freeman, Max: *See*—
Mesberg, Harold W., and Freeman.
Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y., to California Wine Association, San Francisco, Calif. Wines. 308,100, renewed Nov. 21, 1953. O. G. Feb. 9. Class 47.
Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y., to California Wine Association, San Francisco, Calif. Wines. 308,787, renewed Dec. 19, 1953. O. G. Feb. 9. Class 47.
Geigy Company, Inc., New York, N. Y. Dyes and dyestuffs. 585,547, Feb. 9; Serial No. 646,663, published Nov. 3, 1953. Class 6.
General Foods Corporation, New York, N. Y. Cocoa mix. 585,484, Feb. 9; Serial No. 641,039, published Nov. 3, 1953. Class 46.
General Motors Corporation, Detroit, Mich. Fluid for hydraulic brakes, shock absorbers, and the like. 585,417, Feb. 9; Serial No. 629,198, published Nov. 3, 1953. Class 6.
General Paint Corporation, San Francisco, Calif. Interior wall paint. 585,397, Feb. 9; Serial No. 622,649, published Nov. 10, 1953. Class 16.
Glover, H. Clay, Co., Inc., New York, N. Y. Medicines for dogs, cats and foxes. 585,389, Feb. 9; Serial No. 610,901, published June 24, 1952. Class 18.
Gooderham & Worts Limited, Peoria, Ill. Whiskey. 327,789, Sept. 3, 1935. Republished Feb. 9. Class 49.
Goodrich, B. F., Company, The, New York, N. Y., to The B. F. Goodrich Company, Akron, Ohio. Pneumatic tires. 308,106, renewed Nov. 21, 1953. O. G. Feb. 9. Class 35.
Goodrich, B. F., Company, The, New York, N. Y., to The B. F. Goodrich Company, Akron, Ohio. Pneumatic tires. 308,974, renewed Dec. 26, 1953. O. G. Feb. 9. Class 35.
Great Atlantic and Pacific Tea Company, The, New York, N. Y. Candy. 585,490, Feb. 9; Serial No. 641,448 published Nov. 3, 1953. Class 46.
Griffin Manufacturing Co., Inc., Brooklyn, N. Y. Dry cleaning preparation. 585,506, Feb. 9; Serial No. 643,953, published Nov. 10, 1953. Class 52.
H & K Manufacturing Company, Laramie, Wyo. Cleaning compound of detergent character. 585,585, Feb. 9; Serial No. 636,848. Class 52.
Haase, Wilbert W., Co., Broadview, Ill. Materials and supplies used in the manufacture of burial vaults. 585,410, Feb. 9; Serial No. 626,567, published Nov. 10, 1953. Class 12.
Hal-Hen Company, Woodside, N. Y. Hearing aids. 585,559, Feb. 9; Serial No. 647,415, published Nov. 10, 1953. Class 44.
Handmacher-Vogel, Inc., New York, N. Y. Conducting golf tournaments. 585,560, Feb. 9; Serial No. 596,225, published Nov. 3, 1953. Class 107.
Hannifin Corporation, Chicago, Ill. Air line filters. 585,435, Feb. 9; Serial No. 633,361, published Oct. 13, 1953. Class 31.
Hassenstein Company: *See*—
Hassenstein, W. K. Max.
Hassenstein, W. K. Max, doing business under the name Hassenstein Company and Normalaids Company, Los Angeles, Calif. Nutritional supplement for use in protein deficiency. 585,584, Feb. 9; Serial No. 636,527. Class 18.
Heller Hostess-Ware, Inc., White Plains, N. Y. Beverage sets all made of anodized aluminum. 585,467, Feb. 9; Serial No. 639,115, published Nov. 10, 1953. Class 13.
Hex Foods, Inc., Kansas City, Mo. Chili. 585,380, Feb. 9; Serial No. 601,147, published Nov. 3, 1953. Class 46.
Hill Co., The: *See*—
Hill, Theodore R.
Hill, Theodore R., doing business as The Hill Co., Detroit, Mich. Rectal ointment. 585,553, Feb. 9; Serial No. 646,865, published Oct. 27, 1953. Class 18.
Himberger, Theodore, Omaha, Nebr. Clothesline reel. 585,587, Feb. 9; Serial No. 638,718. Class 24.
Hine, Thos., & Co., Jarnac, France. Cognac brandy. 309,493, renewed Jan. 16, 1954. O. G. Feb. 9. Class 49.
Hirschsprung, A. M. & Sonner Aktieselskab, Copenhagen, Denmark. Cigars, cheroots, and cigarettes. 585,578, Feb. 9; Serial No. 617,641. Class 17.
Hirsh, S. A., Manufacturing Co., Skokie, Ill. Shelf molding price tag holder. 585,457, Feb. 9; Serial No. 636,358, published Nov. 10, 1953. Class 13.
Holtzinger, C. M., Fruit Co., Inc., Yakima, Wash. Fresh deciduous fruits. 585,478, Feb. 9; Serial No. 640,859, published Nov. 10, 1953. Class 46.
Home Improvement Company: *See*—
Mann, Sydney.
Hoskins, Lisle D., Chicago, Ill., to The Procter & Gamble Company, Cincinnati, Ohio. Nail gloss. 308,127, renewed Nov. 21, 1953. O. G. Feb. 9. Class 51.
Huyck, F. C., & Sons, Rensselaer and Albany, to F. C. Huyck & Sons, Albany, N. Y. Blankets. 307,889, renewed Nov. 7, 1953. O. G. Feb. 9. Class 42.
Huyck, F. C., & Sons, Rensselaer and Albany, to F. C. Huyck & Sons, Albany, N. Y. Blankets. 307,891–4, renewed Nov. 7, 1953. O. G. Feb. 9. Class 42.
Huyck, F. C., & Sons, Rensselaer and Albany, to F. C. Huyck & Sons, Albany, N. Y. Blankets. 307,896, renewed Nov. 7, 1953. O. G. Feb. 9. Class 42.
Hygrade Food Products Corporation, Detroit, Mich. Bacon. 585,586, Feb. 9; Serial No. 637,589. Class 46.
Ilon Chemische Industrie G. m. b. H., Freiburg-Littenweiler/Br., Germany. Chemical and pharmaceutical preparations. 585,516, Feb. 9; Serial No. 645,043, published Nov. 3, 1953. Class 18.
Ilsco Copper Tube & Products, Inc., Cincinnati, Ohio. Electrical terminal blocks. 585,461, Feb. 9; Serial No. 636,983, published Nov. 3, 1953. Class 21.
Inertol Co., Inc., Newark, N. J. Water-resistant and protective paint or enamel coating. 585,555, Feb. 9; Serial No. 646,943, published Nov. 10, 1953. Class 16.
International Milling Company, Minneapolis, Minn. Wheat flour. 585,508, Feb. 9; Serial No. 644,309, published Nov. 3, 1953. Class 46.
International Milling Company, Minneapolis, Minn. Wheat flour. 585,510, Feb. 9; Serial No. 644,418, published Nov. 3, 1953. Class 46.
International Paint Company, Inc., New York, N. Y. Ready mixed paints and enamels. 585,523, Feb. 9; Serial No. 645,650, published Nov. 3, 1953. Class 16.
Ionia Manufacturing Company, Ionia, Mich. Components of refrigerator cabinets. 585,378, Feb. 9; Serial No. 595,961, published Nov. 3, 1953. Class 31.

Iowa Soap Company, Burlington, Iowa. Soap. 585,542, Feb. 9; Serial No. 646,475, published Nov. 10, 1953. Class 52.
Ivy Corset Company: *See*—
Corset H Company.
Jerclaydon, Inc., Miami Beach, Fla. Fibre brushes. 585,411, Feb. 9; Serial No. 628,002, published Nov. 3, 1953. Class 29.
Johns-Manville Corporation, New York, N. Y. Asbestos shingles and roofing. 308,534, renewed Dec. 5, 1953. O. G. Feb. 9. Class 12.
Johnson & Johnson, New Brunswick, N. J. Filter disks, rolls, and strips. 585,487, Feb. 9; Serial No. 641,381, published Oct. 13, 1953. Class 31.
Kay See Dental Mfg. Co., Kansas City, Mo. Synthetic resins for use in restorative dentistry. 585,372, Feb. 9; Serial No. 584,199, published Feb. 12, 1952. Class 44.
Kentucky River Distillery, Incorporated, Nicholasville, Ky. Bourbon whiskey. 585,398, Feb. 9; Serial No. 622,830, published Nov. 3, 1953. Class 49.
Kingsland-Ferguson, Inc., Brooklyn, N. Y. Fungicides, acne preparations, eye drops, etc. 585,570, Feb. 9; Serial No. 633,727, published Oct. 20, 1953. Class 18.
Klenzade Products, Incorporated, Beloit, Wis. Liquid sanitizer. 585,409, Feb. 9; Serial No. 626,384, published Nov. 3, 1953. Class 6.
Krey Packing Company, St. Louis, Mo. Unitary package containing a pie crust mix and canned beef and vegetables and both used in the making of beef pies. 585,419, Feb. 9; Serial No. 629,372, published Nov. 3, 1953. Class 46.
Krueger, Richard G., Inc., New York, N. Y. Babies' teethers. 585,499, Feb. 9; Serial No. 642,358, published Nov. 3, 1953. Class 44.
Leaf Brands, Inc., Chicago, Ill. Chewing gum. 585,528, Feb. 9; Serial No. 645,995, published Nov. 3, 1953. Class 46.
Lees-Bradner Company, The, Cleveland, Ohio. Machine tools. 585,375, Feb. 9; Serial No. 587,387, published July 21, 1953. Class 23.
Leigh Foods, Inc., New York, N. Y. Fresh frozen orange juice concentrate, fresh frozen grapefruit juice concentrate, frozen coffee, etc. 585,436–7, Feb. 9; Serial Nos. 633,547–8, published Nov. 3, 1953. Class 46.
Leininger, Clara, Maumee, Ohio. Breads. 585,422, Feb. 9; Serial No. 630,138, published Nov. 3, 1953. Class 46.
Les Parfums de Jacques Griffe, Paris, France. Perfumes. 585,426, Feb. 9; Serial No. 631,212, published Nov. 10, 1953. Class 51.
Lien Chemical Company, Franklin Park, Ill. Self-polishing floor wax. 585,575, Feb. 9; Serial No. 610,704. Class 4.
Lien Chemical Company, Franklin Park, Ill. Concentrated soapless cleaner. 585,576, Feb. 9; Serial No. 610,705. Class 52.
Lowe, Henry E., Jr., doing business as Lowe & Lowe Co., Cassopolis, Mich. Ground clay. 585,520, Feb. 9; Serial No. 645,578, published Oct. 27, 1953. Class 1.
Lowe & Lowe Co.: *See*—
Lowe, Henry E., Jr.
Lutze, William R., Brooklyn, N. Y. Door casings. 585,574, Feb. 9; Serial No. 605,218. Class 12.
Mabrand Products, Inc., Long Island City, to R. H. Macy & Co., Inc., New York, N. Y. Tea and coffee. 308,694, renewed Dec. 19, 1953. O. G. Feb. 9. Class 46.
MacDonald, Greenlees Limited, Leith, Edinburgh, Scotland. Scotch whisky. 585,434, Feb. 9; Serial No. 633,312, published Nov. 3, 1953. Class 49.
Macy, R. H., & Co., Inc.: *See*—
Mabrand Products, Inc.
Macy, R. H., & Co., Inc., New York, N. Y. Wines. 310,374, renewed Feb. 20, 1954. O. G. Feb. 9. Class 47.
Maggio Bros. Co., Los Angeles and El Centro, Calif. Fresh carrots. 585,441, Feb. 9; Serial No. 634,102, published Nov. 3, 1953. Class 46.
Mal-Boc Pipeline Construction Company, Linden, N. J. Spraying plastic coatings on pipe. 585,567, Feb. 9; Serial No. 647,209, published Nov. 3, 1953. Class 103.
Mallinckrodt Chemical Works, St. Louis, Mo. Rare earth oxide compositions. 585,545, Feb. 9; Serial No. 646,562, published Nov. 3, 1953. Class 6.
Manantiales Peñafiel, S. A., Tehuacan, Puebla, Mexico. Mineral water. 585,580, Feb. 9; Serial No. 622,654. Class 45.
Mann, Sydney, doing business as Home Improvement Company, Kansas City, Mo. Siding and wallboard. 585,469, Feb. 9; Serial No. 639,230, published Nov. 10, 1953. Class 12.
Manning, Maxwell & Moore, Incorporated, Stratford, Conn. 585,371, Feb. 9. Valves, Serial No. 621,974, published Oct. 14, 1952, Class 13; material handling equipment, Serial No. 621,975, published Mar. 3, 1953, Class 23; indicating and recording pressure and vacuum gauges, liquid level gauges, etc., Serial No. 560,491, published Feb. 3, 1953, Class 26. (Consolidated certificate, Classes 13, 23, and 26.)
Marcus Company, The, Brooklyn, N. Y. Folding paper boxes. 585,588, Feb. 9; Serial No. 642,291. Class 2.
Mary Jo's Products, Inc., Atlanta, Ga. Oat flour mix. 585,448, Feb. 9; Serial No. 635,272, published Nov. 3, 1953. Class 46.
Mason City Tent and Awning Co., Mason City, Iowa. Fitted canvas cover for tractors. 585,373, Feb. 9; Serial No. 586,293, published July 28, 1953. Class 23.
Mathieson Chemical Corporation, New York, N. Y. Antibacterial preparation. 585,554, Feb. 9; Serial No. 646,885, published Oct. 27, 1953. Class 18.
Mead Johnson & Company, Evansville, Ind. Fructose in solution for parenteral administration. 585,493, Feb. 9; Serial No. 641,942, published Oct. 27, 1953. Class 18.
Mead Johnson & Company, Evansville, Ind. Emulsion of vitamins A, D, and C. 585,503, Feb. 9; Serial No. 642,980, published Oct. 27, 1953. Class 18.
Mead Johnson & Company, Evansville, Ind. Pharmaceutical preparation. 585,514, Feb. 9; Serial No. 644,919, published Nov. 3, 1953. Class 18.
Menendez Garcia y Compania Limitada: *See*—
Upmann, H., & Co.
Merand, A., & Cie, Maison, Epernay, France. Champagne wine. 585,407, Feb. 9; Serial No. 625,610, published Nov. 3, 1953. Class 47.
Mesberg, Harold W., and M. Freeman, Long Island City, N. Y. Ornamental aluminum plated plastic articles, namely, cups, etc. 585,573, Feb. 9; Serial No. 589,161. Class 2.
Metal Mending Products, Inc., Milwaukee, Wis. All-metal fluxes for soldering. 585,511, Feb. 9; Serial No. 644,510, published Nov. 10, 1953. Class 6.
Metalwash Machinery Company, Elizabeth, N. J. Perchlorethylene for use as a degreasing agent. 585,463, Feb. 9; Serial No. 637,283, published Nov. 3, 1953. Class 52.
Metro-Atlantic Inc., Centredale, R. I. Textile resin finishes. 585,548–9, Feb. 9; Serial Nos. 646,786–7, published Nov. 10, 1953. Class 6.
Mineral Products Company, The, Kansas City, Mo., and Kansas City, Kans. Sintered aggregate used for building blocks, roofing aggregate and monolithic concrete. 585,579, Feb. 9; Serial No. 622,444. Class 12.
Minnesota and Ontario Paper Company, Minneapolis, Minn. Waterproofed vegetable fiber board. 585,440, Feb. 9; Serial No. 634,050, published Nov. 10, 1953. Class 12.
Minnick, Harold H.: *See*—
Roly-Poly Corporation.
Moench, R. G., & Co., Inc., New York, N. Y. Specially processed chocolate crystals. 585,526, Feb. 9; Serial No. 645,912, published Nov. 3, 1953. Class 46.
Monsanto Chemical Company, St. Louis, Mo. Chemical preservatives for use in livestock feeds. 585,517, Feb. 9; Serial No. 645,504, published Nov. 10, 1953. Class 46.
Motor Products Corporation, Detroit, Mich., and North Chicago, Ill. Automatic defrosting refrigerator and automatic defrosting system. 585,507, Feb. 9; Serial No. 644,053, published Nov. 3, 1953. Class 31.
Murray, Michael F., Eugene, Oreg. Fishing plug. 585,450, Feb. 9; Serial No. 635,608, published Nov. 3, 1953. Class 22.
Mutual Citrus Products Company, Anaheim, Calif. Pectin compositions, spray dried citric acid preparations and citrus fruit juices. 585,449, Feb. 9; Serial No. 635,548, published Nov. 3, 1953. Class 46.
National Lead Company: *See*—
Titanium Alloy Manufacturing Company, The.
National Marking Machine Company, The, Cincinnati, Ohio. Ink pads. 307,955, renewed Nov. 14, 1953. O. G. Feb. 9. Class 11.
National Society for Crippled Children and Adults, Inc., The, Chicago, Ill. Providing consultation services for crippled persons. 585,569, Feb. 9; Serial No. 644,248, published Nov. 10, 1953. Class 100.
Nesco Corporation, doing business under the name and style New England Sales Co., Waterbury, Conn. Windows, doors, screens, and metal and wooden awnings. 585,486, Feb. 9; Serial No. 641,321, published Nov. 10, 1953. Class 12.
New Britain Machine Company, The, New Britain, Conn. Screw machines, chucking machines, wrenches, etc. 195,032, Feb. 17, 1925. Republished Feb. 9. Class 23.
New Britain Machine Company, The, New Britain, Conn. Screw machines, chucking machines, wrenches, etc. 195,979, Mar. 10, 1925. Republished Feb. 9. Class 23.
New Britain Machine Company, The, New Britain, Conn. Screw machines, chucking machines, wrenches, etc. 195,981, Mar. 10, 1925. Republished Feb. 9. Class 23.
Newcastle Fruit Growers Association, Newcastle, Calif. Fresh deciduous fruits. 201,978, Aug. 11, 1925. Republished Feb. 9. Class 46.
New England Sales Co.: *See*—
Nesco Corporation.
Normalaids Company: *See*—
Hassenstein, W. K. Max.
North American Creameries, Inc., Minneapolis, Minn. Dairy products; margarine and frozen dessert products. 585,456, Feb. 9; Serial No. 636,247, published Nov. 10, 1953. Class 46.
Northern Cocoanut Products Corporation, New York, N. Y., and Chicago, Ill., to The Best Foods, Inc., New York, N. Y. Oleomargarine. 309,734, renewed Jan. 30, 1954. O. G. Feb. 9. Class 46.
Oliger, J. C., Seed Company, Okron, Ohio. Wild bird seeds. 585,529, Feb. 9; Serial No. 646,159, published Nov. 3, 1953. Class 46.
Oran Company, Columbus, Ohio. Domestic furnaces. 585,504, Feb. 9; Serial No. 643,181, published Oct. 27, 1953. Class 34.

Pep Boys—Manny, Moe & Jack, The, doing business as Cornell Tire & Rubber Co., Akron, Ohio, and Philadelphia, Pa., to The Pep Boys—Manny, Moe & Jack, Philadelphia, Pa. Adhesive vulcanizing cement, running board covering cement, etc. 310,951, renewed Mar. 13, 1954. O. G. Feb. 9. Class 5.

Permutit Company, The, New York, N. Y. Drafting, designing and supplying specifications and instructions for use in the construction of filter under drain systems. 585,561, Feb. 9; Serial No. 621,026, published Nov. 3, 1953. Class 100.

Pitman, Sir Isaac, & Sons Limited: *See*—
Pitman, Sir Isaac, & Sons, Ltd.

Pitman, Sir Isaac, & Sons, Ltd., Bath, to Sir Isaac Pitman & Sons Limited, London, England. Writing-paper. 41,318, re-renewed Oct. 20, 1953. O. G. Feb. 9. Class 37.

Pittsburgh Forgings Company, Coraopolis, Pa. Farm implements. 585,379, Feb. 9; Serial No. 598,387, published July 21, 1953. Class 23.

Plast-O-Bright Products: *See*—
Dore, Lucien.

Polly Prim Laundries of America, Inc., New York, N. Y. Commercial laundry and dry cleaning services. 585,571, Feb. 9; Serial No. 637,147, published Nov. 10, 1953. Class 103.

Porter and Brown Manufacturing Company, Salt Lake City, Utah. Water conditioning device. 585,452, Feb. 9; Serial No. 636,029, published Nov. 3, 1953. Class 13.

Procter & Gamble Company, The: *See*—
Hoskins, Lisle D.

Pyrene Manufacturing Co., New York, N. Y., to Pyrene Manufacturing Company, Newark, N. J. Fire-extinguishing compounds. 94,667, re-renewed Dec. 23, 1953. O. G. Feb. 9. Class 6.

Pyrene Manufacturing Company: *See*—
Pyrene Manufacturing Co.

Rathgeber Laboratories, New Haven, Conn. Wax polish. 585,530, Feb. 9; Serial No. 646,166, published Nov. 10, 1953. Class 4.

Rexall Drug Company, Los Angeles, Calif. Liver concentrate, ferrous gluconate with added vitamins, etc. 585,537, Feb. 9; Serial No. 646,426, published Oct. 27, 1953. Class 18.

Rexall Drug Company, Los Angeles, Calif. Medicinal preparations. 585,538, Feb. 9; Serial No. 646,427, published Oct. 27, 1953. Class 18.

Rhinopto Company, Dallas, Tex. Antihistaminic cold capsules. 585,539, Feb. 9; Serial No. 646,428, published Oct. 27, 1953. Class 18.

Richardson, Thos. D., Co., Philadelphia, Pa. Candy. 585,390, Feb. 9; Serial No. 614,570, published Nov. 3, 1953. Class 46.

Riker Laboratories, Inc., Los Angeles, Calif. Medicinal tablets. 585,480, Feb. 9; Serial No. 640,963, published Oct. 13, 1953. Class 18.

Rilling-Dermetics Company, The, New York, N. Y. Cold wave solution. 585,432, Feb. 9; Serial No. 632,798, published Nov. 10, 1953. Class 51.

Rival Manufacturing Company, Kansas City, Mo. Cooking apparatus. 585,534, Feb. 9; Serial No. 646,313, published Nov. 10, 1953. Class 13.

Rivero, Tomas y Hermanos S. L., Cadiz, Spain. Wines. 585,386, Feb. 9; Serial No. 608,771, published Nov. 10, 1953. Class 47.

Roly-Poly Corporation, Lima, Ohio, assignee of H. H. Minnick. Ice cream, ice-cream cones, ice-cream sandwiches, etc. 585,581, Feb. 9; Serial No. 623,613. Class 46.

Ross & Rowe, Inc., New York, N. Y. Lecithin. 585,425, Feb. 9; Serial No. 630,799, published Nov. 3, 1953. Class 6.

Rotareaed Corporation, The, Bronxville, N. Y. De-aeration apparatus. 585,443, Feb. 9; Serial No. 634,658, published July 28, 1953. Class 23.

Rubinstein, Helena, Inc., New York, N. Y. Facial masks used in connection with cosmetic treatments. 585,431, Feb. 9; Serial No. 632,746, published Nov. 10, 1953. Class 44.

S & S Trading Company, Gloversville, N. Y. Finished leathers. 585,505, Feb. 9; Serial No. 643,858, published Oct. 27, 1953. Class 1.

St. Louis Independent Packing Company: *See*—
Swift & Company.

St. Louis Paint Manufacturing Company, doing business as Shurway Paint Mfg. Co., St. Louis, Mo. Four-hour paint enamel, house paint, floor enamel, etc. 585,535, Feb. 9; Serial No. 646,320, published Nov. 3, 1953. Class 16.

Sandoz Chemical Works, Inc., New York, N. Y. Dyestuffs. 585,446, Feb. 9; Serial No. 635,197, published Nov. 10, 1953. Class 6.

Schenley Laboratories, Inc., New York, N. Y. Skin ointment. 585,551, Feb. 9; Serial No. 646,809, published Oct. 27, 1953. Class 18.

Schieffelin & Co., New York, N. Y. Rum and cola beverage. 585,429, Feb. 9; Serial No. 632,394, published Nov. 10, 1953. Class 49.

Seaplant Chemical Corporation, New Bedford, Mass. Whole Irish moss and refined whole Irish moss. 585,418, Feb. 9; Serial No. 629,256, published Oct. 27, 1953. Class 1.

Service Industries, Philadelphia, Pa. Non-poisonous metal hardening compound. 585,391, Feb. 9; Serial No. 614,574, published Nov. 10, 1953. Class 6.

Sherwood Bros., Inc., Baltimore, Md. Oil burners. 308,896, renewed Dec. 26, 1953. O. G. Feb. 9. Class 34.

Shurway Paint Mfg. Co.: *See*—
St. Louis Paint Manufacturing Company.

Skiatron Electronics & Television Corporation, New York, N. Y. Cathode ray tubes and television broadcasting and receiving equipment. 585,420, Feb. 9; Serial No. 629,825, published Nov. 3, 1953. Class 21.

Somavia, Roman, Hollister, Calif. Chinchillas. 585,471, Feb. 9; Serial No. 639,491, published Oct. 27, 1953. Class 1.

Southeastern Rubber Manufacturing Company, Inc., Athens, Ga. Camelback. 585,403, Feb. 9; Serial No. 623,629, published Nov. 10, 1953. Class 35.

Staley, A. E., Manufacturing Company, Decatur, Ill. Starch for industrial use. 585,412, Feb. 9; Serial No. 628,655, published Nov. 3, 1953. Class 6.

Standard Color & Chemical Co., Inc., North Bergen, N. J. Vinyl liquid used for spraying surfaces to produce a removable protective film. 585,593, Feb. 9; Serial No. 651,018. Class 16.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Motor fuels and lubricating oils. 585,540, Feb. 9; Serial No. 646,439, published Oct. 27, 1953. Class 15.

Standard Wire and Cable Company, Los Angeles, Calif. Portable rubber covered electrical cable. 585,475, Feb. 9; Serial No. 640,364, published Nov. 3, 1953. Class 21.

Steen, John A., Varnish Co., Chicago, Ill. Paint, varnish, enamel, etc. 585,473, Feb. 9; Serial No. 639,906, published Nov. 3, 1953. Class 16.

Sterling Drug Inc., New York, N. Y. Dyestuffs. 585,546, Feb. 9; Serial No. 646,630, published Nov. 3, 1953. Class 6.

Stern's Nurseries, Inc., Geneva, N. Y. Gladiolus bulbs. 585,525, Feb. 9; Serial No. 645,738, published Oct. 27, 1953. Class 1.

Stillman Company, The, Aurora, Ill. Medicated douche powder, antiseptic and hygienic jelly, etc. 585,558, Feb. 9; Serial No. 647,377, published Nov. 10, 1953. Class 18.

Stuart Company, The, Pasadena, Calif. Medicinal preparation. 585,477, Feb. 9; Serial No. 640,655, published Oct. 27, 1953. Class 18.

Swift & Company, Chicago, Ill. Lard. 585,433, Feb. 9; Serial No. 632,804, published Nov. 3, 1953. Class 46.

Swift & Company, doing business as St. Louis Independent Packing Company, Chicago, Ill., and St. Louis, Mo. Bacon. 585,512, Feb. 9; Serial No. 644,646, published Nov. 3, 1953. Class 46.

Tampax Incorporated, New York, N. Y. Deodorant powder. 585,388, Feb. 9; Serial No. 610,766, published Nov. 10, 1953. Class 51.

Technical Instrument Co.: *See*—
Yonkers, John L.

Texas Star Foods, Inc., San Antonio, Tex. Oleomargarine. 585,577, Feb. 9; Serial No. 610,872. Class 46.

Titanium Alloy Manufacturing Company, The, Niagara Falls, to National Lead Company, New York, N. Y. Chemical compounds. 310,412, renewed Feb. 27, 1954. O. G. Feb. 9. Class 6.

Toledo Desk and Fixture Company, The, Maumee, Ohio, assignor to Toledo Desk & Fixture Corporation. Combination sinks and cabinets. 585,394, Feb. 9; Serial No. 618,328, published Nov. 10, 1953. Class 13.

Toledo Desk & Fixture Corporation, assignee: *See*—
Toledo Desk and Fixture Company, The.

Triangle Finishing Corp., Johnstown, N. Y. Finishing fabrics of others. 585,562, Feb. 9; Serial No. 625,499, published Nov. 10, 1953. Class 106.

Turbo-Ray, Inc., New Rochelle, N. Y. Radiant base panel heating units. 585,385, Feb. 9; Serial No. 608,723, published Nov. 10, 1953. Class 34.

Underwood Corporation, New York, N. Y. Rebuilding, altering, repair, and maintenance of business machines. 585,568, Feb. 9; Serial No. 645,084, published Nov. 10, 1953. Class 103.

United Chemical Company, Inc., Kansas City, Mo. Cresol disinfectant. 309,845, renewed Feb. 6, 1954. O. G. Feb. 9. Class 6.

United Chemical Company, Inc., Kansas City, Mo. Liquid insecticide. 308,938, renewed Dec. 26, 1953. O. G. Feb. 9. Class 6.

United Feature Syndicate, Inc., New York, N. Y. Comic strip. 309,624, renewed Jan. 23, 1954. O. G. Feb. 9. Class 38.

United Feature Syndicate, Inc., New York, N. Y. Series of illustrated topics of interest appearing in a newspaper. 309,673, renewed Jan. 23, 1954. O. G. Feb. 9. Class 38.

United Feature Syndicate, Inc., New York, N. Y. Section or column appearing in a newspaper or periodical. 309,693, renewed Jan. 23, 1954. O. G. Feb. 9. Class 38.

United Feature Syndicate, Inc., New York, N. Y. Comic strip appearing in a newspaper. 309,694, renewed Jan. 23, 1954. O. G. Feb. 9. Class 38.

Upmann, H., & Co., by Menendez Garcia y Compania Limitada, Havana, Cuba. Cigars. 89,518, Dec. 17, 1912. Republished Feb. 9. Class 17.

Van Baerle & Co. Chemische Fabrik, Gernsheim (Rhine), Germany. Precipitated calcium silicate. 585,392, Feb. 9; Serial No. 615,523, published Feb. 10, 1953. Class 6.

Victaulic Company of America, Union, N. J. T wrenches, pipe wrenches, open end wrenches, etc. 585,492, Feb. 9; Serial No. 641,876, published July 14, 1953. Class 23.

Vis-Ko, Inc., Sumner, Wash. Compound for use in the eradication of fish. 585,472, Feb. 9; Serial No. 639,728, published Nov. 3, 1953. Class 6.

Waring Products Corporation, New York, N. Y. Electrical disintegrators and mixers. 585,384, Feb. 9; Serial No. 606,582, published Oct. 13, 1953. Class 21.

Watson, James, & Co. Limited, Seagate, Dundee, Scotland. Scotch whisky. 585,396, Feb. 9; Serial No. 622,284, published Nov. 3, 1953. Class 49.

Weinstein, Samuel, Chicago, Ill. Entertainment services. 585,564, Feb. 9; Serial No. 643,523, published Nov. 3, 1953. Class 107.

Welch Nurseries, Inc., The, Shenandoah, Iowa. Flower plants. 585,447, Feb. 9; Serial No. 635,208, published Nov. 10, 1953. Class 1.

West Coast Packing Corporation, Long Beach, Calif. Canned cat food. 585,582, Feb. 9; Serial No. 628,074. Class 46.

Westcott, Slade and Balcom Company, Providence, R. I. Dry paste and ready mixed paints, varnish, prepared shellac, and putty. 308,487, renewed Dec. 5, 1953. O. G. Feb. 9. Class 12.

Westwood Pharmaceuticals: *See*—
Foster-Milburn Company.

Weyand & Hogman Fish Company, Wyandotte, Mich. Fresh and frozen, cooked and raw seafoods. 585,462, Feb. 9; Serial No. 637,097, published Nov. 3, 1953. Class 46.

Wheel Trueing Tool Company, Detroit, Mich. Diamond impregnated tools. 585,393, Feb. 9; Serial No. 617,738, published July 14, 1953. Class 23.

Williams, J. B., Company, The, Glastonbury, Conn. Toilet soap. 95,276, re-renewed Feb. 3, 1954. O. G. Feb. 9. Class 52.

Williamson Candy Company, Chicago, Ill. Candy. 585,376, Feb. 9; Serial No. 590,207, published Apr. 8, 1952. Class 46.

Williamson, T. D., Inc., Tulsa, Okla. Insulating device. 585,458, Feb. 9; Serial No. 636,503, published Nov. 10, 1953. Class 13.

Wilson, A. L., Chemical Company, Kearny, N. J. Protein digester for albuminous stains. 585,488, Feb. 9; Serial No. 641,408, published Nov. 10, 1953. Class 52.

Wilson, A. L., Chemical Company, Kearny, N. J. Cleaning solvent. 585,489, Feb. 9; Serial No. 641,411, published Nov. 3, 1953. Class 52.

Winnen Incinerator Company, The, Bedford, Ohio. Commercial and domestic incinerators. 585,439, Feb. 9; Serial No. 633,644, published Oct. 27, 1953. Class 34.

Wisconsin Door Company, Livonia, Mich. Birch flush doors. 585,481, Feb. 9; Serial No. 640,988, published Nov. 10, 1953. Class 12.

Woodford, Joseph C., Ferrysburg, Mich. Hand sweeping device. 585,466, Feb. 9; Serial No. 638,751, published Nov. 3, 1953. Class 29.

Wroe, W. E., & Company, to Bradner Smith & Company, Chicago, Ill. Bond-paper. 42,194, renewed Mar. 8, 1954. O. G. Feb. 9. Class 37.

Yonkers, John L., doing business as Technical Instrument Co., Chicago, Ill. Hypodermic needles. 585,515, Feb. 9; Serial No. 645,024, published Nov. 10, 1953. Class 44.

Zurn, J. A., Mfg. Co., Erie, Pa. Cleanout fittings for gaining access in cleaning out horizontal and/or vertical piping, etc. 585,404, Feb. 9; Serial No. 624,376, published Nov. 10, 1953. Class 13.

Zurn, J. A., Mfg. Co., Erie, Pa. Cleanout fittings for gaining access in cleaning out horizontal and/or vertical piping, etc. 585,405, Feb. 9; Serial No. 624,378, published Nov. 10, 1953. Class 13.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Chinchillas. R. Somavia. 585,471, Feb. 9; Serial No. 639,491, published Oct. 27, 1953.

Christmas trees. Delta Gamma Pre-School Visually Handicapped Foundation of St. Louis. 585,524, Feb. 9; Serial No. 645,699, published Oct. 27, 1953.

Coal. Clover Fork Coal Company. 224,927, Mar. 8, 1927. Republished Feb. 9.

Flower plants. The Welch Nurseries, Inc. 585,447, Feb. 9; Serial No. 635,208, published Nov. 10, 1953.

Gladiolus bulbs. Stern's Nurseries, Inc. 585,525, Feb. 9; Serial No. 645,738, published Oct. 27, 1953.

Ground clay. H. E. Lowe, Jr. 585,520, Feb. 9; Serial No. 645,578, published Oct. 27, 1953.

Irish moss, Whole, and refined whole Irish moss. Seaplant Chemical Corporation. 585,418, Feb. 9; Serial No. 629,256, published Oct. 27, 1953.

Leather. Eagle-Ottawa Leather Company. 585,494–5, Feb. 9; Serial Nos. 642,205–6, published Oct. 27, 1953.

Leather. Eagle-Ottawa Leather Company. 585,496–8, Feb. 9; Serial Nos. 642,208–10, published Oct. 27, 1953.

Leather. Eagle-Ottawa Leather Company. 585,501, Feb. 9; Serial No. 642,626, published Oct. 27, 1953.

Leathers, Finished. S & S Trading Company. 585,505, Feb. 9; Serial No. 643,858, published Oct. 27, 1953.

Limestone, Dry ground. Harry T. Campbell Sons' Corp. 585,591, Feb. 9; Serial No. 644,008.

Polyethylene film in sheet form for the manufacture of bags. Extruders, Inc. 585,522, Feb. 9; Serial No. 645,641, published Oct. 27, 1953.

Rubber, Sponge and foam. The Armstrong Rubber Company. 585,400, Feb. 9; Serial No. 623,330, published Nov. 10, 1953.

CLASS 2

Boxes, Folding paper. The Marcus Company. 585,588, Feb. 9; Serial No. 642,291.

Cases, Jewel. Farrington Manufacturing Company. 585,589, Feb. 9; Serial No. 642,396.

Ornamental aluminum plated plastic articles, namely, cups, etc. H. W. Mesberg and M. Freeman. 585,573, Feb. 9; Serial No. 589,161.

CLASS 4

Buffing and polishing compounds. E. Reed Burns Mfg. Co. 585,541, Feb. 9; Serial No. 646,454, published Nov. 10, 1953.

Polish. L. Dore. 585,413, Feb. 9; Serial No. 628,851, published Nov. 10, 1953.

Polish, Wax. Rathgeber Laboratories. 585,530, Feb. 9; Serial No. 646,166, published Nov. 10, 1953.

Wax, Self-polishing floor. Lien Chemical Company. 585,575, Feb. 9; Serial No. 610,704.

CLASS 5

Adhesive vulcanizing cement, running board covering cement, etc. The Pep Boys—Manny, Moe & Jack. 310,951, renewed Mar. 13, 1954. O. G. Feb. 9.

CLASS 6

Chemical compounds. The Titanium Alloy Manufacturing Company. 310,412, renewed Feb. 27, 1954. O. G. Feb. 9.

Chemically treated paper indicators. Aseptic-Thermo Indicator Co. 585,536, Feb. 9; Serial No. 646,349, published Nov. 10, 1953.

Composition for adding to antifreeze solutions. The Dow Chemical Company. 585,527, Feb. 9; Serial No. 645,969, published Nov. 10, 1953.

Compound for hardening and alloying steel. Armor-Tuf Laboratories, Inc. 585,445, Feb. 9; Serial No. 635,115, published Nov. 3, 1953.

Compound for use in the eradication of fish. Vis-Ko, Inc. 585,472, Feb. 9; Serial No. 639,728, published Nov. 3, 1953.

Disinfectant, Cresol. United Chemical Company, Inc. 309,845, renewed Feb. 6, 1954. O. G. Feb. 9.

Dye reducing agents, and color stripping agents. E. I. du Pont de Nemours and Company. 585,521, Feb. 9; Serial No. 645,638, published Nov. 3, 1953.

Dyes and dyestuffs. Geigy Company, Inc. 585,547, Feb. 9; Serial No. 646,663, published Nov. 3, 1953.

Dyestuffs. Sandoz Chemical Works, Inc. 585,446, Feb. 9; Serial No. 635,197, published Nov. 10, 1953.

Dyestuffs. Sterling Drug Inc. 585,546, Feb. 9; Serial No. 646,630, published Nov. 3, 1953.

Fire-extinguishing compounds. Pyrene Manufacturing Co. 94,667, re-renewed Dec. 23, 1953. O. G. Feb. 9.

Flocculating and filtering reagent. American Cyanamid Company. 585,474, Feb. 9; Serial No. 640,249, published Nov. 3, 1953.

Fluid for hydraulic brakes, shock absorbers, and the like. General Motors Corporation. 585,417, Feb. 9; Serial No. 629,198, published Nov. 3, 1953.

Fluxes for soldering, All-metal. Metal Mending Products, Inc. 585,511, Feb. 9; Serial No. 644,510, published Nov. 10, 1953.

Insecticide, Liquid. United Chemical Company, Inc. 308,938, renewed Dec. 26, 1953. O. G. Feb. 9.

Lecithin. Ross & Rowe, Inc. 585,425, Feb. 9; Serial No. 630,799, published Nov. 3, 1953.

Non-poisonous metal hardening compound. Service Industries. 585,391, Feb. 9; Serial No. 614,574, published Nov. 10, 1953.

Oxide compositions, Rare earth. Mallinckrodt Chemical Works. 585,545, Feb. 9; Serial No. 646,562, published Nov. 3, 1953.

Precipitated calcium silicate. Van Baerle & Co. Chemische Fabrik. 585,392, Feb. 9; Serial No. 615,523, published Feb. 10, 1953.
Rust proofing compounds. Flexidraw Company. 585,401, Feb. 9; Serial No. 623,455, published Nov. 3, 1953.
Sanitizer, Liquid. Klenzade Products, Incorporated. 585,409, Feb. 9; Serial No. 626,384, published Nov. 3, 1953.
Solvents and diluents for adhesives and cements. Caram Manufacturing Company. 585,518, Feb. 9; Serial No. 645,544, published Nov. 3, 1953.
Starch for inuustrial use. A. E. Staley Manufacturing Company. 585,412, Feb. 9; Serial No. 628,655, published Nov. 3, 1953.
Textile resin finishes. Metro-Atlantic Inc. 585,548–9, Feb. 9; Serial Nos. 646,786–7, published Nov. 10, 1953.

CLASS 11

Additive for flexographic aniline inks. Central Compounding Company. 585,543, Feb. 9; Serial No. 646,322, published Nov. 10, 1953.
Ink pads. The National Marking Machine Company. 307,955, renewed Nov. 14, 1953. O. G. Feb. 9.
Ink, Steel. The DoAll Company. 585,424, Feb. 9; Serial No. 630,396, published June 16, 1953. (Consolidated certificate, Classes 11, 14, 15, 21, 23, 26, and 32.)

CLASS 12

Cement, Portland. Dyckerhoff Portland-Zementwerke A.-G. 585,414, Feb. 9; Serial No. 628,927, published Nov. 10, 1953.
Door casings. W. R. Lutze. 585,574, Feb. 9; Serial No. 605,218.
Doors, Birch flush. Wisconsin Door Company. 585,481, Feb. 9; Serial No. 640,988, published Nov. 10, 1953.
Fiber board, Waterproofed vegetable. Minnesota and Ontario Paper Company. 585,440, Feb. 9; Serial No. 634,050, published Nov. 10, 1953.
Materials and supplies used in the manufacture of burial vaults. Wilbert W. Haase Co. 585,410, Feb. 9; Serial No. 626,567, published Nov. 10, 1953.
Paints, Dry, paste and ready mixed, varnish, prepared shellac, and putty. Westcott, Slade and Balcom Company. 308,487, renewed Dec. 5, 1953. O. G. Feb. 9.
Shingles, Asbestos, and roofing. Johns-Manville Corporation. 308,534, renewed Dec. 5, 1953. O. G. Feb. 9.
Siding and wallboard. S. Mann. 585,469, Feb. 9; Serial No. 639,230, published Nov. 10, 1953.
Sintered aggregate used for building blocks, roofing aggregate and monolithic concrete. The Mineral Products Company. 585,579, Feb. 9; Serial No. 622,444.
Windows, doors, screens, and metal and wooden awnings. Nesco Corporation. 585,486, Feb. 9; Serial No. 641,321, published Nov. 10, 1953.

CLASS 13

Base metal cooking hollow ware. The Enterprise Aluminum Company. 585,428, Feb. 9; Serial No. 631,856, published Nov. 10, 1953.
Beverage sets all made of anodized aluminum. Heller Hostess-Ware, Inc. 585,467, Feb. 9; Serial No. 639,115, published Nov. 10, 1953.
Cleanout fittings for gaining access in cleaning out horizontal and/or vertical piping, etc. J. A. Zurn Mfg. Co. 585,404, Feb. 9; Serial No. 624,376, published Nov. 10, 1953.
Cleanout fittings for gaining access in cleaning out horizontal and/or vertical piping, etc. J. A. Zurn Mfg. Co. 585,405, Feb. 9; Serial No. 624,378, published Nov. 10, 1953.
Cooking apparatus. Rival Manufacturing Company. 585,534, Feb. 9; Serial No. 646,313, published Nov. 10, 1953.
Insulating device. T. D. Williamson, Inc. 585,458, Feb. 9; Serial No. 636,503, published Nov. 10, 1953.
Screen wire-cloth. American Wire Fabrics Corporation. 585,532, Feb. 9; Serial No. 646,254, published Nov. 3, 1953.
Shelf molding price tag holder. S. A. Hirsh Manufacturing Co. 585,457, Feb. 9; Serial No. 636,358, published Nov. 10, 1953.
Sinks and cabinets, Combination. The Toledo Desk and Fixture Company. 585,394, Feb. 9; Serial No. 618,328, published Nov. 10, 1953.
Urns, Tea and coffee. Cecilware-Commodore Products Corp. 585,533, Feb. 9; Serial No. 646,270, published Nov. 3, 1953.
Valves, Manning, Maxwell & Moore, Incorporated. 585,371, Feb. 9; Serial No. 621,974, published Oct. 14, 1952. (Consolidated certificate, Classes 13, 23, and 26.)
Water conditioning device. Porter and Brown Manufacturing Company. 585,452, Feb. 9; Serial No. 636,029, published Nov. 3, 1953.

CLASS 14

Steel, Tool. The DoAll Company. 585,424, Feb. 9; Serial No. 630,400, published June 9, 1953. (Consolidated certificate, Classes 11, 14, 15, 21, 23, 26, and 32.)

CLASS 15

Fuels, Motor, and lubricating oils. Standard Oil Company of California. 585,540, Feb. 9; Serial No. 646,439, published Oct. 27, 1953.
Lubricant and coolant. The DoAll Company. 585,424, Feb. 9; Serial No. 630,398, published July 14, 1953. (Consolidated certificate, Classes 11, 14, 15, 21, 23, 26, and 32.)
Mineral wax. American Lignite Products Co. 585,491, Feb. 9; Serial No. 641,827, published Oct. 27, 1953.

CLASS 16

Decalcomania color tones in the nature of paints or lacquers. Dupli-Color Products Co., Inc. 585,430, Feb. 9; Serial No. 632,420, published Nov. 10, 1953.
Paint enamel, Four-hour, house paint, floor enamel, etc. St. Louis Paint Manufacturing Company. 585,535, Feb. 9; Serial No. 646,320, published Nov. 3, 1953.
Paint, Interior wall. General Paint Corporation. 585,397, Feb. 9; Serial No. 622,649, published Nov. 10, 1953.
Paint or enamel coating. Water-resistant and protective. Inertol Co., Inc. 585,555, Feb. 9; Serial No. 646,943, published Nov. 10, 1953.
Paint, varnish, enamel, etc. John A. Steen Varnish Co. 585,473, Feb. 9; Serial No. 639,906, published Nov. 3, 1953.
Paints, Ready mixed, and enamels. International Paint Company, Inc. 585,523, Feb. 9; Serial No. 645,650, published Nov. 3, 1953.
Varnishes. De Soto Paint & Varnish Co. 585,383, Feb. 9; Serial No. 605,646, published Nov. 3, 1953.
Vinyl liquid used for spraying surfaces to produce a removable protective film. Standard Color & Chemical Co., Inc. 585,593, Feb. 9; Serial No. 651,018.

CLASS 17

Cigarettes. Abdulla & Company Limited. 41,614, renewed Dec. 8, 1953. O. G. Feb. 9.
Cigars. H. Upmann & Co. 89,518, Dec. 17, 1912. Republished Feb. 9.
Cigars, cheroots, and cigarettes. Hirschsprung, A. M. & Sonner Aktieselskab. 585,578, Feb. 9; Serial No. 617,641.

CLASS 18

Antibacterial preparation. Mathieson Chemical Corporation. 585,554, Feb. 9; Serial No. 646,885, published Oct. 27, 1953.
Antibiotic. American Cyanamid Company. 585,531, Feb. 9; Serial No. 646,194, published Oct. 27, 1953.
Antibiotic. American Cyanamid Company. 585,550, Feb. 9; Serial No. 646,917, published Oct. 27, 1953.
Antihistaminic cold capsules. Rhinopto Company. 585,539, Feb. 9; Serial No. 646,428, published Oct. 27, 1953.
Chemical and pharmaceutical preparations. Ilon Chemische Industrie G. m. b. H. 585,516, Feb. 9; Serial No. 645,043, published Nov. 3, 1953.
Emulsion of vitamins A, D, and C. Mead Johnson & Company. 585,503, Feb. 9; Serial No. 642,980, published Oct. 27, 1953.
Fructose in solution for parenteral administration. Mead Johnson & Company. 585,493, Feb. 9; Serial No. 641,942, published Oct. 27, 1953.
Fungicides, acne preparations, eye drops, etc. Kingsland-Ferguson, Inc. 585,570, Feb. 9; Serial No. 633,727, published Oct. 20, 1953.
Liver concentrate, ferrous gluconate with added vitamins, etc. Rexall Drug Company. 585,537, Feb. 9; Serial No. 646,426, published Oct. 27, 1953.
Medical preparation. Drug Specialties, Inc. 585,500, Feb. 9; Serial No. 642,530, published Oct. 27, 1953.
Medicated douche powder, antiseptic and hygienic jelly, etc. The Stillman Company. 585,558, Feb. 9; Serial No. 647,377, published Nov. 10, 1953.
Medicinal preparation. Chicago Pharmacal Company. 585,468, Feb. 9; Serial No. 639,153, published Oct. 27, 1953.
Medicinal preparation. The Stuart Company. 585,477, Feb. 9; Serial No. 640,655, published Oct. 27, 1953.
Medicinal preparations. Rexall Drug Company. 585,538, Feb. 9; Serial No. 646,427, published Oct. 27, 1953.
Medicinal tablets. Riker Laboratories, Inc. 585,480, Feb. 9; Serial No. 640,963, published Oct. 13, 1953.
Medicines for dogs, cats and foxes. H. Clay Glover Co., Inc. 585,389, Feb. 9; Serial No. 610,901, published June 24, 1952.
Muscle relaxant and vitamins. Ayerst, McKenna & Harrison Limited. 585,552, Feb. 9; Serial No. 646,842, published Oct. 27, 1953.
Nutritional supplement for use in protein deficiency. W. K. M. Hassenstein. 585,584, Feb. 9; Serial No. 636,527.
Ointment, Rectal. T. R. Hill. 585,553, Feb. 9; Serial No. 646,865, published Oct. 27, 1953.
Ointment, Skin. Schenley Laboratories, Inc. 585,551, Feb. 9; Serial No. 646,809, published Oct. 27, 1953.
Pharmaceutical preparation. Mead Johnson & Company. 585,514, Feb. 9; Serial No. 644,919, published Nov. 3, 1953.

CLASS 21

Cathode ray tubes and television broadcasting and receiving equipment. Skiatron Electronics & Television Corporation. 585,420, Feb. 9; Serial No. 629,825, published Nov. 3, 1953.
Electric terminals. Cook Electric Company. 585,423, Feb. 9; Serial No. 630,313, published Nov. 3, 1953.
Electrical apparatus. The DoAll Company. 585,424, Feb. 9; Serial No. 630,399, published June 2, 1953. (Consolidated certificate, Classes 11, 14, 15, 21, 23, 26, and 32.)
Electrical cable, Portable rubber covered. Standard Wire and Cable Company. 585,475, Feb. 9; Serial No. 640,364, published Nov. 3, 1953.
Electrical disintegrating machines. Elox Corporation of Michigan. 585,454, Feb. 9; Serial No. 636,072, published Nov. 3, 1953.
Electrical disintegrators and mixers. Waring Products Corporation. 585,384, Feb. 9; Serial No. 606,582, published Oct. 13, 1953.
Electrical terminal blocks. Ilsco Copper Tube & Products, Inc. 585,461, Feb. 9; Serial No. 636,983, published Nov. 3, 1953.
Heaters, Electric space. Federal Malleable Company. 585,519, Feb. 9; Serial No. 645,560, published Nov. 10, 1953.

CLASS 22

Fish bait, Canned. J. D. Ashley. 583,710, Dec. 15, 1953. Corrected. O. G. Feb. 9.
Fishing plug. M. F. Murray. 585,450, Feb. 9; Serial No. 635,608, published Nov. 3, 1953.

CLASS 23

Canvas cover for tractors, Fitted. Mason City Tent and Awning Co. 585,373, Feb. 9; Serial No. 586,293, published July 28, 1953.
De-aeration apparatus. The Rotareaed Corporation. 585,443, Feb. 9; Serial No. 634,658, published July 28, 1953.
Farm implements. Pittsburgh Forgings Company. 585,379, Feb. 9; Serial No. 598,387, published July 21, 1953.
Garment trimming machines. Consolidated Sewing Machine and Supply Co., Inc. 585,438, Feb. 9; Serial No. 633,568, published July 14, 1953.
Kitchen and table knives, forks and spoons. Ekco Products Company. 585,370, Feb. 9; Serial No. 551,703, published July 28, 1953.
Knives and forks. Farwell Ozmun, Kirk & Co. 65,209, Sept. 10, 1907. Republished Feb. 9.
Machine tools, parts and attachments for the machine tools, etc. The DoAll Company. Serial No. 630,394, published Sept. 29, 1953. (Consolidated certificate, Classes 11, 14, 15, 21, 23, 26, and 32.)
Material handling equipment. Manning, Maxwell & Moore, Incorporated. 585,371, Feb. 9; Serial No. 621,975, published Mar. 3, 1953. (Consolidated certificate, Classes 13, 23, and 26.)
Saw blades, Jeweler. O. Fox. 585,406, Feb. 9; Serial No. 625,415, published July 14, 1953.
Saws. Henry Disston & Sons, Incorporated. 95,608, renewed Mar. 3, 1954. O. G. Feb. 9.
Screw machines, chucking machines, wrenches, etc. The New Britain Machine Company. 195,032, Feb. 17, 1925. Republished Feb. 9.
Screw machines, chucking machines, wrenches, etc. The New Britain Machine Company. 195,979, Mar. 10, 1925. Republished Feb. 9.
Screw machines, chucking machines, wrenches, etc. The New Britain Machine Company. 195,981, Mar. 10, 1925. Republished Feb. 9.
Shears, scissors, razors, etc. Farwell, Ozmun, Kirk & Co. 64,701, Aug. 20, 1907. Republished Feb. 9.
Slitting wheel assembly. Cameron Machine Company. 585,485, Feb. 9; Serial No. 641,172, published July 14, 1953.
Tools, Diamond impregnated. Wheel Trueing Tool Company. 585,393, Feb. 9; Serial No. 617,738, published July 14, 1953.
Tools, Machine. The Lees-Bradner Company. 585,375, Feb. 9; Serial No. 587,387, published July 21, 1953.
Wrenches, T, pipe wrenches, open end wrenches, etc. Victaulic Company of America. 585,492, Feb. 9; Serial No. 641,876, published July 14, 1953.

CLASS 24

Clothesline reel. T. Himberger. 585,587, Feb. 9; Serial No. 638,718.

CLASS 26

Gaging instruments and attachments therefor. The DoAll Company. Serial No. 630,397, published Sept. 22, 1953. (Consolidated certificate, Classes 11, 14, 15, 21, 23, 26, and 32.)
Gauges, Indicating and recording pressure and vacuum, liquid level gauges, etc. Manning, Maxwell & Moore, Incorporated. 585,371, Feb. 9; Serial No. 560,491, published Feb. 3, 1953. (Consolidated certificate, Classes 13, 23, and 26.)

CLASS 28

Jewelry, Men's. Robert Allen Company. 585,583, Feb. 9; Serial No. 632,970.

CLASS 29

Brush handles and backs of brushes. Burwood Products Company. 585,455, Feb. 9; Serial No. 636,202, published Nov. 10, 1953.
Brushes, Fibre. Jerclaydon, Inc. 585,411, Feb. 9; Serial No. 628,002, published Nov. 3, 1953.
Hand sweeping device. J. C. Woodford. 585,466, Feb. 9; Serial No. 638,751, published Nov. 3, 1953.

CLASS 31

Components of refrigerator cabinets. Ionia Manufacturing Company. 585,378, Feb. 9; Serial No. 595,961, published Nov. 3, 1953.
Filter disks, rolls, and strips. Johnson & Johnson. 585,487, Feb. 9; Serial No. 641,381, published Oct. 13, 1953.
Filters, Air line. Hannifin Corporation. 585,435, Feb. 9; Serial No. 633,361, published Oct. 13, 1953.
Porous paper bags for filtering and collecting dust in vacuum cleaners. E. D. Foster. 585,374, Feb. 9; Serial No. 586,596, published Oct. 6, 1953.
Refrigerator, Automatic defrosting, and automatic defrosting system. Motor Products Corporation. 585,507, Feb. 9; Serial No. 644,053, published Nov. 3, 1953.

CLASS 32

Supply cabinets. The DoAll Company. Serial No. 630,395, published June 2, 1953. (Consolidated certificate, Classes 11, 14, 15, 21, 23, 26, and 32.)

CLASS 34

Air conditioning equipment. D. Berger. 585,502, Feb. 9; Serial No. 642,933, published Oct. 27, 1953.
Burners, Oil. Sherwood Bros., Inc. 308,896, renewed Dec. 26, 1953. O. G. Feb. 9.
Condenser tube. Calumet and Hecla Consolidated Copper Company. 585,382, Feb. 9; Serial No. 605,296, published Nov. 10, 1953.
Furnaces, Domestic. Oran Company. 585,504, Feb. 9; Serial No. 643,181, published Oct. 27, 1953.
Furnaces, Oil fired, gas fired furnaces, heat exchangers, etc. Cox Manufacturing Company. 585,464, Feb. 9; Serial No. 638,067, published Oct. 27, 1953.
Heating units, Radiant base panel. Turbo-Ray, Inc. 585,385, Feb. 9; Serial No. 608,723, published Nov. 10, 1953.
Incinerators, Commercial and domestic. The Winnen Incinerator Company. 585,439, Feb. 9; Serial No. 633,644, published Oct. 27, 1953.

CLASS 35

Camelback. Southeastern Rubber Manufacturing Company, Inc. 585,403, Feb. 9; Serial No. 623,629, published Nov. 10, 1953.
Tires, Automobile. Cooper Tire & Rubber Company. 585,590, Feb. 9; Serial No. 643,409.
Tires, Pneumatic. The B. F. Goodrich Company. 308,106, renewed Nov. 21, 1953. O. G. Feb. 9.
Tires, Pneumatic. The B. F. Goodrich Company. 308,974, renewed Dec. 26, 1953. O. G. Feb. 9.

CLASS 37

Bond-paper. W. E. Wroe & Company. 42,194, renewed Mar. 8, 1954. O. G. Feb. 9.
Paper, Bond. Fox River Paper Company. 307,870, renewed Nov. 7, 1953. O. G. Feb. 9.
Writing-paper. Sir Isaac Pitman & Sons, Ltd. 41,318, re-renewed Oct. 20, 1953. O. G. Feb. 9.

CLASS 38

Comic strip. United Feature Syndicate, Inc. 309,624, renewed Jan. 23, 1954. O. G. Feb. 9.
Comic strip appearing in a newspaper. United Feature Syndicate, Inc. 309,694, renewed Jan. 23, 1954. O. G. Feb. 9.
Section or column appearing in a newspaper or periodical. United Feature Syndicate, Inc. 309,693, renewed Jan. 23, 1954. O. G. Feb. 9.
Series of illustrated topics of interest appearing in a newspaper. United Feature Syndicate, Inc. 309,673, renewed Jan. 23, 1954. O. G. Feb. 9.

CLASS 39

Corsets, brassières, bust-supporters. Corset H Company. 95,748, re-renewed Mar. 10, 1954. O. G. Feb. 9.
Hosiery. Chas. Chipman's Sons Co., Inc. 310,026, renewed Feb. 6, 1954. O. G. Feb. 9.

CLASS 42

Blankets. F. C. Huyck & Sons. 307,889, renewed Nov. 7, 1953. O. G. Feb. 9.
Blankets. F. C. Huyck & Sons. 307,891–4, renewed Nov. 7, 1953. O. G. Feb. 9.
Blankets. F. C. Huyck & Sons. 307,896, renewed Nov. 7, 1953. O. G. Feb. 9.
Piece goods, Flannel and woolen. D. W. Farnsworth. 94,725, re-renewed Dec. 30, 1953. O. G. Feb. 9.

CLASS 44

Facial masks used in connection with cosmetic treatments. Helena Rubinstein Inc. 585,431, Feb. 9; Serial No. 632,746, published Nov. 10, 1953.

Hearing aids. Hal-Hen Company. 585,559, Feb. 9; Serial No. 647,415, published Nov. 10, 1953.
Hypodermic needles. J. L. Yonkers. 585,515, Feb. 9; Serial No. 645,024, published Nov. 10, 1953.
Porcelain for use by the dental profession, Prepared. The Columbus Dental Manufacturing Co. 585,476, Feb. 9; Serial No. 640,499, published Nov. 10, 1953.
Resuscitators. Air-Shields, Inc. 585,459, Feb. 9; Serial No. 636,672, published Nov. 10, 1953.
Sanitary napkins. Delicat, Inc. 585,402, Feb. 9; Serial No. 623,595, published Nov. 3, 1953.
Synthetic resins for use in restorative dentistry. Kay See Dental Mfg. Co. 585,372, Feb. 9; Serial No. 584,199, published Feb. 12, 1952.
Teethers, Babies'. Richard G. Krueger Inc. 585,499, Feb. 9; Serial No. 642,358, published Nov. 3, 1953.

CLASS 45

Beverage, Nonalcoholic maltless. The Delaware Punch Company of America. 585,572, Feb. 9; Serial No. 579,584.
Beverages, Nonalcoholic, noncereal, maltless. Chocolate Products Company. 585,408, Feb. 9; Serial No. 625,715, published Nov. 3, 1953.
Flavored syrups used in the preparation of non-alcoholic maltless soft drinks. Fred Fear & Co. 585,421, Feb. 9; Serial No. 629,936, published Nov. 3, 1953.
Fruit-flavored, non-alcoholic maltless syrups, concentrates and extracts. Bo-Mar Products, Inc. 585,387, Feb. 9; Serial No. 609,390, published Nov. 3, 1953.
Mineral water. Manantiales Peñafiel, S. A. 585,580, Feb. 9; Serial No. 622,654.

CLASS 46

Bacon. Hygrade Food Products Corporation. 585,586, Feb. 9; Serial No. 637,589.
Bacon. Swift & Company. 585,512, Feb. 9; Serial No. 644,646, published Nov. 3, 1953.
Breads. C. Leininger. 585,422, Feb. 9; Serial No. 630,138, published Nov. 3, 1953.
Candy. The Great Atlantic and Pacific Tea Company. 585,490, Feb. 9; Serial No. 641,448, published Nov. 3, 1953.
Candy. Thos. D. Richardson Co. 585,390, Feb. 9; Serial No. 614,570, published Nov. 3, 1953.
Candy. Williamson Candy Company. 585,376, Feb. 9; Serial No. 590,207, published Apr. 8, 1952.
Candy, Mint. The D. L. Clark Company. 585,381, Feb. 9; Serial No. 603,573, published Nov. 3, 1953.
Canned cat food. West Coast Packing Corporation. 585,582, Feb. 9; Serial No. 628,074.
Canned ham. Atalanta Trading Corporation. 585,482–3. Feb. 9; Serial Nos. 640,998–9, published Nov. 3, 1953.
Carrots, Fresh. Maggio Bros. Co. 585,441, Feb. 9; Serial No. 634,102, published Nov. 3, 1953.
Celery, Fresh, and fresh carrots. H. Forschmiedt. 585,509, Feb. 9; Serial No. 644,406, published Nov. 10, 1953.
Chemical preservatives for use in livestock feeds. Monsanto Chemical Company. 585,517, Feb. 9; Serial No. 645,504, published Nov. 10, 1953.
Chewing gum. Leaf Brands, Inc. 585,528, Feb. 9; Serial No. 645,995, published Nov. 3, 1953.
Chili. Hex Foods, Inc. 585,380, Feb. 9; Serial No. 601,147, published Nov. 3, 1953.
Chocolate crystals, Specially processed. R. G. Moench & Co., Inc. 585,526, Feb. 9; Serial No. 645,912, published Nov. 3, 1953.
Chocolate, Edible. Droste's Cacao- en Chocoladefabrieken, N. V. 585,395, Feb. 9; Serial No. 619,992, published Nov. 3, 1953.
Cocoa mix. General Foods Corporation. 585,484, Feb. 9; Serial No. 641,039, published Nov. 3, 1953.
Curing and preserving compounds, seasoning compounds, gum and cereal binders, etc. Fearn Foods Inc. 585,444, Feb. 9; Serial No. 634,974, published Nov. 10, 1953.
Dairy products: margarine and frozen dessert products. North American Creameries, Inc. 585,456, Feb. 9; Serial No. 636,247, published Nov. 10, 1953.
Feeds. Dannen Mills, Inc. 585,368, Feb. 9; Serial No. 543,902, published Nov. 10, 1953.
Flour, Wheat. International Milling Company. 585,508, Feb. 9; Serial No. 644,309, published Nov. 3, 1953.
Flour, Wheat. International Milling Company. 585,510, Feb. 9; Serial No. 644,418, published Nov. 3, 1953.
Fruits, Dried, and evaporated fruits. Edwards-Freeman, Inc. 585,479, Feb. 9; Serial No. 640,924, published Nov. 3, 1953.
Fruits, Fresh deciduous. Newcastle Fruit Growers Association. 201,978, Aug. 11, 1925. Republished Feb. 9.
Fruits, Fresh deciduous. C. M. Holtzinger Fruit Co., Inc. 585,478, Feb. 9; Serial No. 640,859, published Nov. 10, 1953.
Ice cream, ice-cream cones, ice-cream sandwiches, etc. Roly-Poly Corporation. 585,581, Feb. 9; Serial No. 623,613.
Lard. Swift & Company. 585,433, Feb. 9; Serial No. 632,804, published Nov. 3, 1953.
Macaroni. B. Filippone & Co. 311,567, renewed Mar. 27, 1954. O. G. Feb. 9.
Oat flour mix. Mary Jo's Products, Inc. 585,448, Feb. 9; Serial No. 635,272, published Nov. 3, 1953.
Oleomargarine. Northern Cocoanut Products Corporation. 309,734, renewed Jan. 30, 1954. O. G. Feb. 9.
Oleomargarine. Texas Star Foods, Inc. 585,577, Feb. 9; Serial No. 610,872.
Orange juice concentrate, Fresh frozen, fresh frozen grapefruit juice concentrate, frozen coffee, etc. Leigh Foods, Inc. 585,436–7, Feb. 9; Serial Nos. 633,547–8, published Nov. 3, 1953.
Package containing a pie crust mix and canned beef and vegetables and both used in the making of beef pies, Unitary. Krey Packing Company. 585,419, Feb. 9; Serial No. 629,372, published Nov. 3, 1953.
Pectin compositions, spray dried citric acid preparations and citrus fruit juices. Mutual Citrus Products Company. 585,449, Feb. 9; Serial No. 635,548, published Nov. 3, 1953.
Pellets for feeding chinchillas. Jess & C. A. Cutler, Inc. 585,544, Feb. 9; Serial No. 646,535, published Nov. 10, 1953.
Seafoods, Fresh and frozen, cooked and raw. Weyand & Hogman Fish Company. 585,462, Feb. 9; Serial No. 637,097, published Nov. 3, 1953.
Seeds, Wild bird. J. C. Oliger Seed Company. 585,529, Feb. 9; Serial No. 646,159, published Nov. 3, 1953.
Tea and coffee. Mabrand Products, Inc. 308,694, renewed Dec. 19, 1953. O. G. Feb. 9.
Vegetables, Fresh. C. Freedman. 585,592, Feb. 9; Serial No. 646,470.

CLASS 47

Wine, Champagne. A. Merand & Cie. 585,407, Feb. 9; Serial No. 625,610, published Nov. 3, 1953.
Wines. Berry Bros. & Co. 308,123, renewed Nov. 21, 1953. O. G. Feb. 9.
Wines. Fruit Industries, Ltd. 308,100, renewed Nov. 21, 1953. O. G. Feb. 9.
Wines. Fruit Industries, Ltd. 308,787, renewed Dec. 19, 1953. O. G. Feb. 9.
Wines. R. H. Macy & Co., Inc. 310,374, renewed Feb. 20, 1954. O. G. Feb. 9.
Wines. Tomas Rivero y Hermanos S. L. 585,386, Feb. 9; Serial No. 608,771, published Nov. 10, 1953.

CLASS 48

Beer. Berghoff Brewing Corporation. 585,557, Feb. 9; Serial No. 646,981, published Nov. 3, 1953.

CLASS 49

Alcoholic punch. Aktieselskabet Danisco. 585,399, Feb. 9; Serial No. 622,914, published Nov. 10, 1953.
Brandy. California Wine Association. 585,513, Feb. 9; Serial No. 644,663, published Nov. 3, 1953.
Brandy, Cognac. Thos. Hine & Co. 309,493, renewed Jan. 16, 1954. O. G. Feb. 9.
Gin, Straight dry. Coates & Company. 87,427, July 16, 1912. Republished Feb. 9.
Liquors. Fratelli Rossi. 585,377, Feb. 9; Serial No. 595,095, published Nov. 3, 1953.
Rum and cola beverage. Schieffelin & Co. 585,429, Feb. 9; Serial No. 632,394, published Nov. 10, 1953.
Spirits. Berry Bros. & Co. 308,122, renewed Nov. 21, 1953. O. G. Feb. 9.
Whiskey. Callison Wholesale Liquor Company. 585,442, Feb. 9; Serial No. 634,429, published Nov. 3, 1953.
Whiskey. Gooderham & Worts Limited. 327,789, Sept. 3, 1935. Republished Feb. 9.
Whiskey, Bourbon. Kentucky River Distillery, Incorporated. 585,398, Feb. 9; Serial No. 622,830, published Nov. 3, 1953.
Whisky, Scotch. MacDonald, Greenlees Limited. 585,434, Feb. 9; Serial No. 633,312, published Nov. 3, 1953.
Whisky, Scotch. James Watson & Co. Limited. 585,396, Feb. 9; Serial No. 622,284, published Nov. 3, 1953.

CLASS 51

Astringents, skin lotions, after shaving lotions, etc. Campana Corporation. 311,244, renewed Mar. 20, 1954. O. G. Feb. 9.
Cold wave solution. The Rilling-Dermetics Company. 585,432, Feb. 9; Serial No. 632,798, published Nov. 10, 1953.
Deodorant powder. Tampax Incorporated. 585,388, Feb. 9; Serial No. 610,766, published Nov. 10, 1953.
Eyebrow cream. Eeze Products, Inc. 585,416, Feb. 9; Serial No. 629,192, published Nov. 3, 1953.
Nail gloss. L. D. Hoskins. 308,127, renewed Nov. 21, 1953. O. G. Feb. 9.
Perfumes. Les Parfums de Jacques Griffe. 585,426, Feb. 9; Serial No. 631,212, published Nov. 10, 1953.
Shaving cream. Botany Mills, Inc. 585,556, Feb. 9; Serial No. 646,984, published Nov. 10, 1953.
Skin protective cream. Foster-Milburn Company. 585,451, Feb. 9; Serial No. 635,878, published Nov. 10, 1953.

CLASS 52

Cleaner, Concentrated soapless. Lien Chemical Company. 585,576, Feb. 9; Serial No. 610,705.
Cleaner for hands, Paste; paste cleaner for woodwork, etc. Better Brushes, Incorporated. 585,470, Feb. 9; Serial No. 639,413, published Nov. 10, 1953.
Cleaning compound of detergent character. H & K Manufacturing Company. 585,585, Feb. 9; Serial No. 636,848.

Cleaning preparation, Dry. Griffin Manufacturing Co., Inc. 585,506, Feb. 9; Serial No. 643,953, published Nov. 10, 1953.
Cleaning solvent. A. L. Wilson Chemical Company. 585,489, Feb. 9; Serial No. 641,411, published Nov. 3, 1953.
Cleansing composition, Liquid. Allied Home Products Corporation. 585,460, Feb. 9; Serial No. 636,958, published May 19, 1953.
Detergent, Synthetic. Armour and Company. 585,369, Feb. 9; Serial No. 548,469, published Nov. 10, 1953.
Dust absorbing composition. The Endust Corporation. 585,415. Feb. 9; Serial No. 629,094, published Oct. 27, 1953.
Organic solvent. Ansul Chemical Company. 585,465. Feb. 9; Serial No. 638,514, published July 21, 1953.
Perchlorethylene for use as a degreasing agent. Metalwash Machinery Company. 585,463, Feb. 9; Serial No. 637,283, published Nov. 3, 1953.
Protein digester for albuminous stains. A. L. Wilson Chemical Company. 585,488, Feb. 9; Serial No. 641,408, published Nov. 10, 1953.
Shampoos and toilet soaps. Beauty Counselors, Inc. 585,453, Feb. 9; Serial No. 636,058, published Nov. 3, 1953.
Soap. Iowa Soap Company. 585,542, Feb. 9; Serial No. 646,475, published Nov. 10, 1953.
Soap, Laundry. Beach Soap Company. 585,427, Feb. 9; Serial No. 631,645, published Oct. 27, 1953.
Soap, Toilet. The J. B. Williams Company. 95,276, re-renewed Feb. 3, 1954. O. G. Feb. 9.

CLASS 100

Drafting, designing, and supplying specifications and instructions for use in the construction of filter underdrain systems. The Permutit Company. 585,561, Feb. 9; Serial No. 621,026, published Nov. 3, 1953.
Providing consultation services for crippled persons. The National Society for Crippled Children and Adults, Inc. 585,569, Feb. 9; Serial No. 644,248, published Nov. 10, 1953.

CLASS 103

Commercial laundry and dry cleaning services. Polly Prim Laundries of America, Inc. 585,571, Feb. 9; Serial No. 637,147, published Nov. 10, 1953.
Industrial construction services. The Ferber Company. 585,565, Feb. 9; Serial No. 648,987, published Nov. 3, 1953.
Rebuilding, altering, repair, and maintenance of business machines. Underwood Corporation. 585,568, Feb. 9; Serial No. 645,084, published Nov. 10, 1953.
Spraying plastic coatings on pipe. Mal-Boc Pipeline Construction Company. 585,567, Feb. 9; Serial No. 647,209, published Nov. 3, 1953.

CLASS 104

Radio program broadcasting. Crosley Broadcasting Corporation. 585,563, Feb. 9; Serial No. 627,557, published Nov. 3, 1953.

CLASS 106

Finishing fabrics of others. Triangle Finishing Corp. 585,562, Feb. 9; Serial No. 625,499, published Nov. 10, 1953.
Services rendered manufacturers of all kinds of fabrics. Bradford Dyeing Association (U. S. A.) 585,566, Feb. 9; Serial No. 648,364, published Nov. 10, 1953.

CLASS 107

Conducting golf tournaments. Handmacher-Vogel, Inc. 585,560, Feb. 9; Serial No. 596,225, published Nov. 3, 1953.
Entertainment services. S. Weinstein. 585,564, Feb. 9; Serial No. 643,523, published Nov. 3, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF FEBRUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bowden, James J., Warren, Ohio. Fluidizing slag in the manufacture of steel by open hearth and electric furnace processes. Re. 23,778, Feb. 9.

California Research Corporation, assignee: *See*—
Cope, John Q., and Claussen.

Claussen, William H.: *See*—
Cope, John Q., and Claussen.

Cope, John Q., El Cerrito, and W. H. Claussen, Berkeley, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Selective solvent extraction of petroleum. Re. 23,779, Feb. 9.

Randol, Glenn T., Mountain Lake Park, Md. Automotive variable-speed transmission and control mechanism therefor. Re. 23,780, Feb. 9.

Schutt, Hermann C., Framingham, assignor to Stone & Webster Engineering Corporation, Boston, Mass. Spraying device. Re. 23,871, Feb. 9.

Stone & Webster Engineering Corporation, assignee: *See*—
Schutt, Hermann C.

LIST OF PLANT PATENTEES

Fujihara, Paul K., Del Rey, Calif. Grapevine. 1,250, Feb. 9.

LIST OF DESIGN PATENTEES

Addressograph-Multigraph Corporation, assignee: *See*—
Mitchell, Lester F.

Bernabó, Cayetano, Buenos Aires, Argentina. Dispensing cap for containers. 171,432, Feb. 9.

Bloomberg, Abe S., Swampscott, assignor to Bolta Products Sales, Inc., Lawrence, Mass. Quilted plastic fabric. 171,433, Feb. 9.

Bo-Low Lamp Corp., assignee: *See*—
Goldman, Robert, and Nemzer.

Bolta Products Sales, Inc., assignee: *See*—
Bloomberg, Abe S.

Borgfeldt, Robert R., Chicago, Ill. Drink stirrer or similar article. 171,434, Feb. 9.

Borowitz, David, assignor to Bradley Manufacturing Company, Chicago, Ill. Electric lamp base. 171,435, Feb. 9.

Boucher, Marcel, et Cie, assignee: *See*—
Semensohn, Raymonde.

Bradley Manufacturing Company, assignee: *See*—
Borowitz, David.

Breen, Frederick M., Westchester, assignor to Coty, Inc., New York, N. Y. Combined music box and container or similar article. 171,436, Feb. 9.

Breen, Frederick M., Westchester, assignor to Coty, Inc., New York, N. Y. Combined music box and container or similar article. 171,437, Feb. 9.

Bump, Zenas A., Fresno, Calif. Message rack or similar article. 171,438, Feb. 9.

Burlington Mills Corporation, assignee: *See*—
Maisch, Jacques E.

Chain Craft Co., assignee: *See*—
Deines, Erwin W.

Chapman, Harvey G., Jr., Glendale, Calif. Robot figure or similar article. 171,439, Feb. 9.

Chisholm, John J., Worcester, Mass. Garter clasp. 171,440, Feb. 9.

Cornick, Morris, Chicago, Ill. Tag dispensing device. 171,441, Feb. 9.

Coty, Inc., assignee: *See*—
Breen, Frederick M.

Deines, Erwin W., Cranston, R. I., assignor to Chain Craft Co. Ornamental chain. 171,442, Feb. 9.

Delphos Bending Company, The, assignee: *See*—
Peltier, Leslie C.

Flett, William J., Drexel Hill, assignor to Turnsignal Corporation, Philadelphia, Pa. Cover lens for turn signal devices. 171,443, Feb. 9.

General Tire & Rubber Company, The, assignee: *See*—
Kraft, Herman T.

Gervais, Robert L., Ceos Bay, Oreg. Egg frier. 171,444, Feb. 9.

Goldman, Robert, and R. R. Nemzer, South Hempstead, assignors to Bo-Low Lamp Corp., Brooklyn, N. Y. Music box nursery lamp. 171,445, Feb. 9.

Goldman, Robert, and R. R. Nemzer, South Hempstead, assignors to Bo-Low Lamp Corp., Brooklyn, N. Y. Lamp and costumer combination. 171,446, Feb. 9.

Goldman, Robert, and R. R. Nemzer, South Hempstead, assignors to Bo-Low Lamp Corp., Brooklyn, N. Y. Music box nursery lamp. 171,447, Feb. 9.

Goldman, Robert, and R. R. Nemzer, South Hempstead, assignors to Bo-Low Lamp Corp., Brooklyn, N. Y. Music box nursery lamp. 171,448, Feb. 9.

Hazzard, Harry I., Inglewood, and V. C. Tyrrell, Redondo, assignors to McCulloch Motors Corporation, Los Angeles, Calif. Chain saw. 171,449, Feb. 9.

Horvath, Anthony G., and W. H. Kuner, Dayton, and R. L. Wolfe, Springfield, Ohio. Electric motor. 171,450, Feb. 9.

Jacoby-Bender, Inc., assignee: *See*—
Rodriguez, Emil.

Kraft, Herman T., assignor to The General Tire & Rubber Company, Akron, Ohio. Pneumatic tire. 171,451, Feb. 9.

Kramer, Murray B., assignor to Richlite Manufacturing Company, Chicago, Ill. Clothes hanger. 171,452, Feb. 9.

Krohn, Abraham Z., Brooklyn, N. Y. Circumcising instrument. 171,453, Feb. 9.

Kuner, William H.: *See*—
Horvath, Anthony G., Kuner, and Wolfe.

Maisch, Jacques E., New York, N. Y., assignor to Burlington Mills Corporation, Greensboro, N. C. Textile fabric or similar article. 171,454, Feb. 9.

Manne, Moe, Hewlett, N. Y. Finger ring. 171,455, Feb. 9.

McCulloch Motors Corporation, assignee: *See*—
Hazzard, Harry I., and Tyrrell.

Minster Machine Company, The, assignee: *See*—
Wissman, Reuben E.

Mitchell, Lester F., Shaker Heights, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Duplicating machine. 171,456, Feb. 9.

Motor Wheel Corporation, assignee: *See*—
Wilson, Lawrence H.

Nemzer, Roy R.: *See*—
Goldman, Robert, and Nemzer.

Nestler, Herbert N.: *See*—
Willinger, Harding W., and Nestler.

Osman, Ralph T., Whitefish Bay, Wis. Electric lantern. 171,457, Feb. 9.

Peltier, Leslie C., assignor to The Delphos Bending Company, Delphos, Ohio. Child's rocking chair or similar article. 171,458, Feb. 9.

Petter, James H., North Bergen, N. J. Pendant scarecrow figure. 171,459, Feb. 9.

Reitzer, Paul, Sao Paulo, Brazil. Animated figure toy. 171,460, Feb. 9.

Richlite Manufacturing Company, assignee: *See*—
Kramer, Murray B.

Robbins, Edward S., Killen, assignor to Robbins Tire and Rubber Company, Tuscumbia, Ala. Carpet underlay rubber mat. 171,461, Feb. 9.

Robbins Tire and Rubber Company, assignee: *See*—
Robbins, Edward S.

Rodriguez, Emil, assignor to Jacoby-Bender, Inc., New York, N. Y. Expansible link chain for a bracelet or the like. 171,462, Feb. 9.
Rodriguez, Emil, assignor to Jacoby-Bender, Inc., New York, N. Y. Expansible link chain for a bracelet or the like. 171,463, Feb. 9.
Sarna, S. S., Inc., assignee: *See*—
Sarna, Sajjan S.
Sarna, Sajjan S., assignor to S. S. Sarna, Inc., New York, N. Y. Combined door knocker and bell. 171,464, Feb. 9.
Schroeder, Frank J., Rochester, N. Y. Combined ash tray and receptacle for smoking materials. 171,465, Feb. 9.
Schur, Frederick P., Arlington, Va. Cover for a hot-water bottle. 171,466, Feb. 9.
Semensohn, Raymonde, assignor to Marcel Boucher et Cie, New York, N. Y. Brooch or similar article. 171,467, Feb. 9.
Simon, Sidney, Los Angeles, Calif. Combined toothpaste, tootbrush, and razor rack. 171,468, Feb. 9.
Stock, Morris, New York, N. Y. Pin and nail removing tool. 171,469, Feb. 9.
Toohey, Joseph M., Affton, Mo. Tile. 171,470, Feb. 9.
Turnsignal Corporation, assignee: *See*—
Flett, William J.
Tyrrell, Vincent C.: *See*—
Hazzard, Harry L., and Tyrrell.
Walsh, William J., Lemay, Mo. Shoe heel. 171,471, Feb. 9.
Willinger, Harding W., and H. N. Nestler, New York, N. Y. Aquarium breeding trap. 171,472, Feb. 9.
Wilson, Lawrence H., Detroit, assignor to Motor Wheel Corporation, Lansing, Mich. Cabinet for a heater or the like. 171,473, Feb. 9.
Wissman, Reuben E., assignor to The Minster Machine Company, Minster, Ohio. Press. 171,474, Feb. 9.
Wolfe, Robert L.: *See*—
Horvath, Anthony G., Kuner, and Wolfe.
Yarger, Milton R., Morgantown, W. Va. Combination stand and table. 171,475. Feb. 9.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF FEBRUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abramson, Bertram N., Whippany, N. J., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. One shot rocket motor starting system. 2,668,412, Feb. 9.
Aero-Smith, Inc., assignee: *See*—
Grodson, Anthony G.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Beckel, Arthur C., and Belter.
Aircraft-Marine Products Inc., assignee: *See*—
Paules, Lemon B.
Ajax-Consolidated Company, assignee: *See*—
Bretz, Frank E., Jr.
Akkerman, Antony M.: *See*—
Veldstra, Haaye, and Akkerman.
Akron Standard Mold Company, assignee: *See*—
Bostwick, Henry C.
Alberts, Jacob L., Yonkers, L. N. Alberts, New York, and S. S. Alberts, Yonkers, assignors to Charma Brassiere Company, Inc., New York, N. Y. Maternity garment. 2,668,292, Feb. 9.
Alberts, Leon N.: *See*—
Alberts, Jacob L., L. N., and S. S.
Alberts, Sydney S.: *See*—
Alberts, Jacob L., L. N., and S. S.
Aldrich, Etro F.: *See*—
Stewart, Charles L., and Aldrich.
Allanson Armature Manufacturing Company, Limited, assignee: *See*—
Stewart, Henry R.
Allard, Pierre J.-M. T., Eaubonne, France. Automatic grab-bucket. 2,668,377, Feb. 9.
Allen, Charles F.: *See*—
Fern, Kenneth A., and Allen.
Allenby, William F., Stratford, assignor to The Bryant Electric Company, Bridgeport, Conn. Switch. 2,668,895, Feb. 9.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Blackwell, Edward J.
Kelle, Arthur C.
Lutz, Milton W.
Ross, Hugh L.
American Can Company, assignee: *See*—
Lawson, John M.
Winters, William P.
American Cyanamid Company, assignee: *See*—
Bentz, Alan P., West, and Turner.
Fern, Kenneth A., and Allen.
Gabel, Joseph W.
Lulek, Ralph N., and Ziegler.
American Optical Company, assignee: *See*—
Schauweker, George H.
American Tool Works Co., The, assignee: *See*—
Hoelscher, William G.
American Viscose Corporation, assignee: *See*—
Whytlaw, Graeme G.
Anchor Hocking Glass Corporation, assignee: *See*—
Migley, William J.
Anderson, Frank W., North Weymouth, assignor to Murphy Automatic Pinsetter Company, Inc., Somerville, Mass. Bowling pin handling machine. 2,668,713, Feb. 9.
Anderson, Rex R., Bay City, Mich. Apparatus for compartment heating. 2,668,666, Feb. 9.
Andis Clipper Co., assignee: *See*—
Andis, Mathew and M. G.
Andis, Mathew and M. G., assignors to Andis Clipper Co., Racine, Wis. Blade mounting and driver for hair clippers and the like. 2,668,351, Feb. 9.
Andis, Matthew G.: *See*—
Andis, Mathew and M. G.
Andreas, Herbert, assignee: *See*—
Radomski, Hans.
Anglin, Richard, Bridgeport, Conn. Loose-leaf binder. 2,668,541, Feb. 9.
Arcadia Metal Products, Inc., assignee: *See*—
Le Bon, Charles B., III.
Archer, Charles B., Homestead Park, Pa. Piano flange reamer and repinning tool. 2,668,463, Feb. 9.
Arkell and Smiths, assignee: *See*—
Robinson, Paul C.
Armstrong Cork Company, assignee: *See*—
Gard, George E.
Armstrong Siddeley Motors Limited, assignee: *See*—
Walker, Jack, and Leng.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Johannesen, Allan N.
Arne, Christian, Chicago, Ill., assignor to Chicago Bridge & Iron Company. Spherical segment tank and making same. 2,668,634, Feb. 9.
Arneson, Edwin L., Morris, assignor to Morris Paper Mills, Chicago, Ill. Bottle carrier. 2,668,653, Feb. 9.
Arnold, Hoffman & Co., Inc., assignee: *See*—
Robinson, Charles A.
Artmann, Maylock, New York, N. Y. Display device. 2,668,371, Feb. 9.
Arzt, Emanuel L., New York, N. Y. Adjustable stop for the spring clips of earrings. 2,668,341, Feb. 9.
Asbury, Howard C., Cactus, Tex., assignor to Phillips Petroleum Company. Removal of acidic substances from fluid mixtures by aqueous amine solutions and the prevention of corrosion therein. 2,668,748, Feb. 9.
Ashlock, George W., Jr., Oakland, Calif. Machine for handling fruit. 2,668,613, Feb. 9.
Atlas Powder Company, assignee: *See*—
Jefferson, George D., and Fine.
Attapulgus Minerals & Chemicals Corporation, assignee: *See*—
Houston, Wesley M.
Atwell, Henry G., Lake Villa, Ill. Ball catching and indicating device. 2,668,715, Feb. 9.
Atwood Vacuum Machine Company, assignee: *See*—
Lustig, Walter R.
Auburn Fishhook Company, Inc., assignee: *See*—
De Witt, William J., and Corbett.
Augustadt, Herbert W., Westfield, and W. F. Kannenberg, Gillette, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic volume control. 2,668,874, Feb. 9.
Austin, Merritt B., Jr., Deerfield, Ill. Lamp holder for reflector-type outdoor lamps. 2,668,901, Feb. 9.
Automatic Washer Company, assignee: *See*—
Emmert, Clayton F.
Auzin, John M., Warwick, R. I. Squeezable pop-out action toy. 2,668,394, Feb. 9.
Baak, Albert E., Pacific Palisades, assignor to P. Henry, Los Angeles, Calif. Snap-action thermostatic switch. 2,668,889, Feb. 9.
Bacchi, Eugene A., San Francisco, Calif. Lapidary tool. 2,668,400, Feb. 9.
Back, Leonard, assignor to The Interstate Folding Box Company, Middletown, Ohio. Transfer mechanism for sealing means. 2,668,708, Feb. 9.
Backstay Welt Company, assignee: *See*—
Welch, Herman P.
Backus, Thomas, assignor to Fuller Manufacturing Company, Kalamazoo, Mich. Fluid released clutch. 2,668,610, Feb. 9.
Bailey Meter Company, assignee: *See*—
Dickey, Paul S.
Bailey, William M., Company, assignee: *See*—
Bowland, Andrew.
Baker, Elvin E., Havertown, assignor to George P. Pilling & Son Company, Philadelphia, Pa. Surgical clamping means. 2,668,538, Feb. 9.
Banker, Oscar H., Evanston, assignor to New Products Corporation, Chicago, Ill. Transmission. 2,668,453, Feb. 9.
Barber-Colman Company, assignee: *See*—
Johnson, Claus G.
Barber, Harry J., Gidea Park, assignor to May & Baker Limited, Dagenham, England. Preparing aryloxymethyl halides. 2,668,860, Feb. 9.
Barcus, Edward L., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Auxiliary lamp snap-on filter. 2,668,903, Feb. 9.
Barefoot, Jocie C., Charlotte, N. C. Stop motion apparatus for wrapping machines. 2,668,404, Feb. 9.
Barker, William A., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Apparatus for impressing transfer designs upon pottery blanks. 2,668,384, Feb. 9.
Barker, William C., Jr., San Diego, Calif. Film developing hanger drip trough. 2,668,486, Feb. 9.
Barnett, Charles A., assignor to Young Brothers Company, Cleveland, Ohio. Heat processing apparatus. 2,668,366, Feb. 9.
Barradas, George, North Tarrytown, N. Y., and R. H. Motten, Jr., Darien, assignors to PM Industries, Incorporated, Stamford, Conn. Plastic injection device. 2,668,534, Feb. 9.
Barrett, Edward L., La Grange, Ill. Antenna rotator. 2,668,920, Feb. 9.

Barry-Wehmiller Machinery Company, assignee: *See*—
Wehmiller, Frederick W., and Nekola.

Barsky, Bernice E., Brooklyn, N. Y. Extensible knitting needle. 2,668,429, Feb. 9.

Bartolat, Albert F., Gardena, Calif. Excess flow cutoff valve with adjustable valve seat. 2,668,555, Feb. 9.

Bastin, Edgar J.: *See*—
Goldfield, Edwin R., Stava, and Bastin.

Bate, Stanley C., F. G. Peach, and W. A. Rogerson, Spondon, near Derby, England, assignors to British Celanese Limited. Production of cellulose. 2,668,761, Feb. 9.

Batten, Gerald R., Chicago, Ill. Compensator for shotguns. 2,668,479, Feb. 9.

Bayston, John R., trustee, assignee: *See*—
McShan, Dormon B.

Beach, Justice H., and J. E. Vance, Canton, assignors to The Hoover Company, North Canton, Ohio. Smoothing iron. 2,668,897, Feb. 9.

Beall, John E.: *See*—
Clark, Willis E., and Beall.

Beall, John E., assignee: *See*—
Martin, Earnest E.

Beckel, Arthur C., Peoria, and P. A. Belter, Pekin, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Protein adhesives. 2,668,766, Feb. 9.

Beech-Nut Packing Company, assignee: *See*—
Zimpel, Richard F.

Beecher, Blanche C., executrix: *See*—
Beecher, Henry W.

Beecher, Henry W., deceased, Seattle, Wash.; B. C. Beecher and H. W. Beecher, Jr., executors of said H. W. Beecher. Hearth type furnace. 2,668,521, Feb. 9.

Beecher, Henry W., Jr., executor: *See*—
Beecher, Henry W.

Belknap, Joel R., assignor to Fuel Process Company South Charleston, W. Va. Hydraulic scale. 2,668,702, Feb. 9.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Augustadt, Herbert W., and Kannenberg.
Gent, Edgar W., and Myers.
Graham, Robert E.
Hall, Nathan I., Hecht, and Koechling.
Harrison, Charles W.
Jonas, Herbert C., and Sears.
Stibitz, George R.

Belter, Paul A.: *See*—
Beckel, Arthur C., and Belter.

Bendix Aviation Corporation, assignee: *See*—
Crosby, Edward L., Jr.
McNaney, Joseph T.

Benner, William, Jr., Park City, Mont. Extensible handle for fishing landing nets. 2,668,386, Feb. 9.

Bennett, Arthur E. C., Kenton, England, assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Electrical condenser. 2,668,946, Feb. 9.

Bennett, Gordon C., Winchester, Mass. Can shield. 2,668,635, Feb. 9.

Benson, Le Roy J., Columbia, S. C. Check sorting machine. 2,668,706, Feb. 9.

Bentz, Alan P., Bound Brook, B. L. West, Plainfield, and R. J. Turner, Fanwood, N. J., assignors to American Cyanamid Company, New York, N. Y. Neutral calcium 4-aminosalicylate hemihydrate and preparation of the same. 2,668,852, Feb. 9.

Benzinger, Theodor H., Rockville, and C. Kitzinger, Bethesda, Md. Continuous record of interferometric gas analysis. 2,668,471, Feb. 9.

Bergmeister, Eduard, W. Gruber, and J. Heckmaier, Burghausen, Upper Bavaria, Germany, assignors to Wacker-Chemie G. m. b. H. Saponification of polyvinyl esters. 2,668,810, Feb. 9.

Berklege, Emil, Cleveland Heights, Ohio. Power load equalizer. 2,668,459, Feb. 9.

Berman, Morris, New York, N. Y. Stress determining instrument. 2,668,444, Feb. 9.

Best, Edward V.: *See*—
Best, Frank C. and E. V.

Best, Frank C. and E. V., Royal Oak, Mich. Fluid operated motor. 2,668,520, Feb. 9.

Binggely, Elmer C., Canton, assignor to The Hoover Company, North Canton, Ohio. Iron rest. 2,668,379, Feb. 9.

Birtman Electric Company, assignee: *See*—
Sparklin, Charles H.

Blackwell, Edward J., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Double casing pump. 2,668,502, Feb. 9.

Bloser, Dwight W., West Englewood, N. J., assignor to Kearfott Company, Inc., New York, N. Y. Electric machine construction. 2,668,925, Feb. 9.

Bondley, Ralph J., Scotia, N. Y., assignor to General Electric Company. Current collector. 2,668,923, Feb. 9.

Booth, Eugene T., Jr., New York, N. Y., and H. C. Paxton, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission. Syphon sealed pump. 2,668,656, Feb. 9.

Borg, George W., Corporation, The, assignee: *See*—
Johnston, Samuel A.
Van Alen, De Witt T.

Boston Gear Works—Division The Murray Company of Texas, Inc., assignee: *See*—
Schumb, Martin T.

Bostwick, Henry C., Coventry Township, Summit County, assignor to Akron Standard Mold Company, Akron, Ohio. Method of and apparatus for coating fabric on either or both faces. 2,668,572, Feb. 9.

Boticki, John I., Lake Milton, Ohio. Tongs with work holding jaws. 2,668,733, Feb. 9.

Bowering, Henry G., assignor to Kinney Manufacturing Company, Needham, Mass. Vacuum pump. 2,668,655, Feb. 9.

Bowers, Lee: *See*—
Conrad, Harry, and Bowers.

Bowland, Andrew, assignor to William M. Bailey Company, Pittsburgh, Pa. Goggle valve. 2,668,558, Feb. 9.

Boyajean, John A., Jr., Upper Montclair, N. J., assignor to Fairchild Camera and Instrument Corporation. Image-reproducing plate and cylinder assembly. 2,668,498, Feb. 9.

Boyko, Rudolph J., New York, N. Y. Medical exercising apparatus. 2,668,709, Feb. 9.

Bramblett, John J., assignor to Ben Pearson, Incorporated, Pine Bluff, Ark. Keeper means for cotton picking spindle slats. 2,668,409, Feb. 9.

Bramblett, John J., assignor to Ben Pearson, Incorporated, Pine Bluff, Ark. Cotton picking means. 2,668,410, Feb. 9.

Bretz, Frank E., Jr., Oak Park, assignor to Ajax-Consolidated Company, Chicago, Ill. Hand brake for railway cars. 2,668,457, Feb. 9.

Breyer, Frank G., Wilton, Conn., and A. Delruelle, Trooz, Belgium, assignors to Singmaster & Breyer, New York, N. Y. Continuous production of metallic zinc from Oxidic zinc ores. 2,668,760, Feb. 9.

Bridge, William O., Detroit, assignor to Evans Products Company, Plymouth, Mich. Trailer for carrying general freight and automobiles. 2,668,734, Feb. 9.

Bridgman, George A., assignor to Cutler Mail Chute Company, Rochester, N. Y. Mail chute lock. 2,668,434, Feb. 9.

Briscoe, Ernest V., Kerman, Calif. Lister unit for ditchers. 2,668,376, Feb. 9.

British Celanese Limited, assignee: *See*—
Bate, Stanley C., Peach, and Rogerson.

British Resin Products Limited, assignee: *See*—
Evans, Edward M., and Whitney.

Brixner, Berlyn, Los Alamos, N. Mex., assignor to the United States of America as represented by the United States Atomic Energy Commission. Continuous recording high speed frame camera. 2,668,473, Feb. 9.

Brockway, Murillo M., Glendale, Calif. Window well construction for autobuses. 2,668,735, Feb. 9.

Brouillette, Orice J., Galesburg, Ill. Bed patient elevator. 2,668,301, Feb. 9.

Brown, James E.: *See*—
Osburn, Joe C., and Brown.

Brown, Warren D.: *See*—
Sturtevant, Mark J., Weertman, and Brown.

Browner, William J., San Francisco, assignor to Relaxacizor, Inc., Los Angeles, Calif. Means for electrical therapy. 2,668,540, Feb. 9.

Brunswick-Balke-Collender Company, The, assignee: *See*—
Horn, Walter J.
Huck, William F.

Bryant Electric Company, The, assignee: *See*—
Allenby, William F.

Bryant, Harold W., Kenmore, N. Y., and W. R. Cornthwaite, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of high viscosity polyvinyl alcohol. 2,668,809, Feb. 9.

Budd, Lena M., Edgewood, Md. Edger and finisher. 2,668,568, Feb. 9.

Bunblasky, Adolph, New Canaan, and W. H. Henrich, Norwalk, assignors to Sorensen & Company, Inc., Stamford, Conn. Current regulator. 2,668,937, Feb. 9.

Bundy Tubing Company, assignee: *See*—
Mally, George G.

Burdick, Will S., Wauwatosa, and R. E. Meyer, Shorewood, assignors to Harnischfeger Corporation, Milwaukee, Wis. Torque transmitting eddy-current apparatus. 2,668,922, Feb. 9.

Burge, Harry, Delphos, Ohio. Apparatus for automatically opening cans, dispensing their contents, and flushing the cans. 2,668,550, Feb. 9.

Burger, Martin, Morris, Ill., assignor to General Package Corporation. Egg carton set-up device. 2,668,482, Feb. 9.

Burndy Engineering Company, Inc., assignee: *See*—
Lazar, Michael D.

Burnstein, George, Norristown, Pa. Pocket cigarette-making device. 2,668,545, Feb. 9.

Busch, Rudolph E., Lincoln Park, and E. L. Kurtzwarth, assignors to General Motors Corporation, Detroit, Mich. Polishing buff wheel. 2,668,398, Feb. 9.

Bustin, Leopold, Mamaroneck, N. Y. Grating. 2,668,484, Feb. 9.

Butterfield, John P., Grosse Pointe Woods, and H. W. Gilfillan, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission unit. 2,668,460, Feb. 9.

C & C Tool Corporation, assignee: *See*—
Cormany, David R.

Calcium Carbonate Company, assignee: *See*—
McHan, Brack B.

Calico Printers' Association Limited, The, assignee: *See*—
Lantz, Louis A., and Schofield.
Lantz, Louis A., Schofield, and Spinner.

California Reinforced Plastics Company, assignee: *See*—
Steele, Roger C.

Camco, Incorporated, assignee: *See*—
Howard, James H., and Mills.
Seyffert, Walter H., Jr.

Cameron, Alexander, Walkerville, Newcastle-upon-Tyne, England, assignor to Victor Products (Wallsend) Limited. Rock drilling equipment. 2,668,690, Feb. 9.

Campbell, Henry W., Shaker Heights, Ohio, and C. P. Johnson, Chicago, Ill., assignors to Interlake Iron Corporation, Cleveland, Ohio. Method and apparatus for charging blast furnaces. 2,668,628, Feb. 9.

Campbell, Oliver F.: *See*—
Piros, John J., and Campbell.

Canadian Refractories Limited, assignee: *See*—
Craig, James W.

Carbonneau Industries, Incorporated, assignee: *See*—
Coates, James N.

Carborundum Company, The, assignee: *See*—
Irvine, Robert A., and Kramarz.

Cardini, Norman E.: *See*—
Husaczka, Stephan, Johansen, and Cardini.

Carlsen, Earl W., Yakima, Wash, dedicated to the free use of the People in the territory of the United States. Bag-filling device with valved pivotally mounted chute. 2,668,648, Feb. 9.

Carlson, Norris W., Dayton, Ohio. Quick-release cargo container. 2,668,732, Feb. 9.

Carlson, Richard F., Weymouth, Mass. Golf tee. 2,668,710, Feb. 9.

Carlston, Ruth, Fresno, Calif. Combination horizontal and vertical electric and steam iron. 2,668,431, Feb. 9.

Carney, Samuel C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Method of and apparatus for liquid-liquid contacting. 2,668,756, Feb. 9.

Carter Carburetor Corporation, assignee: *See*—
Eberhardt, James E.

Casamento, Joseph R.: *See*—
Leopold, Rudolf, and Casamento.

Caulley, James F., assignee: *See*—
Doschek, Antony.

Century Lighting, Inc., assignee: *See*—
McCandless, Stanley.

Ceskoslovenske Textilni Zavody, narodni podnik, assignee: *See*—
Svatý, Vladimir.

Chall, Harold J.: *See*—
Crosman, Loring P., and Chall.

Chambers Corporation, assignee: *See*—
Chambers, John E.

Chambers, John E., Shelbyville, Ind., assignor to Chambers Corporation. Broiler reflector shield. 2,668,527, Feb. 9.

Chaney, Leonard P., Houston, Tex. Connecting means for electrical conductors. 2,668,948, Feb. 9.

Charma Brassiere Company, Inc., assignee: *See*—
Alberts, Jacob L., L. N., and S. S.

Chediater, Conkling, Livingston, N. Y. Hair drier. 2,668,367, Feb. 9.

Chenicek, Joseph A., Bensenville, assignor to Universal Oil Products Company, Chicago, Ill. Stabilization of edible fats and oils. 2,668,768, Feb. 9.

Chicago Bridge & Iron Company, assignee: *See*—
Arne, Christian.
Moyer, Frederick D.
Stiles, Lloyd C., and Davis.

Chisholm, Harry L., Jr., Buffalo, N. Y., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Telescopic shock absorber piston construction. 2,668,604, Feb. 9.

Chmielewski, Anton, Iron River, Mich. Salt attachment for pickup balers. 2,668,492, Feb. 9.

Christen, André, Limeil-Brevannes, France. Machine for cutting screw threads. 2,668,303, Feb. 9.

Christman, John M., Grosse Pointe Woods, Mich. Method and means for burring or chamfering gears. 2,668,480, Feb. 9.

Chrysler Corporation, assignee: *See*—
Butterfield, John P., and Gilfillan.
Janeway, Robert N.
Lamb, Ernest P.
Sturtevant, Mark J., Weertman, and Brown.

Ciba Limited, assignee: *See*—
Zollinger, Heinrich, and Ruegg.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Miescher, Karl, and Marxer.
Miescher, Karl, and Schmidlin.
Miescher, Karl, and Wieland.

Cincinnati Butchers' Supply Company, The, assignee: *See*—
Schmidt, Carl O., Jr.

Clark, John, Berkeley, Calif. Engraving device. 2,668,355, Feb. 9.

Clark, Robert L., Woodbridge, assignor to Merck & Co., Inc., Rahway, N. J. Alkanoic acid esters of amino-alcohols. 2,668,814, Feb. 9.

Clark, Willis E., assignee: *See*—
Martin, Earnest E.

Clark, Willis E., and J. E. Beall, Los Angeles, Calif. Air entrainment type popcorn dispenser. 2,668,640, Feb. 9.

Clark, Willis E., and J. E. Beall, Los Angeles, Calif. Apparatus for ejecting containers and filling popcorn thereinto. 2,668,649, Feb. 9.

Clay, Philip E. F., Radcliffe-on-Trent, England. Elastic fabric and manufacture thereof. 2,668,565, Feb. 9.

Clement, George F., Penn Township, Allegheny County, Pa. Adjustable pipe cleaner. 2,668,551, Feb. 9.

Clements, Norman T., Pittsburgh, Pa. Hollow structural building unit. 2,668,435, Feb. 9.

Cleveland Shopping News Company, The, assignee: *See*—
Lippitt, Stephen W.

Clotworthy, Charles B., Jr., Brooklandville, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for reeling filamentary articles. 2,668,673, Feb. 9.

Coates, James N., assignor to Carbonneau Industries, Incorporated, Grand Rapids, Mich. Commutator and manufacture therefor. 2,668,894, Feb. 9.

Cockrell, Welton R., Mexia, Tex. Leveling bracket. 2,668,744, Feb. 9.

Colgan, George T., Bridgeport, Conn. Washcloth provided with pockets for a hand of the user and a cake of soap. 2,668,309, Feb. 9.

Colgate-Palmolive-Peet Company, assignee: *See*—
Kline, William A., Monick, and Tarika.

Colton, Ralph F., assignor to Dry-Freeze Corporation, Chicago, Ill. Drying of materials by infrared radiation. 2,668,364, Feb. 9.

Columbian Carbon Company, assignee: *See*—
Lichtenfels, Merle F.

Combined Metals Reduction Company, assignee: *See*—
Marquardt, Carlton M.

Computer Research Corporation of California, assignee: *See*—
Wilson, Bernard T.

Conrad, Harry, and L. Bowers, Mount Morris, Ill. Stitch failure detector. 2,668,289, Feb. 9.

Conway, Joseph D., Cleveland Heights, Ohio. Nozzle structure for rotary brushing devices. 2,668,310, Feb. 9.

Corbett, Herbert A.: *See*—
De Witt, William J., and Corbett.

Cormany, David R., assignor to C & C Tool Corporation, Long Beach, Calif. Automatic power tongs. 2,668,889, Feb. 9.

Cornell-Dubilier Electric Corporation, assignee: *See*—
Bennett, Arthur E. C.
Dubilier, William.

Cornilleau, Marcel: *See*—
Violet, André, and Cornilleau.

Cornthwaite, William R.: *See*—
Bryant, Harold W., and Cornthwaite.

Craft, Chester R., St. Louis, Mo. Hydraulic oil well pump jack. 2,668,517, Feb. 9.

Craig, James W., assignor to Canadian Refractories Limited, Montreal, Quebec, Canada. Thermoplastic refractories. 2,668,775, Feb. 9.

Crane Co., assignee: *See*—
Hjulian, Julius A.

Creighton, Charles W., Jr., assignee: *See*—
Fredericks, Robert W.

Crookston, Robert R., and A. L. Seljos, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Device for giving angular motion when shifting jaw clutches. 2,668,450, Feb. 9.

Crosby, Edward L., Jr., Baltimore, assignor to Bendix Aviation Corporation, Towson, Md. Maximum gain-band width amplifier system. 2,668,881, Feb. 9.

Crosby, John W., assignee: *See*—
Crosby, Wilbur D.

Crosby, Wilbur D., assignor of twenty-five per cent to W. L. Hillman, Orinda, and twenty-five per cent to J. W. Crosby, Modesto, Calif. Hair vacuum cleaner. 2,668,315, Feb. 9.

Crosman, Loring P., Darien, Conn., and H. J. Chall, San Leandro, Calif., assignors to Remington Rand Inc., New York, N. Y. Accounting machine. 2,668,494, Feb. 9.

Cushman, Walton W., Webb City, Mo. Industrial truck. 2,668,602, Feb. 9.

Cutler Mail Chute Company, assignee: *See*—
Bridgman, George A.

Dahlman, Eben D., Grandy, Minn. Material handling and unloading device for vehicles. 2,668,629, Feb. 9.

Daimler-Benz Aktiengesellschaft, assignee: *See*—
Müller, Josef.

Dalton, Bruce H., Los Angeles, Calif., assignor, by mesne assignments, to Houston-Fearless Corporation. Folding tripod construction. 2,668,682, Feb. 9.

Danenberg, Alex, assignee: *See*—
Johnson, Willard J.

Danenberg, Louis, assignee: *See*—
Johnson, Willard J.

D'Arcy, Ellis W., assignor to De Vry Corporation, Chicago, Ill. Magnetic sound pickup recorder head and support therefor. 2,668,879, Feb. 9.

Darin, William, Lincoln Park, and J. J. Palid, Belleville, assignors to General Motors Corporation, Detroit, Mich. Spring winding machine. 2,668,349, Feb. 9.

Davidson, Glenn, Aurora, Ill. Cigarette mouthpiece material. 2,668,544, Feb. 9.

Davis, Robert A.: *See*—
Stiles, Lloyd C., and Davis.

Decher, Siegfried: *See*—
Oestrich, Hermann, Decher, and Stein.

Deere & Company, assignee: *See*—
Oehler, William P., and Immesoete.
Silver, Walter H., and Lohrman.

Deere, John, Van Brunt, Company, assignee: *See*—
Hyland, William A.

Deering Milliken Research Trust, assignee: *See*—
Klein, Norman E.

Deibel, Raymond, East Aurora, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield wiper. 2,668,725, Feb. 9.

Delruelle, Andre: *See*—
Breyer, Frank G., and Delruelle.

Dengrove, Edward, Interlaken, N. J. Vibrating bed. 2,668,302, Feb. 9.

Dermody, John M.: *See*—
Dermody, Thomas A. and J. M.

Dermody, Thomas A. and J. M., Breda, Iowa. Animal dellvery instrument. 2,668,539, Feb. 9.

Dermond, Lawrencee C., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Engine starting apparatus. 2,668,916, Feb. 9.

De Vito, Angelo R., Cleveland Heights, assignor, by mesne assignments, to R. I. Schonitzer, Cleveland, Ohio. Remote control apparatus for door control mechanisms. 2,668,730, Feb. 9.

Devoe & Reynolds Company, Inc., assignee: *See*—
Greenlee, Sylvan O.

De Vry Corporation, assignee: *See*—
D'Arcy, Ellis W.

De Witt, William J., and H. A. Corbett, assignors, by mesne assignments, to Auburn Fishhook Company, Inc., Auburn, N. Y. Fishhook making. 2,668,590, Feb. 9.

Dickey, Paul S., East Cleveland, Ohio, assignor to Bailey Meter Company. Vapor power control system and operating vapor power system. 2,668,915, Feb. 9.

Dietrich, Karl L., assignor to Selas Corporation of America, Philadelphia, Pa. Heating control system. 2,668,701, Feb. 9.

Dills, William L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Flameproofing textile materials. 2,668,784, Feb. 9.

Dixon, Frederick W., Reigate, assignor to Harry Ferguson Research Limited, Abbotswood, Stow-on-the-Wold, England. Automotive transmission with reverse brake. 2,668,609, Feb. 9.

Doschek, Antony, Crafton, assignor to J. S. Frost, Crafton, and J. F. Caulley, Brownsville, Pa. Automatic mortar and pestle device. 2,668,668, Feb. 9.

Dow Chemical Company, The, assignee: *See*—
Tolkmith, Henry.

Dowling, Edward D.: *See*—
Kershaw, Harold, and Dowling.

Driescher, Fritz, Jr., Moosburg, Germany. Contact mechanism for circuit breakers. 2,668,891, Feb. 9.

Droll, Joseph W., Chicago, Ill., assignor, by mesne assignments, to Meridan Corporation, Providence, R. I. Mattress winding and wrapping machine. 2,668,405, Feb. 9.

Drummondville Cotton Company Limited, assignee: *See*—
Lachapelle, Jerôme.

Dry-Freeze Corporation, assignee: *See*—
Colton, Ralph F.

Dubilier, William, New Rochelle, N. Y., assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Capacitor construction. 2,668,935, Feb. 9.

Dubuisson, Emile B.: *See*—
Eberle, William J., and Dubuisson.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Leopold, Rudolf, and Casamento

Dunshee, William E., Glenview, assignor to S & C Electric Company, Chicago, Ill. Snap-acting mechanism for opening electric switches and the like. 2,668,449, Feb. 9.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Bryant, Harold W., and Cornthwaite.
Dills, William L.
Hansley, Virgil L.
Harris, Charles R., and Sprauer.
Krchma, Ignace J.
Mueller, Alfred C.
Wernlund, Christian J.

Durksen, Theodore J., Oakland, Calif. Apparatus for dispensing stacked sheet material. 2,668,704, Feb. 9.

Eberhardt, James E., Webster Groves, assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor antiflooding device. 2,668,696, Feb. 9.

Eberle, William J., and E. B. Dubuisson, said Eberle assignor to I. B. Henson, Jr., Elsa, Tex. Plumber's tool. 2,668,511, Feb. 9.

Eckstein, George R., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Shell making process. 2,668,345, Feb. 9.

Eilar, Kendrick R., Minneapolis, Minn., assignor to General Mills, Inc. Surface active agents. 2,668,851, Feb. 9.

Ekstein, Charles, Brooklyn, assignor to Vitro Corporation of America, New York, N. Y. Photocell construction. 2,668,867, Feb. 9.

Electro-Mechanical Instrument Company, The, assignee: *See*—
Pfeffer, William E.

Elfving, Thore M., San Mateo, Calif., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Refrigerator car with fan and brine circulating system. 2,668,421, Feb. 9.

Ellerbeck, Grant C., San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc. Plural totalizer adding machine. 2,668,660, Feb. 9.

Elliott, Albert G., Quarndon, assignor to Rotol Limited, Gloucester, England. Anticing and intake means for turbine-propeller units. 2,668,596, Feb. 9.

Elly, Joyce: *See*—
Haward, Robert N., and Elly.

Emerol Manufacturing Co., Inc., assignee: *See*—
Pierce, Clayton B.

Emmert, Clayton F., assignor to Automatic Washer Company, Newton, Iowa. Control mechanism for spin-dry washing machines. 2,668,432, Feb. 9.

Emmons Loom Harness Company, assignee: *See*—
Leveque, Bernard T.

Ertl, Tell, Worthington, Ohio, assignor to Union Oil Company of California, Los Angeles, Calif. Loading apparatus. 2,668,630, Feb. 9.

Etablissements Merlin & Gerin (Societe Anonyme), The, assignee: *See*—
Latour, André.

Etablissements Saint Chamond-Granat, assignee: *See*—
Granat, Elie.

Evans, Edward M., and J. E. S. Whitney, Tonbridge, assignors to British Resin Products Limited, London, England. Polymeric vinyl phenol-aldehyde resins. 2,668,802, Feb. 9.

Evans, John M. T., assignor to The General Electric Company Limited, London, England. Ultrahigh-frequency radio signaling system. 2,668,907, Feb. 9.

Evans Products Company, assignee: *See*—
Bridge, William O.

Evans, Robert B., Plum Township, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Respirator with interchangeable filters. 2,668,532, Feb. 9.

Evans, Robert P., Kenmore, assignor to Sterilon Corporation, Buffalo, N. Y. Medical apparatus. 2,668,533, Feb. 9.

Evans, Thomas H., assignor to Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Micrometer dial mechanism. 2,668,515, Feb. 9.

Fairchild Camera and Instrument Corporation, assignee: *See*—
Boyajean, John A., Jr.

Farbenfabriken Bayer Aktiengesellschaft, assignee: *See*—
Gold, Heinrich, and Petersen.

Farries, John R., and J. P. Gigoux, Portland, Oreg. Instrument for operating on mitral valves. 2,668,536, Feb. 9.

Fat, Joseph K. C., Honolulu, Hawaii, assignor of one-half to E. Starr, San Francisco, Calif. Mechanical box opener. 2,668,569, Feb. 9.

Federighi, George J., and T. H. Noren, San Francisco, Calif. Magnetic mechanism for controlling flow of rinse water in dishwashing machines. 2,668,548, Feb. 9.

Ferguson, Harry, Inc., assignee: *See*—
King, Robert W.

Ferguson, Harry, Research Limited, assignee: *See*—
Dixon, Frederick W.

Fern, Kenneth A., Johannesburg, Transvaal, Union of South Africa, and C. F. Allen, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Separation of coarse light minerals in multiple cyclone-separator stages. 2,668,667, Feb. 9.

Ferris, Robert G., Harvard, Ill., assignor to Starline Inc. Latch mechanism for gates. 2,668,381, Feb. 9.

Finch, Roy L., Melcher, Iowa. Antijackknifing device for trailers. 2,668,720, Feb. 9.

Fine, Richard De Mott, III: *See*—
Jefferson, George D., and Fine.

Fischer, Karl A., Washington, D. C. Method and apparatus for electrooptical analysis of the crystalline content of liquids. 2,668,470, Feb. 9.

Fischgrund, Sidney, assignee: *See*—
Martin, Earnest E.

Fish-Schurman Corporation, assignee: *See*—
Schröder, Hubert.

Fisher, Nathan, Mount Kisco, N. Y. Headlamp rim light. 2,668,902, Feb. 9.

Flogaus, Howard A., Wallingford, assignor to South Chester Corporation, Chester, Pa. Rivet. 2,668,468, Feb. 9.

Folkins, Hillis O., Crystal Lake, and E. Miller, Evanston, Ill., assignors, by mesne assignments, to Food Machinery and Chemical Corporation, New York, N. Y. Production of carbon disulfide. 2,668,752, Feb. 9.

Fontein, Freerk J., assignor to Stamicarbon N. V., Heerlen, Netherlands. Multiple hydrocyclone. 2,668,620, Feb. 9.

Food Machinery and Chemical Corporation, assignee: *See*—
Folkins, Hillis O., and Miller.

Forbes, Richard H., Newton, Mass., assignor to the United States of America as represented by the Secretary of the Treasury. Means for marking glass tubes. 2,668,356, Feb. 9.

Fowler, Clarence H., Dalhart, Tex. Motor support. 2,668,687, Feb. 9.

Fox-Williams, Jack, London, assignor to Williams & Williams Limited, Chester, England. Glazed and like roof structure of the lantern light or deck light type. 2,668,509, Feb. 9.

Frankenstein, William P., assignee: *See*—
Freel, William G., and Jones.

Fredericks, Robert W., Kansas City, Mo., assignor to C. W. Creighton, Jr., Salem, Oreg. Toy submarine. 2,668,390, Feb. 9.

Freéd, Karl B., Stockholm, Sweden. Adjustable supporting device. 2,668,683, Feb. 9.

Freel, William G., and S. F. Jones, London, Ontario, Canada, assignors to W. P. Frankenstein, Cincinnati, Ohio, Carton. 2,668,654, Feb. 9.

Frick, Edwin J., Manhattan, Kans. Veterinary medical instrument. 2,668,528, Feb. 9.

Friden Calculating Machine Co., Inc., assignee: *See*—
Ellerbeck, Grant C.

Fried. Krupp Lokomotivfabrik, assignee: *See*—
Herrmann, Heinrich.

Friess, Hans, Karlsruhe-Daxlanden(Baden), assignor to Klangfilm Gesellschaft mit Beschraenkter Haftung, Berlin, Germany. Apparatus for stereophonic sound-recording. 2,668,880, Feb. 9.

Frost, Joseph S., assignee: *See*—
Doschek, Antony.

Frye, Carl, assignee: *See*—
Garland, Claude B.

Fuel Process Company, assignee: *See*—
Belknap, Joel R.

Fuller Brush Company, The, assignee: *See*—
McLaughlin, John L.
Parry, William A.

Fuller Company, assignee: *See*—
Lenhart, Herbert S.

Fuller Manufacturing Company, assignee: *See*—
Backus, Thomas.

Gabel, Joseph W., Sugar Grove, Ohio, assignor to American Cyanamid Company, New York, N. Y. Mounting means for multicomponent optical assemblies. 2,668,469, Feb. 9.

Gallardo, Tomas, New Orleans, La. Bait retaining fishhook. 2,668,387, Feb. 9.

Garapolo, Orlando: *See*—
Moss, Walter E., and Garapolo.

Gard, George E., East Hempfield Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Continuous mixer. 2,668,693, Feb. 9.

Garland, Claude B., Compton, assignor of one-half to C. Frye, Long Beach, Calif. Sheet metal shears with linkage. 2,668,352, Feb. 9.

Garland, Claude B., Compton, assignor of one-half to C. Frye, Long Beach, Calif. Telescopic hoisting boom. 2,668,625, Feb. 9.

Garrido, Fernando R., Guatemala City, Guatemala. Shiftable attachment for shirt collar tabs. 2,668,295, Feb. 9.

Geissman, Theodore A., Los Angeles, Calif. Preparation of dimethoxyresorcinol. 2,668,861, Feb. 9.

General Aniline & Film Corporation, assignee: *See*—
Nawinsky, Paul.

General Electric Company, assignee: *See*—
Bondley, Ralph J.
Hammell, Kemper M.
Hurford, Winslow L.
Illian, Douglas F.
McArthur, Elmer D.
Suits, Chauncey G.
Taft, Ernest A.

General Electric Company Limited, The, assignee: *See*—
Evans, John M. T.

General Mills, Inc., assignee: *See*—
Eilar, Kendrick R.

General Motors Corporation, assignee: *See*—
Barcus, Edward L.
Busch, Rudolph E., and Kurtzwarth.
Darin, William, and Palid.
Dermond, Lawrence C.
Henderson, Thomas J.
Jacobs, James W.
Jacobs, James W., and Grooms.
Johnson, Elbert L.
Lash, Joseph F.
Petkwitz, Carl F.
Schwyn, Raymond E., and Mitchel.

General Package Corporation, assignee: *See*—
Burger, Martin.
Russell, Henry R.
Wetzler, Justin J.

Gent, Edgar W., Morristown, N. J., and O. Myers, Mount Vernon, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromechanical translator. 2,668,877, Feb. 9.

Gerber, Dale C., assignor to The Hoover Company, North Canton, Ohio. Converter arrangement for suction cleaners. 2,668,313, Feb. 9.

Gerlat, Matthew E., Milwaukee, Wis. Fused plug and multiple tap for electrical cords. 2,668,885, Feb. 9.

Gerlitz, Reuben A., assignor to Robbins & Myers, Inc., Springfield, Ohio. Power roof ventilator. 2,668,491, Feb. 9.

Germany, Norman V., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Apparatus for impressing transfer designs upon pottery blanks. 2,668,383, Feb. 9.

Gibson, John W.: *See*—
Good, George M., Gibson, and Greensfelder.

Gibson Refrigerator Company, assignee: *See*—
Rutenber, Edwin A.

Giddings & Lewis Machine Tool Company, assignee: *See*—
Evans, Thomas H.

Gieszl, Hugh L., Gilbert, Ariz. Cleaner for mechanical cotton pickers. 2,668,330, Feb. 9.

Gigoux, John P.: *See*—
Farries, John R., and Gigoux.

Gilfillan, Henry W.: *See*—
Butterfield, John P., and Gilfillan.

Gilliberty, James V., West Hempstead, N. Y. Gas turbine power plant with duplexed blading. 2,668,413, Feb. 9.

Gilmore, Burdette B., Pelham Manor, N. Y., assignor to West Disinfecting Company. Flexible, nonelastic container of viscous material with rotary compress discharge pump. 2,668,637, Feb. 9.

Gilpin, Phyllis B., Woodacres, Md. Disposable hospital gown. 2,668,294, Feb. 9.

Gleasman, Vernon E., Elmira, N. Y. Rotary pump and motor type fluid transmission. 2,668,417, Feb. 9.

Gohorel, Fernand P., Antony, France, assignor to International Standard Electric Corporation, New York, N. Y. Double-selection electronic switching system. 2,668,876, Feb. 9.

Gold, Heinrich, Ipladen, and S. Petersen, Leverkusen-Schlebusch, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany. Whitening agents for organic materials. 2,668,777, Feb. 9.

Goldberg, Moses W., Upper Montclair, and A. I. Rachlin, Hackensack, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Basic ketones and salts thereof. 2,668,813, Feb. 9.

Goldberg, Moses W., Upper Montclair, and A. I. Rachlin, Hackensack, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Phenyl-phenethyl ketones. 2,668,850, Feb. 9.

Goldberg, Moses W., Upper Montclair, and L. M. Jampolsky, Clifton, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Alkylene-bis(oxyalkylene-ammonium) compounds. 2,668,855, Feb. 9.

Goldfield, Edwin R., and R. J. Stava, University Heights, assignors to Picker X-Ray Corporation, Waite Manufacturing Division, Inc., Cleveland, Ohio. X-ray apparatus. 2,668,912, Feb. 9.

Goldfield, Edwin R., and R. J. Stava, University Heights, and E. J. Bastin, assignors to Picker X-Ray Corporation, Waite Manufacturing Division, Inc., Cleveland, Ohio. X-ray apparatus. 2,668,913, Feb. 9.

Gonzalez del Valle, Angel, Madrid, Spain. Air tight joint for windows, doors, and the like. 2,668,333, Feb. 9.

Good, George M., Amsterdam, Netherlands, J. W. Gibson, and B. S. Greensfelder, Oakland, assignors to Shell Development Company, Emeryville, Calif. Isomerization of paraffin wax. 2,668,790, Feb. 9.

Good, George M., Albany, J. W. Gibson, and B. S. Greensfelder, Oakland, assignors to Shell Development Company, Emeryville, Calif. Isomerization of paraffin wax. 2,668,866, Feb. 9.

Goodfellow, Sumner, Bloomington, Ill. Armrest for vehicle seats. 2,668,582, Feb. 9.

Goodlet, Gilbert A., Weston, Mo. Tree-felling and log-sawing attachment for tractors. 2,668,566, Feb. 9.

Goodwin, George R., Seekonk, Mass., assignor to Miller Electric Co., Pawtucket, R. I. Injection molding machine. 2,668,325, Feb. 9.

Gorske, Stanley F., Indianapolis, Ind., assignor, by mesne assignments, to The Marquette Metal Products Company, Cleveland, Ohio. Making clutch springs. 2,668,347, Feb. 9.

Goss Printing Press Company, The, assignee: *See*—
McWhorter, Henry L.
Palmatier, Francois N.

Graham, Robert E., Chatham, N. J., assignor to Bell Telephone Laboratories Incorporated, New York, N. Y. Vertical synchronizing system. 2,668,873, Feb. 9.

Granat, Elie, assignor to Etablissements Saint Chamond-Granat, Paris, France. Reversible electromagnetic machine. 2,668,941, Feb. 9.

Graybill, Paul J., New Haven, Conn. Safety razor. 2,668,350, Feb. 9.

Greenlee, Sylvan O., Racine, Wis., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky. Compositions comprising polyepoxides and polyhydric phenol polyether alcohols having terminal phenolic groups. 2,668,805, Feb. 9.

Greenlee, Sylvan O., Racine, Wis., assignor to Devoe & Raynolds Company Inc., Louisville, Ky. Epoxide compositions. 2,668,807, Feb. 9.

Greensfelder, Bernard S.: *See*—
Good, George M., Gibson, and Greensfelder.

Greitzer, Meyer, Beverly Hills, Calif. Means for connecting chair back rests to tubular structural ends. 2,668,584, Feb. 9.

Griffith Laboratories, Inc., The, assignee: *See*—
Hall, Lloyd A.

Grill, Martin F., Hopkins, Minn. Guard for sink walls. 2,668,300, Feb. 9.

Grodson, Anthony G., assignor to Aero-Smith, Inc., Miami, Fla. Fastening device. 2,668,724, Feb. 9.

Grooms, Albert O.: *See*—
Jacobs, James W., and Grooms.

Gross, Bernard, San Diego, assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Coating the interior surfaces of tanks. 2,668,782, Feb. 9.

Grossman, Pauline, assignee: *See*—
Grossman, Samuel H.

Grossman, Samuel H., assignor to P. Grossman, Oakland, Calif. Nonslip handle for tooth or denture brushes. 2,668,308, Feb. 9.

Gruber, Wolfgang: *See*—
Bergmeister, Eduard, Gruber, and Heckmaier.

Gubernator, Grace, executrix: *See*—
Perry, Eugene L.

Gyro Process Company, The, assignee: *See*—
Holland, William W.

Haboush, Edward J., Brooklyn, N. Y. Prosthesis for hip joint. 2,668,531, Feb. 9.

Haffey, Jim, Oxford, Nebr. Motor vehicle window operator. 2,668,703, Feb. 9.

Hall, Lloyd A., assignor to The Griffith Laboratories, Inc., Chicago, Ill. Manufacture of meat-curing composition. 2,668,770, Feb. 9.

Hall, Lloyd A., assignor to The Griffith Laboratories, Inc., Chicago, Ill. Stable curing salt composition and manufacture thereof. 2,668,771, Feb. 9.

Hall, Nathan I., West Los Angeles, Calif., G. Hecht, Astoria, and C. D. Koechling, Floral Park, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic register for telephone switching systems. 2,668,931, Feb. 9.

Hall, William D., assignee: *See*—
Toulon, Pierre M. G.

Hals, Lyle J., St. Paul, T. S. Reid, New Canada Township, Ramsey County, and G. H. Smith, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Making perfluoro olefins. 2,668,864, Feb. 9.

Hamilton, Fred R., assignee: *See*—
Hamilton, Ralph A.

Hamilton, Ralph A., assignor of one-half to F. R. Hamilton, Glendale, Calif. Magnetically operated preselector. 2,668,588, Feb. 9.

Hamm, Philip C.: *See*—
Roos, Elizabeth S., and Hamm.

Hammell, Kemper M., Harrisburg, Pa., assignor to General Electric Company. Combination water heating and room cooling system and method employing heat pumps. 2,668,420, Feb. 9.

Hammell, Kemper M., Harrisburg, Pa., assignor to General Electric Company. Heat exchanger. 2,668,692, Feb. 9.

Hannay, Robert S. E., Carlisle, and W. Kilby, Bolton-le-Sands, Carnforth, assignors, by mesne assignments, to Standfast Dyers & Printing Limited, Lancaster, England. Process and apparatus for dyeing or performing related processes upon textile using molten metal. 2,668,747, Feb. 9.

Hansley, Virgil L., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing nonaqueous carbon dispersions. 2,668,757, Feb. 9.

Harmon, Charles F., Shawnee, Okla. Milling attachment for lathe. 2,668,719, Feb. 9.

Harnett, Russell H., New Rochelle, N. Y. Outboard motor support. 2,668,679, Feb. 9.

Harnischfeger Corporation, assignee: *See*—
Burdick, Will S., and Meyer.

Hurris, Charles R., Lockport, and J. W. Sprauer, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of hydrogen peroxide. 2,668,753, Feb. 9.

Harrison, Celia, Union City, N. J. Clothespin. 2,668,338, Feb. 9.

Harrison, Charles W., Gillette, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Vertical synchronizing system. 2,668,872, Feb. 9.

Hartung, Frederick A.: *See*—
Lesklewicz, Stanley, and Hartung.

Haward, Robert N., and J. Elly, Trafford Park, Manchester, assignors, by mesne assignments, to Styrene Products Limited, London, England. Suspension polymerization process. 2,668,806, Feb. 9.

Hay, Lehman E., Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa. Device for scraping and testing well tubing. 2,668,593, Feb. 9.

Haynes, Joseph E., Baltimore, Md. Retractable sash tightening device. 2,668,728, Feb. 9.

Hecht, George: *See*—
Hall, Nathan I., Hecht, and Koechling.

Heckmaier, Joseph: *See*—
Bergmeister, Eduard, Gruber, and Heckmaier.

Heller, Harold S., Cleveland Heights, Ohio. Front cover means for stapling machines. 2,668,290, Feb. 9.

Henderson, Thomas J., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Tube finishing machine. 2,668,461, Feb. 9.

Henrich, William H.: *See*—
Bunblasky, Adolph, and Henrich.

Henrich, William H., East Norwalk, assignor to Sorenson & Company, Inc., Stamford, Conn. Inverter for three-phase system. 2,668,938, Feb. 9.

Henry, Paul, assignee: *See*—
Baak, Albert E.

Henson, I. B., Jr., assignee: *See*—
Eberle, William J., and Dubisson.

Hepp, Carlos A., Englewood, N. J., assignor of fifty per cent to P. G. Hilbert, Astoria, N. Y. Cipher device. 2,668,369, Feb. 9.

Herman, Elvin E., Washington, D. C. Panoramic receiver bandpass compensation system. 2,668,908, Feb. 9.

Herman, Mervin J., Orrville, Ohio, assignor to Koppers Company, Inc., Pittsburgh, Pa. Pressure process for impregnating wood. 2,668,779, Feb. 9.

Hermanson, John, assignee: *See*—
Lesklewicz, Stanley, and Hartung.

Herr, John D., assignor of one-fourth to D. W. Mount, Minerva, Ohio. Packing retainer for journal boxes. 2,668,740, Feb. 9.

Herring, Robert A., Jr.: *See*—
Varela, Arthur A., and Herring.

Herrmann, Heinrich, Kettwig, assignor to Fried. Krupp Lokomotivfabrik, Essen, Germany. Remote control mechanism, especially for vehicles with fluid drive. 2,668,455, Feb. 9.

Heyl, Louis H., Rocky River, Ohio. Mold surface coating. 2,668,774, Feb. 9.

Hickok, John E., Berkeley Heights, and J. A. Ryan, Elizabeth, N. J., assignors to Standard Oil Development Company. Motor gasoline additive. 2,668,522, Feb. 9.

Hidy, Elmo D., Cincinnati, Ohio. Degree-day registering device. 2,668,445, Feb. 9.

Hilbert, Philip G., assignee: *See*—
Hepp, Carlos A.

Hillman, William L., assignee: *See*—
Crosby, Wilbur D.

Hines Flask Company, assignee: *See*—
Hines, James F.

Hines, James F., Lakewood, assignor, by mesne assignments, to Hines Flask Company, Cleveland, Ohio. Locking device for molding flasks. 2,668,335, Feb. 9.

Hjulian, Julius A., Palos Heights, assignor to Crane Co., Chicago, Ill. Automatic shaft reverser and torque governor machine. 2,668,451, Feb. 9.

Hjulian, Julius A., Palos Heights, assignor to Crane Co., Chicago, Ill. Reversing mechanism. 2,668,452, Feb. 9.

Hobbs, Howard F., assignor to Hobbs Transmission Limited, Leamington Spa, England. Variable-ratio power transmission apparatus. 2,668,552, Feb. 9.

Hobbs, Taz D., Alvin, Tex. Synchronized light and camera shutter system. 2,668,485, Feb. 9.

Hobbs Trnasmission Limited, assignee: *See*—
Hobbs, Howard F.

Hoelscher, William G., assignor to The American Tool Works Co., Cincinnati, Ohio. Conduit system for machine tools. 2,668,537, Feb. 9.

Hoffer, Temple P., assignor to Otis Pressure Control, Inc., Dallas, Tex. Two-zone pump. 2,668,500, Feb. 9.

Hoffmann-LaRoche Inc., assignee: *See*—
Goldberg, Moses W., and Jampolsky.
Goldberg, Moses W., and Rachlin.

Hogin, David R., Scarsdale, N. Y., assignor to Standard Oil Development Company. Apparatus for determining densities of finely divided solid materials in a fluidized body of such materials. 2,668,365, Feb. 9.

Holland, William W., Baltimore, Md., assignor to The Gyro Process Company, Detroit, Mich. Control of gas production in the vapor phase conversion of liquid hydrocarbons. 2,668,791, Feb. 9.

Holland, William W., Baltimore, Md., assignor to The Gyro Process Company, Detroit, Mich. Suppressing gas production in the vapor phase conversion of hydrocarbons. 2,668,792, Feb. 9.

Holland, William W., Baltimore, Md., assignor to The Gyro Process Company, Detroit, Mich. Apparatus for vapor phase conversion of hydrocarbons at constant temperatures. 2,668,793, Feb. 9.

Holzrichter, Robert F., and E. E. Overbey, assignors to The James Knights Company, Sandwich, Ill. Method and apparatus for correcting crystal blanks. 2,668,397, Feb. 9.

Hoover Company, The, assignee: *See*—
Beach, Justice H., and Vance.
Binggely, Elmer C.
Gerber, Dale C.
Kohl, Erhard O.
Segesman, Louis E.
Vance, John E.
Wilson, Herbert W.

Hoover, Vaino A., Los Angeles, Calif. Torque limiting clutch. 2,668,426, Feb. 9.

Horn, Walter J., Fort Dodge, Iowa, assignor, by mesne assignments, to The Brunswick-Balke-Collender Company, Chicago, Ill. Foldable platform stage. 2,668,331, Feb. 9.

Horton, Horace M., Gravette, Ark. Mailbox signal. 2,668,657, Feb. 9.

Houdaille-Hershey Corporation, assignee: *See*—
Chisholm, Harry L., Jr.

Houston-Fearless Corporation, assignee: *See*—
Dalton, Bruce H.

Houston, Wesley M., Lakeland, Fla., assignor to Attapulgus Minerals & Chemicals Corporation. Production of phosphate furnace feed. 2,668,617, Feb. 9.

Howard, James H., and P. R. Mills, assignors to Camco, Incorporated, Houston, Tex. Flow valve. 2,668,553, Feb. 9.

Howell, Vernon W., Albany, Calif. Tide-operated power plant. 2,668,918, Feb. 9.

Huard, Georges G., Paris, and R. J. E. Roger, Sureanes, France. Motor-driven wheeled toy. 2,668,391, Feb. 9.

Hubbell, Dean S., assignor to H. H. Robertson Company, Pittsburgh, Pa. Protected metal article. 2,668,348, Feb. 9.

Huck, William F., Forest Hills, N. Y., assignor to The Brunswick-Balke-Collender Company. Bowling ball retarder. 2,668,714, Feb. 9.

Hurford, Winslow L., North Syracuse, N. Y., assignor to General Electric Company. Amplifier for attenuating the higher frequency romponents of signals. 2,668,883, Feb. 9.

Husanczka, Stephan, and H. M. Johansen, New York, N. Y., and N. E. Cardini, Jersey City, N. J. Heater. 2,668,896, Feb. 9.

Hüter, Theodor F., Erlangen, Germany. Device for transmitting ultrasound energy. 2,668,529, Feb. 9.

Huyler's, assignee: *See*—
Wilson, John B.

Hyland, William A., Horicon, Wis., assignor to John Deere Van Brunt Company. Grain drill. 2,668,737, Feb. 9.

Iams, Harley A., Princeton, N. J., assignor to Radio Corporation of America. Radio viewing system. 2,668,869, Feb. 9.

Icecrafter (Liquidating) Trust, assignee: *See*—
McShan, Dormon B.

Illian, Douglas F., Oak Park, Ill., assignor to General Electric Company. Cyclic control program system. 2,668,589, Feb. 9.

Immesoete, Arthur J.: *See*—
Oehler, William P., and Immesoete.

Imperial Chemical Industries Limited, assignee: *See*—
Seed, John B.

Ingwersen, Richard C., assignor to Mechanical Products, Inc., Jackson, Mich. Circuit breaker. 2,668,886, Feb. 9.

Inland Steel Company, assignee: *See*—
Tenenbaum, Michael.

Interlake Iron Corporation, assignee: *See*—
Campbell, Henry W., and Johnson.

International Electronics Company, The, assignee: *See*—
Roberts, Bruce.

International Standard Electric Corporation, assignee: *See*—
Gohorel, Fernand P.
Ridler, Desmond S.
Violet, André, and Cornilleau.

Interstate Folding Box Company, The, assignee: *See*—
Back, Leonard.

Irvine, Robert A., and R. J. Kramarz, assignors to The Carborundum Company, Niagara Falls, N. Y. Apparatus for reconditioning used oil. 2,668,622, Feb. 9.

Irving, Albert J., Brewster, assignor to Permark Company, Inc., New York, N. Y. Container with pouring spout and composite blank for making same. 2,668,643, Feb. 9.

Isom, Warren R., West Collingswood, N. J., assignor to Radio Corporation of America. Adjustable lens unit mount. 2,668,476, Feb. 9.

Jack & Heintz, Inc., assignee: *See*—
Puchy, Clarence G.

Jackson, Donald R. P., Deptford, London, assignor to Molins Machine Company, Limited, Deptford, England. Wrapping or packing machine. 2,668,406, Feb. 9.

Jacksonville Steel Company, assignee: *See*—
King, Benjamin F.

Jacobs, Edwin N., Louisville, Ky. Combined rack and drier. 2,668,368, Feb. 9.

Jacobs, James W., and A. O. Grooms, assignors to General Motors Corporation, Dayton, Ohio. Testing apparatus for thermostatic switches. 2,668,436, Feb. 9.

Jacobs, James W., assignor to General Motors Corporation, Dayton, Ohio. Electrical switch apparatus. 2,668,884, Feb. 9.

Jampolsky, Lester M.: *See*—
Goldberg, Moses W., and Jampolsky.

Janeway, Robert N., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Rocker block axle mounting. 2,668,505, Feb. 9.

Jansen, Andries W., Rijswijk, Netherlands. Device for discharging fruit, bulbs, and similar articles from traveling conveyers. 2,668,651, Feb. 9.

Jefferson, George D., Embreeville, Pa., and R. D. Fine, III, Merchantville, N. J., assignors to Atlas Powder Company, Wilmington, Del. Filamentous textile having a processing finish. 2,668,785, Feb. 9.

Jenkins, Paul W., assignor to H. H. Robertson Company, Pittsburgh, Pa. Antistick coated, steel building sheet. 2,668,781, Feb. 9.

Johannesen, Allan N., Jeffersonville, Ind., assignor to the United States of America as represented by the Secretary of the Army. Receptacle and combined pouring spout, vent, and valve therefor. 2,668,642, Feb. 9.

Johansen, Haylett M.: *See*—
Husaczka, Stephan, Johansen, and Cardini.

Johnson, Carl P.: *See*—
Campbell, Henry W., and Johnson.

Johnson, Claus G., assignor to Barber-Colman Company, Rockford, Ill. Commutated wound armature assembly. 2,668,926, Feb. 9.

Johnson, Elbert L., Warren, Ohio, assignor to General Motors Corporation, Detroit, Mich. Fuse holder. 2,668,888, Feb. 9.

Johnson, Erik A.: *See*—
Stålhandske, David G., and Johnson.

Johnson Gage Development Company, The, assignee: *See*—
Johnson, Paul W.

Johnson, Paul W., Bloomfield, Conn., assignor, by mesne assignments, to The Johnson Gage Development Company. Multiple roller head and gauge. 2,668,362, Feb. 9.

Johnson, Willard J., Midland Park, N. J., assignor of one-third to L. Danenberg and one-third to A. Danenberg, Long Island City, N. Y. Means for treating the interior surface of tubing being extruded. 2,668,323, Feb. 9.

Johnson, Willard J., Midland Park, N. J., assignor of one-third to L. Danenberg and one-third to A. Danenberg, Long Island City, N. Y. Means for making creaseless, completely flattened, extruded plastic tubing. 2,668,324, Feb. 9.

Johnston, Charles S., assignor to Transportation Specialties Co., Chicago, Ill. Running board and means for attaching the same to the roof of railway cars. 2,668,507, Feb. 9.

Johnston, Franklin, St. Albans, W. Va., assignor to Union Carbide and Carbon Corporation. Plastic composition comprising a vinyl halide polymer and a phosphorus containing compound as a plasticizer therefor. 2,668,800, Feb. 9.

Johnston, Samuel A., Walworth, Wis., assignor to The George W. Borg Corporation, Chicago, Ill. Exposure timer of X-ray apparatus. 2,668,909, Feb. 9.

Jonas, Herbert C., Summit, and R. W. Sears, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,668,927, Feb. 9.

Jones, Bob, University, assignee: *See*—
Nichols, Ralph M.

Jones, Daniel C.: *See*—
Lichtenberg, Erich H., and Jones.

Jones, Joseph H., Canton, assignor to Republic Steel Corporation, Cleveland, Ohio. Hot top for ingot molds. 2,668,336, Feb. 9.

Jones, Lawrence R., Terre Haute, Ind., and P. C. Markunas, Winston-Salem, N. C. Stable anthrone. 2,668,797, Feb. 9.

Jones, Samuel F.: *See*—
Freel, William G., and Jones.

Jones, Walter I., Belmont, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Snap fastener assembly. 2,668,340, Feb. 9.

Jorgensen, Niels B., Los Angeles, Calif. Hypodermic syringe. 2,668,535, Feb. 9.

Jovanovitsch, Predrag, Maracay, Venezuela. Writing device. 2,668,516, Feb. 9.

Joy, Laura M., assignee: *See*—
Joy, Raymond L.

Joy, Raymond L., Prosser, Wash., assignor, by decree of distribution, to L. M. Joy. Seed distributor. 2,668,638, Feb. 9.

Kaiser Aluminum & Chemical Corporation, assignee: Porter, John L.

Kaman Aircraft Corporation, The, assignee: *See*—
Kaman, Charles H.

Kaman, Charles H., West Hartford, assignor to The Kaman Aircraft Corporation, Windsor Locks, Conn. Rotor control mechanism for aircraft of rotary wing type. 2,668,595, Feb. 9.

Kannenberg, Walter F.: *See*—
Augustadt, Herbert W., and Kannenberg.

Kapp, Karl A., Cleveland, Ohio. Surgical instrument. 2,668,537, Feb. 9

Kappen, John W., Dayton, Ohio. Article handling means. 2,668,681 Feb. 9.

Kaufman, Roy I., assignor to R. I. K., Incorporated, Marion, Ohio. Pneumatic vise having fixed jaw located between movable cylinder and movable jaw. 2,668,465, Feb. 9.

Kearfott Company, Inc., assignee: *See*—
Bloser, Dwight W.

Keese, Beverly W., Oshkosh, Wis., assignor, by mesne assignments, to Rockwell Spring and Axle Company, Coraopolis, Pa. Lubricating means for differential mechanisms. 2,668,601, Feb. 9.

Kelle, Arthur C., Stoughton, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Contact and arc runner structure for circuit interrupting devices. 2,668 892, Feb. 9.

Keller, Ervin J., Flint, Mich. Headspace gauge for firearms. 2,668,360, Feb. 9.

Kellogg, M. W., Company, The, assignee: *See*—
Kershaw, Harold, and Dowling.
Skaperdas, George T.
Skelly, Joseph F.

Kern, Frank, Jr., assignor to Maxitrol Company, Detroit, Mich. Gas regulator. 2,668,396, Feb. 9.

Kershaw, Harold, River Edge, N. J., and E. D. Dowling, Queens Village, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J. Plug-type control valve for fluidized catalyst conversion system. 2,668,755, Feb. 9.

Keys, James R., C. F. Van Buskirk, and H. D. Oberdorfer, assignors, by mesne assignments, to New Castle Products, Inc., New Castle, Ind. Closure pull member. 2,668,319, Feb. 9.

Kilby, William: *See*—
Hannay, Robert S. E., and Kilby.

Killan, James A.: *See*—
Killian, George P., and Killan.

Killian, George P., Alexandria, Va., and J. A. Kilian, Bethesda, Md. Field joint mold. 2,668,344, Feb. 9.

Kimmons, Jewel I., Miami, Fla. Ventilated shower curtain. 2,668,298, Feb. 9.

King, Benjamin F., Jacksonville, Fla., assignor to Jacksonville Steel Company. Fabricated steel beam. 2,668,606, Feb. 9.

King, Robert W., Birmingham, assignor to Harry Ferguson, Inc., Detroit, Mich. Drive axle for tractor-implement combinations. 2,668,597, Feb. 9.

Kingsbury, Thomas, Grayslake, assignor to L. B. Sax, Glencoe, Ill. Clinch ring. 2,668,399, Feb. 9.

Kinney Manufacturing Company, assignee: *See*— Bowering, Henry G.

Kircher, John C., Jr., Mountain View, Calif. Grass catcher for lawn mowers. 2,668,411, Feb. 9.

Kitzinger, Charlotte: *See*— Benzinger, Theodor H., and Kitzinger.

Klangfilm Gesellschaft mit Beschraenkter Haftung, assignee: *See*— Friess, Hans.

Klas, Harold W., Lansing, Mich. Faired towing means for antitorpedo devices. 2,668,512, Feb. 9.

Klein, Norman E., Stamford, assignor to Deering Milliken Research Trust, Greenwich, Conn. Winding machine. 2,668,671, Feb. 9.

Klein, Norman E., Pendleton, S. C., assignor to Deering Milliken Research Trust, New York, N. Y. Winding machine. 2,668,672, Feb. 9.

Klenk, Karl J., Wilmington, Del. Reciprocating power mower, steered by walking attendant. 2,668,408, Feb. 9.

Kliever, Waldo H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Molded resistance device. 2,668,932, Feb. 9.

Kline, William A., Morris Plains, J. A. Monick, Teaneck, and E. E. Tarika, East Orange, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Apparatus for agitating materials. 2,668,694, Feb. 9.

Kling, Wilbert F., Detroit, Mich. Bowling alley pin setting apparatus. 2,668,712, Feb. 9.

Kmiecik, Leopold J., assignor to McDonnell & Miller, Inc., Chicago, Ill. Thermostatic valve. 2,668,663, Feb. 9.

Knights, James, Company, The, assignee: *See*— Holzrichter, Robert F., and Overbey.

Koechling, Charles D.: *See*— Hall, Nathan I., Hecht, and Koechling.

Kohl, Erhard O., Massillon, assignor to The Hoover Company, North Canton, Ohio. Floor polisher. 2,668,306, Feb. 9.

Koppers Company, Inc., assignee: *See*— Herman, Mervin J.

Korn, Waldemar H., Dubuque, Iowa, assignor to Kornlube Products, Highland Park, Ill. Lubricating device. 2,668,739, Feb. 9.

Kornlube Products, assignee: *See*— Korn, Waldemar H.

Kraemer, Elmore A., assignor to West Bend Aluminum Co., West Bend, Wis. Surface temperature measuring instrument. 2,668,446, Feb. 9.

Kramarz, Roman J.: *See*— Irvine, Robert A., and Kramarz.

Krchma, Ignace J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Purification of by-product halide salts. 2,668,750, Feb. 9.

Krefting, Herman U., Vaenersborg, Sweden. Coupling for trailer vehicles. 2,668,723, Feb. 9.

Kurtzwarth, Emerson L.: *See*— Busch, Rudolph E., and Kurtzwarth.

Kwartz, Michael J., assignor of one-half to G. M. Trankla, Van Nuys, Calif. Fuel vaporizer for internal-combustion engines. 2,668,900, Feb. 9.

Kwik-Mix Company, assignee: *See*— Lichtenberg, Erich H., and Jones.

Lachapelle, Jerôme, St. Joseph, Quebec, assignor to Drummondville Cotton Company Limited, Montreal, Quebec, Canada. Loom stop motion. 2,668,562, Feb. 9.

Lamb, Ernest P., Grosse Pointe Park, assignor to Chrysler Corporation, Highland Park, Mich. Fan shroud. 2,668,523, Feb. 9.

Landau, Lucian, Chingford, London, assignor to Latex Industries Limited, London, England. Production of rubber products having an annular rim such as vaginal diaphragms. 2,668,329, Feb. 9.

Landis Machine Company, assignee: *See*— Reimschissel, Charles A.

Lantz, Louis A., and A. Schofield, assignors to The Calico Printers' Association Limited, Manchester, England. Manufacture of polyvinyl aromatic acetals and pigments therefrom. 2,668,803, Feb. 9.

Lantz, Louis A., A. Schofield, and E. Spinner, assignors to The Calico Printers' Association Limited, Manchester, England. Pigments and molding powders comprising polyvinyl acetal resins dyed with azo dyes. 2,668,804, Feb. 9.

Laros, R. K., Silk Company, assignee: *See*— Laros, Russell K.

Laros, Russell K., assignor to R. K. Laros Silk Company, Bethlehem, Pa. Stocking. 2,668,430, Feb. 9.

Laros, Russell K., assignor to R. K. Laros Silk Company, Bethlehem, Pa. Woven textile item and filament yarn. 2,668,564, Feb. 9.

Larsson, Olof E., Orebro, Sweden. Apparatus and process for corrugating paper. 2,668,573, Feb. 9.

Lash, Joseph F., Ferndale, assignor to General Motors Corporation, Detroit, Mich. Antihunting system for constant speed engines. 2,668,921, Feb. 9.

Latex Industries Limited, assignee: *See*— Landau, Lucian.

Latour, André, assignor to The Etablissements Merlin & Gerin (Societe Anonyme), Grenoble, France. Device for extinguishing electrical arcs. 2,668,890, Feb. 9.

Lawrence, Owen N., Dorridge, assignor to Joseph Lucas Limited, Birmingham, England. Means for automatically controlling the supply of liquid fuel to prime movers. 2,668,415, Feb. 9.

Lawson, John M., Simcoe, Ontario, Canada, assignor to American Can Company, New York, N. Y. Adjusting mechanism for feed dogs on conveyers. 2,668,614, Feb. 9.

Lazar, Michael D., New York, N. Y., assignor to Burndy Engineering Company, Inc. Mechanical indicating current limiter. 2,668,887, Feb. 9.

Le Bon, Charles B., III, Pasadena, assignor to Arcadia Metal Products, Inc., Arcadia, Calif. Guide device for a sliding door. 2,668,317, Feb. 9.

Le Bon, Charles B., III, Pasadena, assignor to Arcadia Metal Products, Inc., Arcadia, Calif. Adjustable support for sliding doors. 2,668,318, Feb. 9.

Lebus, William A., assignor to The Protectoseal Company, Chicago, Ill. Automatic parts washer. 2,668,549, Feb. 9.

Lee, Leighton, II, Rocky Hill, assignor to Niles-Bement-Pond Company, West Hartford, Conn. Control apparatus for jet engines. 2,668,414, Feb. 9.

Lee, Leighton, II, Rocky Hill, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Fuel control apparatus for turbojet engines. 2,668,416, Feb. 9.

Leng, Pennock: *See*— Walker, Jack, and Leng.

Lenhart, Herbert S., Allentown, assignor to Fuller Company, Catasauqua, Pa. Sampling apparatus. 2,668,447, Feb. 9.

Leopold, Rudolf, Oakland, and J. R. Casamento, West New York, assignors to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Transmitting tube socket. 2,668,949, Feb. 9.

Leskiewicz, Stanley, Lynn, and F. A. Hartung, Beverly, assignors to S. Leskiewicz, J. Hermanson, and J. Toll, copartners, doing business as North Shore Cutting Die Company, Lynn, Mass. Power bending machine for dies. 2,668,571, Feb. 9.

Leveque, Bernard T., Wenham, assignor to Emmons Loom Harness Company, Lawrence, Mass. Loom harness heddle frame. 2,668,559, Feb. 9.

Levy, Leonard L., Cedarhurst, N. Y. Combination blouse. 2,668,293, Feb. 9.

Lichtenberg, Erich H., Milwaukee, and D. C. Jones, assignors to Kwik-Mix Company, Port Washington, Wis. Drum mixer with power-operated discharge positioning means. 2,668,695, Feb. 9.

Lichtenfels, Merle F., Monroe, La., assignor to Columbian Carbon Company, New York, N. Y. Recovering carbon black from a gaseous suspension. 2,668,754, Feb. 9.

Lichty, Horace J., assignee: *See*— Schadt, Owen P.

Lierley, John T., Los Angeles, Calif. Movable stage construction and photographing system. 2,668,472, Feb. 9.

Lillard, Rufus B., El Paso, Tex., and W. W. Willard, Beaumont, Calif.; said R. B. Lillard assignor to said W. W. Lillard. Needle threader. 2,668,644, Feb. 9.

Lillard, William W.: *See*— Lillard, Rufus B. and W. W.

Lippitt, Stephen W., Lakewood, assignor to The Cleveland Shopping News Company, Cleveland, Ohio. Means for registering printing plates. 2,668,363, Feb. 9.

Litchfield, Mason R., Levelland, Tex. Calibrated calipers. 2,668,359, Feb. 9.

Little, Lonnie A., Elizabethton, and T. L. Williams, Watauga, Tenn., assignors to North American Rayon Corporation, New York, N. Y. Cake expander. 2,668,678, Feb. 9.

Lodge, Joseph E., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Clamp for connecting filamentary articles to moving traction elements. 2,668,337, Feb. 9.

Lohrman, William V.: *See*— Silver, Walter H., and Lohrman.

London, Herbert I.: *See*— London, Morton A. and H. I.

London, Morton A. and H. I., Philadelphia, Pa. Window curtain. 2,668,587, Feb. 9.

Lowe, James F., Wayne Township, Du Page County, Ill. Pie and pie crush blank. 2,668,767, Feb. 9.

Lucas, Joseph, Limited, assignee: *See*— Lawrence, Owen N.

Luckle, John H., East Rochester, N. Y. Curtain assembly and power drive therefor. 2,668,586, Feb. 9.

Luketa, Frank J., Seattle, Wash. Chair. 2,668,580, Feb. 9.

Luketa, Frank J., Seattle, Wash. Lounge chair. 2,668,581, Feb. 9.

Lulek, Ralph N., Rosebank, N. Y., and W. M. Ziegler, Clementon, N. J., assignors, by mesne assignments, to American Cyanamid Company, New York, N. Y. Penicillin salt of N,N'-bis-p,p'-carbodiethylaminoethoxyphenyl. 2,668,812, Feb. 9.

Lustig, Walter R., assignor to Atwood Vacuum Machine Company, Rockford, Ill. Hinged lid and hood support for motor vehicles. 2,668,320, Feb. 9.

Lutz, Milton W., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Multiple stage centrifugal pump. 2,668,501, Feb. 9.

M. P. H. Industries, assignee: *See*— Marihart, Leo A.

Madrid, David: *See*— Wormser, Paul, and Madrid.

Magerlein, Barney J., assignor to The Upjohn Company, Kalamazoo, Mich. 3,11 alpha, 20-triacyloxy-3,17(20)-pregnadienes and process. 2,668,817, Feb. 9.

Mailliart, Jean, Paris, France. Machine for the manufacture of hollow glass articles. 2,668,395, Feb. 9.

Malherbe, Roger F. D.: *See*— Navarre, Roger F. D. (dit Malherbe).

Mally, George G., assignor to Bundy Tubing Company, Detroit, Mich. Device for cooling bonded tubing. 2,668,510, Feb. 9.

Mapes, Daniel, West Caldwell, assignor to Specialties Development Corporation, Belleville, N. J. Fluid carbon dioxide composition. 2,668,419, Feb. 9.

Marihart, Leo A., Salinas, assignor to M. P. H. Industries, Palo Alto, Calif. Agricultural machine and hoeing device therefor. 2,668,487, Feb. 9.

Markunas, Peter C.: *See*— Jones, Lawrence R., and Markunas.

Marquardt, Carlton M., assignor to Combined Metals Reduction Company, Salt Lake City, Utah. Bubble tube for specific gravity meters. 2,668,438, Feb. 9.

Marquette Metal Products Company, The, assignee: *See*— Gorske, Stanley F. Sweet, Floyd H.

Martin, Earnest E., Pasadena, assignor to S. Fischgrund, J. E. Beall, and W. E. Clark, Los Angeles, Calif. Popcorn dispenser employing air entrainment means for corn transfer. 2,668,636, Feb. 9.

Martischang, Fredrick M., Yosemite National Park, Calif. Measuring soapbox device. 2,668,641, Feb. 9.

Marvel Specialty Company, assignee: *See*— Smith, Gus T.

Marxer, Adrian: *See*— Miescher, Karl, and Marxer.

Matta, Joseph S., Prichard, Ala. Clothespin. 2,668,339, Feb. 9.

Maumee Development Company, assignee: *See*— Schlaudecker, George F.

Maxitrol Company, assignee: *See*— Kern, Frank, Jr.

May & Baker Limited, assignee: *See*— Barber, Harry J.

McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. Magnetron. 2,668,929, Feb. 9.

McCandless, Stanley, Hamden, Conn., assignor to Century Lighting, Inc., New York, N. Y. Electric lighting fixture. 2,668,904, Feb. 9.

McDonnell & Miller, Inc., assignee: *See*— Kmiecik, Leopold J.

McHan, Brack B., Quincy, assignor to Calcium Carbonate Company, Chicago, Ill. Preparing calcium carbonate composition. 2,668,749, Feb. 9.

McLaughlin, John L., East Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Golf tee having ball supporting fibers. 2,668,711, Feb. 9.

McNaney, Joseph T., San Diego, Calif., assignor to Bendix Aviation Corporation, Towson, Md. Converter. 2,668,940, Feb. 9.

McShan, Dormon B., Indianapolis, Ind., assignor to J. R. Bayston, as trustee, Icecrafter (Liquidating) Trust, Van Nuys, Calif. Ice-making machine. 2,668,422, Feb. 9.

McVean, Raymond L., River Forest, Ill. Loose-leaf binder. 2,668,542, Feb. 9.

McWhorter, Henry L., Hinsdale, assignor to The Goss Printing Press Company, Chicago, Ill. Lockup for printing presses. 2,668,497, Feb. 9.

McWhorter, Henry L., Hinsdale, assignor to The Goss Printing Press Company, Chicago, Ill. Web supply reel for printing presses. 2,668,676, Feb. 9.

Mechanical Products, Inc., assignee: *See*— Ingwersen, Richard C.

Meckenstock, John W., assignor to Meckum Engineering, Inc., Chicago, Ill. Jet nozzle. 2,668,504, Feb. 9.

Meckum Engineering, Inc., assignee: *See*— Meckenstock, John W.

Meistrell, John V., Manhattan Beach, Calif. Switch operator for children. 2,668,456, Feb. 9.

Merck & Co., Inc., assignee: *See*— Clark, Robert L.

Merco Centrifugal Co., assignee: *See*— Peltzer, Albert, Sr.

Meridan Corporation, assignee: *See*— Droll, Joseph W.

Merriam, Frank R., Jr., assignor to Redmond Company, Inc., Owosso, Mich. Dynamoelectric machine. 2,668,924, Feb. 9.

Metcalf, Frank H., Los Angeles, Calif. Extension drawer support and guide structure. 2,668,745, Feb. 9.

Metzger, Walter F., Keyport, N. J. Dustproof damper. 2,668,684, Feb. 9.

Meyer, Frank A., Sharon Hill, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Turbine apparatus. 2,668,556, Feb. 9.

Meyer, Robert E.: *See*— Burdick, Will S., and Meyer.

Miescher, Karl, Riehen, and J. Schmidlin, Basel, Switzerland, assignors to Ciba Pharmaceutical Products Inc., Summit, N. J. Preparation of 17,20-hydroxyketones of the pregnane series and new and useful compounds of the said series. 2,668,816, Feb. 9.

Miescher, Karl, Riehen, and A. Marxer, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Azapentylene-diammonium compounds. 2,668,854, Feb. 9.

Miescher, Karl, Riehen, and P. Wieland, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Hydrindenedione derivatives and their preparation. 2,668,858, Feb. 9.

Migley, William J., assignor to Anchor Hocking Glass Corporation, Lancaster Ohio. Surface finishing glass and article produced thereby. 2,668,783, Feb. 9.

Miller Electric Co., assignee: *See*— Goodwin, George R.

Miller, Elmer: *See*— Folkins, Hillis O., and Miller.

Miller, Neville F., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Titanium dioxide pigment and preparing. 2,668,776, Feb. 9.

Miller, Philip, Flushing, N. Y. Lamp shade stud support. 2,668,906, Feb. 9.

Mills, Paul R.: *See*— Howard, James H., and Mills.

Mine Safety Appliances Company, assignee: *See*— Evans, Robert B.

Minneapolis-Honeywell Regulator Company, assignee: *See*— Kliever, Waldo H.

Minnesota Mining & Manufacturing Company, assignee: *See*— Hals, Lyle J., Reid, and Smith.

Mitchel, Ralph H.: *See*— Schwyn, Raymond E., and Mitchel.

Moffett, Frank W., Jr., Chili, N. Y. Apparatus for converting a hard frozen confection into a plastic state. 2,668,506, Feb. 9.

Molins Machine Company, Limited, assignee: *See*— Jackson, Donald R. P.

Monick, John A.: *See*— Kline, William A., Monick, and Tarika.

Monsanto Chemical Company, assignee: *See*— Roos, Elizabeth S., and Hamm.

Mood, Paul, assignee: *See*— Pfeffer, William E.

Moore, John A., Denver, Colo. Earth boring bit. 2,668,691, Feb. 9.

Moore, Nelson, assignee: *See*— Toulon, Pierre M. G.

Morin, Louis H., Bronx, N. Y. Electric lamp switch construction. 2,668,905, Feb. 9.

Mornik, George B., Mounds View Township, Ramsey County, Minn. Powder spray gun. 2,668,594, Feb. 9.

Morren, Henri, Forest-Brussels, assignor to Union Chimique Belge, S. A., Brussels, Belgium. P-methoxy benzhyGryl ethers. 2,668,856, Feb. 9.

Morris Paper Mills, assignee: *See*— Arneson, Edwin L.

Morrison, Montford, Upper Montclair, N. J. Amplifier. 2,668,882, Feb. 9.

Morrison, Robert W., Kansas City, Mo. Magnetic toy. 2,668,389, Feb. 9.

Morsch, Jesse J., Douglas, Wyo. Rolling ball game device. 2,668,716, Feb. 9.

Moser, Homer D., assignor to The Wayne Pump Company, Fort Wayne, Ind. Nozzle lock. 2,668,680, Feb. 9.

Moss, Walter E., Brookfield, and O. Garapolo, Chicago, Ill., assignors to Wilson & Co., Inc. Weighing system. 2,668,493, Feb. 9.

Motorola, Inc., assignee: *See*— Schlesinger, Kurt.

Motten, Roger H., Jr.: *See*— Barradas, George, and Motten.

Mount, Dick W., assignee: *See*— Herr, John D., and Mount.

Mourlaque, Gaston A., Levallois-Perret, assignor to Societe Nouvelle des Etablissements Brandt, Paris, France. Bomb for laying wire entanglements. 2,668,499, Feb. 9.

Moyer, Frederick D., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Apparatus for gauging. 2,668,358, Feb. 9.

Mueller, Alfred C., Chadds Ford, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Cooling vaporous materials. 2,668,424, Feb. 9.

Müller, Josef, Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Frame for motor vehicles. 2,668,722, Feb. 9.

Mulvany, Harry A., Berkeley, Calif. Bleaching process. 2,668,772, Feb. 9.

Munroe, David J., assignor to Webster Electric Company, Racine, Wis. Filtering apparatus. 2,668,623, Feb. 9.

Munroe, David J., assignor to Webster Electric Company, Racine, Wis. Transducer. 2,668,878, Feb. 9.

Murphy Automatic Pinsetter Company, Inc., assignee: *See*— Anderson, Frank W.

Murray, Alan E., New York, N. Y. Making shoes for normal wear. 2,668,304, Feb. 9.

Myers, Oscar: *See*— Gent, Edgar W., and Myers.

N. V. Amsterdamsche Chininefabriek, assignee: *See*—
Veldstra, Haaye, and Akkerman.

National Dairy Research Laboratories, Inc., assignee: *See*—
Stimpson, Edwin G.

National Gypsum Company, assignee: *See*—
Wolfe, Henry J.

National Lead Company, assignee: *See*—
Panik, Irene M., and Sullivan.

Nauta, Johannes E., Overveen, Netherlands. Method and device for conching a chocolate mass and the like. 2,668,764, Feb. 9.

Navarre, Roger F. D. (dit Malherbe), Paris, France, assignor to Societe Anonyme dite: Ateliers de Constructions Electriques de Charleroi, Brussels, Belgium. Electrode mounting for electrical discharge lamps, and particularly for discharge lamps with fluorescent screens. 2,668,928, Feb. 9.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Abramson, Bertram N.
Shapiro, Gustave.

Nawiasky, Paul, Summit, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Vat dyestuffs of the perylene-tetracarboxylic acid bis-arylimide series. 2,668,815, Feb. 9.

Neher, Herbert J., Decatur, Ala. Apparatus for lifting stacks of bricks and the like. 2,668,731, Feb. 9.

Nekola, William J.: *See*—
Wehmiller, Frederick W., and Nekola.

Nelson, Clifford G., Stoughton, assignor to Ray-O-Vac Company, Madison, Wis. Flat dry cell battery pack. 2,668,868, Feb. 9.

Nelsson, Nels, assignor to United States Gypsum Company, Chicago, Ill. Partition clip. 2,668,342, Feb. 9.

Neuworth, Martin B., Brentwood, Pa., assignor to Socony-Vacuum Oil Company, Incorporated. Ester-type synthetic lubricants. 2,668,848, Feb. 9.

New Castle Products, Inc., assignee: *See*—
Keys, James R., Van Buskirk, and Oberdorfer.

Newfield, Paul C., Sr., New Orleans, La. Interlocking shingle. 2,668,508, Feb. 9.

New Jersey Zinc Company, The, assignee: *See*—
Miller, Neville F.

New Products Corporation, assignee: *See*—
Banker, Oscar H.

Newton, Lawrence W., South Charleston, W. Va., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Thioesters and process. 2,668,847, Feb. 9.

New Wrinkle, Inc., assignee: *See*—
Waldie, William A.

Nichols, Harry J., Point Pleasant, N. J. Marine propeller steering system. 2,668,514, Feb. 9.

Nichols, Ralph M., Greenville, S. C., assignor to Bob Jones University. Splicing device for magnetic tape. 2,668,576, Feb. 9.

Nielsen, Chester L., assignor to Wesbar Stamping Corporation, West Bend, Wis. Car top carrier with side loading device. 2,668,646, Feb. 9.

Nierman, Leonard G., Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission. Relay system. 2,668,934, Feb. 9.

Niles-Bement-Pond Company, assignee: *See*—
Lee, Leighton H.
Sager, Leonard E.

Noren, Tore H.: *See*—
Federighi, George J., and Noren.

Norris, William R., Clark Township, Union County, N. J., assignor to Standard Oil Development Company. Purification of alcohols. 2,668,863, Feb. 9.

North American Rayon Corporation, assignee: *See*—
Little, Lonnie A., and Williams.

North Shore Cutting Die Company, assignee: *See*—
Leskiewicz, Stanley, and Hartung.

Nylen, Roy F., Chicago, Ill. Merchandise display container. 2,668,616, Feb. 9.

Oberdorfer, Henry D.: *See*—
Keys, James R., Van Buskirk, and Oberdorfer.

Ocker, Charles, New Smyrna Beach, Fla. Blowoff valve for locomotive boilers. 2,668,685, Feb. 9.

Oehler, William P., and A. J. Immesoete, assignors to Deere & Company, Moline, Ill. Flexible tread press wheel. 2,668,490, Feb. 9.

Oestrich, Hermann, S. Decher, and W. Stein, Decize, France, Decher and Stein assignors to Oestrich. Fuel feed control for gas turbine engines. 2,668,585, Feb. 9.

Olson, Holly M., Muskegon, Mich. Motor-driven reciprocating saw unit. 2,668,567, Feb. 9.

Orwoll, Edward F., Medina, N. Y., assignor to Sharples Chemicals Inc. Production of thiophosgene. 2,668,853, Feb. 9.

Osbourne, Alan, Washington, D. C. Apparatus for indicating and regulating viscosity. 2,668,442, Feb. 9.

Osburn, Joe C., and J. E. Brown, Chattanooga, Tenn. Motor vehicle garment hanger rack. 2,668,647, Feb. 9.

Otis Pressure Control, Inc., assignee: *See*—
Hoffer, Temple P.

Overbey, Ernest E.: *See*—
Holzrichter, Robert F., and Overbey.

PM Industries, Incorporated, assignee: *See*—
Barradas, George, and Motten.

Packaging Materials Corp., assignee: *See*—
Perry, Eugene L.

Paine, Harry C., California, Pa. Lathe tool jack. 2,668,467, Feb. 9.

Palid, Joseph J.: *See*—
Darin, William, and Palid.

Palmatier, Francois N., Arlington Heights, assignor to The Goss Printing Press Company, Chicago, Ill. Web supply reel for printing presses. 2,668,677, Feb. 9.

Palombo, Louis J., Providence, R. I. Center brace. 2,668,563, Feb. 9.

Panik, Irene M., Elizabeth, N. J., and W. F. Sullivan, Oak Ridge, Tenn., assignors to National Lead Company, New York, N. Y. Rendering cellulosic materials fire resistant. 2,668,780, Feb. 9.

Paper Novelty Manufacturing Company, assignee: *See*—
Pettorossi, Joseph.

Parry, William A., Manchester, assignor to The Fuller Brush Company, Hartford, Conn. Brush element with fibers held in channel member and making same. 2,668,311, Feb. 9.

Patch, Clara L., assignee: *See*—
Patch, Orin G.

Patch, Orin G., Wenatchee, Wash., assignor, by decree of distribution, to C. L. Patch. Apparatus for metering entrained air or gas by pressure observations. 2,668,437, Feb. 9.

Paules, Lemon B., assignor to Aircraft-Marine Products Inc., Harrisburg, Pa. Wire cutting and stripping tool. 2,668,464, Feb. 9.

Paxton, Hugh C.: *See*—
Booth, Eugene T., Jr., and Paxton.

Peach, Francis G.: *See*—
Bate, Stanley C., Peach, and Rogerson.

Pearman, Charles E., Littleton, Colo. Folding structure for conversion from a chair to a cot and vice versa. 2,668,578, Feb. 9.

Pearson Ben, Incorporated, assignee: *See*—
Bramblett, John J.

Pease, Paul M., Pasadena, Calif., assignor of two-thirds to A. Smith, Shelton, Wash., and one-third to F. M. Pitt, San Gabriel, Calif. Locking gun holder. 2,668,645, Feb. 9.

Peltzer, Albert, Sr., assignor to Merco Centrifugal Co., San Francisco, Calif. Centrifuge machine. 2,668,658, Feb. 9.

Pencil Crafts, Inc., assignee: *See*—
Wright, Gregory G.

People in the territory of the United States dedicated to the free use of the, assignee: *See*—
Carlsen, Earl W.

Permark Company, Inc., assignee: *See*—
Irving, Albert J.

Perry, Eugene L., deceased, Bloomfield, N. J.; H. M. Swope, and G. Gubernator, executrices, assignors, by mesne assignments, to Packaging Materials Corp., Providence, R. I. Corrugated packing sheet. 2,668,786, Feb. 9.

Peters & Russell, Inc., assignee: *See*—
Russell, Linus E.

Petersen, Siegfried: *See*—
Gold, Heinrich, and Petersen.

Peterson, Wesley M., Davenport, Iowa. Viscosimeter. 2,668,441, Feb. 9.

Petkwitz, Carl F., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Refrigerator utility drawer mounting. 2,668,423, Feb. 9.

Pettorossi, Joseph, assignor to Paper Novelty Manufacturing Company, Brooklyn, N. Y. Decorative article. 2,668,385, Feb. 9.

Pfeffer, William E., assignor to P. Mood, L. Void, and W. E. Pfeffer, trading under the name of The Electro-Mechanical Instrument Company, Perkasie, Pa. Electrical measuring instrument with permanent magnet restoring means. 2,668,945, Feb. 9.

Pfeifer, Carl A., Milwaukee, Wis. Tire rivet. 2,668,570, Feb. 9.

Phillips Petroleum Company, assignee: *See*—
Asbury, Howard C.
Carney, Samuel C.

Phreaner, Ellis H., Los Angeles, assignor of one-third to H. C. White, Pasadena, Calif. Composite rubber and resinous plastic materials and making same. 2,668,789, Feb. 9.

Picker X-Ray Corporation, Waite Manufacturing Division, Inc., assignee: *See*—
Goldfield, Edwin R., and Stava.
Goldfield, Edwin R., Stava, and Bastin.

Pierce, Clayton B., Port Chester, assignor to Emerol Manufacturing Co., Inc., New York, N. Y. Lubricating device for internal-combustion engines. 2,668,525, Feb. 9.

Pilling, George P., & Son Company, assignee: *See*—
Baker, Elvin E.

Piros, John J., Homewood, Ill., and O. F. Campbell, Whiting, Ind., assignors, by mesne assignments, to Sinclair Oil and Gas Company, Tulsa, Okla. Gas burner and burning gas in oil and gas wells. 2,668,592, Feb. 9.

Pitt, F. Morton, assignee: *See*—
Pease, Paul M.

Plank, Charles J., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Cracking catalyst reactivation. 2,668,798, Feb. 9.

Poche, John M., Mississippi City, Miss. Vehicle wheel. 2,668,736, Feb. 9.

Porter, Frank E., Denville, assignor to U. S. Chemical Corporation, Metuchen, N. J. Casting patterned plastic sheets. 2,668,328, Feb. 9.

Porter, John L., Baton Rouge, La., assignor to Kaiser Aluminum & Chemical Corporation, Oakland, Calif. Production of alumina. 2,668,751, Feb. 9.

Power Jets (Research and Development) Limited, assignee: *See*—
Whittet, Derek R.

Preen, Sidney D., Long Beach, Calif. Sewer cleaning ball. 2,668,307, Feb. 9.

Price, Walter E., Jr., Baton Rouge, La., assignor to Standard Oil Development Company. Acetal preparation. 2,668,862, Feb. 9.

Products & Licensing Corporation, assignee: *See*—
Toulon, Pierre M. G.

Protectoseal Company, The, assignee: *See*—
Lebus, William A.

Przybylski, Daniel F., Winona, Minn. Interchangeable ground traction for self-propelled vehicles. 2,668,938, Feb. 9.

Puchy, Clarence G., Lyndhurst, assignor to Jack & Heintz, Inc., Cleveland, Ohio. Electrical system for operating inverters in parallel. 2,668,919, Feb. 9.

Quellman, Irving, New York, N. Y. Dental bridge. 2,668,353, Feb. 9.

R. I. K., Incorporated, assignee: *See*—
Kaufman, Roy I.

Rachlin, Albert I.: *See*—
Goldberg, Moses W., and Rachlin.

Radio Corporation of America, assignee: *See*—
Iams, Harley A.
Isom, Warren R.

Radomski, Hans, Richmond Hill, assignor of one-half to H. Andreas, Ridgewood, N. Y. Auxiliary window sash. 2,668,334, Feb. 9.

Randol, Glenn T., Mountain Lake Park, Md. Hydraulic valve lifter. 2,668,524, Feb. 9.

Ray-O-Vac Company, assignee: *See*—
Nelson, Clifford G.

Redmond Company, Inc., assignee: *See*—
Merriam, Frank R., Jr.
Seelhoff, Manley R.

Reed, Frank S., Florence, Ky. Flush tank valve. 2,668,297, Feb. 9.

Reese Engineering Company, assignee: *See*—
Reese, Harley R.

Reese, Harley R., Huntington Park, assignor to Reese Engineering Company, Los Angeles, Calif. Hydraulic loader. 2,668,631, Feb. 9.

Reichert, Theophil, Brilon-Wald, Germany. Process and means for determining the true specific gravity of wood. 2,668,439, Feb. 9.

Reid, Thomas S.: *See*—
Hals, Lyle J., Reid, and Smith.

Reimschissel, Charles A., assignor to Landis Machine Company, Waynesboro, Pa. Thread grinding mechanism and method. 2,668,401, Feb. 9.

Rekettye, Paul, Akron, assignor to The Sun Rubber Company, Barberton, Ohio. Doll construction with noise effects. 2,668,393, Feb. 9.

Relaxacizor, Inc., assignee: *See*—
Browner, William J.

Remington Arms Company, Inc., assignee: *See*—
Eckstein, George R.

Remington Rand Inc., assignee: *See*—
Crosman, Loring P., and Chall.

Republic Steel Corporation, assignee: *See*—
Jones, Joseph H.

Research Corporation, assignee: *See*—
Wintermute, Harry A.

Reynolds, Walter, Conway, Ark. Foot actuating trolling impeller. 2,668,513, Feb. 9.

Ricalo, Acacio, Baltimore, Md. Self-spacing reinforcing lingual bar. 2,668,354, Feb. 9.

Ricards, Charles L.: *See*—
Tollison, Paul L., and Ricards.

Richmond Manufacturing Company, assignee: *See*—
Thompson, Peyton M.

Ridler, Desmond S., Aldwych, London, England, assignor to International Standard Electric Corporation, New York, N. Y. Printing telegraph receiver. 2,668,870, Feb. 9.

Riegel Paper Corporation, assignee: *See*—
Schlienz, Ralph W.

Rieth, Kurt A., Cranston, assignor to Speidel Corporation, Providence, R. I. Connector for wrist watches or ornamentation. 2,668,343, Feb. 9.

Robbins & Myers, Inc., assignee: *See*—
Gerlitz, Reuben A.

Roberts, Bruce, assignor to The International Electronics Company, Philadelphia, Pa. Drive mechanism for magnetic tape record machine. 2,668,674, Feb. 9.

Roberts, Bruce, assignor to The International Electronics Company, Philadelphia, Pa. Magnetic letterhead. 2,668,718, Feb. 9.

Robertson, H. H., Company, assignee: *See*—
Hubbell, Dean S.
Jenkins, Paul W.

Robinson, Charles A., assignor to Arnold, Hoffman & Co., Inc., Providence, R. I. Preparing guanidine-formaldehyde condensation products. 2,668,808, Feb. 9.

Robinson, Paul C., assignor to Arkell and Smiths, Canajoharie, N. Y. Machine for manufacturing valve bags. 2,668,481, Feb. 9.

Robinson, Preston, Williamstown, assignor to Sprague Electric Company, North Adams, Mass. Electrical condenser. 2,668,936, Feb. 9.

Rock Island Millwork Company, assignee: *See*—
Weyerhaeuser, Frederick.

Rockwell, Harley T., Yonkers, N. Y. Journal lubricator. 2,668,741, Feb. 9.

Rockwell Spring and Axle Company, assignee: *See*—
Keese, Beverly W.

Roddis Plywood Corporation, assignee: *See*—
Waldherr, Joseph J.

Roger, Raymond J. E.: *See*—
Huard, Georges G., and Roger.

Rogers, Elwood C., Jr., Indianapolis, Ind. Photographic printing apparatus. 2,668,474, Feb. 9.

Rogerson, Walter A.: *See*—
Bate, Stanley C., Peach, and Rogerson.

Rohr Aircraft Corporation, assignee: *See*—
Gross, Bernard.

Rollins, Eugene C., Ogden, Utah. Carburetor. 2,668,698, Feb. 9.

Roos, Elizabeth S., Belleville, Ill., and P. C. Hamm, Webster Groves, assignors to Monsanto Chemical Company, St. Louis, Mo. Defoliant compositions. 2,668,758, Feb. 9.

Rosenthal, Harry, Chicago, Ill. Push button controlled sheet material feeding apparatus. 2,668,705, Feb. 9.

Ross, Hugh L., Shorewood, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Double casing pump. 2,668,503, Feb. 9.

Roth, John D., North Wildwood, N. J. Shingle corner construction. 2,668,332, Feb. 9.

Roth, Wilfred, Cambridge, Mass. Integrator circuit. 2,668,662, Feb. 9.

Rotol Limited, assignee: *See*—
Elliott, Albert G.

Rubinstein, Leon, New York, N. Y. Producing screens. 2,668,762, Feb. 9.

Rubinstein, Leon, New York, N. Y. Nonacid photographic oxidizers. 2,668,763, Feb. 9.

Ruegg, Rudolf: *See*—
Zollinger, Heinrich, and Ruegg.

Rumsey, Herbert, Jr., Rochester, N. Y. Making heat-sealed and heat-shrunk package. 2,668,403, Feb. 9.

Russell, Henry R., St. Paul, Minn., assignor, by mesne assignments, to General Package Corporation, Chicago, Ill. Egg carton. 2,668,652, Feb. 9.

Russell, Linus E., assignor to Peters & Russell, Inc., Springfield, Ohio. Pedal extension. 2,668,458, Feb. 9.

Russo, Leo V., Chicago, Ill. Antislipping device for shoes. 2,668,373, Feb. 9.

Rutenber, Edwin A., Baldwin Lake, assignor to Gibson Refrigerator Company, Greenville, Mich. Range top burner pan and electric resistance support. 2,668,899, Feb. 9.

Ryan, John A.: *See*—
Hickok, John E., and Ryan.

S & C Electric Company, assignee: *See*—
Dunshee, William E.

S & W Fine Foods, Inc., assignee: *See*—
Wormser, Paul, and Madrid.

Sager, Leonard E., Dayton, Ohio, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Density responsive valve for carburetors. 2,668,697, Feb. 9.

Sampatacos, Peter M., assignor to The Torrington Manufacturing Company, Torrington, Conn. Means for simultaneously feeding two wires. 2,668,615, Feb. 9.

Sax, Leonard B., assignee: *See*—
Kingsbury, Thomas.

Scalf, William D., Barbourville, Ky. Salt and pepper shaker. 2,668,639, Feb. 9.

Schadt, Owen P., Allentown, assignor to H. J. Lichty, Easton, Pa. Incubator. 2,668,665, Feb. 9.

Schaeffer, Jacob H. Brooklyn, N. Y. Combination wedding and engagement ring and unit therefor. 2,668,605, Feb. 9.

Schauweker, George H., assignor to American Optical Company, Southbridge, Mass. Eye protective device. 2,668,291, Feb. 9.

Schlaudecker, George F., assignor, by mesne assignments, to Maumee Development Company, Toledo, Ohio. Preparation of phthalimide. 2,668,326, Feb. 9.

Schlesinger, Kurt, Maywood, assignor to Motorola, Inc., Chicago, Ill. High voltage generator. 2,668,911, Feb. 9.

Schlienz, Ralph W., Harrington Park, N. J., assignor to Riegel Paper Corporation, New York, N. Y. Paper package and manufacture. 2,668,769, Feb. 9.

Schmid, Howard C., Missoula, Mont. Boot grease and leather preservative and producing it. 2,668,773, Feb. 9.

Schmidlin, Julius, assignee: *See*—
Miescher, Karl, and Schmidlin.

Schmidt, Carl O., Jr., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Safety device for stuffing apparatus. 2,668,321, Feb. 9.

Schmidt, Robert J., Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Distillation system for recovering spent pumping oils. 2,668,794, Feb. 9.

Schnegg, Auguste, Pieterlen, by Bienne, Switzerland. Combination lock. 2,668,433, Feb. 9.

Schneider, Abraham, assignor to Sun Oil Company, Philadelphia, Pa. Alkylation of isoparaffins with naphthenes. 2,668,865, Feb. 9.

Schofield, Arthur: *See*—
Lantz, Louis A., and Schofield.

Schofield, Arthur: *See*—
Lantz, Louis A., Schofield, and Spinner.

Schofield, Frank E., Portland, Oreg. Sink strainer wrench with work engaging nut. 2,668,466, Feb. 9.

Schonitzer, Rudolph I., assignee: *See*—
de Vito, Angelo R.

Schramm, August F., Jr., White Plains, N. Y. Making a bonded permeable article. 2,668,787, Feb. 9.

Schröder, Hubert, Munich, Germany, assignor to Fish-Schurman Corporation, New York, N. Y. Heat protection filter. 2,668,478, Feb. 9.

Schultz, Arthur C., Ross Township, Allegheny County, assignor to Stoner-Mudge, Inc., Pittsburgh, Pa. Coating composition comprising a vinyl chloride polymer dispersed in a mixture of plasticizer and an alkyl ether of a mono- or diethylene glycol. 2,668,801, Feb. 9.

Schumb, Martin T., Milton, assignor to Boston Gear Works-Division The Murray Company of Texas, Inc., North Quincy, Mass. Mounting for sprockets, pinions or the like. 2,668,454, Feb. 9.

Schwyn, Raymond E., and R. H. Mitchel, Flint, assignors to General Motors Corporation, Detroit, Mich. Temperature compensator alloy. 2,668,944, Feb. 9.

Scovill Manufacturing Company, assignee: *See*—
Treciokas, Jacob P.

Scriabine, Igor, Lyon, assignor to Societe des Usines Chimiques Rhone Poulenc, Paris, France. Production of phenol and acetone. 2,668,859, Feb. 9.

Sears, Raymond W.: *See*—
Jonas, Herbert C., and Sears.

Seed, John B., West Kilbridge, Scotland, assignor to Imperial Chemical Industries Limited. Apparatus for removing gases from a liquid. 2,668,598, Feb. 9.

Seeley, Kermit L., Los Angeles, Calif. Coffee measure and dispenser having an integral handle and closure operating member. 2,668,427, Feb. 9.

Seelhoff, Manley R., assignor to Redmond Company, Inc., Owosso, Mich. Commutator testing apparatus. 2,668,618, Feb. 9.

Segesman, Louis E., Canton, assignor to The Hoover Company, North Canton, Ohio. Conversion arrangement for suction cleaners. 2,668,314, Feb. 9.

Segre, James, New York, N. Y. Apparatus for molding corrugated asbestos-cement sheets. 2,668,574, Feb. 9.

Seigle, William, Dallas, Tex. Spring cushioning insole. 2,668,374, Feb. 9.

Selas Corporation of America, assignee: *See*—
Dietrich, Karl L.

Seljos, Arthur L.: *See*—
Crookston, Robert R., and Seljos.

Seyffert, Walter H., Jr., Houston, Tex., assignor to Camco, Incorporated. Differential flow valve for wells. 2,668,554, Feb. 9.

Shaikun, Cleo, Louisville, Ky. Main and auxiliary mirror assembly. 2,668,477, Feb. 9.

Shapiro, Gustave, Washington, D. C., assignor to the United States of America as represented by the Secretary of the Navy. Miniature electron tube stage assembly. 2,668,933, Feb. 9.

Sharples Chemicals Inc., assignee: *See*—
Orwoll, Edward F.

Shell Development Company, assignee: *See*—
Good, George M., Gibson, and Greensfelder.

Shepherd, Judson O., Atlanta, Ga. Data recording system. 2,668,875, Feb. 9.

Sherman, Delmar F., New Plymouth, Idaho. Rotary beet topper. 2,668,407, Feb. 9.

Shimmon, William L., Modesto, Calif. Vineyard plow. 2,668,488, Feb. 9.

Silver, Walter H., Moline, Ill., and W. V. Lohrman, Davenport, Iowa, assignors to Deere & Company, Moline, Ill. Tractor-mounted lister. 2,668,489, Feb. 9.

Sinclair Oil and Gas Company, assignee: *See*—
Piros, John J., and Campbell.

Singer, Albert, Berkeley, Calif. Automobile seat safety guard. 2,668,583, Feb. 9.

Singmaster & Breyer, assignee: *See*—
Breyer, Frank G., and Delruelle.

Skaperdas, George T., Flushing, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Removing impurities from a gas liquefaction system with aid of extraneous gas stream. 2,668,425, Feb. 9.

Skelly, Joseph F., New York, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Apparatus for the explosive pulverization of coal. 2,668,669, Feb. 9.

Smith, Arvid, assignee: *See*—
Pease, Paul M.

Smith, George H.: *See*—
Hals, Lyle J., Reid, and Smith.

Smith, Gus T., assignor to Marvel Specialty Company, Paducah, Ky. Device for restoring defective knitted fabrics. 2,668,428, Feb. 9.

Societe Anonyme dite: Ateliers de Constructions Electriques de Charleroi, assignee: *See*—
Navarre, Roger F. D.

Societe des Usines Chimiques Rhone Poulenc, assignee: *See*—
Scriabine, Igor.

Societe Nouvelle des Etablissements Brandt, assignee: *See*—
Mouriaque, Gaston A.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Neuworth, Martin B.
Plank, Charles J.

Solomon, Morris, Los Angeles, Calif. Mop and attachment therefor. 2,668,312, Feb. 9.

Sorensen & Company, Inc., assignee: *See*—
Bunblasky, Adolph, and Henrich.
Henrich, William H.

South Chester Corporation, assignee: *See*—
Flogaus, Howard A.

Sparklin, Charles H., Chicago, Ill., assignor to Birtman Electric Company. Centrifugally released clutch. 2,668,611, Feb. 9.

Specialties Development Corporation, assignee: *See*—
Mapes, Daniel.

Speidel Corporation, assignee: *See*—
Rieth, Kurt A.

Spencer, Clarence S., Virginiatown, Ontario, Canada. Perpetual calendar. 2,668,382, Feb. 9.

Spencer, Harold S., Homer, N. Y. Knockdown sampling dipper for ladling dairy products. 2,668,448, Feb. 9.

Spiess, Georg, Leipzig, Germany. Pneumatic sheet feeding mechanism. 2,668,707, Feb. 9.

Spinner, Ernst: *See*—
Lantz, Louis A., Schofield, and Spinner.

Sprague Electric Company, assignee: *See*—
Robinson, Preston.

Sprauer, Jerome W.: *See*—
Harris, Charles R., and Sprauer.

Spraying Systems Co.: *See*—
Wahlin, Fred W.

Stålhandske, David G., and E. A. Johnson, Bofors, Sweden. Gauge for measuring external dimensions. 2,668,361, Feb. 9.

Stamicarbon N. V., assignee: *See*—
Fontein, Freerk J.

Standard Oil Development Company, assignee: *See*—
Crookston, Robert R., and Seljos.
Hickok, John E., and Ryan.
Hogin, David R.
Norris, William R.
Price, Walter E., Jr.

Standfast Dyers & Printing Limited, assignee: *See*—
Hannay, Robert S. E., and Kilby.

Stanford, Leland H., Arlington, Va. Cable lashing machine. 2,668,688, Feb. 9.

Starline Inc., assignee: *See*—
Ferris, Robert G.

Starr, Edwin, assignee: *See*—
Fat, Joseph K. C.

Starr, Merle A., Belmont, Mass. Cosine sweep circuit. 2,668,910, Feb. 9.

Staub, Guy A., New Oxford, Pa. Lotting machine. 2,668,717, Feb. 9.

Stava, Robert J.: *See*—
Goldfield, Edwin R., and Stava.
Goldfield, Edwin R., Stava, and Bastin.

Steele, Roger C., Albany, assignor to California Reinforced Plastics Company, Oakland, Calif. Making a curved honeycomb product. 2,668,327, Feb. 9.

Stein, Wolfgang: *See*—
Oestrich, Hermann, Decher, and Stein.

Steinberg, Leon J., Baltimore, Md. Hydro pneumatic massager. 2,668,299, Feb. 9.

Sterilon Corporation, assignee: *See*—
Evans, Robert P.

Stewart, Charles L., and E. F. Aldrich, Chicago, Ill. Windshield wiper. 2,668,726, Feb. 9.

Stewart, Henry R., Thornhill, Ontario, assignor to Allanson Armature Manufacturing Company, Limited, Toronto, Ontario, Canada. Convertible transformer. 2,668,947, Feb. 9.

Stibitz, George R., Boonton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Complex computer. 2,668,661, Feb. 9.

Stiles, Lloyd C., and R. A. Davis, Birmingham, Ala., assignors to Chicago Bridge and Iron Company. Supporting column. 2,668,607, Feb. 9.

Stimpson, Edwin G., Sayville, assignor to National Dairy Research Laboratories, Inc., Oakdale, N. Y. Frozen concentrated milk products. 2,668,765, Feb. 9.

Stoddard, Glen W., Grant Township, Tama County, Iowa. Corn husking machine having combination picking and husking rolls. 2,668,543, Feb. 9.

Stoner-Mudge, Inc., assignee: *See*—
Schultz, Arthur C.

Stringer, James E., Central City, Nebr. Round corner case making machine. 2,668,575, Feb. 9.

Stuivenberg, Cornelis H., Haarlem, Netherlands. Card handling machine. 2,668,626, Feb. 9.

Sturtevant, Mark J., St. Clair Shores, W. L. Weertman, Bloomfield Hills, and W. D. Brown, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Bushing. 2,668,316, Feb. 9.

Styrene Products Limited, assignee: *See*—
Haward, Robert N., and Elly.

Suits, Chauncey G., Schenectady, N. Y., assignor to General Electric Company. Protective system. 2,668,930, Feb. 9.

Sullivan, William F.: *See*—
Panik, Irene M., and Sullivan.

Sun Oil Company, assignee: *See*—
Hay, Lehman E.
Schneider, Abraham.

Sun Rubber Company, The, assignee: *See*—
Rekettye, Paul.

Svatý, Vladimír, Roztoky, near Jilemnice, assignor of seventy-five per cent to Ceskoslovenske Textilni Zavody, narodni podnik, Prague, Czechoslovakia. Device for weaving of fabrics. 2,668,560, Feb. 9.

Swanson, Oscar W., West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Total printing control mechanism for typewriter-computers. 2,668,659, Feb. 9.

Sweet, Floyd H., Euclid, assignor to The Marquette Metal Products Company, Cleveland, Ohio. Load limiter for speed governors. 2,668,519, Feb. 9.

Swengel, Robert C., York, Pa. Oscillating seat. 2,668,579, Feb. 9.

Swope, Helen M., executrix: *See*—
Perry, Eugene L.

Sykes, Thomas R., assignor to The Toronto Star Limited, Toronto, Ontario, Canada. Stacking device. 2,668,483, Feb. 9.

Szekely, George, Tel-Aviv, Israel. Means for aerating liquids. 2,668,699, Feb. 9.

Tackaberry, John A., Miami, Fla. Vibration bed. 2,668,530, Feb. 9.

Taft, Ernest A., Schenectady, N. Y., assignor to General Electric Company. Forming a photo emitter. 2,668,778, Feb. 9.

Tarika, Elio E.: *See*—
Kline, William A., Monick, and Tarika.

Technicon International, Ltd., assignee: *See*—
Weiskopf, Edwin C.

Tenenbaum, Michael, Flossmoor, assignor to Inland Steel Company, Chicago, Ill. Steelmaking process. 2,668,759, Feb. 9.

Teopilian, Aram, Brooklyn, N. Y. Hair curler. 2,668,546, Feb. 9.

Thibault, Arthur L., Fall River, Mass. Doff safety bracket for looms. 2,668,561, Feb. 9.

Thomas, Percy H., Washington, D. C. Polygon cone draft tube. 2,668,686, Feb. 9.

Thomco Mfg. Co., Inc., assignee: *See*—
Thompson, Gaylord G.

Thompson, Alonzo Z., Selma, N. C. Apparatus for discharging finely divided materials under pressure. 2,668,388, Feb. 9.

Thompson, Gaylord G., assignor to Thomco Mfg. Co., Inc., Redwood City, Calif. Cylinder support means for rotary tape printing presses. 2,668,496, Feb. 9.

Thompson, Peyton M., assignor to Richmond Manufacturing Company, Lockport, N. Y. Clamp for screen frames. 2,668,621, Feb. 9.

Tillis, Earl W., Elkhart, Ind. Piston reconditioning device. 2,668,462, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. S-(ethylxanthoyl) methanethiolphosphonic chloride. 2,668,818, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. S-(ethylxanthoyl) O-(4-nitrophenyl) methanethiolphosphonate. 2,668,819, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Bis(ethylxanthoylthioxy)-methyl-phosphine oxide. 2,668,820, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. S-(ethylxanthoyl) O-ethyl methanethiolphosphonate. 2,668,821, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Ethylxanthoylthioxy-N,N-diethylaminomethyl-phosphine oxide. 2,668,822, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Ethylxanthoylthioxy-cyano-methyl-phosphine oxide. 2,668,823, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. O-(4-nitrophenyl) S-(ethylxanthoyl) dithiophosphoric chloride. 2,668,824, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. S-(ethylxanthoyl) N,N-diethylamidothiophosphoric chloride. 2,668,825, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. S-(ethylxanthoyl) O,O-di (2,4,5-trichlorophenyl) dithiophosphate. 2,668,826, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. S-(ethylxanthoyl) O,O-di (4-nitrophenyl) dithiophosphate. 2,668,827, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. S,S-bis(ethylxanthoyl) O-ethyl trithiophosphate. 2,668,828, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. S-(ethylxanthoyl) O-(4-nitrophenyl) O-ethyl dithiophosphate. 2,668,829, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. S,S-bis(ethylxanthoyl) O-(4-nitrophenyl) trithiophosphate. 2,668,830, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. O-ethyl S-(ethylxanthoyl) N,N-diethylamidothiophosphate. 2,668,831, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Ethylxanthoylthioxy-N,N,N',N'-tetraethyldiaminophosphine sulfide. 2,668,832, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Ethylxanthoylthioxy-N,N-diethylamino-cyanophosphine oxide. 2,668,833, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. O-(2,4,5-trichlorophenyl) S-(ethylxanthoyl) dithiophosphoric chloride. 2,668,834, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Tris(O-ethyl dimethylamidophosphoryl) phosphate. 2,668,835, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Bis(O,O-diethylphosphoric) dimethylamidophosphoric dianhydride. 2,668,836, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Bis(O-ethyl dimethylamidophosphoric) dimethylamidophosphoric dianhydride. 2,668,837, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. O(β,β,β-trichlorotertiarybutyl) N,N-diethylamidoalkanephosphonates. 2,668,838, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. O-(2,4,5-trichlorophenyl) N,N-diethylamidoalkanephosphonates. 2,668,839, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. O-(4-nitrophenyl) N,N-diethylamidoalkanephonphonates. 2,668,840, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. O-ethyl O-(2,4,5-trichlorophenyl) methanephosphonate. 2,668,841, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. O,O-bis (β,β,β-trichlorotertiarybutyl) methanephosphonate. 2,668,842, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. O-(β,β,β-trichlorotertiarybutyl) O-(2,4,5-trichlorophenyl methanephosphonate. 2,668,843, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. O-(β,β,β-trichlorotertiarybutyl) O-(4-nitrophenyl) alkanephosphonates. 2,668,844, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. O,O-bis(4-nitrophenyl) alkanephosphonates. 2,668,845, Feb. 9.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. O-(4-nitrophenyl) alkanephosphonic chlorides. 2,668,846, Feb. 9.

Toll, Joseph, assignee: *See*—
Leskiewicz, Stanley, and Hartung.

Tollison, Paul L., North Plainfield, and C. L. Ricrads, South Plainfield, assignors to Wood Newspaper Machinery Corporation, Plainfield, N. J. Preregistering of plates by projection of register marks. 2,668,346, Feb. 9.

Tolson, William A., Hightstown, N. J. Phasing of engines, motors, and the like. 2,668,418, Feb. 9.

Toronto Star Limited, The, assignee: *See*—
Sykes, Thomas R.

Torrington Manufacturing Company, The, assignee: *See*—
Sampatacos, Peter M.

Toulon, Pierre M. G., Neuilly-sur-Seine, France, assignor of seventy-five per cent to Products & Licensing Corporation, New York, N. Y., and twenty-five per cent to N. Moore and W. D. Hall, as joint tenants. Commutation of discharge tubes and particularly of rectifiers and inverters. 2,668,939, Feb. 9.

Trankla, Grace M., assignee: *See*—
Kwartz, Michael J.

Transportation Specialties Co., assignee: *See*—
Johnston, Charles S.

Treasury, United States of America as represented by the Secretary of the, assignee: *See*—
Forbes, Richard H.

Treciokas, Jacob P., Oakville, assignor to Scovill Manufacturing Company, Waterbury, Conn. Kickout and hold-down device for fastener attaching machines. 2,668,633, Feb. 9

Trico Products Corporation, assignee: *See*—
Deibel, Raymond.

Trimble, Howard B., Nashville, Tenn. Means for demonstrating and recording relative motion between objects. 2,668,370, Feb. 9.

Troendle, Emil, Apopka, Fla. Comb cleaner. 2,668,305, Feb. 9.

Tropic-Aire, Inc., assignee: *See*—
Von Behren, William P.

Turner, Richard J.: *See*—
Bentz, Alan P., West, and Turner.

Uher, Edmond, Munich, Germany, assignor to Uher Engineering Company, Panama, Republic of Panama. Power unit. 2,668,914, Feb. 9.

Uher, Edmond, Munich, Germany, assignor to Uher Engineering Company, Panama, Republic of Panama. Electrically driven fly-wheel starter. 2,668,917, Feb. 9.

Uher Engineering Company, assignee: *See*—
Uher, Edmond.

Underwood Corporation, assignee: *See*—
Swanson, Oscar W.
Yaeger, Harry C.

Union Asbestos & Rubber Company, assignee: *See*—
Elfving, Thore M.

Union Carbide and Carbon Corporation, assignee: *See*—
Johnston, Franklin.
Newton, Lawrence W.

Union Chimique Belge, S. A., assignee: *See*—
Morren, Henri.

Union Oil Company of California, assignee: *See*—
Ertl, Tell.

United-Carr Fastener Corporation, assignee: *See*—
Jones, Walter I.

United Shoe Machinery Corporation, assignee: *See*—
Barker, William A.
Germany, Norman V.
United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Booth, Eugene T., Jr., and Paxton.
Brixner, Berlyn.
Nierman, Leonard G.
Schmidt, Robert J.
U. S. Chemical Corporation, assignee: *See*—
Porter, Frank E.
United States Gypsum Company, assignee: *See*—
Nelsson, Nels.
Universal Oil Products Company, assignee: *See*—
Chenicek, Joseph A.
Upjohn Company, The, assignee: *See*—
Magerlein, Barney J.
Van Alen, De Witt T., assignor to The George W. Borg Corporation, Delavan, Wis. Coil winding machine. 2,668,670, Feb. 9.
Van Buskirk, Carroll F.: *See*—
Keys, James R., Van Buskirk, and Oberdorfer.
Vance, John E.: *See*—
Beach, Justice H., and Vance.
Vance, John E., Canton, assignor to The Hoover Company, North Canton, Ohio. Electric iron. 2,668,378, Feb. 9.
Vanderschei, Norman, Lubbock, Tex. Safeway baby poser. 2,668,577, Feb. 9.
Varela, Arthur A., and R. A. Herring, Jr., Washington, D. C. Power supply voltage regulator. 2,668,942, Feb. 9.
Vaughan, G. E., & Company Pty. Limited, assignee: *See*—
Vaughan, George E.
Vaughan, George E., assignor to G. E. Vaughan & Company Pty. Limited, Granville, New South Wales, Australia. Electrical switchgear. 2,668,893, Feb. 9.
Veldstra, Haaye, and A. M. Akkerman, assignors to N. V. Amsterdamsche Chininefabriek, Amsterdam, Netherlands. Preparation of β-dimethylaminoethyl-benzhydryl ether. 2,668,857 Feb. 9.
Victor Products (Wallsend) Limited, assignee: *See*—
Cameron, Alexander.
Vincent, Carl, Chicago, Ill. Journal box lubricator. 2,668,742, Feb. 9.
Violet, André, and M. Cornilleau, Boulogne-Billancourt, France, assignors to International Standard Electric Corporation, New York, N. Y. Device for automatic frequency control, more particularly for the reception of carrier shift signals. 2,668,871, Feb. 9.
Vitro Corporation of America, assignee: *See*—
Ekstein, Charles.
Void, Lester, assignee: *See*—
Pfeffer, William E.
Von Behren, William P., Toledo, Ohio, assignor, by mesne assignments, to Tropic-Aire, Inc., Chicago, Ill. Electric food broiler. 2,668,898, Feb. 9.
Wacker-Chemie G. m b. H., assignee: *See*—
Bergmeister, Eduard, Gruber, and Heckmaier.
Wahlin, Fred W., Oak Park, assignor to Spraying Systems Co., Bellwood, Ill. Strainer attachment. 2,668,624, Feb. 9.
Waldherr, Joseph J., assignor to Roddis Plywood Corporation, Marshfield, Wis. Forming a hollow core plywood door. 2,668,788, Feb. 9.
Waldie, William A., Oakwood, assignor to New Wrinkle, Inc., Dayton, Ohio. Production of a fluorescent and iridescent wrinkle-finish coating containing a hydrous iron oxide as pigment. 2,668,799; Feb 9.
Walker, Jack, and P. Leng, assignors to Armstrong Siddeley Motors Limited, Coventry, England. Optical apparatus for inspecting the contour of articles. 2,668,475, Feb. 9.
Ward, Eugene B., West Springfield, Mass. Foot supporting device. 2,668,375, Feb. 9.
Watters, Gilbert S., Davenport, Iowa. Securing device. 2,668,729, Feb. 9.
Wayne Pump Company, The, assignee: *See*—
Moser, Homer D.
Webster Electric Company, assignee: *See*—
Munroe, David J.
Weertman, Willem L.: *See*—
Sturtevant, Mark J., Weertman, and Brown.
Wehmiller, Frederick W., Ladue, and W. J. Nekola, Normandy, assignors to Barry-Wehmiller Machinery Company, St. Louis, Mo. Reclaiming detergent solutions. 2,668,796, Feb. 9.
Weiskopf, Edwin C., assignor to Technicon International, Ltd., New York, N. Y. Filing cabinet and drawer for microscope slides. 2,668,746, Feb. 9.
Weiss, Abraham: *See*—
Weiss, Joseph and A.
Weiss, Joseph and A. Weiss, deceased, New York, N. Y.; said J. Weiss, administrator of said A. Weiss, assignor to J. Weiss, individually. Brake control system for motor vehicles. 2,668,608, Feb. 9.
Welch, Herman P., assignor to Backstay Welt Company, Union City, Ind. Bias woven narrow fabric. 2,668,296, Feb. 9.
Welch, Robert L., Canton, Ohio. Static and dynamic wheel balancing machine. 2,668,443, Feb. 9.
Wernlund, Christian J., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. White brass plating. 2,668,795, Feb. 9.
Wesbar Stamping Corporation, assignee: *See*—
Nielsen, Chester I.
West Bend Aluminum Co., assignee: *See*—
Kraemer, Elmore A.
West, Byron L.: *See*—
Bentz, Alan P., West, and Turner.
West Disinfecting Company, assignee: *See*—
Gilmore, Burdette B.
Western Electric Company, Incorporated, assignee: *See*—
Clotworthy, Charles B., Jr.
Lodge, Joseph E.
Meyer, Frank A.
Wetzler, Justin J., Chicago, Ill., assignor to General Package Corporation. Article separating mechanism. 2,668,627, Feb. 9.
Weyerhaeuser, Frederick, St. Poul, Minn., assignor to Rock Island Millwork Company, Rock Island, Ill. Loading apparatus and method. 2,668,322, Feb. 9.
Whipple, Fred L., Belmont, Mass. Meter device. 2,668,357, Feb. 9.
White, Clifford E., Belton, Tex. Pneumatic impact tool. 2,668,518, Feb. 9.
White, H. Calvin, assignee: *See*—
Phreaner, Ellis H.
Whitney, John E. S.: *See*—
Evans, Edward M., and Whitney.
Whittet, Derek R., Farnborough, assignor to Power Jets (Research and Development) Limited, London, England. Electrostatic precipitator. 2,668,599, Feb. 9.
Whytlaw, Graeme G., Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del. Packaging filamentary material. 2,668,402, Feb. 9.
Wieland, Peter: *See*—
Miescher, Karl, and Wieland.
Wille, Rachel E., Franklin Park, Ill. Hairdo accessory. 2,668,547, Feb. 9.
Williams, John H., San Francisco, Calif. Spring motor operated rocking doll. 2,668,392, Feb. 9.
Williams, Richard R., Chevy Chase, Md. Temperature control for heating systems. 2,668,664, Feb. 9.
Williams, Terry L.: *See*—
Little, Lonnie A., and Williams.
Williams & Williams Limited, assignee: *See*—
Fox-Williams, Jack.
Wilson, Bernard T., Los Angeles, Calif., assignor, by mesne assignments, to Computer Research Corporation of California. Dynamic diode tester. 2,668,943, Feb. 9.
Wilson & Co., Inc., assignee: *See*—
Moss, Walter E., and Garapolo.
Wilson, Frank R., Lexington, Ky. Hydrometer. 2,668,440, Feb. 9.
Wilson, Herbert W., St. Louis, Mo., assignor to The Hoover Company, North Canton, Ohio. Support for electric irons. 2,668,380, Feb. 9.
Wilson, John B., Indianapolis, Ind., assignor, by mesne assignments, to Huyler's, New York, N. Y. Pressure-sustaining sealing head. 2,668,650, Feb. 9.
Winslow, William R., Culver City, Calif. Vibration damping device. 2,668,603, Feb. 9.
Wintermute, Harry A., Plainfield, N. J., assignor to Research Corporation, New York, N. Y. Electrode structure. 2,668,600, Feb. 9.
Winters, William P., Cincinnati, Ohio, assignor to American Can Company, New York, N. Y. Sheet feeding and slitting machine with strip feeding device. 2,668,591, Feb. 9.
Wolfe, Henry J., Akron, assignor to National Gypsum Company, Clarence Center, N. Y. Winding machine. 2,668,675, Feb. 9.
Wollner, Herman, assignee: *See*—
Zeuzem, Friedrich R.
Wood Newspaper Machinery Corporation, assignee: *See*—
Tollison, Paul L., and Ricards.
Woolsey, Clarence L., Randall, Kans. Target trap with automatically varied throwing angle. 2,668,526, Feb. 9.
Wormser, Paul, and D. Madrid, assignors to S & W Fine Foods, Inc., San Francisco, Calif. Device for assorting long stemmed cherries from short stemmed cherries. 2,668,619, Feb. 9.
Wright, Glenn C., Cato, N. Y. Folding golf club and ball carrier. 2,668,721, Feb. 9.
Wright, Gregory G., Cincinnati, Ohio, assignor to Pencil Crafts, Inc., Georgetown, Ky. Pencil marking machine. 2,668,495, Feb. 9.
Wright, Stanworth E., Greenfield, Ind. Ventilated boot. 2,668,372, Feb. 9.
Yaeger, Harry C., West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Stop positioning mechanism for typewriters. 2,668,612, Feb. 9.
Young Brothers Company, assignee: *See*—
Barnett, Charles A.
Zeuzem, Friedrich R., Frankfurt am Main, Germany, assignor of one-half to H. Wollner, New York, N. Y. Radially separable antifriction bearings. 2,668,743, Feb. 9.
Ziegler, William M.: *See*—
Lulek, Ralph N., and Ziegler.
Zimmerman, Richard G., Lawrence, Kans. Drier for printing presses. 2,668,700, Feb. 9.
Zimpel, Richard F., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Labeling machine. 2,668,632, Feb. 9.
Zinke, Erwin M., Oakland, Calif. Device for repairing automobile body members and the like. 2,668,727, Feb. 9.
Zollinger, Heinrich, Binningen, and R. Ruegg, assignors to Ciba Limited, Basel, Switzerland. Monoazo-dyestuffs. 2,668,811, Feb. 9.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF FEBRUARY, 1954

NOTE.—**Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).**

Automotive variable-speed transmission and control mechanism therefor. G. T. Randol. Re. 23,780, Feb. 9.
Fluidizing slag in the manufacture of steel by open hearth and electric furnace processes. J. J. Bowden. Re. 23,778, Feb. 9.
Selective solvent extraction of petroleum. J. Q. Cope and W. H. Claussen. Re. 23,779, Feb. 9.
Spraying device. H. C. Schutt. Re. 23,781, Feb. 9.

LIST OF PLANT INVENTIONS

Grapevine. P. K. Fujihara. P. P. 1,250, Feb. 9.

LIST OF DESIGN INVENTIONS

Aquarium breeding trap. H. W. Willinger and H. N. Nestler. 171,472, Feb. 9.
Ash tray and receptacle for smoking materials, Combined. F. J. Schroeder. 171,465, Feb. 9.
Brooch or similar article. R. Semensohn. 171,467, Feb. 9.
Cabinet for a heater or the like. L. H. Wilson. 171,473, Feb. 9.
Cap for containers, Dispensing. C. Bernabó. 171,432, Feb. 9.
Carpet underlay rubber mat. E. S. Robbins. 171,461, Feb. 9.
Chain, Ornamental. E. W. Deines. 171,442, Feb. 9.
Chair or similar article, Child's rocking. L. C. Peltier. 171,458, Feb. 9.
Circumcising instrument. A. Z. Krohn. 171,453, Feb. 9.
Clasp, Garter. J. J. Chisholm. 171,440, Feb. 9.
Cover for a hot-water bottle. F. P. Schur. 171,466, Feb. 9.
Cover lens for turn signal devices. W. J. Flett. 171,443, Feb. 9.
Dispensing device, Tag. M. Cornick. 171,441, Feb. 9.
Door knocker and bell, Combined. S. S. Sarna. 171,464, Feb. 9.
Duplicating machine. L. F. Mitchell. 171,456, Feb. 9
Fabric or similar article, Textile. J. E. Maisch. 171,454, Feb. 9.
Fabric, Quilted plastic. A. S. Bloomberg. 171,433, Feb. 9.
Frier, Egg. R. L. Gervais. 171,444, Feb. 9.
Hanger, Clothes. M. B. Kramer. 171,452, Feb. 9.
Lamp and costumer combination. R. Goldman and R. R. Nemzer. 171,446, Feb. 9.
Lamp base, Electric. D. Borowitz. 171,435, Feb. 9.
Lamp, Music box nursery. R. Goldman and R. R. Nemzer. 171,445, Feb. 9.
Lamp, Music box nursery. R. Goldman and R. R. Nemzer. 171,447–8, Feb. 9.
Lantern, Electric. R. T. Osman. 171,457, Feb. 9.
Link chain for a bracelet or the like, Expansible. E. Rodriguez. 171,462–3, Feb. 9.
Motor, Electric. A. G. Horvath, W. H. Juner, and R. L. Wolfe. 171,450, Feb. 9.
Music box and container or similar article, Combined. F. M. Breen. 171,436–7, Feb. 9.
Pendant scarecrow figure. J. H. Petter. 171,459, Feb. 9.
Press. R. E. Wissman. 171,474, Feb. 9.
Rack, Combined toothpaste, toothbrush, and razor. S. Simon. 171,468, Feb. 9.
Rack or similar article, Message. Z. A. Bump. 171,438, Feb. 9.
Ring, Finger. M. Manne. 171,455, Feb. 9.
Robot figure or similar article. H. G. Chapman, Jr. 171,439, Feb. 9.
Saw, Chain. H. I. Hazzard and V. C. Tyrrell. 171,449, Feb. 9.
Shoe heel. W. J. Walsh. 171,471, Feb. 9.
Stand and table, Combination. M. R. Yarger. 171,475, Feb. 9.
Stirrer or similar article, Drink. R. R. Borgfeldt. 171,434, Feb. 9.
Tile. J. M. Toohey. 171,470, Feb. 9.
Tire, Pneumatic. H. T. Kraft. 171,451, Feb. 9.
Tool, Pin and nail removing. M. Stock. 171,469, Feb. 9.
Toy, Animated figure. P. Reitzer. 171,460, Feb. 9.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF FEBRUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accounting machine. L. P. Crosman and H. J. Chall. 2,668,494, Feb. 9.
Acetal preparation. W. E. Price, Jr. 2,668,862, Feb. 9.
Adding machine, Plural totalizer. G. C. Ellerbeck. 2,668,660, Feb. 9.
Adjustable pipe cleaner. G. F. Clement. 2,668,551, Feb. 9.
Adjusting mechanism for feed dogs on conveyers. J. M. Lawson. 2,668,614, Feb. 9.
Aerating liquids, Means for. G. Szekely. 2,668,699, Feb. 9.
Agricultural machine and hoeing device therefor. L. A. Marihart. 2,668,487, Feb. 9.
Air entrainment type popcorn dispensers. W. E. Clark and J. E. Beall. 2,668,640, Feb. 9.
Alkanoic acid esters of aminoalcohols. R. L. Clark. 2,668,814, Feb. 9.
Alkylation of isoparaffins with naphthenes. A. Schneider. 2,668,865, Feb. 9.
Alkylene-bis(oxyalkylene-ammonium) compounds. M. W. Goldberg and L. M. Jampolsky. 2,668,855, Feb. 9.
Alloy: *See*—
Temperature compensator alloy.
Alumina, Production of. J. L. Porter. 2,668,751, Feb. 9.
Amplifier. M. Morrison. 2,668,882, Feb. 9.
Amplifier for attenuating the higher frequency components of signals. W. L. Hurford. 2,668,883, Feb. 9.
Amplifier system, Maximum gain-band width. E. L. Crosby, Jr. 2,668,881, Feb. 9.
Animal delivery instrument. T. A. and J. M. Dermody. 2,668,539, Feb. 9.
Antenna rotator. E. L. Barrett. 2,668,920, Feb. 9.
Antihunting system for constant speed engines. J. F. Lash. 2,668,921, Feb. 9.
Anticing and intake means for turbine propeller units. A. G. Elliott. 2,668,596, Feb. 9.
Antijackknifing device for trailers. R. L. Finch. 2,668,720, Feb. 9.
Antislipping device for shoes. L. V. Russo. 2,668,373, Feb. 9.
Antistick coated, steel building sheet. P. W. Jenkins. 2,668,781, Feb. 9.
Apparatus and process for corrugating paper. O. E. Larsson. 2,668,573, Feb. 9.
Apparatus for agitating materials. W. A. Kline, J. A. Monick, and E. E. Tarika. 2,668,694, Feb. 9.
Apparatus for automatically opening cans, dispensing their contents, and flushing the cans. H. Burge. 2,668,550, Feb. 9.
Apparatus for compartment heating. R. R. Anderson. 2,668,666, Feb. 9.
Apparatus for converting a hard frozen confection into a plastic state. F. W. Moffett, Jr. 2,668,506, Feb. 9.
Apparatus for determining densities of finely divided solid materials in a fluidized body of such materials. D. R. Hogin. 2,668,365, Feb. 9.
Apparatus for discharging finely divided materials under pressure. A. Z. Thompson. 2,668,388, Feb. 9.
Apparatus for dispensing stacked sheet material. T. J. Durksen. 2,668,704, Feb. 9.
Apparatus for ejecting containers and filling popcorn thereinto. W. E. Clark and J. E. Beall. 2,668,649, Feb. 9.
Apparatus for gauging. F. D. Moyer. 2,668,358, Feb. 9.
Apparatus for impressing transfer designs upon pottery blanks. W. A. Barker. 2,668,384, Feb. 9.
Apparatus for impressing transfer designs upon pottery blanks. N. V. Germany. 2,668,383, Feb. 9.
Apparatus for indicating and regulating viscosity. A. Osbourne. 2,668,442, Feb. 9.
Apparatus for lifting stacks of bricks and the like. H. J. Neher. 2,668,731, Feb. 9.
Apparatus for metering entrained air or gas by pressure observations. O. G. Patch. 2,668,437, Feb. 9.
Apparatus for molding corrugated asbestos-cement sheets. J. Segre. 2,668,574, Feb. 9.
Apparatus for reconditioning used oil. R. A. Irvine and R. J. Kramarz. 2,668,622, Feb. 9.
Apparatus for removing gases from a liquid. J. B. Seed. 2,668,598, Feb. 9.
Apparatus for stereophonic sound-recording. H. Friess. 2,668,880, Feb. 9.
Apparatus for the explosive pulverization of coal. J. F. Skelly. 2,668,669, Feb. 9.
Apparatus for vapor phase conversion of hydrocarbons at constant temperatures. W. W. Holland. 2,668,793, Feb. 9.

Armature assembly, Commutated wound. C. G. Johnson. 2,668,926, Feb. 9.
Armrest for vehicle seats. S. Goodfellow. 2,668,582, Feb. 9.
Article handling means. J. W. Kappen. 2,668,681, Feb. 9.
Article separating mechanism. J. J. Wetzler. 2,668,627, Feb. 9.
Aryloxymethyl halides, Preparing. H. J. Barber. 2,668,860, Feb. 9.
Attachment for shirt collar tabs, Shiftable. F. R. Garrido. 2,668,295, Feb. 9.
Automatic parts washer. W. A. Lebus. 2,668,549, Feb. 9.
Automatic shaft reverser and torque governor machine. J. A. Hjulian. 2,668,451, Feb. 9.
Automatic volume control. H. W. Augustadt and W. F. Kannenberg. 2,668,874, Feb. 9.
Automatically controlling the supply of liquid fuel to prime movers, Means for. O. N. Lawrence. 2,668,415, Feb. 9.
Auxiliary lamp snap-on filter. E. L. Barcus. 2,668,903, Feb. 9.
Axle for tractor-implement combinations, Drive. R. W. King. 2,668,597, Feb. 9.
Azapentylene-diammonium compounds. K. Miescher and A. Marxer. 2,668,854, Feb. 9.
Bag-filling device with valved pivotally mounted chute. E. W. Carlsen. 2,668,648, Feb. 9.
Ball catching and indicating device. H. G. Atwell. 2,668,715, Feb. 9.
Bar: *See*—
Self-spacing reinforcing lingual bar.
Basic ketones and salts thereof. M. W. Goldberg and A. I. Rachlin. 2,668,813, Feb. 9.
Battery pack, Flat dry cell. C. G. Nelson. 2,668,868, Feb. 9.
Bed, Vibrating. E. Dengrove. 2,668,302, Feb. 9.
Bed, Vibration. J. A. Tackaberry. 2,668,530, Feb. 9.
Beet topper, Rotary. D. F. Sherman. 2,668,407, Feb. 9.
β-dimethyl-aminoethyl-benzhydryl ether, Preparation of. H. Veldstra and A. M. Akkerman. 2,668,857, Feb. 9.
Bias woven narrow fabric. H. P. Welch. 2,668,296, Feb. 9.
Bis(ethylxanthoylthioxy)-methyl-phosphine oxide. H. Tolkmith. 2,668,820, Feb. 9.
Bis(O-ethyl dimethylamidophosphoric) dimethylamidophosphoric dianhydride. H. Tolkmith. 2,668,837, Feb. 9.
Bis(O,O-diethylphosphoric) dimethylamidophosphoric dianhydride. H. Tolkmith. 2,668,836, Feb. 9.
Bit: *See*—
Earth boring bit.
Blade mounting and driver for hair clippers and the like. M. and M. G. Andis. 2,668,351, Feb. 9.
Bleaching process. H. A. Mulvany. 2,668,772, Feb. 9.
Blouse, Combination. L. L. Levy. 2,668,293, Feb. 9.
Bomb for laying wire entanglements. G. A. Mourlaque. 2,668,499, Feb. 9.
Bonded permeable articles, Making a. A. F. Schramm, Jr. 2,668,787, Feb. 9.
Boot grease and leather preservative and producing it. H. C. Schmid. 2,668,773, Feb. 9.
Boot, Ventilated. S. E. Wright. 2,668,372, Feb. 9.
Bottle carrier. E. L. Arneson. 2,668,653, Feb. 9.
Bowling alley pin setting apparatus. W. F. Kling. 2,668,712, Feb. 9.
Bowling ball retarder. W. F. Huck. 2,668,714, Feb. 9.
Bowling pin handling machine. F. W. Anderson. 2,668,713, Feb. 9.
Brace, Center. L. J. Palombo. 2,668,563, Feb. 9.
Bracket: *See*—
Leveling bracket.
Bracket for looms, Doff safety. A. L. Thibault. 2,668,561, Feb. 9.
Brake control system for motor vehicles. J. and A. Weiss. 2,668,608, Feb. 9.
Brake for railway cars, Hand. F. E. Bretz, Jr. 2,668,457, Feb. 9.
Broiler, Electric food. W. P. Von Behren. 2,668,898, Feb. 9.
Brush element with fibers held in channel member and making same. W. A. Parry. 2,668,311, Feb. 9.
Bubble tube for specific gravity meters. C. M. Marquardt. 2,668,438, Feb. 9.
Building unit, Hollow structural. N. T. Clements. 2,668,435, Feb. 9.

Burring or chamfering gears, Method and means for. J. M. Christman. 2,668,480, Feb. 9.
Bushing. M. J. Sturtevant, W. L. Weertman, and W. D. Brown. 2,668,316, Feb. 9.
Cabinet and drawer for microscope slides, Filing. E. C. Weiskopf. 2,668,746, Feb. 9.
Cable lashing machine. L. H. Stanford. 2,668,688, Feb. 9.
Cake expander. L. A. Little and T. L. Williams. 2,668,678, Feb. 9.
Calcium carbonate composition, Preparing. B. B. McHan. 2,668,749, Feb. 9.
Calendar, Perpetual. C. S. Spencer. 2,668,382, Feb. 9.
Calipers, Calibrated. M. R. Litchfield. 2,668,359, Feb. 9.
Camera, Continuous recording high speed frame. B. Brixner. 2,668,473, Feb. 9.
Capacitor construction. W. Dubilier. 2,668,935, Feb. 9.
Car top carrier with side loading device. C. I. Nielsen. 2,668,646, Feb. 9.
Carbon disulfide, Production of. H. O. Folkins and E. Miller. 2,668,752, Feb. 9.
Carburetor. E. C. Rollins. 2,668,698, Feb. 9.
Carburetor antiflooding device. J. E. Eberhardt. 2,668,696, Feb. 9.
Card handling machine. C. H. Stuivenberg. 2,668,626, Feb. 9.
Carrier: *See*—
Bottle carrier.
Folding golf club and ball carrier.
Carton. W. G. Freel and S. F. Jones. 2,668,654, Feb. 9.
Carton, Egg. H. R. Russell. 2,668,652, Feb. 9.
Case making machine, Round corner. J. E. Stringer. 2,668,575, Feb. 9.
Casting patterned plastic sheets. F. E. Porter. 2,668,328, Feb. 9.
Cellulose, Production of. S. C. Bate, F. G. Peach, and W. A. Rogerson. 2,668,761, Feb. 9.
Centrifugally released clutch. C. H. Sparklin. 2,668,611, Feb. 9.
Centrifuge machine. A. Peltzer, Sr. 2,668,658, Feb. 9.
Chair: *See*—
Lounge chair.
Chair. F. J. Luketa. 2,668,580, Feb. 9.
Charging blast furnaces, Method and apparatus for. H. W. Campbell and C. P. Johnson. 2,668,628, Feb. 9
Cigarette-making device, Pocket. G. Burnstein. 2,668,545, Feb. 9.
Cigarette mouthpiece material. G. Davidson. 2,668,544, Feb. 9.
Cipher device. C. A. Hepp. 2,668,369, Feb. 9.
Circuit: *See*—
Cosine sweep circuit. Integrator circuit.
Circuit breaker. R. C. Ingwersen. 2,668,886, Feb. 9.
Clamp for connecting filamentary articles to moving traction elements. J. E. Lodge. 2,668,337, Feb. 9.
Clamp for screen frames. P. M. Thompson. 2,668,621, Feb. 9.
Cleaner: *See*—
Adjustable pipe cleaner. High vacuum cleaner.
Comb cleaner.
Cleaner for mechanical cotton pickers. H. L. Gieszl. 2,668,330, Feb. 9.
Clinch ring. T. Kingsbury. 2,668,399, Feb. 9.
Clip: *See*—
Partition clip.
Closure pull member. J. R. Keys, C. F. Van Buskirk, and H. D. Oberdorfer. 2,668,319, Feb. 9.
Clothespin. C. Harrison. 2,668,338, Feb. 9.
Clothespin. J. S. Matta. 2,668,339, Feb. 9.
Clutch: *See*—
Centrifugally released clutch. Fluid released clutch.
Torque limiting clutch.
Clutch springs, Making. S. F. Gorske. 2,668,347, Feb. 9.
Coating composition comprising a vinyl chloride polymer dispersed in a mixture of plasticizer and an alkyl ether of a mono- or diethylene glycol. A. C. Schultz. 2,668,801, Feb. 9.
Coating fabric on either or both faces, Method of and apparatus for. H. C. Bostwick. 2,668,572, Feb. 9.
Coating the interior surfaces of tanks. B. Gross. 2,668,782, Feb. 9.
Coffee measure and dispenser having an integral handle and closure operating member. K. L. Seeley. 2,668,427, Feb. 9.
Coil winding machine. D. W. T. Van Alen. 2,668,670, Feb. 9.
Comb cleaner. E. Troendle. 2,668,305, Feb. 9.
Combination horizontal and vertical electric and steam iron. R. Carlston. 2,668,431, Feb. 9.
Combination lock. A. Schnegg. 2,668,433, Feb. 9.
Commutation of discharge tubes and particularly of rectifiers and inverters. P. M. G. Toulon. 2,668,939, Feb. 9.
Commutator and manufacture thereof. J. N. Coates. 2,668,894, Feb. 9.
Commutator testing apparatus. M. R. Seelhoff. 2,668,618, Feb. 9.
Compensator for shotguns. G. R. Batten. 2,668,479, Feb. 9.
Composite rubber and resinous plastic materials and making same. E. H. Phreaner. 2,668,789, Feb. 9.
Compositions comprising polyepoxides and polyhydric phenol polyether alcohols having terminal phenolic groups. S. O. Greenlee. 2,668,805, Feb. 9.
Computer, Complex. G. R. Stibitz. 2,668,661, Feb. 9.
Conching a chocolate mass and the like, Method and device for. J. E. Nauta. 2,668,764, Feb. 9.
Condenser: *See*—
Electrical condenser.
Conduit system for machine tools. W. G. Hoelscher. 2,668,557, Feb. 9.
Connecting chair back rests to tubular structural ends, Means for. M. Greitzer. 2,668,584, Feb. 9.
Connecting means for electrical conductors. L. P. Chaney. 2,668,948, Feb. 9.
Connector for wrist watches or ornamentation. K. A. Rieth. 2,668,343, Feb. 9.
Contact and arc runner structure for circuit interrupting devices. A. C. Kelle. 2,668,892, Feb. 9.
Contact mechanism for circuit breakers. F. Driescher, Jr. 2,668,891, Feb. 9.
Container: *See*—
Merchandise display container. Quick-release cargo container.
Container of viscous material with rotary compress discharge pump, Flexible, nonelastic. B. B. Gilmore. 2,668,637, Feb. 9.
Container with pouring spout and composite blank for making same. A. J. Irving. 2,668,643, Feb. 9.
Continuous mixer. G. E. Gard. 2,668,693, Feb. 9.
Continuous production of metallic zinc from oxidic zinc ores. F. G. Breyer and A. Delruelle. 2,668,760, Feb. 9.
Continuous record of interferometric gas analysis. T. H. Benzinger and C. Kitzinger. 2,668,471, Feb. 9.
Control apparatus for jet engines. L. Lee, II. 2,668,414, Feb. 9.
Control mechanism for spin-dry washing machines. C. F. Emmert. 2,668,432, Feb. 9.
Control of gas production in the vapor phase conversion of liquid hydrocarbons. W. W. Holland. 2,668,791, Feb. 9.
Conversion arrangement for suction cleaners. L. E. Segesman. 2,668,314, Feb. 9.
Converter. J. T. McNaney. 2,668,940, Feb. 9.
Converter arrangement for suction cleaners. D. C. Gerber. 2,668,313, Feb. 9.
Cooling vaporous materials. A. C. Mueller. 2,668,424, Feb. 9.
Correcting crystal blanks, Method and apparatus for. R. F. Holzrichter and E. E. Overbey. 2,668,397, Feb. 9.
Corrugated packing sheet. E. L. Perry. 2,668,786, Feb. 9.
Cosine sweep circuit. M. A. Starr. 2,668,910, Feb. 9.
Cotton picking means. J. J. Bramblett. 2,668,410, Feb. 9.
Coupling for trailer vehicles. H. U. Krefting. 2,668,723, Feb. 9.
Cracking catalyst reactivation. C. J. Plank. 2,668,798, Feb. 9.
Current collector. R. J. Bondley. 2,668,923, Feb. 9.
Current regulator. A. Bunblasky and W. H. Henrich. 2,668,937, Feb. 9.
Curtain assembly and power drive therefor. J. H. Luckie. 2,668,586, Feb. 9.
Curtain, Ventiltaed shower. J. I. Kinmons. 2,668,298, Feb. 9.
Curtain, Window. M. A. and H. I. London. 2,668,587, Feb. 9.
Cyclic control program system. D. F. Illian. 2,668,589, Feb. 9.
Cylinder support means for rotary tape printing presses. G. G. Thompson. 2,668,496, Feb. 9.
Damper, Dustproof. W. F. Metzger. 2,668,684, Feb. 9.
Decorative article. J. Pettorossi. 2,668,385, Feb. 9.
Defoliant compositions. E. S. Roos and P. C. Hamm. 2,668,758, Feb. 9.
Demonstrating and recording relative motion between objects, Means for. H. B. Trimble. 2,668,370, Feb. 9.
Dental bridge. I. Quellman. 2,668,353, Feb. 9.
Determining the true specific gravity of wood, Process and means for. T. Reichert. 2,668,439, Feb. 9.
Device for assorting long stemmed cherries from short stemmed cherries. P. Wormser and D. Madrid. 2,668,619, Feb. 9.
Device for automatic frequency control, more particularly for the reception of carrier shift signals. A. Violet and M. Cornilleau. 2,668,871, Feb. 9.
Device for cooling bonded tubing. G. G. Mally. 2,668,510, Feb. 9.
Device for discharging fruit, bulbs, and similar articles from traveling conveyors. A. W. Jansen. 2,668,651, Feb. 9.
Device for extinguishing electrical arcs. A. Latour. 2,668,890, Feb. 9.
Device for giving angular motion when shifting jaw clutches. R. R. Crookston and A. L. Seljos. 2,668,450, Feb. 9.
Device for repairing automobile body members and the like. E. M. Zinke. 2,668,727, Feb. 9.
Device for restoring defective knitted fabrics. G. T. Smith. 2,668,428, Feb. 9.
Device for scraping and testing well tubing. L. E. Hay. 2,668,593, Feb. 9.
Device for transmitting ultrasound energy. T. F. Hüter. 2,668,529, Feb. 9.
Device for weaving of fabrics. V. Svatý. 2,668,560, Feb. 9.
Dial mechanism, Micrometer. T. H. Evans. 2,668,515, Feb. 9.
Dimethoxyresorcinol, Preparation of. T. A. Geissman. 2,668,861, Feb. 9.

Dipper for ladling dairy products, Knockdown sampling. H. S. Spencer. 2,668,448, Feb. 9.
Dispenser: *See*—
Air entrainment type popcorn dispenser.
Dispenser employing air entrainment means for corn transfer, Popcorn. E. E. Martin. 2,668,636, Feb. 9.
Display device. M. Artmann. 2,668,371, Feb. 9.
Distillation system for recovering spent pumping oils. R. J. Schmidt. 2,668,794, Feb. 9.
Doll construction with noise effects. P. Rekettye. 2,668,393, Feb. 9.
Doll, Spring motor operated rocking. J. H. Williams. 2,668,392, Feb. 9.
Double casing pump. E. J. Blackwell. 2,668,502, Feb. 9.
Double casing pump. H. L. Ross. 2,668,503, Feb. 9.
Drawer support and guide structure, Extension. F. H. Metcalf. 2,668,745, Feb. 9.
Drier: *See*—
Hair drier.
Drier for printing presses. R. G. Zimmerman. 2,668,700, Feb. 9.
Drill: *See*—
Grain drill.
Drive mechanism for magnetic tape record machine. B. Roberts. 2,668,674, Feb. 9.
Drum mixer with power-operated discharge positioning means. E. H. Lichtenberg and D. C. Jones. 2,668,695, Feb. 9.
Drying of materials by infrared radiation. R. F. Colton. 2,668,364, Feb. 9.
Dyeing or performing related processes upon textile using molten metal, Process and apparatus for. R. S. E. Hannay and W. Kilby. 2,668,747, Feb. 9.
Dynamic diode tester. B. T. Wilson. 2,668,943, Feb. 9.
Dynamoelectric machine. F. R. Merriam, Jr. 2,668,924, Feb. 9.
Earth boring bit. J. A. Moore. 2,668,691, Feb. 9.
Edger and finisher. L. M. Budd. 2,668,568, Feb. 9.
Egg carton set-up device. M. Burger. 2,668,482, Feb. 9.
Electric iron. J. E. Vance. 2,668,378, Feb. 9.
Electric machine construction. D. W. Bloser. 2,668,925, Feb. 9.
Electrical condenser. A. E. C. Bennett. 2,668,946, Feb. 9.
Electrical condenser. P. Robinson. 2,668,936, Feb. 9.
Electrical system for operating inverters in parallel. C. G. Puchy. 2,668,919, Feb. 9.
Electrical therapy, Means for. W. J. Browner. 2,668,540, Feb. 9.
Electrode mounting for electrical discharge lamps, and particularly for discharge lamps with fluorescent screens. R. F. D. Navarre. 2,668,928, Feb. 9.
Electrode structure. H. A. Wintermute. 2,668,600, Feb. 9.
Electromagnetic machine, Reversible. E. Granat. 2,668,941, Feb. 9.
Electromechanical translator. E. W. Gent and O. Myers. 2,668,877, Feb. 9.
Electron discharge device. H. C. Jonas and R. W. Sears. 2,668,927, Feb. 9.
Electrooptical analysis of the crystalline content of liquids, method and apparatus for. K. A. Fischer. 2,668,470, Feb. 9.
Electrostatic precipitator. D. R. Whittet. 2,668,599, Feb. 9.
Elevator, Bed patient. O. J. Brouillette. 2,668,301, Feb. 9.
Engine starting apparatus. L. C. Dermond. 2,668,916, Feb. 9.
Engraving device. J. Clark. 2,668,355, Feb. 9.
Epoxide compositions. S. O. Greenlee. 2,668,807, Feb. 9.
Ester-type synthetic lubricants. M. B. Neuworth. 2,668,848, Feb. 9.
Ethylxanthoylthioxy - cyano - methyl - phosphine oxide. H. Tolkmith. 2,668,823, Feb. 9.
Ethylxanthoylthioxy - N,N - diethylamino - cyanophosphine oxide. H. Tolkmith. 2,668,833, Feb. 9.
Ethylxanthoylthioxy - N,N - diethylamino - methyl - phosphine oxide. H. Tolkmith. 2,668,822, Feb. 9.
Ethylxanthoylthioxy - N,N,N',N' - tetraethyl - diaminophosphine sulfide. H. Tolkmith. 2,668,832, Feb. 9.
Exercising apparatus, Medical. R. J. Boyko. 2,668,709, Feb. 9.
Eye protective device. G. H. Schauweker. 2,668,291, Feb. 9.
Fabric: *See*—
Bias woven narrow fabric.
Fabric and manufacture thereof, Elastic. P. E. F. Clay. 2,668,565, Feb. 9.
Fan shroud. E. P. Lamb. 2,668,523, Feb. 9.
Fastener assembly, Snap. W. I. Jones. 2,668,340, Feb. 9.
Fastening device. A. G. Grodson. 2,668,724, Feb. 9.
Field joint mold. G. P. Killian and J. A. Kilian. 2,668,344, Feb. 9.
Filamentous textile having a processing finish. G. D. Jefferson and R. D. Fine, III. 2,668,785, Feb. 9.
Film developing hanger drip trough. W. C. Barker, Jr. 2,668,486, Feb. 9.
Filter: *See*—
Auxiliary lamp snap-on filter.
Heat protection filter.
Filtering apparatus. D. J. Munroe. 2,668,623, Feb. 9.
Fishhook, Bait retaining. T. Gallardo. 2,668,387, Feb. 9.
Fishhook making. W. J. de Witt and H. A. Corbett. 2,668,590, Feb. 9.
Flameproofing textile materials. W. L. Dills. 2,668,784, Feb. 9.
Flexible tread press wheel. W. P. Oehler and A. J. Immesoete. 2,668,490, Feb. 9.
Flow valve. J. H. Howard and P. R. Mills. 2,668,553, Feb. 9.
Fluid carbon dioxide composition. D. Mapes. 2,668,419, Feb. 9.
Fluid operated motor. F. C. and E. V. Best. 2,668,520, Feb. 9.
Fluid released clutch. T. Backus. 2,668,610, Feb. 9.
Fluorescent and iridescent wrinkle-finish coating containing a hydrous iron oxide as pigment, Production of a. W. A. Waldie. 2,668,799, Feb. 9.
Flush tank valve. F. S. Reed. 2,668,297, Feb 9.
Fly-wheel starter, Electrically driven. E. Uber. 2,668,917, Feb. 9.
Folding golf club and ball carrier. G. C. Wright. 2,668,721, Feb. 9.
Folding structure for conversion from a chair to a cot and vice versa. C. E. Pearman. 2,668,578, Feb. 9.
Foot actuating trolling impeller. W. Reynolds. 2,668,513, Feb. 9.
Foot supporting device. E. B. Ward. 2,668,375, Feb. 9.
Forming a hollow core plywood door. J. J. Waldherr. 2,668,788, Feb. 9.
Forming a photo emitter. E. A. Taft. 2,668,778, Feb. 9.
Frame: *See*—
Loom harness heddle frame.
Frame for motor vehicles. J. Müller. 2,668,722, Feb. 9.
Front cover means for stapling machines. H. S. Heller. 2,668,290, Feb. 9.
Fuel control apparatus for turbojet engines. L. Lee, II. 2,668,416, Feb. 9.
Fuel feed control for gas turbine engines. H. Oestrich, S. Decher, and W. Stein. 2,668,585, Feb. 9.
Furnace: *See*—
Hearth type furnace.
Fuse holder. E. L. Johnson. 2,668,888, Feb 9.
Game device, Rolling ball. J. J. Morsch. 2,668,716, Feb. 9.
Garment, Maternity. J. L., L. N. and S. S. Alberts. 2,668,292, Feb. 9.
Gas burner and burning gas in oil and gas wells. J. J. Piros and O. F. Campbell. 2,668,592, Feb. 9.
Gas regulator. F. Kern, Jr. 2,668,396, Feb. 9.
Gauge for firearms, Headspace. E. J. Keller. 2,668,360, Feb. 9.
Gauge for measuring external dimensions. D. G. Stålhandske and E. A. Johnson. 2,668,361, Feb. 9.
Generator: *See*—
High voltage generator.
Goggle valve. A. Bowland. 2,668,558, Feb. 9.
Golf tee. R. F Carlson 2,668,710, Feb 9.
Golf tee having ball supporting fibers. J. L. McLaughlin. 2,668,711, Feb. 9.
Gown, Disposable hospital. P. B. Gilpin. 2,668,294, Feb. 9.
Grab-bucket, Automatic. P. J.-M. T. Allard. 2,668,377, Feb. 9.
Grain drill. W. A. Hyland. 2,668,737, Feb. 9.
Grass catcher for lawn mowers. J. C. Kircher, Jr. 2,668,411, Feb. 9.
Grating. L. Bustin. 2,668,484, Feb. 9.
Ground traction for self-propelled vehicles, Interchangeable. D. F. Przybylski. 2,668,738, Feb. 9.
Guanidine-formaldehyde condensation products, Preparing. C. A. Robinson. 2,668,808, Feb. 9.
Guard for sinkwalls. M. F. Grill 2,668,300, Feb 9.
Guide device for a sliding door. C. B. Le Bon, III. 2,668,317, Feb. 9.
Hair curler. A. Teopilian. 2,668,546, Feb. 9.
Hairdo accessory. R. E. Wille. 2,668,547, Feb 9.
Hair drier. C. Chedister. 2,668,367, Feb. 9.
Hair vacuum cleaner. W. D. Crosby. 2,668,315, Feb. 9.
Handle for fishing landing nets, Extensible. W. Benner, Jr. 2,668,386, Feb. 9.
Handle for tooth or denture brushes, Nonslip. S. H. Grossman. 2,668,308, Feb. 9.
Headlamp rim light. N. Fisher. 2,668,902, Feb. 9.
Hearth type furnace. H. W. Beecher. 2,668,521, Feb. 9.
Heat exchanger. K. M. Hammell 2,668,692, Feb. 9.
Heat processing apparatus. C. A. Barnett. 2,668,366, Feb. 9.
Heat protection filter. H. Schröder. 2,668,478, Feb. 9.
Heater. S. Husaczka, H. M. Johansen, and N. E. Cardini. 2,668,896, Feb. 9.
Heating control system. K. L. Dietrich. 2,668,701, Feb. 9.
Heat-sealed and heat-shrunk package, Making. H. Rumsey, Jr. 2,668,403, Feb. 9.
High viscosity polyvinyl alcohol, Preparation of. H. W. Bryant and W. R. Cornthwaite. 2,668,809, Feb. 9.
High voltage generator. K. Schlesinger. 2,668,911, Feb. 9.
Holder: *See*—
Fuse holder.
Locking gun holder.
Honeycomb product, Making a curved. R. C. Steele. 2,668,327, Feb. 9.
Hot top for ingot molds. J. H. Jones. 2,668,336, Feb. 9.

Husking machine having combination picking and husking rolls, Corn. G. W. Stoddard. 2,668,543, Feb. 9.
Hydraulic loader. H. R. Reese. 2,668,631, Feb. 9.
Hydraulic oil well pump jack. C. R. Craft. 2,668,517, Feb. 9.
Hydraulic valve lifter. G. T. Randol. 2,668,524, Feb. 9.
Hydrindenedione derivatives and their preparation. K. Miescher and P. Wieland. 2,668,858, Feb. 9.
Hydrocyclone, Multiple. F. J. Fontein. 2,668,620, Feb. 9.
Hydrogen peroxide, Production of. C. R. Harris and J. W. Sprauer. 2,668,753, Feb. 9.
Hydrometer. F. R. Wilson. 2,668,440, Feb. 9.
Ice-making machine. D. B. McShan. 2,668,422, Feb. 9.
Image-reproducing plate and cylinder assembly. J. A. Boyajean, Jr. 2,668,498, Feb. 9.
Incubator. O. P. Schadt. 2,668,665, Feb. 9.
Insole, Spring cushioning. W. Seigle. 2,668,374, Feb. 9.
Instrument for operating on mitral valves. J. R. Farries and J. P. Gigoux. 2,668,536, Feb. 9.
Integrator circuit. W. Roth. 2,668,662, Feb. 9.
Inverter for three-phase system. W. H. Henrich. 2,668,938, Feb. 9.
Iron: *See*—
Combination horizontal and vertical electric and steam iron.
Electric iron.
Smoothing iron.
Iron rest. E. C. Binggely. 2,668,379, Feb. 9.
Isomerization of paraffin wax. G. M. Good, J. W. Gibson, and B. S. Greensfelder. 2,668,790, Feb. 9.
Isomerization of paraffin wax. G. M. Good, J. W. Gibson, and B. S. Greensfelder. 2,668,866, Feb. 9.
Jack: *See*—
Hydraulic oil well pump jack.
Lathe tool jack.
Joint for windows, doors, and the like, Air tight. A. Gonzalez del Valle. 2,668,333, Feb. 9.
Journal box lubricator. C. Vincent. 2,668,742, Feb. 9.
Journal lubricator. H. T. Rockwell. 2,668,741, Feb. 9.
Keeper means for cotton picking spindle slats. J. J. Bramblett. 2,668,409, Feb. 9.
Kickout and hold-down device for fastener attaching machines. J. P. Treciokas. 2,668,633, Feb. 9.
Knitting needle, Extensible. B. E. Barsky. 2,668,429, Feb. 9.
Labeling machine. R. F. Zimpel. 2,668,632, Feb. 9.
Lamp holder for reflector-type outdoor lamps. M. B. Austin, Jr. 2,668,901, Feb. 9.
Lamp shade stud support. P. Miller. 2,668,906, Feb. 9.
Lapidary tool. E. A. Bacchi. 2,668,400, Feb. 9.
Latch mechanism for gates. R. G. Ferris. 2,668,381, Feb. 9.
Lathe tool jack. H. C. Paine. 2,668,467, Feb. 9.
Lens unit mount, Adjustable. W. R. Isom. 2,668,476, Feb. 9.
Letterhead, Magnetic. B. Roberts. 2,668,718, Feb. 9.
Leveling bracket. W. R. Cockrell. 2,668,744, Feb. 9.
Lid and hood support for motor vehicles, Hinged. W. R. Lustig. 2,668,320, Feb. 9.
Lifter: *See*—
Hydraulic valve lifter.
Light: *See*—
Headlamp rim light.
Lighting fixture, Electric. S. McCandless. 2,668,904, Feb. 9.
Liquid-liquid contacting, Method of and apparatus for. S. C. Carney. 2,668,756, Feb. 9.
Lister unit for ditchers. E. V. Briscoe. 2,668,376, Feb. 9.
Load limiter for speed governors. F. H. Sweet. 2,668,519, Feb. 9.
Loading apparatus. T. Ertl. 2,668,630, Feb. 9.
Loading apparatus and method. F. Weyerhaeuser. 2,668,322, Feb. 9.
Lock: *See*—
Combination lock.
Mail chute lock.
Nozzle lock.
Locking device for molding flasks. J. F. Hines. 2,668,335, Feb. 9.
Locking gun holder. P. M. Pease. 2,668,645, Feb. 9.
Lockup for printing presses. H. L. McWhorter. 2,668,497, Feb. 9.
Loom harness heddle frame. B. T. Leveque. 2,668,559, Feb. 9.
Loom stop motion. J. Lachapelle. 2,668,562, Feb. 9.
Loose-leaf binder. R. Anglin. 2,668,541, Feb. 9.
Loose-leaf binder. R. L. McVean. 2,668,542, Feb. 9.
Lotting machine. G. A. Staub. 2,668,717, Feb. 9.
Lounge chair. F. J. Luketa. 2,668,581, Feb. 9.
Lubricating device. W. H. Korn. 2,668,739, Feb. 9.
Lubricating device for internal-combustion engines. C. B. Pierce. 2,668,525, Feb. 9.
Lubricating means for differential mechanisms. B. W. Keese. 2,668,601, Feb. 9.
Lubricator: *See*—
Journal box lubricator.
Journal lubricator.
Machine for cutting screw threads. A. Christen. 2,668,303, Feb. 9.
Machine for handling fruit. G. W. Ashlock, Jr. 2,668,613, Feb. 9.
Machine for manufacturing valve bags. P. C. Robinson. 2,668,481, Feb. 9.
Machine for the manufacture of hollow glass articles. J. Maillart. 2,668,395, Feb. 9.
Magnetic mechanism for controlling flow of rinse water in dishwashing machines. G. J. Federighi and T. H. Noren. 2,668,548, Feb. 9.
Magnetron. E. D. McArthur. 2,668,929, Feb. 9.
Mailbox signal. H. M. Horton. 2,668,657, Feb. 9.
Mail chute lock. G. A. Bridgman. 2,668,434, Feb. 9.
Making creaseless, completely flattened, extruded plastic tubing, Means for. W. J. Johnson. 2,668,324, Feb. 9.
Marking glass tubes, Means for. R. H. Forbes. 2,668,356, Feb. 9.
Massager, Hydro pneumatic. L. J. Steinberg. 2,668,299, Feb. 9.
Material handling and unloading device for vehicles. E. D. Dahlman. 2,668,629, Feb. 9.
Mattress winding and wrapping machine. J. W. Droll. 2,668,405, Feb. 9.
Measuring instrument, Surface temperature. E. A. Kraemer. 2,668,446, Feb. 9.
Measuring instrument with permanent magnet restoring means, Electrical. W. E. Pfeffer. 2,668,945, Feb. 9.
Measuring soapbox device. F. M. Martischang. 2,668,641, Feb. 9.
Meat-curing composition, Manufacture of. L. A. Hall. 2,668,770, Feb. 9.
Mechanical indicating current limiter. M. D. Lazar. 2,668,887, Feb. 9.
Medical apparatus. R. P. Evans. 2,668,533, Feb. 9.
Medical instrument, Veterinary. E. J. Frick. 2,668,528, Feb. 9.
Merchandise display container. R. F. Nylen. 2,668,616, Feb. 9.
Metal article, Protected. D. S. Hubbell. 2,668,348, Feb. 9.
Meter device. F. L. Whipple. 2,668,357, Feb. 9.
Milk products, Frozen concentrated. E. G. Stimpson. 2,668,765, Feb. 9.
Milling attachment for lathe. C. F. Harmon. 2,668,719, Feb. 9.
Mirror assembly, Main and auxiliary. C. Shaikun. 2,668,477, Feb. 9.
Mixer: *See*—
Continuous mixer.
Mold: *See*—
Field joint mold.
Mold surface coating. L. H. Heyl. 2,668,774, Feb. 9.
Molded resistance device. W. H. Kliever. 2,668,932, Feb. 9.
Molding machine, Injection. G. R. Goodwin. 2,668,325, Feb. 9.
Monoazo-dyestuffs. H. Zollinger and R. Ruegg. 2,668,811, Feb. 9.
Mop and attachment therefor. M. Solomon. 2,668,312, Feb. 9.
Mortar and pestle device, Automatic. A. Doschek. 2,668,668, Feb. 9.
Motor: *See*—
Fluid operated motor.
Motor gasoline additive. J. E. Hickok and J. A. Ryan. 2,668,522, Feb. 9.
Motor starting system, One shot rocket. B. N. Abramson. 2,668,412, Feb. 9.
Motor support. C. H. Fowler. 2,668,687, Feb. 9.
Motor vehicle garment hanger rack. J. C. Osburn and J. E. Brown. 2,668,647, Feb. 9.
Mounting: *See*—
Refrigerator utility drawer mounting.
Rocker block axle mounting.
Mounting for sprockets, pinions or the like. M. T. Schumb. 2,668,454, Feb. 9.
Mounting means for multicomponent optical assemblies. J. W. Gabel. 2,668,469, Feb. 9.
Multiple stage centrifugal pump. M. W. Lutz. 2,668,501, Feb. 9.
Neutral calcium 4-aminosalicylate hemihydrate and preparation of the same. A. P. Bentz and R. J. Turner. 2,668,852, Feb. 9.
Nonaqueous carbon dispersions, Preparing. V. L. Hansley. 2,668,757, Feb. 9.
Nozzle, Jet. J. W. Meckenstock. 2,668,504, Feb. 9.
Nozzle lock. H. D. Moser. 2,668,680, Feb. 9.
Nozzle structure for rotary brushing devices. J .D. Conway. 2,668,310, Feb. 9.
O-(β,β,β-trichlorotertiarybutyl) N,N-diethylamidoalkanephosphonates. H. Tolkmith. 2,668,838, Feb. 9.
O-(β,β,β-trichlorotertiarybutyl) O-(4-nitrophenyl) alkanephosphonates. H. Tolkmith. 2,668,844, Feb. 9.
O-(β,β,β-trichlorotertiarybutyl) O-(2,4,5-trichlorophenyl) methanephosphonate. H. Tolkmith. 2,668,843, Feb. 9.
O-ethyl O-(2,4,5-trichlorophenyl) methanephosphonate. H. Tolkmith. 2,668,841, Feb. 9.
O-ethyl S-(ethylxanthoyl) N,N-diethylamidothiophosphate. H. Tolkmith. 2,668,831, Feb. 9.
O-(4-nitrophenyl) alkanephosphonic chlorides. H. Tolkmith. 2,668,846, Feb. 9.
O-(4-nitrophenyl) N,N-diethylamidoalkanephosphonates. H. Tolkmith. 2,668,840, Feb. 9.
O-(4-nitrophenyl) S-(ethylanthoyl) dithiophosphoric chloride. H. Tolkmith. 2,668,824, Feb. 9.
O,O-bis(β,β,β-trichlorotertiarybutyl) methanephosphonate. H. Tolkmith. 2,668,842, Feb. 9.
O,O-bis(4-nitrophenyl) alkanephosphonates. H. Tolkmith. 2,668,845, Feb. 9.
O-(2,4,5-trichlorophenyl) N,N-diethylamidoalkanephosphonates. H. Tolkmith. 2,668,839, Feb. 9.
O-(2,4,5-trichlorophenyl) S-(ethylxanthoyl) dithiophosphoric chloride. H. Tolkmith. 2,668,834, Feb. 9.

Opener, Mechanical box. J. K. C. Fat. 2,668,569, Feb. 9.
Optical apparatus for inspecting the contour of articles. J. Walker and P. Leng. 2,668,475, Feb. 9.
Oscillating seat. R. C. Swengel. 2,668,579, Feb. 9.
Outboard motor support. R. H. Harneit. 2,668,679, Feb. 9.
P-methoxy benzhydryl ethers. H. Morren. 2,668,856, Feb. 9.
Package and manufacture. Paper. R. W. Schlienz. 2,668,769, Feb. 9.
Packaging filamentary material. G. G. Whytlaw. 2,668,402, Feb. 9.
Packing retainer for journal boxes. J. D. Herr. 2,668,740, Feb. 9.
Pan and electric resistance support, Range top burner. E. A. Rutenber. 2,668,899, Feb. 9.
Panoramic receiver bandpass compensation system. E. E. Herman. 2,668,908, Feb. 9.
Partition clip. N. Nelsson. 2,668,342, Feb. 9.
Pedal extension. L. E. Russell. 2,668,458, Feb. 9.
Pencil marking machine. G. G. Wright. 2,668,495, Feb. 9.
Penicillin salt of N,N'-bis-p,p'-carbodiethylaminoethoxyphenyl. R. N. Lulek and W. M. Zeigler. 2,668,812, Feb. 9.
Perfluoro olefins, Making. L. J. Hals, T. S. Reid, and G. H. Smith. 2,668,884, Feb. 9.
Phasing of engines, motors, and the like. W. A. Tolson. 2,668,418, Feb. 9.
Phenol and acetone, Production of. I. Scriabine. 2,668,859, Feb. 9.
Phenyl-phenethyl ketones. M. W. Goldberg and A. I. Rachlin. 2,668,850, Feb. 9.
Phosphate furnace feed, Production of. W. M. Houston. 2,668,617, Feb. 9.
Photocell construction. C. Ekstein. 2,668,867, Feb. 9.
Photographic oxidizers, Nonacid. L. Rubinstein. 2,668,763, Feb. 9.
Photographic printing apparatus. E. C. Rogers, Jr. 2,668,474, Feb. 9.
Phthalimide, Preparation of. G. F. Schlaudecker. 2,668,326, Feb. 9.
Piano flange reamer and repinning tool. C. B. Archer. 2,668,463, Feb. 9.
Pie and pie crust blank. J. F. Lowe. 2,668,767, Feb. 9.
Pigments and molding powders comprising polyvinyl acetal resins dyed with azo dyes. L. A. Lantz, A. Schofield, and E. Spinner. 2,668,804, Feb. 9.
Piston reconditioning device. E. W. Tillis. 2,668,462, Feb. 9.
Plastic composition comprising a vinyl halide polymer and a phosphorus containing compound as a plasticizer therefor. F. Johnston. 2,668,800, Feb. 9.
Plastic injection device. G. Barradas and R. H. Motten, Jr. 2,668,534, Feb. 9.
Plow, Vineyard. W. L. Shimmon. 2,668,488, Feb. 9.
Plug and multiple tap for electrical cords, Fused. M. E. Gerlat. 2,668,885, Feb. 9.
Plumber's tool. W. J. Eberle and E. B. Dubuisson. 2,668,511, Feb. 9.
Pneumatic impact tool. C. E. White. 2,668,518, Feb. 9.
Polisher, Floor. E. O. Kohl. 2,668,306, Feb. 9.
Polishing buff wheel. R. E. Busch and E. L. Kurtzwarth. 2,668,398, Feb. 9.
Polygon cone draft tube. P. H. Thomas. 2,668,686, Feb. 9.
Polymeric vinyl phenol-aldehyde resins. E. M. Evans and J. E. S. Whitney. 2,668,802, Feb. 9.
Polyvinyl aromatic acetals and pigments therefrom, Manufacture of. L. A. Lantz and A. Schofield. 2,668,803, Feb. 9.
Powder spray gun. G. B. Mornik. 2,668,594, Feb. 9.
Power bending machine for dies. S. Leskiewicz and F. A. Hartung. 2,668,571, Feb. 9.
Power load equalizer. E. Berklege. 2,668,459, Feb. 9.
Power mower, steered by walking attendant. Reciprocating. K. J. Klenk. 2,668,408, Feb. 9.
Power plant, Tide-operated. V. W. Howell. 2,668,918, Feb. 9.
Power plant with duplexed blading, Gas turbine. J. V. Gilliberty. 2,668,413, Feb. 9.
Power supply voltage regulator. A. A. Varela and R. A. Herring, Jr. 2,668,942, Feb. 9.
Power transmission apparatus, Variable-ratio. H. F. Hobbs. 2,668,552, Feb. 9.
Power transmission unit. J. P. Butterfield and H. W. Gilfillan. 2,668,460, Feb. 9.
Power unit. E. Uher. 2,668,914, Feb. 9.
Preregistering of plates by projection of register marks. P. L. Tollison and C. L. Ricards. 2,668,346, Feb. 9.
Preselector, Magnetically operated. R. A. Hamilton. 2,668,588, Feb. 9.
Pressure process for impregnating wood. M. J. Herman. 2,668,779, Feb. 9.
Pressure-sustaining sealing head. J. B. Wilson. 2,668,650, Feb. 9.
Printing control mechanism for typewriter-computers, Total. O. W. Swanson. 2,668,659, Feb. 9.
Printing telegraph receiver. D. S. Ridler. 2,668,870, Feb. 9.
Prosthesis for hip joint. E. J. Haboush. 2,668,531, Feb. 9.
Protective system. C. G. Suits. 2,668,930, Feb. 9.
Protein adhesives. A. C. Beckel and P. A. Belter. 2,668,766, Feb. 9.
Pump: *See*—
Double casing pump. Sylphon sealed pump.
Multiple stage centrifugal pump. Two-zone pump.
Vacuum pump.
Pump and motor type fluid transmission, Rotary. V. E. Gleasman. 2,668,417, Feb. 9.
Purification of alcohols. W. R. Norris. 2,668,863, Feb. 9.
Purification of by-product halide salts. I. J. Krchma. 2,668,750, Feb. 9.
Quick-release cargo container. N. W. Carlson. 2,668,732, Feb. 9.
Rack: *See*—
Motor vehicle garment hanger rack.
Rack and drier, Combined. E. N. Jacobs. 2,668,368, Feb. 9.
Radially separable antifriction bearings. F. R. Zenzem. 2,668,743, Feb. 9.
Radio signaling system, Uutrahigh-frequency. J. M. T. Evans. 2,668,907, Feb. 9.
Radio viewing system. H. A. Iams. 2,668,869, Feb. 9.
Razor, Safety. P. J. Graybill. 2,668,350, Feb. 9.
Receptacle and combined pouring spout, vent, and valve therefor. A. N. Johannesen. 2,668,642, Feb. 9.
Reclaiming detergent solutions. F. W. Wehmiller and W. J. Nekola. 2,668,796, Feb. 9.
Recorder head and support therefor, Magnetic sound pickup. E. W. D'Arcy. 2,668,879, Feb. 9.
Recording system, Data. J. O'D. Shepherd. 2,668,875, Feb. 9.
Recovering carbon black from a gaseous suspension. M. F. Lichtenfels. 2,668,754, Feb. 9.
Reel for printing presses, Web supply. H. L. McWhorter. 2,668,676, Feb. 9.
Reel for printing presses, Web supply. F. N. Palmatier. 2,668,677, Feb. 9.
Reeling filament articles, Method of and apparatus for. C. B. Clotworthy, Jr. 2,668,673, Feb. 9.
Refrigerator car with fan and brine circulating system. T. M. Elfving. 2,668,421, Feb. 9.
Refrigerator utility drawer mounting. C. F. Petkwitz. 2,668,423, Feb. 9.
Register for telephone switching systems, Electronic. N. I. Hall, G. Hecht, and C. D. Koechling. 2,668,931, Feb. 9.
Registering device, Degree-day. E. D. Hidy. 2,668,445, Feb. 9.
Registering printing plates, Means for. S. W. Lippitt. 2,668,363, Feb. 9.
Regulator: *See*—
Current regulator. Power supply voltage regulator.
Gas regulator.
Relay system. L. G. Nierman. 2,668,934, Feb. 9.
Remote control apparatus for door control mechanisms. A. R. de Vito. 2,668,730, Feb. 9.
Remote control mechanism, especially for vehicles with fluid drive. H. Herrmann. 2,668,455, Feb. 9.
Removal of acidic substances from fluid mixtures by aqueous amine solutions and the prevention of corrosion therein. H. C. Asbury. 2,668,748, Feb. 9.
Removing impurities from a gas liquefaction system with aid of extraneous gas stream. G. T. Skaperdas. 2,668,425, Feb. 9.
Rendering cellulosic materials fire resistant. I. M. Panik and W. F. Sullivan. 2,668,780, Feb 9.
Respirator with interchangeable filters. R. B. Evans. 2,668,532, Feb. 9.
Reversing mechanism. J. A. Hjullan. 2,668,452, Feb. 9.
Ring: *See*—
Clinch ring.
Ring and unit therefor, Combination wedding and engagement. J. H. Schaeffer. 2,668,605, Feb. 9.
Rivet. H A. Flogaus. 2,668,468, Feb. 9.
Rock drilling equipment. A. Cameron. 2,668,690, Feb. 9.
Rocker block axle mounting. R. N. Janeway. 2,668,505, Feb. 9.
Roller head and gauge, Multiple. P. W. Johnson. 2,668,362, Feb. 9.
Roof structure of the lantern light or deck light type, Glazed and like. J. Fox-Williams. 2,668,509, Feb. 9.
Rotor control mechanism for aircraft of rotary wing type. C. H. Kaman. 2,668,595, Feb. 9.
Rubber products having an annular rim such as vaginal diaphragms, Production of. L. Landau. 2,668,329, Feb. 9.
Running board and means for attaching the same to the roof of railway cars. C. S. Johnston. 2,668,507, Feb. 9.
S-(ethylxanthoyl) methanethiolphosphonic chloride. H. Tolkmith. 2,668,818, Feb. 9.
S-(ethylxanthoyl) N,N-diethylamidothiophosphoric chloride. H. Tolkmith. 2,668,825, Feb. 9.
S-(ethylxanthoyl) O-ethyl methanethiolphosphonate. H. Tolkmith. 2,668,821, Feb 9.
S-(ethylxanthoyl) O-(4-nitrophenyl) methanethiolphosphonate. H. Tolkmith. 2,668,819, Feb. 9.
S-(ethylxanthoyl) O-(4-nitrophenyl) O-ethyl dithiophosphate. H. Tolkmith. 2,668,829, Feb. 9.
S-(ethylxanthoyl) O,O-di (4-nitrophenyl) dithiophosphate. H. Tolkmith. 2,668,827, Feb. 9.
S-(ethylxanthoyl) O,O-di (2,4,5-trichlorophenyl) dithiophosphate. H. Tolkmith. 2,668,826, Feb. 9.
S,S-bis(ethylxanthoyl) O-ethyl trithiophosphate. H. Tolkmith. 2,668,828, Feb. 9.
S,S-bis(ethylxanthoyl) O-(4-nitrophenyl) trithiophosphate. H. Tolkmith. 2,668,830, Feb. 9.

Safety device for stuffing apparatus. C. O. Schmidt, Jr. 2,668,321, Feb. 9.
Safeway baby poser. N. Vanderschel. 2,668,577, Feb. 9.
Salt attachment for pickup balers. A. Chmielewski. 2,668,492, Feb. 9.
Salt composition and manufacture thereof, Stable curing. L. A. Hall. 2,668,771, Feb. 9.
Sampling apparatus. H. S. Lenhart. 2,668,447, Feb. 9.
Saponification of polyvinyl esters. E. Bergmeister, W. Gruber, and J. Heckmaier. 2,668,810, Feb. 9.
Sash tightening device, Retractable. J. E. Haynes. 2,668,728, Feb. 9.
Saw unit, Motor-driven reciprocating. H. M. Olson. 2,668,567, Feb. 9.
Scale, Hydraulic. J. R. Belknap. 2,668,702, Feb. 9.
Screens, Producing. L. Rubinstein. 2,668,762, Feb. 9.
Seat: *See*—
Oscillating seat.
Seat safety guard, Automobile. A. Singer. 2,668,583, Feb. 9.
Securing device. G. S. Watters. 2,668,729, Feb. 9.
Seed distributor. R. L. Joy. 2,668,638, Feb. 9.
Self-spacing reinforcing lingual bar. A. Ricalo. 2,668,354, Feb. 9.
Separation of coarse light minerals in multiple cyclone-separator stages. K. A. Fern and C. F. Allen. 2,668,667, Feb. 9.
17,20-hydroxyketones of the pregnane series and new and useful compounds of the said series, Preparation of. K. Miescher and J. Schmidlin. 2,668,816, Feb. 9.
Sewer cleaning ball. S. D. Preen. 2,668,307, Feb. 9.
Shaker, Salt and pepper. W. D. Scalf. 2,668,639, Feb. 9.
Shears with linkage, Sheet metal. C. B. Garland. 2,668,352, Feb. 9.
Sheet feeding and slitting machine with strip feeding device. W. P. Winters. 2,668,591, Feb. 9.
Sheet feeding mechanism, Pneumatic. G. Spiess. 2,668,707, Feb. 9.
Sheet material feeding apparatus, Push button controlled. H. Rosenthal. 2,668,705, Feb. 9.
Shell making process. G. R. Eckstein. 2,668,345, Feb. 9.
Shield, Broiler reflector. J. E. Chambers. 2,668,527, Feb. 9.
Shield, Can. G. C. Bennett. 2,668,635, Feb. 9.
Shingle corner construction. J. D. Roth. 2,668,332, Feb. 9.
Shingle, Interlocking. P. C. Newfield, Sr. 2,668,508, Feb. 9.
Shoes for normal wear, Making. A. E. Murray. 2,668,304, Feb. 9.
Signal: *See*—
Mailbox signal.
Simultaneously feeding two wires, Means for. P. M. Sampatacos. 2,668,615, Feb. 9.
Smoothing iron. J. H. Beach and J. E. Vance. 2,668,897, Feb. 9.
Snap-acting mechanism for opening electric switches and the like. W. E. Dunshee. 2,668,449, Feb. 9.
Snap-action thermostatic switch. A. E. Baak. 2,668,889, Feb. 9.
Socket, Transmitting tube. R. Leopold and J: R. Casamento. 2,668,940, Feb. 9.
Sorting machine, Check. L. J. Benson. 2,668,706, Feb. 9.
Splicing device for magnetic tape. R. M. Nichols. 2,668,576, Feb. 9.
Stabilization of edible fats and oils. J. A. Chenicek. 2,668,768, Feb. 9.
Stable anthrone. L. R. Jones and P. C. Markunas. 2,668,797, Feb. 9.
Stacking device. T. R. Sykes. 2,668,483, Feb. 9.
Stage assembly, Miniature electron tube. G. Shapiro. 2,668,933, Feb. 9.
Stage construction and photographing system, Movable. J. T. Lierley. 2,668,472, Feb. 9.
Stage, Foldable platform. W. J. Horn. 2,668,331, Feb. 9.
Steel beam, Fabricated. B. F. King. 2,668,606, Feb. 9.
Steelmaking process. M. Tenenbaum. 2,668,759, Feb. 9.
Steering system, Marine propeller. H. J. Nichols. 2,668,514, Feb. 9.
Stitch failure detector. H. Conrad and L. Bowers. 2,668,289, Feb. 9.
Stocking. R. K. Laros. 2,668,430, Feb. 9.
Stop for the spring clips of earrings, Adjustable. E. L. Arzt. 2,668,341, Feb. 9.
Stop motion apparatus for wrapping machines. J. C. Barefoot. 2,668,404, Feb. 9.
Stop positioning mechanism for typewriters. H. C. Yaeger. 2,668,612, Feb. 9.
Strainer attachment. F. W. Wahlin. 2,668,624, Feb. 9.
Stress determining instrument. M. Berman. 2,668,444, Feb. 9.
Support: *See*—
Lamp shade stud support. Outboard motor suport.
Motor support.
Support for electric irons. H. W. Wilson. 2,668,380, Feb. 9.
Support for sliding doors, Adjustable. C. B. Le Bon, III. 2,668,318, Feb. 9.
Supporting column. L. C. Stiles and R. A. Davis. 2,668,607, Feb. 9.
Supporting device, Adjustable. K. B. Freed. 2,668,683, Feb. 9.
Suppressing gas production in the vapor phase conversion of hydrocarbons. W. W. Holland. 2,668,792, Feb. 9.
Surface active agents. K. R. Ellar. 2,668,851, Feb. 9.
Surface finishing glass and article produced thereby. W. J. Migley. 2,668,783, Feb. 9.
Surgical clamping means. E. E. Baker. 2,668,538, Feb. 9.
Surgical instrument. K. A. Kapp. 2,668,537, Feb. 9.
Suspension polymerization process. R. N. Haward and J. Elly. 2,668,806, Feb. 9.
Switch: *See*—
Snap-action thermostatic switch.
Switch. W. F. Allenby. 2,668,895, Feb. 9.
Switch apparatus, Electrical. J. W. Jacobs. 2,668,884, Feb. 9.
Switch construction, Electric lamp. L. H. Morin. 2,668,905, Feb. 9.
Switchgear, Electrical. G. E. Vaughan. 2,668,893, Feb. 9.
Switch operator for children. J. V. Meistrell. 2,668,456, Feb. 9.
Switching system, Double-selection electronic. F. P. Gohorel. 2,668,876, Feb. 9.
Sylphon sealed pump. E. T. Booth, Jr., and H. C. Paxton. 2,668,606, Feb. 9.
Synchronized light and camera shutter system. T. D. Hobbs. 2,668,485, Feb. 9.
Syringe, Hypodermic. N. B. Jorgensen. 2,668,535, Feb. 9.
Tank and making same, Spherical segment. C. Arne. 2,668,634, Feb. 9.
Target trap with automatically varied throwing angle. C. L. Woolsey. 2,668,526, Feb. 9.
Telescopic hoisting boom. C. B. Garland. 2,668,625, Feb. 9.
Telescopic shock absorber piston construction. H. L. Chisholm, Jr. 2,668,604, Feb. 9.
Temperature compensator alloy. R. E. Schwyn and R. H. Mitchel. 2,668,944, Feb. 9.
Temperature control for heating systems. R. R. Williams. 2,668,664, Feb. 9.
Testing apparatus for thermostatic switches. J. W. Jacobs and A. O. Grooms. 2,668,436, Feb. 9.
Textile item and filament yarn, Woven. R. K. Laros. 2,668,564, Feb. 9.
Thermoplastic refractories. J. W. Craig. 2,668,775, Feb. 9.
Thermostatic valve. L. J. Kmiecik. 2,668,663, Feb. 9.
Thioesters and process. L. W. Newton. 2,668,847, Feb. 9.
Thiophosgene, Production of. E. F. Orwoll. 2,668,853, Feb. 9.
Thread grinding mechanism and method. C. A. Reimschissel. 2,668,401, Feb. 9.
Threader, Needle. R. B. and W. W. Lillard. 2,668,644, Feb. 9.
3,11 alpha, 20-triacyloxy-3,17 (20)-pregnadienes and process. B. J. Magerlein. 2,668,817, Feb. 9.
Timer for X-ray apparatus, Exposure. S. A. Johnston. 2,668,909, Feb. 9.
Tire rivet. C. A. Pfeifer. 2,668,570, Feb. 9.
Titanium dioxide pigment and preparing. N. F. Miller. 2,668,776, Feb. 9.
Tongs, Automatic power. D. R. Cormany. 2,668,689, Feb. 9.
Tongs with work holding jaws. J. I. Boticki. 2,668,733, Feb. 9.
Tool: *See*—
Lapidary tool. Wire cutting and stripping tool.
Plumber's tool.
Pneumatic impact tool.
Torque limiting clutch. V. A. Hoover. 2,668,426, Feb. 9.
Torque transmitting eddy-current apparatus. W. S. Burdick and R. E. Meyer. 2,668,922, Feb. 9.
Towing means for antitorpedo devices, Faired. H. W. Klas. 2,668,512, Feb. 9.
Toy, Magnetic. R. W. Morrison. 2,668,389, Feb. 9.
Toy, Motor-driven wheeled. G. G. Huard and R. J. E. Roger. 2,668,391, Feb. 9.
Toy, Squeezable pop-out action. J. M. Auzin. 2,668,394, Feb. 9.
Toy submarine. R. W. Fredericks. 2,668,390, Feb. 9.
Tractor-mounted lister. W. H. Silver and W. V. Lohrman. 2,668,489, Feb. 9.
Trailer for carrying general freight and automobiles. W. O. Bridge. 2,668,734, Feb. 9.
Transducer. D. J. Munroe. 2,668,878, Feb. 9.
Transfer mechanism for sealing means. L. Back. 2,668,708, Feb. 9.
Transformer, Convertible. H. R. Stewart. 2,668,947, Feb. 9.
Transmission. O. H. Banker. 2,668,453, Feb. 9.
Transmission with reverse brake, Automotive. F. W. Dixon. 2,668,609, Feb. 9.
Treating the interior surface of tubing being extruded, Means for. W. J. Johnson. 2,668,323, Feb. 9.
Tree-felling and log-sawing attachment for tractors. G. A. Goodlet. 2,668,566, Feb. 9.
Tripod construction, Folding. B. H. Dalton. 2,668,682, Feb. 9.
Tris(O-ethyl dimethylamidophosphoryl) phosphate. H. Tolkmith. 2,668,835, Feb. 9.
Truck, Industrial. W. W. Cushman. 2,668,602, Feb. 9.
Tube: *See*—
Polygon cone draft tube.
Tube finishing machine. T. J. Henderson. 2,668,461, Feb. 9.
Turbine apparatus. F. A. Meyer. 2,668,556, Feb. 9.
Two-zone pump. T. P. Hoffer. 2,668,500, Feb. 9.

Vacuum pump. H. G. Bowering. 2,668,655, Feb. 9.

Valve: *See*—
Flow valve. Goggle valve.
Flush tank valve. Thermostatic valve.

Valve for carburetors, Density responsive. L. E. Sager. 2,668,697, Feb. 9.

Valve for fluidized catalyst conversion system, Plug-type control. H. Kershaw and E. D. Dowling. 2,668,755, Feb. 9.

Valve for locomotive boilers, Blow-off. C. Ocker. 2,668,685, Feb. 9.

Valve for wells, Differential flow. W. H. Seyffert, Jr. 2,668,554, Feb. 9.

Valve with adjustable valve seat, Excess flow cutoff. A. F. Bartolat. 2,668,555, Feb. 9.

Vapor power control system and operating vapor power system. P. S. Dickey. 2,668,915, Feb. 9.

Vaporizer for internal-combustion engines, Fuel. M. J. Kwartz. 2,668,900, Feb. 9.

Vat dyestuffs of the perylene-tetracarboxylic acid bis-arylimide series. P. Nawiasky. 2,668,815, Feb. 9.

Vehicle wheel. J. M. Poche. 2,668,736, Feb. 9.

Ventilator, Power roof. R. A. Gerlitz. 2,668,491, Feb. 9.

Vertical synchronizing system. R. E. Graham. 2,668,873, Feb. 9.

Vertical synchronizing system. C. W. Harrison. 2,668,872, Feb. 9.

Vibration damping device. W. R. Winslow. 2,668,603, Feb. 9.

Viscosimeter. W. M. Peterson. 2,668,441, Feb. 9.

Vise having fixed jaw located between movable cylinder and movable jaw, Pneumatic. R. I. Kaufman. 2,668,465, Feb. 9.

Washcloth provided with pockets for a hand of the user and a cake of soap. G. T. Colgan. 2,668,309, Feb. 9.

Washer: *See*—
Automatic parts washer.

Water heating and room cooling system and method employing heat pumps, Combination. K. M. Hammell. 2,668,420, Feb. 9.

Weighing system. W. E. Moss and O. Garapolo. 2,668,493, Feb. 9.

Wheel: *See*—
Flexible tread press wheel. Vehicle wheel.
Polishing buff wheel.

Wheel balancing machine, Static and dynamic. R. L. Welch. 2,668,443, Feb. 9.

White brass plating. C. J. Wernlund. 2,668,795, Feb. 9.

Whitening agents for organic materials. H. Gold and S. Petersen. 2,668,777, Feb. 9.

Winding machine. N. E. Klein. 2,668,671–2, Feb. 9.

Winding machine. H. J. Wolfe. 2,668,675, Feb. 9.

Winding machine, Spring. W. Darin and J. J. Palid. 2,668,349, Feb. 9.

Window operator, Motor vehicle. J. Haffey. 2,668,703, Feb. 9.

Window sash, Auxiliary. H. Radomski. 2,668,334, Feb. 9.

Window well construction for autobuses. M. M. Brockway. 2,668,735, Feb. 9.

Windshield wiper. R. Deibel. 2,668,725, Feb. 9.

Windshield wiper. C. L. Stewart and E. F. Aldrich. 2,668,726, Feb. 9.

Wire cutting and stripping tool. L. B. Paules. 2,668,464, Feb. 9.

Wrapping or packing machine. D. R. P. Jackson. 2,668,406, Feb. 9.

Wrench with work engaging nut, Sink strainer. F. E. Schofield. 2,668,466, Feb. 9.

Writing device. P. Jovanovitsch. 2,668,516, Feb. 9.

X-ray apparatus. E. R. Goldfield and R. J. Stava. 2,668,912, Feb. 9.

X-ray apparatus, E. R. Goldfield, R. J. Stava, and E. J. Bastin. 2,668,913, Feb. 9.

CLASSIFICATION OF PATENTS

ISSUED FEBRUARY 9, 1954

NOTE.—First number = class, second number = subclass, third number = patent number

1— 4: 2,668,287
49: 2,668,290
2— 14: 2,668,291
27: 2,668,292
105: 2,668,293
114: 2,668,294
132: 2,668,295
274: 2,668,296
4— 57: 2,668,297
154: 2,668,298
180: 2,668,299
187: 2,668,300
5— 86: 2,668,301
104: 2,668,302
8— 34: 2,668,747
10— 101: 2,668,303
12— 142: 2,668,304
15— 39: 2,668,305
50: 2,668,306
104.06: 2,668,307
106: 2,668,308
122: 2,668,309
180: 2,668,310
199: 2,668,311
299: 2,668,312
325: 2,668,313
333: 2,668,314
344: 2,668,315
16— 2: 2,668,316
91: 2,668,317
100: 2,668,318
111: 2,668,319
163: 2,668,320
17— 39: 2,668,321
18— 1: 2,668,322
14: 2,668,323
2,668,324
30: 2,668,325
47.2: 2,668,326
47.5: 2,668,327
58: 2,668,328
59: 2,668,329
19— 76: 2,668,330
20—1.123: 2,668,331
5: 2,668,332
40: 2,668,333
42: 2,668,334
22— 107: 2,668,335
147: 2,668,336
23— 2: 2,668,748
66: 2,668,749
91: 2,668,750
143: 2,668,751
206: 2,668,752
207: 2,668,753
209.9: 2,668,754
288: 2,668,755
310: 2,668,756
24— 85: 2,668,337
138: 2,668,338
139: 2,668,339
216: 2,668,340
252: 2,668,341
261: 2,668,342
265: 2,668,343
25— 127: 2,668,344
29— 1.3: 2,668,345
21: 2,668,346
173: 2,668,347
195: 2,668,348
211: 2,668,349
30— 60.5: 2,668,350
210: 2,668,351
242: 2,668,352
32— 6: 2,668,353
7: 2,668,354
33— 18: 2,668,355
21: 2,668,356
61: 2,668,357
126.5: 2,668,358
154: 2,668,359
168: 2,668,360
174: 2,668,361
178: 2,668,362
184.5: 2,668,363
34— 4: 2,668,364
57: 2,668,365
66: 2,668,366
99: 2,668,367
151: 2,668,368
35— 3: 2,668,369
7: 2,668,370
53: 2,668,371
36— 3: 2,668,372
7.6: 2,668,373
28: 2,668,374
71: 2,668,375
37— 98: 2,668,376
187: 2,668,377
38— 77: 2,668,378
79: 2,668,379
2,668,380
39— 28: 2,668,381
40— 109: 2,668,382
41— 1: 2,668,383
2,668,384
11: 2,668,385
43— 12: 2,668,386
44.4: 2,668,387
148: 2,668,388
44— 51: 2,668,757
46— 45: 2,668,389
95: 2,668,390
107: 2,668,391
2,668,392
117: 2,668,393
135: 2,668,394
47— 62: P.P.1,250
49— 9: 2,668,395
50— 23: 2,668,396
51— 161: 2,668,397
193: 2,668,398
2,668,399
229: 2,668,400
288: 2,668,401
53— 4: 2,668,402
10.5: 2,668,403
29: 2,668,404
52: 2,668,405
131: 2,668,406
56— 26: 2,668,407
26.5: 2,668,408
42: 2,668,409
44: 2,668,410
199: 2,668,411
60—39.14: 2,668,412
39.16: 2,668,413
39.28: 2,668,414
2,668,415
2,668,416
53: 2,668,417
97: 2,668,418
62— 1: 2,668,419
4: 2,668,420
24: 2,668,421
106: 2,668,422
116: 2,668,423
170: 2,668,424
175.5: 2,668,425
64— 29: 2,668,426
65— 28: 2,668,427
66— 1: 2,668,428
117: 2,668,429
178: 2,668,430
68— 5: 2,668,431
26: 2,668,432
70— 4: 2,668,433
77: 2,668,434
71— 2.7: 2,668,758
72— 41: 2,668,435
73— 1: 2,668,436
19: 2,668,437
32: 2,668,438
2,668,439
34: 2,668,440
56: 2,668,441
59: 2,668,442
66: 2,668,443
88: 2,668,444
339: 2,668,445
367: 2,668,446
422: 2,668,447
425.4: 2,668,448
74— 97: 2,668,449
138: 2,668,450
323: 2,668,451
323: 2,668,452
330: 2,668,453
333: Re.23,780
432: 2,668,454
501: 2,668,455
503: 2,668,456
505: 2,668,457
562.5: 2,668,458
751: 2,668,459
780: 2,668,460
75— 52: 2,668,759
54: Re.23,778
88: 2,668,760
78— 103: 2,668,461
80— 5.1: 2,668,462
81— 5.1: 2,668,463
9.5: 2,668,464
17.2: 2,668,465
90: 2,668,466
82— 36: 2,668,467
85— 40: 2,668,468
88— 1: 2,668,469
14: 2,668,470
2,668,471
16: 2,668,472
2,668,473
24: 2,668,474
2,668,475
57: 2,668,476
91: 2,668,477
109: 2,668,478
89— 14: 2,668,479
90— 1.4: 2,668,480
92— 9: 2,668,761
93— 8: 2,668,481
37: 2,668,482
93: 2,668,483
94— 5: 2,668,484
95— 11.5: 2,668,485
81: 2,668,762
88: 2,668,763
100: 2,668,486
97— 38: 2,668,487
46.89: 2,668,488
47.12: 2,668,489
56: 2,668,490
98— 43: 2,668,491
99— 23: 2,668,764
55: 2,668,765
81: 2,668,766
92: 2,668,767
163: 2,668,768
171: 2,668,769
222: 2,668,770
2,668,771
230: 2,668,772
235: 2,668,492
256: 2,668,493
101— 93: 2,668,494
110: 2,668,495
178: 2,668,496
378: 2,668,497
415.1: 2,668,498
102— 89: 2,668,499
103— 4: 2,668,500
108: 2,668,501
109: 2,668,502
111: 2,668,503
272: 2,668,504
105—224.1: 2,668,505
106— 7: 2,668,773
38.25: 2,668,774
61: 2,668,775
300: 2,668,776
107— 32: 2,668,506
108— 5.4: 2,668,507
9: 2,668,508
16: 2,668,509
113— 98: 2,668,510
103: 2,668,511
114— 240: 2,668,512
115— 25: 2,668,513
35: 2,668,514
116— 124: 2,668,515
117—33.23: 2,668,778
33.5: 2,668,777
59: 2,668,779
62: 2,668,780
117— 85: 2,668,781
97: 2,668,782
124: 2,668,783
138: 2,668,784
139.5: 2,668,785
120—42.13: 2,668,516
121— 1: 2,668,517
30: 2,668,518
42: 2,668,519
44: 2,668,520
122— 2: 2,668,521
123— 1: 2,668,522
41.49: 2,668,523
90: 2,668,524
196: 2,668,525
124— 9: 2,668,526
126— 39: 2,668,527
128— 3: 2,668,528
24: 2,668,529
33: 2,668,530
92: 2,668,531
146: 2,668,532
214: 2,668,533
216: 2,668,534
218: 2,668,535
305: 2,668,536
318: 2,668,537
321: 2,668,538
361: 2,668,539
423: 2,668,540
129— 8: 2,668,541
24: 2,668,542
130— 5: 2,668,543
131— 10: 2,668,544
70: 2,668,545
132— 42: 2,668,546
46: 2,668,547
134— 46: 2,668,548
56: 2,668,549
62: 2,668,550
169: 2,668,551
136— 89: 2,668,867
111: 2,668,868
137— 115: 2,668,552
155: 2,668,553
2,668,554
498: 2,668,555
656: 2,668,556
138— 61: 2,668,557
94.5: 2,668,558
139— 92: 2,668,559
127: 2,668,560
193: 2,668,561
340: 2,668,562
358: 2,668,563
420: 2,668,564
421: 2,668,565
143— 43: 2,668,566
68: 2,668,567
144— 134: 2,668,568
145— 21: 2,668,569
152— 370: 2,668,570
153— 48: 2,668,571
154— 10: 2,668,572
30: 2,668,573
2,668,574
41: 2,668,575
42.3: 2,668,576
55: 2,668,786
92: 2,668,787
118: 2,668,788
139: 2,668,789
155— 36: 2,668,577
45: 2,668,578
56: 2,668,579
105: 2,668,580
2,668,581
112: 2,668,582
189: 2,668,583
196: 2,668,584
158— 36: 2,668,585
160— 241: 2,668,586
349: 2,668,587
161— 1: 2,668,588
2,668,589
164— 48: 2,668,590
61: 2,668,591
166— 17: 2,668,592
18: 2,668,593
169— 33: 2,668,594
170—135.24: 2,668,595
135.28: 2,668,596
178— 6.8: 2,668,869
34: 2,668,870
66: 2,668,871
69.5: 2,668,872
2,668,873
179— 1: 2,668,874
7.1: 2,668,875
18: 2,668,876
2,668,877
100.2: 2,668,878
2,668,879
100.3: 2,668,880
171: 2,668,881
2,668,882
2,668,883
180— 75: 2,668,597
183— 2.5: 2,668,598
7: 2,668,599
2,668,600
184— 11: 2,668,601
187— 9: 2,668,602
188— 96: 2,668,603
100: 2,668,604
189— 36: 2,668,605
37: 2,668,606
38: 2,668,607
192— 3: 2,668,608
4: 2,668,609
91: 2,668,610
104: 2,668,611
196—14.31: Re.23,779
50: 2,668,790
61: 2,668,791
2,668,792
116: 2,668,793
197— 63: 2,668,612
198— 33: 2,668,613
221: 2,668,614
200— 88: 2,668,884
115.5: 2,668,885
116: 2,668,886
121: 2,668,887
129: 2,668,888
138: 2,668,889
144: 2,668,890
146: 2,668,891
147: 2,668,892
159: 2,668,893
166: 2,668,894
167: 2,668,895
202— 158: 2,668,794
203— 230: 2,668,615
204— 44: 2,668,795
206—45.14: 2,668,616
209— 2: 2,668,617
81: 2,668,618
108: 2,668,619
211: 2,668,620
319: 2,668,621
210— 2: 2,668,796
113.5: 2,668,622
152: 2,668,623
170: 2,668,624
212— 55: 2,668,625
214— 6: 2,668,626
8.5: 2,668,627
37: 2,668,628
83.2: 2,668,629
131: 2,668,630
140: 2,668,631
216— 52: 2,668,632
218— 6: 2,668,633
219— 19: 2,668,896
25: 2,668,897
35: 2,668,898
37: 2,668,899
38: 2,668,900
220— 1: 2,668,634
85: 2,668,635
222— 2: 2,668,636
95: 2,668,637
139: 2,668,638
222— 151: 2,668,639
156: 2,668,640
455: 2,668,641
484: 2,668,642
541: 2,668,643
223— 99: 2,668,644
224— 1: 2,668,645
42.1: 2,668,646
2,668,647
226— 18: 8,668,648
19: 2,668,649
85: 2,668,650
93: 2,668,651
229— 15: 2,668,652
28: 2,668,653
31: 2,668,654
230— 158: 2,668,655
203: 2,668,656
232— 35: 2,668,657
233— 21: 2,668,658
235— 59: 2,668,659
60.27: 2,668,660
61: 2,668,661
2,668,662
236— 93: 2,668,663
237— 8: 2,668,664
14: 2,668,665
43: 2,668,666
240— 3: 2,668,901
7.1: 2,668,902
46.59: 2,668,903
52: 2,668,904
123: 2,668,905
148: 2,668,906
241— 24: 2,668,667
36: 2,668,668
39: 2,668,669
242— 9: 2,668,670
35.5: 2,668,671
2,668,672
54: 2,668,673
55: 2,668,674
56: 2,668,675
58: 2,668,676
2,668,677
130: 2,668,678
248— 4: 2,668,679
75: 2,668,680
120: 2,668,681
169: 2,668,682
280: 2,668,683
250— 15: 2,668,907
20: 2,668,908
27: 2,668,909
2,668,910
36: 2,668,911
57: 2,668,912
62: 2,668,913
251— 54: 2,668,684
65: 2,668,685
252— 408: 2,668,797
413: 2,668,798
253— 117: 2,668,686
254— 126: 2,668,687
134.3: 2,668,688
255— 35: 2,668,689
53: 2,668,690
61: 2,668,691
257— 241: 2,668,692
259— 9: 2,668,693
96: 2,668,694
171: 2,668,695
260— 22: 2,668,799
30.6: 2,668,800
31.8: 2,668,801
33.4: 2,668,802
41: 2,668,803
2,668,804
42: 2,668,805
45.5: 2,668,806
47: 2,668,807
60: 2,668,808
91.3: 2,668,809
2,668,810
199: 2,668,811
239.1: 2,668,812
240: 2,668,813

260—247. 2: 2,668,814
272: 2,668,815
397. 45: 2,668,816
397. 5: 2,668,817
455: 2,668,818
2,668,819
2,668,820
2,668,821
2,668,822
2,668,823
2,668,824
2,668,825
2,668,826
2,668,827
2,668,828
2,668,829
2,668,830
2,668,831
2,668,832
2,668,833
2,668,834
461: 2,668,835
2,668,836
2,668,837

260— 461: 2,668,838
2,668,839
2,668,840
2,668,841
2,668,842
2,668,843
2,668,844
2,668,845
2,668,846
481: 2,668,847
485: 2,668,848
501: 2,668,850
513: 2,668,851
519: 2,668,852
543: 2,668,853
567. 6: 2,668,854
2,668,855
570: 2,668,856
2,668,857
586: 2,668,858
593: 2,668,859
612: 2,668,860
613: 2,668,861
615: 2,668,862

260— 643: 2,668,863
653: 2,668,864
666: 2,668,865
683. 5: 2,668,866
261— 34: 2,668,696
39: 2,668,697
41: 2,668,698
121: 2,668,699
263— 3: 2,668,700
2,668,701
265— 47: 2,668,702
268— 126: 2,668,703
270— 54: 2,668,704
271— 2. 3: 2,668,705
18: 2,668,706
47: 2,668,707
49: 2,668,708
272— 58: 2,668,709
273— 33: 2,668,710
2,668,711
42: 2,668,712
43: 2,668,713
47: 2,668,714
102. 1: 2,668,715

273— 110: 2,668,716
144: 2,668,717
274— 41. 4: 2,668,718
279— 5: 2,668,719
280— 42: 2,668,721
106: 2,668,722
432: 2,668,720
515: 2,668,723
287— 20: 2,668,724
20. 5: 2,668,725
53: 2,668,726
54: 2,668,727
290— 1: 2,668,914
2: 2,668,915
38: 2,668,916
48: 2,668,917
53: 2,668,918
292— 75: 2,668,728
137: 2,668,729
336. 3: 2,668,730
294— 63: 2,668,731
75: 2,668,732
118: 2,668,733
296— 1: 2,668,734

296— 28: 2,668,735
299— 63: Re. 23,781
301— 41: 2,668,736
125: 2,668,737
305— 9: 2,668,738
307— 58: 2,668,919
308— 88: 2,668,739
89: 2,668,740
91: 2,668,741
2,668,742
179: 2,668,743
310— 67: 2,668,920
93: 2,668,921
105: 2,668,922
236: 2,668,923
239: 2,668,924
258: 2,668,925
265: 2,668,926
311— 21: 2,668,744
312— 335: 2,668,745
346: 2,668,746
313— 73: 2,668,927
198: 2,668,928
315— 40: 2,668,929

315— 52: 2,668,930
163: 2,668,931
317— 101: 2,668,932
2,668,933
137: 2,668,934
242: 2,668,935
258: 2,668,936
321— 18: 2,668,937
19: 2,668,938
36: 2,668,939
44: 2,668,940
322— 61: 2,668,941
323— 61: 2,668,942
324— 57: 2,668,943
70: 2,668,944
146: 2,668,945
333— 79: 2,668,946
336— 90: 2,668,947
339— 74: 2,668,948
194: 2,668,949

CLASSIFICATION OF DESIGNS

D 4— 3: Des. 171,468
D 7— 5: Des. 171,471
D17— 3: Des. 171,440
D18— 2: Des. 171,470
D26— 5: Des. 171,450
D33— 8: Des. 171,452
14: Des. 171,475
D34— 4: Des. 171,439

D34—15: Des. 171,458
Des. 171,460
D35— 1: Des. 171,459
D44— 1: Des. 171,434
Des. 171,444
D45— 4: Des. 171,462
Des. 171,463
10: Des. 171,455

D45—16: Des. 171,442
19: Des. 171,467
D48—20: Des. 171,435
Des. 171,445
Des. 171,446
Des. 171,447
Des. 171,448
24: Des. 171,457

D48—32: Des. 171,443
D54—13: Des. 171,469
D58—26: Des. 171,432
D63— 1: Des. 171,474
D64—11: Des. 171,456
D72— 1: Des. 171,464
D80— 9: Des. 171,441
11: Des. 171,438

D81—19: Des. 171,473
D83— 1: Des. 171,453
8: Des. 171,466
D85— 2: Des. 171,465
D86— 9: Des. 171,436
Des. 171,437
D87— 3: Des. 171,433
D90—20: Des. 171,451

D91— 2: Des. 171,472
D92— 1: Des. 171,454
21: Des. 171,461
D93— 3: Des. 171,449

U. S. GOVERNMENT PRINTING OFFICE: 0— 1954

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,521,100. Garment Drier. Patented Sept. 5, 1950. Device for drying knitted and crocheted garments so they will hold their normal shape. The drier includes a pair of hingedly connected frames to support a garment therebetween, the frames being larger than the garment. A sheet of flexible open mesh fabric is secured to each frame to provide free circulation of air through the garment. A pair of spaced pivotally attached clips on the edge of one of the frames have depending flanges to overlie the free edge of the opposite frame when in closed position. A hook is provided on one of the frames for hanging the drier from a support. May be made of plastic, wood, or noncorrosive metal. (Owner) Edith S. Sublette, 2811 28th St., Nitro, W. Va. Groups 25—99; 33—73; 34—41; 39—81; 40. Reg. No. 52,584.

Pat. 2,651,765. Hand Locking Battery Cable Clamp. Patented Sept. 8, 1953. Hand operated device for locking a cable to a battery post. A U-shape terminal having a bight portion securely attached to a cable end has a pair of circular spaced parallel legs with vertically aligned central circular openings for fitting over a battery post. A locking member has a handle and an integrally formed circular head adapted to be inserted between the legs of the terminal. The head is formed with an eccentric opening to be aligned with the openings in the legs and fitted over the battery post. The head has a serrated edge to engage serrations in the inner face of the bight. When the cable legs, with the locking head between them, have been placed over the post, the handle is turned to lock the serrations and is held by a retaining wire which passes through a hole in the end of the handle and over the cable. Modification shown. (Owner) Melvin O. Nelson, 4044 McGee St., Kansas City, Mo. Groups 35—69; 36—91. Reg. No. 52,585.

Pat. 2,614,293. Method of Making Balloons. Patented Oct. 21, 1952. Method of manufacturing meteorological balloons by the dipping process. A funnel-shaped form having an air passage is dipped into a rubber dispersion. The rubber layer coagulated at the neck of the form is tied air tight to the neck with a rubber band, the rubber layer deposited on the interior of the form is drawn out of the form, and the lowermost open end is tied air tight. Air is then introduced into the funnel through the air passage, whereby the rubber layer coagulated on the exterior of the form loosens from the form and, together with the rubber layer drawn out of the interior, forms a balloon. When the balloon has attained the desired size, a rubber stopper is placed in the mouth of the air passage. The balloon is dried, and then the form is removed and the balloon is vulcanized in the customary manner. (Owner) Vilho Vaisala. Correspondence to Michael S. Striker, 511 Fifth Ave., New York 17, N. Y. Groups 37—21; 39—98. Reg. No. 52,586.

Pat. 2,619,350. Playing Card Receiving, Holding, and Displaying Device. Patented Nov. 25, 1952. Device for receiving, releasably holding, and displaying playing cards for playing various card games conserves the space usually required for such games, and also accommodates a greater number of players than usual with the same number of cards. In one embodiment of the invention, the device consists of a plurality of spaced parallel card holders disposed between end members which divide the top of the device into longitudinal slots for the insertion of the playing cards in vertical position. Guides attached to the top of each card holder in spaced parallel transverse arrangement provide a means for overlapping the cards in spaced transverse rows when inserted in the slots so as to conserve space. A roller on the back of each card holder aids in releasably retaining the cards upright in the slots. Provision is made in the front of the device at the bottom for the releasable insertion of face-down cards dealt to the players. Instructions for using the device for playing various card games, and also new card games, are given in the patent. (Owner) John J. Hickey, 11 Prospect St., Belleville, N. J. Group 39—41. Reg. No. 52,587.

Pat. 2,647,416. Flexible Drive Transmission for Motor Vehicles. Patented Aug. 4, 1953. Automatic transmission for driving the front wheels of an automotive vehicle for propelling the vehicle may also be coupled to the rear wheels to simultaneously drive the rear wheels. A pair of rotary self-lubricated flexible shafts are driven by a pair of spaced power take-off shafts of the transmission to drive the front wheels. A similar pair of flexible shafts may be connected to the power take-off shafts to drive the rear wheels. The motor shaft of the vehicle extends through a tubular shaft and is gear connected to a countershaft. A sprocket chain drive is provided between the tubular shaft and one of the power take-off shafts, and a similar sprocket chain drive is provided between the countershaft and the other power take-off shaft. A flexible motive fluid drive is provided at the rear end of the motor shaft for coupling the motor shaft and the tubular shaft. (Co-owner) A. P. Turner, Box 283, New Braunfels, Tex. Groups 35—66; 38—31. Reg. No. 52,588.

Pat. 2,527,738. Dolly Attachment for Hammerheads. Patented Oct. 31, 1950. Arched metal attachment for hammerheads is secured thereto by a pair of triangular plates to make it possible to extract extra long nails by using only one hand, leaving the other hand free to hold the workman in safety. The attachment includes an arcuate dolly having one end terminating in a rounded traction extremity adapted to abut the outer convex working face of the hammer claws. The other end of the dolly has a concave recess to fit the nose of the hammerhead. The outer curved surface of the dolly is a true arc and provides the desired rolling action for the hammer, which, in addition to blocking up the hammer, also greatly facilitates the extraction of stubborn nails. (Owner) Charles Kirk, 388 Seymour St., Winnipeg, Manitoba, Canada. Group 33—52. Reg. No. 52,589.

Pat. 2,398,978. Strainer. Patented Apr. 23, 1946. Pouring strainer is easily attached over the openings of different sized open-top containers of the type having an external surrounding flange. The strainer consists of two similar perforated metal sheets disposed in a partly overlapping relationship, with downwardly and inwardly turned flanges around the outside to embrace the external flange of a container opening. On opposite edges of one of the overlapping sheets are slotted guides, to receive the complemental margins of the other sheet and allow a tongue on each edge to slide in its respective slot for limiting the relative sliding movement of the sheets. The sheets are held together also by a pin and slot connection in the center, and a spring common to both sheets retains them normally overlapped to the fullest extent permitted by the slots. (Owner) Philip J. Udell, 2164.2 Haviland Ave., Hayward, Calif. Group 34—41—99. Reg. No. 52,590.

Pat. 2,437,225. Electric Current Interrupter. Patented Mar. 2, 1948. Current-interrupting device is arranged to be free of arcing and the consequent oxidation of contacting surfaces. The device comprises a stator and a rotor revolving therein, both of electrically insulating material, with an interspace between them which is filled with liquid metal. Insulating vanes are slidably attached to the rotor in tight engagement with the stator so that as the rotor revolves they interrupt the electrical continuity of the liquid metal except when passing over spaced recesses in the stator case in which are outside electrodes. Important features of the invention are: Filling of the entire interspace with liquid metal so that the interruption occurs between electrodes of liquid metal in the absence of any gas space where arcing could occur; and the use of very low specific gravity potassium-sodium alloy or any alkali metal alloy normally liquid at room temperature, making possible a lighter construction or faster operation than would be possible by the use of much heavier metals such as mercury. Modifications claimed. (Owner) Johan Bjorksten, Bjorksten Research Laboratories, 323 West Gorham St., Madison 3, Wis. Group 36—19. Reg. No. 52,591.

Pat. 2,647,195. Sleeper Toy. Patented July 28, 1953. Reg. No. 52,592.

Des. 169,927. Design for an Animal Figure Toy. Patented June 30, 1953. (Term of patent 14 years.) Reg. No. 52,593.

A stuffed doll or animal, provided with a heating pad and with eyes that light up, serves as a sleeping companion for a child, to furnish warmth and a feeling of security in the dark. Behind each transparent eye in the head of the stuffed doll or animal is a very small electric light bulb and socket. A heating pad is detachably fastened by snaps on the inner side of the casing covering the front section of the body. A compartment with a zippered opening is provided within the casing to contain a source of electric current for the light bulbs and heating pad, connected by a cable to a plug-in socket. For daytime playing, the cable may be coiled and zipped in the compartment. If desired, a dry cell battery could be used for the eyes, and a chemical-reaction device for the heating pad. (Owner) Neva Iola Broyles, 43-D-Victory Village, Henderson, Nev. Group 39—42.

Pat. 2,532,952. Work Holder Supported and Clamped Between Vise Jaws. Patented Dec. 5, 1950. The structure of this invention consists of a work holder insertable in a clamping vise for supporting an article at a selected inclined or tilted position so that the article may be conveniently shaped by a file or like instrument. The work holder includes a pair of clamping jaws which are quickly and readily spreadable for placing an article between them, and a pivoted supporting member which may be selectively rotated to produce a desired angle or inclination of a piece of work supported between the jaws. The work holder may be placed between vise jaws and the pressure on the same will be equalized by the tightening of the vise jaws. (Owner) Carl M. Schmitt, 1044 North Yale Ave., Villa Park, Ill. Groups 33—52; 35—43. Reg. No. 52,594.

Pat. 2,645,963. Work Holder Supported and Clamped Between Vise Jaws. Patented July 21, 1953. The instant invention is an improvement over the features of Patent 2,532,952, and consists of a work holder supported and clamped between vise jaws including a pair of work holding cooperative jaw members, rendering the work holder capable of grasping irregularly shaped articles even though the surfaces of the article to be held are in non-parallel planes. A pair of pivotally connected shanks are spring urged apart, each of the shanks supporting a rotatable gripping element, one of the gripping elements being rotatable about an axis coaxial with one shank and the other gripping element being rotated about an axis transversely of the other shank and perpendicular to the axis of rotation for the other gripping element. Thus a work holder of compact, simplified construction is provided that is adapted to be supported and clamped between vise jaws. The inventor states that the work holder may be economically manufactured in quantity production. (Owner) Carl M. Schmitt, 1044 North Yale Ave., Villa Park, Ill. Groups 33—52; 35—43. Reg. No. 52,595.

Pat. 2,636,418. Rear Vision Mirror Support for Tractors. Patented Apr. 28, 1953. Rear vision mirror device for use on farm machinery, especially tractors, includes a clamping member to be secured to the hood of a machine. A horizontal bar having a slot therein and rack teeth along its edge is fixed to the clamping member and extends transversely of the hood. A movable block supported on the bar has a projection thereon to engage in the slot and guide the block along the bar. A spring biased clamp is carried by the block to engage the rack for locking the block at a selected place along the bar. The block has a horizontal aperture in which a rod supporting a mirror is pivotally mounted, whereby rotation of the rod by a hand knob will regulate the vertical inclination of the mirror. (Owner) Perry Leonard, Effingham, Kans. Group 38—11. Reg. No. 52,596.

Pat. 2,441,999. Adjustable Sectional Boat. Patented May 25, 1948. Small sectional outboard motor boat is adjustable to varying load and speed and may be easily transported in sections. The boat is constructed in independent water-tight sections slidably coupled together in tandem, in slightly spaced apart relation, with mechanical means for vertical adjustment at any time in the relative planes of the bottoms of the sections to form steps. Except for the bow section, each section has both ends closed by plywood bulkheads shaped to avoid sharp corners, and has a keel and a sheet aluminum wrapper. Carefully protected junctures of wrapper and bulkheads are designed to be water-tight and rigid. The coupling of sections is effected by vertically adjustable coacting elements carried by adjacent ends of adjacent sections. By means of a handwheel on a vertically threaded rod at each intersection an operator may offset the planes of adjacent sections, forming a step for more effective "planing" in high speed, or may return them to the same plane for moderate speed with a heavy load. (Owner) Frank L. Fulke, P. O. Box 11, Terre Haute, Ind. Group 37—32. Reg. No. 52,597.

Pat. 2,487,232. Lubricated Mining Machine Chain. Patented Nov. 8, 1949. Coal-cutting chain having lubricant-carrying links and bit-carrying links permits any lubricant-carrying link to be readily connected to and disconnected from the chain at the machine with which the chain is associated without the use of special tools. Each lubricant-carrying link, which swivels on fixed journal pins carried by spaced parallel arms of an adjacent pair of bit-carrying links, has a lubricant chamber in one side to hold a supply of solid fibrous lubricating grease at the non-pulling sides of the journal pins. A steel plate for closing the chamber serves the triple purpose of sealing in the lubricant, sealing out coal dust, and securely locking the links together against displacement of any part of the chain. A free metallic ball in the lubricant chamber moves about during coal cutting operations to displace the lubricant so that successive increments of the lubricant will be impelled against the non-pulling sides of the journal pins and be whipped around the pins by swiveling action of the joints. (Owner) Frank L. Fulke, P. O. Box 11, Terre Haute, Ind. Groups 33—23; 35—31—33. Reg. No. 52,598.

Pat. 2,541,157. Chain Joint. Patented Feb. 13, 1951. Joint for detachably coupling adjacent links of coal-cutting chains, or similarly guided trenching or conveying chains, permits the links to be readily coupled and uncoupled at the machine with which the chain is associated without the use of special tools. A journal pin on which a connected link swivels extends through aligned apertures in a pair of spaced parallel arms of an adjacent link. The journal pin at one end is provided with an enlarged head and is axially bored and transversely slotted to receive a locking bar only in arched form. The bar is straightened after insertion to cause the ends to enter indentations in one of the arms of the adjacent link to lock the journal pin in operative non-rotatable position and also lock the pin against axial movement in one direction. The head of the pin seats in a countersink in the same arm to prevent axial movement of the journal pin in the opposite direction. The locking bar is made of bendable metal so that it may be readily deformed into an arch to reduce its effective length and permit its entry or removal from locking position. Modifications shown. (Owner) Frank L. Fulke, P. O. Box 11, Terre Haute, Ind. Groups 33—23; 35—31—33. Reg. No. 52,599.

Pat. 2,309,381. Gate. Patented Jan. 26, 1943. Gate, suitable for lanes of toll roads and bridges or watchman's station of a private road, may be supported on a stationary post at side of single lane or in opposing pairs on an island post between two lanes. A projecting tapered gate arm is mounted on the post, for horizontal swinging, by means of a spindle which rotates in coaxial vertically disposed bearings of upper and lower lateral brackets. The heel of the gate is connected to the spindle by a bolt passing horizontally through the spindle near the upper bracket and through ears on an upper heel plate of the arm, and is arranged for limited vertical angular pivoting about the bolt. Projecting downward from the arm is a latch bar which engages notches in a horizontal circular arc plate of the lower bracket. To open the gate, the operator lifts the outer end of the arm to free the latch bar from its notch, and swings the gate horizontally to open position. The latch bar is then dropped into the outer notch, where it is held by limiting stops, and the gate is latched by its own weight. The gate may be closed in the same manner. (Owner) Clinton B. Brown, executor of the estate of Thomas E. Brown, 115 East 89th St., New York 28, N. Y. Group 33—81. Reg. No. 52,600.

Pat. 2,125,887. Pressure Indicator for Clothes Wringers. Patented Aug. 9, 1938. Device for indicating and varying pressure needed on the rollers of a wringer for wringing different kinds of materials. In the usual arrangement of a lower fixed roller and an upper roller in vertically slidable bearings, means for applying pressure on the upper roller comprise a self-contained unit extending through an opening in an arched part of the frame and engaging a leaf spring, the outer ends of which bear on the slidable bearings. The unit includes a threaded screw, a hand wheel on the upper end of the screw, a relatively non-rotatable pressure-delivering member extensibly carried by the opposite end of the screw, and an interposed pressure spring for transferring thrust. The hand wheel carries a horizontal dial with sectors marked silk, cotton, etc., and an indicating pointer which rotates on movement of the pressure-transmitting means. The wheel and pointer may be manually set, and movement of the pointer viewed through a glass cover for further adjustment as clothes are put through the wringer. (Owner) Edwin S. Cook, 4094 Leimert Blvd., Los Angeles, Calif. Group 35—81—82. Reg. No. 52,601.

TRADE-MARKS

OFFICIAL GAZETTE, FEBRUARY 9, 1954

[VOL. 679. NO. 2]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 636,643. Kleinwanzlebener Saatzucht Vorm. Rabbethge & Giesecke Aktiengesellschaft, Einbeck, Hannover, Germany. Filed Oct. 15, 1952.

POLYBEET

Applicant claims ownership of German Registration No. 621,896, dated June 11, 1952.

For Agricultural Seed—Namely, Sugar Beet Seed.

Ser. No. 637,390. Nelson Tanning Corporation, San Antonio, Tex. Filed Oct. 30, 1952. (Sec. 2f.)

Nelson☆

For Sheepskin, Plasticized Furs and Plasticized Lambskin Shearlings, Sold in the Piece.

Claims use since Oct. 31, 1946.

Ser. No. 644,246. Missouri Farmers Association, Inc., Columbia, Mo. Filed Mar. 26, 1953. Collective Mark.

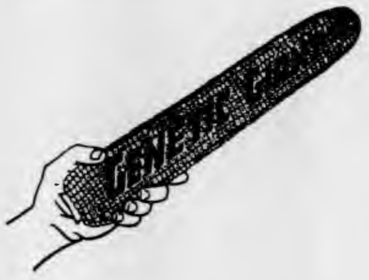


The drawing is lined for red and blue.

For Vegetable Seeds, Lawn Seeds, and Field Crop Seeds.

Claims use since Nov. 1, 1929.

Ser. No. 644,694. Steckley Hybrid Corn Company, Lincoln, Nebr. Filed Apr. 3, 1953.



The word "Giant," and the pictorial representation of an ear of corn are disclaimed apart from the mark shown.

For Hybrid Seed Corn.

Claims use since Mar. 3, 1953.

Ser. No. 647,269. Deutsche Torfhandelsgesellschaft, Bremen, Germany. Filed May 19, 1953.



No claim is made to the words "Garden" and "Peat" apart from the mark as shown.

For Peat Moss, Poultry Litter.

Claims use since Feb. 28, 1953.

Ser. No. 648,678. John H. Ludwig, doing business under the name of Ludwig Acres Chinchilla Ranch, Mohnton, Pa. Filed June 12, 1953.

Silver Mist

For Chinchilla Pelts and Live Chinchillas.

Claims use since on or about May 15, 1953.

CLASS 2

RECEPTACLES

Ser. No. 519,654. Greyvan Lines, Inc., Chicago, Ill. Original filed act of 1905, Mar. 27, 1947; amended to application under act of 1946, Principal Register, Feb. 7, 1948.

GREYVAN Lines

For Boxes and Containers for Use in Moving—Namely, Corrugated Cartons, Fibre Board Wood-Re-Inforced Wardrobe Containers, and Barrels.
Claims use since Dec. 5, 1933.

Ser. No. 581,374. Sears, Roebuck and Co., Chicago, Ill. Filed June 30, 1949. (Sec. 2f.)

J.C.Higgins

The consent of J. C. Higgins is of record.
For Vacuum Picnic Jugs, Vacuum Bottles, Lunch Kits (Lunch Box With Contained Vacuum Bottle).
Claims use since Apr. 1, 1946.

Ser. No. 613,797. American Hard Rubber Company, Hempstead and New York, N. Y. Filed May 12, 1951.

ACE-HIDE

Applicant claims ownership of Registrations Nos. 274,084 and 277,277.
For Pail for Containing Acids Made of an Elastomer or a Mixture of Such Elastomer and a Resinous Copolymer.
Claims use since July 30, 1948.

Ser. No. 624,923. Arkell and Smiths, Canajoharie, N. Y. Filed Feb. 14, 1952.

AS WIND-O-PAK

No claim is made to the words "Wind-O-Pak" or to the representation of the goods apart from the mark shown in the drawing.
For Paper Bags.
Claims use since Jan. 4, 1952.

Ser. No. 629,242. Gordon Cartons, Inc., Baltimore, Md. Filed May 6, 1952.

NEUTROTEX

Applicant claims ownership of Registration No. 530,667.
For Paper Cartons.
Claims use since June 4, 1951.

Ser. No. 631,795. Fulton Bag and Cotton Mills, Atlanta, Ga. Filed June 26, 1952.



The name "Fulton," and the words "Rodent Repellent Treated Bags" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 305,415.
For Cotton and Burlap Bags.
Claims use since May 1, 1952.

Ser. No. 631,797. Fulton Bag and Cotton Mills, Atlanta, Ga. Filed June 26, 1952.

RATSCAT

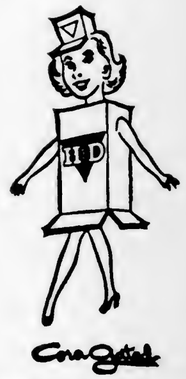
Applicant claims ownership of Registration No. 305,415.
For Cotton and Burlap Bags.
Claims use since May 1, 1952.

Ser. No. 635,678. Better Packages, Incorporated, Shelton, Conn. Filed Sept. 24, 1952.

SIMPLEX

For Tape Dispensers for Serving Adhesive Tape, Sold Empty.
Claims use since in or about the year 1934.

Ser. No. 642,639. The Hinde & Dauch Paper Company, Sandusky, Ohio. Filed Feb. 24, 1953.



No claim is made to the pictorial representation of the goods apart from the picture of which said representation forms a part. No claim is made to the words "Cora Gated" shown on the drawing in so far as they are the phonetic equivalent of the word "corrugated." Applicant claims ownership of Registrations Nos. 102,879, 130,185, 216,539, and 400,718.
For Paperboard Boxes and Cartons.
Claims use since Feb. 12, 1953.

Ser. No. 645,749. The Union Metal Manufacturing Company, Canton, Ohio. Filed Apr. 22, 1953.

WORK-(UNION METAL)-MATIC

For Drop Bottom Materials Handling Stacking Boxes.
Claims use since Apr. 1, 1952.

Ser. No. 646,806. River Raisin Paper Company, Monroe, Mich. Filed May 11, 1953.

EXACTOBOARD

For Corrugated and Solid Fibre Shipping Cases and Cartons.
Claims use since Apr. 7, 1953.

Ser. No. 647,469. Elizabeth Arden Sales Corporation, New York, N. Y. Filed May 22, 1953.

Puff·Puff

For Compressible, Dispensing Bottles of Synthetic Plastic Materials Used for Dispensing Powders.
Claims use since Apr. 28, 1953.

Ser. No. 647,892. Rex A. Stone, doing business as Packageers Co., Chicago, Ill. Filed May 28, 1953.

POLY-TAINERS

For Plastic Bags.
Claims use since July 30, 1952.

Ser. No. 650,076. Vault Company of America, Davenport, Iowa. Filed July 9, 1953.

Vaulcoa

For Burial Vaults.
Claims use since June 22, 1953.

Ser. No. 651,448. General Metalware Company, Minneapolis, Minn. Filed Aug. 6, 1953.

MY LADY'S CHOICE

For Metal Pail.
Claims use since February 1950.

Ser. No. 651,698. Harry T. Epstein, doing business as Proven Paper Manufacturing Company, Boston, Mass. Filed Aug. 12, 1953.

Proven

For Paper Butter Plates.
Claims use since Dec. 21, 1949.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 636,258. C. N. Stein, doing business as Ozark Leather Company, Waco, Tex. Filed Oct. 6, 1952.

SADDLE King

The word "Saddle" is disclaimed apart from the mark as shown.
For Saddles, Bridles, Martingales, Breast Collars, Tapaderos, and Suitcases.
Claims use since on or about July 31, 1942.

Ser. No. 636,658. St. Thomas Inc., Gloversville, N. Y. Filed Oct. 15, 1952.

TINYFOLD

For Pocket Case for Paper Currency.
Claims use since Apr. 1, 1952.

Ser. No. 636,866. Whiting & Davis Company, Plainville, Mass. Filed Oct. 18, 1952.

MESH-MATES

The word "Mesh" is disclaimed apart from the mark as shown.
For Handbag Accessories—Namely, Wallets, Billfolds, and Coin Purses Made Partly or Wholly of Mesh.
Claims use since Oct. 6, 1952.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 641,237. Siegel & Co., Koln-Braunsfeld, Germany. Filed Dec. 19, 1952.

BRISOLO

Applicant claims ownership of German Registration No. 343,947, dated Nov. 24, 1925; and United States Registration No. 227,320.
For Polishes, Including Creams for Footwear and Shoes; Shoe Blacking, and Preparations for Cleaning and Polishing Metals.

Ser. No. 646,178. Twinkle Polish Corporation, Brooklyn, N. Y., assignor to The Drackett Company, Cincinnati, Ohio, a corporation of Ohio. Filed Apr. 29, 1953.

Twinkle

Applicant claims ownership of Registration No. 186,259.
For Metal and Glass Polish.
Claims use since July 2, 1923.

Ser. No. 646,260. Behr-Manning Corporation, Troy, N. Y. Filed May 1, 1953. (Sec. 2f.)

TUFBAK

Applicant claims ownership of Registration No. 574,464.
For Flexible and Inflexible Abrasives.
Claims use since January 1934.

CLASS 5

ADHESIVES

Ser. No. 635,187. Gilbert L. Lewis, doing business as Protexall Permanent Process Service, Kansas City, Mo. Filed Sept. 12, 1952.

CELLUSOL LAMINATING SOLVENT

The words "Laminating Solvent" are disclaimed apart from the mark as shown.
For Solvent-Type Adhesive for Use in Laminating Plastic Sheet Materials.
Claims use since July 23, 1952.

Ser. No. 647,069. General Gummed Products, Inc., Richmond Hill, N. Y. Filed May 15, 1953.

RIPABOX

For Gummed Paper Tape and Gummed Cloth Tape for General Use.
Claims use since Mar. 16, 1953.

Ser. No. 647,070. General Gummed Products, Inc., Richmond Hill, N. Y. Filed May 15, 1953.

RIPAPAK

For Gummed Paper Tape and Gummed Cloth Tape for General Use.
Claims use since Mar. 16, 1953.

Ser. No. 647,071. General Gummed Products, Inc., Richmond Hill, N. Y. Filed May 15, 1953.

RIPATAPE

For Gummed Paper Tape and Gummed Cloth Tape for General Use.
Claims use since Mar. 16, 1953.

Ser. No. 648,032. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed June 1, 1953.



The drawing is lined for red, green, and black. The diagonal lines bisecting the green and black squares are white. The diagonal lines bisecting the red and black squares are green. Applicant claims ownership of Registrations Nos. 561,631, 558,476, and others.
For Rubber Adhesive.
Claims use since at least as early as December 15, 1952.

Ser. No. 649,485. The Crowell Corporation, Yorklyn, Del. Filed June 29, 1953.

RIB-M-BOS

For Gummed Tape.
Claims use since on or about May 28, 1953.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 613,620. M. E. Wallace Company, Sunbury, Pa. Filed May 7, 1951. (Sec. 2f.)

CARBON FILLER OXIDE

For Chemical Compound Adapted for Use as a Bodying Agent, Binder, Abrasive Resistant, Surface Finishing Aid, or Parting Compound.
Claims use since February 1937.

Ser. No. 616,362. Chemagro Corporation, New York, N. Y. Filed July 12, 1951.

MYCON

For Agricultural Bactericides and Fungicides.
Claims use since June 11, 1951.

Ser. No. 633,930. Ferris Corp., New York, N. Y. Filed Aug. 14, 1952.

Sani Safe

Apart from the combination "Sani Safe," the word "Safe" is disclaimed.
For Liquid Chemical Compound Used as an Industrial Germicide and Disinfectant.
Claims use since June 16, 1952.

Ser. No. 635,128. Fade-Proof Corporation of America, Chicago, Ill. Filed Sept. 11, 1952.

GlareX

For Chemical Solution Adapted To Be Sprayed or Otherwise Applied to the Windshields and/or Windows of Automobiles, Trucks, and Other Vehicles to Reduce Glare and to Screen the Heat Rays of the Sun.
Claims use since July 18, 1952.

Ser. No. 635,277. Harry Richard Sims, St. Louis, Mo. Filed Sept. 15, 1952.

STA-FLOTE

For Line Dressing.
Claims use since Apr. 21, 1952.

Ser. No. 637,557. Howard Wong, doing business as European Coast Chemical House, New York, N. Y. Filed Nov. 3, 1952.



For Potassium Carbonate and Phenolphthalein.
Claims use since Sept. 17, 1951.

Ser. No. 642,423. S-K-O Corporation, Buffalo, N. Y. Filed Feb. 18, 1953.

S-K-O

For Sterilizing Solution Which May Also Be Used as a Bleach, Household Germicide, Disinfectant, Deodorant for Industrial Use.
Claims use since about Sept. 3, 1932.

Ser. No. 642,590. American Cyanamid Company, New York, N. Y. Filed Feb. 24, 1953.

CYRON

For Paper Size.
Claims use since Dec. 20, 1952.

Ser. No. 642,703. Spencer Chemical Company, Kansas City, Mo. Filed Feb. 24, 1953.

HO-NO-MO



The slogan "Raises the Devil With Weeds" is disclaimed apart from the mark shown in the drawing.
For Weed Killer.
Claims use since Feb. 7, 1953, as to the mark shown; and since Oct. 30, 1952, as to the term "Ho-No-Mo."

Ser. No. 643,022. American Chemical Paint Company, Ambler, Pa. Filed Mar. 3, 1953.

TrimTone

For Chemical Preparations in Solid or Liquid Form Useful for the Suppression or Retardation of Plant Growth.
Claims use since Feb. 23, 1953.

Ser. No. 643,723. S. S. I. Co., West Palm Beach, Fla. Filed Mar. 16, 1953.

PIDD

For Preparation for Removing Odors and for Preventing Mildew and Mold.
Claims use since Dec. 18, 1952.

Ser. No. 644,485. American Cyanamid Company, New York, N. Y. Filed Mar. 31, 1953.

MELOSTRENGTH

For Synthetic Resin.
Claims use since Feb. 3, 1953.

Ser. No. 644,817. Aceto Chemical Company, Inc., New York, N. Y. Filed Apr. 3, 1953.

CERAMOL

For Emulsifying Wax.
Claims use since July 1, 1952.

Ser. No. 645,162. Larvacide Products, Inc., New York, N. Y. Filed Apr. 13, 1953.

NEMEX

For Soil Fumigants.
Claims use since on or about Mar. 31, 1953.

Ser. No. 646,248. Witco Chemical Company, Chicago, Ill. Filed Apr. 30, 1953.

DISPERSO

For Water Wettable or Water Dispersible Stearates.
Claims use since during or about Jan. 19, 1951.

Ser. No. 646,928. The C. B. Dolge Company, Westport, Conn. Filed May 13, 1953.

GERASPRAY

For Household Deodorant With a Geranium-Like Fragrance.
Claims use since 1934.

Ser. No. 647,050. T. & R. Products, Saginaw, Mich. Filed May 14, 1953.

No-Mel

For Compound to Resist Metal Accumulation on All Types of Casting Machine Molds.
Claims use since Apr. 1, 1953.

Ser. No. 648,039. Pfister Chemical Works, Inc., Ridgefield, N. J. Filed June 1, 1953.

CaFeMag

For Sequestering Agents—Namely, Chemicals in Liquid or Powder Form for the Chelation of Cations in Aqueous Solutions.
Claims use since May 11, 1953.

Ser. No. 648,250. Koppers Company, Inc., Pittsburgh, Pa. Filed June 4, 1953.

KTPL

For Synthetic Resin.
Claims use since July 10, 1952.

Ser. No. 648,442. Ultra Chemical Works, Inc., Paterson, N. J. Filed June 8, 1953. Applicant claims ownership of Registration No. 384,258.

SULFRAMIN AB

For Wetting Agents.
Claims use since Mar. 28, 1947.

Ser. No. 648,491. Imperial Paper and Color Corporation, Glens Falls, N. Y. Filed June 9, 1953.

MONARCHROME

For Chemical Pigment Colors.
Claims use since Aug. 28, 1952.

Ser. No. 648,773. Motomco, Inc., New York, N. Y. Filed June 15, 1953.



The words "Chemical Specialties" and "Inc." are herewith disclaimed apart from the mark as shown.
For Insecticides and Rodenticides in Liquid and Solid Form and Plastic Pellets Having Water Soluble Insecticide and Rodenticide Material Deposited on the Surface Thereof.
Claims use since Apr. 28, 1953.

Ser. No. 649,430. Magnet Cove Barium Corporation, Bellaire, Tex. Filed June 26, 1953.

ALKATAN

For Reacted Caustic Soda and Quebracho Product Used for Conditioning and Treating Drilling Muds.
Claims use since Aug. 4, 1952.

Ser. No. 649,432. Magnet Cove Barium Corporation, Bellaire, Tex. Filed June 26, 1953.

QX

For Quebracho Compound Comprising a Blend of Quebracho and Lignitic Shale for Use in Treating and Conditioning Drilling Muds.
Claims use since May 1, 1953.

Ser. No. 649,487. Dexter Chemical Corporation, New York, N. Y. Filed June 29, 1953.

LEKTROSTAT

For Surface Active Agents, Radioactive Compounds and Polyhydric Alcohols for Application to Textiles, Paper, Plastics, and Rubber.
Claims use since July 31, 1951.

Ser. No. 649,692. The Dow Chemical Company, Midland, Mich. Filed July 2, 1953.

TRU-PERM

For Permanent-Type Antifreeze Composition.
Claims use since June 15, 1953.

Ser. No. 649,709. Hooker Electrochemical Company, Niagara Falls, N. Y. Filed July 2, 1953.

HET

Applicant claims ownership of Registration No. 434,060.
For 1,4,5,6,7,7-Hexachlorobicyclo-(2.2.1)-Heptene-2,3,-Dicarboxylic Acid and Anhydride, Also Known as Hexachloroendomethylenetetrahydrophthalic Acid and Anhydride, Also Known as Chlorendic Acid and Anhydride.
Claims use since Nov. 26, 1952.

Ser. No. 649,741. The Tremco Manufacturing Company, Cleveland, Ohio. Filed July 2, 1953.

Cretemix

For Liquid Which Is Added to the Water Used in Mixing Concrete, to Thereby Harden and Strengthen the Concrete, to Accelerate the Setting Thereof, and to Lower the Freezing Point of the Concrete.
Claims use since Mar. 27, 1929.

Ser. No. 649,765. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Filed July 3, 1953.

ORTHOGAM

Applicant claims ownership of Registrations Nos. 121,042, 423,264, and others.
For Insecticides and Fungicides.
Claims use since May 18, 1953.

Ser. No. 649,853. Warren Petroleum Corporation, Tulsa, Okla. Filed July 3, 1953.

WARRENGAS

For Liquified Petroleum Gas.
Claims use since May 3, 1953.

Ser. No. 649,961. David J. Rolfs, doing business as Dida Company, Barton, Wis. Filed July 7, 1953.

Repel-ette

For Chemical Insect Repelling Preparation.
Claims use since Jan. 2, 1953.

Ser. No. 650,047. General Aniline & Film Corporation, New York, N. Y. Filed July 9, 1953.

POLECTRON

Applicant claims ownership of Registration No. 403,282.
For Polymerizable Organic Chemical Compounds and Compositions for Use in the Preparation of Artificial Resin Polymers.
Claims use since October 1942.

Ser. No. 650,098. Emery Industries, Inc., Cincinnati, Ohio. Filed July 10, 1953.

Style Set

For Sizing Material for Silk and Cotton Fabrics.
Claims use since Jan. 15, 1951.

Ser. No. 650,115. Nuodex Products Co., Inc., Elizabeth, N. J. Filed July 10, 1953.

100 V.T.

For Mildewproofing Agent.
Claims use since June 9, 1953.

Ser. No. 650,258. Kembe Products, St. Petersburg, Fla. Filed July 14, 1953.

KEMBE

For Chemical Bleaching Tablets.
Claims use since July 1, 1953.

CLASS 7

CORDAGE

Ser. No. 643,339. Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Filed Mar. 9, 1953.



The applicant disclaims the words "Wire Rope," "Steel," "Superior Strength With Flexibility," and the representation of wire rope apart from the mark as shown. The drawing is lined for shading purposes only.
For Wire Rope.
Claims use since Jan. 2, 1953.

Ser. No. 648,681. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed June 12, 1953.

Beauty Matched

For Decorative Ribbon, Made of Plastic Fibers, for Wrapping, Tying, Trimming, and/or Ornamenting Packages and Displays.
Claims use since at least as early as May 26, 1953.

Ser. No. 648,682. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed June 12, 1953.

Magic Bow

For Decorative Ribbon, Made of Plastic Fibers, for Wrapping, Tying, Trimming, and/or Ornamenting Packages and Displays.
Claims use since at least as early as May 26, 1953.

Ser. No. 649,571. Cuban Cordage & Rope Co., S. A., Guanajay Cabanas, Cuba. Filed June 30, 1953.



For Baler Twine.
Claims use since November 1951; and use in commerce between the United States and Cuba since November 1951.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 635,264. Herter's, Inc., Waseca, Minn. Filed Sept. 15, 1952.

VARI-CHOKE

The term "Choke" is disclaimed apart from the whole trade-mark shown.
For Chokes for Shotguns.
Claims use since September 1950.

Ser. No. 651,937. Olin Industries, Inc., New Haven, Conn. Filed Aug. 17, 1953.

WRA

Applicant claims ownership of Registrations Nos. 36,424 and 47,352.
For Ammunition.
Claims use since 1934.

CLASS 10

FERTILIZERS

Ser. No. 637,551. Smith-Douglass Company, Incorporated, Norfolk, Va. Filed Nov. 3, 1952.

PELLEFORM

For Fertilizers and Soil Conditioning Materials.
Claims use since on or about Aug. 1, 1952.

Ser. No. 637,938. Oklahoma Fertilizer & Chemical Co., Oklahoma City, Okla. Filed Nov. 12, 1952.



No exclusive claim is made to the names of the States, their respective outlines, and the words "Let's Grow America" apart from the mark as shown on the drawing.
For Fertilizers.
Claims use since Aug. 1, 1952.

Ser. No. 642,599. Armour and Company, doing business under the trade style Armour Fertilizer Works, Chicago, Ill. Filed Feb. 24, 1953.



For Fertilizers.
Claims use since Nov. 1, 1952.

Ser. No. 645,889. Robert J. Fouts, doing business under the firm name and style of Mohora Products, Calistoga, Calif. Filed Apr. 24, 1953.

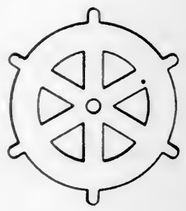
GREEN GODDESS

No claim is made to the word "Green" apart from the mark.
For Potting Mixture for Growing Plants in Flats and Pots and a Fertilizer.
Claims use since Mar. 15, 1952.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 580,255. Nichols-Detroit, Detroit, Mich. Filed June 10, 1949.



For Ink Plates and Ink Therefor, Such Ink Plates Being Ink-Containing Pad-Like Devices for Inking Rubber Stamps or the Like or for Taking Finger-Print Impressions.
Claims use since Dec. 27, 1948.

Ser. No. 640,238. Sun Chemical Corporation, New York and Long Island City, N. Y. Filed Dec. 31, 1952.

FLEXOGLOSS

For Printing Ink for Use in Flexographic Printing.
Claims use since Nov. 6, 1952.

Ser. No. 640,239. Sun Chemical Corporation, New York and Long Island City, N. Y. Filed Dec. 31, 1952.

FLEXOSHEEN

For Printing Ink for Use in Flexographic Printing.
Claims use since Nov. 6, 1952.

Ser. No. 640,240. Sun Chemical Corporation, New York and Long Island City, N. Y. Filed Dec. 31, 1952.

FLEXOFINE

For Printing Ink for Use in Flexographic Printing.
Claims use since Nov. 6, 1952.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 613,002. Globe Siding Products Company, Whiting, Ind. Filed Apr. 23, 1951.

ThermoWOOD

The word "Wood" is disclaimed apart from the mark as shown.
For Mineral-Surfaced Asphalt Saturated Felt Shingles for Roofing and Siding.
Claims use since Aug. 16, 1949.

Ser. No. 636,716. Klemp Metal Grating Corporation, Chicago, Ill. Filed Oct. 16, 1952.

HEXTEEL

For Steel Metal Gratings, Steel Flooring, and Steel Reinforcement Meshes.
Claims use since July 1933.

Ser. No. 640,582. Sapolin Paints Inc., New York, N. Y. Filed Jan. 9, 1953.

STOP GAP

For Plastic Rubber Caulking Compound.
Claims use since Dec. 23, 1952.

Ser. No. 641,366. The Babcock & Wilcox Company, New York, N. Y. Filed Jan. 27, 1953.

KAOWOOL

Applicant claims ownership of Registration No. 437,188.
For Filamented Refractory Clay.
Claims use since on or about Oct. 2, 1952.

Ser. No. 641,609. Douglas Fir Plywood Association, Tacoma, Wash. Filed Feb. 2, 1953. COLLECTIVE MARK.

PLYSCORD

The word "Ply" is disclaimed separate and apart from the mark as shown. Applicant claims ownership of Registration No. 362,808.
For Plywood.
Claims use since June 3, 1938.

Ser. No. 642,711. Thermo Window Co. Inc., Shrewsbury, Mass. Filed Feb. 24, 1953.



For Convertible Storm and Screen Sash.
Claims use since August 1951.

Ser. No. 642,924. Adjus To Crete, Modesto, Calif. Filed Mar. 2, 1953.



The representation of the goods is disclaimed apart from the mark as shown.
For Concrete Deck and Wall Cans or Forms Used to Produce Blind-End Utility Holes in Poured Concrete Slabs.
Claims use since Feb. 3, 1953.

Ser. No. 644,380. Anchor-Bilt Products, Inc., Brooklyn, N. Y. Filed Mar. 30, 1953.

Beauti-Trim

No claim is made to the word "Trim" apart from the mark as shown.
For Scalloped, Carved, and Decorative Lumber and Scalloped, Carved, and Decorative Plywood, Used as Moulding, Trim, and Edging.
Claims use since Oct. 15, 1952.

Ser. No. 645,009. The Ruberoid Co., Bound Brook, N. J., and New York, N. Y. Filed Apr. 9, 1953. (Sec. 2f.)

LOK-TITE

For Asphalt Shingles.
Claims use since March 1933.

Ser. No. 645,583. National Gypsum Company, Buffalo, N. Y. Filed Apr. 20, 1953.

ACOUSTAMATIC

Applicant claims ownership of Registration No. 381,801.
For Perforated Insulation Board With Acoustical Properties.
Claims use since Jan. 5, 1953.

Ser. No. 646,413. Hugh C. Marshall Co., Santa Ana, Calif. Filed May 4, 1953.

GLASTRUSION

For Resinous Plastic Tubes, Bars, Rods, Angle and Channel Shapes, and Like Elongated Extruded Forms Containing Reinforcing Fibres, for Structural Supports and Reinforcements.
Claims use since Sept. 20, 1952.

Ser. No. 646,705. Western Hardboard Sales Co., Tacoma, Wash. Filed May 8, 1953.



The stippling effect is employed for the purpose of indicating shading and is not a designation of a particular color.
For Compressed Fiber Board—Namely, Hardboard.
Claims use since Nov. 20, 1951.

Ser. No. 647,181. Glass Laboratories, Inc., Brooklyn, N. Y. Filed May 18, 1953.

Silvatrim

The word "Trim" is disclaimed separate and apart from the mark as shown.
For Metalized Plastic Strips Used as Decorative Trim on Automobiles, Bicycles, Motorcycles, Picture Frames, Handles, Furniture, and Like Goods.
Claims use since on or about Mar. 12, 1953.

Ser. No. 649,011. Michael T. Montefusco, Brooklyn, N. Y. Filed June 18, 1953.

KINDER-GARD

No claim is made to the representation of the goods apart from the mark shown on the drawing.
For Protective Metal Guards for Windows.
Claims use since April 1953.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 643,207. Cochran Foil Company, doing business as Cochran Foil Products Co., Louisville, Ky. Filed Mar. 6, 1953.

GLO-WARE

No claim is made to the word "Ware" apart from the mark as shown.
For Aluminum Plates for Use in Connection With the Preparation and Serving of Food and as Receptacles Therefor.
Claims use since Feb. 4, 1953.

Ser. No. 650,636. Monarch Manufacturing Works, Inc., Philadelphia, Pa. Filed July 22, 1953.

MONARCH

For Nozzles—Namely, Agricultural and Industrial Spray Nozzles, and Spray Nozzles for Oil Burners.
Claims use since June 17, 1916.

Ser. No. 650,777. Campbell Chain Company, York, Pa. Filed July 24, 1953.

Uiffy

For Self-Closing Repair Links for Anti-Skid Tire Chains.
Claims use since on or about June 23, 1953.

Ser. No. 650,987. A. W. Francis Company, Somerset, Pa. Filed July 28, 1953.

GREEN GARDEN

For Hose Nozzles.
Claims use since Feb. 24, 1953.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 623,214. Scovill Manufacturing Company, Waterbury, Conn. Filed Jan. 4, 1952. (Sec. 2f as to "Scovill.")

SCOVILL

Applicant claims ownership of Registration No. 284,266.
For Sheet Brass, Tubing Stock, Rod and Wire Stock, Brass Forgings.
Claims use since Nov. 10, 1929.

Ser. No. 625,793. George A. Field, doing business as Northwest Type Foundry, Minneapolis, Minn. Filed Mar. 1, 1952. (Sec. 2f.)

DURABLE FOUNDRY TYPE

The word "Type" is disclaimed as used apart from the mark as shown.
For Printing Type Comprising Rectangular Blocks Having Faces Shaped to Produce Imprinting, Letters, Figures, or Other Characters.
Claims use since Jan. 15, 1931.

Ser. No. 638,456. Vacuum Metals Corporation, Cambridge, Mass. Filed Nov. 21, 1952.

CUPROVAC

For Copper and Copper Base Alloys.
Claims use since in September 1952.

Ser. No. 643,236. Metal Processing Co., Inc., Cedar Grove, N. J. Filed Mar. 6, 1953.

LUSTRACLAD

For Hardenable, Nickel Base Alloy Intended for Direct Application to Aluminum, All Steels, Copper, and Copper Alloy Metals to Resist Corrosion, Add Hardness and Ductility, and To Serve for Decorative Purposes.
Claims use since May 26, 1952.

Ser. No. 646,678. Magnesium Elektron Limited, Clifton Junction, near Manchester, England. Filed May 8, 1953.

TZ

For Castings and Forgings of Magnesium, Zirconium, Thorium, Zinc, and Other Light Metals.
Claims use since Jan. 20, 1953.

Ser. No. 646,679. Magnesium Elektron Limited, Clifton Junction, near Manchester, England. Filed May 8, 1953.

ZT

For Castings and Forgings of Magnesium, Zirconium, Thorium, Zinc, and Other Light Metals.
Claims use since July 18, 1952.

Ser. No. 649,713. Jessop Steel Company, Washington, Pa. Filed July 2, 1953.



The lettering shown on the drawing is "J" and "S."
For High Speed Steels for All Types of Metal Cutting Operations, High Speed and Cast Alloy Bit Steels, High Speed and Alloy Saw Steels, Hot and Cold Work Die Steels, Carbon and Alloy Steels, Stainless and Heat Resisting Steels, Valve Steels, Stainless-Clad Steels, Cast-to-Shape Steels, Composite Tool Steels, All in a Variety of Forms and Special Shapes, and Armor Plate.
Claims use since Nov. 17, 1942.

Ser. No. 650,772. The Beryllium Corporation, Reading, Pa. Filed July 24, 1953.

BERYLDUR

Applicant claims ownership of Registrations Nos. 528,333, 530,611, and 573,614.
For Beryllium-Copper Alloys in the Form of Strip, Rod, Bar, Wire, Billets, Casting Ingots, Castings, and Forgings.
Claims use since June 30, 1953.

CLASS 15

OILS AND GREASES

Ser. No. 638,233. Wynn Oil Company, Azusa, Calif. Filed Nov. 17, 1952.



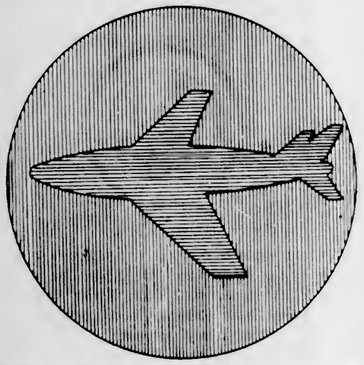
The drawing is lined for red.
For Lubricating Oils and Lubricating Oil Additives.
Claims use since Feb. 26, 1945.

Ser. No. 641,199. Carl Mortensen, doing business as U. S. Marine Chemicals Co., New York, N. Y. Filed Jan. 23, 1953.

mortol

For Chemical Additives to Fuel Oil and Lubricating Oil.
Claims use since December 10, 1952.

Ser. No. 647,124. Toshio Yoshida, doing business under the name and style of Consolidated Oil Company, San Francisco, Calif. Filed May 15, 1953.



The drawing is lined to represent red and blue.
For Gasoline and Oils and Greases for Lubricating Machinery.
Claims use since on or about Jan. 6, 1952.

Ser. No. 647,146. Bobbish Industrial Products Co., Detroit, Mich. Filed May 18, 1953.

Hi-Lo

For High Temperature Grease Used for Lubricating Chassis of Automotive Vehicles, Conveyors, and General Lubrication.
Claims use since Mar. 1, 1953.

Ser. No. 647,147. Bobbish Industrial Products Co., Detroit, Mich. Filed May 18, 1953.

BIPCO

For Lubricant—Namely, Cutting Oil, Hydraulic Oil, Grease, and Oil for Gears and Machinery.
Claims use since Jan. 15, 1953.

Ser. No. 647,867. John B. McLeran, doing business as McLeran's Industries, Duluth, Minn. Filed May 28, 1953.

Molly Oil

Applicant disclaims the word "Oil" except as shown.
For Lubricating Oil Additive.
Claims use since Apr. 6, 1949.

Ser. No. 651,313. Addressograph-Multigraph Corporation, Cleveland, Ohio. Filed Aug. 4, 1953.

DURO-VIS

For Lubricating Oil.
Claims use since prior to Nov. 30, 1937.

Ser. No. 651,471. Southeastern Products Corp., Birmingham, Ala. Filed Aug. 6, 1953.

ANDILUPAC

For Lubricant for Bearings and the Like Which Is Highly Insoluble in Hydrocarbon Solvents of the Kind Used in Dry Cleaning.
Claims use since Apr. 16, 1953.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 533,365. Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Filed Sept. 4, 1947. (Sec. 2f as to "Phelan's.")

Phelan's
Liquid Galvanizing

No claim is made to the words "Liquid Galvanizing," separate and apart from the mark as shown.
For Paint in the Nature of a Liquid Exterior Metal Primer and Finishing Coat Containing Metallic Zinc Powder Paint.
Claims use since Feb. 1, 1933.

Ser. No. 620,421. Gilman Paint and Varnish Company, Chattanooga, Tenn. Filed Oct. 24, 1951. (Sec. 2f as to the word "Gilman.")

GILMAN

VELVA ONE-COAT WALL FINISH

The lining on the drawing represents the colors red and blue, but color is not claimed. No claim is made to the words "One-Coat Wall Finish" except in association with the mark as shown. Applicant claims ownership of Registrations Nos. 524,606 and 530,089.
For Interior Wall Paint.
Claims use since Nov. 28, 1947.

Ser. No. 633,689. Walter Paint Products, Inc., Waterbury, Conn. Filed Aug. 9, 1952.

PAINT WITH Beam Brightest of All!

The words "Paint With," "Brightest of All," and "Trade-Mark" are disclaimed apart from the mark as shown.
For Paints, Varnishes, Enamels, Oil and Varnish Stains, Floor Oils, Shellacs, Paste Wood Fillers, Aluminum and Asphalt Paint Roof Coatings, Damp Proof Paint Coatings, Metal Protective Paint Coatings, Cold Water Paints, Resin Emulsion Paints, Rubber Base Paints, Japan Colors, Acid resisting Paints, and Calsomine Paint Coatings.
Claims use since Aug. 18, 1951.

Ser. No. 641,145. L. K. R. Chemical Products Corporation, Detroit, Mich. Filed Jan. 22, 1953.

STA-LINE

For the purposes of registration the word "Line" is disclaimed apart from the mark shown.
For Protective Coating, of Chemical Paint Composition, for Surfaces of Various Materials, Such as Wood, Brick, Stone, and Cement.
Claims use since Apr. 9, 1952.

Ser. No. 646,812. The Sherwin-Williams Company, Cleveland, Ohio. Filed May 11, 1953.

Kem-O-Lite

No claim is made for "O-Lite" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 275,775, 559,004, and others.
For Paint for Stucco, Concrete, and Masonry.
Claims use since Dec. 24, 1952.

Ser. No. 649,163. Kyanize Paints, Inc., Everett, Mass. Filed June 22, 1953.

COLOR-Spree

The word "Color" is disclaimed apart from the mark as shown on the drawing.
For Interior Paints for Walls, Ceilings, and Woodwork.
Claims use since May 26, 1953.

Ser. No. 649,617. Stoner-Mudge, Inc., Pittsburgh, Pa. Filed June 30, 1953.

S-M

For Pigmented or Clear Resinous Coating Compositions.
Claims use since Aug. 2, 1945, in the style shown; and since 1932 in a variant monogram style of the letters "SM."

Ser. No. 649,963. Royal Sealer, Inc., Miami, Fla. Filed July 7, 1953.



For Sealer—Namely, a Protective Liquid Penetrating Seal for Application to Metal, Fabrics, and Surfaces of Terrazzo, Concrete, Wood, and the Like.
Claims use since Dec. 1, 1952.

Ser. No. 650,998. Imperial Chemical Industries Limited, London and Millbank, London, England. Filed July 28, 1953.

BELCO

For Paints, Enamels, Varnishes, Lacquers, and Paint Thinners.
Claims use since Jan. 9, 1926.

Ser. No. 651,370. Nils F. Testor, doing business as Testor Chemical Company, Rockford, Ill. Filed Aug. 4, 1953.

PLA

For Paints and Enamels, and Thinners Therefor.
Claims use since Apr. 22, 1952.

Ser. No. 651,811. Pacific Paint & Varnish Co., Berkeley, Calif. Filed Aug. 24, 1953.

Pacific

For Paint Products—Namely, Paints, Enamels, and Varnishes.
Claims use since 1927.

Ser. No. 652,157. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed Aug. 24, 1953.

NEPOXIDE

For Ingredients Comprising a Modified Epoxy Resin and a Catalyst for Making a Resin Coating.
Claims use since July 15, 1953.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 614,268. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia. Filed May 23, 1951.

HYPOFIL

For Disposable Cartridges Containing Medicines and Pharmaceutical Preparations for Injection by Means of Needleless Syringes.
Claims use since Mar. 23, 1951.

Ser. No. 622,565. Willis M. Torbert, New Rochelle, N. Y. Filed Dec. 15, 1951.

NUTRIDINE

For Vitamin-Tonic Medicinal Preparations.
Claims use since Nov. 26, 1951.

Ser. No. 630,878. Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Filed June 7, 1952.

DESULAN

Applicant claims ownership of Swiss Registration No. 111,905, dated Oct. 18, 1946.
For Pharmaceutical Preparation for Treatment of Disorders Causing Vaginal Discharge, of Colpitis, for Use as an Adjuvant in the Treatment of Adnexitis, and as a Prophylactic in Gynecological and Obstetrical Operations by Way of the Vagina.

Ser. No. 634,484. Physiological Chemicals Company, Inc., New Rochelle, N. Y. Filed Aug. 26, 1952.

PC

For Pharmaceutical Preparations Viz, Iron Adenylate Solution; Ferrous Ascorbate; Calcium Ascorbate; Crystalline Sodium Ascorbate; Nitrogen Photein Hydrolysate of Beef and Yeast; and Procaine Ascorbate.
Claims use since December 1935.

Ser. No. 634,485. Physiological Chemicals Company, Inc., New Rochelle, N. Y. Filed Aug. 26, 1952.

PROCANYL

For Pharmaceutical Preparation of Procaine Adenylate for Intramuscular Injection.
Claims use since June 10, 1952.

Ser. No. 634,976. Edgar A. Ferguson, Jr., doing business as E. A. F. Research Developments, Brooklyn, N. Y. Filed Sept. 8, 1952.

LYTE

For Appetite Satient Compositions in Cigarette, Cigar, and Pipe Tobacco Form.
Claims use since Aug. 12, 1952.

Ser. No. 637,499. Oxford Pharmaceutical Company, Philadelphia, Pa. Filed Nov. 1, 1952.

DERMARONE

The drawing is lined for red.
For Medicinal Preparation in Liquid Form for Treatment of Hair and Scalp.
Claims use since on or about July 25, 1952.

Ser. No. 638,009. Monsanto Chemical Company, St. Louis, Mo. Filed Nov. 13, 1952.

METHIONOL

For Preparation for Animal Feed Supplementation.
Claims use since Aug. 29, 1952.

Ser. No. 638,923. Sodacyl, Inc., Seymour, Ind. Filed Dec. 3, 1952.

SODACYL

For Capsule for Relief of Pain.
Claims use since 1949.

Ser. No. 642,420. Remedol Company, Nashville, Tenn. Filed Feb. 18, 1953.

GELUBARB

For Ethical Medicinal Preparation Composed Principally of Aluminum Hydroxide, Belladonna, and Phenobarbital.
Claims use since May 1939.

Ser. No. 642,938. Brown-Vaughan Co., San Francisco, Calif. Filed Mar. 2, 1953.

CORN-O-CIDE



The portrait shown is that of Dr. Walter Ernst Vaughan, a member of applicant firm, whose consent is of record. No claim is made to the word "Corn" apart from the mark.
Applicant claims ownership of Registration No. 430,143.
For Package Containing a Medicated Foot Powder and Medicated Corn Plasters.
Claims use since March 1928.

Ser. No. 644,529. The Wander Company, doing business under the name "Smith-Dorsey," Chicago, Ill. Filed Mar. 31, 1953.

TRIAMINIC

For Antihistaminic Preparation.
Claims use since Mar. 18, 1953.

Ser. No. 645,684. The Upjohn Company, Kalamazoo, Mich. Filed Apr. 21, 1953.

Dacodrops

For Medicinal Preparation for the Treatment of Vitamin and Nutritional Deficiencies.
Claims use since Jan. 19, 1953.

Ser. No. 645,907. Paul Lippens Inc., Montreal, Quebec, Canada. Filed Apr. 24, 1953.

stomabyl

For Medication for the Treatment of Peptic and Stomach Ulcers and Other Disturbances Pertaining to the Gastro-enterogeneous Affections.
Claims use since Mar. 14, 1949.

Ser. No. 647,271. Dr. Karl Thomae G. m. b. H., Biberach an der Riss, Germany. Filed May 19, 1953.

MASIGEL

Applicant claims ownership of German Registration No. 608,271, dated Apr. 13, 1953.
For Antacid and Absorbant.

Ser. No. 647,272. Dr. Karl Thomae G. m. b. H., Biberach an der Riss, Germany. Filed May 19, 1953.

NYXANTHAN

Applicant claims ownership of German Registration No. 632,815, dated Apr. 13, 1953.
For Theophylline and Papaverine Preparation for Rectal Administration.

Ser. No. 647,273. Dr. Karl Thomae G. m. b. H., Biberach an der Riss, Germany. Filed May 19, 1953.

PERXANTHIN

Applicant claims ownership of German Registration No. 609,591, dated Apr. 13, 1953.
For Preparation for Prolonged Treatment of Cardiac Circulation Disorders.

Ser. No. 647,722. Wesley J. Richards, Santa Monica, Calif. Filed May 26, 1953. (Sec. 2f.)

PERL A DAY

Applicant claims ownership of Registration No. 407,279.
For Vitamin Capsules.
Claims use since Feb. 1, 1943.

Ser. No. 647,910. Columbus Wholesale Barber & Beauty Supply Co., Inc., doing business as Eudora Products Company, Columbus, Ohio. Filed May 29, 1953.

SCALPEX

Applicant claims ownership of Registration No. 387,764.
For Medicinal Preparations for the Treatment of Dandruff and Minor Skin Irritations Both in Liquid and Ointment Form.
Claims use since Dec. 4, 1952.

Ser. No. 648,067. The Upjohn Company, Kalamazoo, Mich. Filed June 1, 1953.

Pen-G-Cap

For Antibiotic Preparation.
Claims use since May 13, 1953.

Ser. No. 648,790. Physicians' Drug & Supply Co., Philadelphia, Pa. Filed June 15, 1953.

CARDOJEL

For Electrocardiograph Jelly for Use on the Human Body in Electrocardiography, Encephalography, and Shock Therapy.
Claims use since on or about Apr. 25, 1951.

Ser. No. 649,801. Mathieson Chemical Corporation, New York, N. Y. Filed July 3, 1953.

Fironzin

For Antibiotic Preparation.
Claims use since May 26, 1953.

Ser. No. 649,802. Mathieson Chemical Corporation, New York, N. Y. Filed July 3, 1953.

Prolacthyl

For Corticotropic Hormone Preparation.
Claims use since June 5, 1953.

Ser. No. 649,803. Mathieson Chemical Corporation, New York, N. Y. Filed July 3, 1953.

DELATESTRYL

For Preparation for Use Where Male Sex Hormone Is Indicated.
Claims use since June 9, 1953.

Ser. No. 649,877. Geriatric Pharmaceutical Corp., Bellerose, N. Y. Filed July 6, 1953.

GERISAL

For Pharmaceutical Preparation for the Treatment of Chronic Rheumatic Diseases.
Claims use since Apr. 22, 1953.

Ser. No. 649,878. Geriatric Pharmaceutical Corp., Bellerose, N. Y. Filed July 6, 1953.

MANOPHYLLIN

For Pharmaceutical Preparation for the Management of Essential Hypertension and Prophylactic Treatment of the Anginal Syndrome.
Claims use since Apr. 22, 1953.

Ser. No. 650,072. Malcolm E. Smith, Jr., doing business under the trade name Turner-Smith Drug Company. New York, N. Y. Filed July 9, 1953.

POUNDEX

For Therapeutic Nutritive Tonic for Gaining Weight.
Claims use since May 5, 1953.

Ser. No. 651,118. Mead Johnson & Company, Evansville, Ind. Filed July 30, 1953.

Panalins

For Vitamin Capsules.
Claims use since June 5, 1953.

Ser. No. 651,280. Nutrilite Products, Inc., Buena Park, Calif. Filed Aug. 3, 1953.

NUTRAVITE

Applicant claims ownership of Registrations Nos. 402,891 and 545,212.
For Vitamin Preparation.
Claims use since July 20, 1948.

Ser. No. 651,284. Parke, Davis & Company, Detroit, Mich. Filed Aug. 3, 1953.

MERCLORAN

For Diuretic Preparation.
Claims use since July 15, 1953.

Ser. No. 651,285. Parke, Davis & Company, Detroit, Mich. Filed Aug. 3, 1953.

TRIOGEN

For Combination of Diphtheria, Tetanus, and Pertussis Immunizing Vaccines.
Claims use since July 8, 1953.

Ser. No. 651,327. Geigy Company, Inc., New York, N. Y. Filed Aug. 4, 1953.

MEDAPAN

Applicant claims ownership of Registration No. 443,793.
For Pharmaceutical Preparations, Particularly for Sedatives and Hypnotics.
Claims use since June 10, 1953.

Ser. No. 651,328. Geigy Company, Inc., New York, N. Y. Filed Aug. 4, 1953.

SULFIRGAMIDE

Applicant claims ownership of Registration No. 407,464.
For Pharmaceutical Preparation, Specifically for Organic Chemotherapeutic Products for the Treatment of Infections of Pneumococci.
Claims use since June 10, 1953.

Ser. No. 651,538. Schenley Distillers, Inc., New York, N. Y. Filed Aug. 7, 1953.

JAB

For Antibiotic Feed Supplement.
Claims use since June 24, 1953.

Ser. No. 651,540. Schering Corporation, Bloomfield, N. J. Filed Aug. 7, 1953. (Sec. 2f.)

Schering

Applicant claims ownership of Registrations Nos. 65,291, 65,626, and others.
For Hormones, Antihistamines, X-Ray Diagnostic Agents, Sulfonamides, Hypnotics, Sedatives, Anticholinergic Agents, Anti-Tubercular Agents, Antibiotics, Antiseptics, Antacids, Anti-Rheumatics, and Motion Sickness Remedies.
Claims use since 1929.

Ser. No. 651,766. Dr. L. D. LeGear Medicine Co., St. Louis, Mo. Filed Aug. 13, 1953. (Sec. 2f as to "Dr. LeGear's.").

DR. LEGEAR'S MYCOSIST

The name is that of Dr. L. D. LeGear, deceased. Applicant claims ownership of Registrations Nos. 293,263, 291,444, and others.
For Preparation Used in the Treatment of Poultry to Assist in Preventing and Controlling the Spread of Infectious Diseases.
Claims use since June 23, 1953, on the complete mark; and since Oct. 15, 1918, as to "Dr. LeGear's."

Ser. No. 651,880. Abbott Laboratories, North Chicago, Ill. Filed Aug. 17, 1953.

TROXANESIN

For Medicinal Preparation for Use as a Muscle Relaxant.
Claims use since July 22, 1953.

Ser. No. 651,926. The S. E. Massengill Company, Bristol, Tenn. Filed Aug. 17, 1953.

HYPNORM

For Pharmaceutical Preparation Offering Dual Action Through the Combination of Sedative and Central Nervous Stimulant Drugs.
Claims use since July 17, 1953.

Ser. No. 652,099. Chase Chemical Company, Newark, N. J. Filed Aug. 21, 1953.

GERIPANS

For Geriatric Vitamins and Lipotropics.
Claims use since in June 1953.

Ser. No. 652,101. Chase Chemical Company, Newark, N. J. Filed Aug. 21, 1953.

Neo-Phenyline

For Nasal Decongestant.
Claims use since November 1951.

Ser. No. 652,102. Chase Chemical Company, Newark, N. J. Filed Aug. 21, 1953.

THERAGEL

For High Potency Therapeutic Vitamins.
Claims use since in August 1950.

Ser. No. 654,069. Ortho Pharmaceutical Corporation, Raritan, N. J. Filed Oct. 1, 1953.

Salpix

For Contrast Media.
Claims use since May 20, 1953.

Ser. No. 654,835. Ortho Pharmaceutical Corporation, Raritan, N. J. Filed Oct. 15, 1953.

Ortho

Applicant claims ownership of Registrations Nos. 387,080, 390,141, and others.
For Gynecological Preparations Including Preparations for Feminine Hygiene in the Form of Creams and Jellies, Spermicidal Preparations, Vaginal Creams and Jellies, Douche Preparations, Preparations for Use in the Management of the Menopause, Preparations for the Treatment of Specific and Non-Specific Vaginitides, Enzymes and Enzyme Solutions, Preparations for the Treatment of Nausea and Vomiting, Injectable Estrogenic Solutions, Nutrient Buffers, Blood Fractions, Massage Cream, Antiseptic Cream, Nipple Cream; Veterinary Preparations Including Estrogenic Solutions, Preparations for the Preservation and Maintenance of Semen; Contrast Media for Roentgenology; Diagnostic Products Including Cellular Stains, Antibody Test Materials, Preparations for Use in Determining the Presence or Absence of Blood Factors and for Blood Typing and Culture Media for Microbes; and Albumen.
Claims use since Mar. 21, 1941.

CLASS 19

VEHICLES

Ser. No. 548,855. Sears, Roebuck and Co., Chicago, Ill. Filed Feb. 5, 1948. (Sec. 2f.)

J.C. Higgins

The mark is the name of a living individual who has given his consent to the use and registration of said name.
For Bicycles, Bicycle Hand Horns, Bicycle Repair and Replacement Parts (Viz., Pedals, Fenders, Wheels), Bicycle Coaster Brakes, Power Driven Bicycles, Bicycle Baskets.
Claims use since June 20, 1946.

Ser. No. 589,945. The Anderson Company, Gary, Ind. Filed Dec. 27, 1949.

MAXI-VAC

For Windshield Wiper Motors.
Claims use since Dec. 16, 1949.

Ser. No. 638,144. Hartmeister Sales Company, Denver, Colo. Filed Nov. 15, 1952.

P.T. PerfecTow

For Trailer Hitches.
Claims use since Apr. 1, 1952.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 640,429. Bonafide Mills, Inc., Winthrop, Maine, and New York, N. Y. Filed Jan. 7, 1953.

JIFFY-BACK

The word "Back" is disclaimed.
For Felt Base, Linoleum, Composition, and Plastic Wall Covering.
Claims use since Dec. 15, 1952.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 646,633. Surface Conduction, Inc., New York, N. Y. Filed May 7, 1953.

G-STRING

The word "String" is disclaimed apart from the mark as shown on the drawing.

For Micro Wave Transmission Equipment and Accessories.

Claims use since May 1, 1952.

Ser. No. 651,558. Ford Motor Company Limited, London, England. Filed July 30, 1953.

Em-Se

Applicant claims ownership of British Registrations Nos. 699,682, 699,684, and others, dated July 10, 1951.

For Dynamos and Parts Thereof, Electricity Generators, Electric Ignition Apparatus for Internal Combustion Engines, Magnetos and Parts Thereof, Sparking Plugs for Internal Combustion Engines, Ammeters and Parts Thereof, Commutators and Parts Thereof, Electric Accumulators and Parts Thereof, Electric Batteries and Parts Thereof, Electric Condensers and Parts Thereof, Electric Connectors and Parts Thereof, Electric Cut-Outs and Parts Thereof, Electrical Distributors and Parts Thereof, Electric Ignition Coils and Parts Thereof, Electric Junction Boxes, Electric Switches, Insulated Electric Wire, Wireless and Telephone Receiving Apparatus for Land Vehicles, Automobile Headlight Reflectors, Electric Lamp Bulbs and Holders Therefor, Electric Heating Apparatus, Lighting Installations, Electric Direction Indicators for Land Vehicles, Electric Starting Machinery and Parts Thereof for Land Vehicles, Electric Horns for Land Vehicles.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 633,462. William Stanley Messer, trading as C. Giles & Co., St. Albans, England. Filed Aug. 4, 1952.

KWIZ

Applicant claims ownership of British Registration No. 649,025, dated June 20, 1946.

For Darts, Dart Boards, and Parts Thereof, and Dart Scorers.

Ser. No. 641,436. Cortland Line Company, Inc., Cortland, N. Y. Filed Jan. 28, 1953. (Sec. 2f.)

Half Dollar Brand

Applicant claims ownership of Registration No. 291,497.

For Silk Fish Lines.

Claims use since on or about July 10, 1930.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 601,930. Lowell Specialty Company of Lowell, Mich., doing business under the name Lowell Manufacturing Company, Chicago, Ill. Filed Aug. 8, 1950. (Sec. 2f as to "Lowell.")

LOWELL GEM

For Hand Operated Compression Sprayers Used To Atomize Fly Oils, Soluble Insecticides, Fungicides, Weed Killers; Also Used To Spray Deodorants, and Any Light to Heavy Sediment-Free Liquid.

Claims use since Dec. 31, 1928.

Ser. No. 617,538. Gem Oil Tool Co. Inc., Lafayette, La. Filed Aug. 10, 1951.

GEMO CO

For Oil Well Tubing Centralizers and Pipe Lifters.

Claims use since Apr. 10, 1950.

Ser. No. 620,438. Roto-Rooter Corporation, Des Moines, Iowa. Filed Oct. 24, 1951.

ROTO-ROD

Applicant disclaims the word "Rod" apart from the mark as shown. Applicant claims ownership of Registration No. 344,958.

For Pipe Cleaning Machines Used in Cleaning of Municipal and Industrial Sewer, Oil, and Water Pipes, Field or Drain Tile, and Conduits for Electric Cables.

Claims use since May 27, 1946.

Ser. No. 625,423. Rudolph Kahn, doing business as Hub Vacuum Stores, New York, N. Y. Filed Feb. 23, 1952.

PRECISION MASTER

The word "Precision" is disclaimed apart from the mark shown.

For Sewing Machines.

Claims use since Jan. 18, 1952.

Ser. No. 627,304. Bernard-Moteurs, S. A., Paris, France. Filed Feb. 29, 1952.

Bernard.

The mark shown consists of the written signature surname, "Bernard," which is the actual surname signature of James Bernard, President and Managing Director of the applicant. Applicant claims ownership of French Registration No. 4,815, dated Nov. 12, 1947; and United States Registrations Nos. 553,465 and 553,466.

For Wheel and Crawler Type Tractors and Parts Thereof—Namely, Clutches, Reduction Gears, Reversing Gears, and Gear Boxes; Fans and Radiators for Internal Combustion Engines, Stationary and Mobile Hoisting Winches.

Ser. No. 630,976. Universal Oil Products Company, Chicago, Ill. Filed June 9, 1952.

UDEX

For Apparatus, in the Nature of a Plant, for the Treatment of Hydrocarbon Mixtures Containing Aromatic Hydrocarbons, in Which Apparatus the Hydrocarbon Mixture Is Contacted in an Extraction Column With a Solvent Comprising One or More Glycols To Form a Glycol-Aromatic Hydrocarbon Containing Extract, and, in a Distillation Column of the Apparatus, the Extract Is at Least Partially Vaporized To Recover an Aromatic Hydrocarbon Product.

Claims use since Jan. 2, 1951.

Ser. No. 632,740. Pittman Products, Inc., Huntington Park, Calif. Filed July 18, 1952.

WASTIK ®

For Rubber Hand Tool for Scraping Garbage From Plates, Dishes, and Sinks Into a Garbage Disposal Unit.

Claims use since June 18, 1952.

Ser. No. 634,004. Howard H. Samuel, Inc., Hackettstown, N. J. Filed Aug. 15, 1952.

TRIUMPH HSH INC.

Applicant disclaims the right to any exclusive use of the word "Inc." except in the association shown. Applicant claims ownership of Registration No. 541,438.

For Power Operated Tractor Attachments and Associated Parts—Namely, Grass, Grain, and Brush Cutters; Scraper Blades; Shovels; Diggers; and Separable Platforms for Attachment To Tractors Upon Which May Be Mounted Manual Controls for Controlling the Movement of the Tractor and the Operation of the Machinery Hauled Thereby.

Claims use since July 1, 1951.

Ser. No. 634,374. LML Engineering & Mfg. Corp., Columbia City, Ind. Filed Aug. 23, 1952.



The drawing is lined for the color red.

For Farm Elevators of the Endless Conveyor Type, Pulley Driven.

Claims use since on or about Sept. 1, 1947.

Ser. No. 635,619. Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Filed Sept. 23, 1952.

PULVERATOR

For Material Comminuting Machinery—Namely, Hammer Mills, for Comminuting a Solid Mineral Such as Rock, and Parts Thereof.

Claims use since 1911.

Ser. No. 643,209. The Desmond-Stephan Mfg. Co., Urbana, Ohio. Filed Mar. 6, 1953.

Beltbrasive

For Grinding Wheel Dressers.

Claims use since Oct. 1, 1952.

Ser. No. 645,203. Tarex S. A., Geneva, Switzerland. Filed Apr. 13, 1953.

TAREX

Applicant claims ownership of Swiss Registration No. 144,805, dated Dec. 27, 1952.

For Automatic Machines for the Machining of Metals—Namely, Automatic Turret Lathes, Threading Lathes, and Presses, and Parts Thereof.

Ser. No. 646,223. Koebel Diamond Tool Co., Detroit, Mich. Filed Apr. 30, 1953.

HANDEXER

For Diamond Carrying Cutting and Dressing Tools—Namely, Holders for Mounting and Indexing Diamond Carrying Tools for Dressing Grinding Wheels.

Claims use since on or about Mar. 24, 1953.

Ser. No. 646,405. Kold Krisp Apple Service, doing business as Fruit-O-Matic Manufacturing Company, Los Angeles, Calif. Filed May 4, 1953.

Fruit-o-matic

That part of the mark consisting of the word "Fruit" is hereby disclaimed.

For Fruit Vending Coin Operated Machines.

Claims use since in about July 1947.

Ser. No. 646,757. John W. Giffin, doing business as Giffin Manufacturing Company, Wichita, Kans. Filed May 11, 1953.

GIFF

For Tools Primarily Used in the Oil Field Industry—Namely, Pipe Gripping Tools and Rod Gripping Tools.

Claims use since Jan. 15, 1953.

Ser. No. 646,998. Frank J. Fink, doing business as F. J. Fink & Co., Cleveland, Ohio. Filed May 14, 1953.

WINK

For Power Operated Cutting Machines for Cutting Rubber, Plastics, Impregnated Fabrics, Reinforced Hose, Stranded Wire, Asbestos, Natural and Synthetic Fibres, and Like Materials, Either Hot or Cold, Wet or Dry, Continuously or Intermittently, Without Distortion.
Claims use since Apr. 3, 1952.

Ser. No. 647,648. Outboard, Marine & Manufacturing Company, Waukegan, Ill. Filed May 25, 1953.

Bo'sun

For Outboard Motors and Parts Thereof.
Claims use since Apr. 29, 1953.

Ser. No. 647,774. Hardinge Company, Incorporated, York, Pa. Filed May 27, 1953. (Sec. 2f.)

CONICAL MILL

The word "Mill" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 155,153.
For Ball and Pebble Mills.
Claims use since December 1908.

Ser. No. 647,775. Hardinge Company, Incorporated, York, Pa. Filed May 27, 1953. (Sec. 2f.)

HARDINGE

Applicant claims ownership of Registration No. 174,921.
For Ball and Pebble Mills.
Claims use since 1911.

Ser. No. 648,185. Niles-Bement-Pond Company, West Hartford, Conn. Filed June 3, 1953.

COILEX

For Screw Thread Cutting Taps.
Claims use since Jan. 19, 1953.

Ser. No. 648,677. A. E. Lewis & Co., Inc., New York, N. Y. Filed June 12, 1953.

FLORAINE

For Stainless Steel Knives, Forks, Spoons, Pie Trowels, Carving Knives and Forks, Meat Serving Forks, Meat Slicing Knives, Butter Spreaders, and Letter Opening Knives.
Claims use since May 20, 1953.

Ser. No. 650,997. Hyster Company, Portland, Oreg. Filed July 28, 1953. (Sec. 2f.)

LOAD-GRAB

For Load-Squeezing Mechanisms Adapted for Installation on Industrial Trucks of the Kind Commonly Called Lift Trucks.
Claims use since June 1948.

CLASS 25

LOCKS AND SAFES

Ser. No. 649,236. Jorgen S. Lien, New York, N. Y. Filed June 23, 1953.

Jöli

For Safes.
Claims use since Dec. 11, 1952.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 627,462. Ruko Company, New York, N. Y. Filed Apr. 2, 1952.

X-PANDO

For Leather Bag Designed for Carrying Photographic Camera and Parts Therefor.
Claims use since Mar. 21, 1951.

Ser. No. 634,633. Computer Research Corporation of California, Hawthorne, Calif. Filed Aug. 29, 1952.

CRC

The drawing is lined for the color red, but color is not claimed.
For Electronic Digital Computers and Parts and Equipment Therefor—Namely, Magnetic Flip-Flops, Crystal Diode Testers, and Magnetic Heads.
Claims use since Feb. 18, 1952, as to the mark shown; and since Dec. 13, 1952, as to the mark consisting of the letters "CRC" in a circle.

Ser. No. 650,851. Wirtz Company, Peoria, Ill. Filed July 24, 1953.

typemaster

For Photographic Matrices for Use in Photocomposing Machines.
Claims use since Feb. 24, 1953.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 612,445. Coro, Inc., New York, N. Y. Filed Apr. 10, 1951.

TRIO TRICKS

For Jewelry for Personal Wear and Adornment, Not Including Watches—Namely, Earrings, Bracelets, Necklaces, Brooches, Pin Clips, Finger Rings, and Lockets.
Claims use since January 1951.

Ser. No. 626,576. Jewels by D'eri, Inc., Providence, R. I. Filed Mar. 17, 1952.

D'eri

For Pendants, Necklaces, Brooches, Bracelets, Earrings, Hair Ornaments, Hat Ornaments, Ornamental Chains, Made Wholly or Partly of or Plated With Precious Metal.
Claims use since on or about Sept. 28, 1951.

Ser. No. 636,726. Niash Refining Company, New York, N. Y. Filed Oct. 16, 1952.

CUFF MASTER

The word "Cuff" is disclaimed apart from the mark as shown.
For Cuff Link Wing Backs.
Claims use since Sept. 30, 1952.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 631,106. Leonard H. King, doing business under the name The Laree Company, Garden City, N. Y., assignor to S. O. S. Company, Chicago, Ill., a corporation of Delaware. Filed June 12, 1952.

TUFFY

For Sponge Mop for Pots and Pans, and Household and Mechanics' Use.
Claims use since June 21, 1951.

Ser. No. 648,482. Carolina Mop Manufacturing Co., Anderson, S. C. Filed June 9, 1953.

CAMOCO

For Floor Mops.
Claims use since May 11, 1951.

Ser. No. 649,290. Dupli-Color Products Co., Inc., Chicago, Ill. Filed June 24, 1953.

Scratch-Master

For Fountain Brush Applicator for Applying Paints, Lacquers, Waxes, and the Like To Finished Surfaces, Sold Filled.
Claims use since June 12, 1953.

Ser. No. 653,346. Atlas Supply Company, Newark, N. J. Filed Sept. 18, 1953.

Econo-Cloth

The word "Cloth" is disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 295,109.
For Cloths for Use in Applying Cleaners, Waxes, and Polishes, and Also for Use in Buffing.
Claims use since Aug. 13, 1953.

Ser. No. 655,921. The New York Association for the Blind, Inc., New York, N. Y. Filed Nov. 5, 1953.

FAN-FLARE

For Floor Brooms.
Claims use since Oct. 20, 1953.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 601,607. Elgin Softener Corporation, Elgin, Ill. Filed Aug. 2, 1950.

MONOFLO

For Water Softening and De-Mineralizing Apparatus of the Ion Exchange Type.
Claims use since May 19, 1950.

Ser. No. 601,608. Elgin Softener Corporation, Elgin, Ill. Filed Aug. 2, 1950.

ULTRA

For Water Softening and De-Mineralizing Apparatus of the Ion Exchange Type.
Claims use since May 19, 1950.

Ser. No. 634,689. Hudson Engineering Corporation, Houston, Tex. Filed Aug. 30, 1952.

Combin-aire

The word "Aire" is disclaimed when used apart from the mark as shown.

For Cooling Apparatus for Cooling Water by Direct Contact With Air and Cooling Fluids in Air-Cooled Heat Exchangers by Indirect Contact With the Air.

Claims use since Nov. 15, 1951.

Ser. No. 650,673. Air Reduction Company, Incorporated, New York, N. Y. Filed July 23, 1953.

AIRCO

For Filters for Pipe Lines, Inlet Filters for Manifolds and Bursting Disc Assemblies.

Claims use since 1922.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 640,966. Service Parts Systems, Inc., Grosse Pointe, Mich. Filed Jan. 19, 1953.

SERVICE PARTS SYSTEMS INC

Applicant disclaims the words "Service Parts," "Systems Inc.," and "Detroit 30, Michigan," apart from the mark as shown.

For Units Each Comprising a Rack Having Uprights and Vertically Spaced Cross Bars, and a Plurality of Bins Mounted on Such Bars To Receive Machine Parts.

Claims use since Dec. 15, 1952.

Ser. No. 642,469. The J. C. Hirschman Company, Indianapolis, Ind. Filed Feb. 19, 1953.

"POSTURE-BEAUTY"

The term "Beauty" is disclaimed apart from the mark as shown.

For Bed Mattresses.

Claims use since on or about Sept. 15, 1938.

Ser. No. 642,471. The J. C. Hirschman Company, Indianapolis, Ind. Filed Feb. 19, 1953.

"Posture-King"

For Bed Mattresses.

Claims use since on or about Sept. 15, 1938.

Ser. No. 648,531. Carriage Trade Modern, New York, N. Y. Filed June 10, 1953.

Carriage trade MODERN

The drawing is lined for red. The word "Modern" is disclaimed apart from the mark as shown.

For Certain Articles of Children's and Adults' Furniture—Namely, Clothes Racks, Stools, Cribs, Bureaus, Bookcases, and Tables.

Claims use since May 4, 1953.

CLASS 33

GLASSWARE

Ser. No. 640,295. Metal Frame Aquarium Company, Pine Brook, N. J. Filed Jan. 2, 1953.

METAFRAME

For Household Glass Aquariums.

Claims use since Aug. 15, 1946.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 643,049. S. F. Appliances, Limited, Ridgefield, N. J. Filed Mar. 3, 1953.

Sun Flame

Applicant claims ownership of Registrations Nos. 413,600 and 516,793.

For Oil Stoves and Ranges, and for Portable Ovens.

Claims use since on or about Aug. 15, 1939.

Ser. No. 650,674. Air Reduction Company, Incorporated, New York, N. Y. Filed July 23, 1953

AIRCO

Applicant claims ownership of Registrations Nos. 141,469, 201,836, and others.

For Oxyacetylene Welding and Cutting Apparatus; Torches or Blowpipes; Machines for Heating, Welding, and Cutting of Metals With Oxygen, Acetylene, and Other Gases; Acetylene Generators; Torch Tips; and Scarfing and Flame Hardening Machines.

Claims use since May 23, 1917.

Ser. No. 650,971. Besser Metal Products Corporation, Charlotte, N. C. Filed July 28, 1953.

Snorkel

For Oil Fired Furnaces.

Claims use since on or about June 1, 1951.

CLASS 37

PAPER AND STATIONERY

Ser. No. 620,748. Frank Smythson Limited, London, England. Filed Oct. 31, 1951.

FRANK SMYTHSON'S

"FEATHERWEIGHT"

The word "Featherweight" is disclaimed apart from the mark as shown in its entirety. The name "Frank Smythson's" is that of the founder of applicant company, now deceased. Applicant claims ownership of Registration No. 264,591.

For Diaries.

Claims use since Oct. 1, 1909; and since August 1926 in commerce between Great Britain and the United States.

Ser. No. 621,476. Marcalus Manufacturing Co. Inc., East Paterson, N. J. Filed Nov. 20, 1951.

MARCAL HANKIES

The term "Hankies" is disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 372,674, 420,461, 425,272, and 505,328.

For Paper Handkerchiefs.

Claims use since January 1939.

Ser. No. 624,624. American Fiber-Velope Mfg. Co., Philadelphia, Pa. Filed Feb. 7, 1952.

EXPANDEX

For Expanding Envelopes and File Folders, File Folders, Pocket File Folders, and Document File Folders.

Claims use since on or about Jan. 2, 1919.

Ser. No. 624,686. Institute of Natural Law, Inc., Miami, Fla. Filed Feb. 8, 1952.

UNDER·YOUR·HAT

For Expanding Wallet Files, and Forms for Accounting, Filing, and Job Estimating Controls and Job Estimating Control Systems.

Claims use since Oct. 11, 1948.

Ser. No. 627,825. S. H. Kress and Company, New York, N. Y. Filed Apr. 9, 1952.

Scholastic

Applicant claims ownership of Registrations Nos. 560,110 and 562,353.

For Drawing Paper, Loose Leaf Fillers Including Ruled, Theme, Science, and Drawing, Drawing Tablets, Penmanship Tablets, Spelling Tablets, Writing Tablets, Blank Music Books, Art Paper, and Teachers' Roll Books.

Claims use since Feb. 4, 1935, as shown; and since July 1924 in another form.

Ser. No. 636,828. Ireland & Taub Paper Company, Inc., New York, N. Y. Filed July 24, 1952. (Sec. 2f.)

FOLDRITE ENAMEL

The word "Enamel" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 298,173.

For Coated Printing Paper.

Claims use since Sept. 1, 1931.

Ser. No. 640,507. Fort Howard Paper Company, Green Bay, Wis. Filed Jan. 8, 1953.

FORT HOWARD

Applicant claims ownership of Registration No. 235,462.

For Toilet Paper, Paper Towels, Paper Napkins, and Facial Tissue.

Claims use since Oct. 5, 1949.

Ser. No. 640,668. Burkhardt-Warner Industries, Holyoke, Mass. Filed Jan. 13, 1953.

DAILY DOZEN HONOR ROLL

The words "Honor Roll" are disclaimed.

For Partially Printed Children's Behavior Charts.

Claims use since Dec. 8, 1952.

Ser. No. 644,468. Topco Associates, Inc. (Cooperative), Chicago, Ill. Filed Mar. 30, 1953.

BABY SOFT

The word "Soft" is disclaimed apart from the mark as shown.

For Toilet Tissue.

Claims use since on or about Mar. 21, 1949.

Ser. No. 647,725. Saavedra Workshop, Chicago, Ill. Filed May 26, 1953.

"Mail Dog"

For Letter and Memoranda Display Holder.
Claims use since Oct. 19, 1951.

Ser. No. 647,964. Sutherland Paper Company, Kalamazoo, Mich. Filed May 29, 1953. (Sec. 2f.)

Formfit

For Shirt and Collar Protectors of Cardboard for Use by Manufacturers and Laundries for Holding Shirts in Folded Condition.
Claims use since June 1, 1939.

Ser. No. 648,223. C. G. Winans Company, Newark, N. J. Filed June 3, 1953.

WIN WAX

No rights to registration of the word "Wax" are claimed apart from the mark as shown.
For Wax Treated Paper.
Claims use since May 1, 1953.

Ser. No. 648,363. Bermingham & Prosser Company, also doing business as Processed Papers, Chicago, Ill. Filed June 8, 1953.

PROPER

For Practice Paper, Tracing Paper, and Tagboard.
Claims use since Oct. 27, 1950.

Ser. No. 648,587. Chemical Paper Manufacturing Company, Holyoke, Mass. Filed June 11, 1953.

SKY WOVE

No registration rights are claimed for the word "Wove" separate and apart from the mark as a whole.
For Cover Paper.
Claims use since Aug. 14, 1952.

Ser. No. 649,111. Mal'anco, Inc., Blue Island, Ill. Filed Mar. 16, 1953.

PayKeen

For Glassine and Greaseproof Papers Used for the Packaging of Cookies, Cakes, Candies, and Other Foods.
Claims use since Dec. 17, 1952.

Ser. No. 649,112. Bermingham & Prosser Company, Chicago, Ill. Filed June 17, 1953. (Sec. 2f.)

STUDENT

For Notebook Filler Paper.
Claims use since May 1947.

Ser. No. 649,345. Bermingham & Prosser Company, Chicago, Ill. Filed June 25, 1953.

THE ZOO

For Pencil Tablets.
Claims use since Nov. 1, 1952.

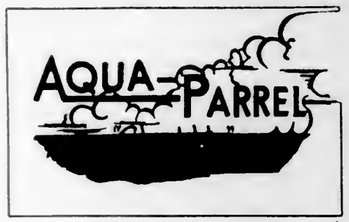
CLASS 39
CLOTHING

Ser. No. 536,362. The Fair, Chicago, Ill. Filed Oct. 1, 1947.

FAIRWAY

CONCURRENT USE with Registration No. 511,329 for the area comprising only that portion of the United States lying east of the Mississippi river, except the states of Wisconsin and Minnesota.
For Slacks for Men and Women.
Claims use since June 1, 1937.

Ser. No. 601,142. Louis E. E. Gossner, doing business as the G R Company, San Francisco, Calif. Filed July 24, 1950.



For Men's, Women's, and Children's Weatherproof Jackets and Coats, Fishermen's Waders and Wading Suits, Parkas and Coverall Suits Comprising Jackets and Trousers.
Claims use since June 1948.

Ser. No. 617,744. Carl-Morris Mfg. Inc., Boston, Mass. Filed Aug. 16, 1951.



The word "Brand" is disclaimed apart from the mark as shown. The drawing is lined for blue.
For Waist Band Overalls or Dungarees.
Claims use since Feb. 1, 1951.

Ser. No. 629,614. Mann & Bros., Inc., New York, N. Y. Filed May 13, 1952.



For Handkerchiefs.
Claims use since July 28, 1948 as shown; and since June 9, 1947 as to the outline of the clover.

Ser. No. 637,229. Alamo Manufacturing Co. Inc., New York, N. Y. Filed Oct. 27, 1952.

CALICO-QUETTE

The word "Calico" is disclaimed apart from the mark as shown.
For Cotton Dresses.
Claims use since April 1952.

Ser. No. 638,597. New England Overall Co. Inc., Boston, Mass. Filed Nov. 25, 1952.

DUNG-A-ROYS

For Dungarees.
Claims use since Sept. 18, 1952.

Ser. No. 640,172. Spence, Bryson and Company Limited, Belfast, Northern Ireland. Filed Dec. 30, 1952.

Maid of Erin

The word "Erin" is disclaimed apart from the mark shown in the drawing. Applicant claims ownership of British Registration No. 698,184, dated May 16, 1951; and United States Registration No. 545,121.
For Handkerchiefs Made in Ireland.

Ser. No. 640,424. Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y. Filed Jan. 7, 1953.



The words "Warm as a Campfire" are disclaimed, apart from the mark as shown. The persons are fanciful.
For Men's Hosiery and More Particularly Socks of Cotton, Wool, and Mixture Thereof; Wool and Wool Mixed Hunting Socks, Athletic Socks, and Slipper Socks.
Claims use since February 1952.

Ser. No. 640,755. Process Hat Corporation, New York, N. Y. Filed Jan. 14, 1953.

CARCHARIZED

For Felt Hats and Felt Hat Bodies.
Claims use since October 1952.

Ser. No. 646,217. Samuel J. Jaffe, Inc., Albany, N. Y. Filed Apr. 30, 1953.

Young albanian

For Women's Coats, Suits, Dresses, Blouses, Skirts, Sweaters, Hosiery, Lingerie, and Belts.
Claims use since Feb. 18, 1947.

Ser. No. 648,885. Saluda Corporation, New York, N. Y. Filed June 16, 1953.

WATTABOTTOM

For Men's Under Shorts.
Claims use since June 1, 1953.

Ser. No. 650,488. Car-Blair Ltd., New York, N. Y. Filed July 20, 1953.

ZIP-N-DRI

For Vinyl Plastic Coveralls.
Claims use since Apr. 23, 1953.

Ser. No. 651,528. The Opera Dress & Blouse, Inc., New York, N. Y. Filed Aug. 7, 1953.

OPERA SQUARE

For Ladies' Blouses.
Claims use since July 1, 1953.

Ser. No. 651,593. Julius Kayser & Co., New York, N. Y. Filed Aug. 10, 1953.

NYLOCRINKLE

For Gloves Made of Fabric for Women.
Claims use since June 17, 1953.

Ser. No. 651,594. Julius Kayser & Co., New York, N. Y. Filed Aug. 10, 1953.

NYLOSOFT

For Gloves Made of Fabric for Women.
Claims use since June 17, 1953.

Ser. No. 653,194. Goodman & Suss Clothes Corporation, New York, N. Y. Filed July 8, 1953.

GUANACAIRE

For Men's and Young Men's Top Coats, Sport Coats, and Overcoats.
Claims use since July 1, 1953.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 621,755. Consolidated Trimming Corporation, New York, N. Y. Filed Nov. 28, 1951.

TYPLEAT

For Pleating Tape for Draperies and Curtains.
Claims use since Nov. 6, 1951.

CLASS 41

CANES, PARASOLS, AND UMBRELLAS

Ser. No. 637,851. George Umbrella Co. Inc., New York, N. Y. Filed Nov. 4, 1952. (Sec. 2f.)

Miss George

Applicant claims ownership of Registration No. 506,353.
For Umbrellas.
Claims use since Apr. 11, 1946.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 633,799. United Elastic Corporation, Easthampton, Mass. Filed Aug. 12, 1952.

NOROL

Applicant claims ownership of Registration No. 367,129.
For Relatively Narrow Elastic Webbing.
Claims use since Apr. 28, 1938.

Ser. No. 637,382. Libbey-Owens-Ford Glass Company, Toledo, Ohio. Filed Oct. 30, 1952.

Garan FINISH

No claim is made to the word "Finish" apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 573,438 and 577,110.
For Textile Fabrics of Glass Fibers.
Claims use since on or about June 15, 1952.

Ser. No. 644,183. Milsan Mills, Inc., Lebanon, Pa. Filed Mar. 25, 1953.

NYMILON

For Piece Goods of Cotton, Silk, and Synthetic Yarns, and Combinations of Same.
Claims use since Jan. 15, 1953.

Ser. No. 644,234. A. & M. Karagheusian, Inc., New York, N. Y. Filed Mar. 26, 1953.

Cloisonné

For Textile Carpets.
Claims use since Dec. 1, 1950.

Ser. No. 644,235. A. & M. Karagheusian, Inc., New York, N. Y. Filed Mar. 26, 1953.

Coronation

For Textile Carpets.
Claims use since Nov. 13, 1938.

Ser. No. 644,236. A. & M. Karagheusian, Inc., New York, N. Y. Filed Mar. 26, 1953.

Trianon

For Textile Carpets.
Claims use since July 5, 1938.

Ser. No. 648,435. John M. Schwehm's Sons, Inc., Philadelphia, Pa. Filed June 8, 1953.

MOHAC

For Interlining Fabrics in Substantial Part of Goat Hair and Mohair Combined With Wool, Cotton, Rayon, and Synthetic Fibres.
Claims use since May 1, 1953.

Ser. No. 651,176. McCampbell & Company, Inc., New York, N. Y. Filed July 31, 1953.

GRANELLA

For Shirting Made of a Blend of Cotton and Synthetic Fibers.
Claims use since May 14, 1952.

CLASS 43

THREAD AND YARN

Ser. No. 650,402. W. Warren Thread Works, Inc., New York, N. Y. Filed July 16, 1953.

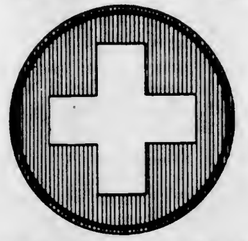
WARREN - TEE

No claim is made to the exclusive use of the surname "Warren" apart from the mark as shown on the drawing.
For Cotton, Silk, and Synthetic Sewing Threads.
Claims use since January 1953.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 613,317. The American White Cross Laboratories, Inc., New Rochelle, N. Y. Filed Apr. 30, 1951.



The drawing is lined for the color red. Applicant claims ownership of Registration No. 540,747.
For Surgical Dressings, Adhesive Plasters, Adhesive Bandage, Adhesive Tapes, Absorbent Cotton, Prepared Bandages, and Gauze Bandages for Surgical and Medical Use.
Claims use since 1912.

Ser. No. 625,472. Leon, Georges Granowski, doing business under the firm name and style of Toutain, Paris, France. Filed Feb. 25, 1952.



Applicant disclaims the word "Roller" apart from the mark as shown in the drawing. Applicant claims ownership of French Registration No. 490,795, dated Mar. 15, 1951.
For Apparatus for Medical and Orthopaedic Massages—Namely, Massaging Rollers, and Vibratory and Suction Devices.

Ser. No. 628,803. Battle Creek Equipment Company, Battle Creek, Mich. Filed Apr. 28, 1952.

RO-TRIM

No claim is made to the exclusive right to use "Ro" apart from the combination shown in the drawing.
For Therapeutic Exercising Machine Primarily Designed for Use in Sanitariums, Treatment Parlors, and Like Institutions, Said Exercising Machine Having a Frame With an Inclined Track, a Seat Movably Mounted on Such Track, an Operating Lever, Such Lever Being Pivotally Mounted on the Frame and Having a Hand-Grip Portion, and a Linkage Connecting the Lever to the Seat So That as the Lever Is Pivotally Moved the Seat Will Move in Step Therewith Lengthwise of the Inclined Track.
Claims use since Jan. 21, 1952.

Ser. No. 635,108. Wilmot Castle Company, Rochester, N. Y. Filed Sept. 10, 1952.

Castle

Applicant claims ownership of Registration No. 190,248.
For Sterilizers for Dental, Medical, and Surgical Use.
Claims use since in or about 1883 as to the mark "Castle"; and since in or about 1945 in the form shown.

Ser. No. 636,215. Eagle Druggists Supply Co. Inc., also doing business under the name of Binky Baby Products Co., New York, N. Y. Filed Oct. 6, 1952.

FRIGIES

For Water Cooled Baby Teether and Soother Made of Plastic, Filled With Distilled Water and Permanently Sealed, Used To Soothe Babies' Gums.
Claims use since Sept. 12, 1952.

Ser. No. 639,383. Medical Fabrics Co., Inc., Paterson, N. J. Filed Dec. 12, 1952.

PRESSONA

Applicant claims ownership of Registration No. 405,445.
For Medical Bandages.
Claims use since Nov. 14, 1952.

Ser. No. 640,743. Johnson & Johnson, New Brunswick, N. J. Filed Jan. 14, 1953.

TOPPER

For Surgical Dressings.
Claims use since Sept. 19, 1950.

Ser. No. 642,350. Heel-Ins, Inc., St. Albans, Vt. Filed Feb. 17, 1953.

HEEL-INS

The word "Heel" is disclaimed apart from the mark as shown in the drawing.
For Pair of Metal Plates Functioning as a Battery To Be Inserted in Shoes for the Purpose of Relieving the Pains of Arthritis, Neuritis, and the Like.
Claims use since Jan. 2, 1953.

Ser. No. 643,321. Hill Laboratories Co., Malvern, Frazer, Pa. Filed Mar. 9, 1953.

Anatomotor

For Massaging Apparatus.
Claims use since 1938.

Ser. No. 643,322. Hill Laboratories Co., Malvern, Frazer, Pa. Filed Mar. 9, 1953.

Tropidores

For Therapeutic Heat Treatment Machines.
Claims use since 1938.

Ser. No. 647,776. Hathaway Instrument Company, Denver, Colo. Filed May 27, 1953. (Sec. 2f.)

Hathaway

Applicant claims ownership of Registration No. 573,632.
For Electric Blood Pressure Heads Consisting of Pressure Sensing Diaphragms Mounted in a Hypodermic Syringe Designed for Use in the Measuring and Recording of Dynamic and Static Blood Pressure, and Blood Pressure Recording Systems Comprising a Combination of Pressure Gauges, Amplifiers, a Large Oscilloscope for Continuous Viewing, and an Oscillograph for Recording the Phenomena Under Investigation.
Claims use since September 1944.

Ser. No. 648,461. Crescent Dental Mfg. Co., Chicago, Ill. Filed June 9, 1953.

CRESCENT

Applicant claims ownership of Registration No. 96,944.
For Dental Broaches.
Claims use since Aug. 1, 1903.

Ser. No. 648,494. Joseph S. Lekowski, New York, N. Y. Filed June 9, 1953.

HYDROFOIL

The drawing is lined for silver color.
For Tinfoil Substitute for Acrylic Denture Work.
Claims use since May 1, 1953.

Ser. No. 649,051. The Pioneer Rubber Company, Willard, Ohio. Filed June 18, 1953. (Sec. 2f.)

ROLLPRUF

Applicant claims ownership of Registration No. 401,821.
For Surgeons' Gloves Made From Rubber or Rubber-Like Material.
Claims use since on or about October 1939.

Ser. No. 649,282. Harold J. Brazelton, doing business as B & J Distributing Co., Chicago, Ill. Filed June 24, 1953.

BARZ-ALL

For Ear Plugs.
Claims use since on or about May 9, 1953.

Ser. No. 649,389. Will Ross, Inc., Milwaukee, Wis. Filed June 25, 1953.

DISPADS

For Disposable Surgical Dressings, Consisting Essentially of a Plurality of Layers of Absorbent Cellulose.
Claims use since May 10, 1953.

Ser. No. 650,315. The Maico Company, Incorporated, Minneapolis, Minn. Filed July 15, 1953.

Maico

Applicant claims ownership of Registrations Nos. 361,388 and 501,908.
For Medical Acoustic Instruments.
Claims use since June 1, 1949, as to the mark shown, and since July 8, 1936, as to the mark "Maico."

Ser. No. 651,044. Flo-Bell, Inc., Yonkers, N. Y. Filed July 29, 1953.

WOC

For Cup-Shaped Appliance To Be Used for Treating Mastitis in Animals by Applying the Same to the Udder or Teats of the Animal and Subjecting Those Parts to the Flow of a Liquid of Different Temperature Than the Body Temperature of the Animal, the Liquid May or May Not Include a Disinfectant.
Claims use since July 23, 1953.

Ser. No. 651,667. North American Philips Company, Inc., New York, N. Y. Filed Aug. 11, 1953.

Norelco

Applicant claims ownership of Registrations Nos. 406,060, 406,284, and others.
For Electro-Medical Apparatus—Namely, Medical X-Ray Tubes, and X-Ray Apparatus, Including X-Ray Tables, X-Ray Tube Stands, Transformers for X-Ray Tubes, X-Ray Control Stands, and X-Ray Fluoroscopes.
Claims use since 1950.

Ser. No. 652,090. Abbott Laboratories, North Chicago, Ill. Filed Aug. 21, 1953.

PARRESINE

Applicant claims ownership of Registration No. 117,626.
For Lace-Mesh Surgical Dressing Impregnated With Pliable Paraffin.
Claims use since Aug. 3, 1953.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 640,648. Seminole Flavor Company, Chattanooga, Tenn. Filed Jan. 12, 1953. (Sec. 2f.)

DOUBLE DRY

Applicant claims ownership of Registrations Nos. 302,148, 369,889, and others.
For Carbonated Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Syrups and Extracts Used in Making the Same.
Claims use since on or about Jan. 15, 1928.

Ser. No. 643,138. Blue Anchor Beverage Company, Philadelphia, Pa. Filed Mar. 5, 1953.

BLUE

Applicant claims ownership of Registrations Nos. 177,685 and 179,115.
For Maltless Soft Drinks and Carbonated Waters.
Claims use since 1922.

Ser. No. 643,139. Blue Anchor Beverage Company, Philadelphia, Pa. Filed Mar. 5, 1953.

Blue Anchor

Applicant claims ownership of Registrations Nos. 177,685 and 179,115.
For Maltless Soft Drinks and Carbonated Waters.
Claims use since 1930.

Ser. No. 648,912. Canada Dry Ginger Ale, Incorporated, New York, N. Y. Filed June 17, 1953.

GLAMOR

For Maltless Soft Drinks.
Claims use since June 1, 1953.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 530,260. Charles G. Summers, Jr., Inc., New Freedom, Pa. Filed Aug. 1, 1947. (Sec. 2f.)

SUPERFINE

Applicant claims ownership of Registration No. 189,153.
For Canned Vegetables—Namely, Canned Peas and Carrots, Canned Beans, Canned Succotash, Canned Okra and Tomatoes, Canned Corn and Tomatoes, Canned

Tomatoes, Canned Beets, Canned Mixed Vegetables, Canned Carrots, Canned Ceci Peas, Canned Onions, Canned Corn, Canned Potatoes.
Claims use since Feb. 1, 1923.

Ser. No. 551,022. National Biscuit Company, New York, N. Y., and elsewhere throughout the United States. Filed Mar. 2, 1948.



For Bakery Products—Namely, Biscuits.
Claims use since in or about May 1924.

Ser. No. 551,025. National Biscuit Company, New York, N. Y., and elsewhere throughout the United States. Filed Mar. 2, 1948.

FIG NEWTONS

The word "Fig" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 98,178.
For Bakery Products—Namely, Biscuits.
Claims use since 1891.

Ser. No. 588,443. Oscar A. Mathews, doing business under the name and style of Mathews Products Company, Oakland, Calif. Filed Nov. 28, 1949.



The letters are lined for the color red, and the pictorial representation of the female figure is fanciful.
For Candy.
Claims use since Oct. 20, 1949.

Ser. No. 601,787. Harlee Manufacturing Company, Chicago, Ill. Filed Aug. 5, 1950.



For Ice Milk Preparation Including Milk, Butter Fat, Sugar, Milk Powder, and Gelatin, Commonly Known as Frozen Custard.
Claims use since on or about Feb. 13, 1950.

Ser. No. 609,964. Waldo L. Contreras, doing business under the name and style of Tico Taco Mexican Food Products Co., Scottsdale, Ariz. Filed Feb. 12, 1951.

TICO TACO

The word "Taco" is disclaimed apart from the Mark.
For Mexican Food: Tacos.
Claims use since May 23, 1950.

Ser. No. 616,201. Collins Chemical Co. Inc., New York, N. Y. Filed Aug. 8, 1951.

EXALTAROM

For Flavoring Preparations Principally Composed of Natural Fruit Juice in Admixture With Aldehydes and Fruit Ethers, as Ingredients of Food, for Industrial and Household Use.
Claims use since Apr. 18, 1949.

Ser. No. 630,327. Hawthorn-Mellody Farms Dairy, Inc., Chicago, Ill. Filed May 27, 1952.

HAWTHORN MELLODY
Dip

Applicant disclaims the use of the word "Dip" separate and apart from the combination shown.
For Frozen Custard.
Claims use since Feb. 7, 1952.

Ser. No. 630,930. Gulf Food Products Co., New Orleans, La. Filed June 9, 1952.

★ ★ ★
THREE STAR BRAND

The word "Brand" is disclaimed apart from the mark as a whole.
For Frozen Fresh Shrimp, Wet Pack Shrimp, and Dry Shrimp.
Claims use since in the year 1935.

Ser. No. 631,906. Vimco Macaroni Products Company, Carnegie, Pa. Filed June 27, 1952.

SALAD-MAC

Applicant disclaims the use of the word "Salad" apart from the mark as shown in the drawing.
For Macaroni.
Claims use since Jan. 15, 1952.

Ser. No. 632,200. Dijk Brand American Corp., New York, N. Y. Filed July 7, 1952.

DIJK

The word "Dijk" means "Dike" in the Dutch language.
For Cocoa and Chocolate in Powdered Form, Biscuits, Jams, Jellies, Cheese, and Rusks.
Claims use since May 18, 1952.

Ser. No. 634,236. Cerophyl Laboratories, Inc., Kansas City, Mo. Filed Aug. 21, 1952.

CEROPHYLLIN-D

The letter "D" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 367,058 and 367,566.
For Chlorophyll Derivatives in a Carrier of Dehydrated Grass Legume Meal for Use as a Feed Suppiement.

Ser. No. 634,616. V. Viviano & Bros. Macaroni Manufacturing Co., Inc., St. Louis, Mo. Filed Aug. 28, 1952. (Sec. 2f.)



The drawing is lined for the colors red and blue. The words "St. Louis" are disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 357,246 and 342,691.
For Macaroni, Spaghetti, and Egg Noodles; Frozen Prepared Spaghetti With Sauce; Canned Prepared Spaghetti; Canned Prepared Ravioli; Mushroom Sauce; and Tomato Paste.
Claims use since Mar. 1, 1944, as to the mark shown; and since Jan. 1, 1903, as to the surname "Viviano."

Ser. No. 634,987. Mead Johnson & Company, Evansville, Ind. Filed Sept. 8, 1952. (Sec. 2f as to "Mead.")



Applicant claims ownership of Registrations Nos. 173,340, 184,697, and others.
For Specially Prepared Foods for Human Use—Namely, Diet Materials for Infants and Invalids Containing Maltose and Dextrins With and Without Added Ascorbic Acid or Potassium Bicarbonate; a Food Product in Fluid Form Made From Whole Milk, Maltose, and Dextrins With Added Vitamin D Providing a Whole Milk Formula for Infants; a Food Product in Fluid Form Made From Whole Milk, Skim Milk, Maltose, and Dextrins With Added Vitamin D, Providing a High Protein, Low Fat Formula for Infants; a Spray Dried Homogenized Infant's Food Made From a Mixture of Skim Milk, Vegetable Oil, Dextrins, Maltose, Calcium Caseinate, and Vitamins A and D; a Preparation of the Casein or Protein of Milk Used to Increase the Protein of Various Diets; Specially Prepared Dried Milk; Powdered Lactic Acid Milks; Powdered Protein Milk; a Food Product for Infants, Invalids, and Adults Composed of Maltose, Dextrins, Enzymic Digest of Casein, Vegetable Oil, Arrowroot Starch, Calcium Gluconate, B Vitamins and Minerals; a Liquid Food Preparation Containing Vitamins A, D, C, Thiamine, Riboflavin, and Niacinamide in Water Dispersible Form for Addition to Milk Formulas and Other Foods; a Liquid Food Preparation Containing Vitamins A, D, and C in Water Dispersible Form for Addition to Milk Formulas and Other Foods; a Food Product in the Form of an Emulsion of Vitamins A, D, C, Thiamine, Riboflavin, and Niacinamide; a Food Product in the Form of an Emulsion of Vitamins A, D, and C; a Liquid Food Preparation Containing Ascorbic Acid in Water Dispersible Form for Addition to Milk Formulas and Other Foods; Brewers' Yeast; a Dietary Supplement Consisting of a Concentrated Solution of Ferrous Sulphate Administered in Water, Fruit, or Vegetable Juices; Food Preparation Composed of Non-Fat Milk Solids, Calcium Caseinate, Carbohydrate, and Flavoring in Powder Form To Be Added to Other Food Ingredients or Mixed With Water To Provide a Food Beverage; a Food Preparation in Powder Form Composed of Carbohydrate, Fat, Protein, Minerals and Vitamins and Characterized by a Specially Low Content of Sodium To Be Added to Other Food Ingredients or Mixed With Water To Provide a Food Beverage; Food Product in Powder Form Containing Powdered Protein Milk, Banana Powder, Dextrose, and an Enzymic Digest of Protein Useful in Preparing Special Diets; and a Food Product Consisting of an Enzymic Hydrolysate of Purified Casein.
Claims use since Oct. 23, 1951, on the mark as shown; and since 1910 on "Mead."

Ser. No. 635,178. Fine Foods, Inc., Seattle, Wash., and Minneapolis, Minn. Filed Sept. 12, 1952.

SUN GIRL

For Oleomargarine.
Claims use since July 31, 1952.

Ser. No. 635,482. The Maryland Baking Company, Baltimore, Md. Filed Sept. 19, 1952.

LUCKY CONES

The word "Cones" is disclaimed apart from the mark as shown.
For Unfilled Ice Cream Cones.
Claims use since on or about June 1, 1940.

Ser. No. 636,846. Ellis Importing Co., Philadelphia, Pa. Filed Oct. 18, 1952. (Sec. 2f.)

TASTBEST

Applicant claims ownership of Registrations Nos. 135,981 and 278,595.
For Coffee.
Claims use since during the month of January 1916.

Ser. No. 637,530. R. E. Alexander & Son, Wylie, Tex. Filed Nov. 3, 1952.



All wording shown on the drawing with the exception of the word "Gaiety" is disclaimed apart from the mark shown.

For Sacked Whole Raw Onions.

Claims use since May 24, 1952.

Ser. No. 637,649. Flavor Corporation of America, Chicago, Ill. Filed Nov. 5, 1952.



The word "Flavor" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 516,145.

For Concentrated Fruit Flavorings for Use in Baking, Confectionery, Ice Cream, Preserves, and Canned Fruit; Liquid and Dry Food Coloring; Meat Flavoring Extracts—Namely, Sausage Seasonings; Pickle Flavoring; and Extracts of Spice.

Claims use since Aug. 15, 1946.

Ser. No. 639,287. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Dec. 10, 1952.

GLUCATASE

For Glucose Oxidase-Catalase Enzyme System Used in the Processing of Foods.

Claims use since Nov. 26, 1952.

Ser. No. 639,729. Albert Wynn, doing business as Ivy Food Distributing, Bayside, N. Y. Filed Dec. 18, 1952.



The drawing is lined for red and yellow.

For Pretzels.

Claims use since Aug. 19, 1952.

Ser. No. 640,805. Rib Lake Dairy Products Co., Medford, Wis., by change of name from Rib Lake Cheese Co. Filed Jan. 15, 1953. (Sec. 2f.)

RIB LAKE

For Cheese.

Claims use since 1944.

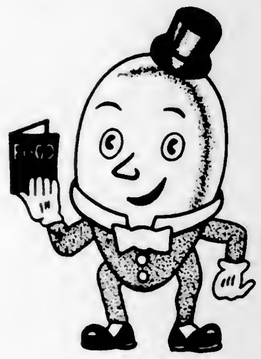
Ser. No. 640,806. Rib Lake Dairy Products Co., Medford, Wis., by change of name from Rib Lake Cheese Co. Filed Jan. 15, 1953. (Sec. 2f.)



For Cheese.

Claims use since 1944.

Ser. No. 641,413. Eggo Food Products, Inc., San Jose, Calif. Filed Dec. 20, 1952.



Applicant claims ownership of Registration No. 329,683.

For Frozen Waffles.

Claims use since about November 1944.

Ser. No. 641,995. The U. & J. Lenson Corp., Brooklyn, N. Y. Filed Feb. 9, 1953.

TALISMAN

For Coffee and Tea.

Claims use since Jan. 8, 1941.

Ser. No. 642,034. Sylvan Seal Milk, Inc., Philadelphia, Pa. Filed Feb. 10, 1953.

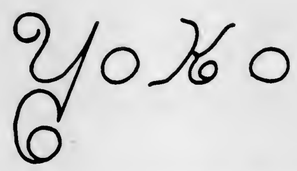


The drawing is lined for the color red, but no claim as to color is made. Applicant claims ownership of Registration No. 305,229.

For Dairy Products—Namely, Fluid Milk, Buttermilk, Chocolate-Flavored Milk, Cream, Sour Cream, Eggnog (Non-Alcoholic), Yogurt, Cottage Cheese, Cream Cheese, and Ice Cream.

Claims use since Jan. 26, 1953.

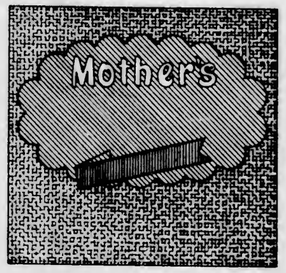
Ser. No. 642,484. Roy E. Miller, Danville, Ill. Filed Feb. 19, 1953.



For Egg Composition Comprising an Egg Supplement Consisting of Powdered Egg Yolk, Sugar, Albumen, Vegetable Gums, Cereal, and Fruit Acids, Used in Commercial Baking To Replace Fresh and Frozen Eggs.

Claims use since Dec. 14, 1951.

Ser. No. 642,982. Mother's Food Products, Inc., Newark, N. J. Filed Mar. 2, 1953.



The drawing is lined for the colors green, yellow, and red. The yellow background shown in the drawing is disclaimed. Applicant claims ownership of Registrations Nos. 540,298, 552,693, and others.

For Oleomargarine.

Claims use since on or about Feb. 13, 1953.

Ser. No. 643,843. Kellogg Company, Battle Creek, Mich. Filed Mar. 18, 1953.

The Sweetheart of the Corn

Applicant claims ownership of Registration No. 106,623.

For Cereal Breakfast Foods.

Claims use since about October 1907.

Ser. No. 644,025. Food Products Corporation, Kansas City, Mo. Filed Mar. 23, 1953.

SUN-LAC

The word "Lac" is disclaimed apart from the mark as shown.

For Ingredients for Enriching Bread, Rolls, and Buns Containing Vitamin D Compound With the Admixture of Other Food Ingredients Including Milk Serum Solids, Cereal Flours, and Mineral Salts.

Claims use since May 27, 1952.

Ser. No. 644,304. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

ARTCRAFT

Applicant claims ownership of Registration No. 244,766.

For Wheat Flour.

Claims use since July 12, 1927.

Ser. No. 644,307. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

CINDERELLA

Applicant claims ownership of Registration No. 61,906.

For Wheat Flour.

Claims use since Dec. 1, 1901.

Ser. No. 644,312. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

MINUTE MAN

Applicant claims ownership of Registration No. 81,767.

For Wheat Flour.

Claims use since June 8, 1910.

Ser. No. 644,313. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

POLAR STAR

Applicant claims ownership of Registration No. 192,407.

For Wheat Flour.

Claims use since 1890.

Ser. No. 644,315. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

RED DRAGON

Applicant claims ownership of Registration No. 92,820.
For Wheat Flour.
Claims use since July 2, 1912.

Ser. No. 644,316. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

Silver mist

Applicant claims ownership of Registration No. 322,873.
For Wheat Flour.
Claims use since March 1914.

Ser. No. 645,249. L. P. Maggioni & Company, Savannah, Ga. Filed Apr. 14, 1953.

SEA ZONE

No exclusive claim is made to the word "Sea" apart from the mark shown on the drawing.
For Canned, Fresh, and Frozen Shell Fish.
Claims use since Feb. 20, 1935.

Ser. No. 645,489. H. W. Mann, Salinas, Calif. Filed Apr. 17, 1953.

SUNNY SHORES

For Fresh Vegetables.
Claims use since 1939.

Ser. No. 646,088. Yakima Fruit & Cold Storage Co., Yakima, Wash. Filed Apr. 28, 1953.

Shillelagh



For Fresh Apples.
Claims use since November 1952.

Ser. No. 646,464. B. E. Day Packing Co., Salinas, Calif. Filed May 5, 1953.

SUPER CHIEF

For Fresh Vegetables.
Claims use since May 1949.

Ser. No. 647,299. Joseph Kirsh, doing business as Empire State Flour Co., New Haven, Conn. Filed May 19, 1953.

KIRJO

For Bran-Free Wheat Germ Cereal for Human Consumption.
Claims use since on or about May 8, 1953.

Ser. No. 647,616. Glade Candy Co., Salt Lake City, Utah. Filed May 25, 1953.

Guest of honor

The drawing is lined for the color red.
For Chocolates.
Claims use since on or about Mar. 20, 1953.

Ser. No. 647,649. Pacific Gamble Robinson Co., doing business as Pacific Fruit & Produce Co., Seattle, Wash. Filed May 25, 1953.

SEAIR

For Fresh Vegetables.
Claims use since Sept. 21, 1927.

Ser. No. 648,175. The Huron Milling Company, Harbor Beach, Mich. Filed June 3, 1953.

LUXOR

Applicant claims ownership of Registration No. 572,523.
For Food Seasoning Composed Principally of Hydrolyzed Vegetable Protein.
Claims use since January 1952.

Ser. No. 648,318. Irving Mischer, doing business as Sheldon Fine Foods Company, Brooklyn, N. Y. Filed June 5, 1953.

"MA" SUSAN RECIPE

The mark is fanciful and identifies no particular individual. The word "Recipe" is disclaimed from the mark as shown.
For Dehydrated Soups and Soup Mixes.
Claims use since May 27, 1953.

Ser. No. 648,583. Berje Chemical Products, Inc., New York, N. Y. Filed June 11, 1953.

BERJEYEN

For Food Seasoning Powder, Containing Lactose, Monosodium Glutamate, Salt, Sugar, Celery, Onion, and Garlic.
Claims use since May 19, 1953.

Ser. No. 648,585. Burrus Mills, Incorporated, doing business under the name and style of Liberty Mills, San Antonio, Tex. Filed June 11, 1953.

MOCAMO 1/4

QUARTER HORSE FEED

No claim is made to the words "Quarter Horse Feed" or to the fraction "¼."
For Feed Containing Grains, Minerals, and Vitamins Particularly Suitable for Horses and Calves.
Claims use since Mar. 27, 1953.

Ser. No. 648,970. Edwin L. Thoma, River Forest, Ill. Filed June 17, 1953.

5 WAY

For Ingredients for Making Instant Coffee With or Without Cream and Sugar, Consisting of a Container Having One Cup Portions of Powdered Instant Coffee, Powdered Cream, and Sugar, Each Individually Wrapped Within the Container.
Claims use since June 10, 1953.

Ser. No. 649,045. Robert S. Wolf, doing business under the name and style of Holiday Frosted Food Co., Philadelphia, Pa., also known as Holiday Frosted Foods. Filed June 18, 1953.



The lining appearing on the drawing represents actual lines which are a part of the trade-mark and are not intended to indicate color.
For Frozen Meats—Namely, Beefsteaks, Ground Beef, Beef Liver, Pork Chops, and Veal Cutlets.
Claims use since on or about March 1951.

Ser. No. 649,142. Frazar & Company Inc., New York, N. Y. Filed June 22, 1953.

MIKADO

For Canned Crab Meat.
Claims use since June 3, 1953.

Ser. No. 649,235. Koninklijke Verkade Fabrieken N. V., Zaandam, Netherlands. Filed June 23, 1953.



VERKADE

Applicant claims ownership of Dutch Registration No. 85,191, dated Aug. 23, 1946; and United States Registration No. 528,151.
For Mochasticks—a Kind of Sweet Biscuit With Chocolate, Having a Mocha Flavor, in the Form of Sticks, Chocolate in Bars, Chocolate Drops, Biscuits, Bonbons, Candy, Honeycake, Toffees, Rusks.

Ser. No. 650,365. A. Giurlani & Bro., San Francisco, Calif. Filed July 16, 1953.



For Olive Oil, Canned Vegetables, Olives, Cheese, Pickles, Vinegar, and Canned Dried and Frozen Fish, Tomato Paste, and Tomato Puree.
Claims use since Feb. 2, 1952.

Ser. No. 650,412. B. & B. Enterprises, Inc., Chicago, Ill. Filed July 17, 1953.

T.V. TIME

Applicant claims ownership of Registration No. 553,867.
For Raw Popcorn, Popping Oil, and Chocolate Covered Popcorn.
Claims use since May 17, 1950.

Ser. No. 650,660. Vineland Farmers Union Egg Producers Cooperative, Inc., Vineland, N. J. Filed July 22, 1953. COLLECTIVE MARK.

VINE-CO

For Shell Eggs.
Claims use since Mar. 31, 1951.

Ser. No. 650,730. Ritter-Price Co., Inc., Los Angeles and Stockton, Calif. Filed July 23, 1953.



For Fresh Vegetables.
Claims use since Apr. 15, 1949.

Ser. No. 652,598. J. G. Bisbee, Tehachapi, Calif. Filed Sept. 1, 1953. (Sec. 2f.)

T-HACHIA-P

For Fresh Deciduous Fruits.
Claims use since August 1931.

Ser. No. 653,572. Hitchcock Packing Co., Inc., Salinas, Calif. Filed Sept. 22, 1953.

MITT

For Lettuce.
Claims use since October 1951.

CLASS 47

WINES

Ser. No. 583,788. John Harvey & Sons, Ltd., Bristol, England. Filed Aug. 16, 1949. (Sec. 2f.)

HARVEY'S

Applicant claims ownership of Registrations Nos. 281,798, 302,145, and 306,426.
For Sherry and Port Wines.
Claims use since 1934 in Great Britain; and first used in commerce between Great Britain and the United States in 1900.

Ser. No. 608,241. Dubonnet Wine Corporation, New York, N. Y. Filed Dec. 30, 1950. (Sec. 2f as to "Dubonnet.")

DUBONNET BLONDE

The word "Blonde" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 119,580 and 319,695.
For Aperitif Wine.
Claims use since 1950 on the mark as shown; and since 1893 on the word "Dubonnet."

Ser. No. 626,766. L. Vaudable, Paris, France. Filed Mar. 20, 1952.

MAXIM'S

For Wines.
Claims use since 1907; and use in commerce between France and the United States since June 1935.

Ser. No. 634,824. Romeo Battistoni, doing business under the name and title Italian and French Wine Co., Buffalo, N. Y. Filed Aug. 22, 1952.

Old Friar

The word "Old" is disclaimed apart from the mark as shown.
For Still Wines.
Claims use since Dec. 7, 1933.

Ser. No. 636,905. Societe Anonyme Maison Deutz & Geldermann, Ay (Marne), France. Filed Oct. 20, 1952. (Sec. 2f.)



Champagne Deutz

No claim is made to the wording "Champagne," "Brut," and "Maison Fondee in 1838." Applicant claims ownership of United States Registrations Nos. 548,047, 96,518, and 96,143.
For Champagne.
Claims use since 1838 in France; and first used in commerce between France and the United States in 1883.

Ser. No. 646,434. Schenley Industries, Inc., doing business as Cresta Blanca Wine Company, New York, N. Y. Filed May 4, 1953.

DRY WATCH

No claim is made to the word "Dry" apart from the mark shown in the drawing.
For Wines.
Claims use since May 9, 1946.

Ser. No. 650,266. J. L. Milani, doing business as Milani Import & Export Co., Hollywood, Calif. Filed July 14, 1953.

ANNABELLA BRAND

The word "Brand" is disclaimed apart from the mark as shown.
For Wines.
Claims use since November 1950.

Ser. No. 651,164. Ellena Brothers, Etiwanda, Calif. Filed July 31, 1953.

Wedding Party

For Wines.
Claims use since Apr. 29, 1953.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 588,889. Schenley Industries, Inc., New York, N. Y. Filed Dec. 6, 1949. (Sec. 2f.)

DONIGAN'S

For Crystallized Rock and Rye Liqueur.
Claims use since June 1, 1937.

Ser. No. 633,976. The Foster Trading Corporation, doing business as T. W. Samuels Distillery, Deatsville, Ky. Filed Aug. 15, 1952.

Mr. Bourbon

No exclusive claim is made to the word "Bourbon" apart from the mark as shown on the drawing.
For Bourbon Whiskey.
Claims use since June 15, 1952.

Ser. No. 634,825. Romeo Battistoni, doing business under the name and title Italian and French Wine Co., Buffalo, N. Y. Filed Aug. 22, 1952.

Old Friar

The word "Old" is disclaimed apart from the mark as shown.
For Whiskey, Gin, and Brandy.
Claims use since Dec. 7, 1933.

Ser. No. 641,678. Greenbros, Inc., Cincinnati, Ohio. Filed Feb. 3, 1953.



The portrait forming the subject of this application is fanciful and of no living individual.
For Alcoholic Blackberry Cordial.
Claims use since Sept. 5, 1952.

Ser. No. 645,891. Hepburn & Ross Limited, Kelvinbridge, Glasgow, Scotland. Filed Apr. 24, 1953.



No exclusive claim is made to the words "Hepburn and Ross" apart from the mark as shown on the drawing.
For Scotch Whiskey.
Claims use since Apr. 15, 1920; and first used in commerce between Great Britain and the United States on Jan. 10, 1934.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 609,441. Evans Case Co., North Attleboro, Mass. Filed Jan. 31, 1951.



For Compacts Having Powder Therein.
Claims use since May 1949.

Ser. No. 624,084. William Z. Goodman, doing business under the name of William Zachary Company, Newton Centre, Mass. Filed Jan. 25, 1952.

Saytoo
C'est Tout

The English equivalent of the expression "C'est Tout" is "That is all."

For Hand Cream.

Claims use since Apr. 26, 1951.

Ser. No. 631,939. N. V. Drogerijen Maatschappij, Rotterdam and Mijdrecht near Amsterdam, Netherlands. Filed June 28, 1952.

néokrin

Applicant claims ownership of Dutch Registration No. 70,372, dated Nov. 2, 1936.

For Perfumed Waters, Perfumes, Lotions and Preparations for the Care of the Hair—Namely, Hair Tonic Lotion, Brilliantine, Hair Cream, and Hair Oil.

Ser. No. 631,972. Arrow-Products, Cleburne, Tex. Filed June 30, 1952.



The design of the trade-mark is an arrowhead of the type used by our own American Indians.

For Hand Cleaner Creme.

Claims use since May 24, 1952.

Ser. No. 639,916. Joe W. Bailey, doing business under the name Bailey Laboratories, Buffalo, N. Y. Filed Dec. 23, 1952.

KORLY Q

For Preparation for Setting the Hair, Conditioning the Scalp, and Treatment of Dandruff.

Claims use since Oct. 2, 1950.

Ser. No. 640,170. Rimmel, Inc., New York, N. Y. Filed Dec. 30, 1952.

Gentleman's Choice

Apart from the combination "Gentleman's Choice," the word "Gentleman's" is disclaimed.

For After Shave Lotion, Talcum Powder, Eau de Cologne, Shaving Cream, and Personal Deodorants.

Claims use since Nov. 5, 1952.

Ser. No. 643,935. Elizabeth Arden Sales Corporation, New York, N. Y. Filed Mar. 20, 1953.

Elizabeth Arden's
Ardena Flower Powder

The words "Flower Powder" are disclaimed apart from the mark as shown. Consent of "Elizabeth Arden" is of record. Applicant claims ownership of Registrations Nos. 153,598, 185,807, 355,303, and 501,507.

For Toilet Powder.

Claims use since June 6, 1920.

Ser. No. 645,581. Mattay, Inc., Philadelphia, Pa. Filed Apr. 20, 1953.

Sachets by Mattay



No claim is made to the word "Sachets" or the representation of the goods apart from the mark as shown.

For Sachets.

Claims use since on or about Sept. 10, 1951, on the mark as shown; and since October 1937 as to the term "Mattay."

Ser. No. 645,795. Eugene Frezzati, Paris (Seine), France. Filed Apr. 23, 1953.

Mademoiselle
de
Paris

No claim is made to the word "Paris" apart from the mark as shown. Applicant claims ownership of French Registration No. 417,597, dated Jan. 31, 1952.

For Perfumes.

Ser. No. 646,276. Delagar Products, Inc., New York, N. Y. Filed May 1, 1953.

heluan

For Nail Polish Remover.

Claims use since on or about Jan. 15, 1953.

Ser. No. 647,005. Jacques Heim, Paris, France. Filed May 14, 1953.

JACQUES HEIM

The trade-mark consists of the name "Jacques Heim" and the representation of a fox head.

For Perfume, Cologne, Toilet Water, Lipstick, Rouge, Eyeshadow, Face Powder, and Dusting Powder.

Claims use since Aug. 1, 1944; and since Aug. 7, 1944, in commerce between foreign nations and the United States.

Ser. No. 649,434. Maison de Lupo's, Inc., Brooklyn, N. Y. Filed June 26, 1953.

Royal Touch

For Perfumes.

Claims use since on or about June 11, 1953.

Ser. No. 649,824. Rejuvia Beauty Laboratories, Inc., New York, N. Y. Filed July 3, 1953.

TRIPLE STAY

For Lipsticks.

Claims use since June 19, 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 615,512. Wyandotte Chemicals Corporation, Wyandotte, Mich. Filed June 21, 1951.

SALUTE

For Washing Compound for Food and Beverage Dispensing and Handling Utensils, Such as Dishes, Glasses, Silverware, and Plasticware.

Claims use since Apr. 25, 1951.

Ser. No. 629,837. Cee-Bee Chemical Co., Inc., Los Angeles, Calif. Filed May 17, 1952.

CEE BEE

For Aircraft Surface Cleaner, Steam Cleaning Machine Compound, Machine Cleaning Compound, Chassis and Motor Cleaner, Brightener for Removing Oxidation or Corrosion From Aluminum Surfaces, Corrosion Remover and Brightener, Pre-Paint Components Used as Metal Conditioners, Primarily for Removing Rust, Stains, and the Like, Paint Removers for Aluminum Surfaces: Cresylic and Non-Cresylic Paint Removers, Paint Removers for Aluminum Etched Surfaces, Spot Removers, Solutions for Stripping Integral Fuel Tanks, Fill-and-Drain Fuel Cell Strippers and Desealers, Brush-On Desealers, Spray-On Desealers, Recirculating Spray Desealers, Engine Cleaners, Orthodichlorobenzine Type Carbon Removers, Cold Carbon Removers and Clutch Cone Gear Cleaners, Carburetor and Parts Cleaners, Grease Solvents, Rust Removers, Rust and Oxide Removers, Descalers and Coil Cleaners, Ferrous Metal Cleaners, Plating Compound Cleaners, Steel Cleaners, Plater's Cleaners for Non-Ferrous Metals, and Cleaners for Die Castings.

Claims use since June 3, 1931.

Ser. No. 633,377. The Pure Oil Company, Chicago, Ill. Filed Aug. 1, 1952.

Pure-sure

For Cleaner for Pigmented Sidewalls of Vehicular Rubber Tires, Particularly White Pigmented Sidewalls.

Claims use since on or about May 1952.

Ser. No. 636,594. Helper Paint Removing Service, Inc., Cleveland, Ohio. Filed Oct. 14, 1952.

helperize
PAINT REMOVING
COMPOUND

The descriptive words "Paint Removing Compound" are disclaimed apart from the mark shown on the drawing. The drawing is lined for the colors red and blue.

For Paint Removing Compounds.

Claims use since Jan. 16, 1950.

Ser. No. 638,412. Fabergé, Inc., New York, N. Y. Filed Nov. 21, 1952.

ACT
IV

Applicant claims ownership of Registration No. 562,199.

For Soap.

Claims use since September 1951.

Ser. No. 640,955. The North American Mogul Products Company, Cleveland, Ohio. Filed Jan. 19, 1953.



MOGUL

Applicant claims ownership of Registrations Nos. 225,383, 363,078, and others.

For Compounds for the Eradicating and Removing of Rust, Scale, Carbon Deposit, Soot Formation, Corrosion, Pitting, Foaming, Priming, Sludge Formation, Algae Formation, Discoloration, and Congestion in Boilers, Furnaces, Hot and Cold Water Supply Systems, Heating Systems, Heat Exchangers, Steam Lines, Return Lines, Pasteurizers, Sterilizers, Bottle Washers, Humidifiers, Compressors, Ice Machines, After-Coolers, Inter-Coolers, Air-Conditioners, Cooling Systems, Cooling Towers, Refrigeration Systems, Brine Tanks, Pipes and Coils, Diesel Engines, Condensers, Fuel Oil Tanks, Pre-Heater Coils, Burner Heads and All Other Equipment in Which Water and/or Steam and Fuel Are Utilized.

Claims use since on or about Jan. 1, 1937.

Ser. No. 641,129. The C. B. Dolge Company, Westport, Conn. Filed Jan. 22, 1953.

SURFACTIN

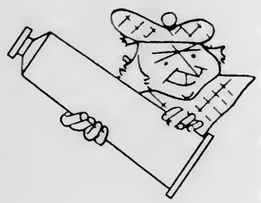
For Synthetic Detergent—Namely, a General Purpose Industrial and Institutional Cleaner for Hard Surfaces Such as Floors, Walls, Metal, and Glass.
Claims use since Oct. 1, 1952.

Ser. No. 641,409. A. L. Wilson Chemical Company, Kearny, N. J. Filed Jan. 27, 1953.

DroGo

For Volatile Dry Spotter.
Claims use since Jan. 2, 1953.

Ser. No. 644,601. Clyde Chemical Co., Phenix, R. I. Filed Apr. 2, 1953.



Exclusive use of the representation of a tube is disclaimed.
For Detergent for Household Use.
Claims use since Dec. 17, 1952.

Ser. No. 645,852. The Wolcott Company, Hartford, Conn. Filed Apr. 23, 1953.

Wolco

Applicant claims ownership of Registration No. 564,241.
For Cleaning Compound for Cleaning Stoves and Ovens.
Claims use since Feb. 13, 1953.

Ser. No. 646,597. Warren A. Betterly, doing business as M. A. E. Co., Fall River, Mass. Filed May 7, 1953.



For General All-Purpose Cleaner in Solid (Non-Liquid) Form of a Powder for Household, Industrial, Institutional, and Other Places of Use.
Claims use since on or about Mar. 15, 1950.

Ser. No. 649,636. E. F. Drew & Co., Inc., New York, N. Y. Filed July 1, 1953.

GRIPON

For Liquid Detergent for General Cleaning Purposes.
Claims use since Aug. 26, 1952.

Ser. No. 649,871. Combined Chemicals Corporation, New York, N. Y. Filed July 6, 1953.

Shampill

For Hair Shampoo.
Claims use since July 1, 1953.

Ser. No. 649,873. Dusorb Sales Corporation, Shenandoah, Iowa. Filed July 6, 1953.

for

For Cleaning Fluid for Walls, Woodwork, Upholstery, Rugs, and All Fabrics.
Claims use since June 1, 1951.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 623,759. Goodwill Industries of America, Inc., Washington, D. C. Filed Jan. 18, 1952.



For Philanthropic Services Rendered to Handicapped Persons Whereby They Receive Medical Treatment, Recreation, Rehabilitation, Opportunity for Employment, Counseling and Guidance in Religious Activities.
Claims use since Dec. 11, 1950.

Ser. No. 623,760. Goodwill Industries of America, Inc., Washington, D. C. Filed Jan. 18, 1952.



For Philanthropic Services Rendered to Handicapped Persons Whereby They Receive Medical Treatment, Recreation, Rehabilitation, Opportunity for Employment, Counseling and Guidance in Religious Activities.
Claims use since Oct. 27, 1950.

Ser. No. 628,857. Horton & Converse, Los Angeles, Calif. Filed Apr. 29, 1952.

MICRO-SCRIPTION

Applicant claims ownership of Registration No. 424,740.
For Pharmacists' Services in Filling Doctors' Prescriptions.
Claims use since Dec. 19, 1951.

Ser. No. 642,984. National 4-H Club Foundation of America, Inc., Wilmington, Del., and Washington, D. C. Filed Mar. 2, 1953.



For Sponsoring and Conducting Visits of Groups of Foreign Youth to the United States and the Sponsoring and Conducting of Visits of American Farm Youth to Foreign Countries in Furtherance of Disseminating Agricultural Information and Promoting International Good Will.
Claims use since 1951.

Ser. No. 643,810. American Association of Nurserymen, Inc., Washington, D. C. Filed Mar. 18, 1953. COLLECTIVE MARK. (Sec. 2f.)



For Landscape Designing; Transplanting; Planting of Shrubs, Trees, and Plants; and Trimming.
Claims use since Oct. 6, 1947.

Ser. No. 644,559. The Lummus Company, New York, N. Y. Filed Apr. 1, 1953. (Sec. 2f as to "Lummus.")



The representation of the chemical plant is disclaimed apart from the mark as shown. The drawing is lined for green and gray. Applicant claims ownership of Registrations Nos. 373,267, 520,899, and others.
For Development of Chemical and Petroleum Refining Processes and the Designing of Chemical Plants and Petroleum Refining Process Units for Others.
Claims use since January 1951 on the mark as shown; and since 1913 on the word "Lummus."

Ser. No. 648,778. S. John Nitta, doing business as American Chick Sexing Association, Lansdale, Pa. Filed June 15, 1953. (Sec. 2f.)

American

For Determining the Sex of Chicks and Poults for Hatcheries.
Claims use since in or about 1937.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 600,932. U. O. Colson Company, Paris, Ill. Filed July 19, 1950.

AD-SURANCE* for AMERICAN BUSINESS

For Advertising Services—Namely, the Formulation and Preparation of Formats, Charts, Displays, and Trade Exhibits and the Printing and Lithographing of Advertising Material.
Claims use since May 6, 1950.

Ser. No. 629,171. Keystone Broadcasting System, Inc., Chicago, Ill. Filed May 3, 1952.

HOME TOWN AND RURAL AMERICA

For Selling Advertising Time on Radio Broadcasting Stations Affiliated With the Applicant, Preparing or Having Prepared for, and/or Distributing to Said Stations for Broadcast Therefrom Programs in Behalf of Advertisers or for Sustaining Purposes, Preparing or Having Prepared for, and/or Distributing to Said Stations Transcriptions and/or Scripts for Use by Said Stations as Part of Said Programs.
Claims use since December 1951.

Ser. No. 641,852. Market Research Corporation of America, Chicago, Ill. Filed Feb. 6, 1953.

NATIONAL

CONSUMER

PANEL

Applicant claims ownership of Registration No. 420,210.
For Gathering Information From Individuals and Families as to the Nature and Extent of Their Purchases of Various Commodities and of Particular Brands of Such Commodities, and Furnishing Periodical Reports and Analyses of Such Information to Subscribers.
Claims use since Nov. 1, 1941.

Ser. No. 644,223. Bertram H. Claster, Baltimore, Md. Filed Mar. 26, 1953.

THE ROMPER ROOM

For Advertising the Goods and Services of Sponsors Through the Medium of a Television Program in the Nature of a Musical and Home Audience Participation Program.
Claims use since Feb. 9, 1953.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 610,990. Rhode Island Community Chests, Inc., Providence, R. I. Filed Mar. 7, 1951.



For Collecting and Distributing Funds for Health and Welfare Agencies.
Claims use since August 1950.

Ser. No. 635,164. Acceptance Finance Company, St. Louis, Mo. Filed Sept. 12, 1952.



The words "Reddy Cash" are disclaimed apart from the mark as shown.
For Making Personal Loans, Co-Maker Loans, Automobile Loans, and Furniture Loans.
Claims use since Aug. 15, 1952.

Ser. No. 638,966. Marquette National Bank of Minneapolis, Minneapolis, Minn. Filed Dec. 4, 1952.



For Banking Services—Namely, Maintaining Checking and Savings Accounts; Making Collections; Selling Travelers' Cheques; Selling Money Orders; Making Loans Including Mortgage, Commercial, Life Insurance, Personal, Automobile, and Home Improvement Loans; Buying and Selling Stocks and Bonds; Rendering Trust Services; and Making Transfer of Funds Within the United States and to and From Foreign Countries.
Claims use since Oct. 21, 1950.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 643,404. Car Care Club, Inc., Philadelphia, Pa. Filed Mar. 10, 1953.



No registration rights are claimed herein for the name "Car Care Club, Inc." apart from the mark as a whole.
For Maintenance and Repair of Automotive Equipment.
Claims use since Feb. 16, 1953.

Ser. No. 643,524. Car Care Club, Inc., Philadelphia, Pa. Filed Mar. 10, 1953.

CCC

For Maintenance and Repair of Automotive Equipment.
Claims use since Feb. 16, 1953.

Ser. No. 643,665. Dowell Incorporated, Tulsa, Okla. Filed Mar. 16, 1953.

FIXAFRAC

For Well Treating Services—Namely, Combined Plugging and Fracturing of Earth Formations.
Claims use since Dec. 4, 1952.

CLASS 106

MATERIAL TREATMENT

Ser. No. 621,556. Indian Orchard Finishing Co., Inc., Indian Orchard, Mass. Filed Nov. 23, 1951.

ENTOR

For Pre-Shrinking, Setting, and Dyeing Knitted Fabrics Except Fabrics Made of Silk, Rayon, or Acetate and Supplied by Others to the Applicant for the Purpose Aforesaid.
Claims use since June 1, 1950.

Ser. No. 647,163. Consolidated Cooling Corporation, San Francisco, Calif. Filed May 18, 1953.



The drawing is lined for red.
For Pre-Cooling Fresh Fruits and Vegetables.
Claims use since Apr. 20, 1953.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 627,931. Louis G. Cowan, Incorporated, New York, N. Y. Filed Apr. 11, 1952.

down you go

For Entertainment Service in the Nature of a Radio and Television Panel-Quiz Program.
Claims use since May 23, 1951.

Ser. No. 647,558. Roy Y. Steffens, Palo Alto, Calif. Filed May 22, 1953.

CAPTAIN Z-RO

For Entertainment Service Rendered Through the Medium of Television Broadcast Programs Consisting of a Series of Dramatic Presentations.
Claims use since Aug. 28, 1951.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

585,368. Feeds for Stock, Hogs, and Poultry. Dannen Mills, Inc., St. Joseph, Mo.
Filed Dec. 10, 1947, Serial No. 543,902. Published Nov. 10, 1953. Class 46.

585,369. Synthetic Detergent for General Industrial Use. Armour & Company, Chicago, Ill.
Filed Jan. 31, 1948, Serial No. 548,469. Published Nov. 10, 1953. Class 52.

585,370. Kitchen and Table Knives, Forks, and Spoons, Made of Base Metal. Ekco Products Company, Chicago, Ill.
Filed Mar. 11, 1948, Serial No. 551,703. Published July 28, 1953. Class 23.

585,371. CONSOLIDATED CERTIFICATE. Manning, Maxwell & Moore, Incorporated, Stratford, Conn.

Valves—Namely, Safety, Relief, Globe, Angle and Gate Valves; and Parts Thereof—Namely, Bases, Bushings, Feathers, Spindles, Compression Screws, Springs, Discs, Disc Guides, Metallic Washers, Discharge Elbows and Mufflers. Filed Dec. 1, 1951, Serial No. 621,974. Published Oct. 14, 1952. Class 13.

Material Handling Equipment—Namely, Overhead, Traveling, Floor, Jib, Portable and Gantry Cranes; Hand and Power Operated Hoists; Electrical and Mechanical Crane and Hoist Components, Accessories and Attachments—Namely, Gears, Cable Reels, Hydraulic Brakes, Chain Blocks, Crane Trolleys, Crane Trucks and Gantry A Frames; and Railway Drop Pit Tables, Railway Transfer Tables and Railway Car Body Supports. Filed Dec. 1, 1951, Serial No. 621,975. Published Mar. 3, 1953. Class 23.

Indicating and Recording Pressure and Vacuum Gauges; Liquid Level Gauges; Fluid Flow Gauges; Combination Regulator Switches and Pressure or Vacuum Gauges; Expanding Fluid-Type Temperature Regulators; Diaphragm-Type Fluid Pressure Regulators; Thermometers; and Switches, Relays, Limiters, Indicators, Gauges, Selectors, Detectors, Transmitters, Amplifiers, Converters, and Transformers Incorporating an Electro-Mechanical Balance and Sold as a Unit. Filed June 30, 1948, Serial No. 560,491. Published Feb. 3, 1953. Class 26.

585,372. Synthetic Resins for Use in Restorative Dentistry Such as the Preparation of Artificial Dentures, False Teeth, and Related Articles in the Dental Profession. Kay See Dental Mfg. Co., Kansas City, Mo.
Filed Aug. 29, 1949, Serial No. 584,199. Published Feb. 12, 1952. Class 44.

585,373. Fitted Canvas Cover for Tractors. Mason City Tent and Awning Co., Mason City, Iowa.
Filed Oct. 14, 1949, Serial No. 586,293. Published July 28, 1953. Class 23.

585,374. Porous Paper Bags for Filtering and Collecting Dust in Vacuum Cleaners. Edwin D. Foster, New York, N. Y.
Filed Oct. 20, 1949, Serial No. 586,596. Published Oct. 6, 1953. Class 31.

585,375. Machine Tools—Namely, Thread Millers and Parts Thereof. The Lees-Bradner Company, Cleveland, Ohio.
Filed Nov. 5, 1949, Serial No. 587,387. Published July 21, 1953. Class 23.

585,376. Candy. Williamson Candy Company, Chicago, Ill.
Filed Dec. 30, 1949, Serial No. 590,207. Published Apr. 8, 1952. Class 46.

585,377. Liquors Containing an Extract of Juniper Berries in an Alcoholic Solution, With Sugar Added. Fratelli Rossi, Asiago, Italy.
Filed Apr. 1, 1950, Serial No. 595,095. Published Nov. 3, 1953. Class 49.

585,378. Components of Refrigerator Cabinets Molded From Plastic Material. Ionia Manufacturing Company, Ionia, Mich.
Filed Apr. 19, 1950, Serial No. 595,961. Published Nov. 3, 1953. Class 31.

585,379. Farm Implements—Namely, Rigid Shank Cultivators, Etc. Pittsburgh Forgings Company, Coraopolis, Pa.
Filed May 31, 1950, Serial No. 598,387. Published July 21, 1953. Class 23.

585,380. Chili Comprising Ground Cut Beef, Beef Suet, Salt, Pork, Water, Spice, Dried Skim Milk, and Other Ingredients, All in Link Form. Hex Foods, Inc., Kansas City, Mo.
Filed July 24, 1950, Serial No. 601,147. Published Nov. 3, 1953. Class 46.

585,381. Mint Candy. The D. L. Clark Company, Pittsburgh, Pa.
Filed Sept. 15, 1950, Serial No. 603,573. Published Nov. 3, 1953. Class 46.

585,382. Condenser Tube, Made of Copper and Aluminum and Integral Finned Tube. Calumet and Hecla Consolidated Copper Company, Calumet, Mich.
Filed Oct. 23, 1950, Serial No. 605,296. Published Nov. 10, 1953. Class 34.

585,383. Varnishes for Interior and Exterior Purposes. De Soto Paint & Varnish Co., Memphis, Tenn.
Filed Oct. 31, 1950, Serial No. 605,646. Published Nov. 3, 1953. Class 16.

585,384. Electrical Disintegrators and Mixers for Producing Fluid Substances From Solid Foods and Other Organic Matter and for Intermixing Fluids. Waring Products Corporation, New York, N. Y.
Filed Nov. 17, 1950, Serial No. 606,582. Published Oct. 13, 1953. Class 21.

585,385. Radiant Base Panel Heating Units for Space Heating Systems and Parts Thereof. Turbo-Ray, Inc., New Rochelle, N. Y.
Filed Jan. 12, 1951, Serial No. 608,723. Published Nov. 10, 1953. Class 34.

585,386. Wines. Tomas Rivero y Hermanos S. L., Cádiz, Spain.
Filed Jan. 13, 1951, Serial No. 608,771. Published Nov. 10, 1953. Class 47.

585,387. Fruit-Flavored, Non-Alcoholic Maltless Syrups, Concentrates, and Extracts Used in Mixing Non-Alcoholic Drinks. Bo-Mar Products, Inc., Union City, N. J.
Filed Jan. 30, 1951, Serial No. 609,390. Published Nov. 3, 1953. Class 45.

585,388. Deodorant Powder for the Preparation of Cleansing Solutions for Intimate Personal Use. Tampax Incorporated, New York, N. Y.
Filed Mar. 2, 1951, Serial No. 610,766. Published Nov. 10, 1953. Class 51.

585,389. Medicines for Dogs, Cats, and Foxes—Namely, Vermifuge, Compound Tablets, Intestinal Tablets, Ointment, Eye Lotion, Eye Wash Powder, Expectorant Mixture, Canker Medicine, Liquid Tonic, Nerve Sedative, Laxative Pills, Tonic Pills. H. Clay Glover Co., Inc., New York, N. Y.
Filed Mar. 6, 1951, Serial No. 610,901. Published June 24, 1952. Class 18.

585,390. Candy. Thos. D. Richardson Co., Philadelphia, Pa.
Filed May 31, 1951. Serial No. 614,570. Published Nov. 3, 1953. Class 46.

585,391. Non-Poisonous Metal Hardening Compound. Service Industries, Philadelphia, Pa.
Filed May 31, 1951. Serial No. 614,574. Published Nov. 10, 1953. Class 6.

585,392. Precipitated Calcium Silicate for Use as a Filler in the Manufacture of Rubber. Van Baerle & Co. Chemische Fabrik, Gernsheim (Rhine), Germany.
Filed June 21, 1951, Serial No. 615,523. Published Feb. 10, 1953. Class 6.

585,393. Diamond Impregnated Tools for Dressing and Trueing Grinding Wheels. Wheel Trueing Tool Company, Detroit, Mich.
Filed Aug. 15, 1951, Serial No. 617,738. Published July 14, 1953. Class 23.

585,394. Combination Sinks and Cabinets. The Toledo Desk and Fixture Company, Maumee, Ohio, assignor to Toledo Desk & Fixture Corporation, a corporation of Ohio.
Filed Sept. 1, 1951, Serial No. 618,328. Published Nov. 10, 1953. Class 13.

585,395. Edible Chocolate in Solid Form. Droste's Cacaoen Chocoladefabrieken N. V., Haarlem, Netherlands.
Filed Oct. 15, 1951, Serial No. 619,992. Published Nov. 3, 1953. Class 46.

585,396. Scotch Whisky. James Watson & Co. Limited, Seagate, Dundee, Scotland.
Filed Dec. 8, 1951, Serial No. 622,284. Published Nov. 3, 1953. Class 49.

585,397. Interior Wall Paint. General Paint Corporation, San Francisco, Calif.
Filed Dec. 18, 1951, Serial No. 622,649. Published Nov. 10, 1953. Class 16.

585,398. Bourbon Whiskey. Kentucky River Distillery, Incorporated, Nicholasville, Ky.
Filed Dec. 26, 1951, Serial No. 622,830. Published Nov. 3, 1953. Class 49.

585,399. Alcoholic Punch. Aktieselskabet Danisco, also trading as Danisco, Ltd. and as Aktieselskabet Dansk Handels- Og Industri Compagni (Danisco), Copenhagen, Denmark.
Filed Dec. 28, 1951, Serial No. 622,914. Published Nov. 10, 1953. Class 49.

585,400. Sponge and Foam Rubber. The Armstrong Rubber Company, West Haven, Conn.
Filed Jan. 9, 1952, Serial No. 623,330. Published Nov. 10, 1953. Class 1.

585,401. Rust Proofing Compounds. Flexidraw Company, Dearborn, Mich.
Filed Jan. 11, 1952, Serial No. 623,455. Published Nov. 3, 1953. Class 6.

585,402. Sanitary Napkins. Delicat, Inc., New York, N. Y., assignor to Compressed Products Corporation, New York, N. Y., a corporation of Nevada.
Filed Jan. 15, 1952, Serial No. 623,595. Published Nov. 3, 1953. Class 44.

585,403. Camelback. Southeastern Rubber Manufacturing Company, Inc., Athens, Ga.
Filed Dec. 10, 1951, Serial No. 623,629. Published Nov. 10, 1953. Class 35.

585,404. Cleanout Fittings for Gaining Access in Cleaning Out Horizontal and/or Vertical Piping Through Walls, Etc. J. A. Zurn Mfg. Co., Erie, Pa.
Filed Jan. 31, 1952, Serial No. 624,376. Published Nov. 10, 1953. Class 13.

585,405. Cleanout Fittings for Gaining Access in Cleaning Out Horizontal and/or Vertical Piping, Etc. J. A. Zurn Mfg. Co., Erie, Pa.
Filed Jan. 31, 1952, Serial No. 624,378. Published Nov. 10, 1953. Class 13.

585,406. Jeweler Saw Blades. Oscar Fox, Los Angeles, Calif.
Filed Feb. 23, 1952, Serial No. 625,415. Published July 14, 1953. Class 23.

585,407. Champagne Wine. Maison A. Merand & Cie, Epernay, France.
Filed Feb. 27, 1952, Serial No. 625,610. Published Nov. 3, 1953. Class 47.

585,408. Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks; and Syrups, Extracts, and Concentrates for Making the Same. Chocolate Products Company, Chicago, Ill.
Filed Feb. 29, 1952, Serial No. 625,715. Published Nov. 3, 1953. Class 45.

585,409. Liquid Sanitizer for Food Handling Equipment. Klenzade Products, Incorporated, Beloit, Wis.
Filed Mar. 13, 1952, Serial No. 626,384. Published Nov. 3, 1953. Class 6.

585,410. Materials and Supplies Used in the Manufacture of Burial Vaults, Etc. Wilbert W. Haase Co., Broadview, Ill.
Filed Mar. 17, 1952, Serial No. 626,567. Published Nov. 10, 1953. Class 12.

585,411. Fibre Brushes Adapted for Use in Connection With Rugs, Carpets, Nap Fabrics, and For Scrubbing Purposes. Jerclaydon, Inc., Miami Beach, Fla.
Filed Apr. 12, 1952, Serial No. 628,002. Published Nov. 3, 1953. Class 29.

585,412. Starch for Industrial Use. A. E. Staley Manufacturing Company, Decatur, Ill.
Filed Apr. 24, 1952, Serial No. 628,655. Published Nov. 3, 1953. Class 6.

585,413. Polish for Cars and for Household Use. Lucien Dore, doing business as Plast-O-Bright Products, Miami, Fla., assignor to Du Verger-Dennis Corporation, Miami, Fla., a corporation of Florida.
Filed Apr. 29, 1952, Serial No. 628,851. Published Nov. 10, 1953. Class 4.

585,414. Portland Cement. Dyckerhoff Portland-Zementwerke A.-G., Wiesbaden, Germany.
Filed Apr. 30, 1952, Serial No. 628,927. Published Nov. 10, 1953. Class 12.

585,415. Dust Absorbing Composition for Application to Dust Mops and Dust Cloths as an Aid in Cleaning. The Endust Corporation, Washington, D. C.
Filed May 2, 1952, Serial No. 629,094. Published Oct. 27, 1953. Class 52.

585,416. Eyebrow Cream. Eeze Products, Inc., Brookline, Mass.
Filed May 5, 1952, Serial No. 629,192. Published Nov. 3, 1953. Class 51.

585,417. Fluid for Hydraulic Brakes, Shock Absorbers, and the Like. General Motors Corporation, Detroit, Mich.
Filed May 5, 1952, Serial No. 629,198. Published Nov. 3, 1953. Class 6.

585,418. Whole Irish Moss and Refined Whole Irish Moss. Seaplant Chemical Corporation, New Bedford, Mass.
Filed May 6, 1952, Serial No. 629,256. Published Oct. 27, 1953. Class 1.

585,419. Unitary Package Containing a Pie Crust Mix and Canned Beef and Vegetables and Both Used in the Making of Beef Pies. Krey Packing Company, St. Louis, Mo.
Filed May 8, 1952, Serial No. 629,372. Published Nov. 3, 1953. Class 46.

585,420. Cathode Ray Tubes and Television Broadcasting and Receiving Equipment for Scrambled Television Transmission and Reception. Skiatron Electronics & Television Corporation, New York, N. Y.
Filed May 16, 1952, Serial No. 629,825. Published Nov. 3, 1953. Class 21.

585,421. Flavored Syrups Used in the Preparation of Non-Alcoholic Maltless Soft Drinks. Fred Fear & Co., Brooklyn, N. Y.
Filed May 20, 1952, Serial No. 629,936. Published Nov. 3, 1953. Class 45.

585,422. Breads. Clara Leininger, Maumee, Ohio.
Filed May 23, 1952, Serial No. 630,138. Published Nov. 3, 1953. Class 46.

585,423. Electric Terminals. Cook Electric Company, Chicago, Ill.
Filed May 27, 1952, Serial No. 630,313. Published Nov. 3, 1953. Class 21.

585,424. CONSOLIDATED CERTIFICATE. The DoAll Company, Des Plaines, Ill.
Steel Ink. Filed May 28, 1952, Serial No. 630,396. Published June 16, 1953. Class 11.
Tool Steel—Namely, Cobalt, Molybdenum, and Tungsten Alloys for Cutting Tools, Generally Known as High Speed Steel. Filed May 28, 1952, Serial No. 630,400. Published June 9, 1953. Class 14.
Lubricant and Coolant Used in Grinding, and a Lubricating Wax Product in Stick Form for Lubricating the Edges of Cutting Tools. Filed May 28, 1952, Serial No. 630,398. Published July 14, 1953. Class 15.
Electrical Apparatus—Namely, Butt Welders, Magnetic Chucks, and Combination Rectifiers and Magnetizers and Demagnetizers for Magnetic Chucks. Filed May 28, 1952, Serial No. 630,399. Published June 2, 1953. Class 21.
Machine Tools—Namely, Band Saws and Sawing Machines, Filing Machines, Combination Sawing and Filing Machines, Milling Machines, and Special Milling Machines Known as Duplicators, and Surface Grinders; Parts and Attachments for the Machine Tools Specified—Namely, Circular Saws, Band Saw Blades, Hack Saw Blades, Diamond Blade Bands, File Bands, Line Grinding Bands, Gravity Feed Type Drip Applicators for Applying Cutting Oil to the Work Zones of the Machine Tools Specified, Variable Speed Pulleys and V-Belts, Grinding Wheels, Cylindrical Grinding Attachments, and Coolant Unit Attachments for the Machine Tools Specified and Whereby a Liquid Lubricant and Coolant Is Fed by Means of a Pump to the Work Zone of the Machine; Pumps of the Gear, Vane, Centrifugal or Piston Type for All Forms of Gases and Fluids, and Generally Known as Hydraulic Pumps, Air Pumps, and Diaphragm Pumps, Cutting Tools—Namely, Drills, Drill Rods, and Countersinks; and the Following Hand Tools: Hand Saws, Hand Files, and Hammers. Filed May 28, 1952, Serial No. 630,394. Published Sept. 29, 1953. Class 23.
Gaging Instruments and Attachments Therefor—Namely, Gage Blocks, Gage Block Holders, Machines and Apparatus for Measuring Surface Flatness by Optical Comparison, and Parts Thereof, Calipers and Precision Dimension Gages and Parts Thereof, Sine Bars and Sine Plates, and Surface Plates. Filed May 28, 1952, Serial No. 630,397. Published Sept. 22, 1953. Class 26.
Supply Cabinets. Filed May 28, 1952, Serial No. 630,395. Published June 2, 1953. Class 32.

585,425. Lecithin. Ross & Rowe, Inc., New York, N. Y.
Filed June 5, 1952, Serial No. 630,799. Published Nov. 3, 1953. Class 6.

585,426. Perfumes. Les Parfums de Jacques Griffe, Paris, France.
Filed June 14, 1952, Serial No. 631,212. Published Nov. 10, 1953. Class 51.

585,427. Laundry Soap Containing Chlorophyl. Beach Soap Company, Lawrence, Mass.
Filed June 24, 1952, Serial No. 631,645. Published Oct. 27, 1953. Class 52.

585,428. Base Metal Cooking Hollow Ware—Namely, Cooking Pots, Etc. The Enterprise Aluminum Company, Massillon, Ohio.
Filed June 27, 1952, Serial No. 631,856. Published Nov. 10, 1953. Class 13.

585,429. Rum and Cola Beverage. Schieffelin & Co., New York, N. Y.
Filed July 10, 1952, Serial No. 632,394. Published Nov. 10, 1953. Class 49.

585,430. Decalcomania Color Tones in the Nature of Paints or Lacquers. Dupli-Color Products Co., Inc., Chicago, Ill.
Filed July 11, 1952, Serial No. 632,420. Published Nov. 10, 1953. Class 16.

585,431. Facial Masks Used in Connection With Cosmetic Treatments. Helena Rubinstein, Inc., New York, N. Y.
Filed July 18, 1952, Serial No. 632,746. Published Nov. 10, 1953. Class 44.

585,432. Cold Wave Solution. The Rilling-Dermetics Company, New York, N. Y.
Filed July 19, 1952, Serial No. 632,798. Published Nov. 10, 1953. Class 51.

585,433. Lard. Swift & Company, Chicago, Ill.
Filed July 19, 1952, Serial No. 632,804. Published Nov. 3, 1953. Class 46.

585,434. Scotch Whisky. MacDonald, Greenlees Limited, Leith, Edinburgh, Scotland.
Filed July 31, 1952, Serial No. 633,312. Published Nov. 3, 1953. Class 49.

585,435. Air Line Filters. Hannifin Corporation, Chicago, Ill.
Filed Aug. 1, 1952, Serial No. 633,361. Published Oct. 13, 1953. Class 31.

585,436. Fresh Frozen Orange Juice Concentrate, Fresh Frozen Grapefruit Juice Concentrate, Frozen Coffee in Liquid Form, Frozen Waffles, and Fresh Oranges, Grapefruit, Lemons, Limes, and Tangerines. Leigh Foods, Inc., New York, N. Y.
Filed Aug. 6, 1952, Serial No. 633,547. Published Nov. 3, 1953. Class 46.

585,437. Fresh Frozen Orange Juice Concentrate, Fresh Frozen Grapefruit Juice Concentrate, Frozen Coffee in Liquid Form, Frozen Waffles, and Fresh Oranges, Grapefruit, Lemons, Limes, and Tangerines. Leigh Foods, Inc., New York, N. Y.
Filed Aug. 6, 1952, Serial No. 633,548. Published Nov. 3, 1953. Class 46.

585,438. Garment Trimming Machines. Consolidated Sewing Machine and Supply Co., Inc., New York, N. Y.
Filed Aug. 7, 1952, Serial No. 633,568. Published July 14, 1953. Class 23.

585,439. Commercial and Domestic Incinerators. The Winnen Incinerator Company, Bedford, Ohio.
Filed Aug. 8, 1952, Serial No. 633,644. Published Oct. 27, 1953. Class 34.

585,440. Water Proofed Vegetable Fiber Board Used for Siding. Minnesota and Ontario Paper Company, Minneapolis, Minn.
Filed Aug. 16, 1952, Serial No. 634,050. Published Nov. 10, 1953. Class 12.

585,441. Fresh Carrots. Maggio Bros. Co., Los Angeles and El Centro, Calif.
Filed Aug. 18, 1952, Serial No. 634,102. Published Nov. 3, 1953. Class 46.

585,442. Whiskey. Callison Wholesale Liquor Company, East St. Louis, Ill.
Filed Aug. 13, 1952, Serial No. 634,429. Published Nov. 3, 1953. Class 49.

585,443. De-Aeration Apparatus Used in the Paper Industry for the Removal by Vacuum of Air From Paper-Making Constituents. The Rotareaed Corporation, Bronxville, N. Y.
Filed Aug. 29, 1952, Serial No. 634,658. Published July 28, 1953. Class 23.

585,444. Curing and Preserving Compounds for Meats, Etc. Fearn Foods Inc., Franklin Park, Ill.
Filed Sept. 8, 1952, Serial No. 634,974. Published Nov. 10, 1953. Class 46.

585,445. Compounds for Hardening and Alloying Steel. Armor-Tuf Laboratories, Inc., New York, N. Y.
Filed Sept. 11, 1952, Serial No. 635,115. Published Nov. 3, 1953. Class 6.

585,446. Dyestuffs in Powder Form. Sandoz Chemical Works, Inc., New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,197. Published Nov. 10, 1953. Class 6.

585,447. Flower Plants—Namely, Violets (Episcia Coccinea). The Welch Nurseries, Inc., Shenandoah, Iowa.
Filed Sept. 12, 1952, Serial No. 635,208. Published Nov. 10, 1953. Class 1.

585,448. Oat Flour Mix for Pancakes, Waffles, Muffins, Cakes, and Cup Cakes. Mary Jo's Products, Inc., Atlanta, Ga.
Filed Sept. 15, 1952, Serial No. 635,272. Published Nov. 3, 1953. Class 46.

585,449. Pectin Compositions, Bulk or Packaged, for Use in Making Jams, Jellies, Custards, Candies, and the Like; Spray Dried Citric Acid Preparations for Use in Confectionery and Bakery Operations; and Citrus Fruit Juices, Liquid, Frozen, and Powdered. Mutual Citrus Products Company, Anaheim, Calif.
Filed Sept. 20, 1952, Serial No. 635,548. Published Nov. 3, 1953. Class 46.

585,450. Fishing Plug. Michael F. Murray, Eugene, Oreg.
Filed Sept. 22, 1952, Serial No. 635,608. Published Nov. 3, 1953. Class 22.

585,451. Skin Protective Cream. Foster-Milburn Company, doing business under the name and style of Westwood Pharmaceuticals, Buffalo, N. Y.
Filed Sept. 27, 1952, Serial No. 635,878. Published Nov. 10, 1953. Class 51.

585,452. Water Conditioning Device of the Nature of a Pipefitting, Etc. Porter and Brown Manufacturing Company, Salt Lake City, Utah.
Filed Oct. 1, 1952, Serial No. 636,029. Published Nov. 3, 1953. Class 13.

585,453. Shampoos and Toilet Soaps for Face and Hands. Beauty Counselors, Inc., Grosse Pointe, Mich.
Filed Oct. 2, 1952, Serial No. 636,058. Published Nov. 3, 1953. Class 52.

585,454. Electrical Disintegrating Machines for Disintegrating Metals and Accessories Therefor, Etc. Elox Corporation of Michigan, Clawson, Mich.
Filed Oct. 2, 1952, Serial No. 636,072. Published Nov. 3, 1953. Class 21.

585,455. Brush Handles and Backs of Brushes of Various Types—Namely, Clothes Brushes, Hair Brushes, and Scrubbing Brushes All Formed of Cold Molded Wood Plastic. Burwood Products Company, Traverse City, Mich.
Filed Oct. 6, 1952, Serial No. 636,202. Published Nov. 10, 1953. Class 29.

585,456. Dairy Products—Namely, Fresh Milk, Fresh Cream, Eggs, Butter, and Cottage Cheese; Margarine and Frozen Dessert Products—Namely, Ice Cream, Ice Cream Cake Roll, and Frozen Confections on a Stick. North American Creameries, Inc., Minneapolis, Minn.
Filed Oct. 6, 1952, Serial No. 636,247. Published Nov. 10, 1953. Class 46.

585,457. Shelf Molding Price Tag Holder. S. A. Hirsh Manufacturing Co., Skokie, Ill.
Filed Oct. 8, 1952, Serial No. 636,358. Published Nov. 10, 1953. Class 13.

585,458. Insulating Device Comprising Spacer Bars Mounted Upon a Suitable Support To Space, Support, and Insulate a First Pipe Passing Through a Second Pipe, Such as in a Pipe Line Crossing One Pipe Inside Another. T. D. Williamson, Inc., Tulsa, Okla.
Filed Oct. 10, 1952, Serial No. 636,503. Published Nov. 10, 1953. Class 13.

585,459. Resuscitators of the Oscillating Bed Type. Air-Shields, Inc., Hatboro, Pa.
Filed Oct. 16, 1952, Serial No. 636,672. Published Nov. 10, 1953. Class 44.

585,460. Liquid Cleansing Composition for Porcelain Toilet Bowls, Urinals, and the Like. Allied Home Products Corporation, Beloit, Wis.
Filed Oct. 22, 1952, Serial No. 636,958. Published May 19, 1953. Class 52.

585,461. Electrical Terminal Blocks. Ilsco Copper Tube & Products, Inc., Cincinnati, Ohio.
Filed Oct. 22, 1952, Serial No. 636,983. Published Nov. 3, 1953. Class 21.

585,462. Fresh and Frozen, Cooked and Raw Seafoods—Namely, Oysters, Shrimp, and Fish. Weyand & Hogman Fish Company, Wyandotte, Mich.
Filed Oct. 23, 1952, Serial No. 637,097. Published Nov. 3, 1953. Class 46.

585,463. Perchlorethylene for Use as a Degreasing Agent. Metalwash Machinery Company, Elizabeth, N. J.
Filed Oct. 28, 1952, Serial No. 637,283. Published Nov. 3, 1953. Class 52.

585,464. Oil Fired Furnaces, Gas Fired Furnaces, Heat Exchangers, Gas Fired Air Conditioning Units, Forced Warm Air Furnaces, Suspended Furnaces, and Horizonal Furnaces. Cox Manufacturing Company, Ridgeville, Ind.
Filed Nov. 14, 1952, Serial No. 638,067. Published Oct. 27, 1953. Class 34.

585,465. An Organic Solvent Which Is Used for Flushing, Clearing, and Drying Internal Lines of Refrigerating Systems, by Injecting the Solvent into the Lines Under Pressure. Ansul Chemical Company, Marinette, Wis.
Filed Nov. 24, 1952, Serial No. 638,514. Published July 21, 1953. Class 52.

585,466. Hand Sweeping Device Comprised of a Handle Member Having at Its Lower End a Cross Member Provided With a Resilient Sweeping Blade Member. Joseph C. Woodford, Ferrysburg, Mich.
Filed Nov. 28, 1952, Serial No. 638,751. Published Nov. 3, 1953. Class 29.

585,467. Beverage Sets Comprising Tumblers and Pitcher; Serving Tray; Coasters; Stein Set; Tea Kettle; All Made of Anodized Aluminum. Heller Hostess-Ware, Inc., White Plains, N. Y.
Filed Dec. 6, 1952, Serial No. 639,115. Published Nov. 10, 1953. Class 13.

585,468. Medicinal Preparation in Pill Form Containing Vitamins and Used in the Treatment of Secondary Anemias and as a Diet Supplement. Chicago Pharmacal Company, Chicago, Ill.
Filed Dec. 8, 1952, Serial No. 639,153. Published Oct. 27, 1953. Class 18.

585,469. Siding and Wallboard. Sydney Mann, doing business as Home Improvement Company, Kansas City, Mo.
Filed Dec. 9, 1952, Serial No. 639,230. Published Nov. 10, 1953. Class 12.

585,470. Paste Cleaner for Hands; Paste Cleaner for Woodwork, Etc. Better Brushes, Incorporated, Palmer, Mass.
Filed Dec. 13, 1952, Serial No. 639,413. Published Nov. 10, 1953. Class 52.

585,471. Chinchillas. Ramon Somavia, Hollister, Calif.
Filed Dec. 15, 1952, Serial No. 639,491. Published Oct. 27, 1953. Class 1.

585,472. Compound for Use in the Eradication of Fish. Vis-Ko, Inc., Sumner, Wash.
Filed Dec. 18, 1952, Serial No. 639,728. Published Nov. 3, 1953. Class 6.

585,473. Paint, Varnish, Enamel, Lacquer, Stain, Varnish Undercoat. John A. Steen Varnish Co., Chicago, Ill.
Filed Dec. 22, 1952, Serial No. 639,906. Published Nov. 3, 1953. Class 16.

585,474. Flocculating and Filtering Reagent for Use in Processing Coal and Minerals. American Cyanamid Company, New York, N. Y.
Filed Jan. 2, 1953, Serial No. 640,249. Published Nov. 3, 1953. Class 6.

585,475. Portable Rubber Covered Electrical Cable. Standard Wire and Cable Company, Los Angeles, Calif.
Filed Jan. 5, 1953, Serial No. 640,364. Published Nov. 3, 1953. Class 21.

585,476. Prepared Porcelain for Use by the Dental Profession in the Formation of Artificial Teeth and Repair and Restoration of Injured Teeth. The Columbus Dental Manufacturing Co., Columbus, Ohio.
Filed Jan. 8, 1953, Serial No. 640,499. Published Nov. 10, 1953. Class 44.

585,477. Medicinal Preparation Containing Betaine Hydrochloride, Pepsin, and Methylcellulose Used in the Treatment of Gastric Subacidity and Pepsin Deficiency. The Stuart Company, Pasadena, Calif.
Filed Jan. 12, 1953, Serial No. 640,655. Published Oct. 27, 1953. Class 18.

585,478. Fresh Deciduous Fruits. C. M. Holtzinger Fruit Co., Inc., Yakima, Wash.
Filed Jan. 16, 1953, Serial No. 640,859. Published Nov. 10, 1953. Class 46.

585,479. Dried Fruits and Evaporated Fruits. Edwards-Freeman, Inc., Philadelphia, Pa.
Filed Jan. 19, 1953, Serial No. 640,924. Published Nov. 3, 1953. Class 46.

585,480. Medicinal Tablets for Treatment of Hypertension. Riker Laboratories, Inc., Los Angeles, Calif.
Filed Jan. 19, 1953, Serial No. 640,963. Published Oct. 13, 1953. Class 18.

585,481. Birch Flush Doors. Wisconsin Door Company, Livonia, Mich.
Filed Jan. 19, 1953, Serial No. 640,988. Published Nov. 10, 1953. Class 12.

585,482. Canned Ham. Atalanta Trading Corporation, New York, N. Y.
Filed Jan. 21, 1953, Serial No. 640,998. Published Nov. 3, 1953. Class 46.

585,483. Canned Ham. Atalanta Trading Corporation, New York, N. Y.
Filed Jan. 21, 1953, Serial No. 640,999. Published Nov. 3, 1953. Class 46.

585,484. Cocoa Mix. General Foods Corporation, New York, N. Y.
Filed Jan. 21, 1953, Serial No. 641,039. Published Nov. 3, 1953. Class 46.

585,485. Slitting Wheel Assembly in a Machine for Automatically Slitting Webs of Paper or Other Flexible Material. Cameron Machine Company, Brooklyn, N. Y.
Filed Jan. 23, 1953, Serial No. 641,172. Published July 14, 1953. Class 23.

585,486. Windows, Doors, Screens, and Metal and Wooden Awnings. Nesco Corporation, doing business under the name and style New England Sales Co., Waterbury, Conn.
Filed Jan. 26, 1953, Serial No. 641,321. Published Nov. 10, 1953. Class 12.

585,487. Filter Disks, Rolls, and Strips. Johnson & Johnson, New Brunswick, N. J.
Filed Jan. 27, 1953, Serial No. 641,381. Published Oct. 13, 1953. Class 31.

585,488. Protein Digester for Albuminous Stains—Namely, Mustard, Milk, Ice Cream, Blood, Gravy, Discharge, Vomit, Ink, Glue, Coffee, Tea, Chocolate, Salad Dressing, Soft Drinks, Tannin, Etc. A. L. Wilson Chemical Company, Kearny, N. J.
Filed Jan. 27, 1953, Serial No. 641,408. Published Nov. 10, 1953. Class 52.

585,489. Cleaning Solvent Useful for General Domestic and Industrial Cleaning of Fabrics, and the Like. A. L. Wilson Chemical Company, Kearny, N. J.
Filed Jan. 27, 1953, Serial No. 641,411. Published Nov. 3, 1953. Class 52.

585,490. Candy. The Great Atlantic and Pacific Tea Company, New York, N. Y.
Filed Jan. 28, 1953, Serial No. 641,448. Published Nov. 3, 1953. Class 46.

585,491. Mineral Wax Prepared From Montanic Acids, Wax Esters, and Montanic Alcohols. American Lignite Products Co., Ione, Calif.
Filed Feb. 6, 1953, Serial No. 641,827. Published Oct. 27, 1953. Class 15.

585,492. T Wrenches, Pipe Wrenches, Open End Wrenches, Pipe Cutting Tools, and Pipe Grooving Tools. Victaulic Company of America, Union, N. J.
Filed Feb. 6, 1953, Serial No. 641,876. Published July 14, 1953. Class 23.

585,493. Fructose in Solution for Parenteral Administration. Mead Johnson & Company, Evansville, Ind.
Filed Feb. 9, 1953, Serial No. 641,942. Published Oct. 27, 1953. Class 18.

585,494. Leather. Eagle-Ottawa Leather Company, Grand Haven, Mich.
Filed Feb. 13, 1953, Serial No. 642,205. Published Oct. 27, 1953. Class 1.

585,495. Leather. Eagle-Ottawa Leather Company, Grand Haven, Mich.
Filed Feb. 13, 1953, Serial No. 642,206. Published Oct. 27, 1953. Class 1.

585,496. Leather. Eagle-Ottawa Leather Company, Grand Haven, Mich.
Filed Feb. 13, 1953, Serial No. 642,208. Published Oct. 27, 1953. Class 1.

585,497. Leather. Eagle-Ottawa Leather Company, Grand Haven, Mich.
Filed Feb. 13, 1953, Serial No. 642,209. Published Oct. 27, 1953. Class 1.

585,498. Leather. Eagle-Ottawa Leather Company, Grand Haven, Mich.
Filed Feb. 13, 1953, Serial No. 642,210. Published Oct. 27, 1953. Class 1.

585,499. Babies' Teethers. Richard G. Krueger, Inc., New York, N. Y.
Filed Feb. 17, 1953, Serial No. 642,358. Published Nov. 3, 1953. Class 44.

585,500. Medical Preparation in Elixir and Syrup Form, for Use in Treatment and Relief of Coughs Due to Simple Colds. Drug Specialties, Inc., Winston-Salem, N. C.
Filed Feb. 20, 1953, Serial No. 642,530. Published Oct. 27, 1953. Class 18.

585,501. Leather. Eagle-Ottawa Leather Company, Grand Haven, Mich.
Filed Feb. 24, 1953, Serial No. 642,626. Published Oct. 27, 1953. Class 1.

585,502. Air Conditioning Equipment—Namely, Furnaces, Air Distributing Ducts, and Registers. David Berger, doing business as Berger Furnace Manufacturing Co., Pittsburgh, Pa.
Filed Mar. 2, 1953, Serial No. 642,933. Published Oct. 27, 1953. Class 34.

585,503. Emulsion of Vitamins A, D, and C. Mead Johnson & Company, Evansville, Ind.
Filed Mar. 2, 1953, Serial No. 642,980. Published Oct. 27, 1953. Class 18.

585,504. Domestic Furnaces. Oran Company, Columbus, Ohio.
Filed Mar. 5, 1953, Serial No. 643,181. Published Oct. 27, 1953. Class 34.

585,505. Finished Leathers. S & S Trading Company, Gloversville, N. Y.
Filed Mar. 18, 1953, Serial No. 643,858. Published Oct. 27, 1953. Class 1.

585,506. Dry Cleaning Preparation for Fabric and Leather Wearing Apparel, Upholstery, Rugs, and Similar Items. Griffin Manufacturing Co., Inc., Brooklyn, N. Y.
Filed Mar. 20, 1953, Serial No. 643,953. Published Nov. 10, 1953. Class 52.

585,507. Automatic Defrosting Refrigerator and Automatic Defrosting System. Motor Products Corporation, Detroit, Mich., and North Chicago, Ill.
Filed Mar. 23, 1953, Serial No. 644,053. Published Nov. 3, 1953. Class 31.

585,508. Wheat Flour. International Milling Company, Minneapolis, Minn.
Filed Mar. 27, 1953, Serial No. 644,309. Published Nov. 3, 1953. Class 46.

585,509. Fresh Celery and Fresh Carrots. Henry Forschmiedt, doing business as Forschmiedt Celery Company, Dallas, Tex.
Filed Mar. 30, 1953, Serial No. 644,406. Published Nov. 10, 1953. Class 46.

585,510. Wheat Flour. International Milling Company, Minneapolis, Minn.
Filed Mar. 30, 1953, Serial No. 644,418. Published Nov. 3, 1953. Class 46.

585,511. All-Metal Fluxes for Soldering. Metal Mending Products, Inc., Milwaukee, Wis.
Filed Mar. 31, 1953, Serial No. 644,510. Published Nov. 10, 1953. Class 6.

585,512. Bacon. Swift & Company, doing business as St. Louis Independent Packing Company, Chicago, Ill., and St. Louis, Mo.
Filed Apr. 2, 1953, Serial No. 644,646. Published Nov. 3, 1953. Class 46.

585,513. Brandy. California Wine Association, San Francisco, Calif.
Filed Apr. 3, 1953, Serial No. 644,663. Published Nov. 3, 1953. Class 49.

585,514. Pharmaceutical Preparation Containing Essential Food Constituents, Minerals, and Vitamins, for Tube and Other Feeding. Mead Johnson & Company, Evansville, Ind.
Filed Apr. 8, 1953, Serial No. 644,919. Published Nov. 3, 1953. Class 18.

585,515. Hypodermic Needles. John L. Yonkers, doing business as Technical Instrument Co., Chicago, Ill.
Filed Apr. 9, 1953, Serial No. 645,024. Published Nov. 10, 1953. Class 44.

585,516. Chemical and Pharmaceutical Preparations for Use in the Treatment of Gall and Liver Ailments and Disturbances and for Treating Indigestion. Ilon Chemische Industrie G. m. b. H., Freiburg-Littenweiler/Br., Germany.
Filed Apr. 10, 1953, Serial No. 645,043. Published Nov. 3, 1953. Class 18.

585,517. Chemical Preservatives for Use in Livestock Feeds—Namely, Carotene Anti-Oxidants. Monsanto Chemical Company, St. Louis, Mo.
Filed Apr. 17, 1953, Serial No. 645,504. Published Nov. 10, 1953. Class 46.

585,518. Solvents and Diluents for Adhesives and Cements, Comprising Acetone, Toluene, and Hexane. Caram Manufacturing Company, Monrovia, Calif.
Filed Apr. 20, 1953, Serial No. 645,544. Published Nov. 3, 1953. Class 6.

585,519. Electric Space Heaters. Federal Malleable Company, Milwaukee, Wis.
Filed Apr. 20, 1953, Serial No. 645,560. Published Nov. 10, 1953. Class 21.

585,520. Ground Clay. Henry Edward Lowe, Jr., doing business as Lowe & Lowe Co., Cassopolis, Mich.
Filed Apr. 20, 1953, Serial No. 645,578. Published Oct. 27, 1953. Class 1.

585,521. Dye Reducing Agents, and Color Stripping Agents. E. I. du Pont de Nemours and Company, Wilmington, Del.
Filed Apr. 21, 1953, Serial No. 645,638. Published Nov. 3, 1953. Class 6.

585,522. Polyethylene Film in Sheet Form for the Manufacture of Bags. Extruders, Inc., Hawthorne, Calif.
Filed Apr. 21, 1953, Serial No. 645,641. Published Oct. 27, 1953. Class 1.

585,523. Ready Mixed Paints and Enamels. International Paint Company, Inc., New York, N. Y.
Filed Apr. 21, 1953, Serial No. 645,650. Published Nov. 3, 1953. Class 16.

585,524. Christmas Trees. Delta Gamma Pre-School Visually Handicapped Foundation of St. Louis, St. Louis, Mo.
Filed Apr. 22, 1953, Serial No. 645,699. Published Oct. 27, 1953. Class 1.

585,525. Gladiolus Bulbs. Stern's Nurseries, Inc., Geneva, N. Y.
Filed Apr. 22, 1953, Serial No. 645,738. Published Oct. 27, 1953. Class 1.

585,526. Specially Processed Chocolate Crystals Containing Sweet Chocolate With an Emulsifier and Artificial Flavoring, and Which Are Added to Hot Melted Chocolate to Obtain a Desired Crystalline Structure in the Final Product. R. G. Moench & Co., Inc., New York, N. Y.
Filed Apr. 24, 1953, Serial No. 645,912. Published Nov. 3, 1953. Class 46.

585,527. Composition for Adding to Antifreeze Solutions to Inhibit Attack Thereof on Metals. The Dow Chemical Company, Midland, Mich.
Filed Apr. 27, 1953, Serial No. 645,969. Published Nov. 10, 1953. Class 6.

585,528. Chewing Gum. Leaf Brands, Inc., Chicago, Ill.
Filed Apr. 27, 1953, Serial No. 645,995. Published Nov. 3, 1953. Class 46.

585,529. Wild Bird Seeds. J. C. Oliger Seed Company, Akron, Ohio.
Filed Apr. 29, 1953, Serial No. 646,159. Published Nov. 3, 1953. Class 46.

585,530. Wax Polish for Furniture and Automobiles. Rathgeber Laboratories, New Haven, Conn.
Filed Apr. 29, 1953, Serial No. 646,166. Published Nov. 10, 1953. Class 4.

585,531. Antibiotic. American Cyanamid Company, New York, N. Y.
Filed Apr. 30, 1953, Serial No. 646,194. Published Oct. 27, 1953. Class 18.

585,532. Screen Wire-Cloth. American Wire Fabrics Corporation, New York, N. Y.
Filed May 1, 1953, Serial No. 646,254. Published Nov. 3, 1953. Class 13.

585,533. Tea and Coffee Urns. Cecilware-Commodore Products Corp., New York, N. Y.
Filed May 1, 1953, Serial No. 646,270. Published Nov. 3, 1953. Class 13.

585,534. Cooking Apparatus—Namely, Racks for Holding Food During Broiling or Barbecuing Thereof. Rival Manufacturing Company, Kansas City, Mo.
Filed May 1, 1953, Serial No. 646,313. Published Nov. 10, 1953. Class 13.

585,535. Four-Hour Paint Enamel, House Paint, Floor Enamel, Varnishes, Creosote Paints; Brick, Stucco, and Masonry Paints; Flat Oil Paints, Aluminum Paints. St. Louis Paint Manufacturing Company, doing business as Shurway Paint Mfg. Co., St. Louis, Mo.
Filed May 1, 1953, Serial No. 646,320. Published Nov. 3, 1953. Class 16.

585,536. Chemically Treated Paper Indicators Which Are Adapted To Change Color When Subjected to a Predetermined Time-Temperature Exposure. Aseptic-Thermo Indicator Co., Los Angeles, Calif.
Filed May 4, 1953, Serial No. 646,349. Published Nov. 10, 1953. Class 6.

585,537. Liver Concentrate, Ferrous Gluconate With Added Vitamins, Folic Acid, and Copper Sulfate. Rexall Drug Company, Los Angeles, Calif.
Filed May 4, 1953, Serial No. 646,426. Published Oct. 27, 1953. Class 18.

585,538. Medicinal Preparations in Ointment and Suppository Forms. Rexall Drug Company, Los Angeles, Calif.
Filed May 4, 1953, Serial No. 646,427. Published Oct. 27, 1953. Class 18.

585,539. Antihistaminic Cold Capsules. Rhinopto Company, Dallas, Tex.
Filed May 4, 1953, Serial No. 646,428. Published Oct. 27, 1953. Class 18.

585,540. Motor Fuels and Lubricating Oils. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif.
Filed May 4, 1953, Serial No. 646,439. Published Oct. 27, 1953. Class 15.

585,541. Buffing and Polishing Compounds. E. Reed Burns Mfg. Corp., Brooklyn, N. Y.
Filed May 5, 1953, Serial No. 646,454. Published Nov. 10, 1953. Class 4.

585,542. Soap. Iowa Soap Company, Burlington, Iowa.
Filed May 5, 1953, Serial No. 646,475. Published Nov. 10, 1953. Class 52.

585,543. Additive for Flexographic Aniline Inks. Central Compounding Company, Chicago, Ill.
Filed May 6, 1953, Serial No. 646,522. Published Nov. 10, 1953. Class 11.

585,544. Pellets for Feeding Chinchillas. Jess & C. A. Cutler, Inc., Columbus, Ga.
Filed May 6, 1953, Serial No. 646,535. Published Nov. 10, 1953. Class 46.

585,545. Rare Earth Oxide Compositions. Mallinckrodt Chemical Works, St. Louis, Mo.
Filed May 6, 1953, Serial No. 646,562. Published Nov. 3, 1953. Class 6.

585,546. Dyestuffs Used in Printing on Textiles. Sterling Drug Inc., New York, N. Y.
Filed May 7, 1953, Serial No. 646,630. Published Nov. 3, 1953. Class 6.

585,547. Dyes and Dyestuffs for Levelling and Stripping Agents. Geigy Company, Inc., New York, N. Y.
Filed May 8, 1953, Serial No. 646,663. Published Nov. 3, 1953. Class 6.

585,548. Textile Resin Finishes. Metro-Atlantic Inc., Centredale, R. I.
Filed May 11, 1953, Serial No. 646,786. Published Nov. 10, 1953. Class 6.

585,549. Textile Resin Finishes. Metro-Atlantic Inc., Centredale, R. I.
Filed May 11, 1953, Serial No. 646,787. Published Nov. 10, 1953. Class 6.

585,550. Antibiotic. American Cyanamid Company, New York, N. Y.
Filed May 13, 1953, Serial No. 646,917. Published Oct. 27, 1953. Class 18.

585,551. Skin Ointment. Schenley Laboratories, Inc., New York, N. Y.
Filed May 11, 1953, Serial No. 646,809. Published Oct. 27, 1953. Class 18.

585,552. Muscle Relaxant and Vitamins in Combined Dosage Form. Ayerst, McKenna & Harrison Limited, New York, N. Y.
Filed May 12, 1953, Serial No. 646,842. Published Oct. 27, 1953. Class 18.

585,553. Rectal Ointment. Theodore R. Hill, doing business as The Hill Co., Detroit, Mich.
Filed May 12, 1953, Serial No. 646,865. Published Oct. 27, 1953. Class 18.

585,554. Antibacterial Preparation. Mathieson Chemical Corporation, New York, N. Y.
Filed May 12, 1953, Serial No. 646,885. Published Oct. 27, 1953. Class 18.

585,555. Water-Resistant and Protective Paint or Enamel Coating for Concrete, Etc. Inertol Co., Inc., Newark, N. J.
Filed May 13, 1953, Serial No. 646,943. Published Nov. 10, 1953. Class 16.

585,556. Shaving Cream. Botany Mills, Inc., Passaic, N. J.
Filed May 14, 1953, Serial No. 646,984. Published Nov. 10, 1953. Class 51

585,557. Beer. Berghoff Brewing Corporation, Fort Wayne, Ind.
Filed May 14, 1953, Serial No. 646,981. Published Nov. 3, 1953. Class 48.

585,558. Medicated Douche Powder, Antiseptic and Hygienic Jelly and Antiseptic Hygienic Suppositories. The Stillman Company, Aurora, Ill.
Filed May 20, 1953, Serial No. 647,377. Published Nov. 10, 1953. Class 18.

585,559. Hearing Aids. Hal-Hen Company, Woodside, N. Y.
Filed May 21, 1953, Serial No. 647,415. Published Nov. 10, 1953. Class 44.

Service Marks

585,560. Conducting Golf Tournaments. Handmacher-Vogel, Inc., New York, N. Y.
Filed Apr. 25, 1950, Serial No. 596,225. Published Nov. 3, 1953. Class 107.

585,561. Drafting, Designing, and Supplying Specifications and Instructions for Use in the Construction of Filter Underdrain Systems. The Permutit Company, New York, N. Y.
Filed Nov. 8, 1951, Serial No. 621,026. Published Nov. 3, 1953. Class 100.

585,562. Finishing Fabrics of Others—Namely, Compacting the Same, Increasing the Course and Wale Count, Increasing the Thickness, and Enhancing the Drape and Hand. Triangle Finishing Corp., Johnstown, N. Y.
Filed Feb. 25, 1952, Serial No. 625,499. Published Nov. 10, 1953. Class 106.

585,563. Radio Program Broadcasting. Crosley Broadcasting Corporation, Cincinnati, Ohio.
Filed Apr. 4, 1952, Serial No. 627,557. Published Nov. 3, 1953. Class 104.

585,564. Entertainment Services in the Nature of a Radio Program Comprising News, Information, Commentaries, and Interviews of Famous Persons, All Relating to the Sport of Bowling. Samuel Weinstein, Chicago, Ill.
Filed Mar. 11, 1953, Serial No. 643,523. Published Nov. 3, 1953. Class 107.

585,565. Industrial Construction Services. The Ferber Company, Hackensack, N. J.
Filed June 18, 1953, Serial No. 648,987. Published Nov. 3, 1953. Class 103.

585,566. Services Rendered Manufacturers of All Kinds of Fabrics Containing Nylon in Admixture With Other Fibers Both Natural and Synthetic—Namely, Bleaching, Dyeing, and Heat-Setting. Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y.
Filed June 8, 1953, Serial No. 648,364. Published Nov. 10, 1953. Class 106.

585,567. Spraying Plastic Coatings on Pipe. Mal-Boc Pipeline Construction Company, Linden, N. J.
Filed May 18, 1953, Serial No. 647,209. Published Nov. 3, 1953. Class 103.

585,568. Rebuilding, Altering, Repair, and Maintenance of Business Machines—Namely, Typewriting Machines, Computing Machines, and Machines Employed in Punch Card Systems. Underwood Corporation, New York, N. Y.
Filed Apr. 10, 1953, Serial No. 645,084. Published Nov. 10, 1953. Class 103.

585,569. Providing Consultation Services for Crippled Persons in the Areas of Health, Welfare, Special Education, Recreation, Rehabilitation, and Employment. The National Society for Crippled Children and Adults, Inc., Chicago, Ill.
Filed Mar. 26, 1953, Serial No. 644,248. Published Nov. 10, 1953. Class 100.

Certification Mark

585,570. Fungicides, Acne Preparations, Eye Drops, Ear Drops, Etc. Kingsland-Ferguson, Inc., Brooklyn, N. Y.
Filed Aug. 11, 1952, Serial No. 633,727. Published Oct. 20, 1953. Class 18.

Collective Mark

585,571. Commercial Laundry and Dry Cleaning Services. Polly Prim Laundries of America, Inc., New York, N. Y.
Filed Oct. 24, 1952, Serial No. 637,147. Published Nov. 10, 1953. Class 103.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

585,572. (Class 45. Soft Drinks and Carbonated Waters.) The Delaware Punch Company of America, San Antonio, Tex. Original filed, act of 1946, Principal Register, May 27, 1949; amended to application, Supplemental Register, May 26, 1950, Serial No. 579,584.



Applicant claims ownership of Registration No. 122,196.
For Non-Alcoholic Maltless Beverage Sold as a Soft Drink and Not Used as or Sold for the Same Purposes as Grape Juice.
Claims use since Jan. 1, 1939.

585,573. (Class 2. Receptacles.) Harold W. Mesberg and Max Freeman, Long Island City, N. Y. Original filed, act of 1946, Principal Register, Dec. 10, 1949; amended to application, Supplemental Register, Oct. 26, 1953, Serial No. 589,161.

Silver-Rich

For Ornamental Plated Plastic Articles—Namely, Cups, Saucers, Vases.
Claims use since Sept. 1, 1949.

585,574. (Class 12. Construction Materials.) William R. Lutze, Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Oct. 20, 1950; amended to application, Supplemental Register, Sept. 29, 1952, Serial No. 605,218.

Redi-Dor

For Door Casings.
Claims use since Aug. 14, 1950.

585,575. (Class 4. Abrasives and Polishing Materials.) Lien Chemical Company, Franklin Park, Ill. Original filed, act of 1946, Principal Register, Mar. 1, 1951; amended to application, Supplemental Register, Feb. 27, 1953, Serial No. 610,704.



For Self Polishing Floor Wax.
Claims use since May 26, 1949.

585,576. (Class 52. Detergents and Soaps.) Lien Chemical Company, Franklin Park, Ill. Original filed, act of 1946, Principal Register, Mar. 1, 1951; amended to application, Supplemental Register, Feb. 13, 1953, Serial No. 610,705.



For Concentrated Soapless Cleaner, Liquid Form, for General Cleaning Including Dishes, Glassware, Silver, Automobiles, Trucks, Windows, Mirrors, Painted Walls, Woodwork, Blinds, Fabrics, Rugs, Upholstery, Woolens, Nylon, and Rayon.
Claims use since Nov. 3, 1947.

585,577. (Class 46. Foods and Ingredients of Foods.) Texas Star Foods, Inc., San Antonio, Tex. Original filed, act of 1946, Principal Register, Mar. 5, 1951; amended to application, Supplemental Register, July 10, 1953, Serial No. 610,872.

Hom-Pak

The word "Pak" is disclaimed.
For Oleomargarine.
Claims use since Dec. 20, 1950.

585,578. (Class 17. Tobacco Products.) A. M. Hirschsprung & Sonner Aktieselskab, Copenhagen, Denmark. Original filed, act of 1946, Principal Register, Aug. 14, 1951; amended to application, Supplemental Register, July 23, 1953, Serial No. 617,641.

HIRSCHSPRUNG

Applicant claims ownership of Danish Registration No. 1552–1949, dated Dec. 3, 1949.
For Cigars, Cheroots, and Cigarettes.

585,579. (Class 12. Construction Materials.) The Mineral Products Company, Kansas City, Mo., and Kanas City, Kans. Original filed, act of 1946, Principal Register, Dec. 13, 1951; amended to application, Supplemental Register, Oct. 27, 1952, Serial No. 622,444.



For Sintered Aggregate Used for Building Blocks, Roofing Aggregate and Monolithic Concrete.
Claims use since Oct. 23, 1951.

585,580. (Class 45. Soft Drinks and Carbonated Waters.) Manantiales Peñafiel, S. A., Tehuacan, Puebla, Mexico. Original filed, act of 1946, Principal Register, Dec. 18, 1951; amended to application, Supplemental Register, Sept. 14, 1953, Serial No. 622,654.



Applicant claims ownership of Mexican Registration No. 55,061, dated Apr. 21, 1947.
For Mineral Water.

585,581. (Class 46. Foods and Ingredients of Foods.) Roly-Poly Corporation, Lima, Ohio, assignee of Harold H. Minnick. Original filed, act of 1946, Principal Register, Jan. 15, 1952; amended to application, Supplemental Register, May 20, 1953, Serial No. 623,613.

"THE FROZEN TREAT, YOU'LL LOVE TO EAT."

For Ice Cream, Ice Cream Cones, Ice Cream Sandwiches, Ice Cream Bars, and Frozen Custards.
Claims use since Dec. 12, 1951.

585,582. (Class 46. Foods and Ingredients of Foods.) West Coast Packing Corporation, Long Beach, Calif. Original filed, act of 1946, Principal Register, Apr. 14, 1952; amended to application, Supplemental Register, Aug. 24, 1953, Serial No. 628,074.

SUPER MAT

For Canned Cat Food, Consisting of Fresh Fish, Ground Barley, Ground Yellow Corn, Molasses, Linseed Oil Meal, Peanut Oil Meal, Salt, Rice Polish, and Added Vitamins.
Claims use since Mar. 18, 1952.

585,583. (Class 28. Jewelry and Precious-Metal Ware.) Robert Allen Company, Minneapolis, Minn. Filed July 24, 1952, Serial No. 632,970.

Allen

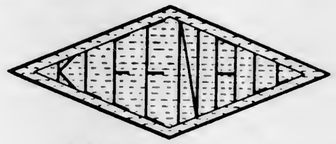
Applicant claims ownership of Registration No. 559,478.
For Men's Jewelry, Consisting in Cuff Links of All Types, Tie Slides, Tie Bars, Tie Chains, Watch Chains, Key Chains, Collar Pins, Studs, Money Clips, and Sets Combining Two or More of the Foregoing Items, Made Wholly or Partly of, or Plated With Precious Metal.
Claims use since Apr. 18, 1950.

585,584. (Class 18. Medicines and Pharmaceutical Preparations.) W. K. Max Hassenstein, doing business under the name Hassenstein Company and Normalaids Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Oct. 11, 1952; amended to application, Supplemental Register, Sept. 14, 1953, Serial No. 636,527.

NORMALAIDS

For Nutritional Supplement for Use in Protein Deficiency.
Claims use since July 29, 1952.

585,585. (Class 52. Detergents and Soaps.) H & K Manufacturing Company, Laramie, Wyo. Original filed, act of 1946, Principal Register, Oct. 18, 1952; amended to application, Supplemental Register, Aug. 10, 1953, Serial No. 636,848.



For Cleaning Compound of Detergent Character Impregnated in a Sponge To Be Used for the Cleaning of Utensils, Walls, Furniture, Woodwork, and for Other Household Cleaning.
Claims use since Mar. 12, 1948.

585,586. (Class 46. Foods and Ingredients of Foods.) Hygrade Food Products Corporation, Detroit, Mich. Original filed, act of 1946, Principal Register, Nov. 4, 1952; amended to application, Supplemental Register, Nov. 10, 1953, Serial No. 637,589.



Applicant claims ownership of Registrations Nos. 245,826, 386,955, and others.
For Bacon.
Claims use since Oct. 23, 1952.

585,587. (Class 24. Laundry Appliances and Machines.) Theodore Himberger, Omaha, Nebr. Original filed, act of 1946, Principal Register, Nov. 28, 1952; amended to application, Supplemental Register, Dec. 3, 1953, Serial No. 638,718.

SAG GON

For Clothesline Reel.
Claims use since on or about Nov. 1, 1952.

585,588. (Class 2. Receptacles.) The Marcus Company, Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Feb. 16, 1953; amended to application, Supplemental Register, Nov. 9, 1953, Serial No. 642,291.

SHOE-KNIT

For Folding Paper Boxes.
Claims use since July 1, 1952.

585,589. (Class 2. Receptacles.) Farrington Manufacturing Company, Jamaica Plain, Boston, Mass. Original filed, act of 1946, Principal Register, Feb. 18, 1953; amended to application, Supplemental Register, Nov. 27, 1953, Serial No. 642,396.

Canterbury

For Jewel Cases Made of Decorative Fabric Covered Metal.
Claims use since September 1952.

585,590. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) Cooper Tire & Rubber Company, Findlay, Ohio. Original filed, act of 1946, Principal Register, Mar. 10, 1953; amended to application, Supplemental Register, Nov. 30, 1953, Serial No. 643,409.

SAFETY CUSHION

For Automobile Tires.
Claims use since Sept. 15, 1952.

585,591. (Class 1. Raw or Partly Prepared Materials.) Harry T. Campbell Sons' Corp., Towson, Md. Filed Mar. 23, 1953, Serial No. 644,008.

DON'T WAIT 'TIL THEY DIE; KEEP THE LITTER DRY.

For Dry Ground Limestone in Use in Poultry Houses as a Drying Agent To Build Up the Poultry Litter.
Claims use since Nov. 1, 1950.

585,592. (Class 46. Foods and Ingredients of Foods.) Charles Freedman, El Centro, Calif. Filed May 5, 1953, Serial No. 646,470.

GREENLEAF

Applicant claims ownership of Registration No. 258,685.
For Fresh Vegetables.
Claims use since May 2, 1928.

585,593. (Class 16. Protective and Decorative Coatings.) Standard Color & Chemical Co., Inc., North Bergen, N. J. Original filed, act of 1946, Principal Register, July 28, 1953; amended to application, Supplemental Register, Nov. 27, 1953, Serial No. 651,018.

SKIN-OFF

For Vinyl Liquid Used for Spraying Surfaces To Produce a Removable Protective Film.
Claims use since July 2, 1951.

TRADE-MARK REGISTRATIONS RENEWED

41,318. FONO. Registered Oct. 20, 1903. Sir Isaac Pitman & Sons, Ltd., Bath, England. Re-renewed Oct. 20, 1953, to Sir Isaac Pitman & Sons Limited, London, England, a share company organized under the laws of England. Writing-Paper. Class 37.

41,614. REPRESENTATION OF TROPICAL SCENE, ETC. Registered Dec. 8, 1903. Abdulla & Company Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Re-renewed Dec. 8, 1953. Cigarettes. Class 17.

42,194. CONSTRUCTION. Registered Mar. 8, 1904. W. E. Wroe & Company. Re-renewed Mar. 8, 1954, to Bradner Smith & Company, Chicago, Ill., a corporation of Illinois. Bond-Paper. Class 37.

94,667. PYRENE. Registered Dec. 23, 1913. Pyrene Manufacturing Co., New York, N. Y. Re-renewed Dec. 23, 1953, to Pyrene Manufacturing Company, Newark, N. J., a corporation of Delaware. Fire-Extinguishing Compounds. Class 6.

94,725. LAMBSDOWN. Registered Dec. 30, 1913. Daniel W. Farnsworth, Montclair, N. J., and New York, N. Y. Re-renewed Dec. 30, 1953, to Daniel W. Farnsworth, New York, N. Y. Flannel and Woolen Piece Goods. Class 42.

95,276. WILLIAMS'. Registered Feb. 3, 1914. The J. B. Williams Company, Glastonbury, Conn., a corporation of Connecticut. Re-renewed Feb. 3, 1954. Toilet Soap. Class 52.

95,608. STANDARD. Registered Mar. 3, 1914. Henry Disston & Sons, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Mar. 3, 1954. Saws. Class 23.

95,748. "IVY" AND DESIGN. Registered Mar. 10, 1914. Corset H Company. Re-renewed Mar. 10, 1954, to Ivy Corset Company, Worcester, Mass., a corporation of Massachusetts. Corsets, Brassières, Bust-Supporters, To Be Used Either With or Without Corsets and for Corset-Waists. Class 39.

307,870. HERALD. Registered Nov. 7, 1933. Fox River Paper Company. Renewed Nov. 7, 1953, to Fox River Paper Corporation, Appleton, Wis., a corporation of Wisconsin. Bond Paper. Class 37.

307,889. "EVENTIDE" ETC. AND DESIGN. Registered Nov. 7, 1933. F. C. Huyck & Sons, Rensselaer and Albany, N. Y. Renewed Nov. 7, 1953, to F. C. Huyck & Sons, Albany, N. Y., a corporation of New York. Blankets. Class 42.

307,891. "FAMOUS" ETC. AND DESIGN. Registered Nov. 7, 1933. F. C. Huyck & Sons, Rensselaer and Albany, N. Y. Renewed Nov. 7, 1953, to F. C. Huyck & Sons, Albany, N. Y., a corporation of New York. Blankets. Class 42.

307,892. "REVERIE THROW" ETC. AND DESIGN. Registered Nov. 7, 1933. F. C. Huyck & Sons, Rensselaer and Albany, N. Y. Renewed Nov. 7, 1953, to F. C. Huyck & Sons, Albany, N. Y., a corporation of New York. Blankets. Class 42.

307,893. "MANOR" ETC. AND DESIGN. Registered Nov. 7, 1933. F. C. Huyck & Sons, Rensselaer and Albany, N. Y. Renewed Nov. 7, 1953, to F. C. Huyck & Sons, Albany, N. Y., a corporation of New York. Blankets. Class 42.

307,894. "SUPREME" ETC. AND DESIGN. Registered Nov. 7, 1933. F. C. Huyck & Sons, Rensselaer and Albany, N. Y. Renewed Nov. 7, 1953, to F. C. Huyck & Sons, Albany, N. Y., a corporation of New York. Blankets. Class 42.

307,896. "SLUMBER THROW" ETC. AND DESIGN. Registered Nov. 7, 1933. F. C. Huyck & Sons, Rensselaer and Albany, N. Y. Renewed Nov. 7, 1953, to F. C. Huyck & Sons, Albany, N. Y., a corporation of New York. Blankets. Class 42.

307,955. "ONLY GENUINE NATIONAL INK PADS ARE DOTTED" AND DESIGN. Registered Nov. 14, 1933. The National Marking Machine Company, Cincinnati, Ohio, a corporation of Ohio. Renewed Nov. 14, 1953. Ink Pads. Class 11.

308,100. ARISTOCRAT. Registered Nov. 21, 1933. Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Renewed Nov. 21, 1953, to California Wine Association, San Francisco, Calif., an association of California. Wines. Class 47.

308,106. GOLDEN PLY. Registered Nov. 21, 1933. The B. F. Goodrich Company, New York, N. Y. Renewed Nov. 21, 1953, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Pneumatic Tires. Class 35.

308,122. REPRESENTATION OF BARREL. Registered Nov. 21, 1933. Berry Bros. & Co. Renewed Nov. 21, 1953, to Berry Bros. & Rudd Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Spirits—Namely, Brandy, and Other Potable Distilled Liquors. Class 49.

308,123. REPRESENTATION OF BARREL. Registered Nov. 21, 1933. Berry Bros. & Co. Renewed Nov. 21, 1953, to Berry Bros. & Rudd Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Wines. Class 47.

308,127. GLEEM. Registered Nov. 21, 1933. Lisle D. Hoskins, Chicago, Ill. Renewed Nov. 21, 1953, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Nail Gloss. Class 51.

308,487. "W. S. B CO" AND DESIGN. Registered Dec. 5, 1933. Westcott, Slade and Balcom Company, Providence, R. I., a corporation of Rhode Island. Renewed Dec. 5, 1953. Dry, Paste, and Ready Mixed Paints, Varnish, Prepared Shellac, and Putty. Class 12.

308,534. 55 SALEM. Registered Dec. 5, 1933. Johns-Manville Corporation, New York, N. Y., a corporation of New York. Renewed Dec. 5, 1953. Asbestos Shingles and Roofing. Class 12.

308,694. CURIO. Registered Dec. 19, 1933. Mabrand Products, Inc., Long Island City, N. Y. Renewed Dec. 19, 1953, to R. H. Macy & Co., Inc., New York, N. Y., a corporation of New York. Tea and Coffee. Class 46.

308,787. AMBASSADOR. Registered Dec. 19, 1933. Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Renewed Dec. 19, 1953, to California Wine Association, San Francisco, Calif., an association of California. Wines. Class 47.

308,896. "SHERWOOD OIL BURNER" AND DESIGN. Registered Dec. 26, 1933. Sherwood Bros., Inc., Baltimore, Md., a corporation of Maryland. Renewed Dec. 26, 1953. Oil Burners. Class 34.

308,938. "ALLGON" AND DESIGN. Registered Dec. 26, 1933., United Chemical Company, Inc., Kansas City, Mo., a corporation of Missouri. Renewed Dec. 26, 1953. Liquid Insecticide. Class 6.

308,974. REPRESENTATION OF CROSS-SECTIONAL VIEW OF TIRE LINED FOR YELLOW. Registered Dec. 26, 1933. The B. F. Goodrich Company, New York, N. Y. Renewed Dec. 26, 1953, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Pneumatic Tires. Class 35.

309,493. "COGNAC" ETC. AND DESIGN. Registered Jan. 16, 1934. Thos. Hine & Co., Jarnac, France, a corporation organized under the laws of the Republic of France. Renewed Jan. 16, 1954. Cognac Brandy. Class 49.

309,624. BRONCHO BILL. Registered Jan. 23, 1934. United Feature Syndicate, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 23, 1954. Comic Strip. Class 38.

309,673. HOW IT BEGAN. Registered Jan. 23, 1934. United Feature Syndicate, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 23, 1954. Series of Illustrated Topics of Interest Appearing in a Newspaper. Class 38.

309,693. EVERYDAY RELIGION. Registered Jan. 23, 1934. United Feature Syndicate, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 23, 1954. Section or Column Appearing in a Newspaper or Periodical. Class 38.

309,694. THE YOUNG IDEAR. Registered Jan. 23, 1934. United Feature Syndicate, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 23, 1954. Comic Strip Appearing in a Newspaper. Class 38.

309,734. CRUX. Registered Jan. 30, 1934. Northern Cocoanut Products Corporation, New York, N. Y., and Chicago, Ill. Renewed Jan. 30, 1954, to The Best Foods, Inc., New York, N. Y., a corporation of New Jersey. Oleomargarine. Class 46.

309,845. "HOSPITALIS" AND DESIGN. Registered Feb. 6, 1934. United Chemical Company, Inc., Kansas City, Mo., a corporation of Missouri. Renewed Feb. 6, 1954. Cresol Disinfectant. Class 6.

310,026. FOOT-TEE. Registered Feb. 6, 1934. Chas. Chipman's Sons Co., Inc., New York, N. Y., a corporation of New York. Renewed Feb. 6, 1954. Hosiery. Class 39.

310,374. "RED STAR" AND REPRESENTATION OF STAR LINED FOR RED. Registered Feb. 20, 1934. R. H. Macy & Co., Inc., New York, N. Y., a corporation of New York. Renewed Feb. 20, 1954. Wines. Class 47.

310,412. SETIT. Registered Feb. 27, 1934. The Titanium Alloy Manufacturing Company, Niagara Falls, N. Y. Renewed Feb. 27, 1954, to National Lead Company, New York, N. Y., a corporation of New Jersey. Chemical Compounds Used in the Manufacture of Enamels and Glazes. Class 6.

310,951. "CORNELL" AND DESIGN. Registered Mar. 13, 1934. The Pep Boys—Manny, Moe & Jack, doing business as Cornell Tire & Rubber Co., Akron, Ohio, and Philadelphia, Pa. Renewed Mar. 13, 1954, to The Pep Boys—Manny, Moe & Jack, Philadelphia, Pa., a corporation of Pennsylvania. Adhesive Vulcanizing Cement, Running Board Covering Cement, and Running Board Cement. Class 5.

311,244. CAMPANA. Registered Mar. 20, 1934. Campana Corporation, Batavia, Ill., a corporation of Delaware. Renewed Mar. 20, 1954. Astringents, Skin Lotions, After Shaving Lotions, Face Powders. Class 51.

311,567. BOCCONCINI. Registered Mar. 27, 1934. B. Filippone & Co., assignor to B. Filippone & Co. Inc. Renewed Mar. 27, 1954, to B. Filippone & Co., Inc., Passaic, N. J., a corporation of New Jersey. Macaroni. Class 46.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

583,710. CATFISH COCKTAIL. Registered Dec. 15, 1953. Joyce D. Ashley, doing business under the names Cotton Ashley and Ashley Bait Co., Macksville, Kans. Canned Fish Bait. Class 22. Corrected as follows: In the certificate, line 15, for "her heirs or assigns" read *his heirs or assigns*.

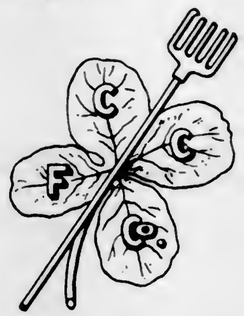
TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 224,927. Registered Mar. 8, 1927. Clover Fork Coal Company, Kitts, Ky., a corporation of Kentucky. Republished by registrant.



For Coal.
Claims use since Aug. 17, 1926.

CLASS 17

TOBACCO PRODUCTS

Reg. No. 89,518. Registered Dec. 17, 1912. H. Upmann & Co., Havana, Cuba. Republished by Menendez Garcia y Compania Limitada, Havana, Cuba, a company incorporated under the laws of Cuba.



For Cigars.
Claims use since the year 1846.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 64,701. Registered Aug. 20, 1907. Farwell, Ozmun, Kirk & Co., St. Paul, Minn., a corporation of Minnesota. Republished by registrant.

QUEEN

For Shears, Scissors, Razors, and Pocket Knives.
Claims use since 1871.

Reg. No. 65,209. Registered Sept. 10, 1907. Farwell, Ozmun, Kirk & Co., St. Paul, Minn., a corporation of Minnesota. Republished by registrant.

SOLID
UTAH METAL

For Knives and Forks.
Claims use since 1890.

Reg. No. 195,032. Registered Feb. 17, 1925. The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut. Republished by registrant.

NB

For Screw Machines, Chucking Machines, Wrenches, and Socket Sets.
Claims use since 1919.

Reg. No. 195,979. Registered Mar. 10, 1925. The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut. Republished by registrant.

NONE BETTER

For Screw Machines, Chucking Machines, Wrenches, and Socket Sets.
Claims use since 1917.

Reg. No. 195,981. Registered Mar. 10, 1925. The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut. Republished by registrant.

NEW BRITAIN

For Screw Machines, Chucking Machines, Wrenches, and Socket Sets.
Claims use since August 1895.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 201,978. Registered Aug. 11, 1925. Newcastle Fruit Growers Association, Newcastle, Calif., a corporation of California. Republished by registrant.

COVERED WAGON

For Fresh Deciduous Fruits.
Claims use since Mar. 13, 1925.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 87,427. Registered July 16, 1912. Coates & Company, Plymouth, England. Republished by Coates & Co., (Plymouth) Limited, Plymouth, England, a Company of the United Kingdom of Great Britain and Northern Ireland.



For Straight Dry Gin.
Claims use since Jan. 1, 1882.

Reg. No. 327,789. Registered Sept. 3, 1935. Gooderham & Worts limited, Detroit, Mich., a corporation of Delaware. Republished by registrant, present address Peoria, Ill.

Primrose

For Whiskey.
Claims use since on or about Apr. 15, 1935.

REISSUES

FEBRUARY 9, 1954

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

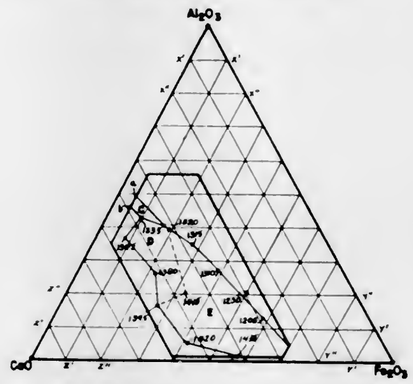
23,778

METHOD OF FLUIDIZING SLAG IN THE MANUFACTURE OF STEEL BY OPEN HEARTH AND ELECTRIC FURNACE PROCESSES

James J. Bowden, Warren, Ohio

Original No. 2,597,851, dated May 27, 1952, Serial No. 78,506, February 26, 1949. Application for reissue June 16, 1953, Serial No. 362,175

10 Claims. (Cl. 75—54)



4. The method of conditioning open hearth and electric furnace slags in steel manufacture, which slags contain dicalcium silicate and free lime, comprising the steps of adding to the slag a mineral having a M. P. of substantially 1205–1435° C. and whose components of initial formation were lime, alumina and iron oxide, and having the percentage relation to each other as shown in area E of the accompanying drawing, which slag has been formed by heating a charge of metallic iron to be converted and calcium oxide, employing substantially one-half to ten pounds of the aforesaid mineral per ton of total iron melted, the temperature of the furnace being above the M. P. of the charge and still further above the M. P. of the aforesaid mineral but below the M. P. of dicalcium silicate, the addition of the mineral fluidizing the slag by melting of the mineral which then combines with components of the slag.

23,779

SELECTIVE SOLVENT EXTRACTION OF PETROLEUM

John Q. Cope, El Cerrito, and William H. Claussen, Berkeley, Calif., assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware

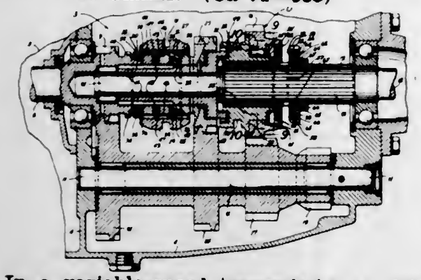
Original No. 2,343,611, dated March 7, 1944, Serial No. 357,892, September 23, 1940, which is a division of Serial No. 159,522, August 17, 1937. Application for reissue April 9, 1953, Serial No. 347,859

10 Claims. (Cl. 196—14.31)

1. A process of separating components of a complex mixture containing aromatic and non-aromatic carbon compounds having overlapping boiling ranges which comprises passing said mixture through an extraction zone, passing a liquid phase selective solvent through said extraction zone, intimately contacting said mixture with said liquid phase selective solvent, maintaining said selective solvent in said zone at a temperature no lower than the boiling point of said mixture, separating a vapor phase non-aromatic raffinate from said liquid phase solvent, removing the liquid phase solvent containing dissolved aromatic hydrocarbons from said extraction zone, passing said solvent together with its dissolved compounds to a separate stripping zone, maintaining a seal between said solvent extraction and stripping zones to prevent undesired return of vaporized compounds, and altering the conditions in said extraction zone by returning to said zone controlled amounts of vapor phase hydrocarbons stripped from said solvent phase in said stripping zone, said controlled amounts consisting of only the more readily vaporized portion of the hydrocarbons dissolved in said selective solvent.

10. A process of separating aromatic components of a complex mixture containing aromatic and non-aromatic hydrocarbon compounds including paraffinic hydrocarbons having overlapping boiling ranges in which the least volatile paraffinic hydrocarbon normally boils from approximately 20° to 60° F. above the normal boiling point of the most volatile aromatic hydrocarbon present in said mixture whereby an extract free from these higher boiling compounds can be produced which comprises passing said mixture through an extraction zone, passing a liquid phase selective solvent through said extraction zone, intimately contacting said mixture with said liquid phase selective solvent, maintaining said selective solvent in said zone at a temperature no lower than the boiling point of said mixture, separating a vapor phase non-aromatic raffinate from said liquid phase solvent, removing the liquid phase solvent containing dissolved aromatic hydrocarbons from said extraction zone, passing said solvent together with its dissolved compounds to a separate vaporizing zone, maintaining a seal between said solvent extraction and vaporizing zones to prevent undesired return of vaporized compounds, vaporizing only a portion of the hydrocarbons dissolved in said solvent in said vaporizing zone, and returning said vaporized hydrocarbons to said solvent extraction zone.

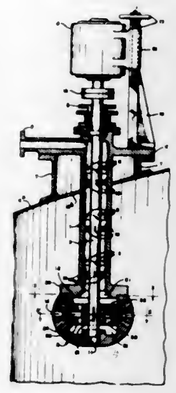
23,780
AUTOMOTIVE VARIABLE-SPEED TRANSMISSION AND CONTROL MECHANISM THEREFOR
Glenn T. Randol, Mountain Lake Park, Md.
Original No. 2,578,740, dated December 18, 1951, Serial No. 671,088, May 20, 1946. Application for reissue February 19, 1952, Serial No. 272,462
38 Claims. (Cl. 74—333)



1. In a variable-speed transmission, a driven shaft, a gear surrounding the shaft and slidably supported thereby and adapted to be driven by a meshed condition with another gear, an overrunning clutch *operably* interposed between the gear and the driven shaft, two-way drive connecting means between the gear and the driven shaft, and means for driving the driven shaft at a speed differing from that at which the driven shaft can be driven through the slidable gear, said two-way drive connecting means and said last-named means being controlled by sliding movement of the gear and being selectively operable at two positions of the gear, the gear at each position having a meshed condition with another gear and being driven thereby.

23,781
SPRAYING DEVICE
Hermann C. Schutt, Framingham, Mass., assignor to Stone & Webster Engineering Corporation, Boston, Mass., a corporation of Massachusetts
Original No. 2,602,002, dated July 1, 1952, Serial No. 111,515, August 20, 1949. Application for reissue July 1, 1953, Serial No. 365,573
13 Claims. (Cl. 299—63)

1. A spray device comprising a spray head having a valving rotor chamber to be supplied with fluid material under pressure and having separate sets of dispersion nozzles through which said fluid is adapted to be discharged from said chamber; means for supplying fluid material under pressure to said chamber; a valving rotor adjustable axially of its rotational axis with respect to said sets of nozzles, said rotor being internally channelled and apertured to provide at least one continuous passageway for leading said fluid material from said chamber into said nozzles, each said passageway terminating at the



circumferential periphery of said rotor in a discharge opening movable into and out of register with successive nozzles, whereby on rotation of said rotor said discharge opening may be moved progressively into and then out of register with successive nozzles, the flow of said fluid material through each of said successive nozzles being intermittently interrupted by said movement of said opening into and out of register with said nozzles; and, means for selectively positioning said valving rotor relative to said sets for admitting fluid material to one or more of said sets, at will.

PLANT PATENTS

GRANTED FEBRUARY 9, 1954

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,250
GRAPEVINE
Paul K. Fujihara, Del Rey, Calif.
Application July 27, 1953, Serial No. 370,659
1 Claim. (Cl. 47—62)

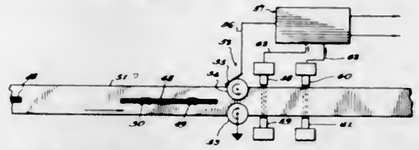
The variety of grape vine herein described and illustrated characterized by its vigorous growing habits; by excessively heavy crops when unthinned; and by large, long, shouldered, slightly branching bunches of substantially spherical, clear dull green-yellow to barium yellow berries containing seeds which are particularly characterized by uniformity in size, color, shape, and speed of maturation within their respective bunches and by early ripening for grapes of such size and color; said berries maturing approximately thirty days earlier than the Muscat of Alexandria, its parent vine having somewhat the same colored berries, and about two and one half weeks earlier than its other parent the Red Malaga (Molinera Castiza) having red berries, under similar growing conditions.

PATENTS

GRANTED FEBRUARY 9, 1954

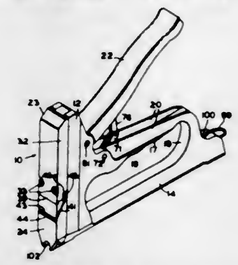
GENERAL AND MECHANICAL

2,668,289
STITCH FAILURE DETECTOR
Harry Conrad and Lee Bowers, Mount Morris, Ill.
Application March 10, 1951, Serial No. 214,965
24 Claims. (Cl. 1—4)



1. A stitch failure detector for testing stitches formed in a product, comprising a control tube, plate current control means within said tube, actuating means adapted to be operated by the plate current, stitch sensing means to place a first control voltage on said plate current control means in response to the testing of a properly made stitch, and product position sensing means adapted to regulate the placement of a second control voltage on said plate current control means in response to the positioning of said product, whereby the testing of a faulty stitch will cause the actuating means to operate.

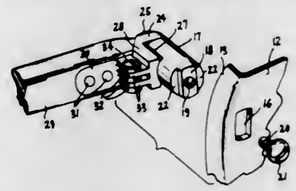
2,668,290
FRONT COVER MEANS FOR STAPLING MACHINES
Harold S. Heller, Cleveland Heights, Ohio
Application August 10, 1949, Serial No. 109,483
22 Claims. (Cl. 1—49)



1. In a staple tacker, a frame having an elongated chambered head portion for the reception of staple driving mechanism, the lower end section of the chamber of said head portion being open at its front, a front cover member for the lower end section of said chamber, and spring catch wire means on said head portion having a straight section releasably securing said cover member to said head portion.

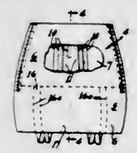
2,668,291
EYE PROTECTIVE DEVICE
George H. Schauweker, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application May 23, 1952, Serial No. 289,604
5 Claims. (Cl. 2—14)

1. An eye protective device comprising a cupped member shaped to surround the eyes of a wearer and having a frontal portion of transparent material and a continuous wall extending rearwardly from said frontal portion and terminating in an outwardly flared face-engaging flange, said continuous wall having an opening in each temporal region thereof spaced slightly inwardly of the adjacent portion of said flange, temple supporting members having end portions shaped to co-mate with the respective openings in said walls and being adapted to be inserted therein from the outside of the cupped member, attachment means secured to said end portions and adapted to be attached thereto from the inside of the cupped



member for retaining said temple supporting members substantially immovable in said openings, said temple supporting members being of a length to extend beyond the edge of the flange and each having a reduced end portion, and stop means formed on the side thereof toward the wearer's face, first hinge member rotatably mounted on and extending rearwardly of said reduced portions and axially movable thereabout to the extent permitted by said stop means, and second hinge members hingedly connected with said first hinge members for attachment of temple members to the device.

2,668,292
MATERNITY GARMENT
Jacob L. Alberts, Yonkers, Leon N. Alberts, New York, and Sydney S. Alberts, Yonkers, N. Y., assignors to Charma Brassiere Company, Inc., a corporation of New York
Application December 28, 1949, Serial No. 135,496
13 Claims. (Cl. 2—27)



1. A garment of the class described constructed and arranged to encircle the body and having at least one section comprising two layers, one of said layers being extensible in one direction and the other layer being of material which is non-extensible in the direction of extension of said extensible layer, said non-extensible material being secured at its opposite side edges to said extensible layer and having portions normally not forming an effective part of said non-extensible layer, said portions being selectively releasable to form an effective part of said

non-extensible layer to increase the effective dimension thereof in the direction of extension of the extensible layer, whereby the extension of said extensible layer may be gradationally controlled.

2,668,293
COMBINATION BLOUSE
Leonard L. Levy, Cedarhurst, N. Y.
Application February 13, 1951, Serial No. 210,686
2 Claims. (Cl. 2—105)



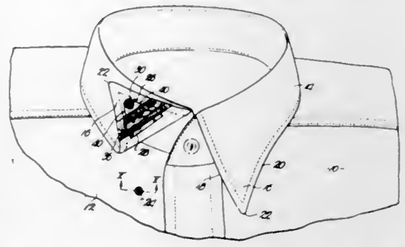
1. A blouse comprising an envelope-like body member having open top and bottom ends and provided with oppositely positioned armhole portions, the body member inwardly converging from the bottom end to a waist portion and then having upper portions diverging from the waist portion to the top end, the upper portions of the body member being substantially larger than the lower portions, the top end of said body above the armholes being formed to provide a neck portion for enabling the neck portion to be worn high around the neck of the wearer and loosely around the shoulders thereof selectively, means for gathering said neck portion high around the neck of the wearer and releasable lateral fastening means for the blouse body for enabling the ready donning and removing of the garment.

2,668,294
DISPOSABLE HOSPITAL GOWN
Phyllis B. Gilpin, Woodacres, Md.
Application April 2, 1951, Serial No. 218,800
1 Claim. (Cl. 2—114)



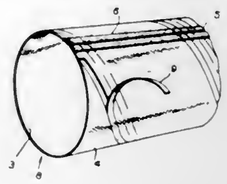
A disposable hospital gown of the character described comprising a main section of flexible nonwoven fibrous material of substantial length shaped to fit substantially entirely around a person's body, said gown having shoulder portions, respective flexible sleeves connected to the opposite shoulder portions of said main section, a pair of spaced tubular headings integrally formed at the end portion of each sleeve and extending around said sleeves, respective elastic bands in the headings, whereby each pair of bands defines an elastic cuff at the end of a sleeve, a neckpiece of relatively soft material secured to the top marginal portion of said main section and formed with elongated extensions at its ends adapted to be tied together, a tubular heading integrally formed at the midportion of said main section and extending around said midportion, and a tie string in said last-named tubular heading.

2,668,295
SHIFTABLE ATTACHMENT FOR SHIRT COLLAR TABS
Fernando Romero Garrido, Guatemala City, Guatemala
Application February 12, 1951, Serial No. 210,465
2 Claims. (Cl. 2—132)



1. In a shirt having a collar provided with a substantially triangular-shaped flap having a pair of edges converging into a free corner normally overlying the shirt front, a hold-down device for said flap comprising a strap between the shirt and the flap and secured to the latter between said edges; a flap-stiffening plate disposed between the flap and said strap for sliding movement on the flap and the strap toward and away from said corner; and a fastener interconnecting the plate and the shirt, said fastener having releasably joined parts.

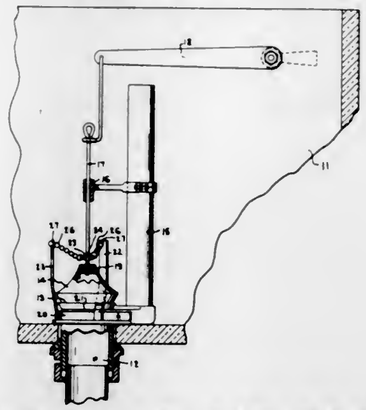
2,668,296
BIAS WOVEN NARROW FABRIC
Herman P. Welch, Union City, Ind., assignor to Backstay Welt Company, Union City, Ind., a corporation of Indiana
Application July 21, 1950, Serial No. 175,165
4 Claims. (Cl. 2—274)



1. A strip of coated fabric of indefinite length and relatively narrow width having a bias woven textile base comprising a plurality of sections arranged end to end and connected by joints each extending oblique angularly across the strip and comprising the two end margins of the two adjacent sections each reversely folded over onto and adhesively secured to the body of the section of which it is a part, with a line of stitching connecting the strips at the fold line where each margin merges with the body of its section,

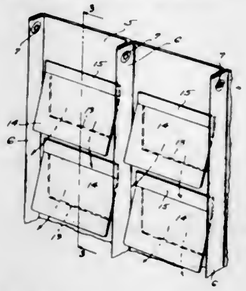
and with a single continuous coating of adhesive covering the line of stitching and the adjacent margins and the adjacent zones of the sections.

2,668,297
FLUSH TANK VALVE
Frank S. Reed, Florence, Ky.
Application August 8, 1950, Serial No. 178,189
3 Claims. (Cl. 4—57)



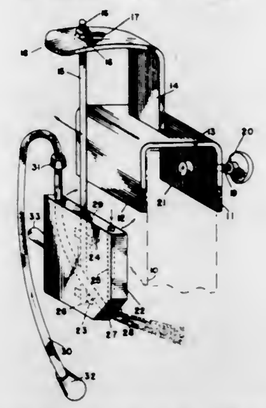
1. In combination with a flush tank valve, a guide stem extending upwardly from said valve, a guide for said stem, a frame having three equiangularly spaced arms extending upwardly about said valve, a second guide slidable on said valve stem, and chains connecting said second guide with the upper ends of said arms for centering said valve.

2,668,298
VENTILATED SHOWER CURTAIN
Jewel I. Kimmons, Miami, Fla.
Application October 19, 1949, Serial No. 122,327
1 Claim. (Cl. 4—154)



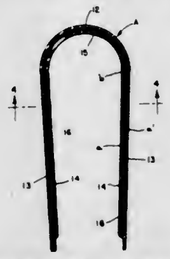
A curtain for shower baths formed of flexible material and provided with vertically arranged pleats throughout its height equidistantly spaced, said curtain provided with vertically arranged rows of equidistantly vertically spaced rectangular openings between each pair of pleats, angularly disposed flexible shields arranged over each opening with the upper edge of each shield cemented to the curtain along a line parallel with the upper edge of the openings, the said shields from their point of attachment extending outwardly and downwardly to completely overlie the openings, the said shields being flexible with the curtain, the lower ends of the curtain folded upon itself to form a gutter with its ends closed, said gutter provided with a plurality of drain openings in its bottom.

2,668,299
HYDROPNEUMATIC MASSAGER
Leon Josef Steinberg, Baltimore, Md.
Application October 15, 1951, Serial No. 251,297
1 Claim. (Cl. 4—180)



A hydrotherapy apparatus usable in combination with a bath tub, comprising a portable block, a handle secured to said block on one face thereof, said block having an oblique face at a corner thereof opposed to the location of the handle whereby said block may be manipulated by means of the handle to position the oblique face towards any selected direction, said block having a water passage therethrough connectible at one end to a source of water pressure, the opposite end of said passage having a port opening flush with the oblique face, said block also having an air passage having a port opening at one end flush with the upper face of the block and said air passage having its opposite end provided with a port opening flush with the oblique face and juxtaposed to the port opening of the water passage whereby water issuing through the water passage sucks air through the air passage to be mixed with the water, angularly adjustable means for securing said block on the rim of the bath tub following the positioning of the block by means of the handle, and a removable nozzle connectible to the oblique face at the point of issuance of the aforesaid water and air passages.

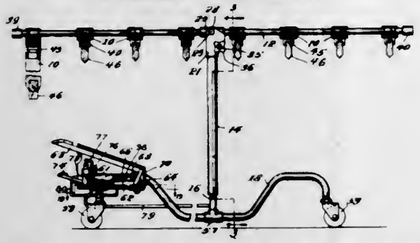
2,668,300
GUARD FOR SINK WALLS
Martin F. Grill, Hopkins, Minn.
Application March 8, 1951, Serial No. 214,501
4 Claims. (Cl. 4—187)



1. A guard for sink-walls comprising an elongated buffer of inverted U-shape in transverse cross section adapted to straddle the wall of a sink, said buffer consisting of a pad of resilient material having channel-defining ribs with bear-

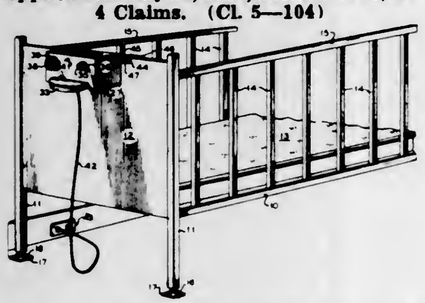
ing faces outstanding from the inner face of the pad, the ribs extending transversely of the pad across its intermediate and marginal portions, and stiffening means incorporated within said ribs of said pad stiffening the same therealong and preventing the pad from creeping from one side to other of the sink-wall.

2,668,301
BED PATIENT ELEVATOR
Orice J. Brouillette, Galesburg, Ill.
Application March 7, 1950, Serial No. 148,141
2 Claims. (Cl. 5—86)



1. In an elevator for bed patients, the combination which comprises a rectangular shaped frame having spaced side and end members with spaced straps having buckles therein extended across the said side members, a plurality of telescoping posts extended downwardly from the said side member of the frame and positioned midway of the length of the said side members, gear casings mounted on the upper ends of the posts and in which the side members of the rectangular shaped frame are pivotally mounted, means in said gear casing for elevating either end of the rectangular shaped frame, base members carried on casters on which the said posts are mounted, means connecting the lower ends of the posts, and means for supplying fluid under pressure to the lower ends of the posts for extending the length of the posts.

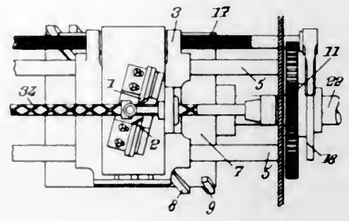
2,668,302
VIBRATING BED
Edward Dengrove, Interlaken, N. J.
Application May 26, 1949, Serial No. 95,437
4 Claims. (Cl. 5—104)



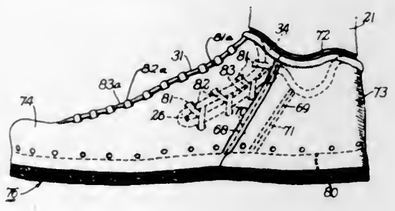
1. A bed, resilient cushioning means wholly supporting said bed and permitting vibration thereof, a vibrator mechanism secured to said bed for inducing vibrations therein.

2,668,303
MACHINE FOR CUTTING SCREW THREADS
André Christen, Limeil-Brevannes, France
Application December 28, 1949, Serial No. 135,374
Claims priority, application France March 8, 1949
5 Claims. (Cl. 10—101)

1. A machine for cutting crossed threads in a cylindrical bar which comprises, in combination, a frame including bearing means for said bar, a carriage movable with respect to said frame in a direction parallel to the axis of said bar, a drum journalled in said frame parallel to said bar, means for driving said bar and said drum each constantly in the same direction, cooperating cam and follower means on said drum and said carriage for imparting a reciprocating movement to said carriage parallel to said bar in response to rotation of said drum always in the same direction, two tools mounted on said carriage movable with respect thereto only transversely to said direction and arranged for cutting threads in said bar in opposite directions, respectively, cam means having opposed working surfaces and operatively connected with said driving means and means actuated by said working surfaces for actuating said tools transversely to said carriage alternately in one direction and the other in response to successive reversals of the movement thereof to bring said tools alternately into working contact with said bar during opposed displacements of said carriage along said bar, respectively.

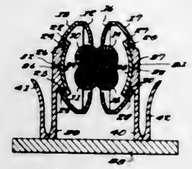


2,668,304
PROCESS OF MAKING SHOES FOR NORMAL WEAR
Alan E. Murray, New York, N. Y.
Application November 5, 1948, Serial No. 58,470
2 Claims. (Cl. 12—142)



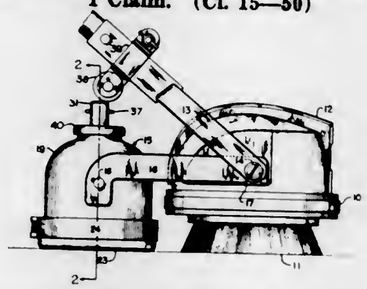
1. A process which comprises making an article of footwear by producing a form-retaining upper conforming intimately to the varying upper contours of a foot of the actual wearer thereof, said upper being provided with a bottom portion which covers the bottom of the foot, then securing to said bottom portion a substantially flat impressionable sole of plastic materials of substantially uniform thickness conformable at normal temperatures, by wearing, to the underneath contours of the foot, the flat sole margin extending far enough beyond the margin of the bottom portion of said upper so as to make a marginal recess, introducing a latex mud into said recess, and then so conforming the sole against pressure by the said foot while supported from above by the conforming contours of the upper.

2,668,305
COMB CLEANER
Emil Troendle, Apopka, Fla.
Application December 12, 1950, Serial No. 200,413
2 Claims. (Cl. 15—39)



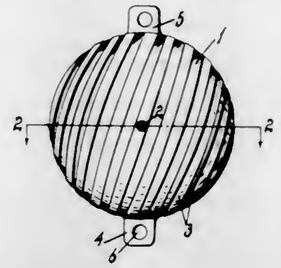
1. In a comb cleaner, the combination which comprises a pair of elongated hollow casings having front and rear walls, said casings being positioned so that the front walls thereof are in spaced parallel relation to each other, there being openings in the front walls and longitudinally disposed recesses with grooves in the edges thereof in the rear walls, pairs of cylindrical brushes journalled in said casings for relative rotation with regard to each other and with bristles of the brushes extended through the openings of the front walls thereof, a base, and bars having tongues on the edges thereof extended into the grooves of the recesses in the rear walls of the casings mounted on the said base, said base and bars positioning said casings with bristles of the brushes of one casing extended into bristles of the brushes of the other casing.

2,668,306
FLOOR POLISHER
Erhard O. Kohl, Massillon, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 13, 1950, Serial No. 184,658
1 Claim. (Cl. 15—50)



A combined floor polisher and waxer comprising, a body, polishing brushes rotatably carried by said body, a propelling handle pivoted to said body and extending upwardly and rearwardly therefrom during polishing operations, a wax containing receptacle at the rear of said body, a wax applicator secured to the bottom of said receptacle, a pair of arms pivoted to said receptacle and to said body whereby said receptacle is propelled along behind said body with said applicator resting upon the surface being polished, valve means in said receptacle for dispensing wax to said applicator and an actuator for said valve means positioned to be contacted by said handle upon downward pivotal movement thereof.

2,668,307
SEWER CLEANING BALL
Sidney D. Preen, Long Beach, Calif.
Application May 19, 1947, Serial No. 748,899
2 Claims. (Cl. 15—104.06)



1. A ball for cleaning adherent slime and other clogging material out of a pipe, comprising a generally spherical ball, means for attaching a control line to one side of the ball, and spaced ribs extending spirally along that outer central zone of the ball which is engageable with a close-fitting pipe bore when said attachment means is centered on the central axis of the bore, said ball being effective to release fluid between its ribbed zone and closely surrounding pipe bore for cleaning the bore when the ball is held by a line to said attachment means against fluid under pressure on said one side of the ball.

2,668,308
NONSLIP HANDLE FOR TOOTH OR DENTURE BRUSHES
Samuel H. Grossman, Oakland, Calif., assignor to Pauline Grossman, Oakland, Calif.
Application April 3, 1950, Serial No. 153,515
1 Claim. (Cl. 15—106)



A toothbrush comprising an elongated relatively flat stem having an upper and lower surface and provided with an integral end portion angularly related to the general plane of said stem, whereby the lower surfaces of said stem and end portion define an obtuse angle therebetween, said stem having a greater length than said end portion, a first group of bristles secured to the distal end of said end portion on the lower surface thereof, a second group of bristles secured to the distal end of said stem on the lower surface thereof, and integral portions of said stem extending transversely of the longitudinal axis of said stem from the opposed sides thereof to provide a pair of opposed shoulders disposed substantially normal to said axis, said shoulders

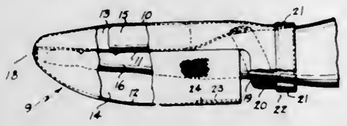
being disposed adjacent said angular related end portion, and diverging portions of said stem interconnecting the outermost portions of said shoulders and said end portion.

2,668,309

WASHCLOTH PROVIDED WITH POCKETS FOR A HAND OF THE USER AND A CAKE OF SOAP

George T. Colgan, Bridgeport, Conn.

Application September 14, 1949, Serial No. 115,617
2 Claims. (Cl. 15—122)



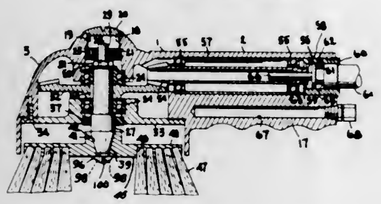
2. A wash cloth of the character described comprising three walls of flexible absorbent fabric material comprising two outer walls forming front and rear walls and an intermediate wall all lying side by side with the intermediate wall located between the front and rear walls, said walls being connected together at their opposite side edges and one end only forming a front soap pocket and a rear hand pocket each open at the other end and separated by the intermediate wall, said intermediate wall being provided adjacent the open ends of the pockets with an opening therethrough spaced inwardly from the free ends of this wall and the front wall for insertion of a hand of the user therethrough from the front pocket on one side of this wall into the rear pocket on the opposite side thereof, and the edges of said opening being bound by an elastic to grip the wrist of the hand so inserted.

2,668,310

NOZZLE STRUCTURE FOR ROTARY BRUSHING DEVICES

Joseph D. Conway, Cleveland Heights, Ohio

Application December 10, 1948, Serial No. 64,470
1 Claim. (Cl. 15—180)



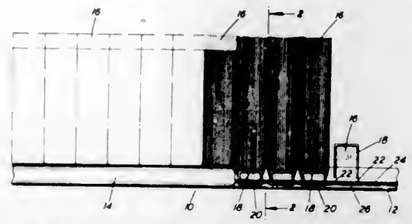
In a device of the character described, the combination of a hollow rotatable shaft, a conical end portion provided on said shaft, a brush assembly having a conical recess mounted directly on the end portion of said shaft, and a fastening element having a hollow stem portion threadedly secured to said shaft and a head abutting said brush assembly to maintain said assembly locked frictionally to said shaft, said head having a spherical outer surface and having openings extending angularly therethrough to direct a fluid under pressure from said hollow shaft and stem to said spherical surface and onto said brush assembly, said head being also provided with a slot adapted for the reception of a screw driver, whereby assembly and removal of said fastening element is facilitated.

2,668,311

BRUSH ELEMENT WITH FIBERS HELD IN CHANNEL MEMBER AND METHOD OF MAKING SAME

William A. Parry, Manchester, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut

Application November 29, 1949, Serial No. 129,905
16 Claims. (Cl. 15—199)



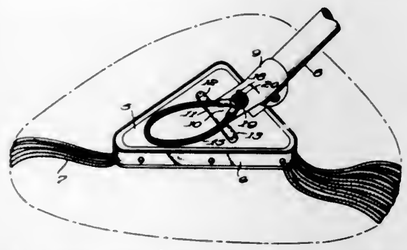
1. In a brush element, the combination of a thin walled metallic channel member having a rear wall and having two oppositely disposed side walls which converge forwardly to form a relatively narrow bite near the front, bunches of fibers longitudinally distributed along the channel member with their rear portions folded transversely within the channel of the said member adjacent the rear wall thereof, the fibers of the said bunches extending through and being gripped at the bite between the channel member side walls and projecting forwardly from the said channel member, and means engaging the rear folded portions of the said bunches of fibers to prevent forward and longitudinal movements thereof which means includes a longitudinal series of staples with the prongs of each staple extending rearwardly through individual holes in the rear wall of the channel member and bent to engage the rear face thereof.

2,668,312

MOP AND ATTACHMENT THEREFOR

Morris Solomon, Los Angeles, Calif.

Application July 14, 1951, Serial No. 236,769
9 Claims. (Cl. 15—229)



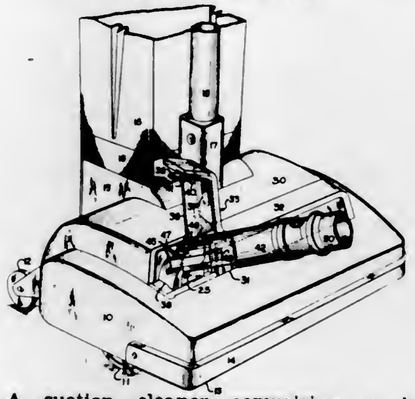
1. An attachment secured to a handle means swingably attached to a mop head: comprising a piece of resilient oval shaped wire which throughout its length is spirally wound, a socket member for each end portion of said coiled wire, the end portions of the coil into which said wire is formed being fitted within and secured to said socket member, said socket members each having an eyeletted end portion superimposed upon that of the other and forming a bolt hole usable to attach said oval shaped coiled wire to a swingable mop handle adjacent to its juncture to a mop head, in a position yieldingly to swing downwardly that side of said mop head which is farthest from the operator.

2,668,313

CONVERTER ARRANGEMENT FOR SUCTION CLEANERS

Dale C. Gerber, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application May 27, 1950, Serial No. 164,780
5 Claims. (Cl. 15—325)



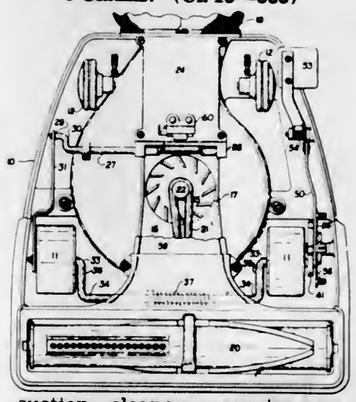
1. A suction cleaner comprising, a body mounted for ambulatory movement, suction producing means supported by said body, said body being formed with a downwardly facing suction nozzle and with a suction passageway connecting said nozzle to said suction producing means, a converter receiving opening formed in the upper wall of said suction passageway and a furniture guard of flexible material extending across the top front portion of said body having a section normally extending across said converter receiving opening to form a cover therefor and being movable upwardly independently of the remainder of said furniture guard to uncover said opening.

2,668,314

CONVERSION ARRANGEMENT FOR SUCTION CLEANERS

Louis E. Segesman, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Continuation of application Serial No. 115,668, September 14, 1949. This application January 26, 1950, Serial No. 140,711
5 Claims. (Cl. 15—333)



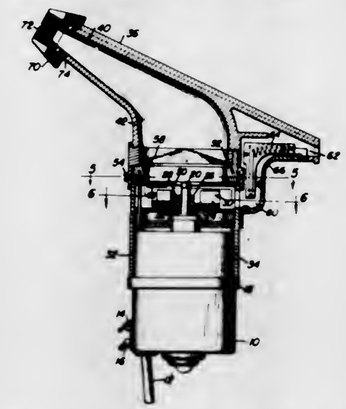
1. A suction cleaner comprising; a body formed with a forwardly extending suction nozzle, a central fan chamber, a suction passageway between the suction side of said fan chamber and said nozzle, an exhaust passageway extending rearwardly from the pressure side of said fan chamber to the rear of said body and a converter passageway communicating with said suction passageway and extending rearwardly to the rear of said body beneath said exhaust passageway; a valve in said converter passageway and normally closing off communication between said suction and converter passageways; supporting means for supporting said body for ambulatory movement over a surface to be cleaned; said supporting means including wheels movable toward and away from said body and normally biased to a position to position said nozzle at the proper height for optimum on-the-floor cleaning effectiveness and movable to a position to raise said nozzle to a proper height for off-the-floor cleaning, linkage means connecting said wheels and valve and operative to hold said valve in closed position while said wheels are biased to their on-the-floor cleaning position by the weight of said body and a manually actuatable range shifter having a plurality of stepped portions selectively operable to form stops to limit the movement of said wheels relative to said body for adjusting said nozzle to varying heights for optimum cleaning effectiveness for various types of on-the-floor cleaning.

2,668,315

HAIR VACUUM CLEANER

Wilbur D. Crosby, Orinda, Calif., assignor of twenty-five per cent to William L. Hillman, Orinda, and twenty-five per cent to John W. Crosby, Modesto, Calif.

Application May 1, 1950, Serial No. 159,315
2 Claims. (Cl. 15—344)



1. A vacuum cleaner of the hand type for cleaning hair and scale comprising an electric motor having a drive shaft, said motor including a casing as a part thereof, a nozzle body and means for mounting said nozzle body upon said motor casing whereby the latter constitutes a hand grip means for supporting the cleaner, a centrifugal fan mounted upon the drive shaft of said motor, said nozzle body having air inlet and discharge ports, passages in said nozzle body connecting said ports with the suction and discharge sides of said centrifugal fan, said nozzle body having a flexible nozzle on one end thereof communicating with said air inlet port, said nozzle having flexible fingers for massaging the scalp, said ports being disposed in laterally offset position on opposite sides of said nozzle body and having their axes in alignment and at an angle with respect to the longitudinal axis of the motor.

2,668,316
BUSHING
Mark J. Sturtevant, St. Clair Shores, Willem L. Weertman, Bloomfield Hills, and Warren D. Brown, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application August 29, 1950, Serial No. 182,032
5 Claims. (Cl. 16—2)



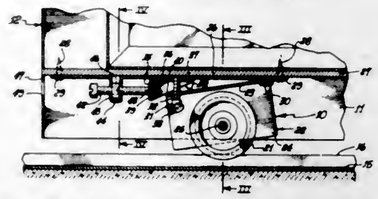
1. A bushing formed of readily yieldable material comprising a substantially tubular element having first and second opposed end portions that are shaped to provide an annular groove extending transversely about the outer surface of the tubular element at a location intermediate said end portions, one of said end portions having the outer surface thereof formed to present a tapering external configuration that extends longitudinally of the tubular element and diverges from the exposed end of said one end portion towards said other end portion, said tubular element having a split therethrough that extends lengthwise of the element between the exposed ends thereof, said split in side elevation being of V-shaped configuration to provide tongue and groove engaged means resisting relative movement longitudinally of said element of the portions of the tubular element on opposite sides of said split.

2,668,317
GUIDE DEVICE FOR A SLIDING DOOR
Charles B. Le Bon III, Pasadena, Calif., assignor to Arcadia Metal Products, Inc., Arcadia, Calif., a corporation of California
Application February 25, 1952, Serial No. 273,311
2 Claims. (Cl. 16—91)



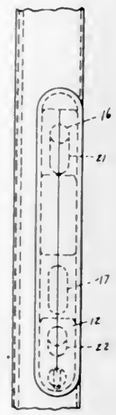
1. A guide device for use with a sliding door comprising a one-piece elongated resilient metal member of thin strip material slightly curved along its longitudinal axis and adapted to be disposed with its transverse axis vertical, said member including oppositely directed fork-like end portions and an intermediate portion of reduced width between said end portions; an anchor portion of the width of said end portions between the intermediate portions and one of said end portions and offset from the transverse center line of the member; each fork-like end portion including spaced parallel elements; said elements including inwardly curled end sections formed on the same side of said member, curled end sections of a pair of elements being formed on a constant radius about the same axis to provide aligned axle mountings; and wheel and axle assemblies carried by said axle mountings.

2,668,318
ADJUSTABLE SUPPORT FOR SLIDING DOORS
Charles B. Le Bon III, Pasadena, Calif., assignor to Arcadia Metal Products, Inc., Arcadia, Calif., a corporation of California
Application February 25, 1952, Serial No. 273,312
7 Claims. (Cl. 16—100)



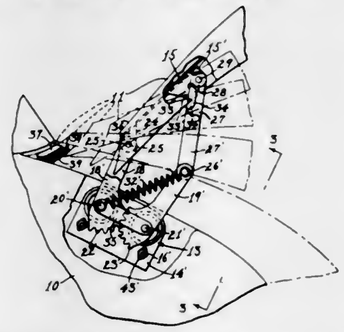
1. An adjustable roller device for use with a metal-framed sliding door including a hollow rail member having an end wall with an access opening therein; said adjustable device adapted to be carried by the rail member adjacent to the end wall and comprising a mounting bar adapted to be secured to the rail member; an elongated carrier means having a pivotal connection at one end to said mounting bar; a headed member carried by the mounting bar and slidably associated with the carrier means for limiting movement of said carrier means about said pivotal connection; a wheel and axle assembly mounted on said carrier means; a wedge shoe interposed between the carrier means and the bar and having a wedge face in engagement with said carrier means; and screw means carried by the bar and connected to the wedge shoe for advancing and retracting said shoe, said screw means being adapted to be aligned with the access opening.

2,668,319
CLOSURE PULL MEMBER
James Riley Keys, Carroll F. Van Buskirk, and Henry D. Oberdorfer, New Castle, Ind., assignors, by mesne assignments, to New Castle Products, Inc., New Castle, Ind., a corporation of Indiana
Application September 25, 1948, Serial No. 51,144
2 Claims. (Cl. 16—111)



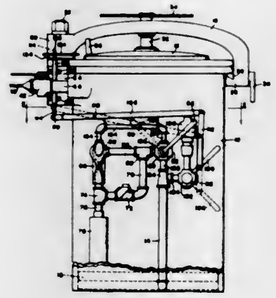
1. The combination with a tubular metal closure post having a plurality of spaced longitudinally aligned slots, of an elongated pull member seated on the surface of said post, said pull member including a pair of projecting hooks slidably engaged with edge portions of said post defining two of said slots respectively to slidably secure said pull member to said post, and a lock screw threaded in said pull member at an acute angle to the longitudinal axis of the post with its inner end engaged with an edge portion of said post defining another one of said plurality of slots to clamp said projecting hooks to the post to prevent unintentional slidable release of said pull member from said post.

2,668,320
HINGED LID AND HOOD SUPPORT FOR MOTOR VEHICLES
Walter R. Lustig, Rockford, Ill., assignor to Atwood Vacuum Machine Company, Rockford, Ill., a corporation of Illinois
Application December 16, 1947, Serial No. 792,033
10 Claims. (Cl. 16—163)



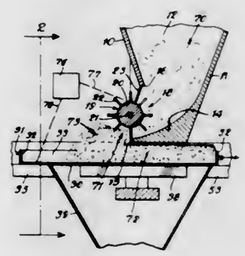
7. A pivotal connection and support means for two members comprising two arms each pivoted adjacent one end on the first of said members, a geared driving connection between said ends of the arms, one of said arms pivotally connected at its other end to the second member, and a link pivotally connected at one end to the free end of the other arm and at its other end to the second member.

2,668,321
SAFETY DEVICE FOR STUFFING APPARATUS
Carl Oscar Schmidt, Jr., Cincinnati, Ohio, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a corporation of Ohio
Application March 8, 1951, Serial No. 214,521
3 Claims. (Cl. 17—39)



1. A fluid-pressure-operated stuffing machine comprising a cylinder open at its top, a yoke pivoted at one end to the casing for horizontal swinging movement into and out of position diametrically across the open upper end of the cylinder, a closure for said cylinder carried by said yoke and shiftable vertically from a lowered position in closing relation to the open top of the cylinder to a raised and opened position, a piston slidable vertically in said cylinder, a pipe structure including a pipe communicating with the lower portion of the cylinder for admitting fluid under pressure into the cylinder under the piston therein to shift the piston upwardly in a power stroke and also allow exhaust of said fluid from the cylinder under the piston during downward movement of the piston to its lowered position, a main valve controlling directional flow of fluid through the pipe structure and having an actuating handle for manual opening and closing of the valve, an auxiliary valve having an inlet communicating with the pipe structure between the main valve and its connection with the casing, a handle for said auxiliary valve, a pressure relief valve connected with the outlet of the auxiliary valve, a collar rigid with and extending about the pivoted end of said yoke and formed with a vertically extending opening, a guide carried by said cylinder, a bolt shiftable vertically through said guide and when raised having an upper end engaged in the opening in said collar and securing the yoke against swinging movement about its pivot out of a position diametrically across the cylinder, a lever pivotally mounted horizontally on said cylinder and having an end pivoted to the lower end of said bolt and shifting the bolt downwardly out of the opening in the collar and thereby allow movement of the yoke away from its position across the top of the cylinder when the lever is tilted in one direction, and a vertical link connecting the other end of the lever with the handle of the auxiliary valve and effecting tilting of the lever and downward movement of the bolt out of engagement with the collar when the handle of the auxiliary valve is moved in a direction to open the said auxiliary valve.

2,668,322
LOADING APPARATUS AND METHOD
Frederick Weyerhaeuser, St. Paul, Minn., assignor to Rock Island Millwork Company, Rock Island, Ill., a corporation of Illinois
Application December 1, 1951, Serial No. 259,376
11 Claims. (Cl. 18—1)



1. The method of continuously loading a moving carrier base to a predetermined height with granular material which comprises continuously moving a uniformly thick layer of granular material at a feeding velocity in a generally horizontal direction from a region above a fixed horizontal plane, continuously moving a carrier base to be loaded in said plane at a lower velocity

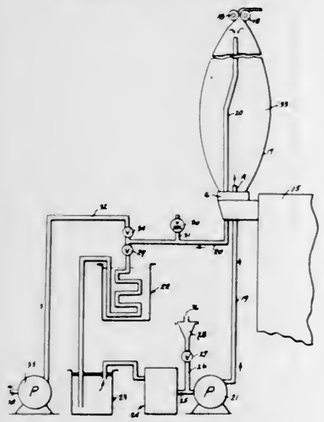
in a direction opposed to the moving material whereby the fed material gravitates as a mass to said base, the distance from said plane to the bottom of said layer being predeterminedly greater than the thickness of said layer, and relating the feeding velocity of said layer to the velocity of movement of said base so as to form and maintain a ridge of material on the moving base at least as high as the bottom of said layer, whereby the force of the moving material at the bottom of said layer functions mechanically as a doctor to level the material being carried away from said ridge by said carrier base, the said greater distance being such that the resulting doctored fill carried away on said base has a thickness in the range from at least as thick as to thicker than the thickness of the said layer.

2,668,323

MEANS FOR TREATING THE INTERIOR SURFACE OF TUBING BEING EXTRUDED

Willard J. Johnson, Midland Park, N. J., assignor of one-third to Louis Danenberg and one-third to Alex Danenberg, Long Island City, N. Y.

Application December 12, 1951, Serial No. 261,282
1 Claim. (Cl. 18—14)



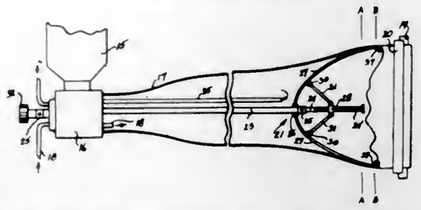
In combination with a die for the continuous extrusion of tubing made of a plasticized material which is pliable when set, means for flattening and closing said tubing at a point spaced from the die where the extruded tubing is already set; said die being provided with a first port and a second port opening into the extruded tubing, a first pipe connected to one of said ports; said first pipe terminating in two branches, a second pipe connected to the other of said ports, a first pump and a second pump, each having an intake port and an exhaust port respectively; one of said branches of the first pipe being connected to the intake port of the first pump; the exhaust port of said first pump being open to the atmosphere; the second of said branches being connected to the intake port of the second pump and said second pipe being connected to the exhaust port of the second pump, two valves, interposed one in each of said branches respectively and a branch in the branch connected to the intake port of said second pump, between said second pump and the valve in said branch connected to the intake port of said second pump and a valve controlling the branch in said branch connected to the intake port of the second pump.

2,668,324

MEANS FOR MAKING CREASELESS, COMPLETELY FLATTENED, EXTRUDED PLASTIC TUBING

Willard J. Johnson, Midland Park, N. J., assignor of one-third to Louis Danenberg and one-third to Alex Danenberg, Long Island City, N. Y.

Application December 29, 1951, Serial No. 264,118
5 Claims. (Cl. 18—14)



1. In a device of the type including a die having a discharge orifice for extruding therefrom a continuous plastic tubing which is flexible when in set condition, a pair of rollers positioned at a distance from the discharge orifice where such tubing is in set condition, adapted to receive such tubing between them in substantially a central longitudinal plane of such tubing; such plane being taken at the point of extrusion; said rollers being adapted to completely flatten the tubing passed between them into a two-ply web, the improvement consisting of an elongated member extending towards said rollers from substantially the center of said discharge orifice and secured to the die and a tube guiding means including a pair of elongated arms carried movably on said elongated member and extending adjacent said rollers substantially in said plane on opposite sides respectively of said elongated member; the remote longitudinal surfaces of said arms, contacting diametrically opposite, comparatively narrow lanes of the interior surface of said tubing, longitudinally of said tubing, before such tubing enters between the rollers; said arms being of comparatively small thickness adjacent the rollers and there substantially equi-spaced from the axis line of the tubing, a distance slightly less than half of the distance along the rollers along which said tubing contacts said rollers; said tubing when travelling towards the rollers, enveloping said elongated member and said pair of arms, and means for moving said arms towards and away from each other and to hold them in any set position; all movements of said arms, being substantially equal.

2,668,325

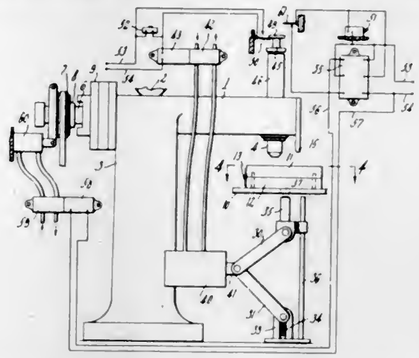
INJECTION MOLDING MACHINE

George R. Goodwin, Seekonk, Mass., assignor to Miller Electric Co., Pawtucket, R. I., a corporation of Rhode Island

Application March 18, 1952, Serial No. 277,118
8 Claims. (Cl. 18—30)

1. A molding machine comprising a nozzle through which material to be molded may be forced, a plurality of molds each having a mouth for presentation to said nozzle, said molds being mounted for motion to present said molds successively with their mouths in operative relation to said nozzle, means for clamping each mold with its mouth against said nozzle when in molding position, means forcing the molding material through said nozzle into a mold so clamped, an element movable in response to pressure within said nozzle, means actuated by motion of said element in response to increased pressure to a

predetermined point to stop said forcing means when such mold becomes filled and means actuated by said element in response to decrease of



pressure at said nozzle to a predetermined point after each forcing operation to release said clamp mold.

2,668,326

PROCESS FOR THE PREPARATION OF PHTHALIMIDE

George F. Schlaudecker, Toledo, Ohio, assignor, by mesne assignments, to Maumee Development Company, Toledo, Ohio, a corporation of Ohio

Application August 3, 1951, Serial No. 240,151
2 Claims. (Cl. 18—47.2)

1. The process of preparing phthalimide in porous granular form which includes the steps of quenching molten phthalimide in a liquid coolant while agitating the coolant, and contacting with a scrubbing liquid the vapors evolved during quenching to recover vaporized phthalimide.

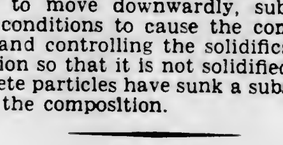
2,668,327

METHOD OF MAKING A CURVED HONEYCOMB PRODUCT

Roger C. Steele, Albany, Calif., assignor to California Reinforced Plastics Company, Oakland, Calif., a corporation of California

Application April 21, 1950, Serial No. 157,251
15 Claims. (Cl. 18—47.5)

1. In a method of treating a flexible flat sheet of cellular material of substantially uniform cell size which is characterized by its tendency to form a saddle-back curve along a first major axis of the sheet when said sheet is bent to form a curve along a second major axis normal to said first axis, the steps comprising; forming a simple curve in a sheet of the material along the first axis thereof compensatory with respect to the saddle back curve which will tend to form in the sheet along its first axis when said sheet is subjected to stresses attendant with the bending of the said sheet to form a curve along a second axis thereof normal to said first axis, and treating said sheet with a chemical binder to fix said compensating simple curve formed in the sheet,



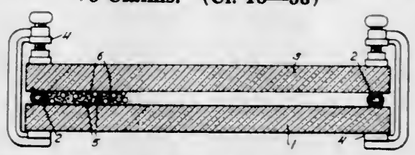
said chemical binder being selected from a class possessing sufficient binding qualities to prevent any inherent resilient tendencies of the material from which the sheet is made from springing the curve out of its predetermined shape yet having sufficient plastic qualities to permit said sheet to be flexed in a direction appropriate to form a curve along the second axis thereof, and then bending said flexible sheet appropriate to form a curve along the second major axis of said sheet normal to said first axis to thereby form a saddle-back-free rounded honeycomb product.

2,668,328

METHOD OF CASTING PATTERNED PLASTIC SHEETS

Frank E. Porter, Denville, N. J., assignor to U. S. Chemical Corporation, Metuchen, N. J., a corporation of New Jersey

Application April 8, 1953, Serial No. 347,555
5 Claims. (Cl. 18—58)



1. The method of making molded articles which consists in adding to a molding composition while in a liquid state a quantity of pattern-forming material, also adding to said liquid composition discrete particles of solid material of such weight and bulk as to sink by gravity in such molding composition, placing the mixture in a mold, placing the mold in a position for such particles to move downwardly, subjecting the mold to conditions to cause the composition to solidify, and controlling the solidification of the composition so that it is not solidified until after the discrete particles have sunk a substantial distance in the composition.

2,668,329

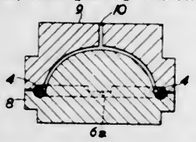
PRODUCTION OF RUBBER PRODUCTS HAVING AN ANNULAR RIM SUCH AS VAGINAL DIAPHRAGMS

Lucian Landau, Chingford, London, England, assignor to Latex Industries Limited, London, England, a British company

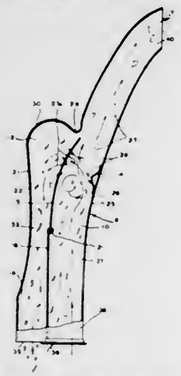
Application June 24, 1949, Serial No. 101,265
Claims priority, application Great Britain June 28, 1948
3 Claims. (Cl. 18—59)

1. A method of producing a rubber product having an annular rim reinforced with an annu-

lar coiled spring which comprises supporting the coiled spring centrally within an annular space in the mold upon firm supports projecting from the bottom of the mold space; injecting under pressure into the said molding space a vulcanizable rubber mix, and partly vulcanizing the rubber therein; removing the coated spring from the mold, and introducing it into an annular mold space of slightly larger cross-section than the first mold and injecting under pressure further vulcanizable mix into the said space containing the coated spring and completing the vulcanization in the mold.

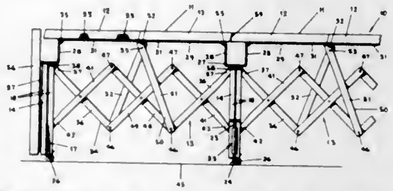


2,668,330
CLEANER FOR MECHANICAL COTTON PICKERS
Hugh L. Gieszl, Gilbert, Ariz.
Application February 25, 1952, Serial No. 273,273
4 Claims. (Cl. 19—76)



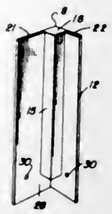
4. In a cotton picking machine having mechanical picking mechanism, a blower having an outlet drawing air with entrained cotton from said mechanical picking mechanism and a cotton receiving cage, a cotton cleaner consisting of a body having a vertical lower portion and a horizontal upper portion joined thereto by an angular bend having a back wall and an outer wall joined by side walls, a separation plate in the lower portion of said body dividing it and forming the outer wall of the lower portion of an air and cotton duct adjacent said back wall and a trash outlet duct adjacent the outer wall of said body. an air and entrained cotton duct extending through said body enclosed on the inside by the back wall of said body and on the outside by a composite outer wall including said separating plate and the upper portion of the outer wall of said body; an inlet at the lower end of said air and cotton duct connected to the outlet of said blower, and an outlet at the end of said horizontal portion of said body connecting to said cotton receiving cage; the outer wall of said body having a sharp outward bend at the lower end of said angular bend of said body, followed by a downward curve forming a low pressure chamber; said composite outer wall of said duct having a trash outlet opening extending between the outward bend in the outer wall of said body and the top of said separation plate connecting said air duct with said low pressure chamber; a grid covering said outlet opening formed of spaced vertically extending spring wires attached to the upper edge of said separation plate; a baffle attached to the inner face of the back wall of said duct directing air toward said trash outlet opening and causing turbulence of air flowing through said air duct; said trash outlet duct having a bottom outlet vent, and an intermediate Venturi throat opposite the bottom edge of said trash outlet opening.

2,668,331
FOLDABLE PLATFORM STAGE
Walter J. Horn, Fort Dodge, Iowa, assignor, by mesne assignments, to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application October 27, 1949, Serial No. 123,955
3 Claims. (Cl. 20—1.123)



1. A folding stage comprising a sectional floor structure, upright members for supporting said structure spaced longitudinally of said floor structure and arranged in rows extended transversely of said floor structure, upright U-shape members carried at the top ends of said upright members, with the legs of said U-shape members being in planes extended longitudinally of said floor structure, hinge structures each having a pivot intermediate its ends pivotally connected to and extending between the adjacent legs of adjacent ones of said U-shape members for movement to an unfolded horizontal position and to a position folded upwardly, horizontally foldable lazy tong systems extended between and movably connected to adjacent ones of said upright members permitting folding and unfolding of said hinge structures transversely of said floor structure, and means for securing the sections of said floor structure to the upper side of said hinge structures for hinged movement therewith, said floor sections extending slightly beyond said pivotal connection of the hinge structures to said adjacent legs and being foldable upwardly to vertical positions against each other, with the lower sides of adjacent pairs thereof receivable within longitudinally opposite ones of said U-shape members.

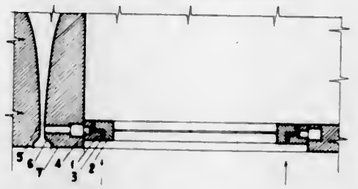
2,668,332
SHINGLE CORNER CONSTRUCTION
John D. Roth, North Wildwood, N. J.
Application February 23, 1951, Serial No. 212,408
2 Claims. (Cl. 20—5)



1. A prefabricated unitary asbestos corner piece shingle for a building comprising a pair of

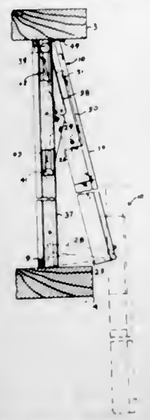
elongated flange members intersecting at substantially right angles, a reinforcing integral rib portion shorter than said flange members and throughout its length filling in the corner formed by said intersecting flange members, said integral reinforcing rib portion being substantially square in cross section to fit in a V-groove formed in a corner of the building.

2,668,333
AIR TIGHT JOINT FOR WINDOWS, DOORS, AND THE LIKE
Angel Gonzalez del Valle, Madrid, Spain
Application November 2, 1949, Serial No. 125,121
Claims priority, application Spain November 2, 1948
6 Claims. (Cl. 20—40)



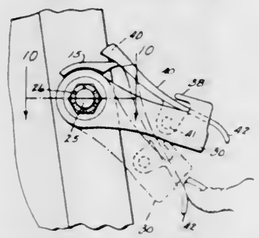
1. In combination with an enclosure having walls at least one of which has an opening therein formed with rabbetted edge surfaces, a closure for said opening having rabbetted edge surfaces to nest within said opening edge surfaces to form a rabbetted joint, said one wall having a duct opening through said opening edge surfaces adjacent to and substantially co-planar with one of said rabbetted surfaces to form a continuation of a branch of the joint at said surface, said enclosure having a passage through its walls in communication with said duct and opening through the outer side of a wall other than said opening containing wall, said duct and said passage having a greater cross-sectional area than the joint between said opening and closure edge surfaces.

2,668,334
AUXILIARY WINDOW SASH
Hans Radomski, Richmond Hill, N. Y., assignor of one-half to Herbert Andreas, Ridgewood, N. Y.
Application February 6, 1953, Serial No. 335,439
7 Claims. (Cl. 20—42)



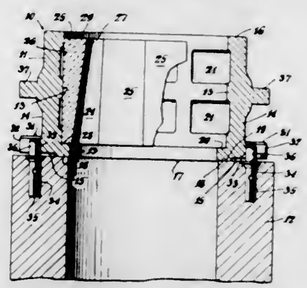
1. Means for attaching an auxiliary sash to a window frame comprising, a pair of links pivotable at one end upon a common pivot, bracket means carrying the common pivot and adapted to be secured to a side rail of the auxiliary sash, a channel bar adapted to be fixed in a vertical position to a side wall of the window frame, discs one at the free end of each link engaged in the channel bar and adapted for up and down sliding movement therein, and a spring carried by the common pivot constantly tensioning the links in opposite directions.

2,668,335
LOCKING DEVICE FOR MOLDING FLASKS
James F. Hines, Lakewood, Ohio, assignor, by mesne assignments, to Hines Flask Company, Cleveland, Ohio, a corporation of Ohio
Application October 6, 1950, Serial No. 188,850
7 Claims. (Cl. 22—107)



1. The combination of a pair of panels, the panels being provided with abutting wings extending outwardly at the adjacent ends of the panels to form a common corner, said wings adapted to meet on their inner faces, cams on the outer faces of the wings, a bifurcated clamping lever extending onto opposite outer sides of said wings and having cams on its inner faces coacting in one position of the lever with those of the wings on a common transverse axis through the wings to clamp the wings together, means for pivoting the lever to the wings at the common axis, a shoulder carried by a wing, and a latch carried by the clamping lever external of the common corner and extending towards engagement with the shoulder when the clamp is in its active position.

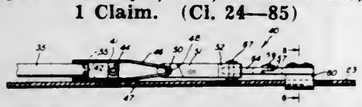
2,668,336
HOT TOP FOR INGOT MOLDS
Joseph Henry Jones, Canton, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application March 6, 1951, Serial No. 214,088
4 Claims. (Cl. 22—147)



1. In combination a hot top and an ingot mold wherein the hot top is removably positioned on the upper surface of the mold, said combination comprising, a collar defined by an inner and an

outer wall, a lower end and an upper end, a mold-engaging face provided on the lower end extending from the inner wall outward in a narow perimeter around the mouth of the mold, the inner wall adjacent the lower end defining an opening at least as small as, and no more than slightly smaller than, said mouth, heat insulating means mounted on the inner wall above the mold engaging face, the collar being formed to define at least two horizontally extending, vertical slots extending in opposite directions from the vertical axis of the collar, and opening on the lower end of the collar, each of said slots having at least one closed end at its inner extent, pins fixed in the upper face of the mold extending upward from said face and into the slots substantially against their closed ends prior to the pouring of the ingot.

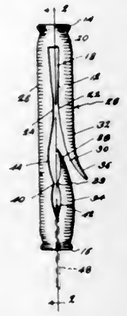
2,668,337
CLAMP FOR CONNECTING FILAMENTARY ARTICLES TO MOVING TRACTION ELEMENTS
Joseph E. Lodge, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 7, 1949, Serial No. 103,486
1 Claim. (Cl. 24—85)



A quickly detachable, flexible clamp for connecting the leading end of a strip of flexible material to a continuously advancing, endless cable used for threading such a strip through a tortuous path in a material treating apparatus, which comprises a substantially planar, U-shaped body, a pair of pivotally interconnected, plier-like levers pivotable about an axis perpendicular to the plane of the body, a pair of cooperating cable grippers pendantly mounted on one end of the plier-like levers, each of said levers having an extension at the other end thereof provided with a camming slot formed therein, a pair of pins spacedly mounted at the closed end of the U-shaped body and received within the camming slots formed in the levers to slidably connect said levers to the body, said camming slots and pins cooperating so as to force the grippers into gripping engagement with a cable positioned therebetween when the body is urged axially away from the levers, a pair of relatively flat, cooperating jaws, means for hinging the jaws together intermediate their ends about a transversely disposed axis parallel to the plane of the body, strip-engaging teeth mounted on said jaws on one side of the hinge, said jaws having intermeshing extensions converging on the other side of the hinge, and a transversely disposed rod-like member slidably interposed between the hinge and the intermeshing ends of the converging extensions of the jaw, said rod-like member being mounted at its opposite ends between the parallel sides of the U-shaped body at the open end thereof, whereby when the body is urged axially away from the jaw elements the teeth are forced into engagement with a strip of material.

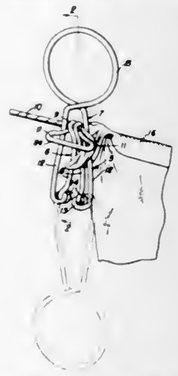
2,668,338
CLOTHESPIN
Celia Harrison, Union City, N. J.
Application June 25, 1951, Serial No. 233,416
1 Claim. (Cl. 24—138)

A clothespin comprising a body portion having an axial passage therein, opposing closed ends on said body portion, said passage defining opposing legs and one of said legs being formed adjacent one end of the body portion with a slot transversely communicating with the passage, said slot dividing said leg into two sections and the adjoining spaced ends of the leg sections being in overlapping arrangement, said slot dividing said



passage into a relatively long passage portion and a relatively short passage portion, said relatively long passage portion having opposed convex side walls, and said relatively short passage portion having side walls provided with centrally disposed confronting nodes defining a restricted entrance to the inner portion of such relatively short passage portion.

2,668,339
CLOTHESPIN
Joseph S. Matta, Prichard, Ala.
Application July 23, 1951, Serial No. 238,151
1 Claim. (Cl. 24—139)



A wire clothespin comprising a clothes clamping part and a clothesline attaching part, said last named part including a pair of vertical wire legs, resilient eyes at the upper portion of the legs adapted for slidably mounting on the line to support the legs below the line, a pair of catch arms projecting laterally outwardly from the eyes and spaced forwardly with respect to the latter, a connecting bar uniting the catch arms with each other, said first named part including a pair of vertical resilient clamping legs connected at their lower ends to the lower ends of the first named legs for vertical swinging movement of the former into and out of locking engagement behind said catch arms to clamp an article of clothing placed between the arms and the clamping legs, said last named legs being crossed with each other at a point adjacent their upper ends, and a resilient ring uniting the upper ends of said last named legs to each other

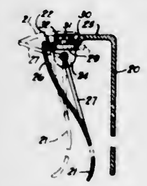
above their point of crossing and adapted to release said last named legs from said catch arms by pressure subjected to the sides of the ring.

2,668,340
SNAP FASTENER ASSEMBLY
Walter I. Jones, Belmont, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application May 25, 1950, Serial No. 164,143
4 Claims. (Cl. 24—216)



4. A snap fastener socket assembly, comprising a socket member and an attaching member assembled onto opposite sides of a supporting sheet, said attaching member being formed of a single piece of synthetic organic plastic and comprising a base and a series of integral attaching prongs extending downwardly therefrom, said socket member comprising a base having a central fastening portion and an inwardly curled periphery forming a prong-receiving recess, said plastic material of which the attachment member is formed being sufficiently rigid to enable said prongs to pierce said sheet so that the ends are disposed in said recess yet being sufficiently plastic and deformable to allow said ends to be mashed by contact with the bottom of the recess to provide a laterally extending bulbous end disposed in the recess to retain the socket and attaching member in assembly.

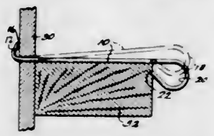
2,668,341
ADJUSTABLE STOP FOR THE SPRING CLIPS OF EARRINGS
Emanuel L. Arzt, New York, N. Y.
Application September 26, 1950, Serial No. 186,761
1 Claim. (Cl. 24—252)



An earring comprising an arm and a spring clip pivotally disposed adjacent one end of the arm and in spaced relationship therewith, the spring clip having a tongue formed therein, a stop disposed on the arm and coacting with the tongue, the stop comprising a circular disc, and means for eccentrically mounting the disc on the arm in operable engagement with the tongue.

2,668,342
PARTITION CLIP
Neis Nelsson, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application June 6, 1949, Serial No. 97,400
1 Claim. (Cl. 24—261)

A clip for fastening, temporarily, plaster receiving bases to bracing members, comprising a shank, a detent projecting at about right angle on one end of said shank, an open loop on other end of said shank, the said detent and said loop lying in the same plane as said shank but on opposite sides thereof, the said open loop having inbuilt spring characteristics, and a sharp point on end of said open loop.



2,668,343
CONNECTOR FOR WRIST WATCHES OR ORNAMENTATION
Kurt A. Rieth, Cranston, R. I., assignor to Speidel Corporation, Providence, R. I., a corporation of Rhode Island
Application September 15, 1950, Serial No. 185,042
6 Claims. (Cl. 24—265)

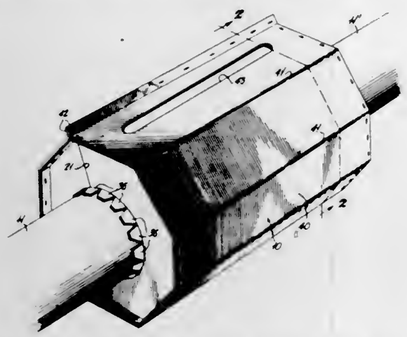


1. A connector for a wrist watch or ornamentation having a coupling loop, which comprises a member having at one end spaced hollow parts having outer and inner walls and between which parts said coupling loop is received, said parts having aligned apertures in their outer and inner walls, a releasable coupling pin axially slidable within said apertures and extending from one of said parts to the other so as to pass through an interposed coupling loop, one end portion of said coupling pin having a circumferential groove shaped to provide a circumferential shoulder, a resilient latch member in one of said parts having a cam-like part engageable with said shoulder so as yieldingly to oppose axial movement of said pin when in locking position, said cam-like part being movable out of engagement with said shoulder by pressure applied axially to said pin, and a locking finger in the other of said parts engageable with said shoulder for limiting the axial movement of said pin.

2,668,344
FIELD JOINT MOLD
George P. Killian, Alexandria, Va., and James A. Kilian, Bethesda, Md.
Application February 25, 1953, Serial No. 338,838
6 Claims. (Cl. 25—127)

1. In a molding boot of sheet material adapted to form an envelope about a pipe field joint for molding corrosion-resistant coatings thereon and having a tubular side wall of sheet material coaxially disposed about the field joint, end walls closing the ends of the tubular side wall of said boot, said end walls each comprising outer and inner end wall sections, the outer end wall section having a first annular panel having a hinged sector forming an opening for admitting a pipe in the central aperture therein and a second annular panel superposed thereon and conforming in shape to said first panel, said second panel having a discontinuous portion complementary to and aligned with said hinged sector to define a recess, and said inner end wall section having a first annular panel coextensive with said second

outer wall panel and a discontinuous portion for admission of a pipe to seat in the central opening therein and a second panel coextensive with and complementary to the discontinuous portion of said second outer wall panel and superposed on said first inner wall panel, said second panels being disposed in nested relation lying in a single plane when said boot is in assembled condition,



securing tabs hinged along score lines complementary to the external periphery of said first panels and folded at right angles to said panels to define an annular flange at the periphery thereof, and means securing said tubular side wall of sheet material to the annular flanges formed by said securing tabs to form an enclosure completely surrounding said field joint.

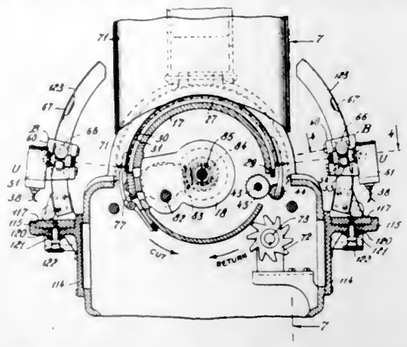
2,668,345
SHELL MAKING PROCESS
George R. Eckstein, Bridgeport, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application July 13, 1945, Serial No. 604,777
4 Claims. (Cl. 29—1.3)



1. A method of producing a cartridge case having walls of a predetermined geometry such as to preclude head separations on firing comprising the steps of extruding a thin walled tube having a heavy externally flanged wall section at one end, then completely inverting the profile of said externally flanged wall section by radially swaging same to provide a heavy flange on the inside of said tube, partially closing said one end and then heading said tube by deforming said heavy flanged section.

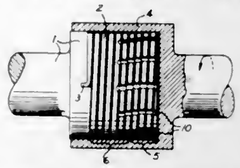
2,668,346
PREREGISTERING OF PLATES BY PROJECTION OF REGISTER MARKS
Paul L. Tollison, North Plainfield, and Charles L. Ricards, South Plainfield, N. J., assignors to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Application April 27, 1948, Serial No. 23,444
9 Claims. (Cl. 29—21)

9. A curved type-forming element registering and trimming machine comprising a mechanism compartment, a support for a curved type-forming element in said compartment, a plurality of projector units fixed to spaced points of said compartment, each including means for projecting an image of a mark on a type-forming element on said support, means for adjustably moving each of said projector units relative to said



support, and means connected to said compartment for trimming a type-forming element on said support.

2,668,347
METHOD OF MAKING CLUTCH SPRINGS
Stanley F. Gorske, Indianapolis, Ind., assignor, by mesne assignments, to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio
Application February 8, 1949, Serial No. 75,272
2 Claims. (Cl. 29—173)

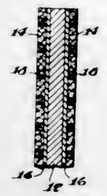


1. The method of treating helical clutch springs of generally cylindrical form wound from uniform section metal spring stock and having load carrying and energizing coil portions for contact with a clutch drum, each of the coils having internal stresses inwardly or outwardly from its peripheral surfaces which stresses maintain the stock in coiled form, comprising transversely slotting the drum-contacting peripheral surface portions of one or more of the energizing coils at intervals to form spaced clutching lands, and, radially opposite those lands, and on the opposite periphery from the slots, all around the slotted coil or coils, continuously removing peripheral portions of the coil or coils, to a limited extent such as will relieve the associated internal stresses in the spring stock and thereby cause the energizing coil or coils to be radially offset with reference to the load carrying coils, beyond the clutching surfaces of the load carrying coils in the clutching direction, when all the coils are relaxed.

2,668,348
PROTECTED METAL ARTICLE
Dean S. Hubbell, Pittsburgh, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 9, 1950, Serial No. 184,059
2 Claims. (Cl. 29—195)

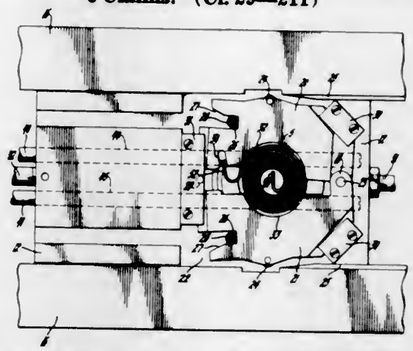
1. A protected metal sheet for building purposes comprising a metal sheet, a laminable fibrous sheet covering at least one surface of the metal sheet, a protective metal adhesive layer bonding the fibrous sheet to and covering the

metal sheet, said fibrous sheet being spot saturated throughout its area with a high-strength saturant, said spots being individually of small area and spaced apart so that the combined area of the spots constitutes only a small fraction of



the area of the surface of the metal sheet whereby to permit the protected metal sheet to be provided with the usual longitudinal corrugations without cracking the protective adhesive and fibrous layers irrespective of the hardness of the high-strength saturant.

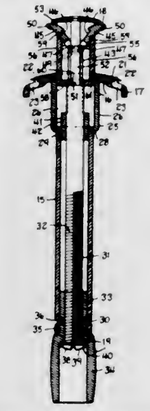
2,668,349
SPRING WINDING MACHINE
William Darin, Lincoln Park, and Joseph J. Palid, Belleville, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 20, 1950, Serial No. 169,244
6 Claims. (Cl. 29—211)



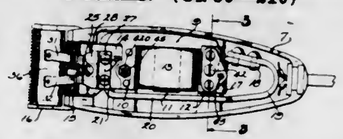
4. In a spiral spring winding machine wherein a carriage having a tube through which the springs are axially driven to effect their winding is laterally reciprocated to alternately position the tube in alignment with a spring feeding magazine and a spring driving ram respectively, the improvement consisting of movable clamping means on the carriage opposite the entrance to the tube for supporting the spring during movement of the tube to its position of alignment with the ram, stationary cam means operative upon the clamping means to effect movement thereof into clamping engagement with the spring during movement of the tube toward the ram, and other stationary cam means operative upon the clamping means to effect its return during movement of the tube to its position of alignment with the magazine.

2,668,350
SAFETY RAZOR
Paul J. Graybill, New Haven, Conn.
Application May 5, 1950, Serial No. 160,119
14 Claims. (Cl. 30—60.5)

1. A safety razor having a tubular handle; a blade-supporting member secured thereon; a pair of blade-clamping members; a movable yoke member to which the blade-clamping members are pivoted; an elevating member engageable with the blade-clamping members; manually-operable means mounted in said handle and arranged to actuate the elevating member to move said pair of blade-clamping members substantially simultaneously out of blade-clamping position; and a crest-plate constructed and arranged to be actuated by said manually-operable means to return and lock said clamping members in blade-clamping position.



2,668,351
BLADE MOUNTING AND DRIVER FOR HAIR CLIPPERS AND THE LIKE
Mathew Andis and Matthew G. Andis, Racine, Wis., assignors to Andis Clipper Co., Racine, Wis., a corporation of Wisconsin
Application May 4, 1948, Serial No. 24,974
5 Claims. (Cl. 30—210)

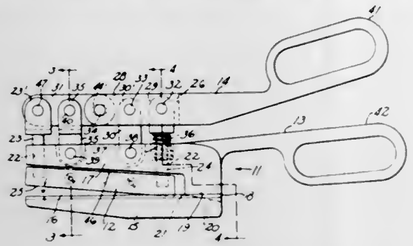


1. In a hair clipper having a shear blade and a motor provided with an armature, the combination with a movable blade reciprocable on the shear blade, of a tension spring mounted on the armature and bifurcated to provide tension spring fingers extending from the armature downwardly and curvilinearly toward said movable blade, said fingers having terminal portions substantially parallel to the movable blade and in immediate proximity thereto at points spaced longitudinally of the path of travel of the movable blade, the said fingers and blade having complementary sockets, and separate balls in the respective sockets constituting universally pivotal driving connections between said fingers and movable blade, and means for supporting said fingers on said armature subject to the bias of said tension spring toward the movable blade to maintain said balls in said sockets.

2,668,352
SHEET METAL SHEARS WITH LINKAGE
Claude B. Garland, Compton, Calif., assignor of one-half to Carl Frye, Long Beach, Calif.
Application February 5, 1951, Serial No. 209,335
3 Claims. (Cl. 30—242)

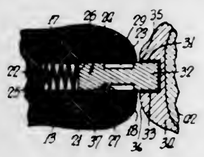
1. In a sheet metal cutter, the combination of: a horizontally disposed forwardly opening

yoke shaped first member, having a first handle extending rearwardly therefrom with a manual grip at the rear end, the said first member having an upper leg and a lower leg, said lower leg having an elongated cutting edge; a second member having an elongated cutting edge; a first link pivotally connected to the upper leg and extending upwardly therefrom; a rearwardly extending first lever medianly fulcrumed to the outer end of the first link and having a manual grip at its rear end and formed with a longitudinally extending slot at its front end; a second link of the same effective length as the first link and pivotally connected to the upper leg in front of said first link and extending outwardly from the upper leg; a second lever medianly fulcrumed to the outer end of the second link and formed with an opening at its rear end cooperatively re-



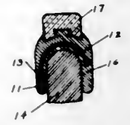
lated to said slot to receive a hinge pin; a hinge pin seated in said slot and opening; and a pair of upwardly directed parallel rigid extensions of said second member slidably engaging said upper leg, the rearward of said extensions being pivotally connected to said first lever to the rear of said first link and the forward of said extensions being pivotally connected to the second lever in front of said second link, said links, extensions and pivotal connections of said links and extensions being symmetrically related to a plane parallel to the said extensions and embracing the axis of the hinge pin connection between said levers, and the extensions, links, levers and legs being dimensioned and related to dispose the cutting edges for shearing engagement at a small forwardly opening acute angle.

2,668,353
DENTAL BRIDGE
Irving Quellman, New York, N. Y.
Application June 29, 1951, Serial No. 234,361
9 Claims. (Cl. 32—6)



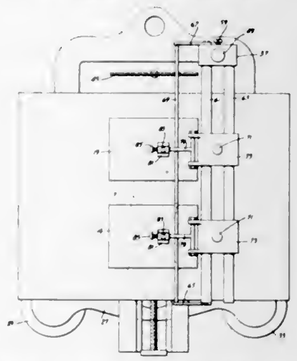
1. A dental bridge comprising at least one artificial tooth, a sleeve extending laterally inward from one side of said tooth substantially parallel to the biting surface thereof and completely contained in said tooth, a locking member slidably mounted in said sleeve, resilient means in said sleeve normally urging said locking member out of said sleeve, means on said sleeve to limit the outward movement of said locking member, a cup to receive the outer end of said locking member and means rigidly mounting said cup.

2,668,354
SELF-SPACING REINFORCING LINGUAL BAR
Acacio Ricalo, Baltimore, Md.
Application February 21, 1952, Serial No. 272,859
1 Claim. (Cl. 32—7)



A self spacing reinforcing lingual bar for use in supporting false teeth comprising in combination a base, spaced prongs of less width than the base projecting from said base, whereby flat shoulders are formed on said base extending from each side of said prongs to the outer sides of said base.

2,668,355
ENGRAVING DEVICE
John Clark, Berkeley, Calif.
Application June 29, 1953, Serial No. 364,860
1 Claim. (Cl. 33—18)



In a device of the character described, a clamp adapted to be fastened to the movable table of an engraving machine, two parallel arms extending horizontally from said clamp, at least one stylus holder slidably mounted on said horizontal arms, means for fastening the stylus holder on said arms in a fixed position, a swinging arm pivotally attached to the stylus holder at one end thereof said swinging arm extending at right angles to said parallel arms and adapted to receive a stylus at the free end, and a swinging rod parallel to and spaced from the two parallel arms, said swinging rod being adapted to contact the under portion of the swinging arm and to raise the swinging arm.

2,668,356
MEANS FOR MARKING GLASS TUBES
Richard H. Forbes, Newton, Mass., assignor to the United States of America as represented by the Secretary of the Treasury
Application April 24, 1951, Serial No. 222,723
3 Claims. (Cl. 33—21)
(Granted under Title 35, U. S. Code (1952), sec. 266)

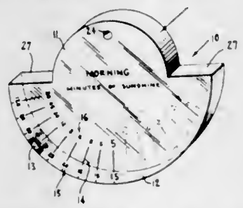
2. A device for making surface graduations on tubular glass articles by making a plurality of very shallow scratches which comprises a base member adapted to be vertically mounted, an upper terminal laterally extending bracket fastened to said base member, a work-clamping and supporting member mounted on said bracket, a

fixed work centering guide mounted on said base member, an adjustable work centering guide mounted on said base member, a scratching tool, means for mounting said scratching tool on said



base member and micrometric means for selectively precisely varying the height of said work-clamping and supporting member with respect to said scratching tool.

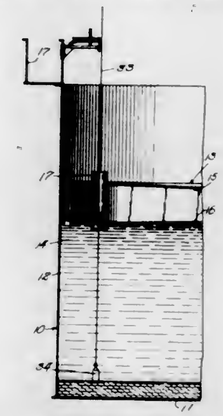
2,668,357
METER DEVICE
Fred L. Whipple, Belmont, Mass.
Application June 29, 1951, Serial No. 234,229
21 Claims. (Cl. 33—61)



6. An indicating device of the character described comprising a unitary piece of light transmitting material having one of its edge surfaces shaped to focus selected rays of light from a remote source and entering said edge surface at different given angles and having a second edge surface shaped so that said light rays entering through said first edge surface at said different angles are approximately focused and rendered visible at selected locations thereon in accordance with the angle at which they enter said first edge surface, and scale means provided along said second edge surface for indicating the location of the light rays as effected by said first edge surface.

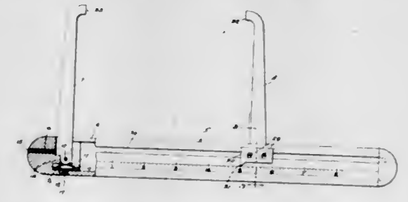
2,668,358
APPARATUS FOR GAUGING
Frederick D. Moyer, Chicago, Ill., assignor to Chicago Bridge & Iron Company, a corporation of Illinois
Application September 16, 1949, Serial No. 116,006
1 Claim. (Cl. 33—126.5)

In a floating roof tank having sidewalls, a roof and a gauge well in the roof, a gauging device comprising a bracket secured to the sidewall and having a portion extending substantially inwardly over the tank roof, a bench mark member hingedly attached to said bracket at the end thereof secured to said sidewall and extending inwardly of said tank over said portion of said bracket, a bubble level secured to and extending longitudinally of the bench mark member, and



means for accurately moving said bench mark member about said hinge connection relative to said portion to level the bench mark member.

2,668,359
CALIBRATED CALIPERS
Mason R. Litchfield, Levelland, Tex.
Application January 8, 1951, Serial No. 204,861
1 Claim. (Cl. 33—154)

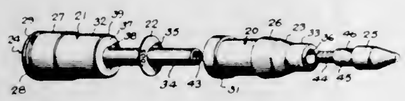


Calipers comprising a hollow elongated body having longitudinal slots formed in one edge and one side wall thereof, said body having graduations formed along the slot in the side wall, pivoted vertical swinging caliper arms mounted within the body adapted to swing through the slot in the edge of the body, supports on which said caliper arms are pivotally mounted, inwardly extended lugs formed on the supports adjacent to the pivots thereof, said caliper arms having shoulders adapted to engage said lugs as said caliper arms swing vertically limiting upward movement of said caliper arms, adjusting screws engaging the caliper arms adjusting said caliper arms with respect to the pivots thereof, one of the caliper arms being slidable longitudinally of the body, a gauge point on the slidable arm extending through the slot in said side wall and cooperating with the graduations indicating distances, and leaf springs mounted within the supports engaging said caliper arms restricting pivotal movement of said caliper arms within the supports.

2,668,360
HEADSPACE GAUGE FOR FIREARMS
Ervin J. Keller, Flint, Mich.
Application March 6, 1950, Serial No. 147,988
3 Claims. (Cl. 33—168)

1. A headspace gauge for measuring the distance from the face of the bolt of a closed breech

mechanism to the shoulder in the chamber of a barrel against which cartridges are seated when determining the headspace of a firearm, said gauge comprising forward and rearward gauge sections, said forward section having a gauging surface thereon for engaging the shoulder in the chamber, said rearward section having a gauging surface thereon for engaging the face of the bolt, each of said gauge sections also having a flat abutment surface thereon, said forward section also having an opening at the center of its abutment surface and extending longitudinally therethrough; a reduced extension projecting forwardly from the center of the abutment surface of said rearward section and slidably received in the opening of the forward section; spacer shims



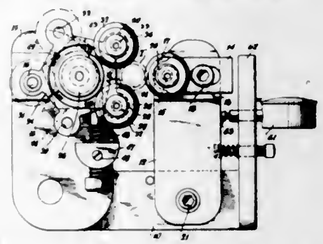
of different thicknesses, each spacer shim having a central hole through which said reduced extension is adapted to extend when said shim is positioned between the abutment faces of the forward and rearward sections; and a nosepiece threadably connected to the forward end of said reduced extension and engageable with said forward gauge section for sliding said forward gauge section relative to said reduced extension upon turning movement of said nosepiece and thereby drawing said gauge sections towards one another and determining the spacing of said gauging surfaces by a clamping of said abutting surfaces of both sections against one another or against shims interposed between said abutment surfaces.

2,668,361
GAUGE FOR MEASURING EXTERNAL DIMENSIONS
David Gabriel Stålhandske and Erik Arne Johnson, Bofors, Sweden
Original application February 17, 1949, Serial No. 76,894. Divided and this application October 1, 1951, Serial No. 249,053
9 Claims. (Cl. 33—174)



1. A gauge for measuring external dimensions in length of a work piece comprising a pair of spaced end members, a plurality of rods extending between and journalled at their opposite ends in said end members for axial movement, a gauging jaw carried by each said rod, a slide individual to and coupled to each rod for actuating the same axially, said slides being carried by one of said end members and including a wedge portion the axes of which are parallel to the plane of said end member, a slide member disposed on said end member carrying said slides for movement substantially in a plane parallel to the end member and which includes the wedge members, said slide member being provided with a row of pins arranged longitudinally thereof for engagement respectively with the faces of the wedge portions of said slides upon movement of said slide member for displacing said slides axially to a starting position, and spring means cooperative with each said slide and rod for urging the same axially from said starting position to gauging position.

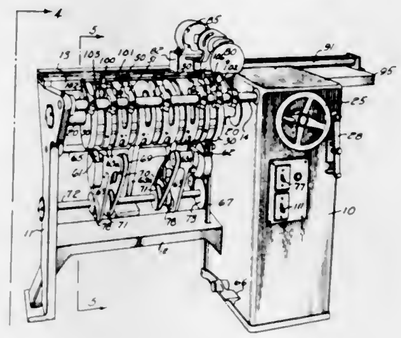
2,668,362
MULTIPLE ROLLER HEAD AND GAUGE
Paul W. Johnson, Bloomfield, Conn., assignor, by mesne assignments, to The Johnson Gage Development Company, a corporation of Connecticut
Application January 30, 1951, Serial No. 208,621
12 Claims. (Cl. 33—178)



1. A gage to test the diameter of a test part comprising a gage frame, pivot means carried by the gage frame, a multiple roller head having a pivot bearing to receive the pivot means, the multiple roller head having at least three mounting holes for gaging roller mounting means disposed circumferentially around the pivot bearing with their axes parallel to the pivot bearing axis and equidistant from the center of the pivot bearing, the centers of adjacent mounting holes being spaced different distances from each other and the distance corresponding approximately with the sum of the radius of the test part and the radius of the gaging roller multiplied by the square root of 3, gaging roller mounting means carried by at least two adjacent mounting holes, a gaging roller carried by at least two adjacent gaging roller mounting means to form a pair of spaced gaging rollers, cooperating gaging means carried by the gage frame and positioned to cooperate with the pair of spaced gaging rollers, and stop means carried by the gage frame and by the multiple roller head which permits pivotal movement of the head and limits its movement at least in one direction to gaging position for the pair of gaging rollers.

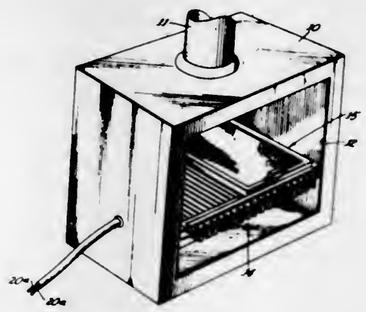
2,668,363
MEANS FOR REGISTERING PRINTING PLATES
Stephen W. Lippitt, Lakewood, Ohio, assignor to The Cleveland Shopping News Company, Cleveland, Ohio, a corporation of Ohio
Application August 1, 1950, Serial No. 176,941
5 Claims. (Cl. 33—184.5)

5. In a machine for testing the position of register marks on stereotype mats, the combination of a rotary drum, a pair of circumferentially spaced clamps axially centered and mounted on the drum and adapted to engage opposite ends of a mat extending about the drum, rollers bearing against the surface of the mat to maintain



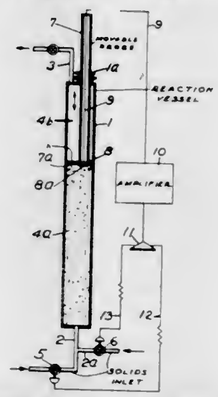
it smooth as the drum is turned, and eye-pieces spaced from each other along the drum axis and adapted to observe the position of the register marks on each end of the mat for comparison of their registration with each other and the eye-pieces.

2,668,364
DRYING OF MATERIALS BY INFRARED RADIATION
Ralph F. Colton, Chicago, Ill., assignor to Dry-Freeze Corporation, Chicago, Ill., a corporation of Illinois
Application October 27, 1950, Serial No. 192,574
1 Claim. (Cl. 34—4)



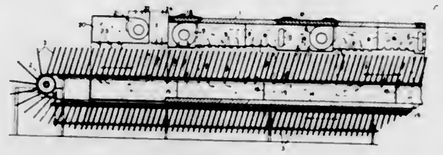
Drying apparatus comprising a container, means for the elimination of vapors, a radiant heater in said container which emits at least 60% of its radiation in the spectral range of 1μ to 10μ, and a support for material to be dried, also in said container, so disposed with respect to said heater that energy radiating from the heater to material carried by said support passes through said support, asid support comprising a foraminous sheet rendered impervious to fluids by having intimately associated therewith a plastic composed of polymerized ethylene-type molecules, the plastic component of the support having intermingled therewith a ground additive chosen from the group which consists of sodium chloride, calcium fluoride, lithium fluoride, potassium bromide, quartz and glass.

2,668,365
APPARATUS FOR DETERMINING DENSITIES OF FINELY DIVIDED SOLID MATERIALS IN A FLUIDIZED BODY OF SUCH MATERIALS
David R. Hogin, Scarsdale, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 31, 1949, Serial No. 136,344
9 Claims. (Cl. 34—57)



1. In a vessel adapted to contain a body of finely divided solid materials fluidized and suspended in a stream of a gaseous medium passed through said vessel, and in which individual particles of said solid materials are in substantially constant motion, a means for determining the density of said solids in said medium at any given level vertically of said vessel, comprising at least one closed casing having a substantially rigid face member disposed with relation to said vessel so as to expose said rigid face member to the impact of solid particles in motion within said vessel, means substantially contained within said casing for sensing the frequency and magnitude of the impact of said solid particles against said face member exposed thereto, said sensing means being disposed in spaced relation to said face member within the casing and being excitable by impact of said solid particles against the face member, electrical means for transmitting and amplifying excitation of said sensing means, electrical means for registering the amplified effect of such excitation, and means to vary the effective location of said sensing means vertically of said vessel.

2,668,366
HEAT PROCESSING APPARATUS
Charles A. Barnett, Cleveland, Ohio, assignor to Young Brothers Company, Cleveland, Ohio, a corporation of Michigan
Application November 12, 1949, Serial No. 126,891
7 Claims. (Cl. 34—66)



1. In a heat processing machine comprising an elongated oven having work entering and exit ends, and a conveyor movable longitudinally therethrough having rack members arranged thereon in spaced apart relation for supporting

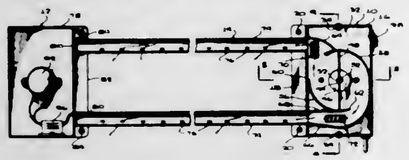
generally flat work-pieces in inclined position during its travel through such oven; the combination of a plurality of longitudinally spaced heating means located in such oven above the upper course of such conveyor, a plurality of uniformly directed blower means associated with such heating means likewise located in such oven above the upper course of such conveyor and adapted to maintain a general flow of heated gases through such oven in a direction opposite to movement of such conveyor therethrough, a series of transverse baffles longitudinally spaced in such oven to assist in directing the flow of heated gases through the oven, and a series of horizontally disposed transverse partitions arranged in slightly spaced apart relation lengthwise of such oven, each such partition having parallel lateral flanges with adjacent flanges of the several partitions cooperably forming transverse directional ports effective to direct the heated gases into contact with such work-pieces, at least certain of said partitions being of variable lateral extent to permit the size of the ports partially formed thereby to be adjusted.

2,668,367
HAIR DRIER
Conkling Chedister, Livingston, N. J.
Application November 10, 1949, Serial No. 126,474
9 Claims. (Cl. 34—99)



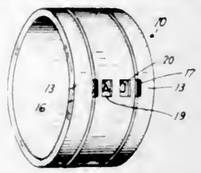
1. A hair drier including in combination a pair of air-pervious sheaths of heat resistant material to encircle the head of hair to be dried and providing a large opening at the top end of the sheath, a resistance heater element positioned between said sheaths and in proximity to the hair to be dried, said elements being of thin flexible resistance material and whose area is a relatively large proportion of the area covered by said air pervious sheath and positioned in the path of the air entering through the porous sheath.

2,668,368
COMBINED RACK AND DRIER
Edwin N. Jacobs, Louisville, Ky.
Application December 16, 1952, Serial No. 326,192
2 Claims. (Cl. 34—151)



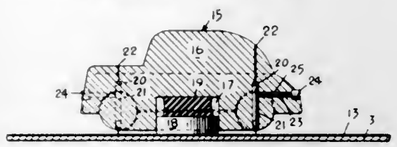
1. A combined rack and drier for towels and like articles, comprising: a pair of parallel, tubular support bars for articles to be dried, each of said bars having a longitudinal series of perforations, said perforations of the respective bars defining air outlet openings through which air can be directed against articles supported on the bars; housings secured to the opposite ends of respective bars, one of said housings having a substantially circular fan blade chamber therein formed with diametrically opposite openings communicating with the respective support bars; a blade in the chamber arranged for forcing air through said openings; and resistance elements disposed in the path of air forced from said openings into the bars.

2,668,369
CIPHER DEVICE
Carlos A. Hepp, Englewood, N. J., assignor of fifty per cent to Philip G. Hilbert, Astoria, N. Y.
Application March 13, 1951, Serial No. 215,297
2 Claims. (Cl. 35—3)



1. A cipher device comprising an annular, flexible supporting member formed on its outer surface with a shallow groove extending circumferentially thereof, a pair of cipher bands rotatably disposed within said groove in side by side relation and an endless cover band overlying said cipher bands and substantially concealing the same from view, said cover band being formed with openings for rendering visible selected indicia appearing on the respective cipher bands.

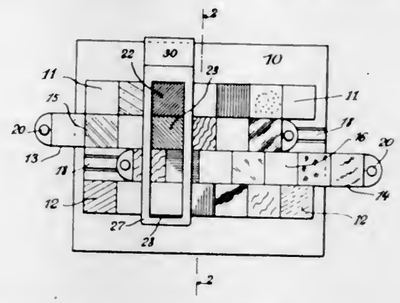
2,668,370
MEANS FOR DEMONSTRATING AND RECORDING RELATIVE MOTION BETWEEN OBJECTS
Howard Benson Trimble, Nashville, Tenn.
Application November 29, 1950, Serial No. 198,091
6 Claims. (Cl. 35—7)



1. A demonstration piece for use with a demonstration surface having ferro-magnetic properties, comprising: a body, a magnet associated with and defining a bottom surface of said body, a yieldable means interposed between said body and said magnet, and marker means on the bottom of said body, lying slightly above the bottom surface of said magnet, whereby a downward pressure on said body will cause said marker means to contact a record-preserving surface for marking the same.

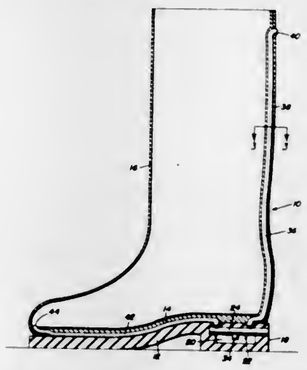
2,668,371
DISPLAY DEVICE
Maylock Artmann, New York, N. Y.
Application October 23, 1952, Serial No. 316,431
2 Claims. (Cl. 35—53)

1. A display device of the character described comprising a background board, an upper row of colored tiles secured to said board, a lower row of colored tiles secured to said board parallel to said upper row and spaced therefrom, two guiding cleats secured to said board between the said two rows of tiles parallel therewith and spaced an equal distance from each of said rows, two slides having dovetailed longitudinal grooves engaging said guiding cleats for movement thereupon between and with relation to said rows of



tiles, other tiles secured to the said slides to form movable rows of tiles, buttons at the ends of said slides for moving the same with relation to the said upper and lower rows of tiles whereby to align any two or more of the said tiles for comparison of colors, legs on said board for supporting the same in an upright display position, the surfaces of said tiles being substantially flush one with the other.

2,668,372
VENTILATED BOOT
Stanworth E. Wright, Greenfield, Ind.
Application July 28, 1952, Serial No. 301,217
2 Claims. (Cl. 36—3)



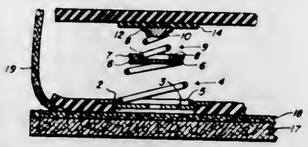
1. In a ventilated boot, the combination of a sole, an upper, and a hollow compressible heel having a bellows chamber therein, a valve assembly mounted in said heel and including an inlet port, an outlet port and an intermediate port in communication with said chamber, an air inlet tube extending downwardly in said upper and connected to said inlet port, and an air outlet tube connected to the outlet port and extending forwardly in said sole and having an upper front end in communication with the interior of the boot, said valve assembly being responsive to compression of said heel for delivering air from said inlet tube through said outlet tube and including a normally closed valve for said inlet port.

2,668,373
ANTISLIPPING DEVICE FOR SHOES
Leo V. Russo, Chicago, Ill.
Application September 6, 1952, Serial No. 308,267
3 Claims. (Cl. 36—7.6)



1. In combination, a shoe tread member comprising relatively adjustable heel and sole bodies, the sole body having a plurality of generally transversely disposed ways therein, a plurality of clamp plates flatly adjacent portions of one side of said sole body, each of said plates having a plurality of generally longitudinally disposed ways therein in a manner to and being of a number to individually intersect the ways in the sole body, said heel body having a plurality of relatively angularly disposed ways formed therein, a plurality of calks equalling the number of ways in said sole body, heel body and plates, means on said calks engaged through the sole body and plate intersecting ways and through the ways in said heel body mounting the calks on the heel body and on the sole body and plates and interconnecting said plates to said sole body, and means on the heel body and clamp plates for connecting the same to a shoe and over the tread portion thereof.

2,668,374
SPRING CUSHIONING INSOLE
William Seigle, Dallas, Tex.
Application March 14, 1951, Serial No. 215,480
6 Claims. (Cl. 36—28)



1. In a cushioned insole to be worn in shoes, said insole having upper and lower sheets of pliant material, the combination with said sheets, of a plurality of separate individual cushioning units spacedly disposed between the sheets, each of said units comprising: a plurality of superimposed helical springs; and an individual disc of rigid sheet material between the adjacent ends of said springs, said disc being unanchored elsewhere and being free to move vertically and to sway laterally with the adjacent spring ends, said sheets being adhered together around the units to limit the springs to substantially vertical movement only.

2,668,375
FOOT SUPPORTING DEVICE
Eugene B. Ward, West Springfield, Mass.
Application March 7, 1952, Serial No. 275,413
1 Claim. (Cl. 36—71)

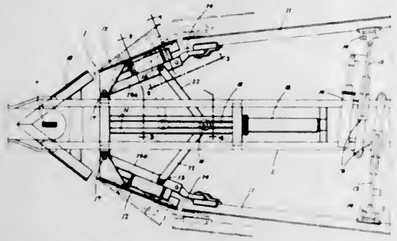
The combination of a flexible inner sole for a shoe having an opening therethrough intermedi-

ate opposite end and side edges thereof with movable pulsating arch supporting means comprising, a revolvable turret having an upper central hub portion receivable in the opening of the inner sole and provided with a lower radially extending flange around said hub underlying the lower face of the inner sole, said turret having a recess extending upwardly from a lower face of said flange into said hub portion and terminating downwardly of the upper face thereof providing a top wall at the upper side of said hub portion, said top wall being provided with an elongated slot of a certain length transversely thereacross, an anterior arch supporting relatively thin metallic cap for bearing on the upper side of the inner sole convexed transversely and longitudinally and pro-



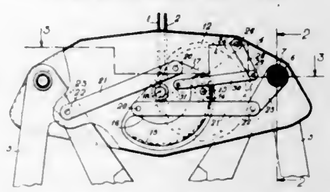
vided with an elongated transverse rear edge, a lug slightly less in transverse width than the certain length of the slot in said top wall having an upper portion extending vertically downwardly from the rear edge of said cap intermediate opposite ends of said rear edge and through the slot of the top wall of said hub and a portion extending horizontally away from the said vertical portion beneath said top wall, said lug and slot arranged whereby said cap and turret are hingedly connected for rocking movements of said cap up and down relative to said turret during flexing movements of the inner sole, and spurs extending downwardly from opposite ends of the rear edge of said cap for impinging the upper side of said inner sole for holding said turret against rotation relative to said inner sole.

2,668,376
LISTER UNIT FOR DITCHERS
Ernest V. Briscoe, Kerman, Calif.
Application June 24, 1950, Serial No. 170,185
1 Claim. (Cl. 37—98)



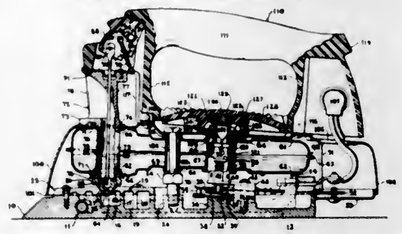
In a ditch digger having a central longitudinal main frame, a lister plow fixed at the forward end of the frame, and main side blades supported intermediate their ends from the frame and terminating at their forward ends rearwardly of the plow; laterally adjustable extension blades disposed in the gap between the lister plow and main blades, vertical hinge means between the frame and extension blades at the forward end of the latter, hinge connection means between the main and extension blades, and means to swing the extension blades in and out and comprising a longitudinal ram mounted on the frame, vertically spaced longitudinal guide units on the frame beyond the ram, the latter being in a horizontal plane substantially centrally between the guide units, a vertical pin movable between the guides and engaged by the ram, and vertically spaced pairs of links disposed in vertical planes between the guide units connected to the pin and diverging thence to vertically spaced connections with the extension blades.

2,668,377
AUTOMATIC GRAB-BUCKET
Pierre Jean-Marie Theodore Allard, Eaubonne, France
Application February 8, 1949, Serial No. 75,186
Claims priority, application France February 11, 1948
7 Claims. (Cl. 37—187)



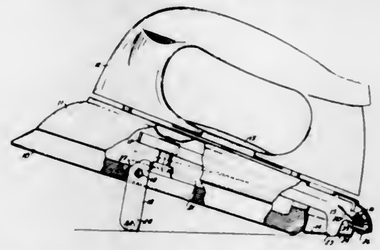
1. An operating device for grab mechanism of the type comprising two grappling elements, a hoisting cable for controlling the closing motion of said elements and a drum for said hoisting cable, which comprises a central box-like member to which said elements are pivotally connected, a stationary crown and a movable pawl device supported by said box-like member and adapted to engage said crown, a rocking toothed quadrant carried by said box-like member, a pinion meshing with said toothed quadrant and connected to said drum, a system of rods connected at one end to the pivots of said grappling elements and, at the other end, to two pins fixed at two eccentric points of said quadrant and a system of levers connected at one end to said pawl device and, at the other end, to a pivot fixed at an eccentric point of said quadrant, and pivotally carried by said box-like member.

2,668,378
ELECTRIC IRON
John E. Vance, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application June 27, 1952, Serial No. 295,950
25 Claims. (Cl. 38—77)



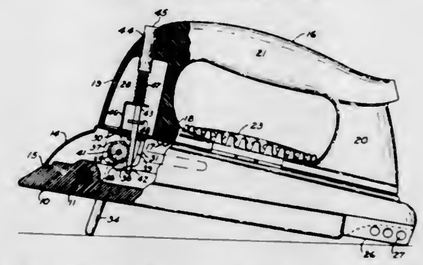
1. In an electrically heated steam iron having a sole plate sub-assembly, a reservoir-valve sub-assembly and a handle-cover shell sub-assembly; said sole plate sub-assembly comprising, a sole plate proper, a heating element thereon, said sole plate being formed with a boiler recess near its toe and with ducts for conducting steam to its bottom surface, a cover plate for said recess, an inlet opening in said cover plate above said recess, an anchor stud extending upwardly, from said sole plate to the rear of said recess, a thermostatic switch mounted on said sole plate to the rear of said stud and having a control shaft extending upwardly therefrom and a cover shell support extending upwardly from the rear of said sole plate; said reservoir-valve sub-assembly comprising, a horizontally elongated reservoir, a tube extending upwardly therethrough for receiving said control shaft, a second tube extending upwardly through said reservoir above said anchor stud, a valve body secured to said reservoir above the inlet opening of said cover plate with its lower face formed to mate with said inlet opening, a fill tube secured to and extending upwardly from said reservoir above said valve body and having a forward extension formed with a forwardly facing fill opening, a valve stem extending upwardly from said valve body through said fill opening and a valve actuator mounted on top of said fill tube and operatively connected to the upper end of said valve stem; said handle-cover shell sub-assembly comprising, a cover shell enclosing said reservoir, said cover shell having an opening in its top above said control shaft and a second opening above said anchor stud and a front opening for receiving said fill tube, and a handle secured to said cover shell, said handle having spaced front and rear legs, said front leg being hollow to receive said fill tube and having a front opening for receiving said forward extension and a top opening through which said valve actuator extends; means extending upwardly from said control shaft through said control shaft receiving tube and through the aligned opening in said cover shell for adjusting said thermostatic switch and means extending through the second opening in said cover shell and the second tube of said reservoir and engaging said anchor stud to clamp said handle-cover shell sub-assembly and said reservoir-valve sub-assembly to said sole plate sub-assembly with the lower end of said valve body engaging said inlet opening and the rear of said cover shell resting on said cover shell support.

2,668,379
IRON REST
Elmer C. Binggely, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 22, 1948, Serial No. 50,480
3 Claims. (Cl. 38—79)



3. The combination with an electric sad iron of the type having a sole plate, a cover shell and an operating handle; of a retractable structure for supporting the iron with the sole plate elevated above a supporting surface comprising an elongated rest member, said sole plate being formed with an elongated slot opening through the ironing surface thereof and adapted to receive said rest member, a pivot on said sole plate above the ironing surface thereof pivotally mounting said rest member in said slot for vertical movement about a horizontal axis to move from a retracted position in said slot to a supporting position in which one end of the rest projects below the ironing surface, said pivot engaging the rest member adjacent the other end thereof whereby the center of gravity of the rest member lies between the pivot and said one end thereof and the rest member is biased by gravity to iron supporting position; and means for securing said rest member in said retracted position and for releasing said rest member to move to said supporting position by gravity comprising a control and securing lever having a securing portion adapted to engage said rest and an actuating portion extending downwardly at the rear of the heel of said sole plate, means pivotally mounting said control lever on said iron for arcuate movement between a first position in which the actuating portion thereof terminates just above the plane of the ironing surface and the securing portion thereof directly engages the rest in said retracted position and retains the rest in said retracted position and a second position in which said actuating portion moves upwardly with respect to the sole plate and said securing portion disengages from said rest, and means normally biasing said control lever to said first position whereby said rest is released by tilting said iron backwardly to engage said actuating portion with a supporting surface.

2,668,380
SUPPORT FOR ELECTRIC IRONS
Herbert W. Wilson, St. Louis, Mo., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Original application December 23, 1947, Serial No. 793,433. Divided and this application January 23, 1952, Serial No. 267,823
15 Claims. (Cl. 38—79)

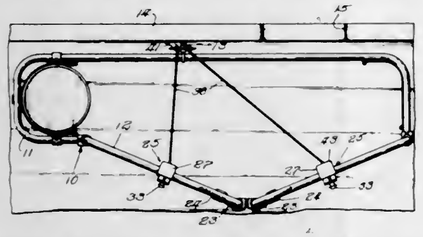


1. An electric smoothing iron comprising, a sole plate, a cover shell secured to said sole plate, said sole plate extending outwardly beyond the sides of said cover shell, a manipulating handle having a front supporting post secured to said cover shell, a bracket secured to the under surface of said cover shell beneath said front supporting post, a pair of supporting members having pintles rotatably and slidably carried by said bracket and having angularly extending legs normally lying closely against said cover shell above said sole plate and means operable from said handle supporting post for sliding said pintles outwardly of said cover shell and simultaneously rotating them whereby said angularly extending legs are moved outwardly so as to clear the edges of said sole plate and downwardly so that their ends extend below the lower surface of said sole plate.

2,668,381
LATCH MECHANISM FOR GATES
Robert G. Ferris, Harvard, Ill., assignor to Starline Inc., a corporation of Illinois
Application September 12, 1951, Serial No. 246,285
13 Claims. (Cl. 39—28)

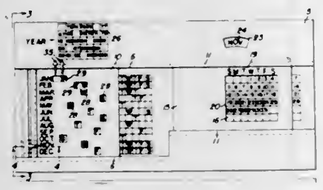
1. In a gate assembly including a gate arch and a gate hinged on an upright portion of said

arch for swinging movement between a forward closed position and an open position, together with means operable when said gate is closed to urge it toward open position, gate latch means comprising a member on the gate and a member on the arch which are provided with releasably interlocking portions, one of said portions being



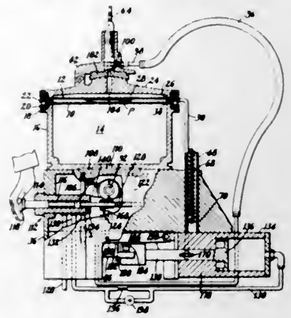
movable generally across the line of movement of the gate to permit the latch to be both latched and unlatched by forward movement of the member on the gate; and flexible means extending through said member on the arch and secured to said member on the gate for drawing the gate forward.

2,668,382
PERPETUAL CALENDAR
Clarence S. Spencer, Virginiatown, Ontario, Canada
Application December 19, 1950, Serial No. 201,506
3 Claims. (Cl. 40—109)



1. A perpetual calendar with a frame plate provided with slideways, comprising a table arranged between said slideways, each line being allotted to a month, the lines of the table being parallel to the slideways, and containing the weekday indications for a plurality of weeks, aligned in columns, each of said columns being allotted to one weekday, a slide provided with a pointing device, said slide being movable over the above named table and being provided with a window for each line of the table allotted to one month, said window displaying one weekday indication of the table on ten lines, a window so positioned that on two of the lines of the table, a second weekday indication, adjacent to the first indication uncovered which is valid for leap years, a year table arranged in columns of a width equal to that of the columns of the first named table and lines, parallel to the slideways, each line containing successive year indications, and each following line containing the years following those enumerated in an adjacent line, said year table being so arranged with respect to the first named table that the pointing device of the slide when pointing to one of the columns of the year table determines the position of all the slide windows relatively to the weekday columns of the first named table, the weekday indications uncovered by the windows corresponding to the first day of each month in the year to which the marker of the slide has been moved, and a weekday indicator, adjustable by hand, for indicating the weekdays for all other days of the month.

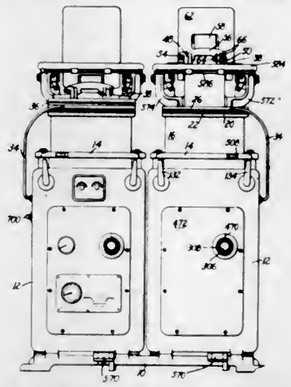
2,668,383
APPARATUS FOR IMPRESSING TRANSFER DESIGNS UPON POTTERY BLANKS
Norman Victor Germany, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 18, 1948, Serial No. 66,111
15 Claims. (Cl. 41—1)



1. Apparatus for impressing paint from a transfer upon a pottery blank comprising a pair of flexible diaphragms arranged for engagement with opposite sides of a work piece placed therebetween, supports for said diaphragms, said supports providing with said diaphragms closed chambers into which pressure fluid may be admitted to force said diaphragms toward each other to apply pressure to the opposite sides of the work piece placed therebetween, means mounting one of said supports for movements into and out of proximity to the other support to carry its diaphragm into and out of cooperative relation to the diaphragm on the other support, means for admitting pressure fluid into said chambers, and means rendering said last-named means inoperative except when said supports are in proximity to each other.

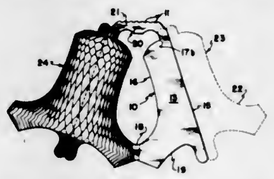
2,668,384
APPARATUS FOR IMPRESSING TRANSFER DESIGNS UPON POTTERY BLANKS
William Arthur Barker, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 5, 1950, Serial No. 177,813
Claims priority, application Great Britain September 1, 1949
10 Claims. (Cl. 41—1)

1. Apparatus for impressing paint from a transfer upon a pottery blank comprising a pair of flexible diaphragms arranged for engagement with opposite sides of a work piece placed therebetween, supports for said diaphragms, said supports providing with said diaphragms closed chambers into which pressure fluid may be admitted to force said diaphragms toward each other to apply pressure to the opposite sides of the work piece placed therebetween, means mounting one of said supports for movement into and out of proximity to the other support to carry its diaphragm into and out of cooperative relation to the diaphragm on the other support, means for admitting pressure fluid into one of said chambers, and means providing direct communication between the upper and lower chambers when the diaphragms are in proximity to



each other and providing communication between said one of said chambers and the atmosphere when the diaphragm supports are separated from each other.

2,668,385
DECORATIVE ARTICLE
Joseph Pettorossi, Brooklyn, N. Y., assignor to Paper Novelty Manufacturing Company, Brooklyn, N. Y., a corporation of New York
Application November 1, 1951, Serial No. 254,353
1 Claim. (Cl. 41—11)



A decorative article of the class described, comprising a reinforcing base of sheet material having opposite hand symmetrical halves joined together at a transverse fold at the vertical median line of said base, whereby said halves may be oppositely rotated on said fold as an axis, each of said halves providing a portion shaped like half of the axial section of an object to one side of the axis thereof and normal to the vertical median line, and two piles of honeycombed sheets identically shaped and attached to said portion, whereby when said base is folded upon said sheets a flat sandwich results and when said base is folded upon its transverse fold, the sheets are expanded into two substantially identical honeycomb structures, simulating objects held together by said base.

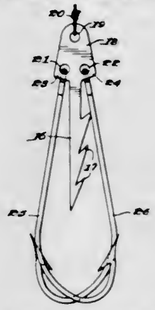
2,668,386
EXTENSIBLE HANDLE FOR FISHING LANDING NETS
William Benner, Jr., Park City, Mont.
Application August 20, 1951, Serial No. 242,647
11 Claims. (Cl. 43—12)

1. A landing net handle assembly including an outer hollow telescopic handle section and an inner hollow telescopic handle section, weight means to cause one of said sections to move longitudinally of the other section upon movements of said handle assembly from the horizontal towards the vertical, including a weighted body slidable longitudinally of said sections, and means to selectively retard and accelerate movements of said



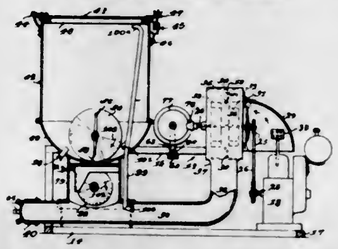
one of said sections when moved by said weight means.

2,668,387
BAIT RETAINING FISHHOOK
Tomas Gallardo, New Orleans, La.
Application January 10, 1950, Serial No. 137,793
2 Claims. (Cl. 43—44.4)



2. A fish hook bait retainer comprising a base which is substantially triangular shaped and having an arm extended from the lower end thereof with the base and arm lying in the one plane, said base having a line attaching opening in the upper end thereof and having its axis positioned in a plane normal to the one plane and plane extended through the arm and having hook attaching openings positioned on opposite sides of the plane in which the line attaching opening is positioned, said arm having barbs thereon, and hooks having eyes positioned with the eyes thereof extended through the hook attaching openings through the base of the bait retainer with the hooks extended downwardly on opposite sides of the arm of the retainer and with the points of the hooks extended inwardly through the latter plane.

2,668,388
APPARATUS FOR DISCHARGING FINELY DIVIDED MATERIALS UNDER PRESSURE
Alonzo Zeb Thompson, Selma, N. C.
Application July 27, 1951, Serial No. 238,974
6 Claims. (Cl. 43—148)



1. In an apparatus for dispensing dry materials under pressure, a hopper, a conduit through which air is impelled under pressure toward an outlet end thereof, said conduit extending beneath the hopper, a housing connected to the

bottom of the hopper and to said conduit, said conduit having an opening registering with said housing, the hopper bottom having a restricted outlet communicating with the housing, a rotary driven brush mounted in the hopper and having a portion of its periphery disposed to contact or substantially contact the hopper outlet, a rotary driven brush mounted in said housing and having a portion of its periphery disposed beneath and adjacent the hopper outlet, said brushes being driven simultaneously whereby the first mentioned circular brush is adapted to agitate and convey a dry material contained in said hopper to the hopper outlet and onto the last mentioned circular brush to be discharged therefrom by gravity and centrifugal force through the housing into said conduit, a closure for closing the top of said hopper and for sealing the hopper above the hopper outlet, and an air pipe having an inlet end disposed in said conduit and opening away from the outlet end of the conduit, said air pipe having an outlet end opening adjacent the top of the hopper for producing a pressure in the hopper.

2,668,389
MAGNETIC TOY
Robert W. Morrison, Kansas City, Mo.
Application March 7, 1949, Serial No. 80,040
9 Claims. (Cl. 46—45)

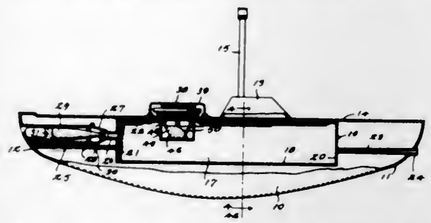


1. A magnetic toy comprising a platform, a vehicle body, front and rear axles carried movably by said vehicle body, a wheel mounted rotatably at each end of both of said axles for supporting said vehicle body on said platform, a first magnet carried by said vehicle body intermediate said front and rear axles, and a second magnet carried movably beneath said platform and adapted to cooperate with said first magnet to propel said vehicle, said front axle being pivotally castered to said body on an upwardly and forwardly inclined axis, whereby whenever said front axle is turned said vehicle body will be tilted inwardly on said axles relative to said turn.

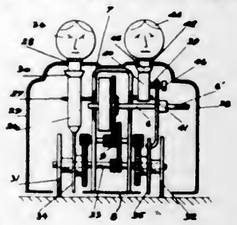
5. A magnetic toy comprising a non-magnetic platform, a plurality of steerable vehicles supported by said platform, a magnet carried by each of said vehicles and having one pole thereof closely adjacent said platform, a turntable disposed beneath said platform, a plurality of magnets carried by said turntable, said turntable magnets being respectively spaced apart a greater distance than the length of one of said vehicles and adapted respectively to cooperate with one of the magnets carried by said vehicles, and a handle fixed to said turntable for rotation about an axis at right angles to said platform, whereby said turntable may be moved in sliding contact with the lower surface of said platform.

2,668,390
TOY SUBMARINE
Robert W. Fredericks, Kansas City, Mo., assignor to Charles W. Creighton, Jr., Salem, Oreg.
Application August 20, 1951, Serial No. 242,635
1 Claim. (Cl. 46—95)

A jet operated submarine comprising a submarine hull, a chamber formed in said hull, a tube connected between the prow of said hull and said chamber, an outwardly closing check valve in said tube, a simulated torpedo in said tube normally holding said valve in open position, a second tube connected between said chamber and the stern of said hull, said second tube providing means for initial admission of water into said chamber and constituting a jet member, a cover for said chamber normally spring biased toward closed position, a gas generating element, and means supporting said element in said chamber in a position to initially hold said cover in open position to permit initial exhaustion of air from said chamber during the filling of said chamber with water, wetting of said element causing disintegration thereof to permit closing of said cover under spring pressure and causing the generation of gas to produce gas pressure in said chamber whereby water in said chamber will be forced through said first-named tube to discharge said torpedo, said check valve closing with the discharge of said torpedo whereby pressure will build up in said chamber for discharge through said second tube to thereby propel said hull through the water, said gas generating element comprising a water soluble pellet of inverted frusto-conical shape providing a thin upper marginal edge, said hatch cover including downwardly projecting pointed bars engaging said marginal edge under the bias of said spring, whereby upon partial dissolution of the upper edge of said pellet said bars serve to fracture said edge to permit a sudden closure of said hatch before complete dissolution of said pellet.



2,668,391
MOTOR-DRIVEN WHEELED TOY
Georges Geraud Huard, Paris, and Raymond Jean Ernest Roger, Suresnes, France
Application July 14, 1949, Serial No. 104,684
Claims priority, application France April 30, 1949
5 Claims. (Cl. 46—107)



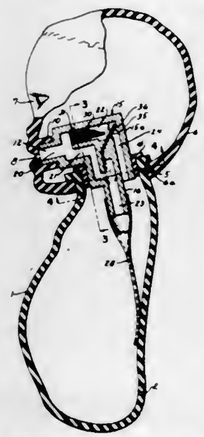
1. A mechanism for producing irregular movements of a toy comprising a frame, a shaft journalled in said frame, wheels fixed on said shaft and positioned to normally engage a supporting surface, a motor on said frame, a first transmission means connected between said motor and said shaft for rotating said shaft and hence said wheels, at least one cam member rotatably mounted on said shaft at a location axially inward of said wheels for rotation independent of said wheels, said cam member being formed with a portion having a radial dimension greater than that of said wheels to periodically engage the supporting surface for lifting said frame and disengaging one of said wheels from the supporting surface, and second transmission means connected between said first transmission means and said cam member to rotate said cam member at a rotational speed different from that of said wheels.

2,668,392
SPRING MOTOR OPERATED ROCKING DOLL
John H. Williams, San Francisco, Calif.
Application August 31, 1950, Serial No. 182,485
12 Claims. (Cl. 46—107)



1. A mechanical doll comprising a support, a spring tensioned pivot shaft carried by said support, a body swingably mounted on said shaft, means operatively connecting said shaft to said body and said support for oscillating the body about the shaft as a pivot, a second pivot shaft carried by the body and paralleling the first-named shaft, a lever on said second shaft, and a member engaging said lever to support said body during oscillation of said body, said body oscillating means including a rotary shaft carried by said body and having an offset, a post forming a part of said support and extending into the body, said post having a slot disposed laterally of the pivot shaft receiving said offset.

2,668,393
DOLL CONSTRUCTION WITH NOISE EFFECTS
Paul Rekettye, Akron, Ohio, assignor to The Sun Rubber Company, Barberton, Ohio, a corporation of Ohio
Application June 1, 1949, Serial No. 96,479
6 Claims. (Cl. 46—117)



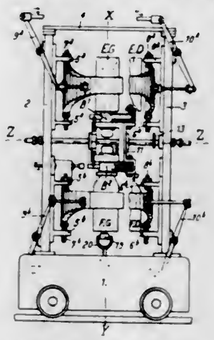
2. A drinking-wetting doll comprising, a hollow compressible body, a head thereon, an orifice located in the head, a water discharge passage in the lower part of the body, two passages leading from the orifice to the interior of the body, check valves for said passages causing air expelled from the body to flow through one of said passages and air returning to the body to flow through the other passage, the check valve for inflow passage consisting of a flattened flexible tube depending into the interior of the body normally held in flattened condition and permitting the flow of water inwardly into the body, and a reed located in the outflow passage.

2,668,394
SQUEEZABLE POP-OUT ACTION TOY
John M. Auzin, Warwick, R. I.
Application May 24, 1947, Serial No. 750,318
4 Claims. (Cl. 46—135)



1. An air filled action toy of flexible material, having a hollow body portion with a recess, a hollow part extending from the recess and in free communication with the interior of the hollow body portion, whereby squeezing the action toy projects the hollow part outwardly, the material of the body portion, the hollow part, and the recess being of the same thickness, the boundary between the recess and the body portion being a ring shaped portion having at least a part thereof of thicker material than the material of the body portion and the recess.

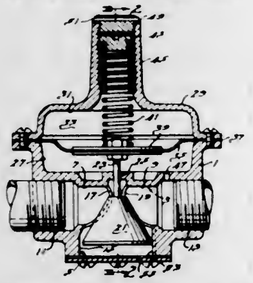
2,668,395
MACHINE FOR THE MANUFACTURE OF HOLLOW GLASS ARTICLES
Jean Maillart, Paris, France
Application November 28, 1950, Serial No. 197,883
Claims priority, application France December 3, 1949
2 Claims. (Cl. 49—9)



1. A machine for the manufacture of hollow glass articles such as bottles, flasks and the like, comprising a pair of roughing moulds each constituted by two shells, a pair of axially aligned neck moulds, and a pair of finishing moulds each constituted by two shells, said roughing moulds, neck moulds and finishing moulds being arranged in superposed relationship with the finishing

moulds at the lowest level and said neck moulds at an intermediate level between said roughing and finishing moulds, means mounting said neck moulds for rotation from a stationary position about an axis which is perpendicular to said axis of alignment of the neck moulds, means mounting the shells of the roughing moulds and finishing moulds for rotation about axes located in a plane passing along the axis of alignment of the neck moulds in said stationary position, said axes being parallel to said axis of alignment and spaced laterally therefrom so that each of said roughing and finishing moulds, in its closed position, is centered on said axis of alignment of said neck moulds, means for imparting to said roughing and finishing moulds exclusively opening and closing movements resulting from the rotation of their respective shells; and means for imparting to said pair of neck moulds rotations of 180° about said axis of rotation thereof during the opening and closing movements of said roughing and finishing moulds.

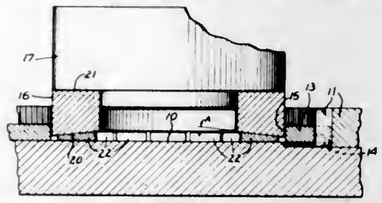
2,668,396
GAS REGULATOR
Frank Kern, Jr., Detroit, Mich., assignor to Maxitrol Company, Detroit, Mich., a corporation of Michigan
Application September 21, 1948, Serial No. 50,414
9 Claims. (Cl. 50—23)



1. A gas regulator comprising a valve body having a valve chamber, said body having inlet and outlet passages opening respectively into opposite sides of said chamber, said passages being located substantially on a common axis, a substantially conical valve and valve seat in said chamber between the openings of said passages into said chamber and directly in the path of gas flowing through the chamber from the inlet to the outlet passage, said valve being movable along its axis toward and away from said valve seat, the axis of said valve and seat being substantially perpendicular to the axis of said passages, and a diaphragm in said body responsive to the pressure of gas in said outlet passage for moving and positioning said valve relative to said seat so that the position of said valve is automatically determined by said pressure and its distance from the seat is dependent upon and inversely related to the pressure.

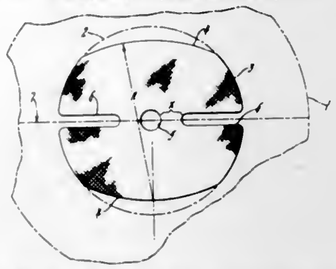
2,668,397
METHOD AND APPARATUS FOR CORRECTING CRYSTAL BLANKS
Robert F. Holzrichter and Ernest E. Overbey, Sandwich, Ill., assignors to The James Knights Company, Sandwich, Ill., a corporation of Illinois
Application June 29, 1951, Serial No. 234,242
7 Claims. (Cl. 51—161)

1. Apparatus for correcting the angle of orientation of a plurality of piezoelectric crystal blanks comprising in combination a correction ring having a frusto-conical surface on one side thereof which is coaxial with respect to the ring, said frusto-conical surface being of such width as to accommodate a plurality of crystal blanks arranged side by side in ring formation thereon and with the slope of said surface equal to the angular correction to be imparted to the first face of each of said crystal blanks, said correction ring having a plane face on the opposite



side thereof for the mounting of said crystal blanks in ring formation for corrective lapping of the remaining faces of said crystal blanks when the ring is in inverted position, a lap plate having an extensive flat surface, a carrier having a flat apertured face through which extends the said correction ring, said flat face lying on the lap plate, and means operatively engaging the carrier for translating the same with orbital movement on the lap plate.

2,668,398
POLISHING BUFF WHEEL
Rudolph E. Busch, Lincoln Park, and Emerson Lloyd Kurtzwarth, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 30, 1950, Serial No. 203,745
7 Claims. (Cl. 51—193)



1. A buffing pad adapted to comprise one of a series employed on buffing wheels, said pad comprising a pair of substantially semicircular portions said portions being partially separated by a pair of substantially diametrically aligned open ended slots extending radially inwardly between said semicircular portions from the periphery of said pad, and a web portion formed between said slots and connecting said semicircular portions intermediate the ends thereof.

2,668,399
CLINCH RING
Thomas Kingsbury, Grayslake, Ill., assignor to Leonard B. Sax, Glencoe, Ill.
Application July 2, 1951, Serial No. 234,890
2 Claims. (Cl. 51—193)



1. A clinch ring comprising an elongated strip, a plurality of teeth on both sides of the strip arranged in contiguity with each other and the teeth at each end of the strip separated from each other by a space substantially that of a tooth, the ends of the strip attached together in overlapping relation with the teeth on one end of the strip disposed in the spaces between the teeth on the other end of the strip, said teeth being disposed perpendicular to the strip on both sides thereof and in the same plane with each other and having their ends disposed inwardly to engage a buffing means.

2,668,400
LAPIDARY TOOL
Eugene A. Bacchi, San Francisco, Calif.
Application February 23, 1952, Serial No. 273,039
3 Claims. (Cl. 51—229)



1. A lapidary tool comprising a handle, a short threaded member of predetermined length extending from one end of the handle, a longer threaded member extending from the opposite end of the handle, the said threaded members being of the same diameter and having threads of the same pitch, and a stone supporting element having a threaded hole therein, the said hole having threads of the same pitch as the threads of the threaded members, and the said hole being of a size permitting the engagement of its threads with the threads of either of the threaded members, the length of the short threaded member being such that when fully screwed into the threaded hole of the stone supporting element the end thereof will not extend to the outer surface of the said element, and the length of the longer threaded member being such that the end thereof is adapted to extend outwardly beyond the outer surface of the said stone supporting element when fully screwed into the threaded hole thereof.

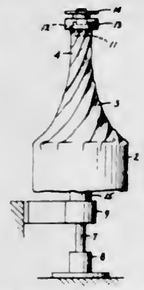
2,668,401
THREAD GRINDING MECHANISM AND METHOD
Charles A. Reimschissel, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a corporation of Pennsylvania
Application July 14, 1952, Serial No. 298,717
4 Claims. (Cl. 51—288)



4. In a method of grinding threads in a work piece, the steps of grinding incipient threads on said work piece, grinding the external diameter of said work piece, and initiating a rough grinding operation in certain of said incipient threads prior to completion of the grinding of others of said incipient threads.

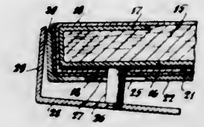
2,668,402
METHOD FOR PACKAGING FILAMENTARY MATERIAL
Graeme G. Whytlaw, Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application May 26, 1947, Serial No. 750,530
2 Claims. (Cl. 53—4)

1. The method of applying a covering member to an annular body of filamentary material having an inner wall and an outer wall comprising positioning a covering member of paper-like sheet material in tubular form in the body of filamentary material with the end portions of the covering member extending beyond the body of filamentary material, gripping the tubular sheet material near one end, twisting the sheet material in a region adjacent the gripped end and



the portion adjacent the inner wall of the body of filamentary material to form overlapping portions therein that extend in substantially helical paths, positioning the end portions of the covering member in overlapping relation against the outer wall of the body of filamentary material and twisting the overlapping end portions relative to one another to tightly place the covering member against the filamentary material.

2,668,403
METHOD OF MAKING HEAT-SEALED AND HEAT-SHRUNK PACKAGE
Herbert Rumsey, Jr., Rochester, N. Y.
Application February 17, 1951, Serial No. 211,530
3 Claims. (Cl. 53—10.5)

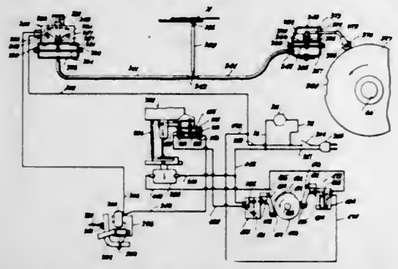


1. The method of making a package which comprises: placing package contents on a relatively stiff supporting member having a coating of thermoplastic material on the outer surface thereof; wrapping thermoplastic sheet material of the type which shrinks when subjected to heat and which has a higher melting point than the thermoplastic coating, around the package contents and support with marginal areas of the sheet material arranged in overlapping relationship in contact with the support; heat sealing the overlapping marginal areas of the sheet material together; and subjecting the wrapped package to a temperature lower than the melting point of the sheet material but higher than the melting point of the thermoplastic coating so as to shrink the sheet material tightly around the package and so as to seal the wrapping material to the support.

2,668,404
STOP MOTION APPARATUS FOR WRAPPING MACHINES
Jocie C. Barefoot, Charlotte, N. C.
Application June 1, 1949, Serial No. 96,505
5 Claims. (Cl. 53—29)

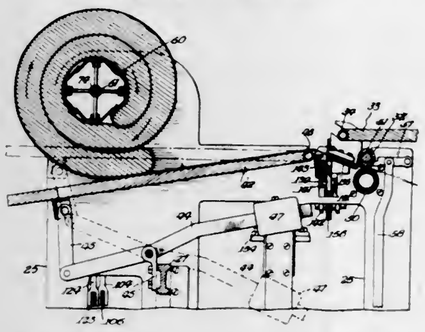
1. In a wrapping machine having a conveyor for transporting articles to a wrapping station, a drive means for said conveyor, means for deliv-

ering separate sheets of wrapping material to the wrapping station in timed relation to the transfer of articles to the wrapping station, and a source of power; a stop motion system comprising a power transmission clutch between the drive mechanism and the power source, an electromagnet device for controlling said clutch, a normally closed pneumatic switch, a normally open circuit connecting said electromagnetic device and said switch with a power source, an air pump for impressing pressure changes on said



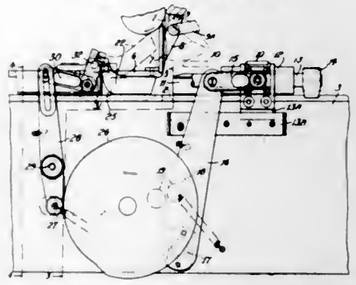
switch, wrapping sheet sensing means in the path of a wrapping sheet as it is being delivered to said wrapping station responsive to such sheet for rendering effective the influence of said air pump to open said switch, means operative concurrent with the delivery of an article to said wrapping station by said conveyor for impressing a momentary electrical impulse on said circuit following operation of said pump, and means operative during the operation of said pump for closing said normally open circuit.

2,668,405
MATTRESS WINDING AND WRAPPING MACHINE
Joseph W. Droll, Chicago, Ill., assignor, by mesne assignments, to Meridan Corporation, Providence, R. I., a corporation of Rhode Island
Application January 29, 1951, Serial No. 208,278
12 Claims. (Cl. 53—52)



6. A mattress wrapping machine comprising: a frame; front and rear mattress-supporting table sections with a gap therebetween; a pair of rolls under the rear section for feeding a web of paper through the gap and onto the front section; the rear section being supported to swing vertically in the frame to provide access to the feed rolls; means for holding one of the rolls separated; an expansible and contractible mandrel over the front table section; mechanism including a motor and a clutch for rotating the mandrel for winding the mattress thereon and wrapping the web of paper around the mattress; a pedal on the front of the frame for shifting the clutch; means for expanding the mandrel to grip the paper and for contracting the mandrel to release the mattress including pedals at the front of the frame; pedals on the front of the machine for operating the means for collapsing and contracting the mandrel, and means for yieldingly urging the front table section to press the mattress against the mandrel.

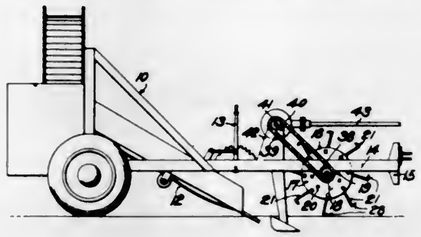
2,668,406
WRAPPING OR PACKING MACHINE
Donald Richard Patrick Jackson, Deptford, London, England, assignor to Molins Machine Company, Limited, Deptford, London, England, a British company
Application August 27, 1951, Serial No. 243,876
Claims priority, application Great Britain September 5, 1950
1 Claim. (Cl. 53—131)



A wrapping machine for forming block-ended wrappings of the kind referred to, and open at one end, comprising top and bottom plates and a pair of narrow side tuckers, means for moving an article against a strip of wrapping material located transversely of the path of the article and between said top and bottom plates to form the wrapper into a U about the article and thereafter between said pair of narrow side tuckers, mechanically operated tuckers, and mechanism for moving said last named tuckers over the sides of the article, before the narrow tucks are folded, to fold the parts of the strip extending laterally in the plane of that face of the article nearer to said mechanically operated tuckers to form one pair of long side folds, each said mechanically operated tucker comprising a plate, a pivot for said plate, said plate having an operative edge comprising a straight portion merging into a convex curve nearer to the pivot of said plate, said curve forming a heel to fold the leading ends of the said side folds, said mechanically operated tuckers being pivoted on an axis located a short distance beyond (with reference to the direction of movement of the article) those ends of the narrow side tuckers which first engage the strip, so that the side folds lie adjacent to the sides of the article and the narrow tucks lie on the outside of said side folds.

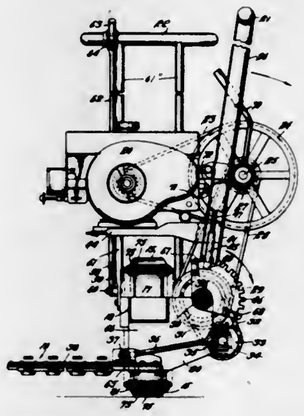
2,668,407
ROTARY BEET TOPPER
Delmer F. Sherman, New Plymouth, Idaho
Application May 6, 1952, Serial No. 286,255
3 Claims. (Cl. 56—26)

1. Means for scraping the tops from beets standing in a row comprising a power driven and generally cylindrical member rotatable on an axis substantially horizontal and cross-wise of the beet row, a plurality of longitudinal rows of yieldable scraper arms carried by said rotary member, the rows being spaced circumferentially around the member with the arms projecting substantially radially outward of the latter, a scraping blade at the outer ends of said arms projecting substantially at a right angle to the arm and provided with a row of pointed teeth having their outer faces beveled, pivot means mounting the arms of each row for swinging movement on axes extending longitudinally of



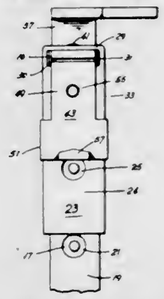
the member, stop means for limiting the swinging movements of the arms in one direction, and spring means associated with each of said arms to normally hold them in positions substantially radial of said member, whereby when the teeth of a blade engage the top of a beet root the arm of that blade will yield rearwardly and allow the blade to substantially follow the contour of the top of the root.

2,668,408
RECIPROCATING POWER MOWER, STEERED BY WALKING ATTENDANT
Karl J. Klenk, Wilmington, Del.
Application February 10, 1951, Serial No. 210,360
7 Claims. (Cl. 56—26.5)



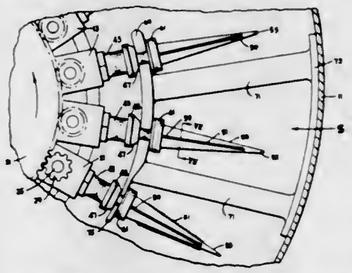
1. A power mower of the character disclosed comprising a single tractor chain, a sickle type cutter projecting from one side of said chain, a motor mounted for driving said tractor chain and cutter, a pair of handles for guiding said mower, control means for the mower adjoining said handles, a supporting frame for the tractor chain and cutter connected with one of said handles, the other handle being pivotally connected with said frame and supporting said motor, and drive connections from said motor to said cutter and including a shaft carrying a drive gear, the pivotal mounting for said handle being concentric with said shaft and whereby angular adjustments of said handle will not affect the driving connections from said motor to said cutter.

2,668,409
KEEPER MEANS FOR COTTON PICKING SPINDLE SLATS
John J. Bramblett, Pine Bluff, Ark., assignor to Ben Pearson, Incorporated, Pine Bluff, Ark., a corporation of Arkansas
Application April 4, 1952, Serial No. 280,689
8 Claims. (Cl. 56—42)



1. Keeper means adapted for use with a slat assembly for a cotton picking machine comprising a face portion adapted to lie along the face of said assembly, a tongue attached to and extending from one end of said face portion substantially perpendicularly thereto, said tongue including a camming boss intermediate its length, a pair of arms extending from the opposite sides of said body adjacent the opposite end of said face portion, said arms being disposed substantially parallel to each other and perpendicular to said face portion and underlying said tongue, and being adapted to embrace and frictionally engage said assembly remote from the end thereof, said face portion being apertured for the passage of a cotton picking spindle therethrough.

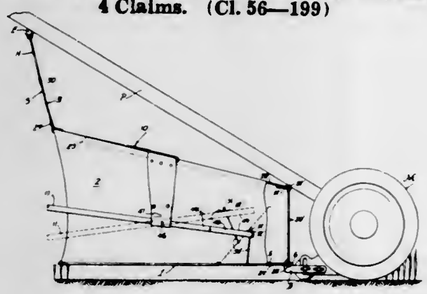
2,668,410
COTTON PICKING MEANS
John J. Bramblett, Pine Bluff, Ark., assignor to Ben Pearson, Incorporated, Pine Bluff, Ark., a corporation of Arkansas
Application September 8, 1952, Serial No. 308,335
13 Claims. (Cl. 56—44)



1. Cotton picking spindle means adapted for mounting in a cotton picking machine, comprising an elongated core, a journal portion surrounding said core adjacent one end of the core and supporting the core for rotation, a plurality of uniformly tapering blades carried by said core in alinement with the longitudinal axis of the core, said blades each including a serrated edge and having an edge opposite said serrated edge seated on and rigidly fixed to said core, each said blade extending from a portion of said core intermediate the length of said core substantially to the other end of said core, said blades radiating from said core in substantially equally spaced re-

lation about said core and tapering toward said other end, a collar carried by said core adjacent said intermediate portion, a tapering shell of polygonal cross section slidably mounted on said core having a like plurality of elongated slots, said blades respectively being positioned in said slots, said shell having a ring adjacent said collar, an end tip adjacent said core other end, and being longitudinally shiftable relative to said core from a retracted position in which said tip substantially abuts said adjacent core end, said collar and said ring are in proximate relation, and said serrated blade edges project beyond the exterior surface of said shell to an advanced position in which said tip is spaced from said adjacent core end, said ring is spaced from said collar, and said shell surface is substantially flush with said serrated edges and return, an attachment member extending through the interior of said core substantially from end to end and detachably secured at one end to said shell tip, a compression spring abutting said core interior and said attachment member adjacent its other end urging said shell into said retracted position, said spring resisting shift of said shell to advanced position and urging return from advanced position.

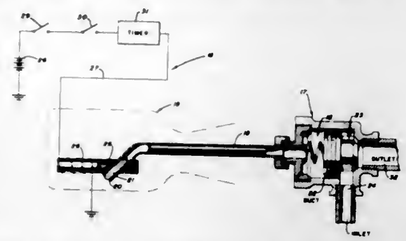
2,668,411
GRASS CATCHER FOR LAWN MOWERS
John C. Kircher, Jr., Mountain View, Calif.
Application May 3, 1952, Serial No. 285,923
4 Claims. (Cl. 56—199)



1. In a lawn mower grass catcher of the type having a throw plate extending across the fore end of its bottom and hingedly connected to said bottom at the rearward edge of said throw plate; means for offsetting said catcher to one or the other side of the mower to which it is attached dependent upon the direction of throw of the clippings from said mower into said catcher for effecting uniform distribution of said clippings on said throw plate comprising a forward transverse bar on said catcher for supporting the fore edge of the bottom thereof, said transverse bar being of a length slightly greater than the width of the bottom of said catcher to afford sliding movement thereof to one or the other extreme end of said transverse bar, and means for securing said bottom of said catcher to that end of said transverse bar to which it is moved.

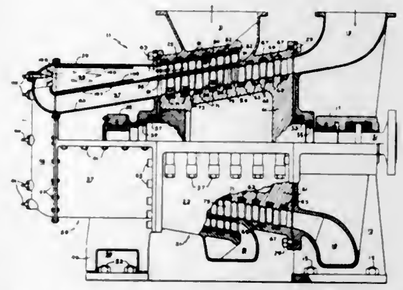
2,668,412
ONE SHOT ROCKET MOTOR STARTING SYSTEM
Bertram N. Abramson, Whippany, N. J., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application July 17, 1952, Serial No. 299,484
1 Claim. (Cl. 60—39.14)

In a starting system for a liquid propellant rocket motor, a trigger valve actuable to start said motor, and including a pressurized fluid chamber, means responsive to the release of pressurized fluid from said chamber for actuating said trigger valve, a tube connected to said chamber and having a discharge end for releasing said pressurized fluid, fusible material sealing said



discharge end, a pyrotechnic igniter in contact with said discharge end operable to melt said fusible material, an electrical resistance heating element in contact with said igniter for firing the igniter, and switch controlled means energizing said heating element.

2,668,413
GAS TURBINE POWER PLANT WITH DUPLEXED BLADING
James V. Giliberty, West Hempstead, N. Y.
Application March 15, 1948, Serial No. 15,038
11 Claims. (Cl. 60—39.16)
(Granted under Title 35, U. S. Code (1952), sec. 266)

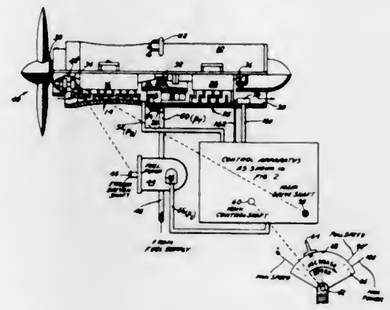


1. In a turbine of the class described, a shaft, a plurality of compressor stages through which fluid is adapted to flow in series, a combustion chamber communicating with the end compressor stage of said series, and a plurality of turbine stages arranged in series radially outward from said compressor stages and communicating with the outlet of said combustion chamber, said turbine stages and selected compressor stages each having a common rotor blade driven uni-directionally by said shaft and a common stator blade.

2,668,414
CONTROL APPARATUS FOR JET ENGINES
Leighton Lee II, Rocky Hill, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application December 3, 1948, Serial No. 63,374
29 Claims. (Cl. 60—39.28)

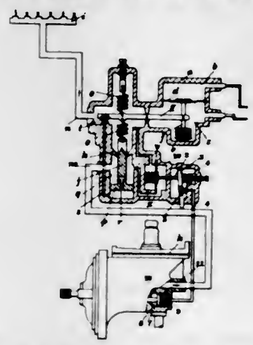
1. Fuel and speed control apparatus for an internal combustion engine having a pump separate from said apparatus, for delivering fuel to said engine, and an air compressor, said pump having means for varying said fuel delivery in accordance with a variable control pressure of a liquid supplied to said pump by said apparatus

from a source separate from said fuel supply; comprising: means for modifying a portion of the discharge pressure of said compressor in accordance with the speed of said engine, and means for varying said control pressure in accordance with said modified discharge pressure, so that the fuel delivery of said pump is a predetermined function of compressor discharge pressure and engine speed.



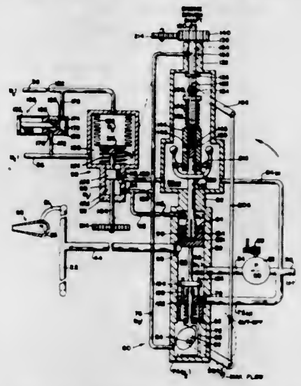
25. Control apparatus for an internal combustion engine having an air compressor and means separate from said apparatus for supplying fuel to said engine, comprising: means for regulating the flow of fuel to said engine, motor means for positioning said fuel flow regulating means, means responsive to engine speed for modifying a portion of the discharge pressure of said compressor, means responsive to said modified discharge pressure for controlling said motor means, and a stop for selectively limiting the travel of said motor means in a fuel flow decreasing direction.

2,668,415
MEANS FOR AUTOMATICALLY CONTROLLING THE SUPPLY OF LIQUID FUEL TO PRIME MOVERS
Owen Napier Lawrence, Dorridge, England, assignor to Joseph Lucas Limited, Birmingham, England
Application November 14, 1951, Serial No. 256,335
Claims priority, application Great Britain November 17, 1950
3 Claims. (Cl. 60—39.28)



1. In means for automatically controlling the supply of liquid fuel to a prime mover in response to variations in liquid fuel pressure and blower-air pressure, the combination with a movable part to be actuated by blower-air pressure of a body having therein a chamber, a fluid pressure responsive member dividing the chamber into two compartments and operatively connected to said movable part, means for admitting air at blower air pressure into one of said compartments, means for admitting air at atmospheric or blower inlet pressure to the other of said compartments, and an evacuated capsule located in the said second mentioned compartment and operatively connected to said pressure responsive member to oppose the action of the air at blower pressure thereon, said capsule having an effective diameter less than that of the pressure responsive member whereby the force exerted on said member is in part dependent on the absolute pressure of the blower air and in part on the difference between the pressure of blower air and blower inlet or atmospheric pressure, whereby the fuel-air ratio supplied to the prime mover is maintained at desired values under idling conditions of the prime mover.

2,668,416
FUEL CONTROL APPARATUS FOR TURBOJET ENGINES
Leighton Lee II, Rocky Hill, Conn., assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application September 28, 1946, Serial No. 700,092
34 Claims. (Cl. 60—39.28)

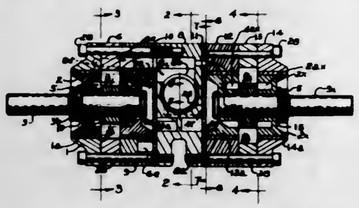


1. Fuel control apparatus for a turbo-jet engine having an incorporated air compressor and a constant delivery pump associated with said engine for delivery of fuel thereto, comprising: control means responsive to the pressure differential between the compressor inlet and outlet pressures for deriving a control pressure from the pressure downstream from said pump, and regulating means responsive to said control pressure for regulating said downstream pressure and hence the fuel flow to the engine, whereby the fuel flow to the engine varies as a function of said pressure differential.

2,668,417
ROTARY PUMP AND MOTOR TYPE FLUID TRANSMISSION
Vernon E. Gleasman, Elmira, N. Y.
Application February 26, 1951, Serial No. 212,739
8 Claims. (Cl. 60—53)

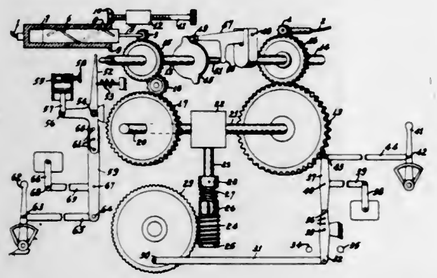
3. A self-contained fluid drive of infinite ratio, comprising a unit including a fluid pump, a fluid motor, and a valve in a fluid circuit connecting the pump and motor; a pump drive shaft; a driven shaft for the motor; said pump and motor each comprising a central annular casing with side members; rotors for the pump and motor

within their respective casings mounted on their respective shafts; said side members having journals therein coaxial with their respective pump and motor shafts; hub members rotatable in said journals and rotatably on their respective shafts; means for contracting the hub members against the sides of their respective rotors; said hub members being of substantially the same diameters as their respective rotors and being freely rotatable with their rotors; the casings each making a running fit with the peripheries of their rotors; inlet and outlet ports for said pump and motor extending to opposite sides of their respective rotors, the outlet ports of the pump discharging into the fluid circuit and the inlet



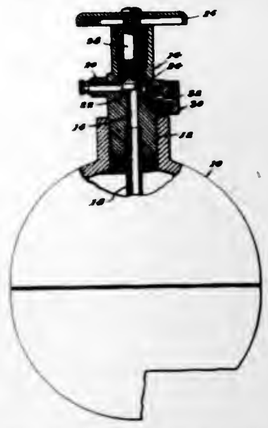
ports of the motor leading from the fluid circuit; said rotors having series of radial slots; radially movable blades in said slots adapted to engage the inner walls of the pump and motor; said hub members having annular slots in their faces adjacent the rotors and communicating with the ends of the blade slots; ducts for directing fluid under pressure of the fluid circuit into one of the annular slots of the pump and motor hub members to force the blades outwardly of the rotor slots; said valve being operable to effect reversal of the motor rotor; and pressure responsive means associated with the valve for automatically positioning the vanes of the motor rotor into contact with the inner walls of the motor before pressure fluid is applied to the motor.

2,668,418
PHASING OF ENGINES, MOTORS, AND THE LIKE
William A. Tolson, Hightstown, N. J.
Application July 26, 1951, Serial No. 238,750
16 Claims. (Cl. 60—97)



3. In a system for phasing two drivers, independently-operated manual speed-control means, means comprising a differential and an integrator for effecting modification of the relative speed-control settings to produce approximate synchronization, and means comprising a cam driven by one of said drivers, and a cam follower driven by the other of said drivers, for effecting modification of the relative speed-control settings to produce phasing.

2,668,419
FLUID CARBON DIOXIDE COMPOSITION
Daniel Mapes, West Caldwell, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application October 26, 1951, Serial No. 253,243
10 Claims. (Cl. 62—1)

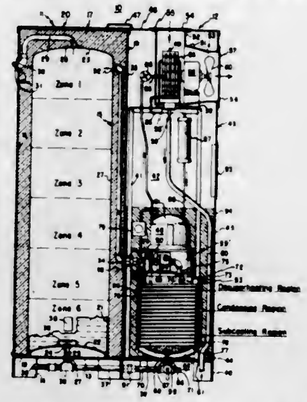


1. A charge of fluid medium confined under pressure in a fluid-tight storage container having a closure controlled discharge passage, said charge comprising principally carbon dioxide; a halogenated hydrocarbon having a freezing point temperature much lower than —70° F. and having a boiling point temperature higher than —70° F. while under a pressure of about 150 pounds per square inch absolute and having a vapor pressure at 160° F. which is lower than that of carbon dioxide at such temperature, said halogenated hydrocarbon being in admixture with said carbon dioxide in an amount sufficient to maintain said carbon dioxide in fluid state at and below its triple point temperature while confined in the container; and a compressed gas inert to carbon dioxide and said halogenated hydrocarbon which gas when present in sufficient quantity is capable of exerting a pressure of at least 100 pounds per square inch absolute at —80° F. while confined within the container, the weight of the charge in relation to the volumetric capacity of the container being such that the charge is safely confineable in the container without building up excessive pressures at temperatures as high as about 160° F. and said inert gas being present in an amount sufficient to coact with the carbon dioxide and said halogenated hydrocarbon to cause the charge to exert on the container a pressure in excess of about 100 pounds per square inch absolute at about —80° F., whereby the charge is dischargeable from the container at a relatively high rate at temperatures below —70° F. without a tendency of the carbon dioxide to solidify and clog the passage through which it is discharged.

2,668,420
COMBINATION WATER HEATING AND ROOM COOLING SYSTEM AND METHOD EMPLOYING HEAT PUMPS
Kemper M. Hammell, Harrisburg, Pa., assignor to General Electric Company, a corporation of New York
Application March 20, 1951, Serial No. 216,626
27 Claims. (Cl. 62—4)

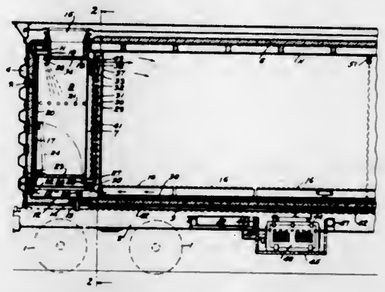
1. In a water heating system including an upstanding hot water storage tank, a cold water

inlet connection communicating with the lower portion of said tank, and a hot water outlet connection communicating with the upper portion of said tank; the combination comprising an upstanding water vessel, a first conduit communicating between the lower portion of said tank and the lower portion of said vessel, a second conduit communicating between the upper portion of said tank and the upper portion of said vessel, means for heating the water in said



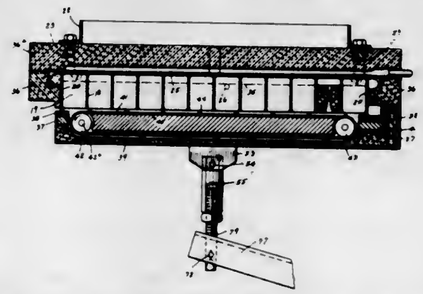
vessel in order to cause the water to rise therein so as to induce a thermo-siphon circulation of the water from the lower portion of said tank via said first conduit into the lower portion of said vessel and from the upper portion of said vessel via said second conduit into the upper portion of said tank, a valve arranged in said second conduit and selectively operable to control the passage therethrough of the water from the upper portion of said vessel into the upper portion of said tank, and thermal responsive means for selectively operating said valve.

2,668,421
REFRIGERATOR CAR WITH FAN AND BRINE CIRCULATING SYSTEM
Thore M. Elfving, San Mateo, Calif., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois
Application March 30, 1951, Serial No. 218,350
10 Claims. (Cl. 62—24)



1. In a refrigerated railway car having an insulated lading accommodating space, the combination of an ice and brine accommodating tank mounted within said car at one end and spaced from the top, bottom, end and side walls thereof for free passage of air therearound, a baffle disposed vertically and transversely of said car body and terminating in spaced relation with the floor and ceiling of the car to provide an air passageway adjacent the inward side of said ice tank, a heat exchange unit mounted at the other side of said baffle and within the upper and lower limits thereof, a brine pump for circulating brine from the bottom of said tank through said heat exchange unit and discharging same as a spray at the top of said ice tank, an insulating end wall mounted in inwardly spaced relation with respect to said heat exchange unit which defines the limits of the lading space and provides an air circulating passageway through which air will circulate over said heat exchange unit, said end wall being disposed with its bottom edge in spaced relation with floor of the car and having an aperture located above said heat exchange unit, an electric fan mounted in the aperture in said end wall cooperating relation with said baffle for maintaining a forced circulation of air from the lading space about said ice tank and over said heat exchange unit, and means at the lower edge of said baffle for directing the major portion of the fan circulated air over said heat exchange unit.

2,668,422
ICE-MAKING MACHINE
Dormon B. McShan, Indianapolis, Ind., assignor to John R. Bayston, as trustee, Icecrafter (Liquidating) Trust, Van Nuys, Calif.
Application August 29, 1951, Serial No. 244,152
8 Claims. (Cl. 62—106)

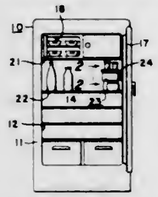


1. In an ice cube making machine, the combination of a freezing unit comprising a plurality of cells normally open at the bottom, a closure plate for said unit movable to close and seal said unit during a freezing cycle, means for introducing into said cells a liquid to be frozen into ice cubes, means for refrigerating said unit to freeze the liquid therein, an endless belt mounted in said closure plate extending transversely of and closely adjacent the open bottom of the several cells in said unit, and means carried by said plate operably connected with said belt for imparting continuous movement thereof in one direction to effect an agitation of the liquid during the freezing cycle.

2,668,423
REFRIGERATOR UTILITY DRAWER MOUNTING
Carl F. Petkwitz, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application June 18, 1952, Serial No. 294,151
1 Claim. (Cl. 62—116)

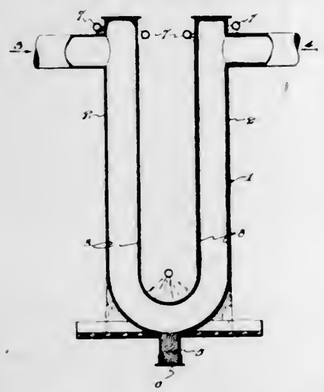
In a refrigerator, a cabinet, said cabinet having a compartment therein, a closed refrigerating system associated with said cabinet, said system including a refrigerant translating unit and a re-

frigerant evaporator for cooling the interior of said compartment, vertically spaced apart elements extending continuously across said compartment to define therebetween an area of predetermined height adapted to receive and store tall articles in an upright position, a covered receptacle device in said compartment, means independent of said elements for mounting said device within said area of predetermined height, said mounting means positioning the bottom of said receptacle device in spaced relation above the lowermost of said vertically spaced apart elements to form within said area of predetermined height a first smaller food storage area, said lowermost element providing a support for receiving and storing relatively short in height articles within



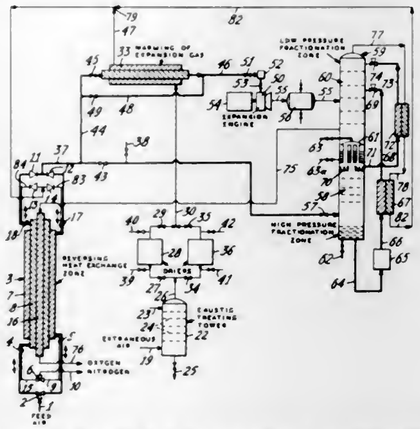
said first smaller food storage area beneath said device, said mounting means positioning the cover of the receptacle of said device in spaced relation below the uppermost of said vertically spaced apart elements to form a second smaller food storage area within said area of predetermined height, said cover of said receptacle providing a support for receiving and storing relatively short in height articles thereon within said second smaller food storage area above said device and below said uppermost element, and said independent mounting means preventing the weight of contents of said receptacle device and the weight of articles supported on the cover thereof from being transmitted to either of said elements.

2,668,424
PROCESS FOR COOLING VAPOROUS MATERIALS
Alfred C. Mueller, Chadds Ford, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application October 26, 1950, Serial No. 192,169
5 Claims. (Cl. 62—170)



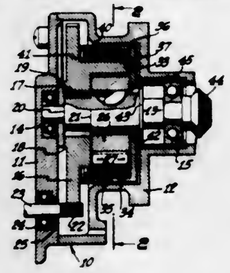
1. A process for removing sensible heat from a vaporous mixture which on cooling yields a solid as the first product of condensation, which comprises flowing said vapor continuously through a metal cooling conduit, the exterior surfaces of which are maintained at a temperature below the snowpoint of said vapor, forming and maintaining throughout the cooling and sensible heat removal operation a protective layer of the condensed solid on the interior surfaces of said cooling conduit, and thereafter exiting said vapor from said conduit at a stabilized temperature without materially changing its composition on introduction to said conduit.

2,668,425
REMOVING IMPURITIES FROM A GAS LIQUEFACTION SYSTEM WITH AID OF EXTRANEOUS GAS STREAM
George T. Skaperdas, Flushing, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application August 25, 1951, Serial No. 243,699
11 Claims. (Cl. 62—175.5)



1. In a process for fractionating a compressed gaseous mixture in a low-temperature expansion and fractionating system, wherein an inflowing charge stream of said compressed gaseous mixture enters said system at a pre-expansion pressure from a reversing heat exchange zone in which said inflowing stream is cooled and in a cold part of which high-boiling impurities are precipitated, and wherein an outflowing product stream leaves said system at a post-expansion pressure through said reversing heat exchange zone, absorbing heat and scavenging said precipitated high-boiling impurity by revaporization, said inflowing and outflowing streams being flowed countercurrently and alternately with each other through periodically reversing paths in a heat exchange relation in said reversing heat exchange zone, a method for preventing the excessive accumulation of said precipitated impurity in said cold part of the paths of said reversing heat exchange zone during several cycles of operation, which method includes the steps of: introducing into said system an extraneous stream of relatively warm gas which enters said fractionating system at a post-expansion pressure and without passing through said reversing heat exchange zone; cooling said extraneous stream to a temperature not lower than the temperature of condensation of said inflowing compressed gaseous mixture, by flowing said extraneous stream in indirect heat exchange with a stream flowing in said fractionating system under pre-expansion pressure; and subsequently introducing said extraneous stream into said fractionating system at a point under post-expansion pressure to augment said outflowing stream prior to its passage through said cold part of said reversing heat exchange zone.

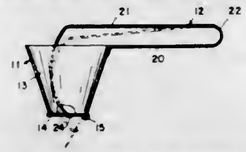
2,668,426
TORQUE LIMITING CLUTCH
Vaino A. Hoover, Los Angeles, Calif.
Application October 1, 1948, Serial No. 52,376
2 Claims. (Cl. 64—29)



1. A torque limiting clutch which includes: a a shaft; a driving member mounted on said shaft for rotation with respect thereto; a cam-shaped driven member mounted on said shaft for rotation therewith, adjacent said driving member, said driven member being generally circular in shape and having a plurality of generally axially extending serrations on its outer face; a plurality of axially extending fingers projecting from said driving member to overlie said driven member and spaced radially outward therefrom, said fingers being formed as chordal portions of an annular ring with circumferentially extending spaces between adjacent fingers, said spaces being uniformly located around the circumference of said driven member; a plurality of rollers whose axes are parallel to the axis of said shaft. located between said fingers and rotatable thereby about the axis of said shaft, said rollers engaging said serrations of said driven member to rotate the latter; an endless band comprising a plurality of concentric members fitted one within another and surrounding said rollers, said concentric members cooperating with each other and said rollers to urge said rollers inwardly toward said driven member, said band being of a resilient material and of a circular shape when said rollers are in the troughs formed by said serrations, but deformable, without increase in its peripheral dimension, into a polygonal shape as said rollers rise to the crests formed by said serrations, said band being free to rotate about the axis of said shaft and being rotated thereabout by said rollers as the latter ride over said rises; and generally annular retaining means adjacent said driven member and rotatable with respect thereto and with respect to said driving member, mounted on said shaft for rotation with respect thereto, but held against axial movement and against displacement from a plane substantially perpendicular to the axis of said shaft, said retaining means surrounding said resilient band and being radially spaced therefrom when said band has its circular configuration, the axial ends of said band being held against displacement by said driving means and said retaining means, whereby said band is held in alignment with said rollers at all times.

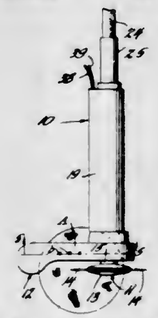
2,668,427
COFFEE MEASURE AND DISPENSER HAVING AN INTEGRAL HANDLE AND CLOSURE OPERATING MEMBER
Kermit L. Seeley, Los Angeles, Calif.
Application February 9, 1950, Serial No. 143,801
1 Claim. (Cl. 65—28)

A dispensing measuring cup, comprising a receptacle having an open top and an opening at the bottom, a closure member hingedly mounted at the lower end of the receptacle and normally closing said opening, a handle on said receptacle, said handle comprising a base section secured to said receptacle and extending laterally therefrom, and a springy operating lever section bent back upon the base section and extending gen-



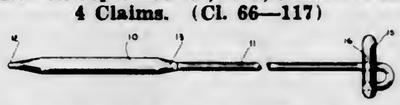
erally axially through said receptacle to said closure member, said operating section being pivotally connected to said closure plate, said operating section being movable against the springiness thereof to move said plate to open position, said handle normally acting to yieldably hold the plate closed.

2,668,428
DEVICE FOR RESTORING DEFECTIVE KNITTED FABRICS
Gus T. Smith, Paducah, Ky., assignor to Marvel Specialty Company, Paducah, Ky., a corporation of Kentucky
Application October 2, 1952, Serial No. 312,820
6 Claims. (Cl. 66—1)



1. In a device for restoring knitted fabric, in combination, a rotatable head having fabric engaging surfaces disposed in a plane, a handle member upon which said head is mounted for rotation about an axis to bring said surfaces successively into contact with the work, and a heating means having a fabric engaging surface, said heating means being also mounted upon said handle member, the head and heating means being so relatively positioned that the operator may, while continuously moving the device in one direction, bring about completion of the operation of restoring a damaged area of fabric and, immediately thereafter, the application to said restored area of the fabric engaging surface of said heating means.

2,668,429
EXTENSIBLE KNITTING NEEDLE
Bernice E. Barsky, Brooklyn, N. Y.
Application September 23, 1952, Serial No. 311,063
4 Claims. (Cl. 66—117)



1. An extensible knitting needle comprising a relatively rigid knitting point, a flexible cable of lesser diameter than the knitting point extend-

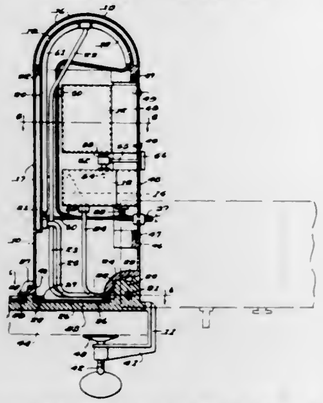
ing from one end of the latter, and a collar having an opening through which the cable passes, thus mounting the collar on the cable for sliding movement, the cable being bent back upon itself and the free terminal thereof being secured to the collar, the collar being sufficiently large to act as an abutment for limiting travel of the knitted material on the needle.

2,668,430
STOCKING
Russell K. Laros, Bethlehem, Pa., assignor to R. K. Laros Silk Company, Bethlehem, Pa., a corporation of Pennsylvania
Application November 3, 1951, Serial No. 254,780
11 Claims. (Cl. 66—178)



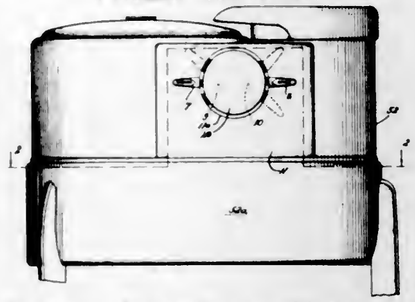
1. A new article of manufacture for use as a stocking and at least a portion of which is formed from normally high gloss continuous filament yarns of a thermoplastic fiber-forming material having a large number, of the order of approximately one hundred per inch, of permanent, preformed regularly spaced sinuous bends of substantially equal depth and characterized by uniformly low to substantially no gloss solely as a result of the regular spacing and number of bends therein.

2,668,431
COMBINATION HORIZONTAL AND VERTICAL ELECTRIC AND STEAM IRON
Ruth Carlston, Fresno, Calif.
Application August 18, 1950, Serial No. 180,200
5 Claims. (Cl. 68—5)



1. A combination electric and steam iron comprising a cylindrical shell having perforations in one side and having a semi-spherical upper end also with perforations therein, an inner wall spaced from the side having the perforations therein and also spaced from the said semi-spherical upper end, a partition extended between the inner wall and shell dividing the area between the inner wall and shell into steam jackets with one positioned in the cylindrical portion of the shell and the other in the semi-spherical upper end, a bracket having a clamp thereon upon which the shell is positioned, means hinging the shell to the bracket whereby the shell is positioned vertically or horizontally, steam generating means in the shell, means connecting the steam generating means to the steam jacket in the semi-spherical end of the shell with the shell in an upright position, and means connecting the steam generating means to the steam jacket in the cylindrical section of the shell with the shell in a horizontal position.

2,668,432
CONTROL MECHANISM FOR SPIN-DRY WASHING MACHINES
Clayton F. Emmert, Newton, Iowa, assignor to Automatic Washer Company, Newton, Iowa
Application June 22, 1949, Serial No. 100,660
8 Claims. (Cl. 68—26)

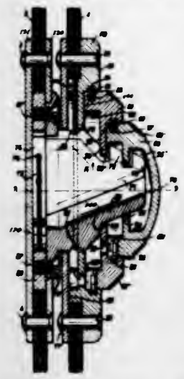


1. In a spin-dry washing machine, a washing compartment having a drain valve, means for opening said valve and draining fluid from said compartment comprising a control panel upon one side of said machine, a shaft journalled in said panel, a control lever upon the outer end of said shaft, a lever upon the inner end of said shaft, a link extending from said last-mentioned lever, an oscillatable lever connected to said link, means connecting said oscillatable lever and drain valve whereby movement of said first-mentioned lever will open said valve, a drain pump having an inlet adapted for connection with said drain valve, drive means for the pump, a clutch to connect the drive means to the pump, a second shaft journalled in said panel, a second control lever upon the outer end of said second shaft to turn the shaft, a lever upon the inner end of said second shaft movable therewith for actuating said clutch to start said pump for draining said compartment when said second control lever is moved to a predetermined position.

2,668,433
COMBINATION LOCK
Auguste Schnegg, Pieterlen, by Bienne, Switzerland
Application November 25, 1950, Serial No. 197,530
Claims priority, application Switzerland July 19, 1950
2 Claims. (Cl. 70—4)

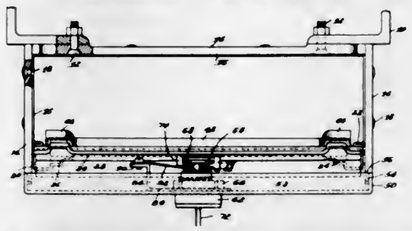
1. In a combination lock joining two separable, apertured flat parts, a first part carrying a first portion of said combination lock comprising a hollow guiding core provided with a sliding toothed latch, a second part carrying a second portion of said combination lock comprising a supporting frame through which said core extends and on which are stacked coaxial washer like discs having external marks for a secret combination and a radial inner slot, whereby these discs are separately rotatable and cooperate with the teeth of the latch, the following structure comprising: supporting members fastened

to said first flat part and shaped to form a recess limited by a flat bottom parallel to the first flat part and by peripheral walls; said guiding core being of substantially conical shape and being fastened to said supporting members, said core having a lower face opposite and parallel to the flat bottom of said recess and a radial straight-lined slot, said latch comprising a plate having a plurality of aligned saw-type teeth po-



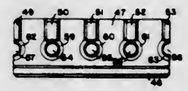
sitioned and guided in said radial slot and a base-plate (74) resting on the flat bottom of said recess, said base-plate being held in said recess by the lower face of said core, spring means yieldingly applied on the peripheral walls of said recess and on said base-plate to urge the teeth of the latch outwardly of said radial slot into locking engagement with said washer like discs.

2,668,434
MAIL CHUTE LOCK
George A. Bridgman, Rochester, N. Y., assignor to Cutler Mail Chute Company, Rochester, N. Y., a corporation of New York
Application April 3, 1951, Serial No. 219,010
3 Claims. (Cl. 70—77)



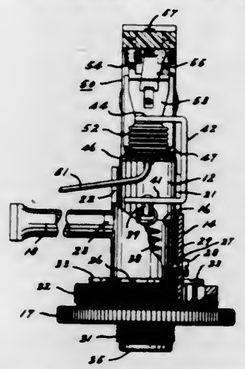
1. A locking device for the removable front panels of mail chutes embodying a bracket frame adapted to embrace and support the channel members of a chute section, a removable and replaceable locking bar spanning said frame and interlocking at its ends with forward portions of side walls thereof, a key controlled lock carried by the locking bar and operatively cooperating with a portion of the frame when its key is turned in one direction to secure the bar thereto and confine said panels within the frame and against the channel members, means normally tending to eject the locking bar from such position on the frame, said ejecting means being energized by the act of applying the locking bar to the frame, said lock on the locking bar embodying a threaded barrel extending through the bar and having a lock nut on the inside thereof and a rotary cylinder in the barrel terminating in an inner head; the bracket frame embodying a transverse front bar having a forwardly projecting undercut lug thereon with which the said cylinder head cooperates when turned to locking position; an angular post on the rear of the locking bar including a base secured beneath the barrel locking nut, and a leaf spring on the post in position to be depressed and tensioned by the lug and to constitute the ejecting means when the locking bar is adjusted to locking position on the frame.

2,668,435
HOLLOW STRUCTURAL BUILDING UNIT
Norman Thomas Clements, Pittsburgh, Pa.
Application November 12, 1948, Serial No. 59,663
4 Claims. (Cl. 72—41)



3. A building block comprising, a body member having opposed top and bottom flat faces, a longitudinally extending elongated bar portion on the top face adjacent one side edge thereof, said body portion having a plurality of spaced openings therein extending from the top face to the bottom face, each of said openings being extended above the top face by an extension collar portion, and a plurality of transverse short bar portions positioned on said top face portion in alignment with the collar portions and extending transversely thereof in parallel relation individually between said collar portions and the other side edge of the top face portion, said extension collar portions being of greater height than the longitudinal and transverse bar portions and adapted to interfit with the spaced openings in the bottom face of a block.

2,668,436
TESTING APPARATUS FOR THERMOSTATIC SWITCHES
James W. Jacobs and Albert O. Grooms, Dayton, Ohio, assignors to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application December 6, 1950, Serial No. 199,542
4 Claims. (Cl. 73—1)



1. A portable apparatus for testing a thermostatically actuated switch having an operating mechanism, means for adjusting said mechanism, and a sealed fluid containing temperature responsive unit including an expansible and contractable pressure element having one end thereof stationarily mounted on a part of the switch with its other end movable for actuating said

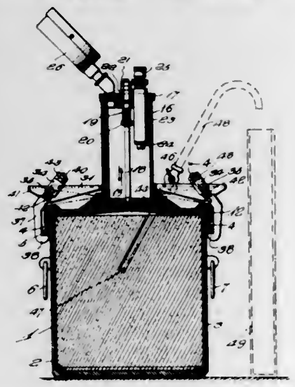
mechanism and a tube extending from one of its ends adapted to be cooled while the switch is being tested comprising; a first portion provided with means removably receiving the switch and rigidly clamping the stationarily mounted end of its pressure element against movement relative thereto, a second portion movable into and out of said first portion, a force applying means having its one end connected to said movable portion of said apparatus and having its other end secured to a member fitted over the movable end of said switch pressure element for contracting the same to actuate the switch mechanism during the testing operation, means for moving said second portion of said apparatus longitudinally relative to said first portion thereof to vary the force applied by said force applying means to said switch element, and means rendered effective by movement of said portions of said apparatus relative to one another for indicating the temperature at which said switch operating mechanism adjusting means is set.

2,668,437

APPARATUS FOR METERING ENTRAINED AIR OR GAS BY PRESSURE OBSERVATIONS

Orin G. Patch, Wenatchee, Wash., assignor, by decree of distribution, to Clara L. Patch

Application January 12, 1951, Serial No. 205,752
12 Claims. (Cl. 73—19)



1. In apparatus for determining the volume of entrained air and other gas in a concrete mix and like material, a sample container cup, a cover detachably fitted on said cup, a pressure chamber body carried by said cover, an air passage establishing communication from the pressure chamber to the cup, a valve normally closing said passage, a pressure gage connected with said pressure chamber, an air pressure generating means for said chamber, and means to open said valve for pressure air flow from said pressure chamber into said cup thereby changing indications of the pressure gage.

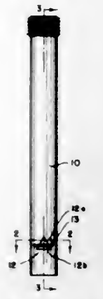
2,668,438

BUBBLE TUBE FOR SPECIFIC GRAVITY METERS

Carlton M. Marquardt, Salt Lake City, Utah, assignor to Combined Metals Reduction Company, Salt Lake City, Utah, a corporation of Utah

Application August 13, 1948, Serial No. 44,145
5 Claims. (Cl. 73—32)

1. A bubble tube for specific gravity meters, comprising a hollow tube having its lower end closed; a single opening formed in the side wall of the tube; and a divider element applied to the tube dividing said single opening into an upper,



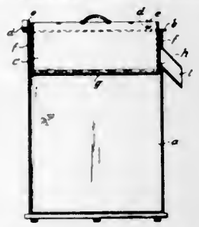
bubble-emitting orifice and a lower orifice correlated in size with said upper orifice to effect damping.

2,668,439

PROCESS AND MEANS FOR DETERMINING THE TRUE SPECIFIC GRAVITY OF WOOD

Theophil Reichert, Brilon-Wald, Germany

Application April 19, 1951, Serial No. 221,797
3 Claims. (Cl. 73—32)



3. Axylometer comprising a container open at the top and having an overflow lip at one side spaced below its top, a chute extending downwardly from the container at a point below and adjacent said lip, an outwardly extending flange on the top of said container, a tank removably mounted within the top portion of the tank and three-point supporting means between said tank and said flange, said supporting means being arranged to hold the sides of the tank spaced equally from the container sides.

2,668,440

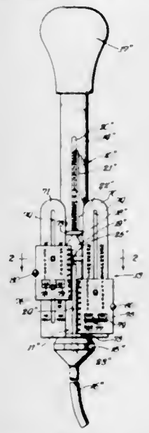
HYDROMETER

Frank R. Wilson, Lexington, Ky.

Application March 20, 1948, Serial No. 16,027
4 Claims. (Cl. 73—34)

1. A device for determining the temperature at which a solution will freeze comprising means for obtaining an indication of the specific gravity of the solution including a tube into which the solution to be tested is drawn and a float within said tube having thereon separate scales respectively indicating the specific gravity of heavier than water solutions and lighter than water solutions, means for obtaining an indication of the temperature of the solution including a column of temperature responsive fluid extending longitudinally of said tube and a bulb exposed to the solution drawn into the tube, and means for translating the specific gravity indication and the temperature indication into a measure of the freezing temperature which the solution will withstand comprising a first part fixed on said tube, a second part composed of a

pair of plates each mounted for movement longitudinally of said tube and longitudinally relative to said first part and to said column of temperature responsive fluid, the scale on one of said plates corresponding to specific gravity indications lighter than water and the scale on the other of said plates corresponding to specific gravity indications heavier than water, a plurality of columns of figures representing tempera-



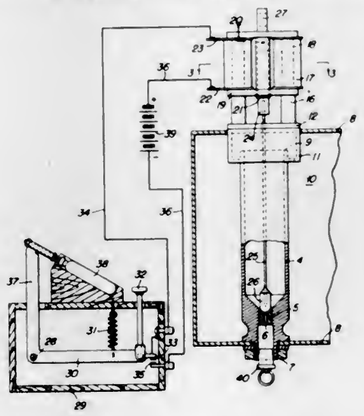
tures carried by said first part, said columns extending generally longitudinally of said tube, said scales and said columns being calibrated to give an indication corrected as to the temperature which the solution will withstand by adjusting the appropriate one of said plates to have the character on its scale corresponding to the specific gravity indication disposed opposite the top of the column of temperature responsive fluid.

2,668,441

VISCOSIMETER

Wesley M. Peterson, Davenport, Iowa

Application June 2, 1949, Serial No. 96,641
2 Claims. (Cl. 73—56)



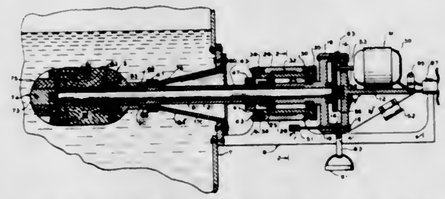
1. A viscosimeter comprising a vertical container for liquid to be tested, there being an orifice in the lower end thereof, a circular plate in the form of a ring-like part connected to the peripheral portion of the upper end of said container and having a pair of mounting posts carried by said plate, a pair of solenoids mounted in laterally spaced relation on the upper ends of said posts, elongated upper and lower pole pieces, the lower pole piece crossing the opening in said ring-like part, leaving two openings at each side of the lower pole piece, the spacing between said solenoids being sufficient to have the solenoids clear said two openings, whereby the latter are accessible from points substantially directly above, thereby readily accommodating a stirrer, a thermometer, and the like, a plunger movable vertically between said pole pieces and axially of said container and passing between said two openings, a valve rod secured at its upper end to said plunger, and a valve operatively associated with said orifice and affixed to the lower end of said rod.

2,668,442

APPARATUS FOR INDICATING AND REGULATING VISCOSITY

Alan Osbourne, Washington, D. C.

Application November 16, 1948, Serial No. 60,193
15 Claims. (Cl. 73—59)



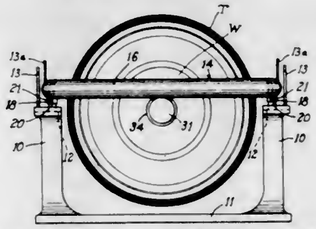
1. In a device for regulating the apparent viscosity of fluids confined in a relatively stationary container, the combination which comprises a spinner adapted to be supported within the fluid whose viscosity is to be regulated, having a driving shaft attached thereto, a constant speed motor for rotating said shaft and spinner, an oscillatable cradle mount supporting said motor and fixed to the stator thereof, and a quill surrounding said shaft and supporting the same in a freely rotatable manner, said quill being fastened to said oscillating cradle mount and extending therefrom into said spinner, whereby both spinner and quill elements extend into said fluid.

2,668,443

STATIC AND DYNAMIC WHEEL BALANCING MACHINE

Robert L. Welch, Canton, Ohio

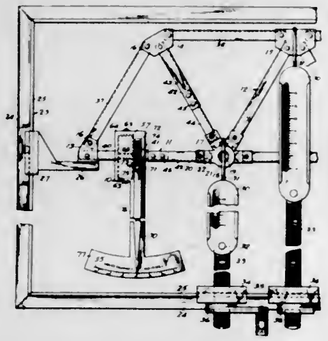
Application January 25, 1951, Serial No. 207,773
7 Claims. (Cl. 73—66)



1. A static and dynamic wheel balancing machine comprising spaced supports each having a notch in its upper surface, a substantially U-shape cradle having an elongated base portion and a relatively short leg at each end thereof, said base portion and legs of the cradle being disposed in a horizontal plane, a depending knife blade upon each leg of the cradle, said knife blades being engaged in the notches in the sup-

ports and being the only means for supporting the cradle upon the supports, an indicating hand upon each leg of the cradle, a calibrated sector upon each support cooperating with the corresponding indicating hand, a centrally located, normally horizontal shaft mounted upon the base of the cradle and perpendicular thereto said shaft being on the same side of the base portion as said legs, a freely rotatable cone upon said shaft, and means for clamping a wheel upon said freely rotatable cone, the central opening in the wheel receiving said cone.

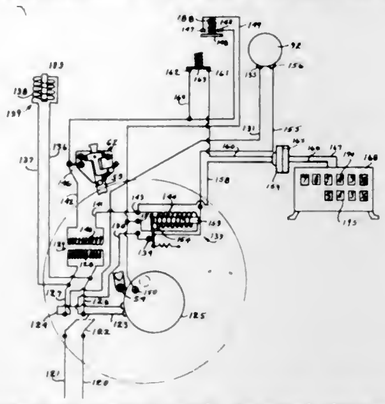
2,668,444
STRESS DETERMINING INSTRUMENT
Morris Berman, New York, N. Y.
Application March 31, 1950, Serial No. 153,279
13 Claims. (Cl. 73—88)



1. A stress determining instrument comprising a spring unit having a pair of similar parallel spaced apart flat portions each having a central opening therein and being otherwise imperforate, a spacer having a shoulder thereon secured to and between the spring portions at the mid-points thereof and tying the mid-points together for deflection as a unit in either direction, means supporting the ends only of the spring portions and holding said ends against twisting under forces applied perpendicularly to and toward and away from said flat portions, the edges of the portions being free to move under said forces, and means calibrated to correspond to and responsive to the deflection of the spring portions for indicating the deflecting force upon the spring unit.

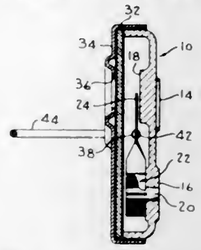
2,668,445
DEGREE-DAY REGISTERING DEVICE
Elmo D. Hidy, Cincinnati, Ohio
Application July 22, 1949, Serial No. 106,279
14 Claims. (Cl. 73—339)

8. In a degree-day register, a counting circuit having parts adapted to be put in and out of electric contact to energize said circuit, a totalizing register, means adapted to operate said register in response to energization of said circuit, degree-day detecting means which detects each degree day as it occurs by causing electrical contact between said parts, the arrangement of said circuit, parts, register, register-operating means and detecting means being such that the electrical contact between the parts must remain undisturbed for a finite time after each contact caused by detection of a degree day in order that the said degree-day be registered accurately, and means operated by the first said means when said circuit is energized to maintain energization of the first said means only for a sufficient time and independently of whether the said parts are



in contact to permit each detected degree-day to be properly registered by said register.

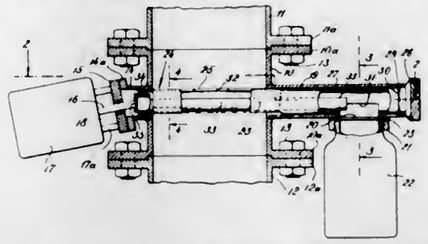
2,668,446
SURFACE TEMPERATURE MEASURING INSTRUMENT
Elmore A. Kraemer, West Bend, Wis., assignor to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin
Application July 19, 1948, Serial No. 39,409
1 Claim. (Cl. 73—367)



A surface temperature-indicating instrument comprising, a cupped casing having three feet projecting from the casing bottom to permit the casing to rest on uneven surfaces while maintaining suitable heat-conducting contact with the surface, the upper surface of the casing having indicia thereon, a slotted pin mounted in one of the feet in heat-conducting relationship and projecting upwardly from the casing, a coiled bimetallic element having one end engaging said slotted pin and the other end adapted to move with respect to said indicia in response to surface temperature changes, a cupped cover telescopically engaging said casing and retaining said bimetallic element in said slotted pin, and a bail engaging both members for retaining them in assembled position and for lifting the instrument from the hot surface, said cover having an opening therein overlying said indicia to permit observation of the indicated temperature.

2,668,447
SAMPLING APPARATUS
Herbert S. Lenhart, Allentown, Pa., assignor to Fuller Company, Catasauqua, Pa., a corporation of Delaware
Application September 28, 1951, Serial No. 248,740
4 Claims. (Cl. 73—422)

1. A device for obtaining a sample of pulverulent material, which comprises a conduit disposed generally vertically and having diametrically disposed openings in its wall, a member rigidly mounted in the openings, a member movably mounted in the openings, the members having opposed edges defining a port extending across the conduit and the movable member having a part outside the conduit operable to move said member to vary the width of the



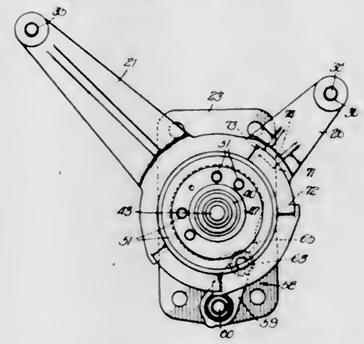
port, a receiver independent of the members mounted movably in the openings and having a discharge end outside the conduit, the receiver lying beneath the members in position to catch material passing through the port, and means attached to the other end of the receiver for reciprocating it lengthwise to advance material thereon to the discharge end thereof.

2,668,448
KNOCKDOWN SAMPLING DIPPER FOR LADLING DAIRY PRODUCTS
Harold S. Spencer, Homer, N. Y.
Application June 5, 1950, Serial No. 166,143
3 Claims. (Cl. 73—425.4)



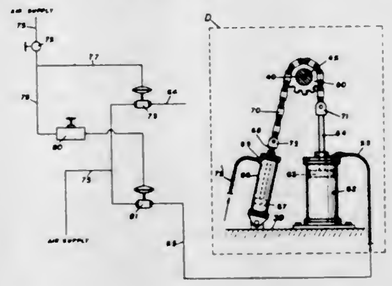
1. A sanitary knockdown milk sampling dipper having its bowl mouth disposed upwardly and comprising a tubular casing body providing for an interiorly smooth cup shape whose bottom is apertured to constitute a ported valve seat, an exteriorly disposed valve that sealingly engages said seat and is provided with a stem extending upwardly through said aperture and beyond the bowl mouth confines, a stop collar affixed to said stem contiguous to the bowl mouth level, said collar being smaller in diametral size than said seat and rendered downwardly withdrawable therethrough as a unit with said stem, and a bodily demountable snap clasp embracing the casing exterior in guiding relationship with the valve stem and engageable with said collar to limit travel of said valve away from said seat, and which clasp when demounted permits of separably and independently cleansing each dipper component.

2,668,449
SNAP-ACTING MECHANISM FOR OPENING ELECTRIC SWITCHES AND THE LIKE
William E. Dunshee, Glenview, Ill., assignor to S & C Electric Company, Chicago, Ill., a corporation of Delaware
Application February 18, 1950, Serial No. 144,955
13 Claims. (Cl. 74—97)



1. A snap acting device comprising, in combination, a rockably mounted driving member, a driven member telescoped over said driving member and freely rockable thereon about its axis of rotation in substantially the same plane in which said driving member rocks, a coil spring telescoped over said driven member and interconnecting said members, a detent on said driven member, a latch member cooperating with said detent and acting to prevent movement of said driven member, a cam on said driving member, and a cam follower on said latch member engaging said cam, said driving member being rockable through a predetermined arc to tension said spring around said driven member while said driven member is restrained by said latch member engaging said detent until said cam operates said latch member out of engagement with said detent whereupon said driven member is rocked with a snap action by said spring toward said driving member.

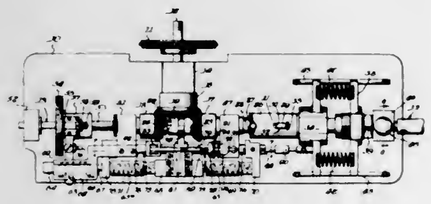
2,668,450
DEVICE FOR GIVING ANGULAR MOTION WHEN SHIFTING JAW CLUTCHES
Robert R. Crookston and Arthur L. Seljos, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application November 1, 1950, Serial No. 193,462
1 Claim. (Cl. 74—138)



A device for giving limited angular rotation to a first shaft comprising, in combination, a sec-

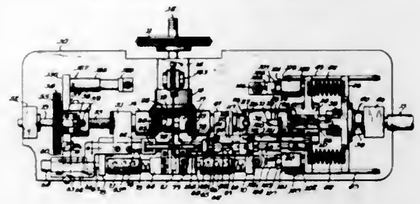
ond shaft concentric with the first shaft, a compressed air operated friction clutch releasably connecting the first and second shafts, an overriding clutch mounted on a second shaft, a sprocket mechanically connected with one element of said overriding clutch, a base member, a drive chain engaging with the teeth of the sprocket, a power unit and a return unit each having a cylinder as one element and a piston with piston rod attached thereto slidably arranged in the cylinder as another element, one element of each unit being secured to said base member and the other elements of said units being secured to opposite ends of said drive chain, the piston of said return unit being of substantially less area than the piston of said power unit, a first compressed air inlet line controlled by a first bleeder-type valve with compressed air control means connected to said compressed air operated friction clutch, a second compressed air line controlled by a second bleeder-type valve with compressed air control means to the cylinder of said power unit and a third compressed air line controlled by a third bleeder-type valve connected through a first branch to the compressed air control means of said first bleeder-type valve and through a second branch provided with a time delay unit to the compressed air control means of said second bleeder-type valve and a fourth compressed air inlet line connected to the cylinder of the return unit.

2,668,451
AUTOMATIC SHAFT REVERSER AND TORQUE GOVERNOR MACHINE
Julius A. Hjulian, Palos Heights, Ill., assignor to Crane Co., Chicago, Ill.
Application December 5, 1950, Serial No. 199,299
13 Claims. (Cl. 74—323)



1. A combination shaft reverser and torque governor machine, the combination comprising a separated shaft, a drive gear for the shaft, two oppositely disposed driven gears loosely mounted on said shaft to continuously mesh with the said drive gear, a double clutch member mounted intermediate the said driven gears, a sleeve mounted over the separated portion of the said shaft, resilient means cooperating with the said sleeve and connected to the said shaft to normally maintain the same in rotative relation, a cam surface on the said sleeve, a cam follower attached to the said shaft to effect axial displacement of the said sleeve, a slidable actuator member connected to the said clutch, a plurality of springs mounted to separately act on the said actuator member to move the same, means actuated by rotation of the said shaft to load the said springs, catch means to secure the said springs and be operable with predetermined rotation of the said shaft, and trigger means extending from the said sleeve to the said resilient means to release the catch means upon axial movement of the said sleeve.

2,668,452
REVERSING MECHANISM
Julius A. Hjulian, Palos Heights, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application December 17, 1952, Serial No. 326,382
10 Claims. (Cl. 74—323)

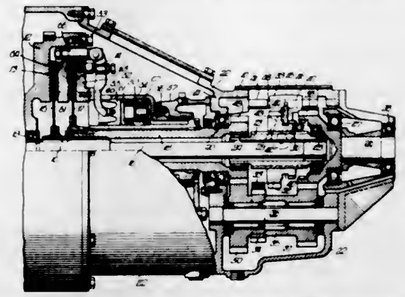


1. A combination shaft reverser and torque limiter machine comprising axially aligned shaft sections, a pair of spaced members mounted on one of said shaft sections for rotational movement relative thereto, means for effecting opposite rotation of said spaced members, shiftable means mounted on said shaft section intermediate said spaced members for rotation with said shaft section and having alternate engagement with each of said spaced members whereby said shaft section may be driven in opposite directions, means connecting said shaft section with a second shaft section for providing substantial unitary rotation of the two sections, said means including abutment means on said first shaft section and an axially movable member rotatively secured to said second shaft section and normally in abutting driving relation with said abutment means, means for yieldingly holding said axially movable member in said abutting relation, said holding means including a member which is reciprocally mounted on said second shaft section, said abutting means and axially movable member being adapted to engage each other upon application of a predetermined resisting torque to said second shaft section so as to axially displace said movable member and also the reciprocally mounted member of said holding means, means cooperating with said reciprocally mounted member for cushioning the return of the same to its original position and of said axially movable member to its normal driving relation with said abutting means after withdrawal of said resisting torque, spring loaded actuator means for shifting said shiftable means alternately to the extreme positions and in driving engagement with said spaced members, means cooperating with said first shaft section and operable by rotation thereof for actuation of said actuator means in one direction, and means cooperating with the reciprocally mounted member of said holding means and operable by said axial displacement thereof for movement of said actuator means in the opposite direction for opposite rotation of the shaft sections.

2,668,453
TRANSMISSION
Oscar H. Banker, Evanston, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware
Application October 5, 1950, Serial No. 188,631
10 Claims. (Cl. 74—330)

1. In a multiple speed transmission, two concentrically arranged driving shafts, selectively controlled means for driving one or the other of the driving shafts, a driven shaft positioned in axial alignment with the driving shafts, means for selectively connecting one of the driving

shafts for selectively connecting the same to the driven shaft either directly or in reverse, and means for connecting the other driving shaft to the driven shaft under a reduction, said first



named means comprising a sleeve secured to and surrounding the inner driving shaft and journaled at axially spaced points by the outer driving shaft and driven shaft respectively.

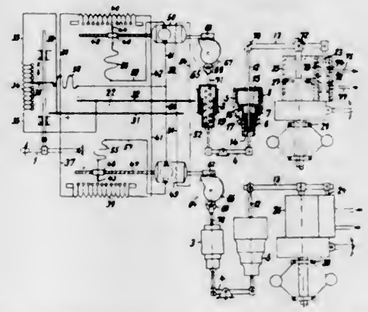
2,668,454
MOUNTING FOR SPROCKETS, PINIONS, OR THE LIKE
Martin T. Schumb, Milton, Mass., assignor to Boston Gear Works—Division The Murray Company of Texas, Inc., North Quincy, Mass., a corporation of Delaware
Application October 22, 1952, Serial No. 316,143
7 Claims. (Cl. 74—432)



1. In combination with a tapered, split bushing designed to be fixed to a shaft, a unit comprising two coaxial, radial flanges spaced apart and integrally joined to the opposite ends of a hub, said flanges being spaced apart a distance not substantially exceeding the axial thickness of either flange, one of said flanges being toothed to constitute a sprocket or pinion, the unit having a tapered axial bore whose smaller end is adjacent to the toothed flange and whose diameter, at its smaller end, is such that the thickness of the metal intervening between the roots of the teeth and the wall of the bore does not substantially exceed the root-to-tip height of a tooth, the bushing fitting within the axial bore of said unit and having an integral radial flange which is opposed to the outer face of the untoothed flange of said unit, and means, comprising a plurality of independent bolts, for moving said latter flanges toward or from each other.

2,668,455
REMOTE CONTROL MECHANISM, ESPECIALLY FOR VEHICLES WITH FLUID DRIVE
Heinrich Herrmann, Kettwig, Germany, assignor to Fried. Krupp Lokomotivfabrik, Essen, Germany
Application November 6, 1950, Serial No. 194,305
Claims priority, application Germany November 23, 1949
11 Claims. (Cl. 74—501)

1. A remote control arrangement comprising in combination; a control member to be moved into a plurality of precisely located positions, an abutment, a plurality of springs pre-tensioned to different initial thrusts arranged in series between said control member and said abutment, floating abutments interposed between said springs adapted for abutting as the springs therebetween are fully deformed, the pre-tension on each of the said springs being such that each of the said springs will be fully deformed before the next strongest of the said springs commences to deform, an adjustable member movable into a plurality of positions corresponding to the plurality of positions for the said control member,



but each movement of the adjustable member from one position thereof to the next including a predetermined amount of overtravel beyond that required for moving the control member between its corresponding positions, and means connecting the adjustable member with the control member comprising a resilient element, said resilient element having a modulus such that it will deform between the thrust that will completely deform one of the springs associated with the control member and the thrust that will commence deformation of the next of said springs sufficiently to absorb the overtravel of said adjustable member.

2,668,456
SWITCH OPERATOR FOR CHILDREN
John V. Meistrell, Manhattan Beach, Calif.
Application May 7, 1951, Serial No. 224,929
4 Claims. (Cl. 74—503)



4. A switch operator for local and remote operation and adapted for mounting as an accessory to an electrical switch having an exposed control toggle pivotally movable between upper and lower switch operating po-

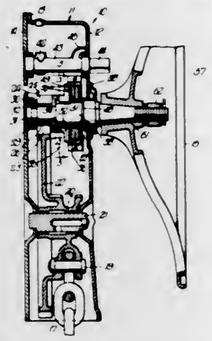
sitions, said operator comprising: a housing formed with fastening holes adapted to receive screws for connection to said switch in place of a cover plate, and having an elongated portion extending downwardly therefrom, the upper portion of said housing being shaped as a cover plate spaced outwardly from said switch by edge flanges and having a central aperture therein to expose said control toggle for local manual operation, said elongated portion having edge flanges bearing rigidly against a supporting wall surface and defining a rear passageway extending longitudinally therethrough; spacer bosses extended rearwardly from said cover plate adjacent said fastening holes for engagement with said switch to limit the take-up of the fastening screws; a lower station plate joined to said elongated portion and spaced outwardly by edge flanges, said plate having a central aperture therein; bearing supports extending rearwardly from said station plate adjacent said central aperture; a control lever pivotally connected to said bearing supports and extending through said aperture for limited vertical movement, said lever having a relatively short rear crank arm extending rearwardly of the pivot axis whereby to facilitate movement of said lever by a small child; and a linking member mounted for vertical movement in said passageway and rotatably connected at the lower end to said crank arm, the upper end of said member being slotted and engaged with said control toggle for moving the latter in response to movement of said control handle, said operator being further characterized by the use of a nonconducting plastic material for all of said aforementioned elements whereby said switch is effectively insulated from said control lever.

2,668,457

HAND BRAKE FOR RAILWAY CARS

Frank E. Bretz, Jr., Oak Park, Ill., assignor to Ajax-Consolidated Company, Chicago, Ill., a corporation of Illinois

Application August 5, 1950, Serial No. 177,804
8 Claims. (Cl. 74—505)



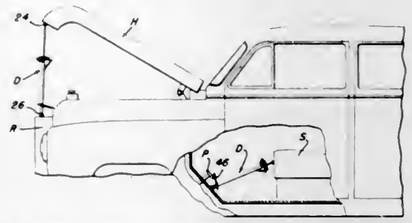
1. In a hand brake mechanism, the combination with a rotary chain winding drum and a main gear wheel of: a rotatable hand wheel shaft, a hand wheel fast on said hand wheel shaft, a pinion rotatably and non-slidably mounted on said hand wheel shaft and engaging said gear wheel, a clutch plate rotatably mounted on said hand wheel shaft, means on said hand wheel shaft preventing movement of said clutch plate away from said pinion, means cooperating with said clutch plate and preventing rotation thereof in a brake releasing direction, a cam plate non-rotatably and slidably mounted on said hand wheel shaft between said pinion and said clutch plate and arranged to have frictional driving connection with the latter, and cooperating inclined plane means carried respectively by said pinion and said cam plate for moving the latter toward and into positive driving connection with said clutch plate when said manually rotatable means is rotated in one direction to apply the brakes and allowing said cam plate to move away from and out of positive driving connection with said clutch plate when said manually rotatable means is rotated in the opposite direction to release the brakes.

2,668,458

PEDAL EXTENSION

Linus E. Russell, Springfield, Ohio, assignor to Peters & Russell, Inc., Springfield, Ohio, a corporation of Ohio

Application March 2, 1951, Serial No. 213,554
11 Claims. (Cl. 74—562.5)



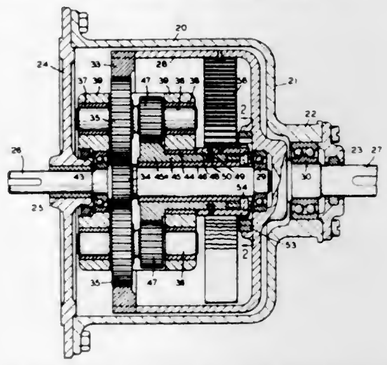
1. A side extension for installation on foot pedals, including a rectangular plate longer and wider than the pedal to which it is applicable and having upturned edges, said plate being engageable with and receiving the foot pedal on one side thereof, another and similarly formed plate engaging and receiving the foot pedal on the opposite side thereof and at the same time receiving the edges of the first said plate whereby said plates cooperate to define a case enclosing the pedal, and fastening devices adjustable to hold the case in assembled relation and in frictional contact with the pedal.

2,668,459

POWER LOAD EQUALIZER

Emil Berklege, Cleveland Heights, Ohio

Application November 29, 1949, Serial No. 129,992
18 Claims. (Cl. 74—751)



1. Power transmission means of the character described comprising axially aligned driving and driven shafts, a sun gear fixed on said driving shaft, a ring gear fixed with respect to said driven shaft and outwardly from said sun gear

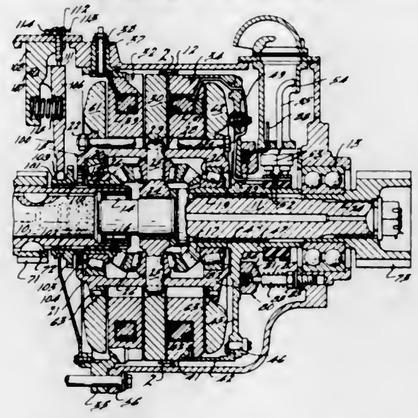
and in the plane thereof, a plurality of planet gears surrounding said sun gear and in mesh therewith and with said ring gear, and spiral spring means the outer end thereof being fixed with relation to said ring gear, means for operatively linking the inner end of said spring with said sun gear, and said spring being disposed towards coiling motion during preliminary application of driving torque to the driving shaft.

2,668,460

POWER TRANSMISSION UNIT

John P. Butterfield, Grosse Pointe Woods, and Henry W. Gilfillan, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application March 2, 1951, Serial No. 213,522
6 Claims. (Cl. 74—780)



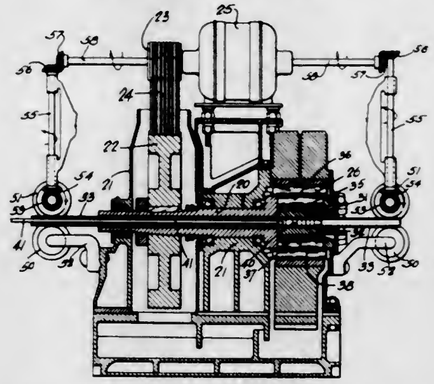
1. In a transmission comprising a housing journalling a pair of axially aligned driving and driven shafts, a differential gear set connected between said shafts comprising a carrier case extending between and rotatably mounted on said shafts, a side gear drivingly mounted on each of said driving and driven shafts, said side gears being arranged in spaced apart, opposed relationship within said carrier case, pinion gearing journalled in said carrier case and arranged to extend between and meshingly engage said side gears, a ring-like armature encircling and drivingly connected to and axially shiftably mounted on said carrier case, an annular electromagnetic brake element fixed to said housing and encircling said case and arranged adjacent a side surface of said armature, energization of said brake element being effective to anchor said armature member and said carrier case to said housing to provide means for the drive of said driven shaft in a direction opposite to that of said driving shaft, an annular electromagnetic clutch element carried by said driven shaft and encircling said case and arranged adjacent another side surface of said armature, energization of said clutch element being effective to drivingly connect said carrier case and said driven shaft to provide means for the drive of said driven shaft in the same direction as said driving shaft, said aforementioned armature and associated clutch and brake elements being arranged concentrically about said carrier case, a second electromagnetic brake element fixed to said housing having portions arranged adjacent to and adapted to be engaged with portions of said driven shaft on energization of said second brake element to anchor said driven shaft against rotation in either direction, and a control circuit for said electromagnetic clutch and brake elements whereby said second electromagnetic brake element is automatically energized upon deenergization of both said first brake element and said clutch element.

2,668,461

TUBE FINISHING MACHINE

Thomas J. Henderson, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application July 28, 1950, Serial No. 176,402
1 Claim. (Cl. 78—103)



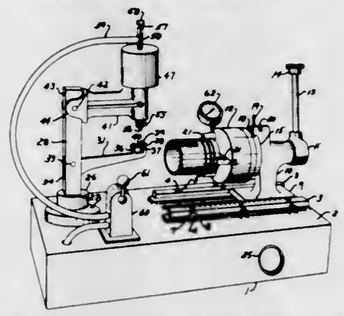
A burnishing mandrel consisting of a solid shaft, circular in cross-section and tapered at one end, said mandrel having alternate portions of a predetermined outside diameter and intermediate portions of a diameter predeterminately less than said alternate portions, the length of said alternate and intermediate portions progressively increasing predeterminately, starting from the portion adjacent the tapered end of the mandrel, the juncture of each of said portions presenting a substantially right angled shoulder forming a sharp annular edge at each end of said annular portion.

2,668,462

PISTON RECONDITIONING DEVICE

Earl W. Tillis, Elkhart, Ind.

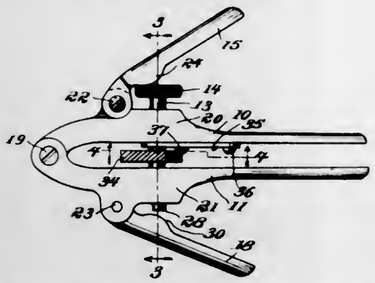
Application January 28, 1952, Serial No. 268,624
8 Claims. (Cl. 80—5.1)



1. In a piston reconditioning device, in combination, a base, an upright post mounted on said base for free vertical movement, a knurling roller and a backing roller located one above the other and both carried by said posts, means mounted on said base for supporting a piston with a por-

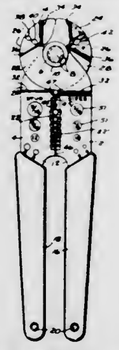
tion of its skirt extending between said knurling roller and said backing roller, and pneumatic means for causing said knurling roller and said backing roller to squeeze the portion of such skirt that extends between said knurling roller and said backing roller.

2,668,463
PIANO FLANGE REAMER AND REPINNING TOOL
Charles B. Archer, Homestead Park, Pa.
Application November 12, 1952, Serial No. 319,886
6 Claims. (Cl. 81—5.1)



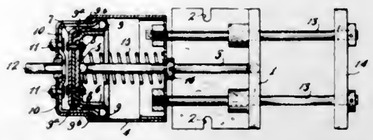
1. A piano action repair tool comprising a pair of handles pivotally connected at one of the ends thereof, a hand lever pivotally mounted on each of said handles, each of said handles having an opening therethrough and the opening of one handle being aligned with the opening of the other handle, and a reamer slidably mounted in the opening of one handle and positioned to be actuated by the hand lever pivotally mounted on said handle, a plunger slidably mounted in the opening of the other handle and positioned to be actuated by the hand lever pivotally mounted on said other handle to press a pin of a piano action flange positioned between said handles into said flange.

2,668,464
WIRE CUTTING AND STRIPPING TOOL
Lemon B. Paules, Harrisburg, Pa., assignor to Aircraft-Marine Products Inc., Harrisburg, Pa., a corporation of New Jersey
Original application July 28, 1945, Serial No. 607,573. Divided and this application August 2, 1949, Serial No. 108,157
5 Claims. (Cl. 81—9.5)



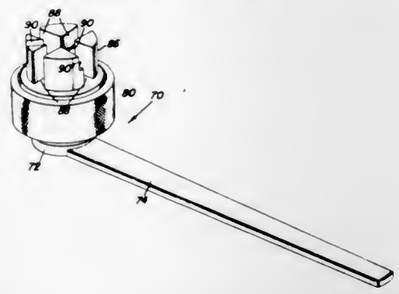
1. A cutting tool which comprises pivotally connected operating means, cooperating cutting members, at least one of which is provided with a sharp edge, connected to said levers for movement therewith into edge abutting relation to the cooperating cutting member, stop means between said cutting members and the pivotal connection of said operating means to limit inertial and accidental movements of said cutting members short of said abutting relation, but at least one of said operating means being resiliently yieldable under full operating force to bring said cutting members into edge-cutting relation.

2,668,465
PNEUMATIC VISE HAVING FIXED JAW LOCATED BETWEEN MOVABLE CYLINDER AND MOVABLE JAW
Roy I. Kaufman, Marion, Ohio, assignor to R. I. K., Incorporated, Marion, Ohio, a corporation of Ohio
Application July 24, 1952, Serial No. 300,589
6 Claims. (Cl. 81—17.2)



1. A vise comprising fixed and movable jaws having co-operating clamping faces, means connected at its one end to said movable jaw and extending through said fixed jaw for supporting and guiding said movable jaw in straight-line movement, a reciprocable fluid pressure chamber mounted upon the other end of said supporting and guiding means for effecting movement thereof, a flexible diaphragm extending transversely within said chamber and having its outer edge anchored hermetically to the wall thereof, a rod extending axially through said chamber and hermetically connected at its one end to the central part of said diaphragm and connected at its other end to said fixed jaw, means for supporting said fixed jaw, and means for effecting movement of said chamber back and forth including means for supplying fluid pressure to the interior thereof and upon the opposite side of said diaphragm from said fixed jaw for effecting longitudinal movement of said chamber in one direction along said rod and for thereby effecting closing movement of said movable jaw therewith.

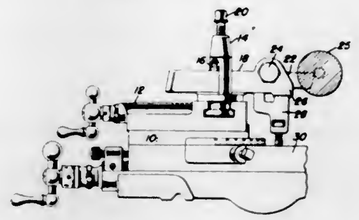
2,668,466
SINK STRAINER WRENCH WITH WORK ENGAGING NUT
Frank E. Schofield, Portland, Oreg.
Application October 3, 1952, Serial No. 312,883
1 Claim. (Cl. 81—90)



A wrench comprising a substantially cylindrical body provided at one end portion thereof with an annular groove, an out-turned annular flange

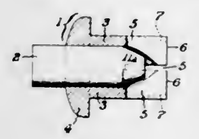
provided at the other end of said body, a work engaging head provided on the end of the body adjacent said flange, a snap ring positioned in said groove, a work engaging nut rotatable and slidable on said body, said nut having a flanged end portion located between said snap ring and said annular flange, and a laterally projecting handle secured to the end of said body adjacent said snap ring.

2,668,467
LATHE TOOL JACK
Harry C. Paine, California, Pa.
Application October 27, 1950, Serial No. 192,448
1 Claim. (Cl. 82—36)



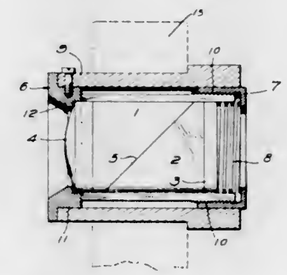
A lathe tool holder jack comprising, a vertical magnetized bar engageable beneath the outer end portion of the holder and including a seat on its upper end for the reception of said holder, said bar having a vertical bore therein and further having a transverse recess therethrough intersecting the bore, a nut mounted in the recess, a screw threadedly mounted for vertical adjustment in the nut and operable in the bore, said screw being engageable with the lathe for raising and lowering the bar, and an angular arm integral with the bar and engageable beneath the holder at a point in spaced relation to said bar.

2,668,468
RIVET
Howard A. Flogaus, Wallingford, Pa., assignor to South Chester Corporation, Chester, Pa., a corporation of Delaware
Application July 7, 1951, Serial No. 235,612
1 Claim. (Cl. 85—40)



In combination in a tubular metallic rivet, a substantially cylindrical shank portion, a head integrally formed at one end thereof, a cylindrical bore extending through said head portion and terminating at a point substantially beyond said head portion but short of the distal end of said shank, a plurality of expansible prongs formed at the distal end of said shank and extending at least to the distal end of said bore, a concave cavity having transverse circular sections throughout and having axial sections extending tangentially from the cylindrical bore through a slow curve terminating substantially short of the distal end of said prongs, a metallic spreader pin having a cylindrical portion substantially as long as the length of said cylindrical bore plus the length of said cavity, inner surfaces on said prongs comprising cam means whereby said prongs are expanded so that the cam surfaces will engage said pin with surface contact throughout the length of the cylindrical portion of the pin from the distal end of the bore to the distal end of the cylindrical portion of the pin.

2,668,469
MOUNTING MEANS FOR MULTICOMPONENT OPTICAL ASSEMBLIES
Joseph W. Gabel, Sugar Grove, Ohio, assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application April 7, 1952, Serial No. 280,882
5 Claims. (Cl. 88—1)

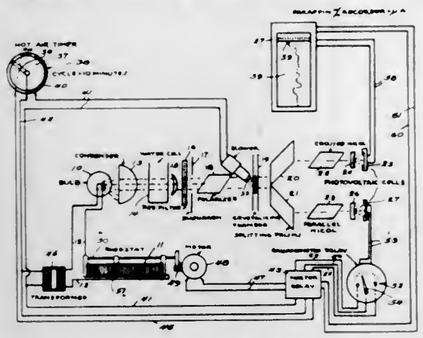


1. A multi-component optical assembly comprising in combination a mounting case having bearing surface means at one end, a light-transmitting multi-component optical element mounted in said case, the element being composed of a plurality of individual elements having at least one interface between element surfaces at an angle to the axis of the multi-component element less than a right angle and sufficiently axially unsymmetrical so that axial pressure results in a radial pressure component on the individual elements, means for radially confining the elements in the case, the interface being a microscopically thin film of an inert liquid which remains permanently liquid and is only thick enough to produce true optical contact across the interface, said liquid being light-transmitting and contributing negligible mechanical strength to the elements joined at the interfaces, and spring pressed retaining elements connected to the casing at the end opposite the bearing surface means and positioned to exert axial pressure on the multi-component optical element whereby axial contact of the elements and the microscopic film of liquid is maintained regardless of expansion and contraction of the case.

2,668,470
METHOD AND APPARATUS FOR ELECTRO-OPTICAL ANALYSIS OF THE CRYSTALLINE CONTENT OF LIQUIDS
Karl A. Fischer, Washington, D. C.
Application May 13, 1948, Serial No. 26,909
7 Claims. (Cl. 88—14)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A method of measuring the crystalline content of a liquid comprising forming a mass of the liquid and freezing the mass to solidify it, transmitting a beam of light through the solidified mass while gradually increasing the intensity of the light beam, dividing the light beam after it

has passed through the solidified mass, and directing the divided light beam upon separate light



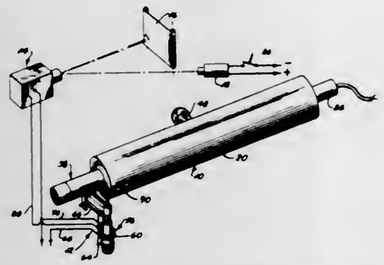
sensitive devices to energize electrical recording means.

2,668,471

CONTINUOUS RECORD OF INTERFEROMETRIC GAS ANALYSIS

Theodor Hannes Benzinger, Rockville, and Charlotte Kitzinger, Bethesda, Md.

Application September 3, 1952, Serial No. 307,731
3 Claims. (Cl. 88—14)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In an assembly for continuous recordation of gas analysis, said assembly including an interferometer provided with means for producing a comparative spectrum, means responsive to the refraction of the gas being tested for producing a movable spectrum, and means for moving the latter spectrum relative to the comparative spectrum; the improvement comprising a screw arranged to actuate said moving means, a recording device, and means operatively connected with said screw for marking on said recording device in response to the position of said screw.

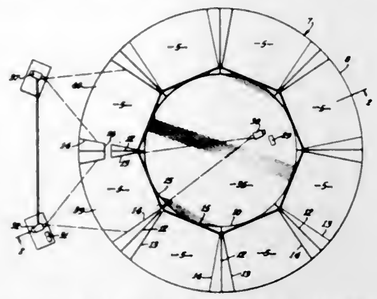
2,668,472

MOVABLE STAGE CONSTRUCTION AND PHOTOGRAPHING SYSTEM

John T. Lierley, Los Angeles, Calif.

Application September 15, 1949, Serial No. 115,845
7 Claims. (Cl. 88—16)

1. A stage set construction for obtaining a photograph of a moving object with a camera in a fixed position, comprising a photographing camera in a fixed position, a ring-shaped platform having at least one set thereon with action moving across said set, said camera being positioned beyond the outer circumference of said ring-shaped platform, said set having substantially parallel side walls, means for moving said set during movement of said action to maintain said action in photographing position in front of said camera, means for manually starting the movement of said set, and mechanical means



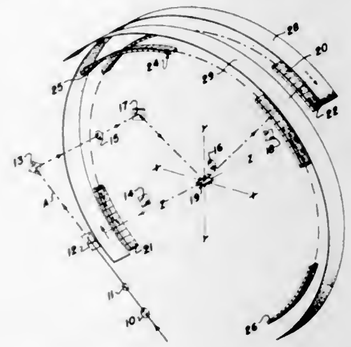
under control of said moving set for stopping the movement of said set.

2,668,473

CONTINUOUS RECORDING HIGH SPEED FRAME CAMERA

Berlyn Brixner, Los Alamos, N. Mex., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application January 7, 1953, Serial No. 330,131
4 Claims. (Cl. 88—16)



1. In a device for taking high speed photographs, rotating means for reflecting light beams comprising a thin, two-faced rotating optical mirror; means for transmitting light from the object to be photographed to focus and form two stationary images in space substantially at the reflecting surface of said rotating reflecting means and from different angular positions with respect to the rotation of the reflecting means, comprising a primary image forming means, a means for dividing the primary light beam into two identical beams, and a dual optical system for relaying and focusing the two beams; means for receiving and refocusing the two reflected light beams at various angular positions to form a series of stationary discrete images displaced from each other in time and in position on two photosensitive film strips.

2,668,474

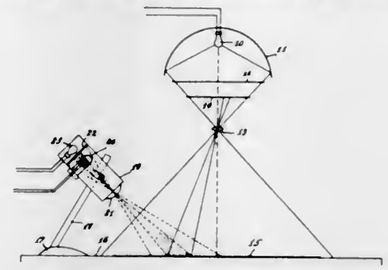
PHOTOGRAPHIC PRINTING APPARATUS

Elwood C. Rogers, Jr., Indianapolis, Ind.

Application March 28, 1949, Serial No. 83,897
2 Claims. (Cl. 88—24)

1. In an automatic apparatus for timing an exposure in photo-enlarging, a light-responsive

element positionable to receive light reflected at a predetermined angle from a selected portion only of the sensitized surface being exposed, automatic means controlled by said element for terminating the exposure, a lens for concentrating on the light-responsive element light reflected



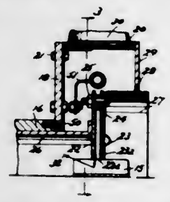
from the selected portion of the sensitized surface, and a translucent screen positioned on the opposite side of said light-responsive element in position to receive in superposed relation an image of the selected portion of the sensitized surface and the shadow of the light-responsive element.

2,668,475

OPTICAL APPARATUS FOR INSPECTING THE CONTOUR OF ARTICLES

Jack Walker and Pennock Leng, Coventry, England, assignors to Armstrong Siddeley Motors Limited, Coventry, England

Application December 10, 1951, Serial No. 260,786
3 Claims. (Cl. 88—24)



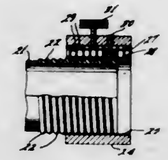
1. An optical apparatus for inspecting the contour of an article, which has a matt surface, by light diffusedly reflected from the article through a projector on to a screen, comprising a casing having at one side an opening; a frame tube fast with said casing and concentrically disposed about said opening, said frame tube adapted for connection to the projector; a pair of spaced parallel opaque plates within said casing, said plates having registering central holes for the reception axially therein of the article to be examined and in alignment with said frame tube, one of said plates having a tube concentrically about its hole, said plate tube slidably guided within said frame tube, whereby said plates can be axially adjusted within said casing, the other of said plates having an axial peripheral flange extending through an opening in the opposite side of said casing; a ring of high pressure discharge lamps fixedly mounted in said casing and arranged for their arcs to be co-planar and disposed about the plates such that the plane of said arcs is coincident with the central plane of the space between said plates for obtaining a localised plane of illumination about the article to be examined, whilst said plate tube and said flange screen the article from all light except that passing between said plates; and means for supporting said article to be within the holes of said plates.

2,668,476

ADJUSTABLE LENS UNIT MOUNT

Warren R. Isom, West Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 28, 1952, Serial No. 290,443
6 Claims. (Cl. 88—57)



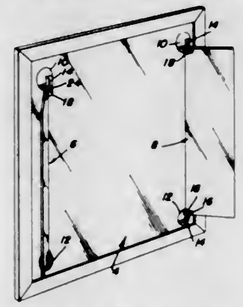
1. An adjustable lens unit mount comprising a housing having a longitudinal bore therein, a lens unit adapted to be moved longitudinally in said bore by threads on a cylindrical portion thereof, said housing having a second cylindrical bore therein parallel to said first bore and longitudinally intersecting said first mentioned bore, a rod having a series of circumferential grooves having the same pitch as said threads in said second bore, said rod being movable perpendicularly to its axis in said bore, means for preventing longitudinal movement of said rod, and means for applying pressure to said rod to provide a locking force between said rod and said unit by contact between said grooves and a plurality of said threads.

2,668,477

MAIN AND AUXILIARY MIRROR ASSEMBLY

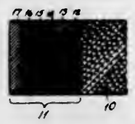
Cleo Shaikun, Louisville, Ky.

Application October 11, 1951, Serial No. 250,825
2 Claims. (Cl. 88—91)



1. In combination, a stationary mirror having a flat reflecting face, said mirror having the additional function of a supporting base, a second mirror complemental to said first mirror, said second mirror being of an area appreciably less than the area of said first mirror, and means hingedly and detachably mounting one marginal edge portion of said second mirror directly on the reflecting face of the first mirror within the marginal limits of the latter mirror, said means embodying upper and lower vacuum cups detachably mounted on said reflecting face, within the stated marginal limits of said reflecting face, and pintles mounted on the respective upper and lower ends of said second mirror and having end portions assembled in the respective vacuum cups, said pintles being disposed in close spaced parallelism in respect to said reflecting surface and the stated one marginal edge portion of said second mirror being consequently disposed in close spaced parallelism to said reflecting surface.

2,668,478
HEAT PROTECTION FILTER
Hubert Schröder, Munich, Germany, assignor to Fish-Schurman Corporation, New York, N. Y., a corporation of New York
Application December 14, 1949, Serial No. 132,875
5 Claims. (Cl. 88—109)



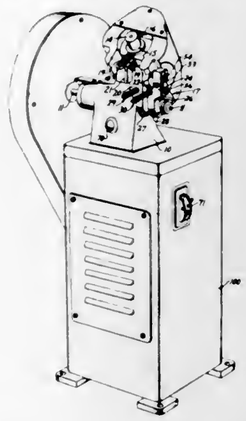
1. A color free, heat protection filter having high reflection in the infra-red region and substantially complete transparency in the visible part of the spectral range of the radiation source, comprising a transparent supporting body and a transparent infra-red reflector consisting of a plurality of layers superimposed on at least one of the surfaces of said supporting body, alternate layers of said reflector being of material having a high index of refraction and the remaining layers of said reflector having a low index of refraction, a layer of high index of refraction being adjacent to said supporting body, each of the layers of said reflector located between the supporting body and the outer layer of said reflector adjacent to the outer medium being constituted of non-metallic material of negligible absorption, the optical thickness of the layers of one refractive index located between the supporting body and the outer layer differing from the optical thickness of the layers of the other refractive index located between the supporting body and the outer layer by a predetermined amount not exceeding 20%, and the optical thickness of each of such layers of the other refractive index being about one-quarter of the wave length of the maximum emitted heat radiation of the radiation source and about one-half of the wave length of the medium wave length of the visible spectral range to be transmitted, the outer layer of said reflector having an index of refraction between the indexes of refraction of the layer immediately next to such outer layer and the outer medium, and having an optical thickness of about one-quarter of the medium wave length of the visible spectral range to be transmitted.

2,668,479
COMPENSATOR FOR SHOTGUNS
Gerald R. Batten, Chicago, Ill.
Application August 22, 1950, Serial No. 180,846
1 Claim. (Cl. 89—14)



A compensating device for attachment to the muzzle of a shotgun comprising an outer tubular member having a constant outer diameter throughout its length and a constant inner diameter except for a distance at each end thereof, a pair of oppositely disposed circumferentially spaced slots in said tubular member adjacent the end thereof which is to be positioned away from the muzzle, and a single inner tubular member within the outer tubular member and having threaded engagement therewith and providing an annular space therebetween, the inner diameter of the inner tubular member being greater than the diameter of the bore of the gun barrel at the muzzle, an annular flange around the outside of said inner tubular member adjacent the outer end thereof, said inner tubular member having its inner end flared adjacent the barrel muzzle, a plurality of axially spaced and circumferentially extending slots through said inner tubular member greater in number than the slots in the outer tubular member, and the extreme inner end of said inner tubular member positioned to terminate closely adjacent the end of the muzzle when said outer tubular member is mounted on said muzzle, said flange abutting the outer end of the said outer tubular member, said annular space between the inner and outer tubular members being unrestricted between said flange and the inner end of said inner member.

2,668,480
METHOD AND MEANS FOR BURRING OR CHAMFERING GEARS
John M. Christman, Grosse Pointe Woods, Mich.
Application January 7, 1950, Serial No. 137,420
40 Claims. (Cl. 90—1.4)



31. The method of chamfering end edges of a tooth of a circular toothed element, said method comprising substantially simultaneous application of a cutter to at least two tooth edges actually meeting at a vertex to form an angle therebetween, with said cutter having configuration of its cutting edges corresponding to that of the tooth edges to be chamfered with said cutting edges also meeting to form an apex, and moving said cutter to have the apex thereof move in the process of cutting along a substantially straight line passing through the vertex of the angle formed by said tooth edges and with said line being separated by at least one full intervening tooth from a plane parallel to said line with said plane passing through the axis of the toothed element.

35. In a machine for chamfering end edges of the teeth of gears, said machine comprising fixture means adapted to receive the gear and to locate it both radially and axially, a cutter having a cutting lip adapted in its outline to the outline of at least two meeting edges of one tooth, and means to reciprocate said cutter to produce cutting strokes along a line lying in a plane that substantially bisects the angle formed by said meeting tooth edges, with said plane spaced from a radial line parallel to it by a distance equal to at least one circular pitch of the gear, and means to rotate said gear intermittently to present new teeth to the action of said cutter to chamfer successively all of the teeth of the gear.

36. The method of chamfering end edges of the teeth of circular toothed elements having teeth spaced along the circumference of the element, said method including the steps of supporting said toothed element at a stop at the face to be chamfered, and applying a chamfering cutter to the toothed element to chamfer the end edges of two spaced teeth thereof, with said cutter being applied in the process of cutting at such an angle with respect to the toothed element that the face thereof to be chamfered is urged against said stop.

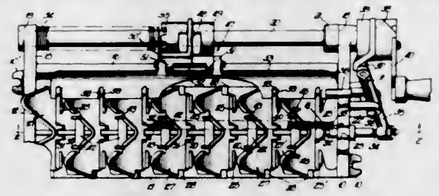
2,668,481
MACHINE FOR MANUFACTURING VALVE BAGS
Paul C. Robinson, Canajoharie, N. Y., assignor to Arkell and Smiths, Canajoharie, N. Y., a corporation of New York
Application October 29, 1948, Serial No. 57,188
4 Claims. (Cl. 93—8)



1. In a machine for forming a sleeve valve bag of the class described, which comprises means for feeding gusseted bag tubes longitudinally one behind the other, each bag tube having a valve extension on the advancing end thereof and said end of the bag tube being spread and flattened to provide side flaps and end flaps overlying the side flaps, one of the side flaps being folded against the side of the body of the tube, a folder for causing the valve extension of each bag to be folded back upon the adjacent end flap as the bag reaches a predetermined point in its travel, devices for adhesively securing the inner end of a sleeve patch to the upwardly directed side of the folded valve extension as each bag tube reaches another predetermined point in its travel, folding means for returning said valve extension to its unfolded condition and folding said patch outwardly over the inner edge of said valve extension during the continued travel of each bag, means for restoring said side flaps to their initial closed position comprising a member traveling in the same direction but at increased speed with said bag tube engaging the underside of said folded side flap and riding over said side flap to fold it against the other side flap, and an oscillating arm for engaging the top side of said valve extension at the base of said folded side flap to cooperate with said member in restoring said side flaps to their initial closed position.

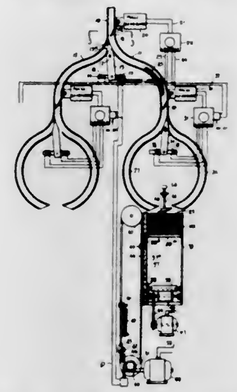
2,668,482
EGG CARTON SET-UP DEVICE
Martin Burger, Morris, Ill., assignor to General Package Corporation, a corporation of Delaware
Application May 23, 1950, Serial No. 163,608
18 Claims. (Cl. 93—37)

1. Apparatus for erecting partition-type egg cartons, comprising members adapted to engage and actuate the cross partitions of a carton from a position generally paralleling the wall and bottom panels thereof to a position transverse of said panels, means to deflect certain locking tabs of said cross partitions from a position in the plane thereof to an angular relation thereto,



and means to operate said members and tab deflecting means in timed relation to one another.

2,668,483
STACKING DEVICE
Thomas R. Sykes, Toronto, Ontario, Canada, assignor to The Toronto Star Limited, Toronto, Ontario, Canada, a corporation of Ontario
Application January 11, 1951, Serial No. 205,457
7 Claims. (Cl. 93—93)

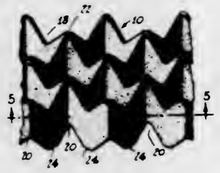


1. A device for stacking newspapers and the like, comprising a pair of supports, a pair of main chutes having adjacent entrances, newspaper directing means comprising a primary diverter movable at the entrances to direct newspapers selectively into each main chute, each main chute having a pair of branch chutes diverging at their upper ends from the main chute and converging at their lower ends towards a support so that they approach the support from substantially opposite directions for delivering newspapers to the support, a secondary diverter for each pair of branch chutes, and unloading means coupled to the newspaper directing means and actuated thereby to remove the newspapers from one support while newspapers are being directed onto the other support.

2,668,484
GRATING
Leopold Bustin, Mamaroneck, N. Y.
Application December 18, 1950, Serial No. 201,354
2 Claims. (Cl. 94—5)

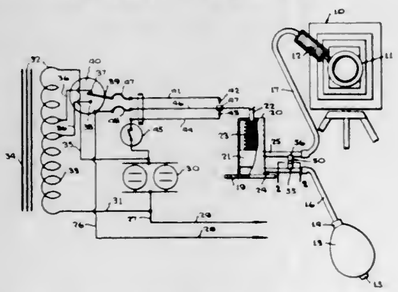
2. A grating comprising a plurality of vertically disposed bars each bent transversely at spaced intervals in alternately opposite directions along vertical bend lines, adjacent bars being connected along their vertical bend lines to form a grating, each of said bars having a V-shaped notch along its upper edge extending from one bend line to the next to form anti-slip points between successive notches at the line of connec-

tion, and V-shaped notches along the lower edge of each of said bars, the edges of said lower notches being substantially parallel to the edges



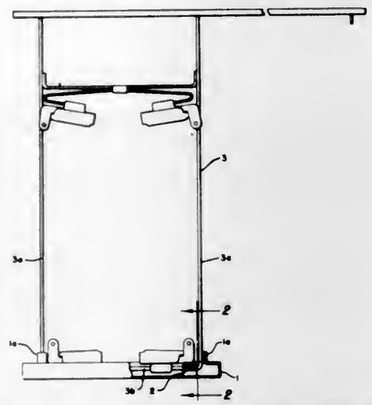
of the upper notches whereby the lower notches are staggered with respect thereto, with the apex of the lower notches coinciding with the bend lines.

2,668,485
SYNCHRONIZED LIGHT AND CAMERA SHUTTER SYSTEM
Taz D. Hobbs, Alvin, Tex.
Application November 9, 1951, Serial No. 255,579
4 Claims. (Cl. 95—11.5)



1. In a synchronized light source and shutter operating system for a camera, a shutter operating device adapted to be operatively connected to a camera shutter, pneumatic means including a bulb, conduit means operatively connecting said bulb to said device for operating said device whenever the bulb is compressed, a pneumatic switch operator including a cylinder, a piston working in the cylinder, means acting between the cylinder and the piston and urging the piston toward an initial position, said conduit means being effectively connected in communication with the interior of said cylinder and including a first conduit occluded by said piston in its initial position, a lamp unit, a lamp unit controlling switch including an arm and a pair of contacts at opposite sides of said arm, said arm being biased to normally engage one of said contacts and be disengaged from the other contact, means operatively connecting said piston with said switch arm, said piston being arranged to be moved away from its initial position by compression of said bulb to a displaced position so as to move said switch arm away from said one contact and into engagement with the said other contact, the movement of the piston from initial to displaced position serving to open said first conduit to the interior of said cylinder resulting in communication between said first and second conduits through the cylinder and operation of said shutter operating device, said lamp unit having a first side adapted to be connected to a side of a power line, said lamp unit having another side connected to said one contact of said controlling switch, an autotransformer having a winding connected at one end to said first side of the lamp unit and connected at its other end to the second side of the lamp unit, and at least one tap leading from the transformer winding at a point between the ends thereof, said tap being connected to said other contact of the controlling switch, and a conductor leading from said controlling switch arm for connection to the remaining side of the power line.

2,668,486
FILM DEVELOPING HANGER DRIP TROUGH
William C. Barker, Jr., San Diego, Calif.
Application April 8, 1946, Serial No. 660,536
3 Claims. (Cl. 95—100)



1. For use in combination with wet X-ray photographic cut film held suspended vertically in a hanger frame having a lower bar, of a tray for catching the drippings from said film and frame when held suspended, said tray having a bottom, with side and end wall members disposed at the edges of the bottom to form an open mouth defined by the rim of said side and end wall members, attaching members connected directly to the upper surface of said bottom wall member and extending at substantially right angles from said bottom member and within the confines of the rim of the tray comprising clip members having upwardly extending portion of resilient material provided with opposed diverging portions and detent portions engageable at opposite sides of said lower bar.

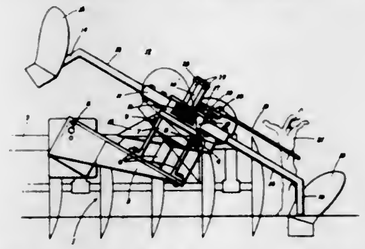
2,668,487
AGRICULTURAL MACHINE AND HOEING DEVICE THEREFOR
Leo A. Marihart, Salinas, Calif., assignor to M. P. H. Industries, Palo Alto, Calif., a corporation of California
Application June 2, 1950, Serial No. 165,760
3 Claims. (Cl. 97—38)



1. In an agricultural machine for performing hoeing operations on plant beds, a shaft carried by the machine and extending longitudinally in the direction of movement thereof, said shaft being adapted to be rotated for performing hoeing operations, a hub carried by the shaft, a rigid arm member carried by the hub, and extending

outwardly in a general radial direction, a rigid cross member secured to the outer end of said arm and extending parallel to the axis of the shaft, a pair of coil springs mounted upon the end portions of said cross member, one end of each coil spring being anchored to the cross member, the other ends of said coil springs being extended parallel to each other to form a second arm, said second arm extending outwardly with respect to the shaft and rearwardly with respect to the direction of rotation, and a ground hoeing blade secured to the outer extremity of said second arm, said blade being movable in both radial and circumferential directions against the urge of said coil springs when said blade is disposed to dig across a plant bed upon rotation of the shaft.

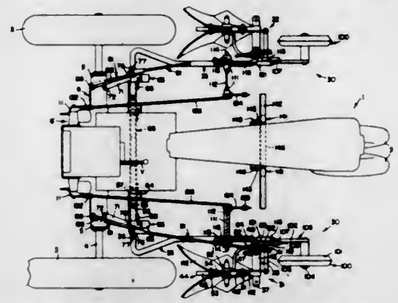
2,668,488
VINEYARD PLOW
William L. Shimmon, Modesto, Calif.
Application March 14, 1951, Serial No. 215,453
1 Claim. (Cl. 97—46.89)



A plow comprising a support movable along the ground, a circular body on the support canted laterally, a plow rotor comprising a hub turnable on the body, arms extending radially from the hub and plow blades supported from the outer end of the arms; latch means on the body to prevent rotation of the rotor from any one of a plurality of predetermined positions and including a releasable spring-advanced latch member pivoted on the body for fore and aft movement, a pull unit projecting forwardly from the latch member and connected thereto relative to its pivot so that forward movement of the unit releases the latch member, a trigger arm engageable with a trunk projecting laterally from and operatively connected to the forward end of the pull unit, and a plate rigid with and projecting forward from the body on which the trigger is pivoted intermediate its ends; the pull unit including a finger at its forward end slidably and swivelly mounted on the plate and having a laterally and rearwardly facing notch, and the trigger arm being arranged at its end adjacent the unit to releasably engage the forward end of the notch.

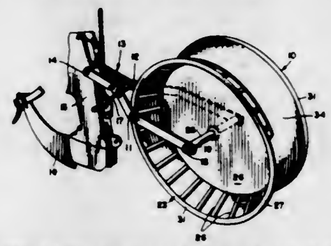
2,668,489
TRACTOR-MOUNTED LISTER
Walter H. Silver, Moline, Ill., and William V. Lohrman, Davenport, Iowa, assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application December 29, 1949, Serial No. 135,642
3 Claims. (Cl. 97—47.12)

1. For use in an agricultural implement of the type adapted to be mounted on a tractor having a narrow body and a rear axle including laterally outwardly disposed extensions, and in which said implement includes a pair of push bars adapted to be disposed at opposite sides of the tractor body and including laterally inturned portions at the rear ends of the push bars, the improvement comprising an attaching structure including a pair of supports attachable to said tractor axle extensions and each including means providing a pair of laterally spaced apart, forwardly facing sockets, a transverse tubular member releasably disposed in said sockets and adapted to rockably receive the inturned end



portions of said push bars and to be seated in said sockets, an upstanding arm fixed at its lower end to each end of said tubular member, brace means connectible between each upstanding arm and the tractor rear axle, and means carried by each of said sockets and disposable in front of the associated tubular member for releasably holding said tubular member in said sockets.

2,668,490
FLEXIBLE TREAD PRESS WHEEL
William P. Oehler and Arthur J. Immesoete, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 15, 1951, Serial No. 241,908
2 Claims. (Cl. 97—56)

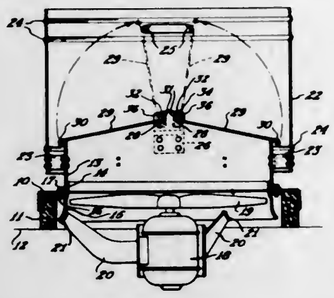


1. A press wheel structure for planters and the like, comprising a wheel having a reticulate rim portion including axially spaced apart ring members formed of rod-like material and a plurality of peripherally spaced apart, transversely extending rod-like crossbars and a wheel web fixed to the generally central portion of said crossbars, the peripheral spacing of the latter being less than the axial distance between said ring members, and a single endless relatively thin band overlying and contacting each of said crossbars throughout their entire length, portions of said band being displaceable generally radially inwardly into the spaces between said crossbars.

2,668,491
POWER ROOF VENTILATOR
Reuben A. Gerlitz, Springfield, Ohio, assignor to Robbins & Myers, Inc., Springfield, Ohio, a corporation of Ohio
Application August 16, 1950, Serial No. 179,735
1 Claim. (Cl. 98—43)

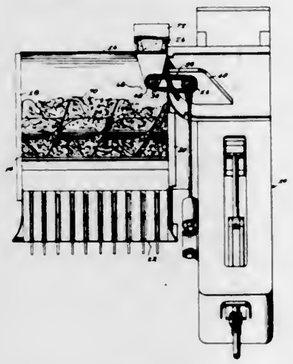
A ventilator comprising a cylindrical casing substantially vertically disposed, a base flange

on the lower end of said casing, a fan ring having an annular flange, means engaging said base flange and said annular flange whereby said casing and said ring are secured together, a motor driven fan secured to said ring, the upper edge of said casing lying in two planes sloping downwardly and outwardly from a diameter of said casing, bearing brackets secured to said casing at each end of said diameter, a pair of damper blades of semi-circular shape adapted in their closed position to rest on the upper edge of said casing in said two planes, pivot rods secured to



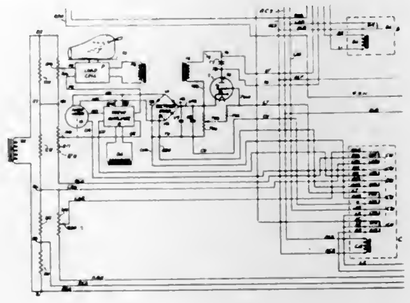
said blades adjacent their diametral edges, and having bearings in said bearing brackets, the diametral edge of each of said blades being provided with an upwardly directed flange terminating in an outwardly directed flange, and a roof element secured to said bearing brackets and having portions extending over said bearings to protect them from rain and the like, said roof element between said brackets having flanges depending downwardly outside the flanges on said blades and slightly spaced therefrom, to prevent access of rain while permitting slight air circulation when said blades are closed.

2,668,492
SALT ATTACHMENT FOR PICKUP BALERS
Anton Chmielewski, Iron River, Mich.
Application June 26, 1951, Serial No. 233,585
1 Claim. (Cl. 99—235)



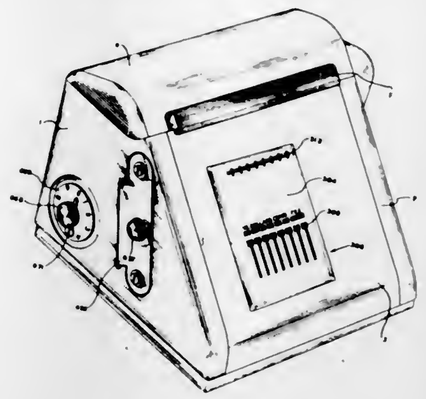
A salt attachment for a baler of the type having a feeding chamber provided with a side wall, a feed auger disposed transversely to and extending from the wall, and a packer fingers drive shaft paralleling the wall on the side opposite from the feed auger and including a circumferential shoulder, comprising: a hopper having a bottom wall; mounting arms depending from the hopper and adapted to be affixed to the feeding chamber side wall adjacent said shoulder with the hopper vertically overlying the feed auger; an agitator rotatably journaled in the hopper; drive means for said agitator connected to the packer fingers drive shaft and including a circular drive wheel formed of plurality of wheel segments circumposed about the shaft in abutting relation to and fixedly attached to the shoulder, said drive means further including a driven wheel on the agitator and an endless flexible element connecting the drive and driven wheels for joint rotation; and manually operable valve means on the bottom wall of the hopper for controlling the discharge of salt therefrom.

2,668,493
WEIGHING SYSTEM
Walter E. Moss, Brookfield, and Orlando Garapolo, Chicago, Ill., assignors to Wilson & Co., Inc., a corporation of Delaware
Application October 10, 1952, Serial No. 314,108
11 Claims. (Cl. 99—256)



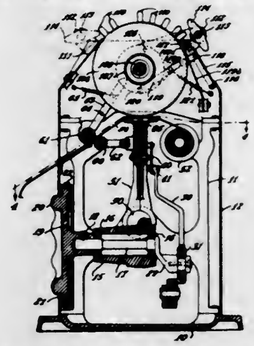
1. In a weighing system in which the article being weighed is subject to processing causing a change in base weight and in which the processing is to be terminated after said article has changed weight by a predetermined percentage of its base weight, the combination of means for generating a potential whose value is proportional to the base weight of said article, additional means for providing a second potential, servo means for varying said additional means, potential responsive means having normal and off-normal electrical conditions when said two potentials are respectively substantially unequal and equal, means for supplying said two potentials to said potential responsive means, means for operating said servo means only when said potential responsive means is in its normal condition to vary said second potential in a direction to equalize the two potentials, process control means, including a winding, having active and inactive positions, relay means for maintaining said process control means inactive while said servo means is operative, relay means for modifying said second equalized potential by a desired proportion and for disabling said servo means, relay means for activating said process-control means when said second potential has been equalized and when said servo means has been disabled, relay means for maintaining said servo means disabled while said article weight is changing during processing and means for deactivating said process control means after said first potential has changed from the base weight potential to a value substantially equal to the modified potential.

2,668,494
ACCOUNTING MACHINE
Loring P. Crosman, Darien, Conn., and Harold J. Chall, San Leandro, Calif., assignors to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application February 20, 1950, Serial No. 145,204
27 Claims. (Cl. 101—93)



11. In a record issuing machine of the class described, a series of individually releasable differential stops, means differentially actuable to limiting engagement with a released one of said stops, a keyboard having individual set-up members columnarly arranged and each manually settable in one of a plurality of data representative settings, keyboard reading means spaceable for cooperative engagement with said set-up members successively and actuable in accordance with the setting of an individual set-up member for selectively controlling the release of said stops, a record chamber mounted for concurrent differential and spacing movement, said spacing movement being in a direction transverse to the direction of said differential movement, said differential movement being controlled by said differentially actuable means to set said chamber in one of a plurality of data recording positions, a row of individually releasable type elements, one for each differentially set position of said chamber and disposed for printing engagement with a record within said chamber, said row extending longitudinally in the direction of differential movement of said chamber, said type elements being spaced apart within said row equally to the spacing between said data recording settings of said chamber, a latch member for each of said type elements, said latch member engaging an associated type element and actuable for releasing the associated type element, spacing mechanism associated with said chamber and said keyboard reading means and effective for correlating each columnar spaced position of said chamber relative to said row of type elements with an individual one of said keyboard set-up members, a trip member carried by said differentially actuable means, said trip member selectively actuating the latch member associated with the type element corresponding to the data recording setting of said record chamber relative to said row of type elements, and means for restoring said type element to latching engagement with said latch members.

2,668,495
PENCIL MARKING MACHINE
Gregory G. Wright, Cincinnati, Ohio, assignor to Pencil Crafts, Inc., Georgetown, Ky., a corporation of Kentucky
Application November 7, 1950, Serial No. 194,409
6 Claims. (Cl. 101—110)

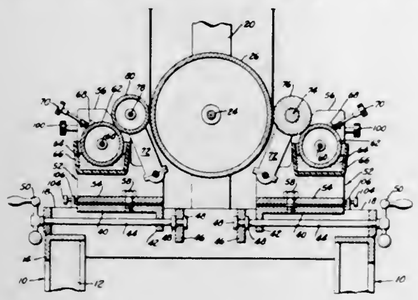


1. A marking machine comprising a plurality of printing wheels coaxially mounted and which may be aligned to spell out a desired legend, each of said wheels being divided peripherally into three sections, one section carrying a series of printing characters, another section carrying a series of legible characters corresponding to said printing characters, and the third section carrying a series of locking notches equal in number to the number of said printing characters, an index bar parallel to the axis of said printing wheels and with respect to which said legible characters may be visually aligned whereby said printing characters are aligned to print the legend set up by means of the legible characters, a locking member having a portion to engage in the aligned locking notches of all said printing wheels to hold them in their set position during printing, and means for actuating said locking member, levers mounted adjacent each end of said plurality of printing wheels coaxially thereof, said levers being connected by a bar for manual actuation, said locking member being mounted on levers pivoted in said machine substantially in alignment with said first mentioned levers respectively, and a connection between the respective levers whereby actuation of said first mentioned levers by means of said manual bar in one direction will produce movement of said last mentioned levers to cause said locking member to engage in said locking notches.

2,668,496
CYLINDER SUPPORT MEANS FOR ROTARY TAPE PRINTING PRESSES
Gaylord G. Thompson, Redwood City, Calif., assignor to Thomco Mfg. Co., Inc., Redwood City, Calif., a corporation of California
Application June 22, 1951, Serial No. 233,033
2 Claims. (Cl. 101—178)

1. A machine of the class described comprising a support frame, a horizontally disposed carriage bed carried by said frame, a pair of oppositely disposed spaced parallel post members extending upwardly from said frame, a shaft journalled for support in said post members, a cylindrical platen secured to said shaft, a carriage support plate connected to said carriage bed for horizontal sliding movement thereon toward and away from said platen, screw shaft means interconnecting said support plate and bed and rotatably operable to adjustably move said plate

with respect to said bed, a carriage base plate superposed on said support plate and connected to said support plate for pivotal movement with respect thereto about a vertical axis by removable bolt means, means carried by said support plate in engagement with said base plate adapted to adjustably secure said base plate in a selected pivotal attitude with respect to said support plate, a pair of spaced parallel carriage wall plate elements extending upwardly from the side edges of said base plate and fixedly carried thereby, a first shaft journalled for rotation in said wall plate elements, an inking roll secured



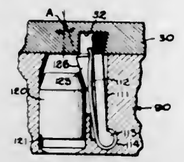
to said shaft, a pair of parallel oppositely disposed lever arms pivotally connected at their lower ends to said wall plate elements and having their common pivotal axis disposed between said platen shaft and said inking roll shaft and at a lower level than said inking roll shaft, a shaft journalled in the upper ends of said lever arms, a printing roll secured to said shaft, and set screw means carried by said wall plate elements and connected to said lever arms adapted to adjustably rock said arms toward and away from said inking roll and away from and toward said platen.

2,668,497

LOCKUP FOR PRINTING PRESSES

Henry L. McWhorter, Hinsdale, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois

Application February 7, 1950, Serial No. 142,907
5 Claims. (Cl. 101—378)



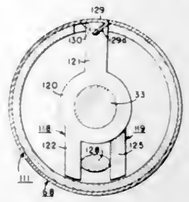
1. In a tension lockup for clamping a printing plate on a printing cylinder, the combination comprising, a leading edge clamp for engaging the leading edge of the plate and positioning the same for peripheral register, a trailing edge clamp having a hook for engaging the trailing edge of the plate, said hook being movable in said clamp, a weight radially movable in said trailing edge clamp under the influence of centrifugal force, and means including a wedging surface between said weight and said hook for urging the hook in a plate tensioning direction upon outward movement of the weight, the angle of said wedging surface being sufficiently shallow to prevent retrograde action whereby the plate is maintained at a constant peripheral dimension so that cyclical working of the plate on the cylinder is obviated.

2,668,498

IMAGE-REPRODUCING PLATE AND CYLINDER ASSEMBLY

John A. Boyajean, Jr., Upper Montclair, N. J., assignor to Fairchild Camera and Instrument Corporation, a corporation of Delaware

Original application July 24, 1948, Serial No. 40,595. Divided and this application February 9, 1951, Serial No. 210,170
3 Claims. (Cl. 101—415.1)



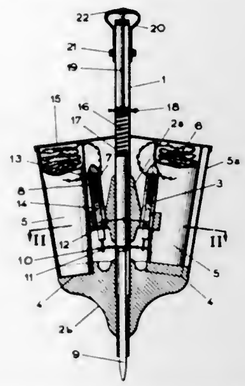
1. In a machine for producing on a plate from an image sheet a screened relief pattern suitable for image reproduction by printing processes, an image-reproducing plate and cylinder assembly comprising: an image-reproducing plate of flexible deformable material having notched ends with parallel preformed tensioning flanges at the ends of the notch-separating portions thereof and with notches on the two ends staggered with respect to each other; a supporting cylinder mechanism having provisions supporting it for rotation and a longitudinal slot extending to the periphery thereof and notched complementarily to said plate; two groups of interleaved tensioning members disposed in the notches of said slot and movable transversely thereof in opposite directions; said groups of tensioning members including a pair of series of slots disposed to receive said flanges of said plate; and means for moving said tensioning members transversely of said slot to tension said plate about said cylinder.

2,668,499

BOMB FOR LAYING WIRE ENTANGLEMENTS

Gaston Amédée Mourlaque, Levallois-Perret, France, assignor to Societe Nouvelle des Etablissements Brandt, Paris, France, a corporation of France

Application March 1, 1951, Serial No. 213,346
Claims priority, application France March 6, 1950
4 Claims. (Cl. 102—89)



1. A bomb or grenade for laying barbed or ordinary wire entanglements comprising in combination a tube, a first stand around said tube,

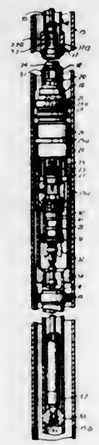
a first series of recesses in said first stand, a gun in each of said recesses in said first stand, a shell on each of said guns, a striker on each of said shells, a second stand, a second series of recesses in said second stand, a container in each of said recesses in said second stand, barbed or ordinary wire in each of said containers, one end of said wire in each of said containers being secured to said shells and the other end to said container, a pile inside one end of said tube and releasing said strikers when hitting the ground, and a case around said containers.

2,668,500

TWO-ZONE PUMP

Temple P. Hoffer, Dallas, Tex., assignor to Otis Pressure Control, Inc., Dallas, Tex., a corporation of Delaware

Application October 11, 1948, Serial No. 53,965
17 Claims. (Cl. 103—4)



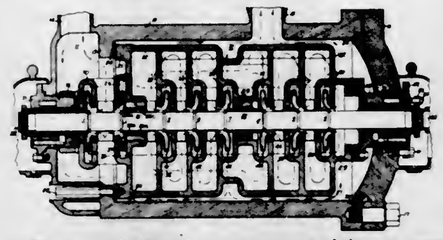
15. In a two-zone well pumping apparatus for use in pumping wells having two vertically spaced fluid-producing formations communicating with a well bore, said apparatus including in combination, a flow string of tubing extending downwardly within the well bore and having at least one opening for each formation to provide communication between the interior of the tubing and both formations, means within the tubing communicating with each of said tubing openings, two reciprocating type pump units disposed within the tubing adjacent the two formations respectively, an actuating rod operably connected with both pump units, first additional means rendering one of said pump units inoperable upon rotation of said rod and including a first part having an operating connection with the rod and said first part being movable relative to the tubing by rotation of the rod and cooperating with the communicating means within the tubing, to interrupt normal fluid flow through the communicating means and from said one pump unit, and second additional means rendering the other of said pump units inoperable upon reciprocation of said rod outside the usual limits of a pumping operation and including a second part having an operating connection with the rod and movable relative to the tubing to cooperate with said communicating means to interrupt normal fluid flow through said communicating means and from said other pump unit.

2,668,501

MULTIPLE STAGE CENTRIFUGAL PUMP

Milton W. Lutz, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

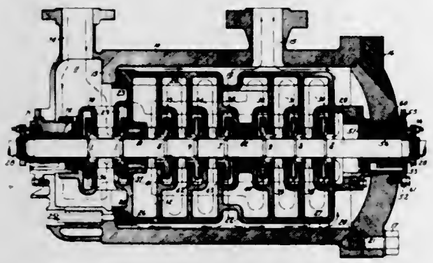
Application October 27, 1949, Serial No. 123,856
4 Claims. (Cl. 103—108)



1. In a centrifugal pump comprising a casing defining an inlet passageway, an outlet passageway and a plurality of compartments adapted for fluid communication, a shaft supported for rotation in said casing and extending between and through said compartments, a plurality of impellers mounted on said shaft and hydraulically connecting said compartments in series relation between said inlet and outlet passageways for the flow of liquid therethrough, each of said impellers having a collar extending rearwardly of the inlet of each of said impellers and surrounding said shaft, a first one of said impellers being operatively disposed for rotation in said casing to establish a first predetermined pressure in a first one of said compartments and a second one of said impellers being operatively disposed for rotation in said casing to establish a second predetermined pressure in a second one of said compartments adjacent said first compartment, said first predetermined pressure being higher than said second predetermined pressure, said second impeller being disposed with its collar extending toward said first compartment, the improvement comprising a liquid seal structure including a portion of said casing extending between said first and second compartments, said casing portion surrounding a segment of said shaft and presenting an internal annular sealing surface in radially spaced concentric relation thereto, a sleeve concentrically mounted on said shaft segment between said casing portion and said shaft, means cooperating with said shaft and said sleeve for securing said sleeve in nonrotatable and axially slidable relation to said shaft, said sleeve having a part telescopically surrounding at least a portion of said collar of said second impeller, said sleeve presenting at each end thereof annular radially extending surfaces opened to said first and second compartments and presenting intermediate said ends a first external axially extending sealing surface and a second internal axially extending sealing surface, said second surface having a first inwardly directed flange means and an axially extending means, said first surface being in slidable sealing engagement with said internal surface of said casing portion and said flange means presenting a third surface in slidable sealing engagement with said shaft segment, said axially extending means being in slidable and nonrotatable engagement with said portion of said collar of said second impeller, and resilient means surrounding said shaft between said flange means and said portion of said collar of said second impeller, said resilient means being compressible into positive sealing engagement with said shaft segment and said flange means and said portion of said collar of said second impeller in response

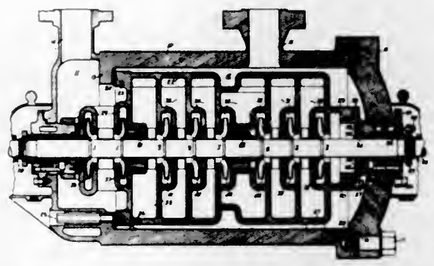
to the difference between said first and second predetermined pressures on said annular radially extending surfaces.

2,668,502
DOUBLE CASING PUMP
Edward J. Blackwell, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application October 26, 1949, Serial No. 123,719
4 Claims. (Cl. 103—109)



1. A centrifugal pump comprising: an outer casing having an inlet passageway and an outlet passageway for the flow of liquid therethrough and having an internal wall portion defining an opening; an inner casing in said outer casing cooperating with said wall portion to close said opening and divide said outer casing into separate intake and discharge chambers respectively communicating with said inlet and discharge passageways, said inner casing comprising first, second and third wall parts, said first wall part defining a plurality of compartments and intake passages for said liquid, each said compartment communicating with the intake passage hydraulically adjacent thereto and the last of said compartments communicating with said outlet passageway, said second wall part cooperating with said first wall part to define an intermediate passage contiguous to said second wall part and communicating with one of said compartments, said third wall part cooperating with said second wall part to define a pair of compartments on the intake chamber side of said second wall part, one compartment of said pair being contiguous to said second wall part and both compartments of said pair communicating with one of said intake passages, a shaft supported for rotation in said inner casing and extending through said wall parts; sealing means interposed between said shaft and said second wall part; a plurality of single impellers mounted on said shaft, said single impellers being operatively disposed for rotation in said compartments of said first wall part to develop predetermined positive liquid pressures therein and in said intermediate passage, and a pair of impellers mounted on said shaft on the intake chamber side of said second wall part, one impeller of said pair of impellers being operatively disposed in one compartment of said pair of compartments and the other impeller of said pair of impellers being operatively disposed in the other compartment of said pair of compartments, said pair of impellers cooperating to reduce the velocity of liquid flow into said pair of compartments below the velocity of flow in said intake passages and to develop a predetermined liquid suction pressure in said intake chamber and a predetermined intermediate liquid pressure in said pair of compartments greater than said suction pressure, said intermediate pressure cooperating with said sealing means to substantially prevent back liquid flow from said intermediate passage to said intake chamber.

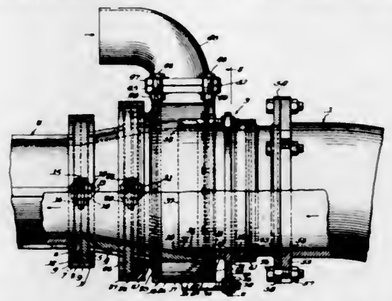
2,668,503
DOUBLE CASING PUMP
Hugh L. Ross, Shorewood, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application October 26, 1949, Serial No. 123,768
1 Claim. (Cl. 103—111)



A double casing for a multistage centrifugal pump comprising: an integral outer pressure casing having an open end, an inner pump casing mounted in spaced relation within said outer casing, a shaft journaled in said inner casing extending axially therefrom to the exterior of said pump, an integral annular cover defining a single uninterrupted cylindrical internal surface radially spaced about said shaft, said cover being detachably secured to said open end of said outer casing to close said open end of said outer casing, said inner casing having end wall means terminating in an annular portion radially spaced from said shaft, a one piece annular member radially spaced about said shaft and attached to said inner casing end wall means, said annular member extending through said cover and being movable relative thereto in response to axial expansion of said inner casing, said member presenting a single uninterrupted cylindrical external surface complementary to said internal surface of said cover and cooperating therewith to withstand the full discharge pressure of said pump to atmosphere, first sealing means positionable externally of said cover cooperating with said surfaces to seal said annular member to said cover in all relative axial positions thereof, and second sealing means positionable externally of said cover for sealing said member against said shaft.

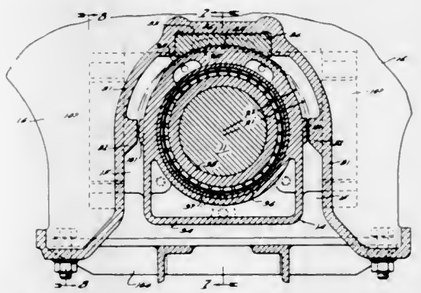
2,668,504
JET NOZZLE
John W. Meckenstock, Chicago, Ill., assignor to Meckum Engineering, Inc., Chicago, Ill., a corporation of Illinois
Application December 15, 1949, Serial No. 133,076
4 Claims. (Cl. 103—272)

1. In a jet nozzle, a pair of spaced, axially aligned tubular sections comprising a portion of a conduit for carrying a primary fluid, a concentric annular housing mounted on the upstream end portion of the downstream section and having an inwardly opening, annularly-shaped recess therein, the upstream end portion of the downstream section extending partially across the mouth of said recess, a sleeve operatively connecting the adjacent end portions of said spaced tubular sections and axially movable relative to said sections, the upstream end portion of the downstream section, said sleeve, and said housing forming a fluid chamber encircling the conduit, means for admitting a secondary fluid under pressure into said chamber, the downstream end of said sleeve being positioned adjacent to but spaced from the upstream end portion of the downstream section to form a passageway therebetween connecting the conduit interior with said fluid chamber for admitting secondary fluid from said chamber



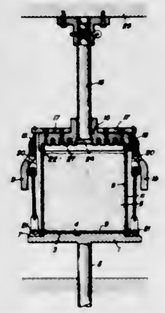
into said conduit, the opposite end of said sleeve having a portion concentric with the downstream end portion of the upstream section to provide an adjustable joint therebetween, gasket means operatively interposed between said sleeve and the adjacent housing wall, and means carried by said housing for supporting said sleeve in a relatively adjusted position with respect to the end portions of said spaced sections.

2,668,505
ROCKER BLOCK AXLE MOUNTING
Robert N. Janeway, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application August 21, 1948, Serial No. 45,481
6 Claims. (Cl. 105—224.1)



4. In a railway car truck, a pair of laterally spaced side frames having transverse, downwardly facing, longitudinally extending, cylindrically formed, concavely curved wheel axle journal openings adjacent each end thereof, a transversely extending wheel axle connected between the openings at each end of said frame, bearing assemblies carried by each end of the axles mounting the wheel axles in the journal openings, each assembly comprising a housing surrounding the wheel axle and roller bearing means disposed between the housing and the axle, each housing including an upwardly facing, longitudinally extending, cylindrically formed, convexly curved, side frame supporting portion concentrically arranged within and engageable with a curved portion of the associated side frame journal opening, the radius of curvature of said curved surface of the bearing assembly housing being less than the radius of curvature of the associated side frame journal opening so as to permit said housing and axle to roll longitudinally of the side frame journal opening under control of the engaged cylindrical surfaces which provide an equilibrium stabilizing device that permits the load of the side frames to resist longitudinal movement of the axle and to restore the axle to its normal position, and resilient means interposed between each side frame and each axle arranged to resist the relative longitudinal and vertical movement of the side frames with respect to the axles when rolling occurs between the concentrically engaged curved surfaces.

2,668,506
APPARATUS FOR CONVERTING A HARD FROZEN CONFECTION INTO A PLASTIC STATE
Frank Wesley Moffett, Jr., Chili, N. Y.
Application December 6, 1951, Serial No. 260,244
5 Claims. (Cl. 107—32)

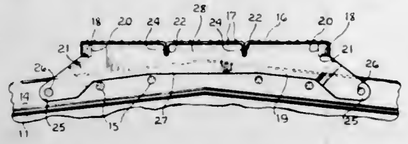


1. Apparatus for reducing a frozen mass while packaged in a cardboard container from a hard state to a plastic state including a vertically reciprocatory support adapted to receive thereon a cylindrical container filled with a frozen mass, a flexible metallic cylindrical wall with separaole ends adapted to be clamped around said cylindrical container with its lower edge resting on the container and support, a metallic cover adapted to engage the upper edge of said container and flexible wall, clamping means carried by the support and engaging said cover acting to hold the latter engaged with the container and flexible wall, and a perforate plunger located beneath the cover, said plunger being stationary in relation to said movable support and said support and container being movable in opposite directions in relation to said stationary plunger.

2,668,507
RUNNING BOARD AND MEANS FOR ATTACHING THE SAME TO THE ROOF OF RAILWAY CARS
Charles S. Johnston, Chicago, Ill., assignor to Transportation Specialties Co., Chicago, Ill., a corporation of Illinois
Application February 16, 1951, Serial No. 211,346
4 Claims. (Cl. 108—5.4)

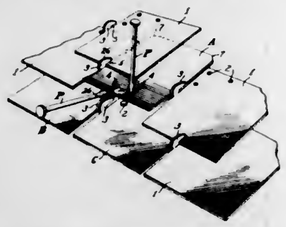
1. A running board for a railway car, which car has a roof made up of roof plates arranged in substantially the same plane with adjacent upturned edges in abutting relation with respect to each other and having a seam cap over each of such abutting edge portions and riveting to such edge portions at spaced intervals, said running board extending along the longitudinal cen-

ter line of said car comprising transversely extending end plates secured to the running board for installation therewith upon the car roof as a unit of the running board, the opposite outer end portions of said end plates each extending outwardly beyond the longitudinal edges of the running board and each perforated for the passage of a rivet securing the seam cap to the upturned edges of said roof plates, said outer end portions of said end plates each extending down-



wardly and outwardly of the adjacent longitudinal edge of the running board to a position in facial abutment with an adjacent surface of the seam cap to dispose the intermediate portion of said plates in a plane above any intermediate rivets positioned between said outer end portions of said end plates, said running board having longitudinal parallelly extending spaced apart reinforcing ribs intermediate the longitudinal edges thereof, the ends of said ribs being in abutment with the end plates and welded thereto.

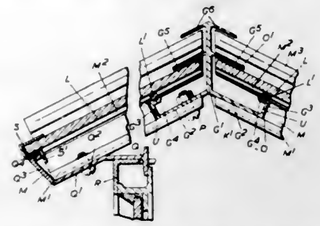
2,668,508
INTERLOCKING SHINGLE
Paul C. Newfield, Sr., New Orleans, La.
Application December 8, 1949, Serial No. 131,876
5 Claims. (Cl. 108—9)



1. Interlocking shingle of sheet material having an upfolded marginal lug perpendicular to the plane of the face of said shingle, the fold line of said lug coinciding with the peripheral edge of said shingle, said lug having an open ended slot the lower side of which lies in a plane parallel to the face of said shingle and being of a width to snugly receive the overlapping marginal portion of an adjacent shingle, the portion of said lug above said slot being tapered downward toward the open end of said slot.

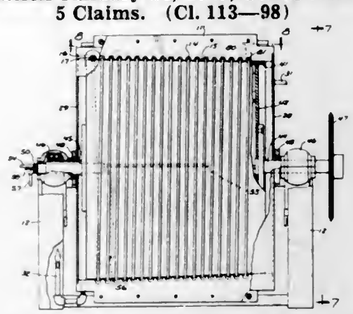
2,668,509
GLAZED AND LIKE ROOF STRUCTURE OF THE LANTERN LIGHT OR DECK LIGHT TYPE
Jack Fox-Williams, London, England, assignor to Williams & Williams Limited, Chester, England, a company of Great Britain
Application January 21, 1952, Serial No. 267,411
Claims priority, application Great Britain January 24, 1951
6 Claims. (Cl. 108—16)

1. A roof structure comprising eaves members, at least one supporting member lying above and spaced horizontally from the eaves members and having a web from the lower edge of which project laterally a pair of flanges having upturned edge portions, glazing bars extending between the supporting member and at least one of the eaves members and each consisting of a web from which project laterally flanges to form channels for water and abutments, appropriate parts of the web being cut away so that the ends of the flanges constituting the channels may pass under the adjacent flange on the supporting member, members connecting said flanges on the supporting member to said flanges on the glazing bars, sheet



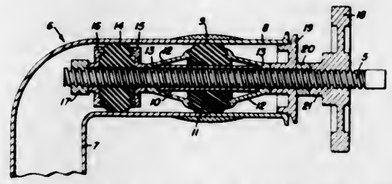
material extending between and resting on the flanges constituting abutments on the glazing bars and a drainage system including apertures in those parts of the upturned edge portions of the flanges of the supporting member which lie immediately over the flanges constituting channels of the glazing bars so that water which may collect in the space between the supporting member and the upturned edge of its flange will drain into the channels formed by the said flanges of the glazing bars and thence escape down said channels.

2,668,510
DEVICE FOR COOLING BONDED TUBING
George G. Mally, Detroit, Mich., assignor to Bundy Tubing Company, Detroit, Mich., a corporation of Michigan
Application January 24, 1949, Serial No. 72,388
5 Claims. (Cl. 113—98)



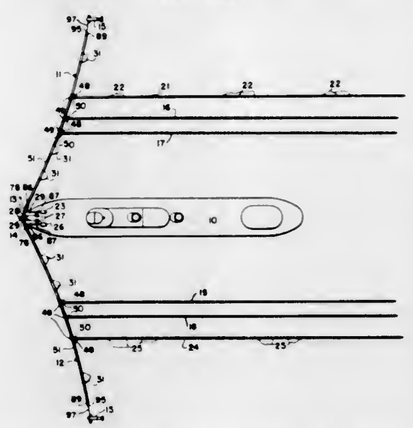
1. A device for cooling tubing which has been fashioned from longitudinally moving strip metal stock and which has been heated for the uniting of seams or plies thereof, comprising, a housing, a drum within the housing having a single thickness peripheral wall upon which the tube may be wound, means for rotating the drum, said housing having an inlet for the tubing and having an outlet for the exit of the tubing, the inner peripheral walls of the housing being formed with a helical groove with wall portions between each convolution of the groove positioned relatively close to the periphery of the drum whereby to provide a substantially closed groove formation for the convolutions of the wound tubing, said drum having closed ends and means for causing a cooling fluid to flow through the drum in contact with the inner surfaces of the single thickness peripheral wall.

2,668,511
PLUMBER'S TOOL
William J. Eberle and Emile B. Dubuisson, Elsa, Tex.; said Eberle assignor to I. B. Henson, Jr., Elsa, Tex.
Application December 17, 1951, Serial No. 261,962
3 Claims. (Cl. 113—103)



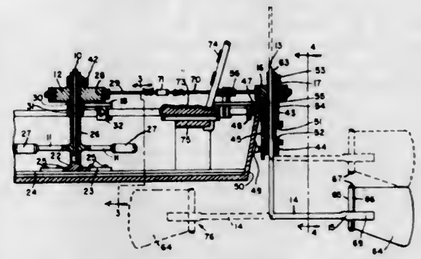
1. A plumber's tool of the character described comprising a threaded shaft, a sleeve slidably mounted on said shaft, a resilient expansible collar mounted on said sleeve, a pair of cones slidably mounted on the shaft adjacent the ends of the sleeve and engaged with the collar, stop means for said cones mounted on one end of said shaft, means including a handwheel threadedly mounted on the other end of the shaft for moving the cones toward each other for expanding the collar, said sleeve being engageable with the cones for positively limiting the movement thereof toward each other.

2,668,512
FAIRED TOWING MEANS FOR ANTITORPEDO DEVICES
Harold W. Klas, Lansing, Mich.
Application April 15, 1943, Serial No. 483,105
5 Claims. (Cl. 114—240)
(Granted under Title 35, U. S. Code (1952), sec. 266)



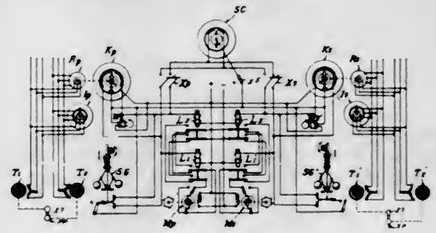
1. In a system of the character disclosed for disabling a torpedo comprising an explosive streamer and a detecting streamer disposed within a body of water, said detecting streamer having a plurality of microphonic devices arranged therein, the combination of a vessel, a faired tow line comprising a plurality of closely spaced articulated faired members and secured to the vessel, a paravane attached to the free end of said tow line and disposed within the water, means for coupling said streamers to the faired tow line, a source of compressed air carried on the vessel, means disposed within the faired tow line for connecting each of the streamers to said source of compressed air, and means including a plurality of electrical conductors arranged within the tow line for exploding said explosive streamers selectively in accordance with signals received from said microphonic devices.

2,668,513
FOOT ACTUATING TROLLING IMPELLER
Walter Reynolds, Conway, Ark.
Application September 11, 1950, Serial No. 184,221
3 Claims. (Cl. 115—25)



1. In a foot actuated propeller mounting for use on boats, the combination which comprises a vertically disposed shaft, a sleeve mounted on the shaft, a bearing adapted to mount the lower end of the shaft in the bottom of a boat, diagonally disposed braces having bearings on the ends thereof for supporting the upper part of the shaft and sleeve from the sides of a boat, a spider having radially disposed arms with foot pedals on the arms carried by the lower end of the sleeve, a sheave mounted on the upper end of the sleeve, a vertically disposed propeller shaft, a sleeve mounted on the propeller shaft, a bracket adapted to be positioned on the stern of a boat in which the sleeve and propeller shaft are journaled, means for clamping the bracket to the stern of a boat, diagonal braces having bearings on the ends extended from the sleeve and propeller shaft, means for clamping the ends of the braces to the sides of the boat, a pulley carried by the sleeve on the propeller shaft, cables connecting the pulleys on the propeller shaft and shaft upon which the pedals are carried, and a propeller blade carried by the lower end of the propeller shaft.

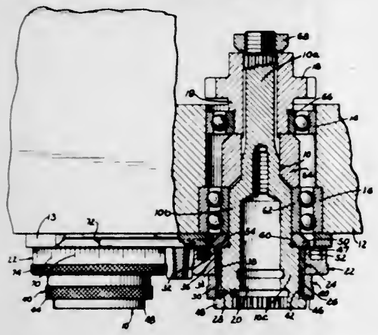
2,668,514
MARINE PROPELLER STEERING SYSTEM
Harry J. Nichols, Point Pleasant, N. J.
Application July 30, 1948, Serial No. 41,656
9 Claims. (Cl. 115—35)



6. In a propulsion system for a twin screw vessel including controllable pitch twin propellers and individual mechanisms for changing the pitch of each of said propellers, in combination, individual pitch control means operatively connected to each of said individual mechanisms

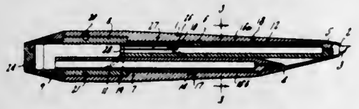
for varying independently the pitch of said propellers, and automatic pilot apparatus operatively associated in supervisory control relationship to said pitch control means and being selectively connectable to said individual pitch control means singly or jointly, thereby to regulate the relative pitch of said propellers so as to steer said vessel on a set course.

2,668,515
MICROMETER DIAL MECHANISM
Thomas H. Evans, Fond du Lac, Wis., assignor to Giddings & Lewis Machine Tool Company, Fond du Lac, Wis., a corporation of Wisconsin
Application August 23, 1951, Serial No. 243,275
4 Claims. (Cl. 116—124)



1. In a feeding mechanism for a machine tool, a drive shaft including a cylindrical portion, an enlarged portion forming an outwardly extending flange at one end of the cylindrical portion, a reduced portion forming an inwardly extending shoulder at the opposite end of the cylindrical portion, a sleeve slidably carried on the cylindrical portion, interengaging parts on the sleeve and the shaft providing for relative longitudinal sliding movement thereof while preventing relative rotation thereof, external threads on the sleeve adjacent the flange, an external tapered portion on the sleeve at its end remote from the flange and tapering toward the threads, a ring dial carried on the sleeve between the threads and the external tapered portion and having an internally tapered surface positioned for clamping engagement with the externally tapered portion of the sleeve, a nut carried on the threads for moving the sleeve into and out of clamping engagement with the dial, and a ring-shaped spacer carried on the reduced portion of the shaft against the inwardly extending shoulder to form an outwardly extending shoulder for confining the dial and the nut on the shaft against substantial end play.

2,668,516
WRITING DEVICE
Predrag Jovanovitsch, Maracay, Venezuela
Application November 10, 1947, Serial No. 785,016
Claims priority, application Switzerland September 9, 1947
2 Claims. (Cl. 120—42.13)



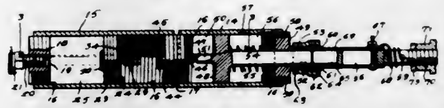
1. A writing instrument comprising a tubular housing having a front end provided with an aperture, a pair of writing elements in said housing, each of the elements having a sliding surface, said sliding surfaces abutting against each other, an operating structure rotatably connected to said housing and engaging both of said elements, each of said elements being adapted to assume a retracted position inside of the housing or an extended position in which an end of the respective element projects through the aperture, each of the writing elements having a set of grooves consisting of a helical groove, a coaxial groove and a pair of circumferential grooves, the coaxial and circumferential grooves communicating with one another, means on the operating structure selectively cooperating with the helical grooves to advance and retract the writing elements, a projection in the housing co-operating with the co-axial and circumferential grooves of one of the writing elements to prevent rotation of said element while said element is located in a position with its forward part projected out of the housing, a second projection in the housing for preventing rotative movement of the other writing element while the latter element is in position with its forward part projected out of the housing, said projections being simultaneously registrable with the circumferential grooves in the writing elements when both the said writing elements are in a retracted position in the housing, whereby said writing elements can then be rotated within the housing.

2,668,517
HYDRAULIC OIL WELL PUMP JACK
Chester R. Craft, St. Louis, Mo.
Application October 23, 1951, Serial No. 252,764
3 Claims. (Cl. 121—1)



1. In an oil well pump jack including a supporting base, a motor cylinder on the base adapted to be positioned with its axis in alignment with the axis of the well, an annular piston in the cylinder, a sleeve within the cylinder concentric therewith and packing means between outer periphery of the piston and the inner periphery of the cylinder, and between the inner periphery of the piston and the outer periphery of the sleeve, the bottom and top of the cylinder being apertured to permit the polish rod of a well pump to extend therethrough and project therefrom at both ends, means for supporting the polish rod on the piston above the upper end of the cylinder, hydraulic means for raising the piston.

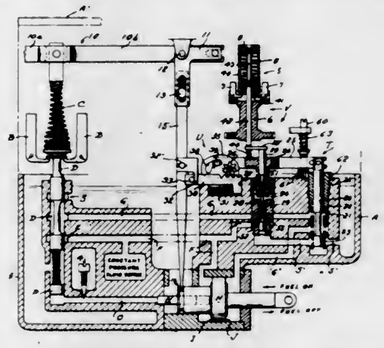
2,668,518
PNEUMATIC IMPACT TOOL
Clifford E. White, Belton, Tex.
Application December 8, 1952, Serial No. 324,787
8 Claims. (Cl. 121—30)



1. A pneumatic tool of the character described comprising an elongated hollow handle having a forward end and a rear end, a partition disposed in the hollow handle and spaced from the forward end thereof, a piston reciprocably mounted in the hollow handle between said partition and its forward end, a piston rod extending from said piston through the forward end of the handle, spring means urging the piston toward said partition, a normally closed valve mounted in said partition and closing a passage therethrough opening into an expansion chamber defined by the space between the piston and partition, a portion of said hollow handle between said partition and its rear end being adapted to be supplied with air under pressure through said rear end of the handle, means carried by said piston for engaging and displacing the valve to an open position as the piston approaches said partition for admitting air under pressure to the expansion chamber for displacing the piston and piston rod toward the forward end of the handle, said handle having vent ports therein opening to the atmosphere and located between said forward end and said partition and past which the piston travels in its forward movement whereby said expansion chamber is vented to the atmosphere as the piston approaches the forward end of the handle and the spring means thereof is loaded so that said spring means will propel the piston and piston rod rearwardly toward said partition, said valve resuming a closed position as the piston is moved away from said partition and being re-opened as the piston returns to a position adjacent the partition, and an impact receiving means supported by the handle including a tool head reciprocably supported beyond the forward end of the handle, and a part supporting the tool head and reciprocably mounted relatively to the handle and disposed to be engaged and forcibly projected by the piston rod on the forward stroke of the piston.

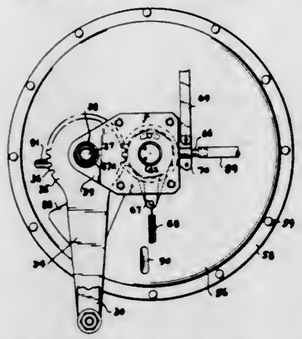
2,668,519
LOAD LIMITER FOR SPEED GOVERNORS
Floyd H. Sweet, Euclid, Ohio, assignor to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio
Application October 29, 1952, Serial No. 317,543
7 Claims. (Cl. 121—42)

1. In a hydraulic relay speed governor for engines, the governor having speed setting means acting through speed-change-responsive pilot valve means to cause engine-fuel-regulating movement of a servomotor, a load limiting valve between the pilot valve and a pressure chamber of the servomotor, which chamber receives fluid under control of the pilot valve to cause "fuel-on" movement of the servomotor, the load limiting valve including a port-closing and port-opening member operable to block flow of fluid to said chamber and to spill fluid from said chamber, a floating lever connected to said member to move it to said port-closing and port-opening positions, servomotor-connected means including a variable-fulcrum-establishing means for the lever for enabling such movement of the lever by the servomotor, an engine-speed-measuring means connected for operation by the engine through the governor and having an output element in the form of a valve plunger, a servo piston having fluid ports controlled solely by movement of the valve plunger in opposite directions to cause the piston to follow all move-



ments of the valve plunger, and another variable fulcrum for the lever operatingly connected for movement of the lever by the servo piston in the same plane as the lever is moved by the servomotor-connected means, whereby load limiting operation on the servomotor by the load limiting valve is a combined function of servomotor position and engine speed.

2,668,520
FLUID OPERATED MOTOR
Frank C. Best and Edward V. Best, Royal Oak, Mich.
Application December 23, 1949, Serial No. 134,792
5 Claims. (Cl. 121—44)



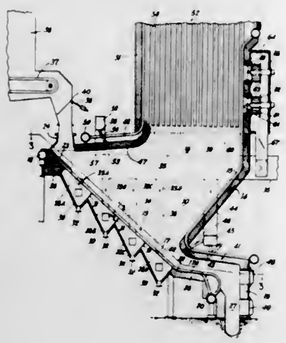
1. In a device of the class described, a housing; a wall-forming member in said housing extending radially thereof from the center of said housing to its periphery; a stationary shaft projecting through said housing, said housing being rotatably mounted on said shaft; a radially projected blade carried by said shaft, within said housing and fixedly mounted on said shaft; sealing members carried on the free end of said blade engaging the inner surface of said housing for effecting a seal therewith, said blade and said wall-forming member in said housing cooperating for dividing said housing into a pair of non-communicating compartments, said shaft having a pair of passages formed therein, each of said passages communicating with one of said compartments; a fluid delivery conduit; a ro-

tatable valve on said shaft operable for communicating one of said passages with the delivery conduit and simultaneously communicating the other of said passages with the atmosphere; a gear fixedly mounted on said housing exterior thereof concentric with said shaft; an elongated arm; a supporting plate fixedly mounted on said shaft and projecting outwardly from one side thereof; a pivot for pivotally mounting said arm adjacent one of its ends on said supporting plate; teeth formed on the pivoted end of said arm, meshing with the teeth on said gear.

2,668,521
HEARTH TYPE FURNACE

Henry W. Beecher, Seattle, Wash.; Blanche Cameron Beecher and Henry Ward Beecher, Jr., executors of said Henry W. Beecher, deceased

Application May 8, 1951, Serial No. 225,078
2 Claims. (Cl. 122—2)



1. Combustion apparatus comprising refractory walls defining the heat reflective sides of a furnace, a closely spaced row of fluid cooled tubes defining an inclined hearth in the lower portion of said furnace, means for introducing a controlled flow of combustion air upwardly between the tubes of said inclined hearth, means for delivering high moisture solid fuel to the upper end portion of said hearth, a fluid cooled tube extension of said hearth extending in a generally horizontal direction to an ash pit at the lower end of said furnace, a refractory arch spaced above and extending forwardly from said ash pit in a parallel direction to the upper end of said hearth tube extension, nozzles positioned in said arch for the introduction of overfire air into the lower end portion of said furnace, a refractory wall at the rear of said furnace merging with said arch and extended upwardly in a direction substantially perpendicular to the inclined tubes of said hearth, an arch-like refractory roof extending forwardly in a generally horizontal direction from a position spaced above the upper end portion of said hearth to a position transversely spaced from said rear wall to define a furnace gas outlet therebetween, a row of overfire air discharge nozzles projecting through said roof intermediate the length thereof, and burner means for delivering fluid fuel and combustion air to the furnace gas pass at a position upwardly spaced from said furnace outlet.

2,668,522
MOTOR GASOLINE ADDITIVE

John E. Hickok, Berkeley Heights, and John A. Ryan, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

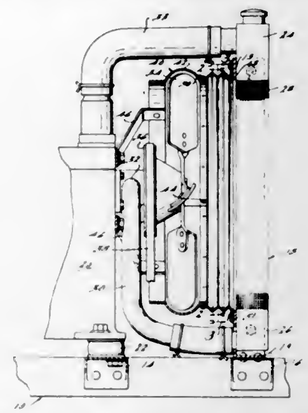
No Drawing. Application November 29, 1951, Serial No. 258,992
10 Claims. (Cl. 123—1)

9. The method of operating an internal combustion engine in moist, cool temperature conditions which comprises burning a gasoline fuel in the said engine containing about 0.5% of solvent oil, 1.9% of dimethyl carbinol of at least 98% purity and about 0.1% of diisopropyl ether, said solvent oil consisting of a liquid hydrocarbon mixture having a kauri-butanol solvent power above about 20, a 50% distillation point above 350° F., at 10 mm. mercury pressure, a Saybolt viscosity at 100° F., not above 450 seconds, and an API gravity of about 18 to 28°.

2,668,523
FAN SHROUD

Ernest P. Lamb, Grosse Pointe Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application December 11, 1952, Serial No. 325,490
6 Claims. (Cl. 123—41.49)



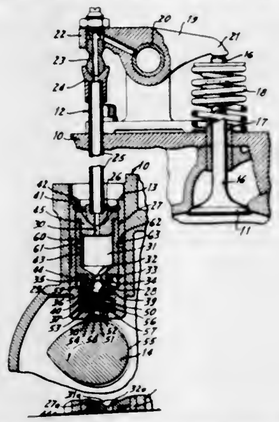
1. A power unit including an internal combustion engine rockably movable as an incident to its operation, a fan driven by the engine and movable therewith, a stationary heat exchanger unit in fluid flow communication with the engine and a shroud for the fan comprising a ring element mounted on said engine in concentric relation to said fan and a flexible casing defining an air passage and having one end secured to said ring element and the other end secured to said radiator.

2,668,524
HYDRAULIC VALVE LIFTER

Glenn T. Randol, Mountain Lake Park, Md.

Application May 4, 1951, Serial No. 224,485
15 Claims. (Cl. 123—90)

7. A hydraulic valve lifter comprising a pair of relatively movable members defining a chamber therebetween, a source of fluid, a normally open valve port in one of said members establishing communication between said source of fluid and said chamber, a valve member movable to close said port, an actuating member movable with respect to said valve member, means on said valve member frictionally engaging said actuating member to couple said actuating member and said valve member for conjoint movement, and means for moving said actuating member to move said valve member to close said port, said valve member and said actuating member defining a dashpot chamber therebetween, one of

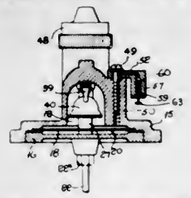


said last-named members having bores therein establishing communication between said first-named chamber and said dashpot chamber, the fluid in said dashpot chamber serving to assist in coupling said actuating member and said valve member for conjoint movement upon movement of said member.

2,668,525
LUBRICATING DEVICE FOR INTERNAL-COMBUSTION ENGINES

Clayton B. Pierce, Port Chester, N. Y., assignor to Emerol Manufacturing Co., Inc., New York, N. Y., a corporation of Illinois

Application June 18, 1952, Serial No. 294,141
9 Claims. (Cl. 123—196)

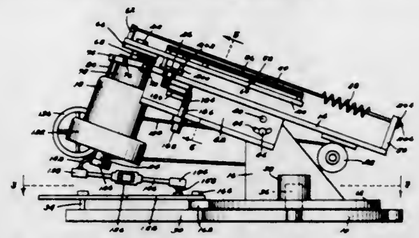


1. In a lubricating device including a vacuum actuated diaphragm and feed valve in the interior of the device for feeding lubricant to the cylinders of an internal combustion engine in accordance with the vacuum produced by the operation of said engine, means to dissipate any residual vacuum in the interior of the device when the engine ceases operation, said means comprising an air inlet member having an inlet opening formed therethrough which communicates with the interior of the device, and an air valve in said opening, said air valve being adapted to be actuated into closing position by the action of the operating engine and to be released into opening position when the engine ceases operation whereby said air inlet opening is cut off from the outside atmosphere during engine operation and is restored thereto when the engine stops operation, said air inlet member including a vertical cylinder in which said air valve operates, said vertical cylinder communicating with the interior of the device so as to be subjected to the vacuum conditions therein, one end of said cylinder communicating with the atmosphere so that said valve may be actuated by the vacuum of the interior of the device to closing position, said air valve being actuated by gravity to uncover said opening when the vacuum produced by the operating engine ceases so as to permit air to be drawn through said inlet opening and into the interior of the device.

2,668,526
TARGET TRAP WITH AUTOMATICALLY VARIED THROWING ANGLE

Clarence L. Woolsey, Randall, Kans.

Application July 12, 1952, Serial No. 298,547
9 Claims. (Cl. 124—9)

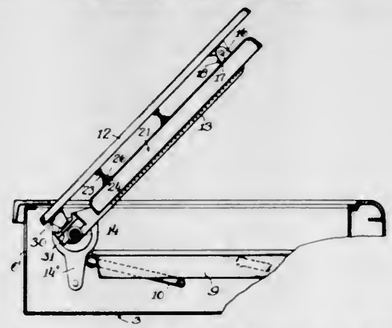


1. A target throwing machine comprising a turntable, a throwing arm pivotally mounted on the turntable, a base on which the turntable is mounted, power means carried by the turntable and coacting with the base for continuously reciprocating the turntable in a horizontal plane and about a center, a latch for retaining said arm in a cocked position, manually actuated means for actuating the latch to release the arm, means for actuating the arm with a snap action for discharging a target, and means for resetting the arm.

2,668,527
BROILER REFLECTOR SHIELD

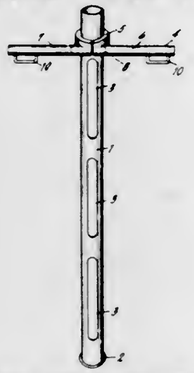
John E. Chambers, Shelbyville, Ind., assignor to Chambers Corporation, a corporation of Indiana

Application October 18, 1948, Serial No. 55,093
2 Claims. (Cl. 126—39)



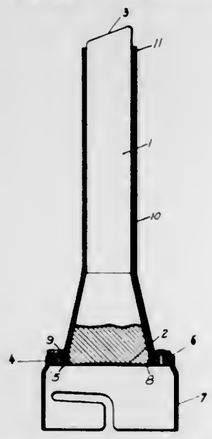
2. In combination with a broiler, a gas burner positioned adjacent the top of said broiler, a griddle positioned above said burner, a reflector shield fixed between said burner and said griddle in predetermined spaced relationship, said shield overlying and surrounding said burner and being apertured to distribute the heat directed towards it by said burner in predetermined proportions between said broiler and said griddle, and means for adjusting the vertical position of said griddle relative to said reflector shield to facilitate control of the quantity of heat applied to said griddle while said broiler is being heated.

2,668,528
VETERINARY MEDICAL INSTRUMENT
Edwin Jacob Frick, Manhattan, Kans.
Application November 6, 1951, Serial No. 254,995
2 Claims. (Cl. 128—3)



1. A veterinary medical and surgical instrument comprising, a rigid thin walled tube between 15'' and 25'' in length and between 1'' and 1½'' in diameter, the inner end of said tube being turned outwardly in a smoothly rounded bead, one side of said tube having a longitudinally extending slot formed therein, a split ring adjustably mounted around the outer end of said tube and having an arm extending from one side of the split in the ring, a second arm rotatably supported in the other side of said ring and extending oppositely from said first arm, said second arm having a threaded portion engageable in the first side of said split ring whereby said second arm constitutes a clamping element for clamping said ring and said arms to said tube, and bit strap eyelets on the outer ends of said arms.

2,668,529
DEVICE FOR TRANSMITTING ULTRASOUND ENERGY
Theodor F. Hüter, Erlangen, Germany
Application April 26, 1949, Serial No. 89,681
Claims priority, application Germany October 1, 1948
12 Claims. (Cl. 128—24)



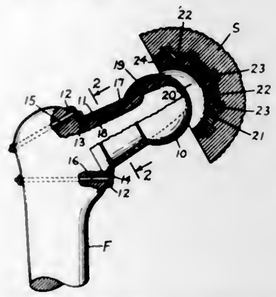
1. In a device for transmitting ultrasonic energy from the transmitting plane of an ultrasonic generator to a loading medium into which ultrasonic energy is to be irradiated, a substantially rod-shaped solid, a tubular covering jacket surrounding said solid, and liquid-tight means for supporting said jacket at both ends with respect to said solid, the free end of said solid forming the output end protruding from said jacket.

2,668,530
VIBRATION BED
John A. Tackaberry, Miami, Fla.
Application March 17, 1952, Serial No. 276,977
2 Claims. (Cl. 128—33)



1. A bed vibrator comprising a unit of the dimensions of an ordinary box spring and adapted to be substituted for a box spring in the well of an ordinary bed frame, said unit comprising upper and lower frames of substantially the same size, the upper frame carrying a platform for a mattress, resilient supports inseparably connecting the two frames, a motor suspended from the mattress supporting platform of the upper frame, means operated by said motor for imparting substantially vertical vibrations to said upper frame, bed supporting structure of substantially L-shaped angular cross section and angular, L-shaped pads of cushioning material beneath the bottom frame and interposed between that frame and said supporting structure of the bed.

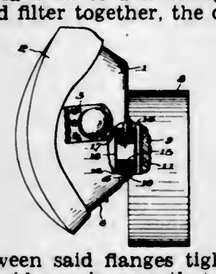
2,668,531
PROSTHESIS FOR HIP JOINT
Edward J. Haboush, Brooklyn, N. Y.
Application February 15, 1952, Serial No. 271,684
10 Claims. (Cl. 128—92)



1. A hip-joint prosthesis comprising a hollow ball member of corrosion-resistant metal, a hollow tapered sleeve extending from one side of said ball member to receive the reshaped head and neck of a femur, said sleeve having its smaller end fixed to said ball member, a socket member of corrosion-resistant metal fitted to said ball member for free rocking movement relative thereto, and means forming recesses on the back of said socket member to secure said socket member in position with respect to the pelvic arch.

2,668,532
RESPIRATOR WITH INTERCHANGEABLE FILTERS
Robert B. Evans, Plum Township, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 4, 1951, Serial No. 219,274
8 Claims. (Cl. 128—146)

1. A respirator comprising a face-piece provided in its wall with an air inlet opening, an air filter provided in its wall with an air outlet opening aligned with said inlet, a flexible grommet extending through both openings and having end flanges normally overlying the inner surfaces of said walls to detachably connect the face-piece and filter together, the outside of the



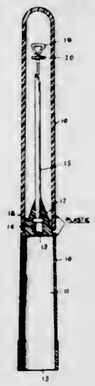
grommet between said flanges tightly engaging the sides of said openings so that the grommet forms a sealed air passage connecting the filter with the face-piece, and a rigid tube removably inserted in the grommet to prevent it from being collapsed and withdrawn from either of said openings.

2,668,533
MEDICAL APPARATUS
Robert P. Evans, Kenmore, N. Y., assignor to Sterilon Corporation, Buffalo, N. Y.
Application February 12, 1952, Serial No. 271,170
10 Claims. (Cl. 128—214)



1. In an apparatus for intravenous administration of fluids, a dispensing fitting adapted at one end for connection to a stopper of a bottle containing fluid to be administered and adapted for connection to an administration needle at its other end, said fitting comprising an outlet member and a needle supply conduit member including a drip meter, said conduit member being adapted at its outer end for connection to said needle, said outlet member having a cylindrical body portion and a reduced diameter cylindrical tip portion and separate air inlet and fluid outlet passageways passing longitudinally through said outlet member, said tip portion being adapted for insertion into an opening of the bottle stopper, said outlet passageway being outwardly tapered at the body portion end thereof to receive the inner end of said conduit member and being welded thereto, said inlet passageway comprising a cylindrical bore at the body portion end thereof and a reduced bore throughout the remainder thereof, a plug in said cylindrical bore, said plug being formed with a frustro-conical valve seat at the inner end thereof and a frustro-conical projection at the outer end thereof and an axial bore therethrough, said plug being welded in place in said cylindrical bore and dimensioned and located to divide said cylindrical bore into a check valve chamber at the inner end thereof and a filter chamber at the outer end thereof, a shoulder in said cylindrical bore bearing against the inner end of said plug to determine the location thereof, a ball valve member in said valve chamber in said cylindrical bore between said plug and said reduced bore, said ball being of smaller diameter than said cylindrical bore but of larger diameter than said reduced bore and said axial bore, and a fibrous air filter filling said filter chamber.

2,668,534
PLASTIC INJECTION DEVICE
George Barradas, North Tarrytown, N. Y., and Roger H. Motten, Jr., Darien, Conn., assignors to PM Industries, Incorporated, Stamford, Conn.
Application June 3, 1952, Serial No. 291,486
2 Claims. (Cl. 128—216)

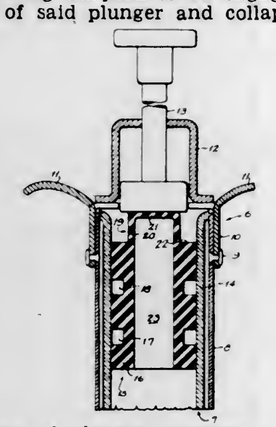


1. A hypodermic injection device comprising a transparent plastic container, a diaphragm dividing said container into two chambers, one adapted to hold a liquid, said diaphragm having a thin portion between two thick portions, a boss in said container near one end thereof, a needle extending through one end of said container and terminating in said boss, a seat in said container engaging the boss to hold it against the adjacent end of the container, a stiff wire stylet inserted in the lumen of the needle, said wire being longer than the needle by an amount greater than the distance from the lower end of the boss of the needle to the diaphragm, the needle when assembled with the wire and the transparent plastic container being covered by a plastic hood, said hood being held in position by frictional contact with the thickened portion of the body.

2,668,535
HYPODERMIC SYRINGE
Niels Bjorn Jorgensen, Los Angeles, Calif.
Application August 9, 1952, Serial No. 303,514
2 Claims. (Cl. 128—218)

1. A component for a hypodermic syringe having a plunger, a piston, and a cylinder in which said piston is operable: said component consisting in a medicant ampule including a barrel adapted to function as said cylinder and a stopper in one end of said barrel adapted to function as said piston, said stopper being integrally molded of a resilient material having the char-

acteristics of soft rubber, and including an annular relatively thick walled skirt received in and in sealing engagement with the wall of said barrel, said skirt having an axial cavity, open at its inner end, and a bulb on the outer end of said skirt, having a cavity formed as a continuation of said skirt cavity, the outer end of said skirt defining, at the base of said bulb, an annular external shoulder extending from said bulb radially outwardly to the lateral face of said skirt, said bulb being adapted to be engaged by the inner end of said plunger and collapsed in an



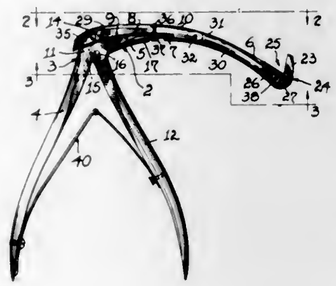
initial range of plunger movement, while the skirt remains fixed in the cylinder, and being form regaining after plunger pressure is released, whereby to effect a suction for drawing back into the syringe a quantity of fluid equal to that discharged therefrom in the collapsing of the bulb, said bulb having a wall thickness only a fraction of that of said skirt, having an outer diameter equal to or less than the diameter of said skirt cavity, and being adapted, during said collapsing, to be displaced into said skirt cavity so that said plunger may directly engage said annular shoulder for advancing said stopper in said barrel.

2,668,536
INSTRUMENT FOR OPERATING ON MITRAL VALVES
John R. Farries and John P. Gigoux, Portland, Oreg.
Application November 14, 1952, Serial No. 320,517
4 Claims. (Cl. 128—305)



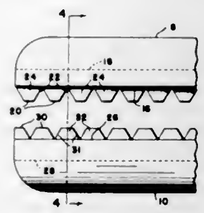
1. An instrument for operating on the mitral valve of the heart comprising a curved shank having one flat side adapted to engage the inner side of the index finger and palm and extend toward the finger tip, said shank having a pair of slots formed in the finger tip end thereof normal to each other, a knife mounted in said shank capable of occupying either of said slots, and a control wire extending through said shank attached to said knife whereby said knife may be selectively held in either of said slots.

2,668,537
SURGICAL INSTRUMENT
Karl A. Kapp, Cleveland, Ohio
Application May 16, 1952, Serial No. 288,090
5 Claims. (Cl. 128—318)



5. In a surgical scissor-like instrument an elongated body member having integrally extended from its one end an upwardly extended cutting blade forming said body member with an openly extended hook-shaped locating end, a second cutting blade pivotally mounted on said body member in proximity to said first cutting blade for scissor-like cutting action therewith, and actuating means for pivoting the second cutting blade, said actuating means being slidably supported and guided by said body member in angularly related planes and pivotally connected to the second cutting blade in offset relation with respect to its pivot axis.

2,668,538
SURGICAL CLAMPING MEANS
Elvin E. Baker, Havertown, Pa., assignor to George P. Pilling & Son Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 30, 1952, Serial No. 268,983
11 Claims. (Cl. 128—321)



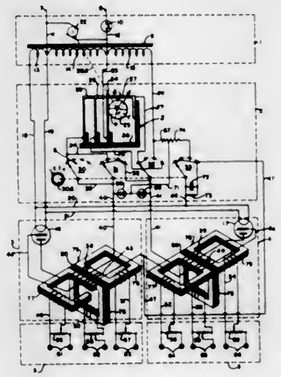
1. Surgical clamping means comprising a pair of jaws mounted for movement towards and from each other, each of said jaws comprising at least one longitudinal row of teeth and at least one longitudinal groove located to receive a row of teeth of the opposite jaw, the rows of teeth on the respective jaws being laterally disposed relative to each other.

2,668,539
ANIMAL DELIVERY INSTRUMENT
Thomas A. Dermody and John M. Dermody, Breda, Iowa
Application March 9, 1953, Serial No. 341,004
4 Claims. (Cl. 128—361)



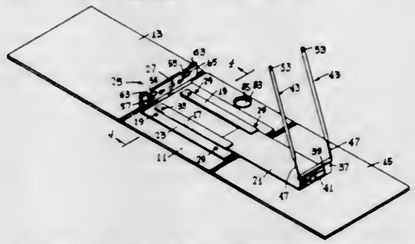
1. In an animal delivery instrument, a spring wire loop having shank portions that extend from said loop adjacent to each other, a retracted spring embracing the loop shank portions of said spring wire loop, and a handle secured to both said spring and said spring wire loop shank portions at their ends most remote from said spring wire loop.

2,668,540
MEANS FOR ELECTRICAL THERAPY
William J. Browner, San Francisco, Calif., assignor to Relaxacizor, Inc., Los Angeles, Calif., a corporation of California
Application September 19, 1949, Serial No. 116,552
13 Claims. (Cl. 128—423)



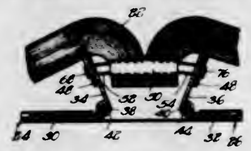
12. In an electrical device for exercising human musculature in flexion-extension relation: a pair of output circuits having outlet means for connecting one of said circuits in series with a flexor muscle and the other of said circuits in series with an extensor muscle opposite said flexor muscle, oscillator means for generating, when energized, musculature contracting currents in said output circuits, means adapted to connect said oscillator means to a source of electrical potential, switch means connected to said oscillator means and being operative to effect delivery of musculature contracting currents from said oscillator means alternately to said output circuits and power driven means connected to said switch means for continuously operating said switch means whereby said flexor muscle and said extensor muscle are alternately contracted by said contracting currents to exercise the musculature.

2,668,541
LOOSE-LEAF BINDER
Richard Anglin, Bridgeport, Conn.
Application July 2, 1952, Serial No. 296,782
2 Claims. (Cl. 129—8)



1. A loose leaf binder comprising a back; two covers hinged to the back for opening and closing movement; a slide mounted on said back for translatory movement between a position wholly overlying said back and an extended position partially overlying one of said covers when the latter is opened parallel to said back; telescopic, free-ended, sheet impaling posts including separable sections hinged to the outermost end of said slide; means adjacent the hinge connection of said other cover for receiving and locking the unhinged ends of said posts, the mounting for said slide having interfering portions preventing separation of said slide from said back, and said telescopic posts having an expanded length sufficient to prevent separation of their sections when said slide is fully extended over said cover and said unhinged post ends are held by said locking means; and means for releasably connecting the sections of the telescopic posts in predetermined relation adjacent the unhinged ends when desired for concerted movement away from said hinged sections to a separated position when released from said locking means to provide for introduction or removal of a sheet from the central portion of a bound pack of sheets.

2,668,542
LOOSE-LEAF BINDER
Raymond L. McVean, River Forest, Ill.
Application March 16, 1950, Serial No. 150,031
5 Claims. (Cl. 129—24)

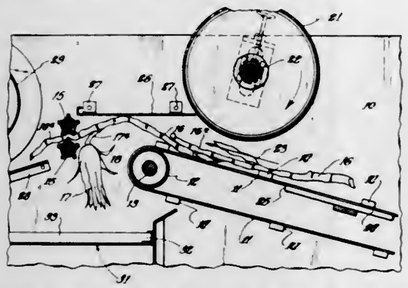


1. A binder post comprising a cylinder, a U-shaped link including a pair of plate members and a bight portion joining said plate members at one end thereof, said plate members being telescopically and slidably disposed within said cylinder, and means formed on said cylinder and one of said plate members to limit the distance that the link can be withdrawn from the cylinder.

2,668,543
CORN HUSKING MACHINE HAVING COMBINATION PICKING AND HUSKING ROLLS
Glen W. Stoddard, Grant Township, Tama County, Iowa
Application July 16, 1949, Serial No. 105,109
1 Claim. (Cl. 130—5)

In a corn husking machine, in combination, a conveyor comprising a pair of rolls and an endless

belt extending therebetween; a pair of relatively long picking and husking rolls each having a diameter of substantially two and one-quarter inches and provided with a plurality of protruding longitudinal ribs extending uninterruptedly along the entire length of said rolls, with each of the ribs in each roll being widely spaced from the other ribs thereon and with the ribs of one roll alternately positioned and in substantially spaced feeding relationship with the ribs of the other; said rolls being rotatably mounted in horizontal position parallel with one conveyor roll and with one of the husking rolls positioned over the other and an open, unobstructed gap between said



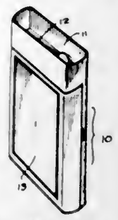
husking rolls and the conveyor extending under the picking and husking rolls and providing a relatively large open space around said rolls as the ears of corn on said stalks drop through the gap and are supported only by their stems as the stalks are drawn into the bite of said rolls, thereby causing the ears to swing in an upward, arcuate path of movement around the lowermost husking roll as a rib of the upper roll engages the butt of the ear in a direction substantially normal to the surface thereof, and delivers a high velocity impact blow against the outside of the husk at the base of the ear to sever the ear from the stem within the husk.

2,668,544
CIGARETTE MOUTHPIECE MATERIAL
Glenn Davidson, Aurora, Ill.
Application April 30, 1947, Serial No. 744,925
2 Claims. (Cl. 131—10)



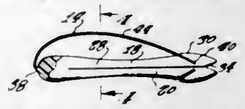
1. A filter material for a smoking article, comprising a series of individual sheets in superposed relation and of greater length than the length of a conventional cigarette and of a width corresponding substantially to the circumferential dimension of a cigarette, the longitudinal axes of each of the sheets being parallel to each other and extending in the same direction as the longitudinal axis of all of said sheets, said sheets being adhered to maintain their longitudinal edges parallel, the adhered areas being sufficiently restricted in size and number to permit the necessary longitudinal smoke passageways between the sheets, the superposed relation of the sheets resulting in the provision of a plurality of shallow passages longitudinally of the material, said material at one end thereof being in coil form having an axis transversely of its longitudinal axis, and portions thereof at the other end on being uncoiled from said coil form assuming a position in a second coiled form with longitudinal edges abutted, wherein the axis of the coil is parallel to the longitudinal axis of each of the sheets, the portions intermediate said coils being flat.

2,668,545
POCKET CIGARETTE-MAKING DEVICE
George Burnstein, Norristown, Pa.
Application October 10, 1949, Serial No. 120,430
7 Claims. (Cl. 131—70)



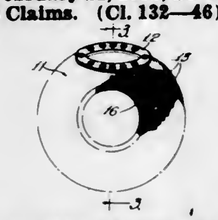
4. In a cigarette-forming device, a hollow pocket-size casing having at one side thereof an opening adapted to provide access to the interior of the casing and at one end thereof an exteriorly disposed transversely extending tobacco-receiving compartment, said casing end forming the bottom wall of said compartment, a tubular member extending from said compartment from said bottom wall thereof into the interior of said casing, said member being adapted to receive thereon in tubular extension thereof a tubular paper wrapper for a cigarette, a closure member for said casing operating having means thereon adapted to operate conjointly with said tubular member to clamp one end of said paper wrapper upon said tubular member, and means fixedly associated with said casing at the end thereof remote from said tubular member, said means being positioned for sealing the proximate end of said paper wrapper against escape of tobacco therefrom during an operation of tamping tobacco into said cigarette paper by way of said tubular member.

2,668,546
HAIR CURLER
Aram Teopilian, Brooklyn, N. Y.
Application September 25, 1952, Serial No. 311,369
1 Claim. (Cl. 132—42)



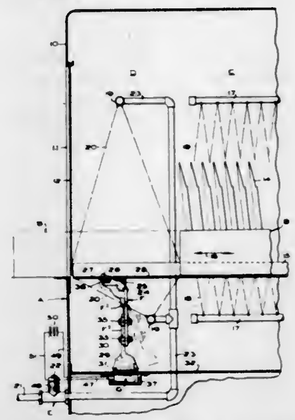
A hair curler comprising: an integral main body element and curl retaining element formed entirely from polyethylene; said main body element including a base member and a pair of leg members forming a hair-retaining channel; said leg members being of substantially solid cross section, and each having an elongated slot extending at an acute angle to the principal axis thereof into the body of the same; said slot having a substantial area; said curl retaining element being of flexible elongated configuration and having a substantially rectangular cross section corresponding to the area of said slot; said curl retaining element being bendable to be inserted into either of said slots, the end of said curl retaining element being thereby disposed parallel to the principal axis of said slot at the point of entry into said slot.

2,668,547
HAIRDO ACCESSORY
Rachel E. Wille, Franklin Park, Ill.
Application February 21, 1952, Serial No. 272,819
3 Claims. (Cl. 132—46)



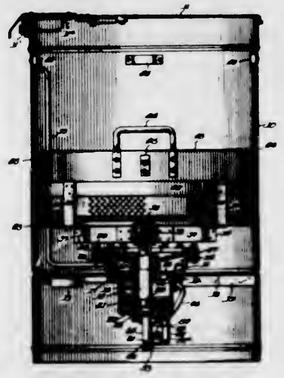
1. A hairdo accessory for the high placement retention of hair strands which comprises a bell-shaped structure of pliable filaments consisting of woven inelastic filament fibres arranged in curved strands and cross woven into a loose moderately shiftable mesh which comprises a principal flange portion and converging therefrom a constricted tubular portion, and elastic circumferential filaments interwoven into said tubular portion so as to exert a yieldable embracing force thereabout for retaining said accessory on a gathered hair strand under alternative conditions of relative placement.

2,668,548
MAGNETIC MECHANISM FOR CONTROLLING FLOW OF RINSE WATER IN DISHWASHING MACHINES
George J. Federighi and Tore H. Noren, San Francisco, Calif.
Application February 23, 1952, Serial No. 273,076
1 Claim. (Cl. 134—46)



In a dish washing machine, a rinsing compartment, a rail extending longitudinally through said compartment and adapted to support baskets having dishes therein, means forming an opening in said rail, a spray nozzle mounted above said rail and adapted to direct fluid downwardly toward said rail, a journal pin positioned below and attached to said rail, a trip pivotally mounted on said pin and comprising a normally vertically extending arm portion depending from said pin, and a second nose-forming portion rigidly connected at an angle to the first portion and normally extending upwardly through said rail opening and adapted to be engaged by a basket traveling on said rail, the first mentioned portion having a magnet secured therein, said compartment comprising a floor and upstanding side walls, means forming an opening in said floor, a plate formed of a non-magnetic material closing said opening, a switch positioned below said opening and attached to said floor and comprising a fixed contact and a movable contact, said movable contact having an armature attached thereto, said armature being attracted toward said magnet to open said switch when the first mentioned portion is vertically positioned, means in said switch normally urging said movable contact toward said fixed contact to close said switch, a supply pipe connected to said nozzle for supplying fluid thereto, a magnetic valve positioned in said pipe for controlling the flow of fluid therethrough, said valve being operable upon closing of said switch contacts, said switch contacts closing upon pivotal movement of the first mentioned portion out of its normal vertical position when the second mentioned portion is engaged by a basket.

2,668,549
AUTOMATIC PARTS WASHER
William A. Lebus, Chicago, Ill., assignor to The Protectoseal Company, Chicago, Ill., a corporation of Illinois
Application April 28, 1949, Serial No. 90,080
11 Claims. (Cl. 134—56)

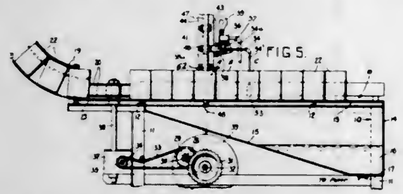


7. A parts cleaning device including in combination a container for volatile cleaning fluids comprising a fused safety cover for said container, a parts receiving basket removably arranged within said container automatically controlled air motor means for reciprocatingly moving said parts receiving basket within said container, said air motor means comprising a cylinder mounted on and arranged below said container, a cylinder head for said cylinder detachably affixed to the bottom of said container, said air motor means also including a vertically disposed shaft passing through the bottom of said container and reciprocatingly movable with respect thereto and journaled and sealed by said cylinder head, said cylinder head comprising an integrally formed annular flaring wall, flexible means secured to said shaft and to said annular flaring wall for sealably enclosing with said cylinder head the area of said container immediately surrounding said shaft at the point of entrance thereof into said container.

2,668,550
APPARATUS FOR AUTOMATICALLY OPENING CANS, DISPENSING THEIR CONTENTS, AND FLUSHING THE CANS
Harry Burge, Delphos, Ohio
Application December 29, 1950, Serial No. 203,308
13 Claims. (Cl. 134—62)

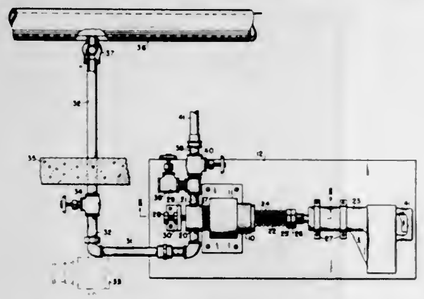
6. Automatic can-opening apparatus comprising: a frame including a can holder, means for

successively feeding filled cans to said holder, a single reciprocable cutter carried by said frame, and means for moving said cutter into engage-



ment with a can positioned on said holder to cause the cutter to penetrate successively both top and bottom end walls of a can to form axial openings therein.

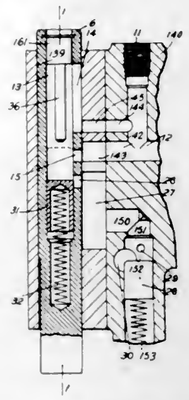
2,668,551
ADJUSTABLE PIPE CLEANER
George F. Clement, Penn Township, Allegheny County, Pa.
Application April 11, 1952, Serial No. 281,865
11 Claims. (Cl. 134—169)



1. A pipe cleaner comprising a base having an opening therethrough and adaptable at one end for connection to the pipe to be cleaned, a diaphragm disposed across the opening at an internal point, a rod member engageable with the other end of the opening and adapted for axial movement, means for imparting a series of blows to the rod, and adjusting means to vary the maximum degree of penetration of the rod member into the opening.

2,668,552
VARIABLE-RATIO POWER TRANSMISSION APPARATUS
Howard F. Hobbs, Leamington Spa, England, assignor to Hobbs Transmission Limited, Leamington Spa, England, a British company
Application May 25, 1950, Serial No. 164,112
9 Claims. (Cl. 137—115)

1. A pressure regulating selector device suitable for power transmission apparatus of the character described having a valve housing member provided with a bore, said housing member having at least one fluid entry duct opening to said bore and at least two fluid delivery ports leading from said bore and located at different distances along the bore, a reciprocable selector valve member located in said bore, at least two fluid relief openings in at least one of said members, said selector valve member having openings for effecting communication between the entry duct and said delivery ports at different moments corresponding to different positions of said selector valve member in the bore and between said entry duct and said relief openings, a relief valve chamber, a relief valve piston member in said chamber and movable across both said relief openings, spring means urging said relief valve piston member towards its position of closing said relief openings, said relief valve piston member and said chamber being relatively movable to



vary the length of said chamber according to which of said relief openings is opened by said relief valve piston member, and thus to vary the pressure of said spring means according to the different positions of said selector valve member thereby varying the pressure of the fluid at the delivery ports according to the different positions of said selector valve member.

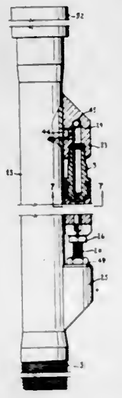
2,668,553
FLOW VALVE
James H. Howard and Paul R. Mills, Houston, Tex., assignors to Camco, Incorporated, Houston, Tex., a corporation of Texas
Application September 20, 1948, Serial No. 50,038
5 Claims. (Cl. 137—155)



1. A flow valve comprising, a housing, said housing providing a valve seat and a flow passage in one end thereof extending through said valve seat, a pressurized bellows connected at one end to the other end of the housing, an extension on the other end of said bellows, a valve stem connected at one end to said extension and having a seating element on the other end thereof to seat upon said valve seat to close said flow passage, and means including the pressure of said bellows urging said valve stem to closed position, said housing providing port means in

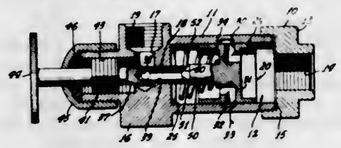
the wall thereof to admit pressure fluid into said housing between said valve seat and said bellows, at least one of said extension and said housing having a sealing means therein of the O-ring type accessible from either end of said housing to establish sealing contact therebetween on the bellows side of said port means, and a fluid pressure check valve disposed in the housing wall on the bellows side of said sealing means and arranged to relieve trapped fluid pressure on the exterior surface of said bellows.

2,668,554
DIFFERENTIAL FLOW VALVE FOR WELLS
Walter H. Seyffert, Jr., Houston, Tex., assignor to Camco, Incorporated
Application February 11, 1949, Serial No. 75,863
2 Claims. (Cl. 137—155)



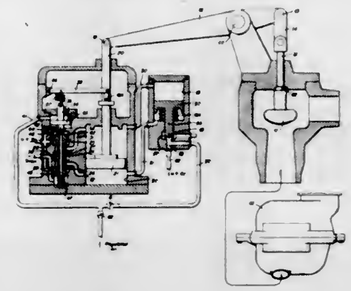
1. In a well flowing assembly the combination of, a valve comprising a successively interconnected bored seat element, sleeve, and bored closure piece, a stem having a seating unit at one end adapted to seat in said seat element and a shaft at the other end adapted to slide in said closure piece bore, adjustment means on said stem, stop means in said sleeve, resilient means adjustably confined between said stop means and adjustment means, orifice means through said sleeve wall, a mandrel, a plug thereon adapted to receive said seat element, and a passageway through said plug between the interior of said mandrel and said seat element bore and a check ball in said passageway, and a bar across said passageway to prevent the check ball from being blown into said mandrel.

2,668,555
EXCESS FLOW CUTOFF VALVE WITH ADJUSTABLE VALVE SEAT
Albert F. Bartolat, Gardena, Calif.
Application April 7, 1951, Serial No. 219,805
8 Claims. (Cl. 137—498)



1. A flow regulating device of the character described, comprising: a valve casing forming a cylindrical valve chamber with an inlet port and an outlet port, said chamber having an inner recess between said ports; a piston in said chamber for movement between said ports across said recess, said piston having a passage from the inlet side of the piston to a peripheral point of the piston and a passage from the outlet side of the piston to a second peripheral point of the piston spaced from the first peripheral point, said peripheral points being positioned for simultaneous communication with said recess during the movement of the piston whereby the two passages and the recess constitute a flow passage between said two portions of the chamber with the flow capacity of the passage controlled by the position of the piston relative to said recess; yielding means urging said piston toward a position on the inlet side of said recess to cut off said flow passage; a valve responsive to said piston to cut off flow to said outlet port at a position of the piston at which said flow passage is open; and adjustable means for varying the position of the piston at which said valve cuts off said outlet port.

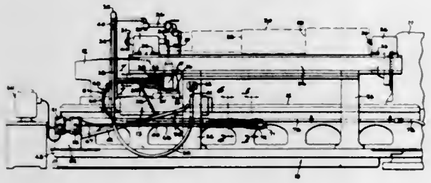
2,668,556
TURBINE APPARATUS
Frank A. Meyer, Sharon Hill, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 9, 1949, Serial No. 126,329
2 Claims. (Cl. 137—656)



1. The combination, with a prime mover motive fluid admission valve having a stop limiting its wide open position and a servo-motor having its operating piston connected through lever and link mechanism to the admission valve, said servo-motor including a relay movable in response to controlling pressure supplied by a passage such that a decrease in controlling pressure results in movement of the relay for movement of the operating piston to open the admission valve, of apparatus effective, with the admission valve stopped in wide open position, to limit the motive fluid pressure differential applied to the operating piston, in the admission valve opening direction, to limit the stresses applied by the latter to the lever and link mechanism; said apparatus comprising variable pressure developing means including an element disposed in flow restricting relation with a fluid escape port to establish a variable pressure, a passage including a check valve for supplying liquid under such variable pressure from the variable pressure developing means to the controlling pressure passage when such variable pressure is higher than the controlling pressure, said variable pressure developing means further including a pressure-limiting piston operatively

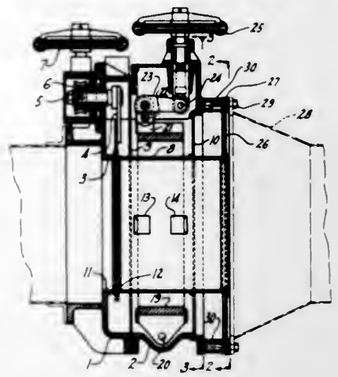
connected to said element and a spring, said pressure-limiting piston being operable to exert force on said element in a direction to effect an increase in such variable pressure, and said spring exerting force on the pressure-limiting piston in the opposite direction to reduce the variable pressure, and passages for applying the pressures present at opposite sides of the operating piston, respectively, to opposite sides of the pressure-limiting piston, one of the last-named passages being arranged to transmit the pressure urging said operating piston in the valve opening direction to said pressure limiting piston in opposition to the force of said spring, whereby, when the pressure differential applied to the operating piston to open the admission valve exceeds a predetermined value, with the admission valve stopped in wide open position, the pressure-limiting piston is moved thereby against the force of the spring to increase the pressure developed by the variable pressure developing means to exceed the controlling pressure and act on the relay to move the latter in a direction to reduce the pressure differential applied to the operating piston.

2,668,557
CONDUIT SYSTEM FOR MACHINE TOOLS
William G. Hoelscher, Cincinnati, Ohio, assignor to The American Tool Works Co., Cincinnati, Ohio, a corporation of Ohio
Application March 21, 1950, Serial No. 151,021
5 Claims. (Cl. 138—61)



1. A conduit system comprising, a plurality of pliable conduits, a flat normally straight spring substantially coextensive with the conduits, the conduits providing a bundle in assembly with the flat spring on one side thereof, a plurality of clamping elements disposed at spaced intervals longitudinally of the bundled conduits and spring, each of the clamping elements constituting a pair of blocks of substantial length extending transversely of the bundled conduits and spring, one of the blocks of each clamping element extending across and being in contact with the flat spring and being secured permanently thereto, the other of said blocks being detachably secured to the first, the said blocks having complementary recesses adapted in assembly to receive the conduits in clamped engagement against the flat spring, the assembled spring and conduit bundle being doubled over to provide a flexible U-shaped rolling loop having an upper and lower limb, an elongated horizontal support member adapted to sustain the lower of said limbs, said clamping elements being adapted to seat upon the support member and arranged to stabilize the loop in vertical position with respect to the support member, the end of said lower limb being connected to a stationary fitting mounted upon the support member, the end of said upper limb being adapted to be connected to a horizontally movable element located above the support member whereby the rolling loop provides a conductor extending from the fitting to the movable element.

2,668,558
GOGGLE VALVE
Andrew Bowland, Pittsburgh, Pa., assignor to William M. Bailey Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 21, 1950, Serial No. 150,907
2 Claims. (Cl. 138—94.5)

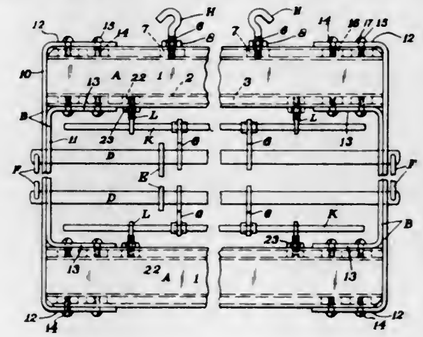


1. In a goggle valve mechanism, a valve housing having a flow passage, a goggle valve movable to control the flow in said passage, a clamping ring forming a portion of said passage mounted for movement in an axial direction for engaging said goggle valve, said clamping ring constituting a hollow cylinder having a pair of diaphragm plates by which it is centered in the flow passage, a lever engaging said clamping ring for subjecting it to axial movement by flexing said diaphragm plates, and a third diaphragm plate mounted on one end of said clamping ring having a flange ring for receiving bolts for clamping the said plate to a gas main and to the valve housing in spaced relation from the latter, said connecting bolts having spacer spools thereabout to provide for the rigid clamping of the third-named diaphragm plate with the housing wall and permit circulation of cooling air between said third diaphragm plate and the next adjacent plate.

2. In a goggle valve mechanism, a valve housing having a flow passage, a goggle valve movable to control the flow in said passage, a clamping ring forming a portion of said passage mounted for movement in an axial direction for engaging said goggle valve, said clamping ring constituting a hollow cylinder having a plurality of diaphragm plates by which it is centered in the flow passage, and a lever engaging said clamping ring for subjecting it to axial movement by flexing said diaphragm plates, a third diaphragm plate adjacent one of said clamping ring plates, said third plate having means for attachment to a gas main, said means including angularly spaced bolts and spacer spools on said bolts to space the diaphragm plate from the clamping ring diaphragm plate to provide for the circulation of air through said spools and between said plates.

2,668,559
LOOM HARNESS HEDDLE FRAME
Bernard T. Leveque, Wenham, Mass., assignor to Emmons Loom Harness Company, Lawrence, Mass., a corporation of Massachusetts
Application June 17, 1949, Serial No. 99,701
7 Claims. (Cl. 139—92)

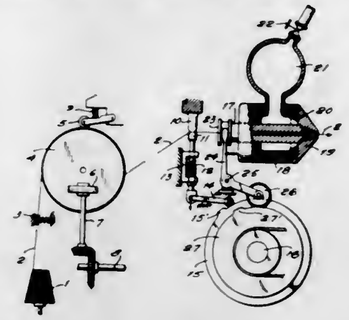
1. In a loom harness, the combination of two supporting shafts, each shaft being made of an alloy of a metal of the group consisting of magnesium and aluminum extruded and each having at the outside edge an enlarged part and at the inside edge an enlarged part, there being a web extending between said parts substantially the length of the shaft, and there being in each edge a lengthwise channel extending the entire length of the shaft open at each end with an entrance in the face of the edge and with a nut slot extending medially towards the front and back; a plurality of harness hooks each including a threaded shank extending through a channel entrance into a channel in the face of an outer edge and engaging an interior nut positioned in and movable in its nut slot and an exterior nut on the outer face of the outer edge of the shaft, whereby each harness hook can be clamped in a desired position; a plurality of heddle bar supporting members, each having at its free end, means to support a heddle bar and at its opposite



end having a threaded shank extending through a channel entrance into a channel in the face of an inner edge of the shaft and engaging an interior nut positioned in and movable in its nut slot, and an exterior nut on the inner face of the inner edge of the shaft whereby each heddle bar supporting member can be clamped in a desired position; and two harness frame end pieces, each of which is formed of two strips of metal each bent at each end at a right angle, one bent end extending over the channel in the outer edge at the end of a shaft and being attached thereto by a headed bolt with a threaded shank which passes into such channel and engages an interior nut in the nut slot, the bent end of the other strip extend over the channel in the inner edge at the end of such shaft and being attached thereto by a headed bolt with a threaded shank which passes into such channel and engages an interior nut in the nut slot of that channel.

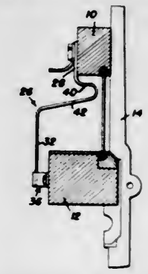
2,668,560
DEVICE FOR WEAVING OF FABRICS
Vladimír Svatý, Roztoky, near Jilemnice, Czechoslovakia, assignor of seventy-five per cent to Ceskoslovenske Textilni Zavody, narodni podnik, Prague, Czechoslovakia, a company of Czechoslovakia
Original application April 3, 1950, Serial No. 153,507. Divided and this application January 15, 1952, Serial No. 268,427
Claims priority, application Czechoslovakia April 2, 1949
6 Claims. (Cl. 139—127)

1. A device for weaving of fabrics comprising in combination means for operating the weft threads, a nozzle for the production of an air jet, adapted to entrain the weft thread into the shed of warp threads, a winding-off drum for the weft thread, at least one thread-entraining dog on the winding-off drum, a casting off member, adapted to release the thread from engagement with the said dog, a braking member adapted to cooperate with the winding-off drum and with



the weft thread passing between the said braking member and the winding-off drum and adapted to brake the thread in the moment of its release from engagement with the dog.

2,668,561
DOFF SAFETY BRACKET FOR LOOMS
Arthur L. Thibault, Fall River, Mass.
Application February 1, 1952, Serial No. 269,368
2 Claims. (Cl. 139—193)

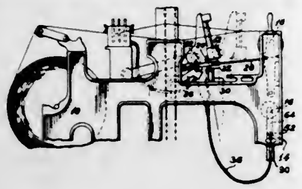


1. A smash preventer for loom reeds comprising in combination with a reed cap and lay a pair of brackets disposed adjacent the battery and handle end of a loom, each bracket comprising an elongated flat strip, means securing the ends of said strip to the reed cap and lay, the strip having an intermediate reversely curved portion disposed between the reed cap and lay and positioned above the lay a sufficient distance to clear a shuttle when picked but to engage a bobbin when it is upended in the shuttle wherein said ends of said strip are secured by said securing means to the lateral face of the reed cap and lay.

2,668,562
LOOM STOP MOTION
Jérôme Lachapelle, St. Joseph, Quebec, Canada, assignor to Drummondville Cotton Company Limited, Montreal, Quebec, Canada, a corporation of Canada
Application February 20, 1952, Serial No. 272,554
4 Claims. (Cl. 139—340)

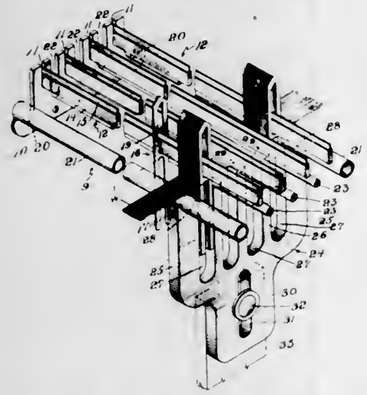
1. In a loom having a cloth roll stand and a cloth roller slidably mounted for vertical descent on said stand as the cloth is wound on; a loom stop motion comprising the combination with loom stopping mechanism including a knock-off lever assembly adapted to actuate the knock-off lever of the loom into loom stopping position and

having a pivotally mounted member engageable by the loom lay when raised, and a flexible motion transmitting member between said cloth roll



stand and said knock-off assembly whereby downward movement of said cloth roller is transmitted to cause upward movement of said pivotally mounted knock-off lever assembly member.

2,668,563
CENTER BRACE
Louis J. Palombo, Providence, R. I.
Application June 13, 1952, Serial No. 293,417
4 Claims. (Cl. 139—358)



1. In a warp stop motion for looms having longitudinally extending warp rests, longitudinally extending drop wire guides above the warp rests, drop wires on said guides, supports for the end portions of said warp rests and guides, a center brace for said warp rests positioned beneath the same and having an arm for each of said warp rests extending upwardly into engagement therewith, said arms being spaced from each other a distance greater than the width of said drop wires providing upwardly opening recesses in line with said drop warp guides, said recesses being of a depth and width to permit a shifting of the drop wires along said drop wire guides past said brace.

2,668,564
WOVEN TEXTILE ITEM AND FILAMENT YARN
Russell K. Laros, Bethlehem, Pa., assignor to R. K. Laros Silk Company, Bethlehem, Pa., a corporation of Pennsylvania
Application November 3, 1951, Serial No. 254,778
12 Claims. (Cl. 139—420)



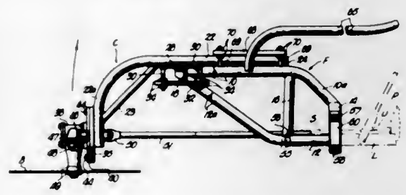
4. As a new article of manufacture, a woven textile item at least one of the warp and woof of which is formed of normally high gloss yarns of a thermoplastic fiber-forming material having a large number, of the order of approximately one hundred per inch, of preformed, permanent, regularly spaced sinuous bends of substantially equal depth and characterized by uniformly low to substantially no gloss solely as a result of the regular spacing and number of bends therein.

2,668,565
ELASTIC FABRIC AND METHOD OF MANUFACTURE THEREOF
Philip Ernest Frank Clay, Radcliffe-on-Trent, England
Application October 11, 1949, Serial No. 120,685
Claims priority, application Great Britain January 31, 1949
7 Claims. (Cl. 139—421)



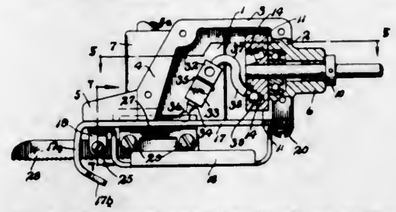
1. A method of making an elastic fabric including incorporating in the fabric, in parallel relationship, elastic threads which each include at least one stretch-retaining close wrapping and at least one soluble element serving to inhibit further stretch, and textile threads which each comprise at least one thread of inextensible textile material wrapped round a core soluble in the same solvent as said elements, and treating the fabric with solvent to dissolve the cores of the textile threads and the soluble elements of the elastic threads.

2,668,566
TREE-FELLING AND LOG-SAWING ATTACHMENT FOR TRACTORS
Gilbert A. Goodlet, Weston, Mo.
Application June 16, 1951, Serial No. 232,023
14 Claims. (Cl. 143—43)



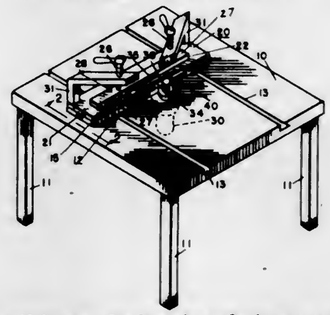
14. In a saw attachment for a tractor of the type having a pair of laterally spaced rearwardly extending lift arms, a frame with a movable saw carriage supported thereon, horizontally aligned trunnions on the frame adapted to be received in holes in the respective lift arms thereby to support the frame on the arms for limited adjustable rocking movement about a horizontal axis, said frame having for each lift arm a vertically elongated member rigid with the frame and disposed adjacent one side of such lift arm at a point spaced from said axis, a vertically elongated clamping bar adjacent the other side of each lift arm opposite one of said members, and means at the upper and lower ends of each bar for drawing same toward its associated member thereby to clamp the lift arm between the two when said frame has been adjustably rocked about its axis to a desired angular position relative to the lift arms.

2,668,567
MOTOR-DRIVEN RECIPROCATING SAW UNIT
Holly M. Olson, Muskegon, Mich.
Application May 31, 1949, Serial No. 96,308
5 Claims. (Cl. 143—68)



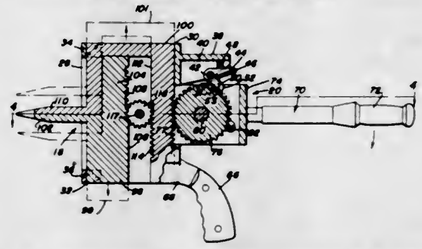
1. In a structure as described, a supporting housing having spaced parallel sides, a rocker member located between and mounted on said sides for rocking movement, a rod rotatively mounted on and extending through said rocker member at right angles to the rocking axis of said member, a shaft rotatively mounted on the housing and extending toward the rocker member, a head on said shaft having a recess in the side thereof adjacent the rocker member, said recess located outwardly from the center of said shaft, said rod at one end thereof including a laterally bent section extending toward said head and terminating in a ball located in said recess, a carriage, supporting and guide means for said carriage connected with sid supporting housing for supporting and guiding said carriage in back and forth reciprocating movements, and a universal joint connection between the opposite end of the rod and said carriage.

2,668,568
EDGER AND FINISHER
Lena M. Budd, Edgewood, Md.
Application November 30, 1951, Serial No. 259,082
1 Claim. (Cl. 144—134)



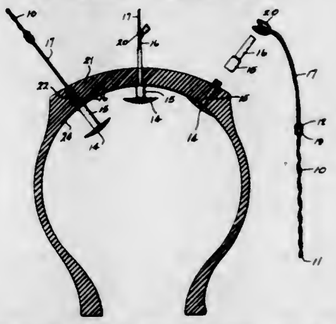
A smoothing and edge chamfering machine for plastic sheet material, comprising a table, a shaft extending through said table, means for securing said shaft in rotatable position on said table, means below the table for rotating the shaft, a roller above the table secured to and rotating with the shaft, said table having a pair of parallel dovetail slots extending transversely of its upper face, work holding means translatable along said slots in the direction of the roller, said holding means including a base plate having a linear edge transverse to the slot and contacting said roller to be guided thereby, means for securing the plastic sheet material to the holding means, a cutting tool mounted on the shaft above the roller, said tool operating along one edge of the plastic sheet material parallel to the aforesaid linear edge on the base plate, wherein the work holding means include a plate resting on top of the plastic sheet material and clamps extending above and spaced from the said material, and spring connections between said last mentioned plate and clamps.

2,668,569
MECHANICAL BOX OPENER
Joseph K. C. Fat, Honolulu, Territory of Hawaii, assignor of one-half to Edwin Starr, San Francisco, Calif.
Application July 17, 1951, Serial No. 237,197
5 Claims. (Cl. 145—21)



1. A mechanical opener comprising a casing having a first jaw element laterally extending therefrom and in slidable relation thereto, a second jaw element slidably carried by said casing for movement relative to said first jaw element, actuating means for effecting relative movement between said jaw elements, and stop means for selectively maintaining said jaws from movement toward each other, said actuating means including a handle having a substantially U-shaped portion pivotally carried by said casing, a pinion rotatably carried by said casing and between the legs of said handle, ratchet means selectively interconnecting said handle with said pinion whereby pivoting movement of said handle in one direction effects rotation of said pinion in a first direction, one of said jaw elements having rack teeth formed thereon and engaged with said pinion whereby pivoting movement of said handle can effect relative movement between said jaw elements, the juxtaposed and opposing face portions of said jaw elements having rack teeth formed thereon, a second pinion rotatably supported by said casing and between said juxtaposed face portions and engaging said rack teeth, movement of said second jaw element effecting relatively opposite movement of said first jaw element.

2,668,570
TIRE RIVET
Carl A. Pfeifer, Milwaukee, Wis.
Application March 4, 1950, Serial No. 147,699
1 Claim. (Cl. 152—370)



In combination, a twisted wire leader having an eye on one end thereof, a resilient tire rivet,

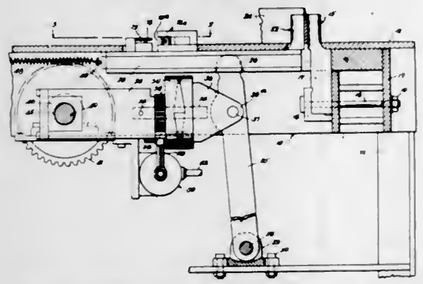
a circular base on said rivet, a stem integral therewith, a reduced portion on said stem at the top end thereof and an endless cord looped in said eye and double looped over said reduced portion for pulling said rivet through a puncture aperture after said lead wire.

2,668,571

POWER BENDING MACHINE FOR DIES

Stanley Leskiewicz, Lynn, and Frederick A. Hartung, Beverly, Mass., assignors to Stanley Leskiewicz, John Hermanson, and Joseph Toll, copartners, doing business as North Shore Cutting Die Company, Lynn, Mass.

Application April 21, 1949, Serial No. 88,816
7 Claims. (Cl. 153—48)



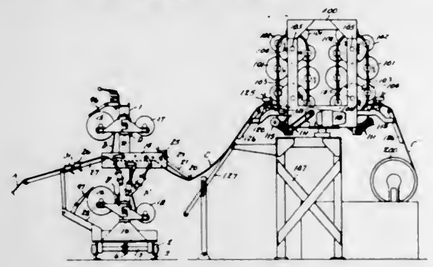
1. In a power bending machine, a frame, a horizontally extending bed on the frame, a forming tool fixed on the bed, a ram movable horizonally within said bed, an anvil mounted on said ram to cooperate with said forming tool, and means for varying the starting position of said anvil with respect to said forming tool, including cam members having abutting inclined surfaces, means including a rack and pinion and a hydraulic cylinder for rotating one cam member relatively to the other on said abutting inclined surfaces, and power means for moving said ram and anvil thereon against said forming tool in short reciprocating strokes, for bending metal stock placed between said anvil and forming tool.

2,668,572

METHOD OF AND APPARATUS FOR COATING FABRIC ON EITHER OR BOTH FACES

Henry C. Bostwick, Coventry Township, Summit County, Ohio, assignor to Akron Standard Mold Company, Akron, Ohio, a corporation of Ohio

Application November 29, 1950, Serial No. 198,094
12 Claims. (Cl. 154—10)



1. A system of applying one or more layers of coating material to a sheet of fabric during the passage of the fabric towards a motor driven roll upon which it is wound, comprising pressing the layer against the unwound portion of the fabric and feeding such composite strip in a festoon to the motor driven roll, providing an electric switch for energizing the driving motor of the roll and controlling the switch by the position of a floating member supported in the bight of the festooned composite strip.

2. An apparatus for applying a strip to either the upper or under face of a fabric strip comprising means for holding two spaced rolls of the material to be applied, an intermediately located feeder mechanism for the fabric strip, and roller means operatively disposed adjacent each face of the fabric strip for coaction in directing a sheet to be applied from one roll to one face of the fabric strip and a sheet to be applied to the other face from the other roll to contact with the fabric strip while the same is being advanced.

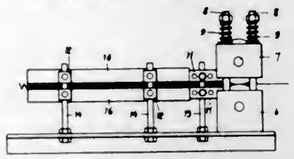
12. The combination of a servicer device having stock receiving rolls, a coating device adapted to coat a strip of fabric, means for continuously progressing the fabric strip through the coating device and towards the servicer device, other means for collecting the coated fabric onto the stock-receiving rolls of the servicer device at a rate faster than the fabric strip progresses through the coating device, and means coacting with the coated fabric strip as it passes from the coating device to the servicer device to periodically interrupt the fabric collecting means and thereby make the ultimate progress of the coated strip substantially the same in both devices.

2,668,573

APPARATUS AND PROCESS FOR CORRUGATING PAPER

Olof Einar Larsson, Orebro, Sweden

Application March 9, 1948, Serial No. 13,824
Claims priority, application Sweden April 8, 1947
6 Claims. (Cl. 154—30)



3. In apparatus for forming regular corrugations in a strip of flat paper, the combination comprising a pair of feeding rollers, said rollers having substantially smooth peripheries for feeding a flat strip of material therebetween, and a channel including opposing guides located in planes parallel to and equally spaced at opposite sides of a plane tangentially to said rollers and passing through the paper-feeding bite of said rollers, said guides extending into circumferential grooves in said rollers and defining surfaces of said channel intersecting said rollers along generatrices of said rollers, said surfaces being spaced from each other sufficiently to form corrugations in the flat paper with alternate ridges contacting opposite surfaces of said guides.

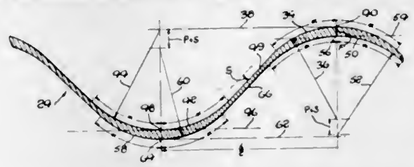
2,668,574

APPARATUS FOR MOLDING CORRUGATED ASBESTOS-CEMENT SHEETS

James Segre, New York, N. Y.

Application February 7, 1952, Serial No. 270,407
4 Claims. (Cl. 154—30)

1. For use in molding corrugated asbestos-cement sheets of uniform thickness from a flat plastic asbestos-cement sheet of uniform thickness, a one-piece platen having a top transverse profile constituting a series of upwardly convex circular arcs all having the same radius of curvature and being tangent to a single straight line, the radius at the center of each arc being perpendicular to said line, said top transverse profile also constituting a series of upwardly concave circular arcs all having the same radius of curvature and being tangent to a second single straight line, the radius at the center of each upwardly concave arc being perpendicular to said second tangent line, the arcs of the two series alternating, the top transverse profile further constituting a group of straight lines joining the ends of adjacent arcs and tangent to the ends thereof, the bottom transverse profile constituting a series of upwardly convex circular arcs all having the same radius of curvature and being tangent to a third single straight line, the radius at the center of each upwardly convex circular arc of the bottom transverse profile being perpendicular to said third tangent line, the bottom transverse profile further constituting a series of upwardly concave circular arcs all having the same radius of curvature and being tangent to a fourth single straight line, the radius at the center of each upwardly concave arc of the bottom transverse profile being perpendicular to the fourth tangent line, all of said tangent lines being parallel to one another, the arcs of the two series in the bottom transverse profile alternating, the bottom transverse profile also constituting



a group of straight lines tangentially joining the ends of adjacent arcs and parallel to the group of lines in the top transverse profile which tangentially join the ends of adjacent arcs therein, each upwardly convex arc of the bottom transverse profile being paired with an upwardly convex arc of the top transverse profile and each upwardly concave arc of the bottom transverse profile being paired with an upwardly concave arc of the top transverse profile, the bottom arc of each pair being directly beneath and of the same angular length as the top arc of that pair and the centers of each pair of arcs lying in a line perpendicular to the tangential lines, the radius of every upwardly convex arc of the top transverse profile being S shorter than the radius of the matching upwardly convex arc of the bottom transverse profile where S is the thickness of the molded asbestos-cement sheet, the radius of every upwardly concave arc of the top transverse profile being S longer than the radius of the matching upwardly concave arc of the bottom transverse profile, the center about which the radius of every arc of the top transverse profile is described being $P+S$ above the center about which the radius of the matching arc of the bottom transverse profile is described where P is the thickness of the platen at the centers of the matching arcs.

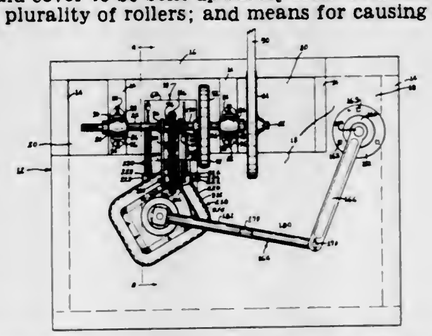
2,668,575

ROUND CORNER CASE MAKING MACHINE

James E. Stringer, Central City, Nebr.

Application October 19, 1950, Serial No. 191,046
14 Claims. (Cl. 154—41)

2. A machine for folding the edge portions of a covering around the edge of a piece of relatively stiff material comprising: a frame; a backing member having a flat surface for receiving said covering thereagainst; means mounting said backing member on said frame such that it is free to move with respect to said frame in all directions in a plane in parallelism with said flat surface; clamp means for holding said piece against said covering when said covering is disposed on said flat surface; means for causing said backing member to move in a path complemental to the contour of the outer edge of said piece; up-turning means for causing the outer edge portion of said cover to be bent upwardly from said surface; a plurality of rollers; and means for causing said



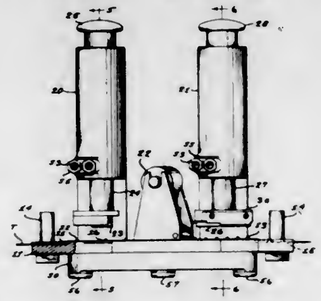
rollers to pass alternately across said backing member while pressing thereagainst, said rollers each moving across said backing member from the outside thereof toward the inner side thereof transversely of the path of said backing member movement, and said rollers each moving across said backing member at a point disposed closely in front of said covering up-turning means with respect to the direction of movement of that portion of said backing member which is closest to said up-turning means.

2,668,576

SPLICING DEVICE FOR MAGNETIC TAPE

Ralph M. Nichols, Greenville, S. C., assignor to Bob Jones University, a corporation of Tennessee

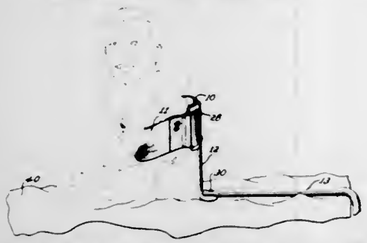
Application June 4, 1952, Serial No. 291,663
7 Claims. (Cl. 154—42.3)



1. A splicing device for magnetic tape comprising a base member, a splicing block fixed on said base member, means including locating pins arranged on said splicing block for maintaining magnetic tape at selected positions thereon, a stationary shear blade fitted in said splicing block diagonally thereof at a first selected position for cutting said magnetic tape diagonally between the register holes therein, cutting die apertures formed in said splicing block at a second selected position in correspondence with the register holes of said magnetic tape immediately adjacent each side of a cut made in said magnetic tape at said first position, a first plunger means mounted on said

base member to extend above said splicing block at said first position and a second plunger means similarly mounted at said second position, a movable shear blade carried by said first plunger means for cutting action with said stationary blade, and a splicing tape dispenser mounted on said base member in spaced relation between said first and second plunger means; said dispenser having a diagonal disposition for directing the withdrawal of splicing tape therefrom across said splicing block at said second position in spaced parallel alignment with the diagonal cutting disposition of said shear blades at said first position; said second plunger means carrying a presser plate for applying a length of splicing tape from said dispenser to join at said second position abutting ends of magnetic tape cut at said first position, cutting punches arranged in relation to said cutting die apertures for reforming register holes through said length of splicing tape, and trimming blades for trimming said diagonally applied length of splicing tape at each side edge of said magnetic tape; and said splicing block being recessed and fitted with stationary trim blades for cooperation with the trimming blades of said second plunger means.

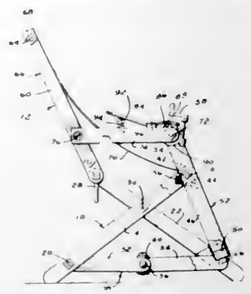
2,668,577
SAFEWAY BABY POSER
Norman Vanderschel, Lubbock, Tex.
Application September 9, 1952, Serial No. 308,561
3 Claims. (Cl. 155—36)



1. A baby holder comprising a clamp for use on a table top, a vertically disposed support extended from said clamp, an arcuate band carried by said support, an elastic belt extended from the end of the arcuate band, and a cover having belt receiving slots therein positioned over said arcuate band.

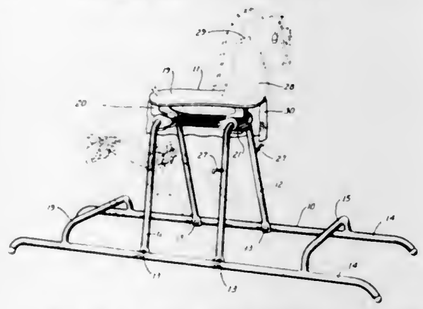
2,668,578
FOLDING STRUCTURE FOR CONVERSION FROM A CHAIR TO A COT AND VICE VERSA
Charles E. Pearman, Littleton, Colo.
Application March 6, 1953, Serial No. 340,800
2 Claims. (Cl. 155—45)

1. A folding structure for conversion from a chair to a cot and vice versa, said structure comprising spaced front legs mounted intermediate their ends to move about a common horizontal axis, spaced rear legs mounted intermediate their ends to move adjacent the front legs about the common axis, a cross bar carried by the front legs and extending therebetween adjacent the lower ends thereof, cross bars carried by the rear legs and extending therebetween adjacent the upper and lower ends thereof, the cross bars carried by both the front and rear legs lying parallel with the common axis, an articulated stretcher connected adjacent opposite ends to the cross bars adjacent the lower ends of the legs for holding said legs extended, a foot rest frame carried by the rear legs adjacent the upper ends thereof for movement above the front legs about an axis which lies parallel to the common axis, a back rest frame carried by the front legs adjacent the upper ends thereof for movement above the rear legs about an axis which lies parallel to the common axis, extension arms carried by the foot rest frame and extending longitudinally therefrom beyond the upper ends of the rear legs, arm rests pivotally connected to the extension arms and to the back rest frame



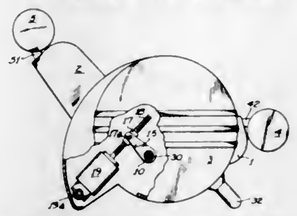
intermediate the ends thereof, a sheet of flexible material connected to the frames adjacent the ends thereof remote from the upper ends of the legs for supporting a person on said structure, a toothed quadrant carried by a rear leg adjacent its connection to the foot rest frame, and hand actuated means carried by one of the extension arms of the foot rest frame and engaging the teeth of the quadrant for moving the frames relative to one another.

2,668,579
OSCILLATING SEAT
Robert C. Swengel, York, Pa.
Application October 9, 1946, Serial No. 702,196
10 Claims. (Cl. 155—56)



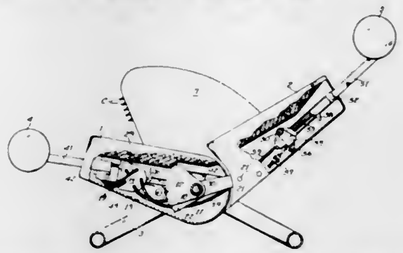
1. In a toy of the class described, a base, a pair of inverted U-shaped members pivoted at the lower ends thereof to said base and extending upwardly therefrom in substantial parallelism, a body support having horizontally oppositely opening segmental bearings receiving the bight portions of said U-shaped members, means on said bight portions projecting laterally toward each other, and springs interconnected to said means on said bight portions of said U-shaped members and serving to hold said bight portions in operative position in said bearings, said springs and said means on said bight portions being so arranged that oscillation of said U-shaped members from a normal vertical position to an inclined position at either side of such vertical position creates an increasing tension in the springs resisting such oscillation in a degree proportionate to the deflection.

2,668,580
CHAIR
Frank J. Luketa, Seattle, Wash.
Application May 9, 1949, Serial No. 92,153
6 Claims. (Cl. 155—105)



1. A chair comprising a floor-engaging frame, a seat, a back, two segmental shaft elements disposed one alongside the other to constitute conjointly a single but interrupted cylindrical shaft, the two parts whereof are mutually relieved angularly to oscillate relatively through a limited angle about their common axis, the frame constituting a journal support for said composite shaft, the seat and the ends of one such shaft element being rigidly interconnected, and the back and the ends of the other shaft element being similarly rigidly interconnected, and means carried by the respective shaft elements for engagement by tilting means, whereby to tilt either or both said shaft elements, and the corresponding seat or back, about the shaft's axis.

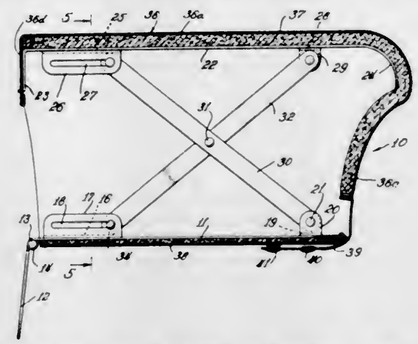
2,668,581
LOUNGE CHAIR
Frank J. Luketa, Seattle, Wash.
Application June 11, 1949, Serial No. 98,511
7 Claims. (Cl. 155—105)



1. A chair comprising a floor-engaging support including a transverse pivot rod means supporting said pivot rod in a position elevated above the floor, a seat and a back each independently pivotally mounted thereon to tilt about such axis, means reacting between one of the seat or back and said support to tiltably adjust said seat or back, as the case may be, relative to said support, and to retain the same in any such position of adjustment, and means reacting directly between the one so adjustable and the other for tilting adjustment of that other, and its retention in adjusted position.

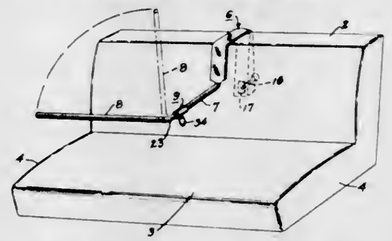
2,668,582
ARMREST FOR VEHICLE SEATS
Sumner Goodfellow, Bloomington, Ill.
Application October 9, 1948, Serial No. 53,613
8 Claims. (Cl. 155—112)

1. An arm rest unit comprising a collapsible framework including upper and lower plates, and a flexible sheath therefor having top, bottom, end, and side walls, and a padding for the top and end walls to make the sheath appreciably thicker at these walls than at the other walls,



the padding lying above the upper plate and overhanging the longitudinal edges thereof.

2,668,583
AUTOMOBILE SEAT SAFETY GUARD
Albert Singer, Berkeley, Calif.
Application September 24, 1951, Serial No. 247,932
7 Claims. (Cl. 155—189)

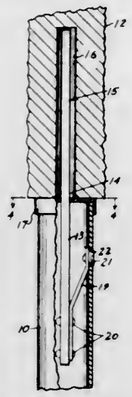


1. An automobile seat safety guard comprising a guard bar spaced forwardly with respect to the back rest of the seat whereby a passenger can sit in said seat in back of said bar, a side bar supported by and extending forwardly from adjacent the back rest of said seat between the sides of the seat, means pivotally connecting said guard bar on said side bar adjacent the front end of said side bar for movement along an upright plane from a guarding position in front of said passenger to an upright position and vice versa, and means for supporting said side bar.

2,668,584
MEANS FOR CONNECTING CHAIR BACK RESTS TO TUBULAR STRUCTURAL ENDS
Meyer Greitzer, Beverly Hills, Calif.
Application September 25, 1950, Serial No. 186,569
2 Claims. (Cl. 155—196)

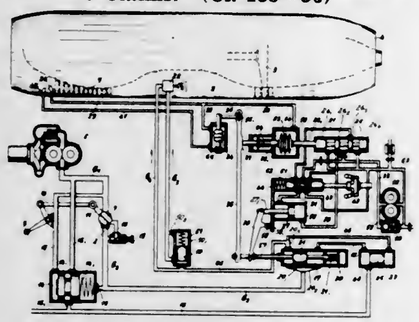
2. In a chair having a back-rest portion and a seat portion, the back-rest portion having a bore near each lateral edge and the seat portion having a pair of spaced apart tubes extending upwardly therefrom which have open ends that are in alinement with and near the said bores in the back-rest, a snug cap fixed to the end of each tube and provided with a slot, a connector element for each tube having a broad flat end, each flat end having a friction fit with the inner surface of its respective tube, each connector element having a reduced narrow end that passes through the slot of its respective cap for entering its respective bore of the back-rest, the broad end of each connector within its respective tube

having latching means consisting of a spring band with one end thereof fixed to the broad end of the connector element and the other end



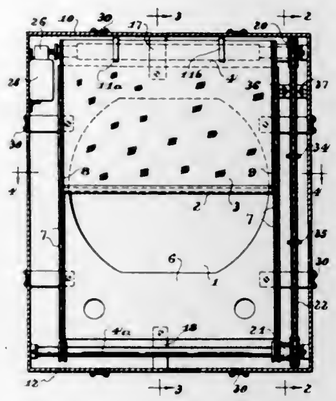
offset from the element and provided with a button, each tube having an aperture adapted to receive its respective button of the latching means.

2,668,585
FUEL FEED CONTROL FOR GAS TURBINE ENGINES
Hermann Oestrich, Siegfried Decher, and Wolfgang Stein, Decize, France; said Decher and said Stein assignors to said Oestrich
Application July 27, 1948, Serial No. 40,954
Claims priority, application France August 4, 1947
7 Claims. (Cl. 158—36)



1. For turbojet and turboprop power units having an air compressor and a fuel burner, the combination of a temperature-responsive device adapted to be exposed to the air on the inlet side of said compressor; a separate pressure-responsive device adapted to be exposed to the air on the inlet side of said compressor; a source of fuel; a valve casing having a fuel inlet slot therethrough; a valve supported in said valve casing for movement along said slot, adapted to divide the inner space of said casing into two compartments of variable volumes communicating respectively with the portions of said slot on either side of said valve; means for supplying fuel from said source into said valve casing through said slot; means for conveying fuel from one of said compartments in said valve casing to said burner; means providing an exit for fuel from the other compartment; and means connected with said pressure-responsive device and said temperature-responsive device, for moving said valve in said valve casing according to a predetermined function of air temperature and air pressure variations.

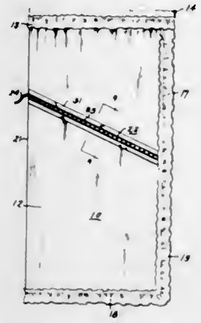
2,668,586
CURTAIN ASSEMBLY AND POWER DRIVE THEREFOR
John H. Luckie, East Rochester, N. Y.
Application March 25, 1950, Serial No. 151,841
25 Claims. (Cl. 160—241)



1. A curtain assembly comprising a frame having horizontal top and bottom members and upright side members, an upper roller at the top of the frame with bearings therefor and a lower roller at the bottom of the frame with bearings therefor, a curtain having one end fastened to one of said rollers and the other end of the curtain left free, a horizontal reinforcing bar being fastened to the free end of the curtain, a flexible strip fastened to each side of the curtain and its roller and extending the length of the curtain and beyond the curtain and being attached to the other roller, each of said strips being about twice the length of the said curtain and about twice as long as the distance by which the centers of the rollers are spaced apart, a series of relatively closely spaced cleats on each of said strips, said strips and cleats being sufficiently flexible to roll upon either of said rollers, a series of guide members on each of the upright side members of the frame under which said cleats on the strips must pass as the horizontal curtain bar moves away from one roller and moves toward the other roller, said cleats and guide members coacting to tension said curtain laterally thereof.

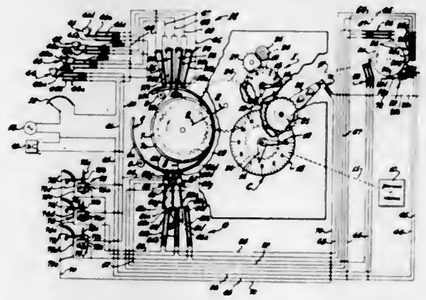
2,668,587
WINDOW CURTAIN
Morton A. London and Herbert I. London, Philadelphia, Pa.
Application October 20, 1951, Serial No. 252,339
8 Claims. (Cl. 160—349)

1. In a window curtain of the draped type comprising a body portion or panel of flexible material adapted to depend from a supporting member in a substantially ungathered condition with inner and outer edges extending generally vertically and a flexible tie-back construction comprising a draw tape and guiding means therefor extending across said panel from said inner to said outer edge, said guiding means including a band of material having a pair of spaced generally parallel runs and a plurality of relatively spaced additional runs each extending transversely between said parallel runs, said draw tape being rove through the openings between said spaced transversely extending additional runs and having an end portion secured to said inner edge of the panel, and said generally parallel runs



being secured to said panel along their entire length.

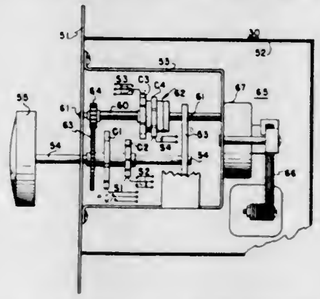
2,668,588
MAGNETICALLY OPERATED PRESELECTOR
Ralph A. Hamilton, Glendale, Calif., assignor of one-half to Fred Richard Hamilton, Glendale, Calif.
Application October 5, 1948, Serial No. 52,918
43 Claims. (Cl. 161—1)



1. In a preselector mechanism: a movable, elongated magnetically permeable control medium, having a plurality of substantially equal sections thereon defined by units of advance; means for advancing said medium along a predetermined path; an operator adapted to respond to a magnetic zone on said medium; optionally operable magnetizing means positioned adjacent said path and spaced from said operator; means rendering said magnetizing means effective upon successive operations, to impress a magnetic zone on said medium at a corresponding point in each of said sections; and means rendering said operator effective upon arrival of said corresponding place in each section in predetermined relation with the operator.

2,668,589
CYCLIC CONTROL PROGRAM SYSTEM
Douglas F. Illian, Oak Park, Ill., assignor to General Electric Company, a corporation of New York
Original application May 7, 1949, Serial No. 91,906, now Patent No. 2,624,352, dated January 6, 1953. Divided and this application September 22, 1951, Serial No. 247,866
6 Claims. (Cl. 161—1)

1. A program selecting system comprising first and second rotatable shafts, speed-change gearing interconnecting said shafts so that when either one of said shafts is rotated at one speed the other of said shafts is driven at another speed, said first shaft having an off position and an on position and a plurality of control positions and being rotatable sequentially from its off position into its on position and thence through its control positions back into its off position, a manually rotatable member connected to said first shaft for rotating it, an electro-responsive timer operative at a predetermined rate, a drive connection between said timer and said second shaft for rotating it, said drive connection accommodating rotation of said second shaft by said first shaft through said gearing independently of said timer, a source of current supply, switching contacts, an operating circuit for said timer including said source and said switching contacts, means responsive to rotation of said first shaft by said manually rotatable member

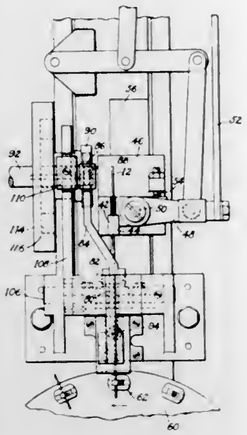


from its off position into its on position for closing said switching contacts in order to complete said operating circuit so as to initiate operation of said timer, said timer rotating said first shaft through said drive connection and said second shaft and said gearing from its on position through its control positions back into its off position, means responsive to rotation of said first shaft back into its off position for opening said switching contacts in order to interrupt said operating circuit so as to arrest operation of said timer, said second shaft having a plurality of control positions and being rotatable sequentially therethrough, a first control circuit selectively governed by said first shaft in its various control positions, and a second control circuit selectively governed jointly by said first shaft in a predetermined one of its control positions and by said second shaft in its various control positions.

2,668,590
FISHHOOK MAKING
William J. De Witt and Herbert A. Corbett, Auburn, N. Y., assignors, by mesne assignments, to Auburn Fishhook Company, Inc., Auburn, N. Y., a corporation of New York
Application March 28, 1946, Serial No. 657,794
3 Claims. (Cl. 164—48)

1. In a fishhook making machine, blank forming mechanism comprising a fixed shear block having an opening therethrough for the passage of wire and having an end face extending at right angles to the axis of the opening, a second fixed shear block located adjacent to the face of the first-mentioned block and having a horizontal slot opening therethrough in alinement with the opening in the first-mentioned block and a face extending angularly across the axis of the opening and forming an acute angle with the face of the first-mentioned block, a movable shear block having operating faces, respectively, parallel to the faces of the fixed shear blocks, and substantially in alinement therewith, means

operable intermittently to advance wire through the openings in the fixed shear blocks, means operable in timed relation to the feeding mechanism to move the movable shear block across



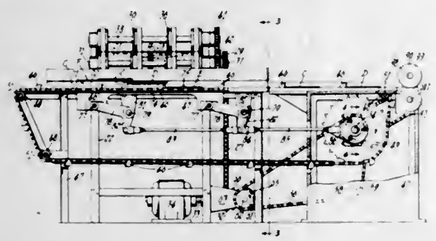
the line of feed of the wire to produce a blank together with means for feeding the wire blank axially and removing the severed blank sidewise through the said slot.

2,668,591

SHEET FEEDING AND SLITTING MACHINE WITH STRIP FEEDING DEVICE

William P. Winters, Cincinnati, Ohio, assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application May 24, 1951, Serial No. 227,971
6 Claims. (Cl. 164—61)



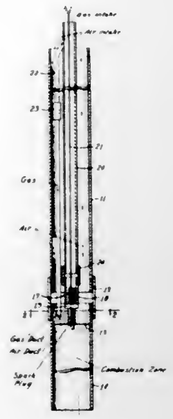
1. In a machine for feeding sheet material in directions at an angle to each other, the combination of a conveyor, actuating means for advancing said conveyor, a plurality of feed dogs on said conveyor in spaced order, a platform disposed adjacent said conveyor, said platform having a high portion and a low portion disposed above said conveyor, means for feeding a strip of sheet material to the high portion and another strip to the low portion of said platform, and means for lowering said platform toward said conveyor in time with the advancement of said feed dogs to align said low and high portions of said platform with said conveyor in succession for the advancement of said strips by said conveyor from said platform in sequence and in spaced and timed order.

2,668,592

GAS BURNER AND METHOD FOR BURNING GAS IN OIL AND GAS WELLS

John J. Piros, Homewood, Ill., and Oliver F. Campbell, Whiting, Ind., assignors, by mesne assignments, to Sinclair Oil and Gas Company, Tulsa, Okla., a corporation of Maine

Application June 4, 1949, Serial No. 97,142
6 Claims. (Cl. 166—17)



6. In the method of producing hot combustion gases at an input well for the thermal recovery of oil and gas, the improvement which comprises separately passing fuel gas and air streams to a mixing point at the head of a substantially cylindrical combustion zone in said well, separately introducing each of said streams into the combustion zone at a location spaced from the longitudinal axis of the combustion zone and in a downstream direction having a directional component outward from said axis and a directional component tangential to a circle having its center at said axis and passing through said location, the last named tangential directional component of each of said streams being in the same direction circumferentially of said zone, directing the flow of said streams in a manner to produce peripheral flow in said combustion zone to accomplish tangential swirling and mixing of the fuel gas and air at the periphery of said combustion zone, igniting the resultant fuel gas-air mixture, and controlling the temperature of the flame by introducing secondary air into said well and around said combustion zone.

2,668,593

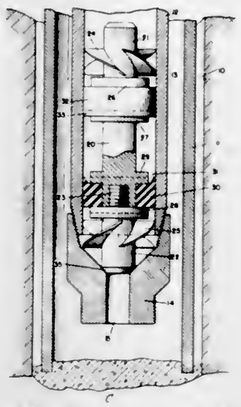
DEVICE FOR SCRAPING AND TESTING WELL TUBING

Lehman E. Hay, Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application January 14, 1950, Serial No. 138,669
5 Claims. (Cl. 166—18)

1. A device adapted for testing and scraping well tubing, which comprises an elongate support, a set of tube scraping elements on each end of said support and extending laterally therefrom, a pair of resilient seal rings on said support between the sets of scraping elements, said seal rings being adapted to be forced into sealing engagement with the inner wall of the tubing

by a hydraulic medium admitted to the well tubing and to move the device into and out of



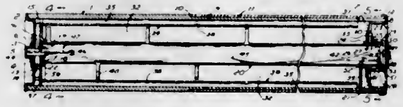
the tubing under the pressure of the hydraulic medium.

2,668,594

POWDER SPRAY GUN

George B. Mornik, Mounds View Township, Ramsey County, Minn.

Application January 13, 1950, Serial No. 138,349
16 Claims. (Cl. 169—33)



1. A powder spray gun having, in combination, an elongated main tubular member, having end walls, a valved closure for one end wall and a suitably disposed discharge-air intake opening in the other end wall, an inner partition which forms a powder and air passage chamber between the discharge end wall and said inner partition, a powder storage chamber formed between the inner partition and the valved end wall, an air passage opening suitably disposed in the inner partition, an air tube passing through the valved end wall and powder storage chamber said air tube being connected with the air passage opening in the inner partition, a plurality of powder and air passage ducts suitably formed and disposed at the inner side of the wall of the powder storage chamber and extending from the powder and air passage chamber into a greater portion of the length of the powder storage chamber, said ducts each having a plurality of suitably spaced openings in the wall of the duct, a tubular operating member having one end wall, said operating member being mounted for slideable operation over the main tubular member, whereby a telescoping air chamber is provided between the operating member and the valved end wall of the main tubular member.

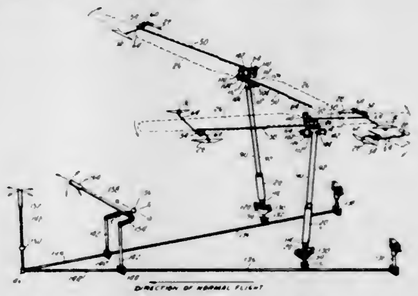
2.668,595

ROTOR CONTROL MECHANISM FOR AIRCRAFT OF ROTARY WING TYPE

Charles H. Kaman, West Hartford, Conn., assignor to The Kaman Aircraft Corporation, Windsor Locks, Conn., a corporation of Connecticut

Application February 28, 1947, Serial No. 731,656
14 Claims. (Cl. 170—135.24)

1. An aircraft of the rotary blade type including in combination, a fuselage, a power driven substantially vertical shaft connected with the fuselage, a plurality of similar radially extending aerofoil blades equally spaced circumferentially and having their root portions connected with the shaft for rotation therewith and so held as to prevent rotative movements of the said root portions about axes extending longitudinally of the blades, each blade being capable of substantial twisting about its longitudinal mean axis and with respect to its nonrotatable root portion and having torsional resiliency causing it to be restored to its normal position after such twisting, a plurality of similar pairs of aerofoil flaps carried respectively by the outer portions of the blades with one flap of each pair adjacent the leading edge of its blade and with the other flap of each pair adjacent the trailing edge of the same blade, all of the said pairs of flaps being substantially equally spaced from the shaft and being angularly movable relatively to their respective blades about axes substantially parallel with the mean axes of the blades and the flaps of each pair being connected with each other for movement in opposite directions about their respective axes so that the flaps of the said pairs normally serve by reason of aerodynamic forces acting thereon during rotation to twist the respective blades progressively from the said root portions toward the said flaps and to thereby change the effective blade pitches to varying substantial extents dependent on varying relative angular positions of the flaps, relatively movable flap moving connections extending from the flaps of the said pairs to the fuselage, and a pilot controlled flap actuating mechanism on the fuselage for moving the said connections during rotation of the blades and flaps so as to angulary move the flaps of the several pairs relatively to the blades, the said flap actuating mechanism enabling the pilot to control the movement of the aircraft by reason of varying flap induced twisting of the blades and the resultant varying effective pitches thereof.



12. A control mechanism for a helicopter comprising in combination, two transversely spaced substantially vertical oppositely rotatable driving shafts, two multiple bladed lifting rotors respectively connected with and driven by the said shafts, two sets of lift adjusting means for the blades of the respective rotors, two similar horizontally spaced sets of vertically extending and vertically movable actuating members which are respectively rotatable with the said driving shafts with the members of each set equally spaced from the axis of the corresponding shaft, the actuating members of the said sets being respectively connected at their upper ends with the said lift adjusting means for the blades of the two rotors, two horizontally spaced rotatable azimuth members which are vertically movable independently of each other and which are also angularly movable for changing the positions of their axes of rotation, means for operatively connecting the

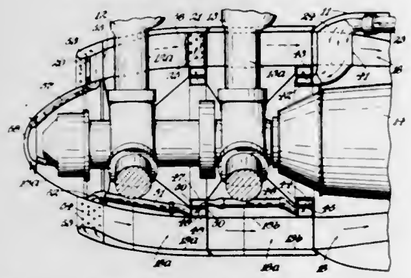
lower ends of the vertically movable actuating members of the two said sets with the respective azimuth members, two similar horizontally spaced movable nonrotatable control elements having bearings with which the respective rotatable azimuth members are engaged, a pivotally movable pilot operated stick, means connecting the stick with the two control elements and constructed and arranged to enable the said stick to move the said elements vertically to thus move the two azimuth members vertically so as to change the lifting powers of the blades of the respective rotors, a second pilot operated stick pivotally movable about a longitudinal axis and also pivotally movable about a transverse axis, and means connecting the second said stick with the two control elements and constructed and arranged to enable the said stick upon movement about either or both of its said pivotal axes to move the said control elements horizontally in unison in any direction to angularly change the positions of the axes of rotation of the two azimuth members so as to change cyclically and to uniform extents the lifting powers of the several blades of the two rotors.

2,668,596

ANTIICING AND INTAKE MEANS FOR TURBINE-PROPELLER UNITS

Albert George Elliott, Quarndon, England, assignor to Rotol Limited, Gloucester, England, a British company

Application June 29, 1948, Serial No. 35,916
Claims priority, application Great Britain July 4, 1947
8 Claims. (Cl. 170—135.28)



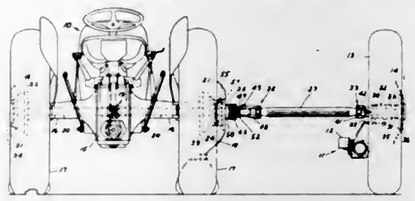
1. For use with a turbine-propeller power-plant having an engine-compressor, a turbine system connected to receive working fluid compressed by said compressor and an annular air intake duct for the compressor; the combination of a propeller means adapted to be driven by the turbine system, a spinner carried by the propeller means and defining a rotatable continuation of the inner wall of the air intake duct, an annular fairing carried by the propeller means and spaced radially outwardly from the spinner and forming a rotatable continuation of the outer wall of the air intake duct, a stationary manifold supported by the air intake duct at the inner wall thereof, means supplying hot gas to the manifold, a first rotatable manifold circumposed on the stationary manifold and carried by the spinner, means communicating said manifolds, a second rotatable manifold carried by the spinner and spaced forward of the first rotatable manifold, means extending axially of the spinner connecting the first and second rotatable manifolds, said propeller means having root portions disposed transversely between the spinner and annular fairing, means enclosing said root portions, said second rotatable manifold being positioned in advance of said root portions enclosing means and having means communicating with said root portions enclosing means and with the air intake duct.

2,668,597

DRIVE AXLE FOR TRACTOR-IMPLEMENT COMBINATIONS

Robert W. King, Birmingham, Mich., assignor to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware

Application May 17, 1951, Serial No. 226,783
3 Claims. (Cl. 180—75)



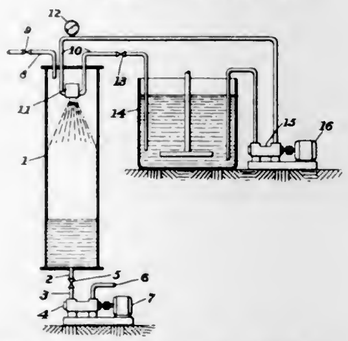
1. Drive mechanism for use with a tractor having differentially connected rear axle shafts each having an enlarged end portion fitted with a series of axially projecting threaded studs for attachment of a drive wheel, said mechanism comprising, in combination, a stub shaft having an enlargement at one end for attachment to the tractor axle by means of the studs in lieu of the tractor wheel, said stub shaft having splines at its opposite end for coupling with a shaft to be driven, means for supporting the tractor wheel for free rotation on said stub shaft comprising a sleeve having an enlargement carrying a series of axially projecting wheel attaching studs arranged in a pattern corresponding to that of the studs on said axle shaft, and anti-friction bearings supporting said sleeve on said stub shaft and restraining it against axial movement relative thereto.

2,668,598

APPARATUS FOR REMOVING GASES FROM A LIQUID

John Bryan Seed, West Kilbride, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

Application September 26, 1950, Serial No. 186,752
Claims priority, application Great Britain November 21, 1949
2 Claims. (Cl. 183—2.5)



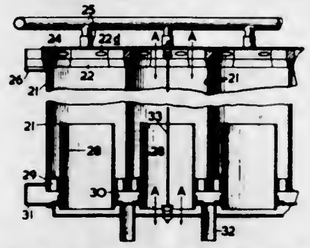
1. Apparatus for removing gases from a liquid comprising a closed vessel of substantially greater height than width adapted to be maintained at sub-atmospheric pressure, a liquid spray distributor within said vessel adapted to discharge liquid downwardly in the form of a cone of droplets and in the direction of the upper regions of the surrounding wall of said vessel to form a thin film of liquid on said wall, said surrounding wall being inclined so as to permit said thin film of liquid to flow by gravity to the bottom of said vessel for collection, and a supply reservoir for providing liquid to said liquid spray distributor, said liquid spray distributor comprising a body member having a liquid inlet means and a distributor discharge means, said distributor discharge means including a valve member which is maintained in a normally closed position by spring urged means and opens in response to a predetermined liquid pressure on said valve, said liquid spray distributor including an outlet from the body portion thereof for returning liquid to said supply reservoir, said outlet having valve means for controlling the rate of return of said liquid to said supply reservoir and thereby adjust the pressure of liquid acting against said spring normally urging said valve in a closed position whereby control of the droplet formation is obtained.

2,668,599

ELECTROSTATIC PRECIPITATOR

Derek Roy Whittet, Farnborough, England, assignor to Power Jets (Research and Development) Limited, London, England, a British company

Application September 15, 1952, Serial No. 309,590
Claims priority, application Great Britain September 24, 1951
7 Claims. (Cl. 183—7)



1. Precipitating plant made up of a plurality of electrostatic precipitators in separate internally-cylindrical upright tubes constituting collectors and containers, closely stacked in staggered banks, said tubes being substantially in tangential contact, and means for admitting liquid to each said tube as a film formed on and swirling around the inside cylindrical surface of the tube which means comprise a chambered ferrule on the top end of each container tube pierced by at least one liquid-supply hole from a chamber in the ferrule into the interior of the ferrule substantially tangentially to the inside surface of the ferrule, wherein said ferrule is made up of separate elements, at least one of which is formed with arcuate portions engaging and holding together at least three mutually tangential container tubes, and with a said chamber located in the three-sided space between said three tubes.

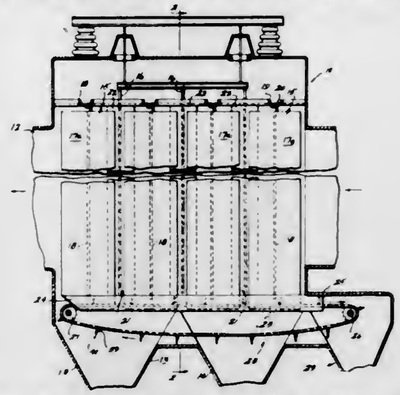
2,668,600

ELECTRODE STRUCTURE

Harry A. Wintermute, Plainfield, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York

Application April 6, 1953, Serial No. 346,860
7 Claims. (Cl. 183—7)

1. An electrical precipitator comprising a housing, gas inlet and gas outlet means providing for the passage of a stream of gas to be cleaned through said housing, a plurality of vertically extending collecting and discharge electrodes in said housing arranged in parallel rows, each of said collecting electrodes comprising an elongated box-like structure having a hollow interior, two of the opposed walls of the collecting electrodes



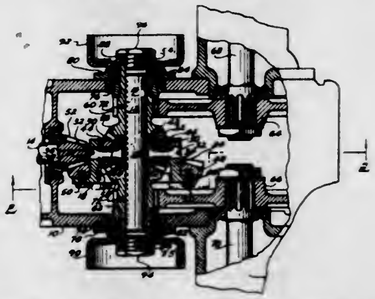
having openings therethrough for the entry of collected particulate material, conduit means communicating with a plurality of said hollow collecting electrodes at their lower ends, conveyor means provided in said conduit means to move collected material therethrough and rapper means for said collecting electrodes actuated by said conveyor means.

2,668,601

LUBRICATING MEANS FOR DIFFERENTIAL MECHANISMS

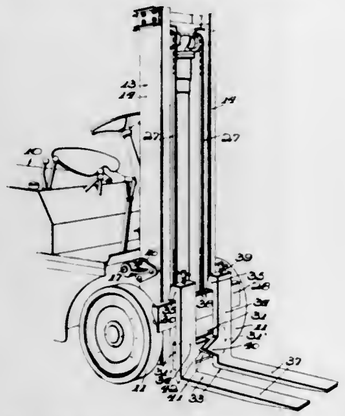
Beverly W. Keese, Oshkosh, Wis., assignor, by mesne assignments, to Rockwell Spring and Axle Company, Coraopolis, Pa., a corporation of Pennsylvania

Application January 4, 1951, Serial No. 204,436
11 Claims. (Cl. 184—11)



1. In a differential gear mechanism, housing structure, a shaft journalled for rotation within said housing structure about an axis above the surface of an oil bath therein, a spider nonrotatably mounted on said shaft, radially extending pins fixed within said spider, a plurality of differential pinions journalled thereon by cooperating contacting bearing surface pairs, differential side gears journalled on said shaft adjacent said spider by further cooperating contacting bearing surface pairs and meshing with said pinions, and lubricating means for said mechanism comprising oil distributing channels formed on one of each of said pairs of contacting bearing surfaces of the differential gear mechanism and means for feeding oil to said oil distributing channels from the oil bath.

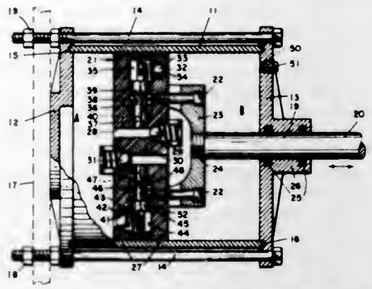
2,668,602
INDUSTRIAL TRUCK
Walton W. Cushman, Webb City, Mo.
Application November 17, 1952, Serial No. 321,066
5 Claims. (Cl. 187—9)
(Granted under Title 35, U. S. Code (1952), sec. 266)



5. In an industrial truck having front wheels and an upright mast arranged between the front wheels, a substantially vertical carriage connected with the mast for movement thereon and having a top relatively wide part incapable of passing between the front wheels and a bottom relatively narrow part adapted to pass between the front wheels when the carriage is fully lowered, said top and bottom parts of the carriage having forward bearing surfaces arranged in substantially the same vertical plane, a pair of substantially L-shaped lifting forks suspended from the top relatively wide part of the carriage and bearing against the forward bearing surface of the bottom carriage part, a transverse extension secured to the inner side of one lifting fork adjacent to the bottom carriage part and having a V-shaped notch formed therein, the extension bearing against the forward bearing surface of the bottom carriage part when the lifting fork having said transverse extension is shifted beyond one end of the bottom carriage part, and a transverse V-shaped extension secured to the inner side of the other lifting fork adjacent to the bottom carriage part and entering the V-shaped notch of the first-named extension when the lifting forks are adjusted laterally inwardly, the V-shaped extension bearing against the forward bearing surface of the bottom carriage part when the lifting fork having the V-shaped extension is shifted beyond the other end of said bottom carriage part.

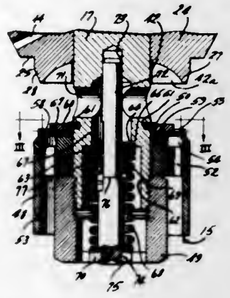
2,668,603
VIBRATION DAMPING DEVICE
William R. Winslow, Culver City, Calif.
Application October 15, 1949, Serial No. 121,470
6 Claims. (Cl. 188—96)

1. A vibration damping device comprising a closed hydraulic cylinder having a piston adapted to move therein defining left and right hydraulic working chambers; a left-to-right one-way conduit and right-to-left one-way conduit; variable constricting means for each of said one-way conduits; actuating means for each of said constricting means including an hydraulic plunger and a cylindrical cavity in which said plunger moves, a check-valved inlet arranged to admit hydraulic liquid from the working chamber having the higher hydraulic pressure to the plunger cavity of said means which serves to constrict the flow in the conduit which carries liquid from the opposite chamber, a spring means for moving said plunger against the hydraulic pressure in



said cavity when substantially no flow is being admitted through said check-valved inlet, and a means for bleeding the hydraulic liquid from said plunger cavity to the working chamber of lower pressure.

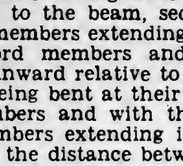
2,668,604
TELESCOPIC SHOCK ABSORBER PISTON CONSTRUCTION
Harry L. Chisholm, Jr., Buffalo, N. Y., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application January 8, 1947, Serial No. 720,853
10 Claims. (Cl. 188—100)



9. In combination in a telescopic shock absorber construction of the character described, a piston rod, a piston mounted on one end portion of the rod, said rod end portion having an axial bore therein and at least one lateral opening from the bore beyond said piston, a valve seat shoulder in said bore, means associated with said piston and rod and supporting a valve stem of smaller diameter than said bore, said stem extending entirely through said bore and into a pilot bore extension of said bore inwardly beyond said lateral opening, and a valve member slidably carried by said stem and seating against said valve seat shoulder.

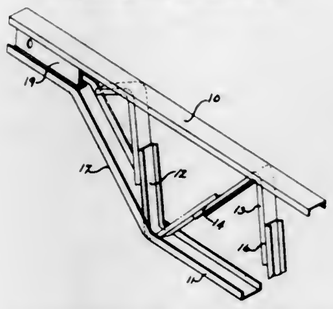
2,668,605
COMBINATION WEDDING AND ENGAGEMENT RING AND UNIT THEREFOR
Jacob H. Schaeffer, Brooklyn, N. Y.
Application August 14, 1948, Serial No. 44,348
3 Claims. (Cl. 189—36)

1. The combination of a member having an opening extending inwardly from one side face thereof, a central upright element arranged centrally in said opening adjacent the open front side thereof, a second member having an opening extending inwardly from one side face thereof and disposed in registry with the opening in the first mentioned member, a U-shaped locking unit formed of spring metal and having its legs tapering gradually outwardly toward their free ends, the closed end portion of said U-shaped locking unit fitting snugly yet removably in the opening in the second mentioned member, said



upright element coacting with the inner opposed sides of the legs of the U-shaped locking unit to force the outer side faces of the legs into engagement with the respective sides of the opening in the first mentioned member to lock the two members together against rotation with respect to each other when the free ends of the legs of the U-shaped locking unit are disposed within the opening in the first mentioned member.

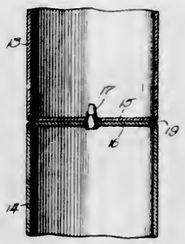
2,668,606
FABRICATED STEEL BEAM
Benjamin F. King, Jacksonville, Fla., assignor to Jacksonville Steel Company, a corporation of Florida
Application June 9, 1948, Serial No. 31,869
2 Claims. (Cl. 189—37)



1. In a fabricated beam, upper and lower channel chord members having their flanges turned inward relative to the beam, sectional channel V-shaped web members extending diagonally between the chord members and having their flanges turned inward relative to the beam, said web members being bent at their junctures with the chord members and with the ends of adjacent web members extending inwardly a distance less than the distance between said chord members and overlapping back to back, means rigidly joining the web members to the chord members at the apex of the bend of each web member, and means joining the adjacent overlapping ends of the web members together.

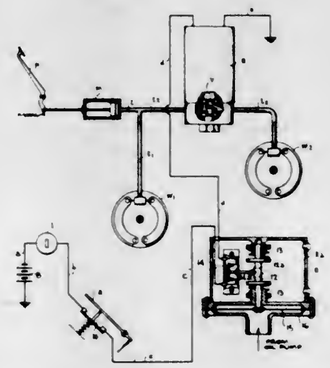
2,668,607
SUPPORTING COLUMN
Lloyd C. Stiles and Robert A. Davis, Birmingham, Ala., assignors to Chicago Bridge and Iron Company, a corporation of Illinois
Application August 12, 1948, Serial No. 43,864
1 Claim. (Cl. 189—38)

A column structure for supporting an elevated liquid storage tank, comprising: a continuous tubular steel column having a plurality of tubular sections permanently joined endwise together forming said continuous column, each section having a diaphragm welded in the end thereof and positioned to uniformly extend a predetermined distance from the end of the section to abut in face to face relationship a similar diaphragm in an adjoining section, said abutting



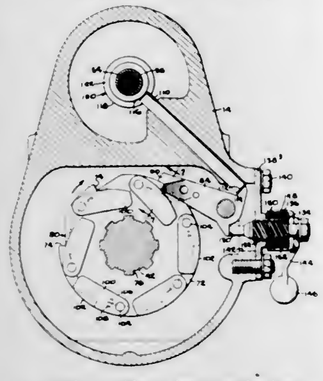
diaphragms spacing the adjoining ends of the column sections and forming with the ends of the sections a peripheral groove thereabout for receiving the weld metal which permanently joins said sections; and column section aligning means in said diaphragms including at least one outwardly extending dowel in one diaphragm with the other diaphragm having an opening to receive the dowel.

2,668,608
BRAKE CONTROL SYSTEM FOR MOTOR VEHICLES
Joseph Weiss and Abraham Weiss, New York, N. Y.; said Joseph Weiss, administrator of said Abraham Weiss, deceased, assignor to Joseph Weiss, individually
Application January 22, 1948, Serial No. 3,736
12 Claims. (Cl. 192—3)



1. Brake control system for a motor vehicle having fluid pressure actuated brakes, said system comprising fluid pressure control means for automatically affecting at least one of said brakes including a valve mechanism, electric means for actuating said valve mechanism including a solenoid, a wheel in said vehicle not affected by said one of said brakes, a governor capable of affecting said electric means and adapted to be actuated from said wheel, said governor including an electric switch controlled thereby, and an accelerator actuated switch adapted to be closed when the accelerator is released and opened when the latter is depressed.

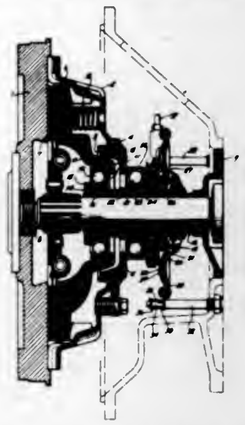
2,668,609
AUTOMOTIVE TRANSMISSION WITH REVERSE BRAKE
Frederick William Dixon, Reigate, England, assignor to Harry Ferguson Research Limited, Abbotswood, Stow-on-the-Wold, England, a British company
Application December 27, 1950, Serial No. 202,893
7 Claims. (Cl. 192—4)



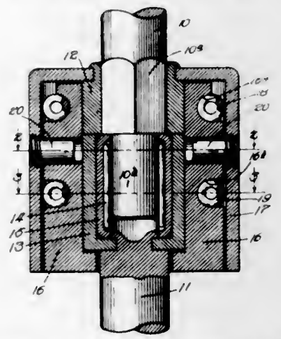
1. In an automotive transmission, an input shaft, an output shaft, a speed-change mechanism operatively connecting said shafts and selectively capable of establishing a forward drive and a reverse speed gear ratio drive through the transmission, a selector element movable from a retracted position to an advanced position for establishing said reverse speed gear ratio drive through the transmission, a one-way braking mechanism for said output shaft for preventing reverse rotation of the latter comprising a ratchet wheel fixedly mounted on said output shaft, a cooperating pawl for said ratchet wheel pivotal on a fixed axis between operative and inoperative positions, a cam member on said selector element, a thrust rod extending between said selector element and pawl and movable from a retracted position wherein one end thereof is in the path of movement of said cam member to an advanced position wherein the other end thereof engages said pawl and moves the same positively to its inoperative position, and said thrust rod being engageable by said cam member when the selector element is moved to its advanced position for moving said thrust rod to its advanced position to render said pawl inoperative.

2,668,610
FLUID RELEASED CLUTCH
Thomas Backus, Kalamazoo, Mich., assignor to Fuller Manufacturing Company, Kalamazoo, Mich., a corporation of Delaware
Application November 7, 1949, Serial No. 125,963
19 Claims. (Cl. 192—91)

1. In a clutch having a rotatable member carrying an axially apertured cover plate and an axially shiftable, axially apertured, pressure plate between said member and said cover plate, the combination of an axially shiftable sleeve extending axially through said cover plate and pressure plate, having toward its inner end a concentric annular anti-friction bearing, having an outer race positioned to engage said pressure plate to move it toward said cover plate on shifting of said sleeve, said sleeve having an inwardly facing abutment toward its outer end, a second sleeve slideably mounted on said first sleeve between said cover plate and said abutment and having toward its inner end a concentric annular anti-friction bearing having an outer race disposed to transmit thrust from said second sleeve to said cover plate on movement of said second sleeve toward said cover plate, said second sleeve having an outwardly facing abutment toward its outer end, and means for causing relative movement between said sleeves to move said pressure plate toward said cover plate comprising an annular casing and an annular fluid-operated diaphragm disposed concentrically to engage said abutments on said sleeves and urge said abutments apart to disengage such clutch.

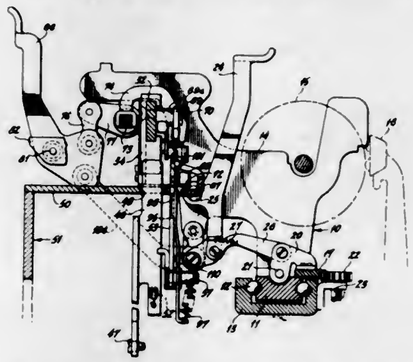


2,668,611
CENTRIFUGALLY RELEASED CLUTCH
Charles H. Sparklin, Chicago, Ill., assignor to Birtman Electric Company, a corporation of Illinois
Application October 27, 1948, Serial No. 56,801
3 Claims. (Cl. 192—104)



1. A friction clutch comprising a driving rotatable member having a substantially circular end section, a driven rotatable member aligned with the first member and having a substantially circular end section whose surface is substantially coextensive with the surface of the end section of the first rotatable member, said driving rotatable member having an extreme end portion extending into a cavity in the adjacent end of the driven rotatable member and rotatable therein, an anti-friction bearing between said extreme end portion and the inner wall of said cavity, a pair of friction members on opposides of said coextensive surfaces arranged to contact said surfaces and bind the rotatable members together for rotation as a unit, spring means extending around in contact with said friction members and urging the friction members in said contact, said friction members being movable away from said surfaces against said spring means under a centrifugal force equivalent to a predetermined speed of rotation, and a limiting means attached to said driving rotatable member and extending around the longitudinal surfaces of said friction members, said limiting means being normally spaced from the friction members for limiting the outward movement of the friction members.

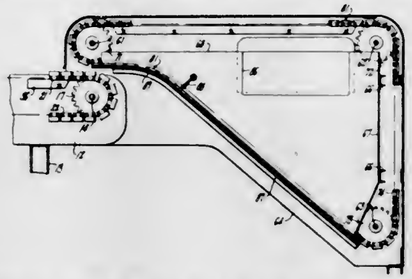
2,668,612
STOP POSITIONING MECHANISM FOR TYPEWRITERS
Harry C. Yaeger, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application December 15, 1949, Serial No. 133,053
23 Claims. (Cl. 197—63)



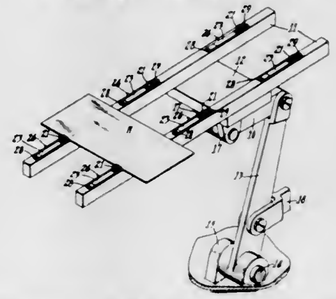
1. In a typewriting machine, a frame, a carriage movable lineally on said frame, a margin stop, means to support said margin stop for adjustment in parallel with the movement of the carriage, means to lock the margin stop in adjusted position and in condition for release, a counterstop with which said margin stop assumes an engaged relation in limiting carriage travel in one direction, a device including a manual control, to release the margin stop locking means and to render the margin stop stationary with respect to the counterstop, and governing means including means adjustable along with the stop to cause said device to function effectively upon application of operating force on said manual control only if the margin stop and said counterstop are in or approximate said engaged relation, or consequently to establishment of such relation through carriage movement during maintenance of operating force on said manual control.

2,668,613
MACHINE FOR HANDLING FRUIT
George W. Ashlock, Jr., Oakland, Calif.
Original application April 19, 1950, Serial No. 156,761. Divided and this application March 15, 1951, Serial No. 215,799
2 Claims. (Cl. 198—33)

1. A machine for feeding dates, prunes and the like elongated fruit having a length substantially greater than its width, the machine comprising fruit receiving means for holding a bulk supply of said fruit; a conveyor movable through said fruit supply and including a plurality of strip members movable through said fruit receiving means; each strip member having a recess along an edge thereof cooperatively positioned with respect to an adjacent edge on the next adjacent strip member to provide a fruit holder for receiving and retaining one of said fruit from the bulk supply of fruit in said fruit receiving means; a skid member for supporting a fruit retained in one of said recesses; and means for moving said conveyor over a path, including a first portion parallel to the skid member wherein the fruit retained in each of said recesses is rolled about and is positioned with its longitudinal axis parallel to the skid plate, and a second portion commencing adjacent a terminal end of said skid plate and diverging away from said first path portion and wherein immediately adjacent strip members separate to release an aligned fruit confined in a recess between said immediately adjacent strip members for a gravital fall.



2,668,614
ADJUSTING MECHANISM FOR FEED DOGS ON CONVEYERS
John Murray Lawson, Simcoe, Ontario, Canada, assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application March 30, 1950, Serial No. 152,891
5 Claims. (Cl. 198—221)

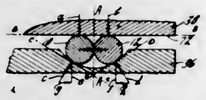


1. In a conveyor for advancing articles along a path of travel, the combination of a movable conveyor member, a feed dog having an elongated mounting carried on said conveyor member, movable clamping members carried by said conveyor member and engaging against opposite ends of said mounting to hold said feed dog in fixed position on said conveyor member, and spaced screw means on said conveyor member respectively for holding said clamping members in clamping engagement with the opposed ends of said feed dog mounting, the engaged surfaces of said clamping members and said mounting being inclined so that loosening of said screw means at one end of said mounting and tightening the screw means at the other end thereof provides shifting movement of said mounting relative to said conveyor member selectively in opposite directions to adjust said feed dog on and relative to said conveyor member.

2,668,615
MEANS FOR SIMULTANEOUSLY FEEDING TWO WIRES

Peter M. Sampatacos, Torrington, Conn., assignor to The Torrington Manufacturing Company, Torrington, Conn., a corporation of Connecticut

Application March 23, 1951, Serial No. 217,209
5 Claims. (Cl. 203—230)

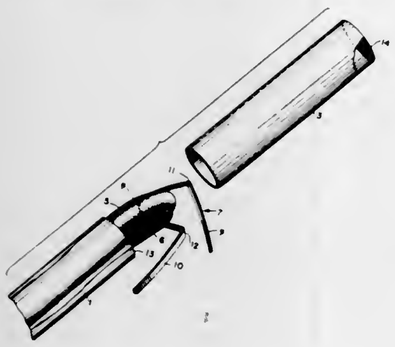


1. A mechanism for longitudinally feeding two separate straight contacting wires in two parallel paths which wires normally have equal diameters but are subject to slight variations from diameter equality, said mechanism comprising in combination, two companion rolls rotatable about parallel transverse axes located at opposite sides of a longitudinal plane through the centers of the paths of the wires to be fed and having continuous annular surfaces which include two transversely spaced continuous annular zones on each roll shaped for point engagements with the corresponding wires in said paths and said annular surfaces of said rolls being otherwise spaced from the wires, said zones of said annular surfaces on the two rolls being arranged in pairs at opposite sides of a longitudinal central plane which is perpendicular to the first said plane and is between the paths of the two wires and said annular surfaces being so shaped that said two zones of each pair at their points of wire engagement are tangent respectively to two longitudinal planes which diverge transversely toward said central longitudinal plane, means connected with at least one of the rolls for applying power to rotate them in opposite directions, and means for pressing one of the rolls toward the other to cause them to grip two wires in said paths and to press said wires against each other and to shift them transversely to slight extents in accordance with any slight variations from diameter equality so as to thus effect simultaneous and uniform feeding.

2,668,616
MERCHANDISE DISPLAY CONTAINER

Roy F. Nylen, Chicago, Ill.

Application October 1, 1951, Serial No. 249,087
3 Claims. (Cl. 206—45.14)

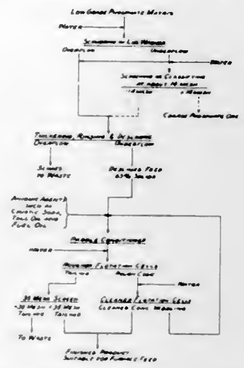


2. A merchandise display comprising an elongated tubular container having at least a portion thereof transparent, a stocking enclosed within said container having a tendency to become heaped in the bottom thereof when the container is placed on end, a tubular closure member for one end of said container and snugly embracing the sides thereof, and a retaining member from which said stocking is suspended within the container, a part of said retaining member being bent to define an end, said end being held between said closure member and the sides of said container, whereby heaping of the stocking is prevented when the container is placed on end, and providing means for lifting the stocking from the container upon removal of said closure member without physically contacting the stocking.

2,668,617
PRODUCTION OF PHOSPHATE FURNACE FEED

Wesley M. Houston, Lakeland, Fla., assignor to Attapulgus Minerals & Chemicals Corporation, a corporation of Maryland

Application October 6, 1949, Serial No. 119,904
2 Claims. (Cl. 209—2)



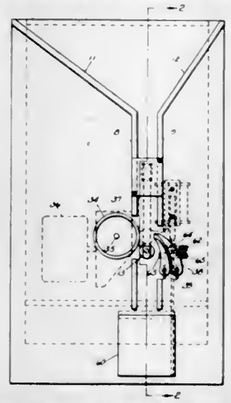
1. The method of producing a phosphate furnace feed which comprises wet scrubbing, disintegrating and desliming a phosphate ore matrix and obtaining therefrom a feed in which the phosphate and silica particles are about —14 mesh, conditioning said deslimed feed in an aqueous pulp with anionic agents having an affinity for the phosphate, subjecting said conditioned pulp to a wet separating treatment, the amount of said reagents being sufficient to produce a phosphate concentrate principally composed of most of the smaller phosphate particles and a large part of the finer silica particles, and a tailing principally composed of the larger phosphate particles and the remaining silica particles, and subjecting said tailing to a classification treatment resulting in the collection from said tailing of the larger phosphate and larger silica particles which are added to said concentrate, thereby producing directly from the phosphate ore matrix a final product which is a suitable phosphate furnace feed.

2,668,618
COMMUTATOR TESTING APPARATUS

Manley Russell Seelhoff, Owosso, Mich., assignor to Redmond Company, Inc., Owosso, Mich., a corporation of Michigan

Application April 29, 1948, Serial No. 24,055
4 Claims. (Cl. 209—81)

1. In apparatus for testing current-conducting units, a pair of testing elements engageable with a unit to be tested, means including a prime mover and a rotating transmission means separate and distinct from the unit to be tested for causing said unit to traverse a complete cycle of operation while engaged by said testing elements, an electrical circuit for controlling the release of said unit from its engaged position, said circuit including a switch operated by one

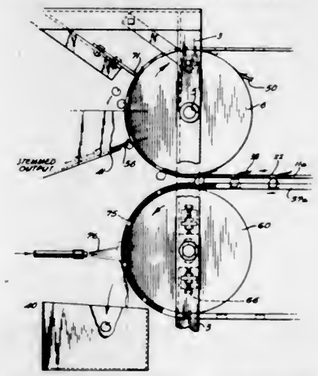


of said testing elements, said circuit being closed at said switch by said one of said testing elements in the absence, and being opened at said switch by said testing element in the presence, of a unit in the engaged position, and means retardedly responsive to the opening operation of said circuit to release said unit from its engaged position.

2,668,619
DEVICE FOR ASSORTING LONG STEMMED CHERRIES FROM SHORT STEMMED CHERRIES

Paul Wormser and David Madrid, San Francisco, Calif., assignors to S & W Fine Foods, Inc., San Francisco, Calif., a corporation of California

Application April 17, 1950, Serial No. 156,256
2 Claims. (Cl. 209—108)

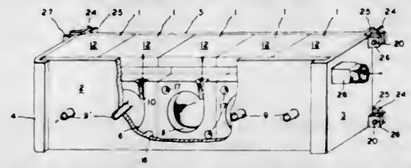


1. In a fruit processing machine wherein stemmed fruit is progressed by a carrier having a substantially horizontal path while each fruit is in a carrier recess having a separable substantially horizontal bottom with the normal stems of said fruit projecting upwardly out of said recess, and wherein said carrier passes upwardly around a drum to cause the projecting normal stems of said fruit to be gripped and to separate the carrier recesses from said bottom, the improvement comprising a barrier having an edge positioned adjacent the lower surface of said carrier as said carrier progresses upwardly away from said bottom, said edge being spaced from said lower surface sufficiently to permit fruit held by the stems thereof to pass said edge, and means above said barrier to separate fruit held by the stems thereof from the gripped stems, whereby fruit with abnormally short stems that are not gripped fall out of said recesses by gravity below said barrier and whereby fruit separated above the barrier from the gripped stems will be separated by said barrier from the short stemmed fruit leaving said carrier below said barrier.

2,668,620
MULTIPLE HYDROCYCLONE

Freerk J. Fontein, Heerlen, Netherlands, assignor to Stamicarbon N. V., Heerlen, Netherlands

Application May 6, 1950, Serial No. 160,426
5 Claims. (Cl. 209—211)

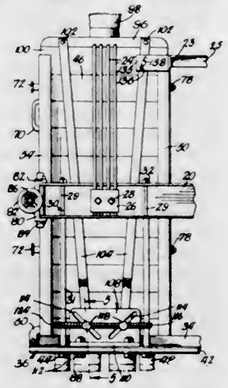


1. A unit block for a multiple-unit hydrocyclone, comprising a rectangular shape having exterior faces and a longitudinal bore of diminishing diameter, and associated therewith a feed inlet debouching tangentially into the larger end of the bore at a right angle thereto as well as a feed channel larger in cross-section than the feed inlet and as long as the shape is wide extending in a direction that is at a right angle to the axis of the bore with which bore the feed inlet connects the feed channel, each shape having a contour holdable by a cover for a multiple of such shapes when such shapes are in face-abutting relationship with the bores parallel and the feed channel of each space aligned thus forming a continuous feed channel.

2,668,621
CLAMP FOR SCREEN FRAMES

Peyton M. Thompson, Lockport, N. Y., assignor to Richmond Manufacturing Company, Lockport, N. Y., a corporation of New York

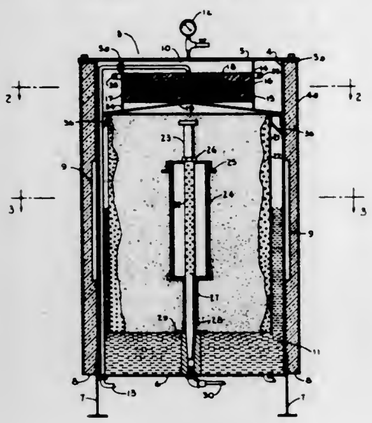
Application November 14, 1949, Serial No. 127,090
11 Claims. (Cl. 209—319)



1. An equalizing holddown for a stack of rectangular screen frames mounted on a support and said stack having a top frame, comprising at least one pair of elongated tension members at

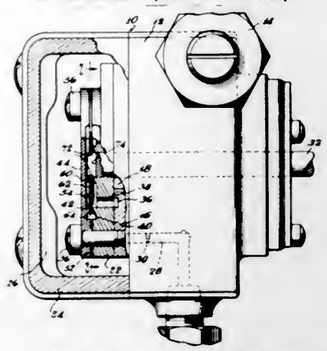
each of two opposite sides of said stack and severally connected at their upper ends to the corners of said top frame to swing parallel with said opposite sides of said stack, a guide member at each of said opposite sides of said stack and secured to said support below each pair of tension members and having a pair of converging surfaces inclined with reference to the horizontal and extending generally parallel with said opposite sides of said stack, a pair of independently floating shoes severally slidably secured to each pair of said surfaces for movement therealong independently of each other, means connecting the lower end of each of said tension members with a corresponding one of said shoes, and a pair of floating, manually operable screws each connecting the shoes of each pair and arranged to positively move said shoes of each pair toward and from each other along said surfaces thereby to raise and lower said top frame and to apply equalized downward pressures at said corners of said top frame against said stack of screen frames.

2,668,622
APPARATUS FOR RECONDITIONING USED OIL
Robert A. Irvine and Roman J. Kramarz, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application May 11, 1950, Serial No. 161,446
21 Claims. (Cl. 210—113.5)



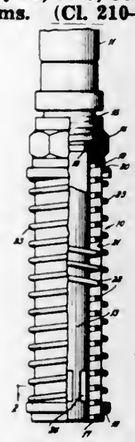
1. An apparatus for reconditioning used oil comprising an outer enclosed chamber divided into upper and lower compartments, means for introducing oil under pressure into the upper compartment of said chamber, diffuser means communicating between the upper and lower compartments for diffusing said oil and extracting coarse solid bodies therefrom as the oil is forced from the upper compartment to the lower compartment, heating means for heating the oil in said lower compartment, a perforated container mounted in said lower compartment and spaced from the walls thereof and adapted to contain a mass of granular filtering material, a porous, ceramic-bonded diffuser tube mounted within said perforated container and disposed equidistantly from the perforated side walls thereof, and a discharge pipe connected to said porous tube and communicating with the interior thereof for removing the reconditioned oil and conveying it to a discharge outlet.

2,668,623
FILTERING APPARATUS
David J. Munroe, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware
Application April 6, 1950, Serial No. 154,390
3 Claims. (Cl. 210—152)



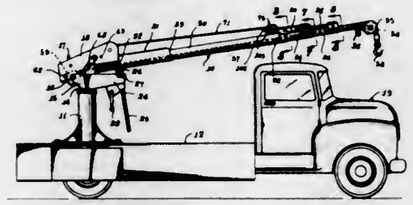
1. A rotatable filter assembly comprising a thin square cleaner blade and circular supporting discs secured to opposite sides of said blade, said discs being dimensioned to leave exposed only the corner portions of said blade, and said discs and blades being centrally apertured for driving cooperation with driving means.

2,668,624
STRAINER ATTACHMENT
Fred W. Wahlin, Oak Park, Ill., assignor to Spraying Systems Co., Bellwood, Ill., a corporation of Illinois
Application July 14, 1949, Serial No. 104,671
2 Claims. (Cl. 210—170)



1. A strainer head comprising an elongated tubular screen and an elongated screen holder extending lengthwise within the screen and having opposed annular seats in which the opposite ends of the screen are secured, said holder having at one end thereof a screen closing member which closes one end of the screen and said holder having an opening leading therefrom at the other end of the screen and communicating with the interior of the screen, an open coil screen cleaning spring surrounding and extending from end to end of the screen and having the convolutions thereof spaced apart and each freely slidable lengthwise of the screen along the outer surface thereof in scraping engagement therewith, said spring being exposed and free to be grasped manually for reciprocation lengthwise of the screen, and abutments at the opposite ends of the screen and against which the opposite ends of the spring abut to confine the spring endwise at the location of the screen, the spring ends being freely retractable along the screen from their respective abutments, and an elongated open coil spring within and internally supporting the screen throughout the length of the latter, the pitch of said internally supporting spring being opposite to that of the aforesaid screen surrounding spring.

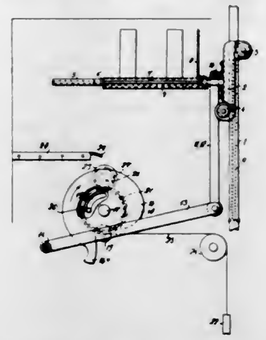
2,668,625
TELESCOPIC HOISTING BOOM
Claude B. Garland, Compton, Calif., assignor of one-half to Carl Frye, Long Beach, Calif.
Application January 9, 1953, Serial No. 330,516
6 Claims. (Cl. 212—55)



1. A hoisting boom structure comprising at least two telescoping tubes, a first of which is adapted for pivotal mounting on a base member, and a second of which is telescopically received within the first tube, said second tube being sufficiently smaller than said first tube to leave a clearance space therebetween, a spacer on the inner end portion of said second tube bearing on the inside of the first tube and positioning said tubes with a cable channel space therebetween extending longitudinally from said spacer to the forward end portion of the first tube, and means for extending the second tube from the first tube including a doubled cable having a bight, an equalizing guide on the forward end portion of the first tube around which the bight of said cable is looped and arranged for tension adjustment movement thereabout, guides mounted at the forward end of said first tube for taking the two cable flights extending forwardly from said equalizing guide and turning them rearwardly into the cable channel space between the first and second tubes, pulleys mounted on the rearward end portion of the second tube around which the cable flights from said guides are looped and extended forwardly in said cable channel space, and pulleys mounted on the forward end portion of the first tube around which the forwardly extending cable flights returning from the last mentioned pulleys are looped and extended rearwardly outside the boom structure, and winding drum means for taking up and paying out the two cable flights extending rearwardly outside the boom structure.

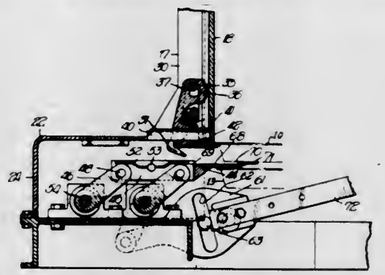
2,668,626
CARD HANDLING MACHINE
Cornelis Hendricus Stuivenberg, Haarlem, Netherlands
Application August 6, 1947, Serial No. 766,764
In Germany March 8, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires March 8, 1965
11 Claims. (Cl. 214—6)

1. An apparatus for sorting cards, comprising in combination, a plurality of receptacles comprising vertically reciprocable carriages, horizontal guide means projecting from said carriages, bottoms on said guide means for receiving the sorted cards, the bottom of each receptacle being slideable on the guide means therefor, resilient means supporting each carriage yieldable under the weight of cards delivered to the associated bottom, receiving means near a lower position of



each receptacle for receiving sorted cards from the bottom thereof, discharge means for reciprocating each said bottom, when the associated receptacle is in the said lower position, and actuating means operable to actuate said means at the said lower position of the respective receptacle for transferring the sorted cards from said respective bottoms to said receiving means.

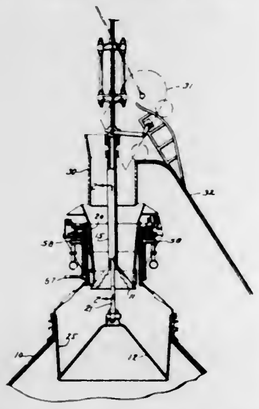
2,668,627
ARTICLE SEPARATING MECHANISM
Justin J. Wetzler, Chicago, Ill., assignor to General Package Corporation, a corporation of Delaware
Application April 30, 1948, Serial No. 24,396
10 Claims. (Cl. 214—8.5)



2. A machine for separating molded pulp cartons of the type which comprise complementary body and cover members each having angularly set peripheral wall members terminating in marginal flange portions and being joined by a hinge-forming portion along a pair of adjacent wall members, said hinge portion defining with the adjoining wall members a downwardly opening recess extending longitudinally of the carton when in the opened out position in which it is molded, said machine comprising a base frame, members extending vertically of said base frame for guiding a nested stack of the cartons in a downward direction, a pair of swingably mounted arms adapted in one position to engage in stack supporting relation beneath the marginal flange of the lowermost carton in the stack, reciprocable means for swinging said arms out of stack supporting position, a plate mounted on said reciprocable means for movement into said down-

wardly opening recess between the lowermost carton and the next adjacent carton in the stack for supporting the stack above said lowermost carton, and means for engaging said lowermost carton and separating it from the next adjacent carton when said plate is moved into stack supporting position and said arms are swung out of stack supporting position.

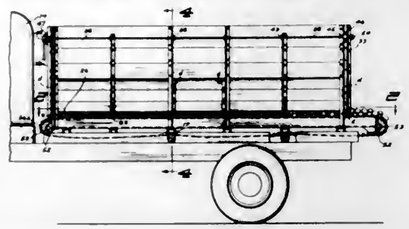
2,668,628
METHOD AND APPARATUS FOR CHARGING BLAST FURNACES
Henry W. Campbell, Shaker Heights, Ohio, and Carl P. Johnson, Chicago, Ill., assignors to Interlake Iron Corporation, Cleveland, Ohio, a corporation of New York
Application August 20, 1951, Serial No. 242,618
17 Claims. (Cl. 214—37)



1. A method of charging a blast furnace, wherein materials to be fed into the furnace are delivered to the top of the furnace in skip carload lots and are dumped into a hopper which is closed at the bottom by a movable bell, and wherein the time required for dumping any skip carload varies with the nature and physical conditions of the material, comprising rotating the hopper continuously from the time that the material commences to leave the car and until all of the material is dumped into the hopper, said rotation being at such speed that the hopper makes substantially one revolution during the time required for the fastest dumping operation of all of the materials to be fed into the furnace, whereby at the completion of each dumping of a skip car, the material in the rotating hopper is substantially level.

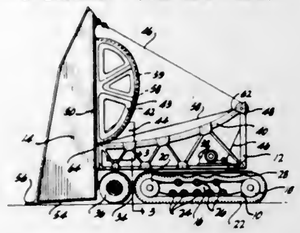
2,668,629
MATERIAL HANDLING AND UNLOADING DEVICE FOR VEHICLES
Eben D. Dahlman, Grandy, Minn.
Application January 2, 1951, Serial No. 203,955
4 Claims. (Cl. 214—83.2)

1. A vehicle box structure for a highway vehicle adapted to be supported upon a wheel-supported frame having in combination, a pair of spaced longitudinally extending members adapted to rest on said frame, a plurality of longitudinally spaced bars extending transversely of and supported on said members, a second pair of laterally spaced longitudinally extending members supported on said bars, a series of longitudinally spaced transversely extending flanged members having vertical and horizontal flanges supported upon said second pair of longitudinally spaced members and projecting at one side of one of said last mentioned members, a series of transversely extending planks or boards freely supported on said flanged members extending to and spaced by said vertical flanges, said planks or boards having a great width compared to the width of said flanges, which latter are of small width, an endless conveyor having a top run moving longitudinally below and closely adjacent the



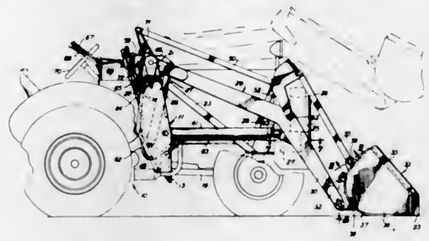
underside of said planks, shafts mounted at the ends of said second mentioned longitudinally extending members, laterally spaced sprockets carried by each of said shafts over which said conveyor runs, and a box having side and end walls extending upwardly from said planks, said planks being individually removable endwise whereby they can be successively removed from a side of said box and said planks constitute practically all of the bottom of said box.

2,668,630
LOADING APPARATUS
Tell Ertl, Worthington, Ohio, assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application January 16, 1951, Serial No. 206,166
3 Claims. (Cl. 214—131)



1. A material loading device which comprises a treaded crawler body provided with motive means for the treads and supporting longitudinal carriage guide wheel tracks, a wheeled carriage, carriage guide wheels attached to the material discharging end of said carriage and riding along said longitudinal tracks, carriage support wheels attached to the material receiving end of said carriage and riding on the ground, overhead curved guide tracks supported at the upper part of said carriage and which rise in a curve of increasing upward slope from the material receiving end of said carriage, a carriage reciprocating shaft connecting said carriage with said crawler body, motive means for reciprocating said shaft to reciprocate said carriage along the ground with respect to said crawler body and independently of crawler body motion, a material receiving and delivering trough in rocking relation to and supported in said overhead trough guide tracks of said carriage, and motive means for imparting a rocking motion to said trough, said device being adapted to the reciprocation of said carriage and rocking of said trough between material receiving and discharging positions independently of each other and of crawler body movement.

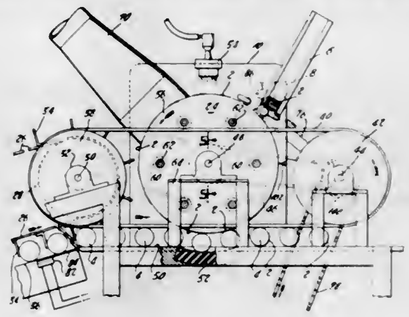
2,668,631
HYDRAULIC LOADER
Harley R. Reese, Huntington Park, Calif., assignor to Reese Engineering Company, Los Angeles, Calif., a company of California
Application October 6, 1947, Serial No. 778,221
2 Claims. (Cl. 214—140)



1. In an attachment for a tractor, the combination of: means including a rectangular frame structure for attachment to a tractor and providing a horizontal transverse axis intermediate ends of the tractor; a pair of forwardly and downwardly extending, angle-shaped lifting arms adapted to be disposed on opposite sides of the tractor, each lifting arm being pivoted at one end at said horizontal axis and pivotally connected at the front end to a work-engaging means; a pair of normally horizontally disposed hydraulically actuated means, each pivotally connected to said frame structure forwardly of the horizontal axis and pivotally connected to an associated arm in proximity to the inner vertex of the included angle formed in the angle-shaped arm; means for controlling the position of said work-engaging means comprising a pair of forwardly facing knee levers, each pivotally connected at one end to an associated arm adjacent the outer vertex of the angle formed in the arm; a pair of front link means, each disposed parallel to a forward reach of an associated arm and pivotally connected at one end to said work-engaging means and at the other end to the other end of the associated knee lever; a pair of bell crank levers, each pivotally connected intermediate its ends to the frame structure at the horizontal axis; a pair of rear link means, each disposed parallel to a rear reach of an arm and pivotally connected to the associated knee lever at the knee thereof and to one end of the associated bell crank lever; and a pair of hydraulically actuated means, each pivotally connected to the end of a forwardly extending leg of the associated bell crank lever and to said frame structure.

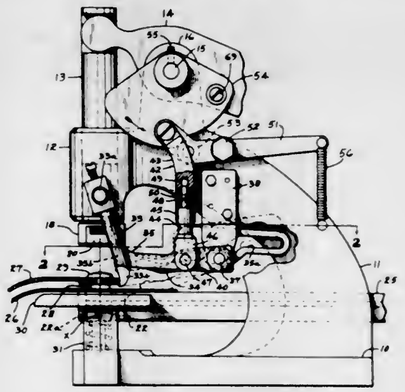
2,668,632
LABELING MACHINE
Richard F. Zimpel, Canajoharie, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a corporation of New York
Application November 8, 1949, Serial No. 126,133
4 Claims. (Cl. 216—52)

1. A machine for applying labels to cylindrical containers of the class described, the labels having heat-sensitive adhesive on one side thereof, having, in combination, a rotatable drum adapted to receive the labels on the peripheral surface thereof with the labels arranged end-to-end and spaced apart and with the adhesive side of the labels outermost during the rotation of the drum in one direction, said drum comprising a plurality of annular disks arranged side by side and spaced apart, suction means for drawing air inwardly from between said disks so as to cause the labels to be retained on said surface of the drum during the rotation of the drum in said direction, means operated in timed relation to said label feeding means for feeding con-



tainers one behind the other and spaced apart to present their cylindrical surfaces to the peripheral surface of the drum, a support for receiving the containers as they engage the drum and over which they are rolled through frictional contact between them and the drum, and means for applying heat to the adhesive on the labels previously to the labels reaching the point of contact between the containers and the drum to cause the labels to be adhesively secured about the cylindrical surfaces of the containers.

2,668,633
KICKOUT AND HOLD-DOWN DEVICE FOR FASTENER ATTACHING MACHINES
Jacob P. Treciokas, Oakville, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application December 27, 1951, Serial No. 263,634
6 Claims. (Cl. 218—6)



1. In combination with a fastener attaching machine having a punch and anvil coacting at a setting station for securing elements of a fastener member together upon a garment in line with a previously applied complemental fastener

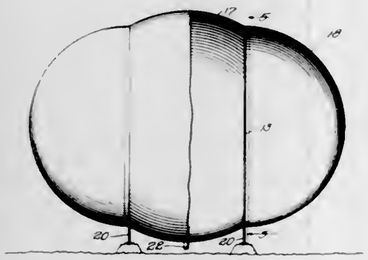
element on an overlying portion of said garment at the setting station, an oscillating lever for operating said punch, a support table, presser means operated from said oscillating lever for clamping a portion of the garment against said table behind the setting station to hold it in the machine, a kick-out means, and means connected to said lever to operate said kick-out means to remove the overlying portion of the garment out of the area of the setting station, said kick-out means being operative after said clamping means has clamped the garment against said table.

2,668,634

SPHERICAL SEGMENT TANK AND METHOD OF MAKING SAME

Christian Arne, Chicago, Ill., assignor to Chicago Bridge & Iron Company, a corporation of Illinois

Application February 23, 1950, Serial No. 145,770
6 Claims. (Cl. 220—1)



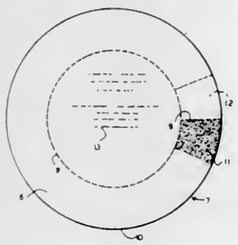
1. A multisphere tank comprising a plurality of spherical segmental shells intersecting along parallel vertical planes, a ring girder interposed between adjacent shells and welded to the shells, each of said shells being welded to a separate portion of said ring girder, and a diaphragm welded to each ring girder, said shells having a common horizontal axis and each of said shells being less than a hemisphere with one shell having a radius greater than the other shells.

2,668,635

CAN SHIELD

Gordon C. Bennett, Winchester, Mass.

Application November 25, 1950, Serial No. 197,619
3 Claims. (Cl. 220—85)



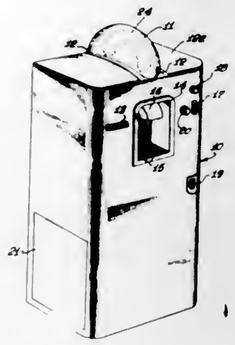
1. A bib blank adapted to be applied around the opening of a paint can comprising a flat sheet of durable, flexible, paper-like material having perforations setting off a bib in the form of an annulus in the sheet with perforations from the outer circumference of the annulus to the inner circumference of the annulus and means for securing in face-to-face relation overlapping portions of the annulus adjacent the perforations through the annulus for tightly securing the bib about the opening of the paint can.

2,668,636

POPCORN DISPENSER EMPLOYING AIR ENTRAINMENT MEANS FOR CORN TRANSFER

Earnest E. Martin, Pasadena, Calif., assignor to Sidney Fischgrund, John E. Beall, and Willis E. Clark, Los Angeles, Calif.

Application August 28, 1948, Serial No. 46,597
21 Claims. (Cl. 222—2)



1. A popcorn dispenser comprising a housing having a transparent wall, a storage chamber within the housing for containing popcorn to be dispensed, an overflow collection chamber within the housing adapted to contain a predetermined quantity of popcorn and to overflow downwardly any corn received in excess of said quantity, means for creating a flow of air in the housing, means for entraining corn from the storage chamber in said flow of air, means directing the corn thus entrained along the inside of said transparent wall within sight from the outside of the housing and then into the collection chamber, coin responsive control means operable to energize said flow creating means, means for automatically deenergizing said flow creating means after its energization for a period sufficient to fill the collection chamber with corn and means for dispensing the corn from the collection chamber.

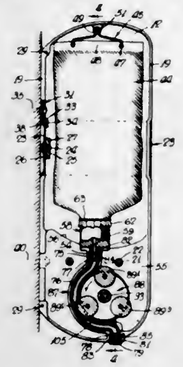
17. A popcorn dispenser comprising a housing, a storage chamber within the housing for containing popcorn to be dispensed, a collection chamber carried by the housing, means for creating a flow of air in the housing, means for entraining corn from the storage chamber in said flow of air and directing the corn thus entrained into the collection chamber, means carried by said housing for receiving a supply of containers, means for ejecting a single container from said supply, control mechanism operable to energize and automatically deenergize said flow creating means and said container ejetcing means in predetermined timed relation to deliver a charge of corn to the collection chamber and eject one container, and means for then dispensing said charge of corn from the collection chamber into the ejected container, said collection chamber and dispensing means being constructed to retain the transferred corn in the collection chamber during said delivery of corn to the collection chamber and during said ejection of said one container.

2,668,637

FLEXIBLE, NONELASTIC CONTAINER OF VISCOUS MATERIAL WITH ROTARY COMPRESS DISCHARGE PUMP

Burdette B. Gilmore, Pelham Manor, N. Y., assignor to West Disinfecting Company, a corporation of New York

Application November 23, 1949, Serial No. 129,134
5 Claims. (Cl. 222—95)



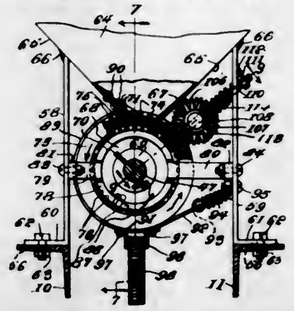
1. A dispensing device comprising a flexible, substantially non-elastic normally collapsed bladder, a compressible self-restoring tube normally biased to open bore condition, having an inlet connected to said bladder and having a discharge outlet, the exterior face of said bladder being exposed to the outer air, said bladder being adapted by its flexible nature to follow and remain in contact with the contents thereof, a plurality of compression members associated with said tube and movable thereagainst and therealong progressively to compress the tube and expel the contents thereof from said outlet and seal the tube at the point of compression, at least one of said members being spaced from said tube, and at least one of said members compressing said tube to seal the latter, whereby the tube in automatically restoring itself to its normal open bore condition at the point of compression as said compression member is moved away therefrom will present a void into which material from the bladder will flow to re-charge the voided tube.

2,668,638

SEED DISTRIBUTOR

Raymond L. Joy, Prosser, Wash., assignor, by decree of distribution, to Laura M. Joy

Application July 28, 1949, Serial No. 107,276
6 Claims. (Cl. 222—139)



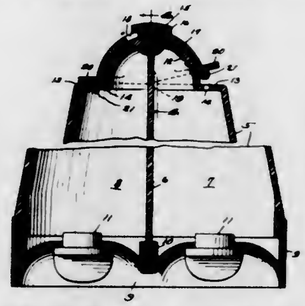
3. In a seed and material dispensing and distributing implement, a frame, a plurality of dispensing units adjustably mounted on said frame and spaced transversely thereof, a transverse shaft adapted to extend beneath said dispensing units, a rotary dispensing wheel for each of said dispensing units having a series of circumferentially spaced pockets in the peripheral surface thereof, means slidably carried by said wheel for ejecting material fed to said pockets, guide rings mounted on one side of said wheel, and spring means carried by said rings and engaging one end of said last means for controlling the said last named means.

2,668,639

SALT AND PEPPER SHAKER

William Daw Scalf, Barbourville, Ky.

Application November 24, 1950, Serial No. 197,416
2 Claims. (Cl. 222—151)



1. A shaker of the class described comprising a body having a dome-shaped end with straight horizontal walls formed at the bottom thereof, said horizontal walls having discharge openings formed therein, a cap slidably mounted on the dome-shaped end, said cap having an elongated transversely disposed rectangular opening, a plug extending outwardly from the dome-shaped head and disposed within the elongated opening of the cap, said plug having a head fitted against the cap restricting outward movement of the cap with respect to the dome-shaped end, flanges extending from the lower edge of the cap, and lugs extending from said flanges movable into the discharge openings, clearing the discharge openings upon sliding movement of the cap over the dome-shaped end.

2,668,640

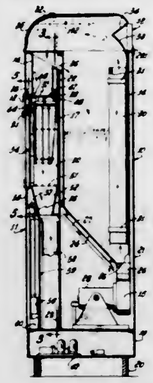
AIR ENTRAINMENT TYPE POPCORN DISPENSER

Willis E. Clark and John E. Beall, Los Angeles, Calif.

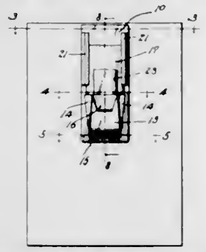
Application March 4, 1950, Serial No. 147,672
7 Claims. (Cl. 222—156)

7. A popcorn dispenser comprising a housing having a top wall with a transparent portion, a storage chamber in the housing for containing popped corn to be dispensed, an overflow collection chamber adapted to contain a predetermined quantity of corn and to overflow downwardly any corn received in excess of said quantity, means for creating a flow of air upwardly in the housing, means for entraining corn from the storage chamber in said flow of air and discharging it upwardly and openly toward the top wall, said last mentioned means including a tube extending vertically within the storage chamber for passing the air and corn upwardly and having an upwardly opening upper discharge end, a baffle formed separately from said tube positioned in the upward path of the corn thus entrained and acting to direct it generally horizontally

along the inside of the transparent portion of the top wall within sight from the outside of the housing and toward the collection chamber, said transparent portion of the top wall having a baffle portion positioned in the horizontal path of the corn and directing it downwardly into the collection chamber, and means for dispensing the corn from the collection chamber.



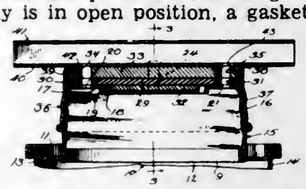
2,668,641
MEASURING SOAPBOX DEVICE
Fredrick M. Martischang, Yosemite National Park, Calif.
Application March 13, 1952, Serial No. 276,299
6 Claims. (Cl. 222—455)



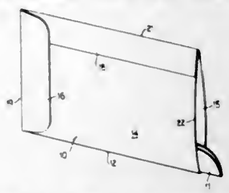
1. A dispensing attachment for boxes of soap powder including an elongated base plate adapted to extend vertically on the upper portion of a box side and having an opening adjacent its upper end, a charge measuring receptacle fitted on the front face of the base plate and having an opening in its rear wall communicating with the opening in the base plate, said receptacle having a constricted opening at its lower end, a delivery cup carried by said base plate and open at its top to receive material from said receptacle, and means to secure said base plate to a box having a discharge opening with the opening in the base plate opposed to the opening in the box.

2,668,642
RECEPTACLE AND COMBINED POURING SPOUT, VENT, AND VALVE THEREFOR
Allan N. Johannesen, Jeffersonville, Ind., assignor to the United States of America as represented by the Secretary of the Army
Application March 26, 1951, Serial No. 217,650
2 Claims. (Cl. 222—484)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A receptacle formed of top, bottom, side and end walls, said top wall provided with an internal filling opening, a tubular collar fixed to the top wall and encircling said filling opening, an inturned flange on the upper end of said collar and forming an external filling opening in alignment with said internal filling opening, said flange formed with diametrically opposed ports, a valve body seated on said flange and being oscillatable thereon to open and closed positions, said valve body being provided with a pair of diametrically spaced ports adapted to register with the ports in said flange when the valve body is in open position, a gasket fixed to the underside of the valve body and provided with diametrically opposed ports registering with the ports in the valve body, a reinforcing plate centrally disposed on the underside of said gasket between the ports of the gasket and disposed in said external filling opening, a horizontally disposed open ended tubular member fixed on the top of the valve body and extending diametrically across the same, said tubular member being formed with a pair of longitudinally spaced ports registering with the ports of the valve body to provide a combined pouring spout and vent for said receptacle.



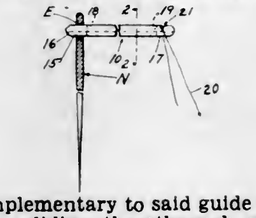
2,668,643
CONTAINER WITH POURING SPOUT AND COMPOSITE BLANK FOR MAKING SAME
Albert J. Irving, Brewster, N. Y., assignor to Permark Company, Inc., New York, N. Y., a corporation of New York
Application April 7, 1950, Serial No. 154,494
5 Claims. (Cl. 222—541)



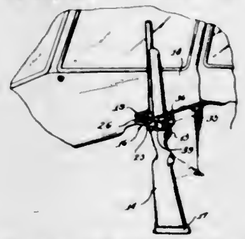
1. An article of the class described comprising a substantially flat two-sided package made from a single blank of flexible material, such as paper, and having a periphery consisting of four edges each consisting of a single fold, and a V-shaped pouring trough within said package at one corner thereof, the bottom edge of the trough being adjacent one edge fold of the package and the side faces of said package being scored to provide a tear line across said one edge fold and the sides of the trough and beyond the upper edges of said trough, the sides of the latter being adhesively secured to the inner surfaces of the side faces of the package at one side only of said tear line.

2,668,644
NEEDLE THREADER
Rufus Bibb Lillard, El Paso, Tex., and William W. Lillard, Beaumont, Calif.; said Rufus Bibb Lillard assignor to said William W. Lillard
Application January 4, 1950, Serial No. 138,076
4 Claims. (Cl. 223—99)

1. For use with a sewing needle having a body pointed at one end, a thread receiving eye in said body adjacent said pointed end, and an irregular shaped cross-section guide opening in said body spaced from and in axial alignment with the thread receiving eye, a needle threader device comprising a threader body element normally disposed in initial work position substantially parallel to said needle body adjacent thereto, a stiff guiding rod member rigidly fastened to said threader body element in alignment with said guide opening and having a length at least as great as the distance between said needle and said body element's initial work position, said guide rod member having a cross-section approximately complementary to said guide opening and adapted for sliding therethrough with a snug, push fit, and a thread pulling device fastened to said threader body element and extending therefrom on the side next to said needle in alignment with said eye, said thread pulling device being spaced from said rod member a distance equal to the distance between said eye and said guide opening, said thread pulling device having a cross-section at its outer end portion materially smaller than the cross-sectional area along the length of said needle of said eye, and a length materially shorter than the length of said guiding rod member.

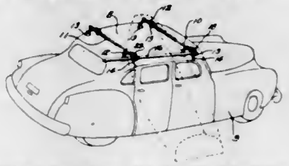


2,668,645
LOCKING GUN HOLDER
Paul M. Pease, Pasadena, Calif., assignor, by direct and mesne assignments, of two-thirds to Arvid Smith, Shelton, Wash., and one-third to F. Morton Pitt, San Gabriel, Calif.
Application June 19, 1950, Serial No. 168,991
10 Claims. (Cl. 224—1)



1. For use in a gun holder of the type having a butt socket secured to a flat horizontal surface to receive the stock butt of an upstanding gun, a clamping fixture adapted to be mounted above said socket to embrace said gun and hold the same in a vertical position, said fixture comprising in combination: a horizontal U-shaped bracket having a pair of longitudinally slotted arms connected at their rearward ends by an integral cross piece; rear clamp means including a forwardly facing substantially vertical channel-shaped member adapted to receive a gun in clamping engagement therein mounted between said arms and secured thereto by a pair of horizontally aligned screw-threaded attachment members extending through said arm slots whereby said clamp member may be adjusted forwardly or rearwardly along said arms and may be tilted about the axis of said attachment members; tool-receiving tightening means for said attachment member disposed adjacent the inner surfaces of said channel member whereby to be accessible only when there is no gun in said channel member; a vertical pivot mounted in the forward end of one of said arms; means forming a latch-receiving recess in the other of said arms; a jaw mounted on said pivot for swinging movement from closed position across the ends of said arms to an open position, said jaw being adapted when in said closed position to secure a gun against said rear clamp means; a movable latch member on said jaw adapted to engage said recess when said jaw is in said closed position; a spring connected to said latch member and anchored on said jaw to urge said latch member in a direction to engage said recess; a manually operable frangible member on said latch member for disengaging the latter from said recess; and a lock mounted on said jaw and adapted to engage said latch member to hold the same in said recess whereby to lock said jaw in said closed position.

2,668,646
CAR TOP CARRIER WITH SIDE LOADING DEVICE
Chester I. Nielsen, West Bend, Wis., assignor to Wesbar Stamping Corporation, West Bend, Wis., a corporation of Wisconsin
Application October 28, 1950, Serial No. 192,709
2 Claims. (Cl. 224—42.1)

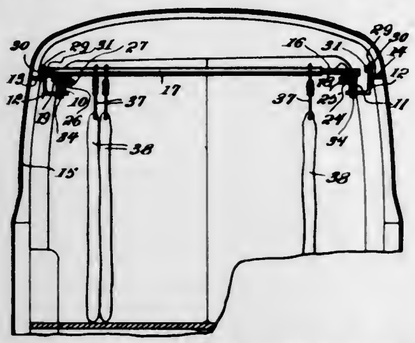


1. A carrier for use in transporting boats or other objects on the tops of automobiles, comprising spaced-apart front and rear transverse bars extending across the automobile top and adapted to have supporting engagement with the article carried, means supporting the bars above and securing them to the automobile top, a loading roller positioned at all times longitudinally of and along one side of the automobile top adjacent a pair of ends of said bars and extending from an end of the front bar substantially beyond the corresponding end of the rear bar to handle a boat or the like which is wider than the distance between said transverse bars, a bracket secured to an end of the front bar, means journalling the front end of said roller on said bracket, a bracket secured to the corresponding end of the rear bar, a portion of said roller adjacent the last-mentioned bracket being of reduced diameter, and means carried by the rear bar bracket forming a semi-bearing engaging only the lower peripheral portion of said reduced portion of the roller whereby the upper peripheral portion of the roller in any turned position remains unobstructed to avoid interference with an object riding on any portion of said roller.

2,668,647
MOTOR VEHICLE GARMENT HANGER RACK
Joe C. Osburn and James Earl Brown, Chattanooga, Tenn.
Application January 31, 1952, Serial No. 269,302
3 Claims. (Cl. 224—42.1)

1. In a garment rack for a motor vehicle having a body with side walls, angle irons positioned

parallel to said side walls and adapted to be mounted on the inner surfaces of the walls, rails spaced from and positioned parallel to said angle irons, brackets suspended from the angle irons and having extended horizontally disposed sections upon which the rails are carried, shoes slid-



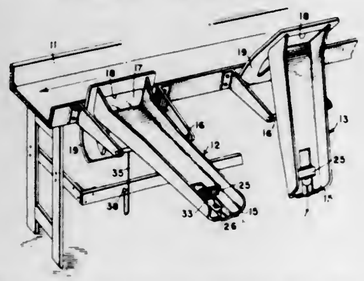
ably mounted on said rails, tubes extended from the shoes on one side of the vehicle, rods carried by the shoes on the opposite side of the vehicle and slidably mounted in said tubes providing telescoping members, and means for clamping the shoes in position upon the rails.

2,668,648

BAG-FILLING DEVICE WITH VALVED PIVOTALLY MOUNTED CHUTE

Earl W. Carlsen, Yakima, Wash., dedicated to the free use of the People in the territory of the United States

Application September 15, 1950, Serial No. 185,708
1 Claim. (Cl. 226—18)



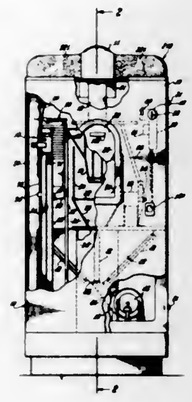
A bag-filling device comprising an open chute having a free end and so shaped that an operator may slip over the chute an open bag to be filled with a fruit or vegetable produce, a side wall having an opening therethrough, said chute being pivotally supported near the wall with its chute-filling end opposite the free end moving past the wall opening as the chute is pivoted from a nearly horizontal chute-loading position to a tilted bag-filling position, a chute opening in the chute-filling end registering with the side wall opening when the chute is in its chute-loading position for passage of the produce through the openings to load the chute, a gate carried by the chute-filling end which registers with the wall opening to close it when the chute is in the bag-filling position, a stop pivotally mounted within the chute near its open free end and spring urged to a position projecting into the chute against which the produce engages while the chute is in the chute-loading position for limiting the quantity of produce loaded in the chute, and means for automatically moving the stop to a position of disengagement with the produce when the chute is moved to the bag-filling position, thus to release the produce and permit it to slide from the chute in the bag as the bag is removed from its position on the chute, said free end of the chute remaining free when the chute is in its bag-filling position so as to permit removal of the bag therefrom, and said stop being within the chute in both its produce-engaging and produce-disengaging positions so as not to interfere with the bag.

2,668,649

APPARATUS FOR EJECTING CONTAINERS AND FILLING POPCORN THEREINTO

Willis E. Clark and John E. Beall, Los Angeles, Calif.

Application March 4, 1950, Serial No. 147,671
13 Claims. (Cl. 226—19)



1. A popcorn dispenser comprising a storage chamber for containing popcorn to be dispensed, a collection chamber, means for transferring corn from the storage chamber into the collection chamber, means for holding a supply of containers, means for feeding a container from said supply holder to a delivery location, common coin responsive control means controlling said corn transferring means and said container feeding means and operable to render them effective to transfer a quantity of corn to the collection chamber and to feed a container to the delivery location, and dispensing means for discharging the corn from said collection chamber and positioned to deliver the corn into the container at said delivery location, said collection chamber and dispensing means being constructed to retain the transferred corn against discharge from the collection chamber during the transfer of corn thereto.

2,668,650

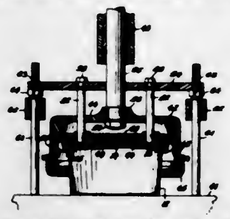
PRESSURE-SUSTAINING SEALING HEAD

John B. Wilson, Indianapolis, Ind., assignor, by mesne assignments, to Huyler's, New York, N. Y., a corporation of New York

Application August 3, 1950, Serial No. 177,450
14 Claims. (Cl. 226—85)

1. In a machine of the class described, a head member, a plastically-deformable element supported concentrically adjacent said head member and having a perimetral portion projecting

beyond the limits of said head member and free for deformation relative thereto, a cowl element coaxially associated with said head member and presenting a perimetral wall toward said perimetral portion of said deformable element for cooperation therewith, one of said elements being axially tapered and said cowl element wall cooperating with said deformable element perimetral portion, upon relative movement between said head member and said cowl element in one direction, to deform said deformable element perim-



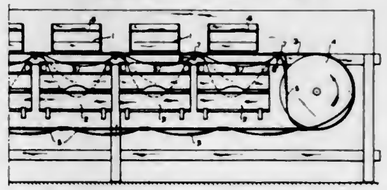
etral portion toward the center of said deformable element, a platform member adjacent said head member, means for effecting relative movement of said platform and said head and cowl toward each other, and a spacer normally fixed relative to one of said members for limiting the approach of said platform member and head member while permitting further approach of said platform member and cowl element to effect relative movement of said head member and cowl element in said one direction.

2,668,651

DEVICE FOR DISCHARGING FRUIT, BULBS, AND SIMILAR ARTICLES FROM TRAVELING CONVEYERS

Andries Wilhelm Jansen, Rijswijk, Netherlands

Application August 12, 1952, Serial No. 303,911
4 Claims. (Cl. 226—93)



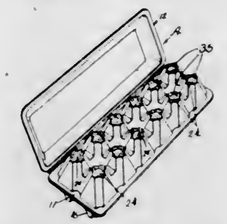
1. In an apparatus, for use in discharging by gravity articles liable to be damaged by impact, in combination, a frame, a transport mechanism movably supported on said frame for conveying said articles, a gate formed on said frame adjacent said mechanism for the discharge therethrough of articles from said mechanism, a receptacle open on top supported on said frame below said gate for receiving through said open top articles discharged by gravity from said gate, and means disposed between said gate and said receptacle and being operable to break the impact of fall of said articles and to deposit the same free from damage into said receptacle, comprising a continuous conveyor having a continuous movement in a horizontal direction above and adjacent said open top of the receptacle, a plurality of flexible aprons at spaced intervals along the conveyor and each having a leading end secured to said conveyor and extending rearwardly from said leading end in a direction opposite to said direction of movement of the conveyor, the rearward trailing end of each of said aprons being unattached and free to flex downwardly from the conveyor as the latter passes over said open top of the receptacle and receives said articles, and supporting means fixedly mounted below the portion of the conveyor which passes over said open top and located at the side of the receptacle which is nearest in the direction from which the successive portions of the conveyor approach said open top, each trailing end successively engaging said supporting means so as to be supported thereby for a short period of time as the apron passes over said receptacle and down into the interior thereof, said apron having a length materially greater than that of said open top.

2,668,652

EGG CARTON

Henry Richard Russell, St. Paul, Minn., assignor, by mesne assignments, to General Package Corporation, Chicago, Ill., a corporation of Delaware

Application May 19, 1948, Serial No. 27,911
2 Claims. (Cl. 229—15)



1. A molded pulp egg carton, comprising a pair of generally similar, cellular tray sections integrally hinged to one another along a bend line and subdivided into rows of egg receiving cells, the cells of one of said sections having substantially flat transverse base portions which are, respectively, spaced from and in coplanar relation to one another, said respective base portions providing substantially flat external surfaces of substantial area and an integral concave cushion element within each surface which extends into the cell, a generally non-cellular, tray-like cover section integrally hinged to one of said sections along a bend line for snug nesting engagement over the other thereof, said cover section being provided with a substantially flat panel between the boundary walls thereof which has flush, surface-to-surface engagement with said external surfaces of said cell base portions, and adhesive securing said cover section panel to said base portion surfaces, but not to said cushion elements, whereby to stiffen and hold said carton against hinging of any of said sections about either of said bend lines. said cushion elements being free of adhesive in order to preserve the cushioning quality of the elements.

2,668,653

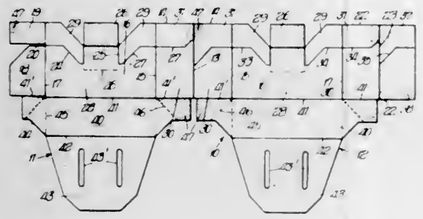
BOTTLE CARRIER

Edwin L. Arneson, Morris, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois

Application February 12, 1949, Serial No. 76,124
8 Claims. (Cl. 229—28)

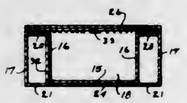
1. A carrier for bottles or like articles, said carrier being formed from a one-piece blank of flexible material and including opposed parallel side walls, bottom defining sections hingedly connected to lower margins of said side walls, at least one of said bottom sections being provided with an integral, one-piece vertical extension disposed parallel to and between said side walls in the erected condition of the carrier, end walls flexibly hinged to opposed end margins of said

side walls and connected transverse and longitudinal partition elements integrally hinged to said side and end walls respectively on hinges generally paralleling the hinging of said walls to one another, said longitudinal partition elements being in parallel clamped side-by-side relation to said vertical extension in the erected condition



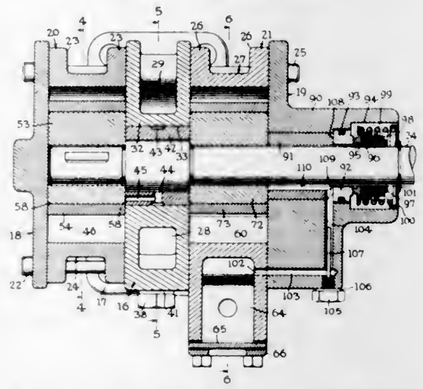
of the carrier, said side walls being provided with flaps integrally hinged thereto by horizontal creases, said flaps extending across termini of the creases hinging said transverse partition elements to said side walls, thereby to block tearing of said transverse partition elements at said termini.

2,668,654
CARTON
William Glidden Freel and Samuel Floyd Jones, London, Ontario, Canada, assignors to William P. Frankenstein, Cincinnati, Ohio
Original application January 21, 1941, Serial No. 375,306. Divided and this application December 11, 1947, Serial No. 791,018
3 Claims. (Cl. 229—31)



1. In a box or carton formed from a single blank comprising a panel forming the carton base having integrally hingedly connected to each edge of said base an extension, said extensions from two opposed edges being respectively scored to each form a hollow end wall, each end wall comprising an inner wall member, a top wall member, an outer wall member of greater length than the inner wall member and a bottom wall member between the outer wall member and bottom panel, said extensions from the remaining edges of the base panel forming between them carton front and back walls each having an inner wall member, an outer wall member and a top wall member together with a cover formed of a pair of panels each of an area substantially equal to the carton area as established by the walls, outer wall members and with one of said panels integrally hingedly connected with the outer wall member of the back wall and the other of said cover panels integrally hingedly connected with the top wall member of said back wall, substantially square diagonally creased corner pieces between adjacent ends of the end walls inner wall members and back and front inner wall members folded on themselves and disposed between the end walls inner and outer wall members and said back and front wall extensions including means whereby outer wall members thereof are hingedly connected with the bottom panel for folding flat into a carton knocked-down position for subsequent erection.

2,668,655
VACUUM PUMP
Henry G. Bowering, Needham, Mass., assignor to Kinney Manufacturing Company, Needham, Mass., a corporation of Massachusetts
Application May 19, 1951, Serial No. 227,181
7 Claims. (Cl. 230—158)

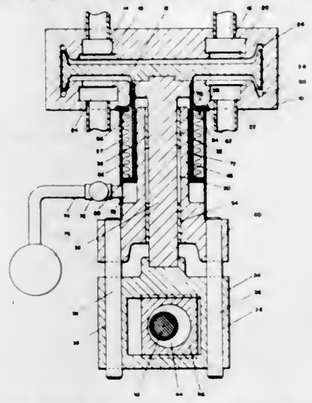


1. A rotary two stage vacuum pump, comprising a housing enclosing two axially alined cylindrical working spaces isolated from each other, said housing including a cast partition which isolates and forms the proximate end walls of said working spaces and includes within itself chambers formed in the operation of casting the partition and retaining the casting skin, said chambers being directly interposed between parallel machined surfaces which are the proximate end surfaces of said two working spaces, there being a central hub in said partition which is approximately surrounded by said chambers and is formed with a bore coaxial with both working spaces; a plain bearing-bushing sealed in the bore of said hub; a shaft rotatably mounted in said bushing and extending into said working spaces; and rotary displacing means arranged to be operated by said shaft, one in each of said working spaces; one of said chambers serving as an oil reservoir and said pump having oil delivery means in communication with said reservoir and including two independent passages, one communicating with the journal intermediate the ends of said bushing and the other opening into said first working space at the partition end thereof.

2,668,656
SYLPHON SEALED PUMP
Eugene T. Booth, Jr., New York, N. Y., and Hugh C. Paxton, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application December 19, 1944, Serial No. 568,899
9 Claims. (Cl. 230—203)

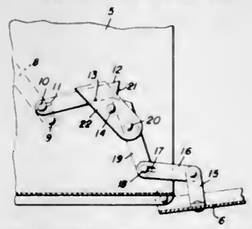
5. In a reciprocating pump, in combination, a cylinder, a piston within said cylinder, said piston being provided with a peripheral flange extending beyond one face thereof to reduce leakage between said cylinder and said piston, said cylinder having a peripheral recess formed in

one end thereof and adapted to receive said flange, the periphery of said piston being spaced from the wall of said cylinder by a small positive operating clearance so that there is no mechanical



contact between said piston periphery and the wall of said cylinder, means for laterally guiding said piston and means for reciprocating said piston within said cylinder.

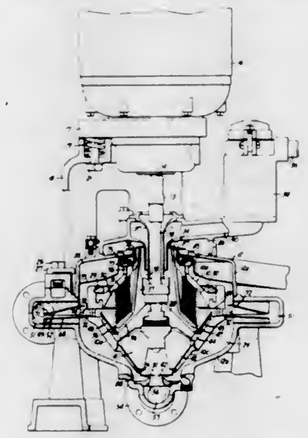
2,668,657
MAILBOX SIGNAL
Horace M. Horton, Gravette, Ark.
Application October 8, 1951, Serial No. 250,291
1 Claim. (Cl. 232—35)



In a mail box, the combination of a vertically swingable flag and a vertically swingable door, a locking bar pivotally connected at one end to the flag, said bar having a locking notch in its lower edge, a locking pin carried by the box and engaged in the notch of the bar to hold the flag in a raised position said locking bar having an inclined free end, a vertically swingable lever pivoted to the box and having its upper end slidably engaging the inclined end of the locking bar to initially raise the bar for releasing the latter from the pin and to subsequently move the bar in a direction to lower the flag, and means connecting the lower end of the lever to the door to actuate the lever in a locking bar releasing and flag lowering movement upon an opening movement of the door.

2,668,658
CENTRIFUGE MACHINE
Albert Peltzer, Sr., San Francisco, Calif., assignor to Merco Centrifugal Co., San Francisco, Calif., a corporation of California
Application March 8, 1950, Serial No. 148,411
5 Claims. (Cl. 233—21)

1. In a centrifuge, a rotor provided with a passage for introduction of feed material and also provided with nozzles for discharge of heavier separated material and a lower part forming an impeller to receive heavier discharge material and to return the same to the rotor, a housing enclosing the rotor, means carried by the housing for receiving material discharged from said nozzles, a return nozzle at the lower end of the housing and disposed beneath the lower end of the impeller and directed upwardly into the same, conduit means for returning a substantial part of the discharged material to said



nozzle, whereby such discharged material is discharged upwardly into the impeller, the housing being formed to provide a space about said nozzle which is adapted to receive material which may spill into the housing from the rotor, and a pick-up ring carried by the lower end of the impeller and provided with vanes operating in said space to act upon material in said space to impel such material into the impeller.

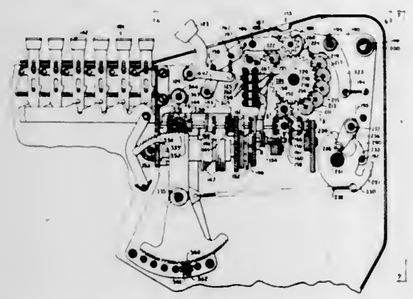
2,668,659
TOTAL PRINTING CONTROL MECHANISM FOR TYPEWRITER-COMPUTERS
Oscar W. Swanson, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Continuation of application Serial No. 732,616, March 5, 1947. This application April 25, 1952, Serial No. 284,231
15 Claims. (Cl. 235—59)



1. A combined typewriting and computing machine having a power means, a platen, type bar mechanisms including a plurality of numerical type bars and at least one non-numerical type bar for printing on said platen, character by character, a totalizer including a plurality of digital representing members, engaging members to connect individually said type bar mechanisms with said power means for actuation of said type bars, analyzing means to analyze, digit by digit, the amount represented by the digital representing wheels of said totalizer, selecting means controlled thereby to select and operate an engaging member corresponding to the analyzed digit of the amount and including means normally op-

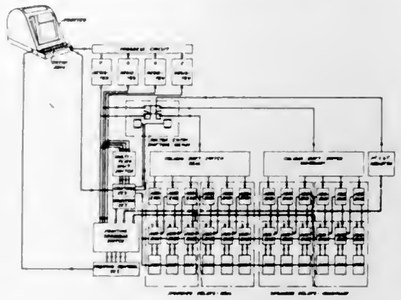
erative to cause selection and operation of the engaging member for said non-numerical type bar mechanism upon the analysis of a digital member representing a non-significant digit of said amount, and means operative during said analysis to disable said non-numerical type bar from printing when its engaging member is connected to said power means by said selecting means.

2,668,660
PLURAL TOTALIZER ADDING MACHINE
Grant C. Ellerbeck, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Original application August 12, 1946, Serial No. 690,004. Divided and this application June 24, 1949, Serial No. 101,007
7 Claims. (Cl. 235—60.27)



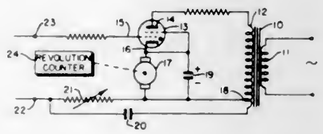
2. In a business machine, a plurality of item totalizers, a grand totalizer, a registration control means including a single series of ordinally arranged value selecting mechanisms, a keyboard for setting a value in said value selecting mechanisms, a registration sign control means, a cyclically operable actuating means, registration transmission mechanism normally operatively disconnected from said totalizers but being adapted to be selectively operatively connected thereto for transmitting the value from said registration control means to said grand totalizer and to a selected one of said item totalizers, said totalizers being normally in non-registering position in which they are disconnected from said transmission mechanism, a series of keys, one for each of said totalizers, for selecting the one of said item totalizers to which the value is to be transmitted by said transmission mechanism, means operated by depression of one of the item totalizer selection keys for moving the selected associated item totalizer to registering position in which it is connected to said transmission mechanism and for initiating operation of said actuating means, means rendered operable by said actuating means for maintaining said actuating means in operation for two cycles, means operated by said actuating means at the conclusion of the first of said two cycles of said actuating means for moving said selected item totalizer to non-registering position, means normally operable by said actuating means for moving said grand totalizer to registering position at the conclusion of said first actuating means cycle for enabling registration of said value in said grand totalizer during the second of said two actuating means cycles, a device settable for total taking operations, means set thereby for adjusting said sign control means for subtractive registration in the selected item totalizer when one of said item totalizer selection keys is depressed, and means operable by setting of said device for a total taking operation for disabling said means for moving said grand totalizer to registering position to thereby prevent entry of a value in said grand totalizer being effected by depression of said item totalizer selection key.

2,668,661
COMPLEX COMPUTER
George R. Stibitz, Boonton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Continuation of abandoned application Serial No. 389,321, April 19, 1941. This application November 23, 1944, Serial No. 564,853
48 Claims. (Cl. 235—61)



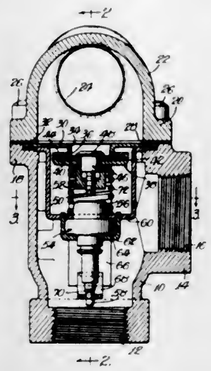
27. A counting relay arrangement for selectively responding to a series of time spaced phenomena, such as a train of impulses, comprising a plurality of relays equal in number to the number of places in a permutation code and means responsive to the impulses of a series for successively operating said relays in accordance with the various combinations and permutations of said code.

2,668,662
INTEGRATOR CIRCUIT
Wilfred Roth, Cambridge, Mass.
Application January 15, 1946, Serial No. 641,349
5 Claims. (Cl. 235—61)



1. In a system for continuously computing the integral of a positive voltage time function comprising, a source of alternating voltage, a transformer whose primary is connected to said source of alternating voltage, a thyratron gas tube whose plate is connected to the secondary of said transformer, a permanent magnet direct current motor whose input is connected to the cathode of said thyratron tube and to the secondary of said transformer, an input circuit for introducing said voltage time function connected to the grid and cathode circuits of said thyratron tube, a condenser-potentiometer phase shift bias network connected into said input circuit, and a mechanical revolution counter whose input is connected mechanically to the output of said motor for indicating the computed integral.

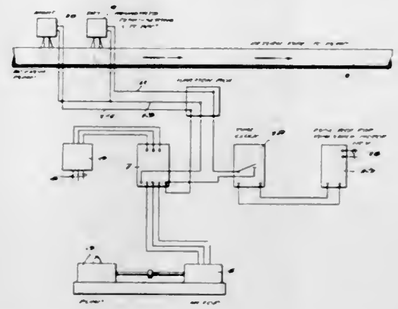
2,668,663
THERMOSTATIC VALVE
Leopold J. Kmiecik, Chicago, Ill., assignor to McDonnell & Miller, Inc., Chicago, Ill., a corporation of Delaware
Application December 17, 1951, Serial No. 262,061
3 Claims. (Cl. 236—93)



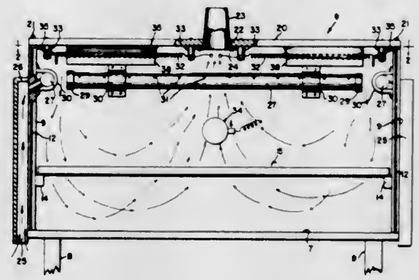
1. A temperature responsive valve comprising body means having a continuously open fluid inlet, a laterally disposed continuously open first fluid outlet and a second fluid outlet, said inlet and said first outlet defining a generally L-shaped path of normal fluid flow, said second outlet being disposed outside of said path of normal fluid flow, a valve seat in said body means disposed in axial alignment with said inlet between said inlet and said second outlet, a valve member movable within said body means for cooperation with said valve seat, said valve member being disposed to the inlet side of said valve seat so as to be held to said seat by fluid pressure of the medium flowing in said path of normal fluid flow, a pressure insensitive-temperature responsive unit disposed in said body means between said inlet and said valve member and between said inlet and said first outlet so as to be disposed directly in the path of normal fluid flow, said pressure insensitive-temperature responsive unit comprising a cylinder element, a relatively movable piston element and temperature responsive actuating means confined between said piston and said cylinder, said piston and cylinder elements being disposed in axial alignment with said inlet and said valve member, a first open frame supporting one of said elements stationarily in said body means, a second open frame operatively connecting the other of said elements and said valve member, and a spring confined between the stationarily supported element of said pressure insensitive-temperature responsive unit and said valve member normally to bias said valve member toward said valve seat.

2,668,664
TEMPERATURE CONTROL FOR HEATING SYSTEMS
Richard Raymond Williams, Chevy Chase, Md.
Application June 6, 1952, Serial No. 292,123
6 Claims. (Cl. 237—8)

2. In a water heating system including a water heating boiler and a water circulating room heating system connected therewith including a return pipe extending to the boiler, the combination with a pump connected in the return pipe for forcing the water therethrough to the boiler and having an electric motor for operating said pump, of a starting switch connected with the motor for connecting a source of power therewith, day and night thermostatic controls connected with the return pipe and respectively connected with the starter switch for controlling the latter in response to temperature conditions of the water in the return pipe, and a time control switch for selectively connecting the thermostatic controls with the starter switch.

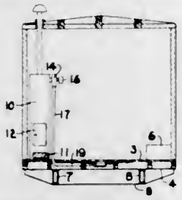


2,668,665
INCUBATOR
Owen P. Schadt, Allentown, Pa., assignor to Horace J. Lichty, Easton, Pa.
Application August 26, 1947, Serial No. 770,689
2 Claims. (Cl. 237—14)



1. In a device of the character described, a closed casing comprising side walls and a top wall, horizontally elongated air reservoir means extending along the inner side of an upper part of a side wall and spaced below said top wall, heater means mounted on said casing and positioned along the side wall above said air reservoir means for heating said reservoir means, deflector means mounted on said casing and positioned along the said side wall and above said heater means for directing heat from said heater means downwardly onto said air reservoir means, said reservoir means having heated air discharge means at the laterally inward side thereof for discharging heated air from said air reservoir means toward the center of said casing, air outlet means in the center of said top wall for exhausting air from the interior of the casing on a level above said deflector means, and vertical conduit means mounted on the exterior of said side wall and exposed to the atmosphere outside of the casing, said conduit means having a lower end open to the atmosphere outside of the casing at a level below said air reservoir means and an upper end communicating solely with the interior of said air reservoir means.

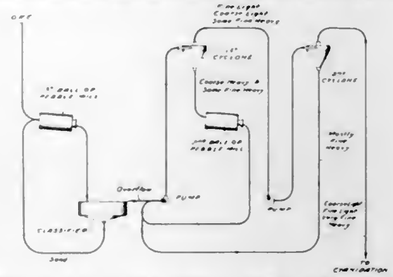
2,668,666
APPARATUS FOR COMPARTMENT HEATING
Rex R. Anderson, Bay City, Mich.
Application December 5, 1949, Serial No. 131,219
2 Claims. (Cl. 237—43)



1. In a house trailer or the like which has insulated side and end walls, an insulated roof, an externally exposed double floor, the top and bottom portions of which are of tight construction and substantially uniform thickness throughout with a relatively shallow air space therebetween, and a heating stove, separate duct-work assemblies in the upper portion of the space between said top and bottom panels of the floor, one of said duct-work assemblies starting approximately opposite the stove and extending forwardly of the house trailer while the other duct-work assembly also starts approximately opposite the stove and extends rearwardly of the house trailer, each of said duct-work assemblies having a heating fluid passageway of substantially U-shape extending lengthwise of and substantially centrally thereof, and also having a heat conducting metal panel means connected to and forming a closure for the upper side of the passageway and extending sidewise from the top thereof substantially parallel to said top floor panel, adjacent thereto, and in contact with the under face of said floor panel in the outer portions of said heat conducting panel, separate electric fan apparatus and ducts connecting the upper portion of said stove to said duct-work assemblies so that air heated by said stove can be forced through either duct-work assembly or both at the same time, each of said duct-work assemblies having at least one outlet register opening into the interior of said house trailer with such register being at the end of said assembly remote from the inlet thereto, both of said duct-work assemblies having a depressed upper portion with a heat insulating panel therein, said panel being between the heating fluid passageway of said duct-work and the upper panel of said floor with said insulating panel preferably being a little wider than said heating fluid passageway and adapted to retard heat flow direct from said passageway up through said upper panel of the floor, the heat insulation material filling the open space between said top and bottom panels of said double floor outside of and below said heating fluid passageway, whereby heat from the heating fluid passing through said passageway is radiated up through the top panel of said floor not only from the upper face of said passageway but also from the upper face of said heat conducting metal panels which extend sidewise therefrom.

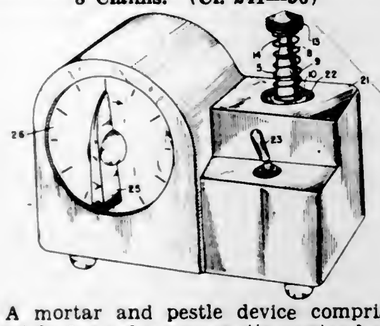
2,668,667
SEPARATION OF COARSE LIGHT MINERALS IN MULTIPLE CYCLONE-SEPARATOR STAGES
Kenneth A. Fern, Johannesburg, Transvaal, Union of South Africa, and Charles F. Allen, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application May 8, 1950, Serial No. 160,772
13 Claims. (Cl. 241—24)

1. A method of preparing ore for recovery processes, the ore containing light minerals and the plurality of heavy minerals, the light minerals having a very much greater average particle size than the heavy minerals which comprises grinding the ore to approximately the relatively coarse particle size at which it is desired to reject the light minerals, subjecting an aqueous suspension of the ground ore to cyclonic separation in the presence of finely divided heavy medium solids in sufficient concentration to produce a separating gravity in the cyclone greater than the specific gravity of the fine minerals whereby a vortex finder discharge is produced containing the light minerals, both coarse and fine, associated with fine heavy mineral medium particles, and there is produced also an apex discharge containing heavy mineral only, subjecting the vortex finder discharge to a second cyclonic separation process at a gravity sufficiently high so that the light minerals are discharged through a vor-



tex finder associated with very fine heavy mineral particles and there is produced an apex discharge containing only heavy mineral particles but of a particle size substantially coarser than the heavy mineral particles in the vortex finder discharge, grinding the apex discharge of the first cyclonic separation process and circulating at least a portion of said ground discharge through the second cyclonic separation process, recirculating the apex discharge from the second cyclonic separation process through the first as the finely divided medium solids and removing the vortex finder discharge from the second cyclonic separation in a form suitable for subjecting it to a separatory process capable of separating the very fine heavy mineral particles from the light particles.

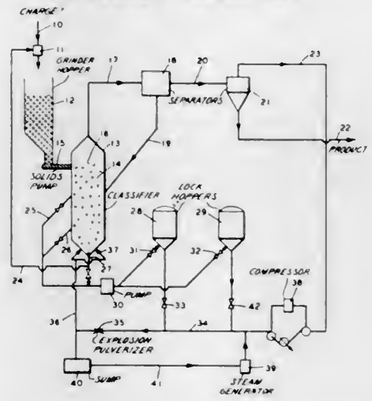
2,668,668
AUTOMATIC MORTAR AND PESTLE DEVICE
Antony Doschek, Crafton, Pa., assignor to Joseph S. Frost, Crafton, Pa., and James F. Caulley, Brownsville, Pa.
Application July 5, 1950, Serial No. 172,151
8 Claims. (Cl. 241—36)



1. A mortar and pestle device comprising a separately formed nonmagnetic mortar having a spring seat secured thereto; a magnetic pestle located in operative relationship with said mortar;

a coiled spring removably secured to said pestle, surrounding the upper portion of said mortar and supported on said spring seat; a casing supporting said mortar and apertured to receive the lower portion thereof; a magnetic coil located within said casing and surrounding the lower portion of said mortar; means for periodically energizing said coil to impart cyclic motion to said mortar; and timing means for controlling said first mentioned means.

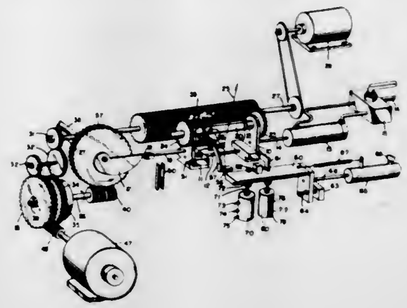
2,668,669
APPARATUS FOR THE EXPLOSIVE PULVERIZATION OF COAL
Joseph F. Skelly, New York, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application September 18, 1947, Serial No. 774,867
2 Claims. (Cl. 241—39)



1. An apparatus for pulverizing material which includes: a vertically elongated vessel; means for introducing granulated solid material into the upper portion of said vessel; means for introducing a gasiform suspension medium upwardly through said vessel to maintain particles therein in a turbulent fluidized state to cause them to classify themselves vertically according to size; lock hopper means; means for withdrawing fluidized solid particles from said vessel and transferring them to said lock hopper means; means for withdrawing said solid particles under pressure from said lock hoppers and introducing them into a high pressure gasiform medium to form a suspension and means for suddenly reducing the pressure thereon to produce explosive pulverization; means for reintroducing the gasiform medium and pulverized solid products from said explosion pulverization upwardly through said elongated vessel to maintain the contents thereof in the fluidized condition; means for withdrawing a finely pulverized product from the upper portion of said vessel; and means for withdrawing and recompressing gasiform medium from said vessel for reuse in said pressure reducing means.

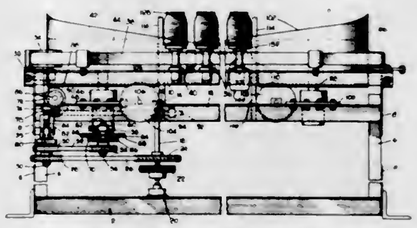
2,668,670
COIL WINDING MACHINE
De Witt T. Van Alen, Delavan, Wis., assignor to The George W. Borg Corporation, Delavan, Wis., a corporation of Delaware
Application December 15, 1947, Serial No. 791,820
8 Claims. (Cl. 242—9)

1. In a coil winding machine, means for rotating a strip of insulating material to wind a resistance wire thereon, means for moving said strip longitudinally to space the turns of the winding a predetermined distance apart, means for comparing the rate at which the resistance of the winding increases during the winding operation with a standard rate, means controlled by said comparing means for automatically



changing the spacing if the rate at which the resistance of the winding increases is too fast or too slow said means for changing the spacing including gearing between the respective means for rotating and for moving the strip, and said gearing including a differential mechanism provided with separate motor means connected to and controlled by said comparing means.

2,668,671
WINDING MACHINE
Norman E. Klein, Stamford, Conn., assignor to Deering Milliken Research Trust, Greenwich, Conn.
Application December 7, 1949, Serial No. 131,538
11 Claims. (Cl. 242—35.5)



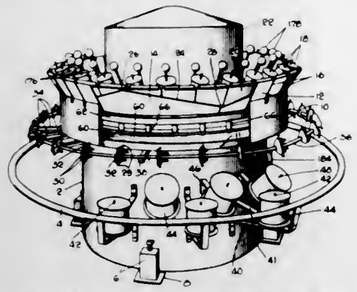
1. A textile winding machine comprising a plurality of substantially vertically disposed rotatable spindles adapted to support bobbins, drive means for said spindles, an endless sheet member having a contour along one edge defining a succession of hills and dales, the difference between the maximum and minimum widths of the sheet member being substantially equal to the length of the package to be wound on a bobbin, means for moving said sheet member unidirectionally in a fixed closed path adjacent said spindles, support means for yarn supply packages and means for guiding yarn from a supply package to a bobbin, said guide means being positioned to cause the contoured edge of the sheet member to be engaged by the yarn in its travel to a bobbin whereby the yarn is caused to traverse the bobbin in accordance with the hills and dales of the contoured edge of said sheet member.

2,668,672

WINDING MACHINE

Norman E. Klein, Pendleton, S. C., assignor to Deering Milliken Research Trust, New York, N. Y.

Application November 10, 1951, Serial No. 255,779
13 Claims. (Cl. 242—35.5)



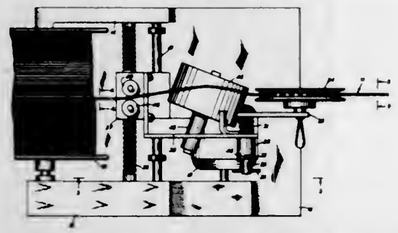
1. A textile winding machine comprising in combination a vertically disposed post, a supply creel disosed about said post, a circular platform supported by said post and above said creel, a plurality of rotatable spindles arranged on said platform in a generally circular array about the post as an axis, a traverse rotor rotatably mounted on said post below said platform, said rotor having a contoured edge positioned for travel of yarn thereover in transit from packages in said creel to take-up bobbins on said spindles, and means carried by said platform for rotating said spindles about their respective axes and for rotating said traverse rotor about the axis of said post.

2,668,673

METHOD OF AND APPARATUS FOR REELING FILAMENTARY ARTICLES

Charles B. Clotworthy, Jr., Brooklandville, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application July 24, 1950, Serial No. 175,569
5 Claims. (Cl. 242—54)



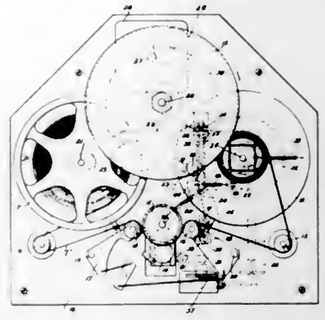
1. An apparatus for reeling filamentary articles having a plurality of elements parallel to the longitudinal axis of the article, which comprises a reel for coiling such an article in a series of convolutions around the winding surface thereof, means for distributing the convolutions uniformly across the winding surface of the reel, and a roller secured on said distributing means so as to be engaged by the article being reeled, said roller being mounted in such a position with respect to the longitudinal axis of the article that it rotates the article about its longitudinal axis a predetermined number of turns at successive intervals as it is wound on the reel, said rotation of the article varying the relative positions of the elements throughout each convolution wound on the reel, thereby preventing the elements from buckling as the article is wound on the reel.

2,668,674

DRIVE MECHANISM FOR MAGNETIC TAPE RECORD MACHINE

Bruce Roberts, Philadelphia, Pa., assignor to The International Electronics Company, Philadelphia, Pa., a corporation of Pennsylvania

Application April 26, 1947, Serial No. 744,272
11 Claims. (Cl. 242—55)



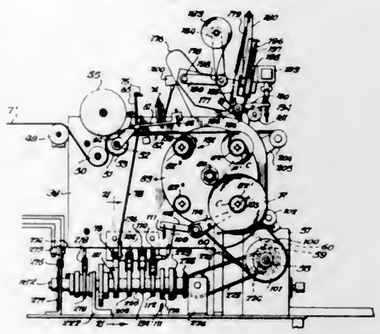
1. In equipment for use with magnetic tape records and comprising a pair of reels and a rotative capstan adapted to engage a tape record to feed such record between the reels for scanning purposes, mechanism for alternatively rotating the capsan in either direction comprising a driven element connected with the capstan, a pair of driving elements adapted to rotate in opposite directions, and a shiftable intermediate drive element adapted alternatively to interconnect said driven element with either one of said driving elements, clutch devices respectively connecting said pair of driving elements with the reels all of said elements having friction driving surfaces and said intermediate drive element being shiftable into engagement with each of the driving elements at the side thereof at which rotation of the driving element tends to move the intermediate element into engagement with the driven element.

2,668,675

WINDING MACHINE

Henry J. Wolfe, Akron, N. Y., assignor to National Gypsum Company, Clarence Center, N. Y., a corporation of New York

Application August 6, 1948, Serial No. 42,829
6 Claims. (Cl. 242—56)



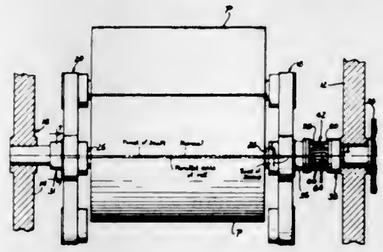
1. In a winding machine for converting a continuously traveling web into rolls and having a mandrel, means arranged to wind the web around said mandrel, and means arranged to sever the web after a predetermined length thereof has been wound around said mandrel thereby to form a roll, the combination therewith of means arranged to secure the trailing end of the severed web to said roll comprising a roller movable toward and away from the periphery of said roll and normally spaced therefrom, a clamping member movable toward and away from said roller and normally clamping a strip of gummed tape therebetween to hold one end of said strip between said roller and said periphery, means arranged to move said roller toward said periphery thereby to press said one end of said strip against said roll in advance of the severed edge of said trailing end, means arranged to move said clamping member away from said roller thereby to release said strip, and knife means arranged to sever said strip at a place in rear of said severed edge.

2,668,676

WEB SUPPLY REEL FOR PRINTING PRESSES

Henry L. McWhorter, Hinsdale, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois

Application May 3, 1952, Serial No. 285,921
19 Claims. (Cl. 242—58)



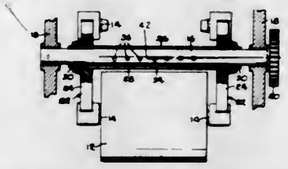
15. In a reel for supporting a plurality of web rolls for a printing press, the combination comprising a rotatably mounted horizontal shaft, first supporting means connected to said shaft and having a plurality of first roll center supporting elements spaced about said shaft for rotatably supporting one end of each web roll, indexing means connected to said shaft at a point spaced therealong from said first supporting means for rotating said shaft to bring each roll in succession into a predetermined position in which the roll will be unwound, second supporting means connected to said shaft and having a plurality of second roll center supporting elements spaced about said shaft for supporting the other end of each roll, said second supporting means being disposed along said shaft between said first supporting means and said indexing means, said first supporting means being subject to varying torsional deflection relative to said indexing means as said shaft is rotated and the rolls are unwound, said torsional deflection resulting in lateral deflection of said first roll center supporting elements about the axis of said shaft, and said second supporting means including spring means interposed between said second roll center supporting elements and said shaft to provide for lateral deflection of said second roll center supporting elements about the axis of said shaft by an amount corresponding generally to said lateral deflection of said first roll center supporting elements to avoid misalinement between said first and second roll center supporting elements.

2,668,677

WEB SUPPLY REEL FOR PRINTING PRESSES

Francois N. Palmatier, Arlington Heights, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois

Application May 3, 1952, Serial No. 285,876
5 Claims. (Cl. 242—58)



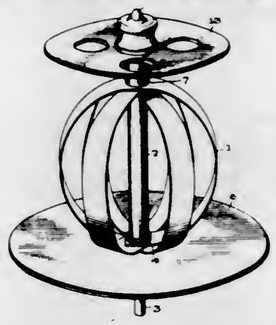
1. A web supply reel for a printing press comprising, in combination, a horizontal shaft supported for rotation, means including a gear on one end of the shaft for rotating the same, a sleeve mounted on the shaft, a pair of spindle supports releasably secured to the sleeve, a plurality of horizontal roll spindle elements clustered around the shaft in radially spaced relation thereto and supported on the spindle supports, and means for securing the sleeve to the shaft at a point midway between the spindle supports so as to equalize the torsional deflection of the spindle supports when the reel is loaded with paper rolls and subjected to the pull of the web.

2,668,678

CAKE EXPANDER

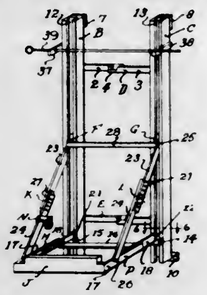
Lonnie Abraham Little, Elizabethton, and Terry Lester Williams, Watauga, Tenn., assignors to North American Rayon Corporation, New York, N. Y., a corporation of Delaware

Application September 9, 1948, Serial No. 48,403
9 Claims. (Cl. 242—130)



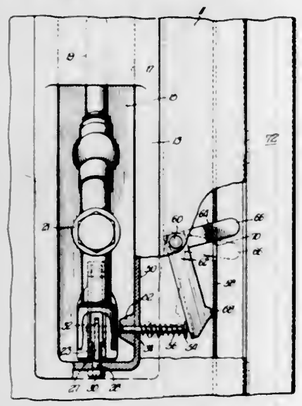
1. A device for supporting hollow cakes of synthetic yarn or thread after processing the same and while unwinding the yarn or thread therefrom comprising a shaft, a hollow bipolar globular structure composed of resilient longitude-like members, said members having holes formed therein for receiving said shaft so that said shaft holds said members arched around it to form said globular structure, the arched portions of said members being substantially equidistantly spaced from each other for yieldingly engaging with the interior walls of the hollow portion of said cakes and exerting an outwardly directed force thereon and extending from one pole to another pole of said bipolar globular structure, means for fastening said members at each pole of said structure for retaining said resilient longitude-like members in side-by-side and fixed outwardly bowed spaced relation between said poles.

2,668,679
OUTBOARD MOTOR SUPPORT
Russell H. Harneit, New Rochelle, N. Y.
Application December 18, 1950, Serial No. 201,263
2 Claims. (Cl. 248—4)



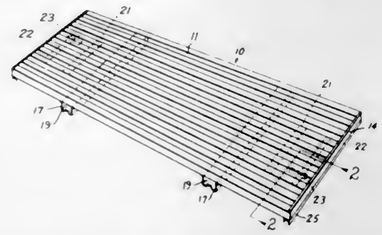
1. In a device for quickly in its entirety attaching to or detaching from a boat a support and carrier for an outboard propelling motor: a pair of elongated guide elements each of which is provided in its front face with a longitudinally extending guideway, a hook on the rear face of each guide element adjacent each of its ends and adapted to attach the guides to the boat with the guides extending vertically and in spaced parallel relationship, an elongated slide disposed in each guideway for vertical sliding movement therein, a substantially horizontally disposed platform secured to and extending rearwardly from the lower ends of the slides, braces extending from adjacent the outer rear corners of the platform to the upper ends of the slides, a brace interconnecting the upper and lower ends respectively of the guide elements, said braces in addition to said hook attachment of the guides to the boat serving to add rigidity to the said positioning of the guides.

2,668,680
NOZZLE LOCK
Homer D. Moser, Fort Wayne, Ind., assignor to The Wayne Pump Company, Fort Wayne, Ind., a corporation of Maryland
Application May 19, 1951, Serial No. 227,265
1 Claim. (Cl. 248—75)



A nozzle lock for dispensing apparatus comprising a housing having a recessed nozzle receptacle, a nozzle hook within the receptacle and a nozzle having a valve lever guard frame fitting adjacent the nozzle hook, the nozzle hook and a lateral wall of the nozzle receptacle being formed with aligned openings, the opening in the nozzle lock being within the nozzle guard frame when the nozzle is seated in the receptacle, a lock pin having an end normally within the receptacle wall opening, the pin extending outwardly of the receptacle within the housing, a spring normally urging the lock pin away from the receptacle, a pivoted lock pin actuating lever within the housing, said lever engaging the pin, a stop for limiting movement of the lever to hold the end of the pin in the receptacle wall opening, the lever having an arm for moving the lever to force the lock pin into the receptacle housing and into the nozzle hook opening to lock the nozzle against removal, and means engaging the lever arm for holding the lock pin in locked position.

2,668,681
ARTICLE HANDLING MEANS
John W. Kappen, Dayton, Ohio
Application February 21, 1948, Serial No. 10,100
1 Claim. (Cl. 248—120)

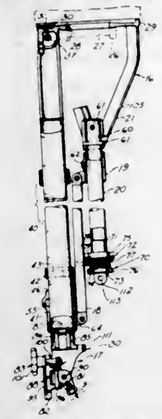


In a pallet of sheet material, the combination of a rectangular platform of solid material having longitudinally extending corrugations therein, the side walls of the corrugations being substantially parallel, a filler strip at each end of the platform for covering the corrugations in the platform, a trackway at each end of the platform comprising a channel iron the base of which is attached to the bottom of the depressions in the platform, the corrugations at the side of the platform having reinforcing members inserted therein and extending the length of said corrugations, and combined supports and skid members longitudinally spaced transversely short of the respective ends of the platform, said support and skid members being U-shaped and each having a reinforcing member enclosed therein, said support and skid members extending lower than the trackway at each end of the platform.

2,668,682
FOLDING TRIPOD CONSTRUCTION
Bruce H. Dalton, Los Angeles, Calif., assignor, by mesne assignments, to Houston-Fearless Corporation, a corporation of California
Application August 22, 1949, Serial No. 111,593
15 Claims. (Cl. 248—169)

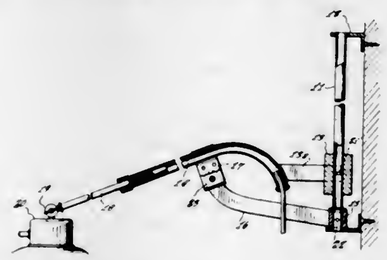
6. In a foldable support of the class having a central body and a plurality of legs hinged thereto at their upper ends for convergent and divergent swinging movement of the lower ends of said legs between extended and folded positions, locking means for said legs comprising in combination: a plurality of first latch members each connected to one of said legs and positioned adjacent an inner side thereof whereby to move toward each other when said legs converge; and a second single latch member movably mounted on said body, spaced below the top thereof and

normally out of engagement with said first latch members when said legs are extended, said second latch member being aligned with the path of swinging movement of said first latch members whereby to make common engagement with all of said first latch members when said legs are folded to hold all of said legs in a folded posi-



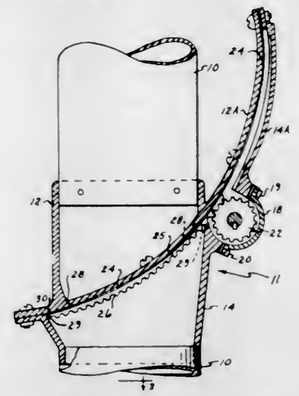
tion in which they are substantially mutually parallel, said second latch member being further adapted to be moved manually selectively to simultaneously engage or disengage all of said first latch members whereby respectively, to secure said legs in folded position or to release said legs for unfolding movement thereof.

2,668,683
ADJUSTABLE SUPPORTING DEVICE
Karl B. Freéd, Stockholm, Sweden
Original application October 21, 1948, Serial No. 55,795. Divided and this application April 17, 1951, Serial No. 221,473
6 Claims. (Cl. 248—280)



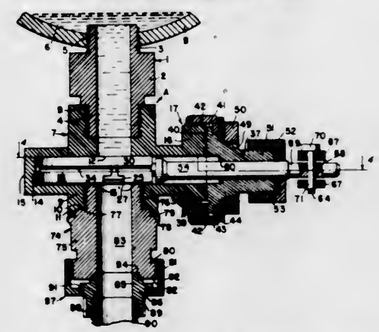
1. An adjustable supporting device comprising a main arm, a guide member attached to a fixed surface, a sleeve-shaped body slidably arranged on said guide member and rotatable thereon, a supporting arm for said main arm, an interconnecting element between said two arms, said supporting arm being with one end pivotally mounted at one end of said guide member, and journaled with its other end to said interconnecting element, said element being frictionally held on said main arm, an extension slidingly arranged in said main arm capable of supporting a load, said supporting arm and said sleeve-shaped body being capable of movement to a position whereby the weight of the main arm including its load is counterbalanced so that the main arm will be retained in any desired position without further means of fixation.

2,668,684
DUSTPROOF DAMPER
Walter F. Metzger, Keyport, N. J.
Application June 18, 1949, Serial No. 99,969
2 Claims. (Cl. 251—54)



1. A dustproof damper for granular material mounted in a duct comprising a casing that is divided into two enclosing parts, each part provided with an open throat to fit said duct, said throats positioned in opposed relationship, said two portions of said casing formed with mating faces, said mating faces providing an enclosed guide track for a damper, said guide track being curved to lie adjacent to the duct, a damper formed to fit between said tracks and in one position to completely close said duct, a rack and pinion with a shaft, said rack affixed to said damper, said pinion meshing with said rack and affixed to said shaft, said shaft supported by a bearing mounted between the two mating housings, means to move said damper between the open and closed position with the rotation of said shaft.

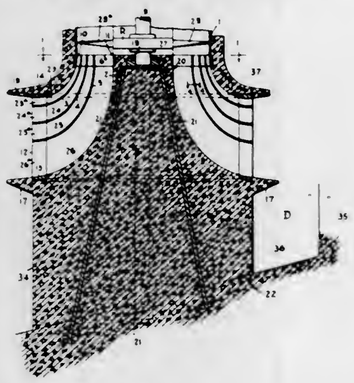
2,668,685
BLOWOFF VALVE FOR LOCOMOTIVE BOILERS
Charles Ocker, New Smyrna Beach, Fla.
Application June 26, 1947, Serial No. 757,244
4 Claims. (Cl. 251—65)



1. In a valve assembly, a casing formed with aligned fluid passages, a valve block mounted within the casing and slidable in a chamber intercepting its passages, said block being mounted within the chamber for limited movement transversely and vertically with respect to its sliding movement and including a fluid passage and a valve section alternately operable into registering position relative to said fluid passages and

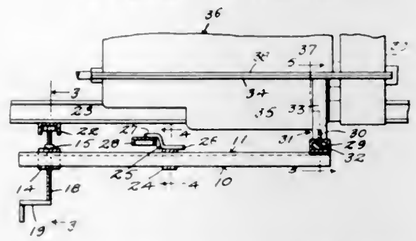
pressure means in connection with said block for positioning the block for easy reciprocatory movement said pressure means including a source of fluid under pressure and a plurality of passageways formed exteriorly and interiorly of the block for directing said fluid around and interiorly of the block to space the latter from the walls of said chamber, whereby said block during its sliding movement is adapted to float within said chamber when subjected to fluid pressure.

2,668,686
POLYGON CONE DRAFT TUBE
Percy H. Thomas, Washington, D. C.
Application February 10, 1949, Serial No. 75,680
5 Claims. (Cl. 253—117)



1. In a water wheel system in which the discharge of the wheel is spread through a plurality of concentric water shells, expanding all the way to the tail race, and emerging along all radii with a predominantly horizontal direction, the combination of a water wheel, including an enlarged hub and a plurality of blades, a surrounding casing, said hub and casing coacting to form an annular water passage, a shaft carrying said wheel and having a bearing below said wheel, a load bearing pedestal concentric with and carrying said bearing and registering at the top with said hub and said casing, a concrete setting for said wheel having an overhanging portion concentric with and surrounding said pedestal, the positions and surfaces of said pedestal and said overhanging portion forming a generally bell shaped water passage between them, gradually and continuously expanding from its entrance to its exit, a plurality of concentric deflectors located therein, dividing it into subpassages, said deflectors being built up from a plurality of side elements, each consisting of a four sided metal plate, narrow at the entrance end, wide at the exit end, and smoothly curved through its length, concave upward, the width and distribution of the side elements proportioned to cause the adjacent plate edges to meet at an angle along a curved line, said plates of each deflector being firmly fastened together along said line, to form a rigid polygonal ring belt surface surrounding said pedestal, the subdivided passages being proportioned according to the following rule; the thickness of each water passage expands regularly from entrance to exit, maintaining a constant angle with the median line and each side to secure efficient retardation of the water; said water subpassages having the same ratio of outlet to inlet area for all subpassages to secure equal water velocities at the exits; and the curvatures and spacings of the opposed surfaces of the pedestal and the overhanging portion of the setting are shaped to conform to the above rule applied to the subpassages and deflectors, the later being rendered rigid by streamline supporting spacers, extending between and secured to the deflectors and in the pedestal and the overhanging portion at the entrance and exit ends thereof, said spacers at the entrance end being horizontal and those at the exit end being vertical.

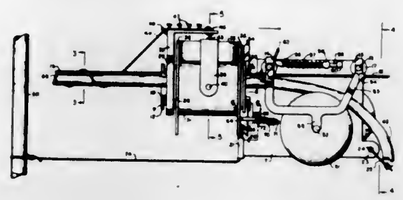
2,668,687
MOTOR SUPPORT
Clarence H. Fowler, Dalhart, Tex.
Application August 22, 1951, Serial No. 243,079
3 Claims. (Cl. 254—126)



1. The combination with a vehicle engine supporting and elevating device, detachably mounted in and adjustably supported solely by a vehicle chassis, comprising an elongated beam adapted to be disposed beneath a vehicle chassis and longitudinally thereof, a supporting hook connected to the beam intermediate of its ends having an upwardly offset bill portion adapted to engage on a transverse frame member of the chassis and forming a fulcrum for the beam, screw means extending upwardly through said beam adjacent a first end thereof and adapted to engage under a part of the chassis for displacing said first end of the beam downwardly when said screw means is advanced upwardly to cause the beam to fulcrum on the transverse frame member for swinging the other second end of the beam upwardly, and an engine engaging unit including transversely spaced uprights supported on and rising from the second end of the beam and adapted to engage under portions of an engine disposed in the chassis for elevating the engine relatively to the chassis when the said screw means is advanced upwardly, said engine engaging unit including an elongated cross head secured to and disposed transversely on the second end of said beam, said cross head having a bore extending therethrough of non-circular cross section, a pair of L-shaped members having short legs slidably and adjustably mounted in the ends of said cross head and upwardly extending long legs rising from the remote ends of said short legs and forming said transversely spaced engine engaging uprights, said short legs being adjustable in the ends of said cross head to vary the spacing between the long legs.

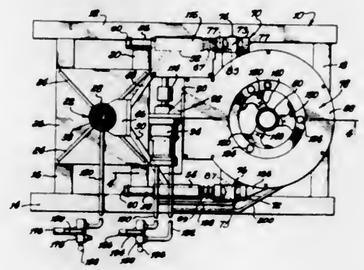
2,668,688
CABLE LASHING MACHINE
Leland H. Stanford, Arlington, Va.
Application January 11, 1951, Serial No. 205,591
5 Claims. (Cl. 254—134.3)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A device for lashing cable to and unlashing cable from a messenger strand comprising a framework for riding along a strand, a drum rotatably mounted thereon, a lashing mechanism for rotating said drum comprising a circular member fixed to said drum and rotatably drivable relative to said framework, a container of lashing wire on said drum, a guide for said lashing wire laterally positioned to and mounted on said drum, means for selectively securing said guide to said drum whereby during lashing the guide and drum are mutually rotated and lashing wire is



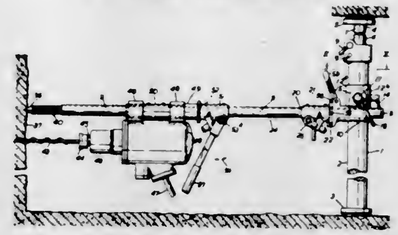
payed out of said container about said cable and messenger strand, said last mentioned means including means for releasing said guide from rotation with said drum whereby said guide is rotatably free of said drum and under the stress of said lashing wire during an unlashing operation by which said lashing wire is unwound from said cable and messenger strand and wound upon said drum.

2,668,689
AUTOMATIC POWER TONGS
David R. Cormany, Long Beach, Calif., assignor to C & C Tool Corporation, Long Beach, Calif., a corporation of California
Application November 7, 1947, Serial No. 784,556
13 Claims. (Cl. 255—35)



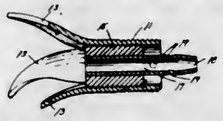
1. A pipe wrench assembly including a pair of pipe gripping units, coupling means for holding said units in axially spaced relation to each other, a plurality of pipe gripping elements pivotally mounted in each of said units, the several elements of each of said units being jointly operable to selectively engage and disengage a pipe against rotation in either direction, a reversible fluid driven worm motor operable to jointly operate the several elements of one of said units, a reversible fluid operated piston in a cylinder operable to jointly operate the several elements of the other of said units, a source of fluid pressure and fluid lines and valve mechanisms to selectively simultaneously admit fluid pressure from said source to the respective opposite sides of said worm motor and said piston, whereby said units always are substantially simultaneously urged in opposite directions from each other in order to make or break a pipe joint.

2,668,690
ROCK DRILLING EQUIPMENT
Alexander Cameron, Walkerville, Newcastle-upon-Tyne, England, assignor to Victor Products (Wallsend) Limited
Application April 9, 1951, Serial No. 220,067
Claims priority, application Great Britain April 26, 1950
6 Claims. (Cl. 255—53)



1. A rotary rock-drilling equipment comprising in combination, a fixed supporting prop, a tubular mounting secured to said prop, a drill feed bar formed with rack teeth and mounted to slide in said tubular mounting, a rock-engaging steady pin resiliently mounted at the forward end of said feed bar, a first pinion meshing with the rack teeth of said feed bar and journalled to thrust against said mounting when rotated to press said feed bar forwardly, a drilling unit supported on said feed bar and mounted to slide thereon to and from said rock-face, a second pinion meshing with the rack teeth of said feed bar and journalled to feed said drilling unit forwardly when rotated and a ratchet handle formed to engage alternatively each of said pinions to rotate the respective pinions in one direction.

2,668,691
EARTH BORING BIT
John Allen Moore, Denver, Colo.
Application November 15, 1951, Serial No. 256,545
2 Claims. (Cl. 255—61)

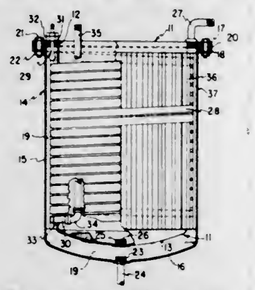


1. An earth boring bit comprising: a relatively short length of steel tubing; a plurality of relatively sharp fangs formed on one extremity of said tubing, said fangs extending outwardly and forwardly from said tubing to form a flower-like, flaring extremity thereon; a plug member fixedly mounted within and extending substantially throughout the length of said tubing and closing the latter; a water jet tube coaxially mounted in said plug member, said jet tube being fixedly supported by said plug member so as to project rigidly rearward of the latter; a reduced-diameter rear extremity on said jet tube; and means for coupling said tubing to a drilling member.

2,668,692
HEAT EXCHANGER
Kemper M. Hammell, Harrisburg, Pa., assignor to General Electric Company, a corporation of New York
Application October 19, 1950, Serial No. 191,010
5 Claims. (Cl. 257—241)

1. A heat exchanger comprising inner and outer substantially cup-shaped metal walls arranged in adjacent spaced-apart nested relation

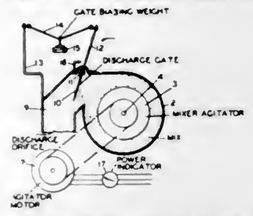
and cooperating to define a substantially cup-shaped chamber therebetween, first and second outwardly extending substantially annular flanges respectively carried by said inner and outer walls adjacent to the open ends thereof, said first flange overlying said second flange and removably secured thereto to close the open end of said chamber and to render it fluid-tight, a first fixture carried by said inner wall adjacent to the closed end thereof and communicating with said chamber, a second fixture carried by said first flange and communicating with said chamber, said first and second fixtures accommodating the passage through said chamber of a first fluid, a substantially helical metal conduit arranged within said chamber and surrounding said inner wall and disposed in spaced relation with respect to said inner and outer walls and accommodating the passage therethrough of a second fluid, a first open resilient metal structure arranged in said chamber between said inner wall and said



conduit and in contact therewith, and a second open resilient metal structure arranged in said chamber between said outer wall and said conduit and in contact therewith, said conduit and said first and second structures being clamped between said inner and outer walls and supported in place therebetween in said chamber, said first structure accommodating ready passage therethrough of said first fluid in said chamber between said inner wall and said conduit and said second structure accommodating ready passage therethrough of said first fluid in said chamber between said outer wall and said conduit, said first structure being arranged in good heat exchange relation with said conduit and in poor heat exchange relation with said inner wall and said second structure being arranged in good heat exchange relation with said conduit and in poor heat exchange relation with said outer wall so as to promote heat exchange between said first and second fluids and to retard heat exchange between said conduit and said inner and outer walls.

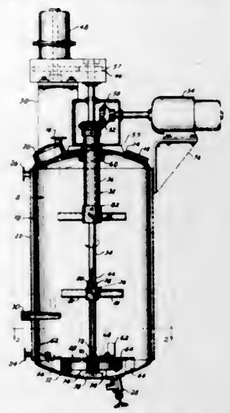
2,668,693
CONTINUOUS MIXER
George E. Gard, East Hempfield Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application November 14, 1951, Serial No. 256,219
2 Claims. (Cl. 259—9)

1. In a continuous mixer, the combination of a mixer body, an agitator disposed within the body, said body having an inlet orifice for the delivery of material to the body for mixing by said agitator and a discharge orifice for the delivery of mixed material from the body, and means to control the delivery of mixed material from the body through said discharge orifice comprising a gate in the discharge orifice for limiting the flow of material through the mixer and means for biasing said gate toward a closed position with respect to said discharge orifice with increasing bias as the gate is opened, said biasing means



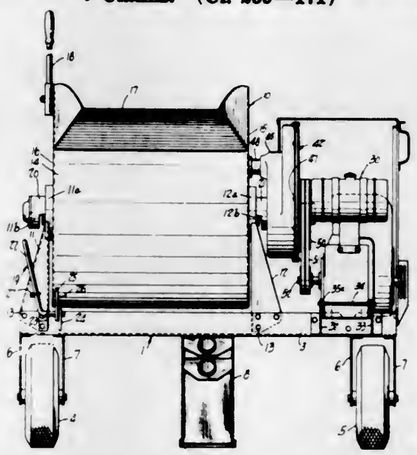
comprising a fixed member external of the mixer body and a biased tie connected to said fixed member and to said gate.

2,668,694
APPARATUS FOR AGITATING MATERIALS
William Ashley Kline, Morris Plains, John Alexander Monick, Teaneck, and Elio Eliakim Tarika, East Orange, N. J., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application July 21, 1951, Serial No. 237,946
2 Claims. (Cl. 259—96)



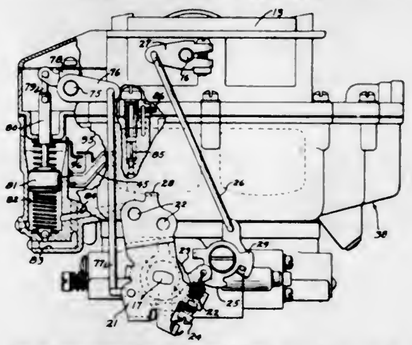
1. An apparatus for agitating materials comprising in combination, a chamber adapted to contain a mass of material, said chamber having a generally cylindrical side wall and a bottom wall, a longitudinally extending shaft movably mounted within said chamber, said shaft having an interior member and an exteriorly surrounding sleeve member, the sleeve member being of shorter extension than the interior member, means for rotating the sleeve member in the same direction as and at a slower speed than said interior member, at least one impeller mounted on each of said members, said impellers being spaced apart a substantial distance and having a plurality of blades extending outwardly from said shaft, each impeller being adapted to permit the materials being agitated to pass through the chamber between the blades of each impeller, and means mounted near the bottom wall of said chamber adjacent to one of said impellers adapted to cooperate with the rotating blades of said adjacent impeller to shear the materials being agitated, said means comprising an annular member and a plurality of vertically projecting, radially extending baffle members, said annular member being secured to the upper edges of said baffle members and being of a width sufficient to cover only said baffle members, leaving the blades of said adjacent impeller uncovered.

2,668,695
DRUM MIXER WITH POWER-OPERATED DISCHARGE POSITIONING MEANS
Erich H. Lichtenberg, Milwaukee, and Daniel C. Jones, Port Washington, Wis., assignors to Kwik-Mix Company, Port Washington, Wis.
Application February 27, 1951, Serial No. 212,994
7 Claims. (Cl. 259—171)



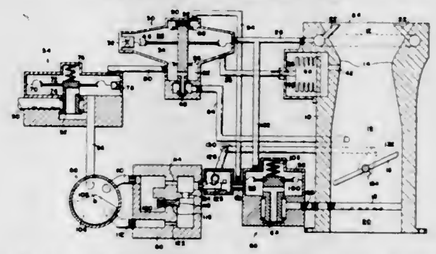
1. In a mixer of the class described, in combination, a frame, a rotatable mixing drum carried thereby, mixing means in said drum, said drum tending to rotate responsive to forces transmitted thereto by the mixing means through the material being mixed, means for translating resistance to movement of the mixing means into drum rotating power comprising a transmission unit supported on the frame connected to drive said mixing means and having a separate connection to the drum at a point spaced from the axis thereof, said connection being movable with the drum, power drive means for said unit, and means for maintaining the drum in mixing position.

2,668,696
CARBURETOR ANTIFLOODING DEVICE
James E. Eberhardt, Webster Groves, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application November 6, 1951, Serial No. 255,041
4 Claims. (Cl. 261—34)



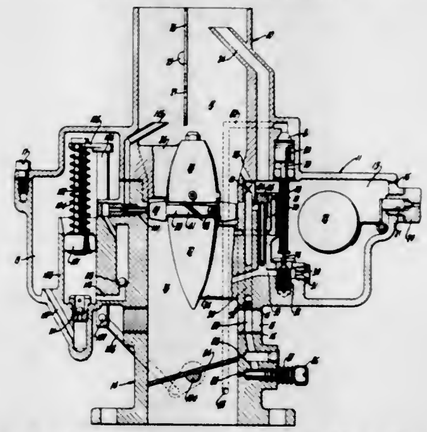
1. In a carburetor, a mixture conduit, a throttle valve therein, a fuel reservoir, a level controlling float in said reservoir, a support bracket projecting from said float, a fuel supply passage connecting said reservoir and said conduit, a stop positioned adjacent said bracket and limiting the lowering of said bracket and float, and a mechanical connection between said throttle valve and said stop for positioning said stop to decrease the permissive lowering of said float when said throttle valve is substantially closed.

2,668,697
DENSITY RESPONSIVE VALVE FOR CARBURETORS
Leonard E. Sager, Dayton, Ohio, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application December 13, 1945, Serial No. 634,836
12 Claims. (Cl. 261—39)



11. A carburetor comprising a main air passage and a secondary air conduit in parallel therewith, means for supplying liquid fuel to said passage, restriction means in said conduit comprising two parallel restricted flow paths, valve means for varying the area of one of said paths, a bellows responsive to the pressure and temperature of said air for operating said valve means, the other of said flow paths being formed by opposed walls spaced apart by such a selected, sufficiently small distance, in relation to predetermined values of velocity, density and viscosity of said fluid, as to determine a Reynolds number not exceeding 2000, whereby said flow is always laminar, and hence varies inversely with both the viscosity and the temperature of said fluid, under all conditions of operation of said apparatus.

2,668,698
CARBURETOR
Eugene C. Rollins, Ogden, Utah
Application January 23, 1952, Serial No. 267,843
8 Claims. (Cl. 261—41)



1. A carburetor comprising: an air horn provided intermediate its ends with a Venturi con-

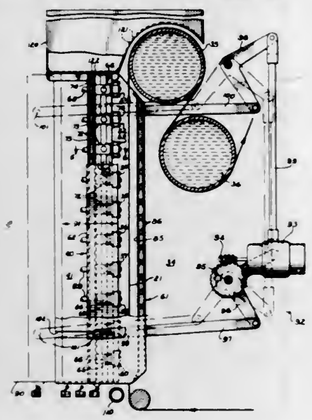
striction; a vaned air motor having a hollow central hub mounted within said Venturi constriction, the overall diameter of said air motor being substantially equal to the inner diameter of said Venturi constriction; and outwardly extending fuel jets mounted in said hollow central hub between the vanes of said motor.

2,668,699
MEANS FOR AERATING LIQUIDS
George Szekely, Tel-Aviv, Israel
Application December 11, 1950, Serial No. 200,142
4 Claims. (Cl. 261—121)



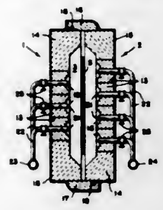
1. A device for aerating or foaming of creams, drinks or the like comestibles, comprising a central tube attachable at one end to an air supplying hose, at least two discs detachably fastened near the other closed end of the tube, at least one disc of each two discs being roughened at the circumferential border by an irregular fine grain, means for pressing the discs at their borders against each other, radial air passages extending from the middle of the discs to their rough borders, openings in the tube debouching air into said air passages and radial wings attached to the central tube.

2,668,700
DRIER FOR PRINTING PRESSES
Richard G. Zimmerman, Lawrence, Kans.
Application May 25, 1949, Serial No. 95,340
16 Claims. (Cl. 263—3)



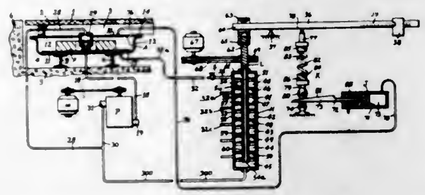
1. In a dryer for a web in a printing press, a burner assembly comprising a back plate, burner lines arranged on said plate and spaced from one another, each of the burner lines having a longitudinally extending manifold and a burner of refractory material superimposed thereon for producing radiant heat, said manifolds each having an extended surface in contact with said back plate, high temperature insulation having low heat storage capacity filling the interstices between said manifolds, and a water cooling line in intimate thermal contact with said back plate for maintaining said plate and said manifolds at a low temperature to minimize the stored heat of the burner assembly after a sustained period of operation.

2,668,701
HEATING CONTROL SYSTEM
Karl L. Dietrich, Philadelphia, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application February 3, 1951, Serial No. 209,272
16 Claims. (Cl. 263—3)



1. Apparatus for heating continuously a strip of sheet material comprising an elongated furnace having a chamber through which the strip passes, heating elements in said chamber to heat said strip, means through which fuel is supplied to said heating elements, regulating means to adjust the supply of fuel, means responsive to the speed of the strip having a part thereof movable as strip speed varies, means responsive to the temperature of said strip having a part thereof movable as strip temperatures varies, and mechanism to adjust said regulating means said mechanism including elements moved by said parts, and means adjusted jointly by said elements.

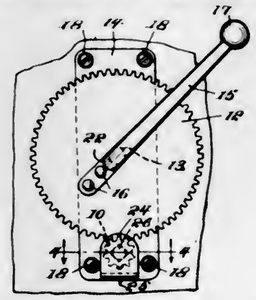
2,668,702
HYDRAULIC SCALE
Joel R. Belknap, South Charleston, W. Va., assignor to Fuel Process Company, South Charleston, W. Va.
Application May 16, 1951, Serial No. 226,710
6 Claims. (Cl. 265—47)



1. A scale comprising, a load supporting platform, a plurality of hollow expansible and collapsible weight sensing elements supporting the platform, each of said elements embodying upper and lower plates connected by a flexible diaphragm to form a liquid tight chamber, the lower plates being supported upon bases and the upper plates engaging the load supporting platform, a piston in each chamber and having therein an inlet passageway having ports communicating with the interior of the chamber, a cylinder carried by the top plate of each sensing element and telescopically receiving the piston, each cylinder being provided with ports adapted to register with the ports of the piston, a source of fluid pressure communicating with the piston

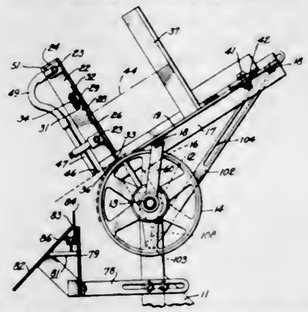
passageway, the pistons and cylinders acting as a valve to automatically control the delivery of fluid pressure to the chambers, a weight beam pivoted intermediate its length and carrying at one end a weight movable along the beam, a housing having therein individual piston chambers totaling in number the same as the number of weight sensing elements, a piston rod in said housing and carrying in each piston chamber a piston, a fluid conducting conduit inter-connecting the chamber of each weight sensing element with one of said housing piston chambers at a point above the piston therein, and the piston rod being operatively connected to the opposite end of the weight beam for pulling downwardly thereon.

2,668,703
MOTOR VEHICLE WINDOW OPERATOR
Jim Haffey, Oxford, Nebr.
Application May 27, 1952, Serial No. 290,357
4 Claims. (Cl. 268—126)



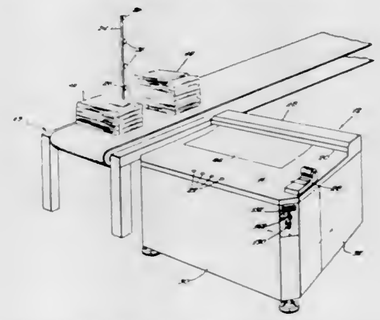
1. A window operator comprising an elongated plate having a centrally positioned flange parallel to and spaced from one end and said flange connected to the plate with a web, said flange also having a stud on the side thereof facing the plate and abutting the end of the shaft of a window raising mechanism, a pinion mounted on the shaft of the window raising mechanism and having an opening in one end for receiving the stud positioned against the flange and extended through the plate, a gear journaled on the plate and positioned to mesh with the pinion and a handle extended from the face of the gear.

2,668,704
APPARATUS FOR DISPENSING STACKED SHEET MATERIAL
Theodore J. Durksen, Oakland, Calif.
Application February 4, 1950, Serial No. 142,416
7 Claims. (Cl. 270—54)



1. In a gathering machine including support means for a stack of multi-sheet signatures to be dispensed cut edge foremost in a direction laterally of the stack and subjacently spaced conveyor means movable past and for receiving a file of relatively spaced signatures dispensed from said stack, a cylindriform rotor journaled in axial parallelism with said conveyor and having a peripheral portion disposed in proximity to the bottom sheet of the lowermost signature of said stack, suction gripper means in said peripheral portion of the rotor, means for revolving said rotor in timed relation with movements of said conveyor means to move said suction gripper means below said lowermost signature and toward said conveyor means, a suction header connected wtih a source of sub-atmospheric pressure, a conduit interconnecting said suction header and suction gripper means whereby subatmospheric pressure may be communicated to said suction gripper means, a valve mounted for cyclic movement in said rotor and arranged to open and close said conduit so as to effect, respectively, cohesive engagement of the suction gripper means with said bottom sheet of a signature or release of said suction gripper means from said bottom sheet, said rotor when the suction gripper means thereof is in cohesive engagement with said bottom sheet of the signature drawing said lowermost signature of the stack bodily outwardly, the said bottom sheet thereof being directed curvately downward about the peripheral portion of the rotor while an upper sheet of the signature is free to move horizontally outwardly from the stack to thus open said signature, a cam cooperative with said valve to open the latter when said suction gripper means is positioned substantially below the foremost edge of the lowermost signature of the stack and to close said valve when said suction gripper means and the signature sheet in possession thereof approaches said conveyor means to release said opened signature and to permit movement of the latter into straddling engagement with said conveyor means, and means operative intermediate openings and closings of said valve for venting said suction header.

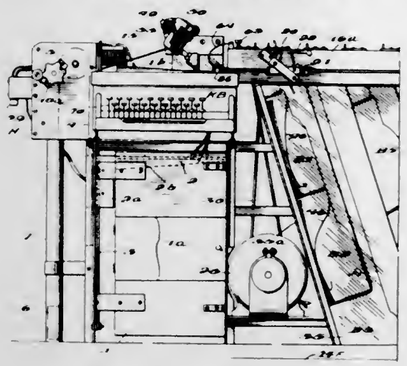
2,668,705
PUSH BUTTON CONTROLLED SHEET MATERIAL FEEDING APPARATUS
Harry Rosenthal, Chicago, Ill.
Application May 4, 1949, Serial No. 91,275
9 Claims. (Cl. 271—2.3)



1. Apparatus for feeding measured amounts of sheet material including in combination, controllable sheet material feeding means, a plurality of control members each of which is operable to initiate operation of said feeding means and select a predetermined amount of sheet material to be fed by said feeding means, a corresponding plurality of control devices each of which in-

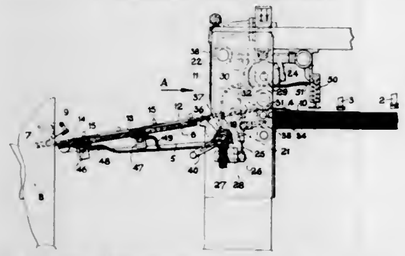
cludes portions movable with respect to each other in timed relation with the movement of the sheet material, one of said portions of each device being adjustable for determining the respective times at which each of said control devices is operated during the travel of the sheet material, and means controlled by said control members and by said control devices for interrupting the feed of sheet material by said feeding means in response to the operation of a control device corresponding to an operated control member.

2,668,706
CHECK SORTING MACHINE
Le Roy J. Benson, Columbia, S. C.
Application April 11, 1952, Serial No. 281,797
2 Claims. (Cl. 271—18)



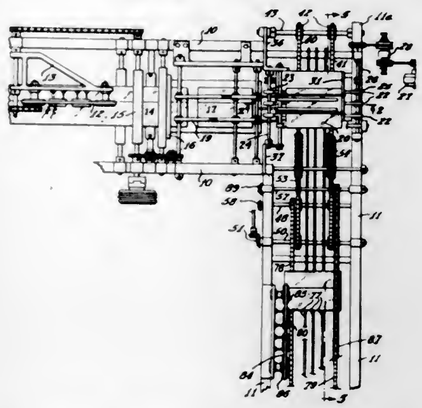
1. A device for feeding checks or similar articles from the top of a stack comprising, a friction member, means normally supporting said member in elevated position above the top of said stack, means for moving said member downwardly, into contact with the top of said stack, and means for vibrating said member when in contact with said stack at a frequency within the range of 25 to 60 vibrations per second and with a component of movement transversely of the axis of said stack.

2,668,707
PNEUMATIC SHEET FEEDING MECHANISM
Georg Spiess, Leipzig, Germany
Application April 13, 1950, Serial No. 155,574
7 Claims. (Cl. 271—47)



1. A sheet feeder comprising an endless conveyor for transporting sheets to a machine to be fed, means provided with suction grips for lifting and transferring a top sheet from a pile to the conveyor, a main driving shaft, means for driving the conveyor from the driving shaft including a clutch, a conduit connected with said suction grips, a valve in said conduit, an actuator for engaging and disengaging said clutch, an actuator for said valve, means interconnecting the clutch and valve actuators, spring means urging the clutch to disengaged position and the valve to closed position, a locking device for retaining the clutch engaged and the valve open against the action of said spring, a sheet detector positioned at the end of said conveyor, means controlled by the sheet detector and operable for releasing the locking device, and a single manually operated control element connected to said actuators for engaging the clutch and opening said valve and resetting the locking device.

2,668,708
TRANSFER MECHANISM FOR SEALING MEANS
Leonard Back, Middletown, Ohio, assignor to The Interstate Folding Box Company, Middletown, Ohio, a corporation of Ohio
Application April 28, 1950, Serial No. 158,796
15 Claims. (Cl. 271—49)

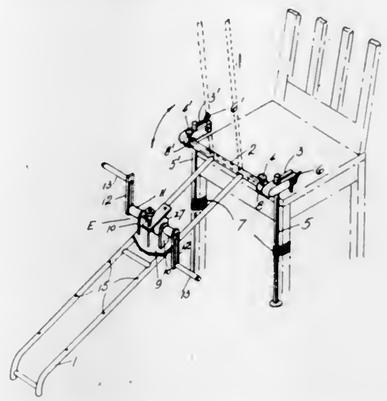


1. Transfer mechanism for limp, flexible articles in a multi-section machine having angularly related sections comprising a platform at the start of the second section, conveyor means for moving an article onto and across said platform with an edge of the article extending beyond the edge of the platform nearest the second section, abutment means for stopping the article on the platform, a second conveyor having a frictional surface traveling beneath said platform in a direction angularly related to the direction of movement of the first mentioned conveyor means, and periodically acting depressing means traveling with the second conveyor in timed relation thereto for engaging the extending edge of the article and bringing it into frictional relationship with the frictional surface of said second mentioned conveyor whereby said second mentioned conveyor is caused to remove said article from the platform and carry it in a new direction of motion.

2,668,709
MEDICAL EXERCISING APPARATUS
Rudolph J. Boyko, New York, N. Y.
Application September 26, 1950, Serial No. 186,764
3 Claims. (Cl. 272—58)

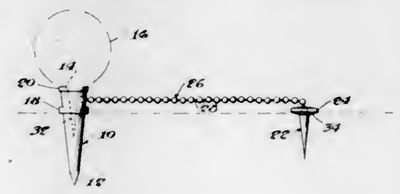
1. As a supplementary device, a medical exercising apparatus for both upper and lower extremities, easily adjustable to a seat, a framework which comprises in combination mount tracks carrying an exercising device of the crank-

arms type slidably arranged on said tracks; means to secure said exercising device on said tracks in various desired positions; means for connecting said tracks to straight front parts of said seat, said connecting means comprising two uprights



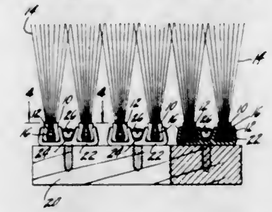
and a horizontal rod connected with said tracks and turnably arranged at the top of said uprights; and means for adjusting and connecting said uprights to the straight front parts of said seat.

2,668,710
GOLF TEE
Richard F. Carlson, Weymouth, Mass.
Application September 14, 1949, Serial No. 115,726
1 Claim. (Cl. 273—33)



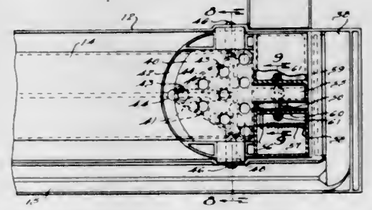
A golf tee comprising a metal tee member having a body including a tapered shank portion terminating at its lower end in a conical point and having a substantially concave ball supporting socket at its upper end and provided with a conical opening extended downwardly into the body of said tee member from the bottom of the ball supporting socket, and a relatively small pointed metal anchor member having a head and a pointed shaft depending therefrom, said head having a bottom surface conforming to the ball supporting socket, and said shaft being of a size and shape to conform to the size and shape of said opening, whereby to enable the anchor member to be snugly nested within the socket and opening in said tee when the tee is not in use, the upper end of said conical opening being of substantially smaller diameter than that of the upper portion of the tapered shank portion of the tee member to provide walls of substantial thickness and strength around the anchor receiving opening, and a connecting member connecting said tee to the center of the top surface of the anchor.

2,668,711
GOLF TEE HAVING BALL SUPPORTING FIBERS
John L. McLaughlin, East Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut
Application November 3, 1950, Serial No. 193,911
10 Claims. (Cl. 273—33)



1. A golf tee comprising in combination, a plurality of similar parallel horizontal fiber strips each including a channel member and a layer of fibers projecting upwardly thereof, the said fiber strips being closely spaced uniformly so that the fibers near the edges of adjacent fiber layers are positioned for engagement with each other and the said fibers in all of the layers terminating at their upper ends at a common horizontal plane, and a plurality of longitudinally spaced transversely extending supporting bars beneath the said fiber strips for holding the said strips in normally fixed relationship with each other as described.

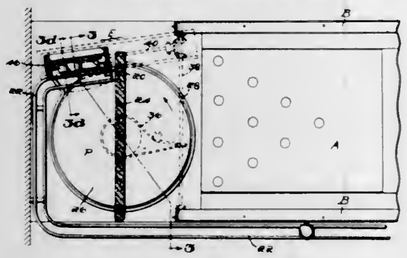
2,668,712
BOWLING ALLEY PIN SETTING APPARATUS
Wilbert F. Kling, Detroit, Mich.
Application August 3, 1949, Serial No. 108,292
10 Claims. (Cl. 273—42)



1. In a bowling alley, a pin setting apparatus comprising a top panel provided with a plurality of holes, each hole adapted to receive a pin for passage therethrough; a plurality of cylinders attached to the underside of said top panel and each positioned concentrically to a hole in said top panel and adapted to receive a pin for passage therethrough; a bottom panel provided with a plurality of holes, each hole adapted to receive a pin for passage therethrough, wherein said top and bottom panels form a pin holding and pin discharging assembly mounted for vertical movement above the bowling surface and wherein said top panel is movable laterally relative to said bottom panel from a first position wherein the respective holes in the panels and the cylinders are in alignment such that a bowling pin will pass completely through said openings to a second position wherein the openings in said bottom panel are out of alignment with the openings in the top panel such that bowling pins enclosed in said cylinders rest on the body of said bottom panel; a level member pivotally secured to said pin holding assembly for vertical movement therewith; a first lever arm as a por-

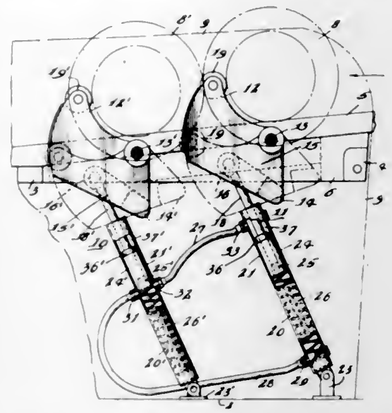
tion of said member and pivotally secured to said top panel for lateral movement therewith; a second lever arm as a stop engaging portion of said member; a third lever arm as a portion of said member and extending oppositely to said second lever arm; resilient means connecting said third arm with a portion of said pin holding assembly, said first arm moving laterally in response to vertical movement of said second arm and said resilient means tending to force said second lever arm and consequently said top panel into either of its extreme lateral positions depending on the position of said resilient means relative to the pivot point of said lever member on said pin holding assembly; a stop positioned near the top of said bowling alley adapted to engage and limit the upward movement of said second lever arm thereby causing said first arm to move laterally and said top panel to move to said second position upon upward movement of the pin holding assembly; a stop positioned near the bowling level of said alley adapted to engage and limit the downward movement of said second lever arm thereby causing said first arm to move laterally and consequently said top panel to move to said first position upon downward movement of said pin holding assembly; and resilient guide means secured to a portion of said bowling alley and adapted to support said pin setting assembly.

2.668.713
BOWLING PIN HANDLING MACHINE
Frank W. Anderson, North Weymouth, Mass., assignor to Murphy Automatic Pinsetter Company, Inc., Somerville, Mass., a corporation of Massachusetts
Application December 16, 1949, Serial No. 133,385
13 Claims. (Cl. 273—43)



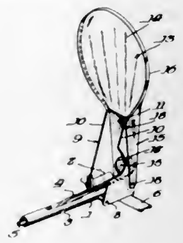
1. In a pin-handling machine a rotary disc in the pit having a coned surface with its axis inclined laterally and rearwardly to present that portion of its surface which is immediately in back of the alley in a radially and downwardly sloping position, an elevating conveyor having an upwardly moving run substantially tangent to the disc at the lowest point of its periphery and having flights for there receiving successive pins horizontally, a guard encircling the disc to retain the pins on the disc but having a gap apposing the conveyor for the passage of pins from the surface of the disc to the conveyor, and an assembling rack, to which the conveyor discharges, for receiving a set of pins in spaced side by side relation, the center line of the rack, corresponding to a line through the centers of the row of pins thereon, being substantially perpendicular to said tangent and at an oblique angle to the longitudinal line of the alley, and chutes extending substantially in parallel relation and perpendicularly to the said center line to positions above the setting up spots on the alley.

2,668,714
BOWLING BALL RETARDER
William F. Huck, Forest Hills, N. Y., assignor to The Brunswick-Balke-Collender Company, a corporation of Delaware
Application April 5, 1951, Serial No. 219,458
5 Claims. (Cl. 273—47)



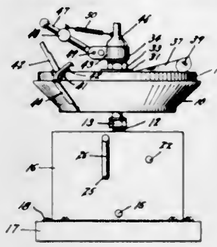
1. In a bowling ball return device having a fixed runway for the balls a retarding device comprising at least a first and second retarder pivoted on said runway and normally positioned in the path of a ball on the runway for retarding the movement of the ball and later releasing it, a damping element for each retarder, and means including a control connection between damping elements operative to cause either a reduction in the damping effect on the first retarder when the second retarder is not blocking a ball or to restore said damping effect on said first retarder when said second retarder is blocking a ball.

2,668,715
BALL CATCHING AND INDICATING DEVICE
Henry G. Atwell, Lake Villa, Ill.
Application April 9, 1949, Serial No. 86,439
6 Claims. (Cl. 273—102.1)



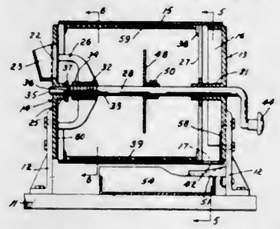
1. In a foldable ball catching device including an audible target means, the combination of a base member, a flexible ball catching pocket, means for supporting said pocket in an upright position including a rigid element, said target means operatively mounted with respect to said ball catching pocket and said rigid element, said rigid element being pivoted to said base member at a point spaced forwardly with respect to said pocket whereby the impact of a ball in the pocket is in a direction tending to maintain said pocket in an upright position, said pocket being rotatable about said pivot to an inoperative position adjacent said base member.

2,668,716
ROLLING BALL GAME DEVICE
Jesse J. Morsch, Douglas, Wyo.
Application October 16, 1952, Serial No. 315,080
6 Claims. (Cl. 273—110)



1. A game and amusement device comprising: a substantially vertical post; a bowl concentrically mounted on said post; a freely rolling ball in said bowl; a hinge device mounted on the lower extremity of said post and supporting the latter so that it may swing in a lateral direction; and means for swinging said post to cause said ball to travel around the periphery of said bowl.

2,668,717
LOTTING MACHINE
Guy A. Staub, New Oxford, Pa.
Application June 21, 1951, Serial No. 232,781
5 Claims. (Cl. 273—144)



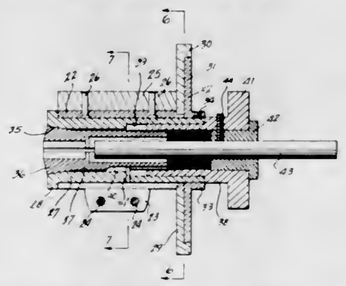
1. A lotting machine for mixing and dispensing lotting balls successively comprising a horizontally mounted open ended cylindrical drum, means for mounting said cylindrical drum for rotation about its horizontal axis comprising a pair of spaced apart mounted drum end plates, one end plate having an inturned cylindrical flange extending inwardly of the drum at least half the width of the diameter of a ball across the top and opposite sides thereof, the bottom of said one end plate being free of such flange, the other end plate having an opening therethrough adjacent its top of dimensions greater than the diameter of said balls, a ball entrance guide trough affixed to the outside of said other end plate about said opening therethrough, each end plate having an aligned opening extending centrally therethrough, an axle shaft in said openings, a pair of drum carrying spoked spiders secured in said drum adjacent opposite ends, said spiders having axle receiving openings therethrough at their centers, the spider spokes at the ball entrance guide trough end plate being offset at least the distance of a ball diameter from the drum end, the other spider being spaced from its drum end at least the width of the inturned end plate flange, and of a full ball diameter, said drum having a ball discharge means between said other spider and its end, comprising a ball discharge opening in said drum, an inclined ball discharge chute having a length substantially equal to the distance between the bottom ends of said inturned end plate flange, the receiving end of said discharge chute being spaced from the adjacent end of said flange by less than the diameter of a lotting ball, the discharge end of said chute being spaced from the other end of said flange by more than one diameter and less than one and one half diameters of a lotting ball, whereby only one ball may discharge for each revolution of said drum.

2,668,718
MAGNETIC LETTERHEAD
Bruce Roberts, Philadelphia, Pa., assignor to The International Electronics Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application December 21, 1946, Serial No. 717,754. Divided and this application March 27, 1947, Serial No. 737,693
3 Claims. (Cl. 274—41.4)



1. A recording medium comprising a flexible rectangular sheet carrying particles of magnetizable material, the said sheet being provided with securing means adapted to cooperate with complementary securing means on a cylindrical form of circumference less than the length of the sheet, said first mentioned securing means being located near one edge of the sheet, and the edge of the sheet opposite the first mentioned edge being cut out to provide for overlapping of said two edges without interference with the said complementary securing means when the sheet is wrapped around the form.

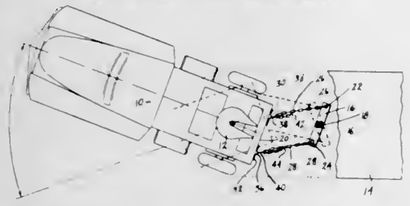
2,668,719
MILLING ATTACHMENT FOR LATHE
Charles F. Harmon, Shawnee, Okla.
Application October 6, 1950, Serial No. 188,764
2 Claims. (Cl. 279—5)



1. A rotatably adjustable work holder of the character described comprising a clamping sleeve having respective longitudinal marginal flanges and clamping screws connecting said flanges and

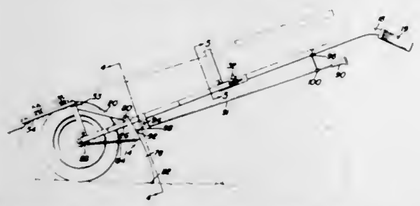
arranged to exert clamping tension on the flanges, a longitudinal anvil bar rigidly secured to said clamping sleeve diametrically opposite said flanges, said anvil bar being adapted to be grippingly received in a lathe milling attachment, an inner sleeve received inside said clamping sleeve and rotatably adjustable therein, a tubular chuck wedgingly positioned in one end portion of said inner sleeve, cooperating longitudinally extending key means carried by said inner sleeve and tubular chuck restraining said chuck against rotation relative to said inner sleeve, said key means allowing longitudinal movement of the chuck, a tubular knob member rotatably received in the other end portion of said inner sleeve and threadedly engaged with said tubular chuck, and an axial stop rod slidably received in and extending through said knob member, said stop rod extending axially into said tubular chuck, and means on said knob member clampingly engaging said stop rod, and cooperating index means on said clamping sleeve and said inner sleeve.

2,668,720
ANTIJACKKNIFING DEVICE FOR TRAILERS
Roy L. Finch, Melcher, Iowa
Application October 11, 1952, Serial No. 314,360
10 Claims. (Cl. 280—432)



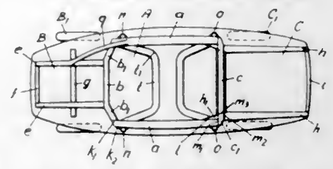
1. A pivot limiting device for two vehicles pivotally attached in tandem, comprising, a bar member pivotally secured at its longitudinal center to the pivotally connected end of one vehicle so as to move on its axis in a horizontal plane, a flexible member secured at one end to each respective end of said bar member, and the free end of each of said flexible member detachably secured to the adjacent end of the other vehicle.

2,668,721
FOLDING GOLF CLUB AND BALL CARRIER
Glenn C. Wright, Cato, N. Y.
Application August 4, 1950, Serial No. 177,601
1 Claim. (Cl. 280—42)



A folding golf club carrier comprising an elongated handle bar, a pair of wheel supporting bars pivotally connected thereto intermediate its ends and extending towards the forward end thereof, the forward ends of said wheel supporting bars being generally T-shaped and each including a first leg forming an axle and a second leg forming a linkage connecting arm, a connecting bracket extending transversely of the forward end of the handle bar and rigidly connected thereto, linkage extending between and pivotally connected to said second legs of the wheel supporting bars and said connecting bracket whereby said wheel supporting bars may assume a folded and a club carrying relation, wheels rotatably mounted on said axles, a support leg hingedly connected to said handle bar intermediate the forward end thereof and the rear connection of said wheel supporting bars and adapted to engage the ground for supporting the rear of said carrier in an elevated position, resilient means connecting said leg with said connecting bracket for urging said leg to a folded position, linkage carried by said handle bar for moving said leg to a ground engaging position.

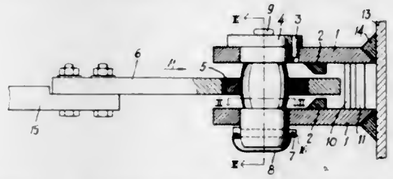
2,668,722
FRAME FOR MOTOR VEHICLES
Josef Müller, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application November 23, 1949, Serial No. 128,939
Claims priority, application Germany November 30, 1948
6 Claims. (Cl. 280—106)



1. A frame for a motor vehicle comprising a wide middle part having lateral longitudinal girders substantially defining the width of the vehicle track, a substantially narrower front end part adapted to be flanked by the steerable wheels of the vehicle and having lateral longitudinal girders spaced inwardly of the girders of the middle part a distance sufficient to define on each side of the vehicle, relatively to the vehicle track, a wheel well wide enough to permit steering motion of the flanking wheels, a cross bearer connecting the girders of the middle part to each other and to the girders of the front part including side portions extending forwardly and inwardly from the girders of the middle part toward the girders of the front part and defining the rearward limits of the wheel wells, and a central portion substantially in register with the rear limit of the steerable wheels to define a forward limit for a foot-well for the driver spaced forwardly of the rearward limit of the wheel wells, and a rear end part slightly narrower than the middle part having lateral longitudinal girders spaced inwardly from the girders of the middle part a distance substantially equal to the thickness thereof and sufficient to define on each side of the vehicle, relatively to the vehicle track, a wheel well wide enough to accommodate non-steerable wheels flanking the rear end part.

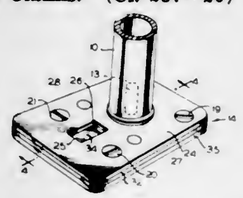
2,668,723
COUPLING FOR TRAILER VEHICLES
Herman Ulrik Krefting, Vanersborg, Sweden
Application January 2, 1952, Serial No. 264,420
Claims priority, application Sweden January 8, 1951
2 Claims. (Cl. 280—515)

2. A coupling for connecting a trailer vehicle to a motor vehicle, comprising a first coupling member connected to one of said vehicles, a second coupling member connected to the other vehicle, said first coupling member being bifurcated so as to comprise two vertically spaced and substantially horizontal branches, and a substantially vertical pivot mounted in said branches, said second coupling member extending partly between said branches and being of less vertical thickness than the spacing of said branches, said second coupling member being provided with a circular opening receiving said pivot, the portion of said pivot located between said branches being



elongated in cross-section with the long axis extending in the direction of the force acting upon the coupling, at least one of the front and rear faces of said pivot portion being convex as viewed both in vertical and horizontal section, the curvature of the front and rear faces of the pivot as viewed in horizontal section at the central portion thereof being substantially complementary to the curvature of the opening in said second coupling member.

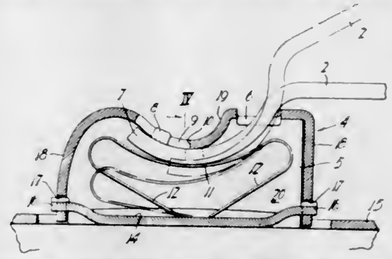
2,668,724
FASTENING DEVICE
Anthony G. Grodson, Miami, Fla., assignor to Aero-Smith, Inc., Miami, Fla., a corporation of Delaware
Application March 18, 1952, Serial No. 277,169
9 Claims. (Cl. 287—20)



4. A locking device for receiving a headed stud, comprising a receptacle formed from a plurality of superimposed plates fixedly secured together and including a top plate having a stud-receiving aperture therein, a spacer plate below the top plate and having an elongated opening constituting a slideway, terminating at one end in a lateral enlargement, and a bottom plate positioned therebelow; a locking plate mounted in the slideway having an edge mounted for movement between a position underlying a portion of the stud-receiving aperture and a position removed therefrom, and a spring in said lateral enlargement engageable with the locking plate for holding the same in its two positions.

2,668,725
WINDSHIELD WIPER
Raymond Deibel, East Aurora, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application December 23, 1949, Serial No. 134,811
6 Claims. (Cl. 287—20.5)

2. A wiper having a coupling chamber provided with a convex back wall and an opposing bottom wall, the back wall having an arm interlocking shoulder and the chamber having an arm receiving opening, and a terminal depressible spring loosely confined within the chamber and having an arcuate terminal-receiving seat nestingly related to the convex back wall and



having a medial underlying resilient portion rockable upon the bottom wall and yieldable to tilt the seat from the back wall for introducing an arm terminal.

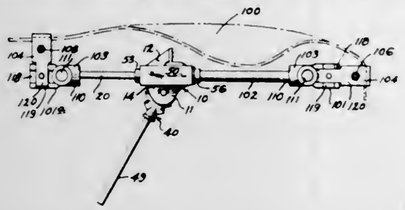
2,668,726
WINDSHIELD WIPER
Charles L. Stewart and Etro F. Aldrich, Chicago, Ill.
Application December 29, 1949, Serial No. 135,573
8 Claims. (Cl. 287—53)

1. A windshield wiper coupling comprising a first member adapted to be rotated about a fixed axis through a fixed arc in an oscillatory manner, a second member eccentrically and pivotally joined to said first member in abutting relationship at a point offset from the axis of rotation of said first member, said second member being oscillatable with respect to said first member, and coacting means on said first member and said second member restricting the oscillatory movement of said second member relative to said first member with predetermined limits during the oscillatory movement of the first member but permitting maximum relative movement of the first and second members with respect to each other at the beginning of each stroke of the first member as it is oscillated.

2,668,727
DEVICE FOR REPAIRING AUTOMOBILE BODY MEMBERS AND THE LIKE
Erwin Max Zinke, Oakland, Calif.
Original application December 22, 1950, Serial No. 202,278. Divided and this application December 17, 1952, Serial No. 336,695
3 Claims. (Cl. 287—54)

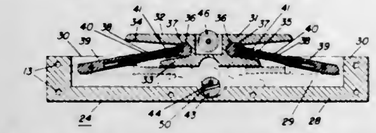
1. A grip clamp, including in combination: a base piece having a socket for securing it to an-

other member and having at one extremity a cross-channeled face on each of two opposite sides, each said face having a central stud projecting outwardly from said face and four corner posts defining two mutually perpendicular channels thereacross; a pair of clamp arms having at one end a strap adapted to fit in said chan-



nels, said strap having a central opening adapted to receive said stud and having a width only slightly smaller than the distance between adjacent corner posts, each said clamp arm also having a clamp jaw at its opposite end; and means to urge said clamp arms toward each other to hold their straps on said base piece and their jaws against an object to be gripped.

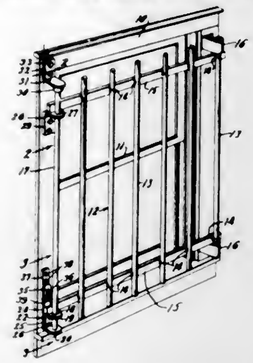
2,668,728
RETRACTABLE SASH TIGHTENING DEVICE
Joseph E. Haynes, Baltimore, Md.
Application January 22, 1951, Serial No. 207,178
3 Claims. (Cl. 292—75)



1. A sash lock comprising a hollow block, means for securing said block to the sash, a projecting element having a flat face adapted to cooperate with the frame associated with the sash, a pair of toggle arms pivoted at one end to each extremity of the block and nested, at the other end, in the projecting element, whereby the block moves outwardly and inwardly with the pivotal movements of the arms, yielding means acting to project the element when the element is moved outwardly beyond a certain point and tending to retract the element when the element is moved inwardly beyond said certain point within the hollow block, and cam means for locking the element outwardly of the block with its flat face against the associated frame against the normal retracting tendency of the yielding means.

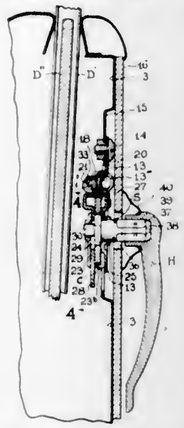
2,668,729
SECURING DEVICE
Gilbert S. Watters, Davenport, Iowa
Application March 11, 1950, Serial No. 149,066
5 Claims. (Cl. 292—137)

1. A device for securing a hinged openwork guard which extends across an opening in a building which comprises, a latching rod engaging an exterior portion of said openwork guard, means for securing said latching rod against outward movement relative to said opening, a laterally extending arm having a body portion fixed to said building and a locking portion abutting one end of said latching rod to prevent movement thereof axially in one direction, said locking portion being formed of a material and shaped so as to be readily deformable in response to a force applied thereto to release said latching rod for movement in said one direction, and means engaging said latching rod to



prevent axial movement thereof in the opposite direction.

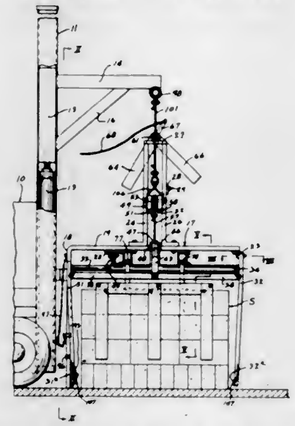
2,668,730
REMOTE CONTROL APPARATUS FOR DOOR CONTROL MECHANISMS
Angelo R. de Vito, Cleveland Heights, Ohio, assignor, by mesne assignments, to Rudolph I. Schonitzer, Cleveland, Ohio
Application October 10, 1947, Serial No. 779,101
3 Claims. (Cl. 292—336.3)



1. Remote control mechanism for a door latch having a movable member for effecting release of said latch from door latched position including, a remote control shaft adapted to be connected to said movable member, said remote control shaft having an offset section, a supporting member adapted to be secured to the door with which the mechanism is associated, spaced remote control shaft bearings carried by said supporting member, said remote control shaft being carried by said bearings with said offset section disposed therebetween, spring means extending between said supporting member and said offset section and tending to rotate said remote control shaft in one direction, said bearings being elongated in a direction away from said supporting member and adapted to prevent displacement of the axis of rotation of said remote control shaft in a plane parallel to said supporting member while permitting limited displacement of said axis in a plane transverse to said supporting member, a slide member, means carried by said supporting member for guiding said slide

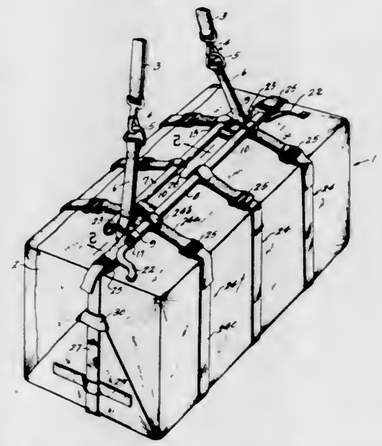
member for lineal movement substantially normal to the axis of rotation of said remote control shaft, said slide member having a flange portion the outer surface of which is in engagement with said offset section, a cam shaft rotatably supported by said supporting member and having its axis of rotation extending in non-parallel relation to said axis of rotation of said remote control shaft, a cam carried by said cam shaft and rotatable therewith, said cam having operating engagement with the inner surface of said flange portion of said slide member whereby rotation of said cam in one direction moves said slide member and said offset section of said remote control shaft with resulting rotation thereof, said cam having a flat portion and said inner surface of said flange on said slide member having a corresponding flat portion, said flat portions being positioned to be in engagement when said remote control shaft is in neutral or non-releasing position relative to said latch, said spring means, acting on said cam through said offset section and said slide member, tending to hold said cam in said non-releasing position and to return it thereto when moved toward releasing position, and manually operable handle means for rotating said cam shaft.

2,668,731
APPARATUS FOR LIFTING STACKS OF BRICKS AND THE LIKE
Herbert J. Neher, Decatur, Ala.
Application August 25, 1951, Serial No. 243,730
14 Claims. (Cl. 294—63)



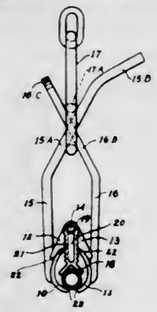
1. In apparatus for lifting a stack of bricks and the like, a main frame embodying vertical members disposed at one side of the stack and horizontal members overlying the stack, stack gripping means comprising sets of vertically disposed gripping arms with one arm of each set disposed on the same side of the stack as the vertical members of the main frame, coacting gripping arm guide means overlying the stack some of which are secured to the main frame and holding the arms for slidable movement toward and from the stack, means connecting the gripping arms to said guide means at points above the top of the stack, links pivoted to the gripping arms beneath the points of connection therewith of the associated guide means and extending inwardly over the stack, upwardly movable means connected to the inwardly extending ends of the links, and means engaging the upwardly movable means and adapted to raise the same thereby bringing the gripping arms into contact with the stack.

2,668,732
QUICK-RELEASE CARGO CONTAINER
Norris W. Carlson, Dayton, Ohio
Application September 5, 1951, Serial No. 245,228
10 Claims. (Cl. 294—75)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a quick release cargo container sling, a pair of rigid elongated substantially parallel spaced supporting bar members, a plurality of rigid spacing members disposed between the elongated supporting bar members and each rigidly secured to one of the bar members, quick release securing means detachably connecting the spacer members rigidly to the other of the elongated supporting bar members for securing the supporting bar members to each other in spaced parallel rigid relation for encircling a cargo container, said strap members each having opposite end portions, one of said end portions of each strap member being secured to one of the elongated supporting bar members and the other end portion of each strap bar member being secured to the other elongated supporting member.

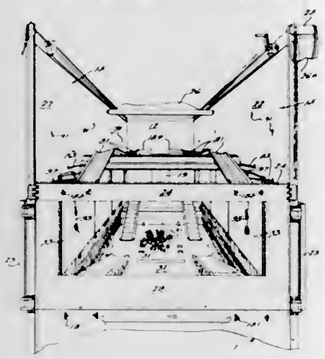
2,668,733
TONGS WITH WORK HOLDING JAWS
John I. Boticki, Lake Milton, Ohio
Application February 20, 1952, Serial No. 272,660
6 Claims. (Cl. 294—118)



1. In a tongs with work holding jaws for handling pipes and the like, a pair of cooperating jaws and a pivot for pivotally connecting said jaws together, a pair of tong arms affixed to said jaws below said pivotal connection, said tong arms loosely connected together above said pivotal connection and clamping means movably

disposed between said jaws on said pivot, stationary formations on said jaws for registry with said clamping means when said jaws are closed.

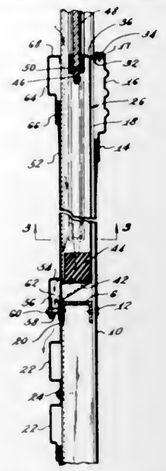
2,668,734
TRAILER FOR CARRYING GENERAL FREIGHT AND AUTOMOBILES
William O. Bridge, Detroit, Mich., assignor to Evans Products Company, Plymouth, Mich., a corporation of Delaware
Application September 28, 1949, Serial No. 118,331
14 Claims. (Cl. 296—1)



13. In a multi-level highway trailer adapted to carry automobiles on lower and upper levels, said trailer having sidewalls and an openable end through which it is loaded, the combination of floor panels adapted in horizontal position to extend from opposite sidewalls to approximately the centerline of the trailer and in such position to provide a flat freight storage surface in the trailer, said panels being movable to said horizontal position from an upright position in juxtaposition with the opposite sidewalls of the trailer, in said upright position there being an open space between said panels to receive an object such as a lower level automobile to be transported in said trailer, means connected to the trailer sidewalls for supporting the panels in such upright position or in such horizontal position, at least one cross member extending between the sidewalls, there being a load transmitting connection between the cross member and the panels when in upright position whereby the upright panels support the cross member, and a pair of tracks for supporting an upper level automobile above the plane of said flat surface, said tracks being connected to and supported by said cross member.

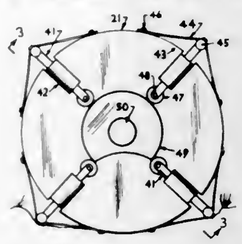
2,668,735
WINDOW WELL CONSTRUCTION FOR AUTOBUSES
Murillo Martin Brockway, Glendale, Calif.
Application December 31, 1949, Serial No. 136,326
10 Claims. (Cl. 296—28)

1. In an automobile bus, a bus body side wall structure including a framework, an inner skin and an outer skin, the inner and outer skins having registered apertures defining a window opening with a sill, a window well pan extending downwardly between said skins from said sill, the upper portion of said pan being in contact with the inner skin adjacent said sill, the major portion of said pan lying more closely adjacent the inner skin to provide a window receiving space between the major portion of the pan and the outer skin, said outer skin having a drain opening therein; and the lower portion of said window well pan being in liquid flow communication with said drain opening, so liquid in the window well



pan will drain through the outer skin and run downwardly off the outer skin.

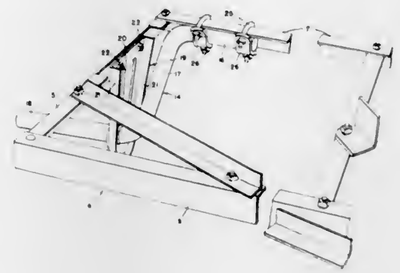
2,668,736
VEHICLE WHEEL
John Morris Poche, Mississippi City, Miss.
Original application August 14, 1950, Serial No. 179,108. Divided and this application August 6, 1951, Serial No. 240,547
3 Claims. (Cl. 301—41)



1. In a device of the character described, the combination of a wheel, a plurality of flexible members having their ends secured in succession around said wheel, a fixed axle, a cam secured to said axle, the cam having a cut-out in its lower margin, a plurality of equal radial struts slidably mounted in said wheel and having their inner ends adapted to bear in succession on the margin of said cam and their outer ends adapted to bear on the center of the associated flexible members, and means for rotating said wheel around said fixed axle.

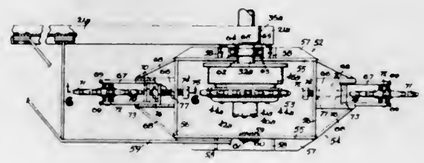
2,668,737
GRAIN DRILL
William A. Hyland, Horicon, Wis., assignor to John Deere Van Brunt Company, a corporation of Wisconsin
Continuation of application Serial No. 545,915 July 21, 1944. This application August 22, 1949, Serial No. 111,690
9 Claims. (Cl. 301—125)

1. In a grain drill or the like, a frame including a transversely extending rear crossbar and a fore and aft extending end bar, supporting means for the frame including a laterally inwardly extending attaching section, a downwardly and forwardly extending section connected with the laterally outer end of said attaching section, a laterally outwardly wheel-receiving section connected with the lower end of said downwardly and forwardly extending section, and a strut section fixed to said supporting means adjacent the inner portion of said wheel-receiving section and extending generally



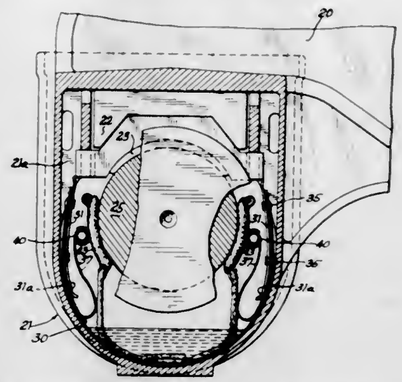
vertically upwardly therefrom to a point of connection against one side of said end bar, means for connecting said attaching section to the rear crossbar so that both the attaching section and the downwardly and forwardly extending section lie laterally inwardly of the vertical plane of that portion of the end bar that receives the upper end of said strut section, and means for securing the upper end portion of said strut section to said end bar at said one side thereof.

2,668,738
INTERCHANGEABLE GROUND TRACTION FOR SELF-PROPELLED VEHICLES
Daniel F. Przybylski, Winona, Minn.
Application January 27, 1949, Serial No. 73,092
1 Claim. (Cl. 305—9)



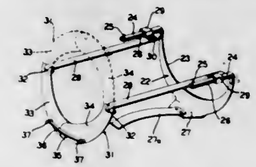
A main frame, a rectangular frame on each side thereof and pivoted relative to the main frame to swing about a horizontal axis, a driven axle, the end portions of which extend transversely into the rectangular frames, a sprocket wheel fixed to each end portion of the axle at substantially the transverse center of the respective rectangular frames, a long guide secured to each rectangular frame at each of its ends and projecting outwardly thereof, and having channel side members in opposing relation, a long slide mounted in the side members of each guide, each slide, at its outer end portion being bifurcated to afford a pair of prongs, an idle sprocket extending between the prongs of each pair and pivoted thereto, all of the sprocket wheels, the guides, and the slides being in the same vertical plane, means for moving the slides in their guides and for holding the same where positioned, and a sprocket chain arranged to run over the sprocket wheels of each rectangular frame.

2,668,739
LUBRICATING DEVICE
Waldemar H. Korn, Dubuque, Iowa, assignor to Kornlube Products, Highland Park, Ill., a co-partnership
Application July 11, 1950, Serial No. 173,057
28 Claims. (Cl. 308—88)



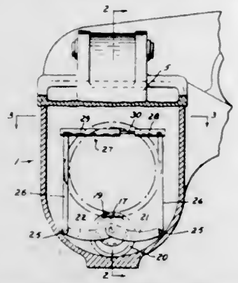
1. A supporting member for lubricating pads comprising a bowed member constructed and arranged resiliently to contact the sides of the bottom of a journal box and having projecting free ends, a member secured to each of said free ends and projecting upwardly, said member being provided with a notched portion for slip engagement with the lug or rib of a journal box, and a resilient arm at each free end of said supporting member and means to secure said members and said supporting arms to said supporting member.

2,668,740
PACKING RETAINER FOR JOURNAL BOXES
John D. Herr, Minerva, Ohio, assignor of one-fourth to Dick W. Mount, Minerva, Ohio
Application March 2, 1953, Serial No. 339,527
8 Claims. (Cl. 308—89)



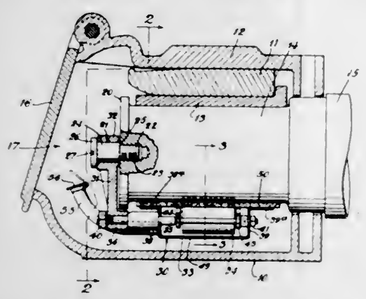
3. A packing retainer for journal boxes, comprising an arcuate rear member, forwardly disposed, parallel, substantially horizontal members, means adjustably connecting the horizontal members to the upper ends of the arcuate rear member, an arcuate front member and means hingedly connecting the arcuate front member to the forward ends of the horizontal members, the arcuate front member comprising two similar parts, means pivotally connecting said parts together and spring means for urging said parts toward each other, said packing retainer adapted to be arranged within the journal box with the rear and front arcuate members near opposite ends of the journal for holding packing introduced into the journal box against horizontal displacement, and the horizontal members adapted to be arranged on opposite sides of the journal for preventing vertical displacement of the packing.

2,668,741
JOURNAL LUBRICATOR
Harley T. Rockwell, Yonkers, N. Y.
Application January 23, 1952, Serial No. 267,771
14 Claims. (Cl. 308—91)



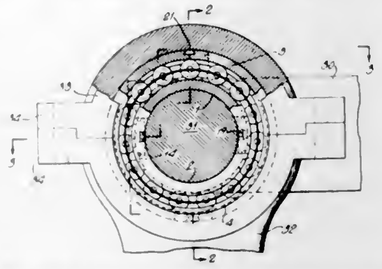
1. In a journal lubricator, the combination with a journal box having a lubricant reservoir at the bottom thereof for supplying lubricant to an axle of a journal, a lubricator located in the box comprising a roller, an endless flexible conveyor arranged for travel about the roller and to be pressed thereby in contact with said axle journal for conveying lubricant from the reservoir to the journal, a flexible frame formed of members arranged to engage the sides of the journal box and members connected therewith and supporting the roller for rotation with and movement toward and from the journal, and resilient means acting on the frame to hold the first named members in engagement with the sides of the journal box and to exert pressure on the second named members to yieldingly hold the roller and conveyor pressed toward the journal.

2,668,742
JOURNAL BOX LUBRICATOR
Carl Vincent, Chicago, Ill.
Application June 26, 1952, Serial No. 295,688
2 Claims. (Cl. 308—91)



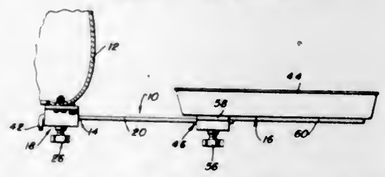
1. In a journal-box comprising a housing, an axle extending into one end of said housing with a bearing portion within the latter, and a bearing member in said housing in bearing engagement with the upper face of said bearing portion, the combination of a support fixed to the outer end of said axle and rotatable therewith, a cradle having one end pivotally mounted on said support and extending downwardly therefrom and thence along the under face of said bearing portion below said bearing member, lubricating means supported on said cradle in feeding relation with said under face of the axle bearing portion, said lubricating means including an oil receptacle mounted on the cradle, and a roller also supported on the cradle in engagement with the axle bearing and adapted to transfer lubricant from the oil receptacle to the axle bearing surface, said roller being pivotally mounted on the cradle to swing on an axis parallel to the axis of the axle and having counterbalancing means tending to maintain said roller by gravity in engagement with the bearing surface.

2,668,743
RADIALLY SEPARABLE ANTIFRICTION BEARINGS
Friedrich Robert Zeuzem, Frankfurt am Main, Germany, assignor of one-half to Herman Wollner, New York, N. Y.
Application August 25, 1949, Serial No. 112,212
3 Claims. (Cl. 308—179)



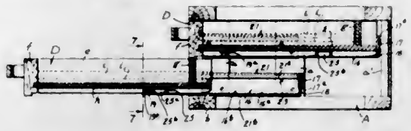
1. An anti-friction bearing including in combination superimposed rings having mutually opposed raceway surfaces and rolling elements positioned to roll between said rings on said raceway surfaces, said rings each being made of radially separable interfitting segments constructed for radial application to and interfitting about a shaft with at least major portions of the lines of separation between said segments formed to cross said raceway surfaces slantingly respecting the rolling direction of said elements, at least one of said rings having said segments formed with mutually abutting ends having slanting portions formed to provide said slanting portions of said lines of separation and right angular portions positioned to brace the respective segments circumferentially against movement by wedge action of said slanting portions when under circumferential pressure with said right angular portions having keys constructed and arranged to prevent relative slippage therebetween but separation thereof when said segments are radially separated.

2,668,744
LEVELING BRACKET
Welton R. Cockrell, Mexia, Tex.
Application August 27, 1952, Serial No. 306,628
1 Claim. (Cl. 311—21)



For use with a vehicle service tray of the type including a support arm, a mounting bracket for attaching a tray support arm to an inturned lower flange of an instrument panel, said mounting bracket including a central sleeve portion; a pair of oppositely disposed outwardly directed attaching flanges, each of said attaching flanges being provided with a fastener for securing its respective attaching flange to a lower flange of an instrument panel, a second fastener adjustably carried by each of said attaching flanges for engaging a lower flange of an instrument panel to level said sleeve portion whereby a vehicle service tray supported by said mounting bracket from an instrument panel may be leveled.

2,668,745
EXTENSION DRAWER SUPPORT AND GUIDE STRUCTURE
Frank H. Metcalf, Los Angeles, Calif.
Application November 19, 1949, Serial No. 128,287
2 Claims. (Cl. 312—335)



2. Guiding and supporting apparatus for a slidable drawer or the like comprising: a pair of elongate tracks, each track having continuous flat vertical and horizontal flanges; a pair of slides for receiving a drawer therebetween, each slide having continuous flat vertical and horizontal flanges to be slidably mounted upon one of said tracks; the outer edge portion of one flange of each said track being bent over to form an elongate channel receiving the outer edge of one flange of one of said slides when the latter is mounted on its said track; and means for mounting said tracks interchangeably to support either side of a drawer and with the channel bearing flanges of both tracks in either a vertical or horizontal position; the two flanges of each of said slides being of equal width and of such configuration that said slides may be mounted on the tracks with one of the flanges of each slide slidably engaging the channel bearing flange and channel of the corresponding track, and the other flange of each slide slidably engaging the other flange of the corresponding track, in either position of said channel bearing flanges; and each of said slides being provided at its rear end with two stop members projecting from the respective flanges thereof and extending within the angle formed by said flanges and so positioned that, when the slides are mounted on the tracks with the channel bearing flanges of the tracks in either of said positions, one of said stop members of each slide is in position to engage the rear end of the channel of the corresponding track to limit forward movement of the slides relative to the tracks.

2,668,746
FILING CABINET AND DRAWER FOR MICROSCOPE SLIDES
Edwin C. Weiskopf, New York, N. Y., assignor to Technicon International, Ltd., New York, N. Y., a corporation of New York
Application March 2, 1949, Serial No. 79,153
6 Claims. (Cl. 312—346)



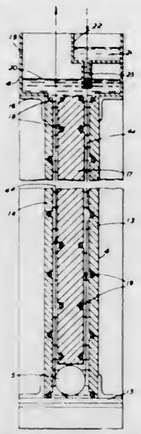
1. In a cabinet comprising a frame having a bottom wall provided with longitudinal flanges spaced upwardly from the surface of said bottom wall, a drawer having opposite planar side walls and a bottom which extends between said side walls above the lower marginal edges of said side walls for engagement with said flanges, said side walls being provided at said marginal edges thereof with integral inturned portions extending toward each other in position below said drawer bottom, said inturned portions underlying said bottom and being engageable between said bottom wall and said oppositely extending flanges, respectively, and cooperating with said flanges for precluding disengagement of the drawer from the guide means of the cabinet unless said drawer is substantially entirely withdrawn from said cabinet, and parts integrally formed with the side walls at the opposite ends of said inturned portions, said parts at the rear end of the drawer facilitating the insertion of the drawer into said cabinet for engaging said inturned portions between the bottom wall of said cabinet and said oppositely extending flanges, respectively, said parts extending between said marginal edges of said side walls, respectively, and said bottom for connecting said drawer bottom to said side walls thereof.

CHEMICAL

2,668,747
PROCESS AND APPARATUS FOR DYEING OR PERFORMING RELATED PROCESSES UPON TEXTILE USING MOLTEN METAL
Robert S. E. Hannay, Carlisle, and William Kilby, Bolton-le-Sands, Carnforth, England, assignors, by mesne assignments, to Standfast Dyers & Printers Limited, Lancaster, a British company
Application January 14, 1947, Serial No. 722,042
Claims priority, application Great Britain January 14, 1946
18 Claims. (Cl. 8—34)

1. In the art of treating textile material in continuous length with an aqueous liquor selected from the group consisting of dyeing, dyestuff fixing, bleaching and scouring liquors and wherein the textile material is penetrable by said aqueous liquor, the steps which comprise continuously passing said textile material, without first passing the same through a bath of molten metal whereby the textile material will be free of metal penetrations and adhesions, through a fluid layer of said aqueous liquor floating on a bath of molten metal which does not chemically react with said textile material and the aqueous liquor thereon, passing the textile material directly from the aqueous liquor into said molten metal bath without exposure to the atmosphere, and continuously passing the treated textile material downwardly to a substantial depth, laterally and upwardly in a continuous molten metal path, whereby aqueous liquor taken up by the textile material as the latter travels through the floating layer may be subjected during its passage through said path of molten metal to chemical reaction, penetration and uniform squeezing due to the temperature and the pres-

sure of the molten metal, the melting point of the metal of the molten metal bath being not



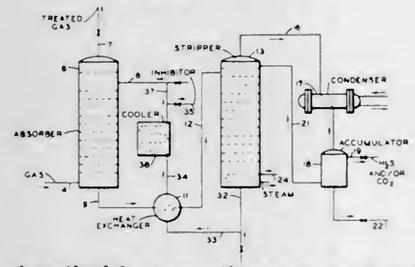
more than about 100° C. and the molten metal having a temperature below that at which substantial ebullition of the aqueous liquid occurs.

2,668,748

REMOVAL OF ACIDIC SUBSTANCES FROM FLUID MIXTURES BY AQUEOUS AMINE SOLUTIONS AND THE PREVENTION OF CORROSION THEREIN

Howard C. Asbury, Cactus, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 18, 1951, Serial No. 262,316
15 Claims. (Cl. 23—2)



1. A method for preventing corrosion to metallic surfaces by an aqueous amine solution which becomes corrosive thereto which comprises adding to said aqueous amine solution and maintaining therein a minor amount of at least one from the group consisting of an extract, pulp and fibres of at least one member of the genus Allium of the lily family.

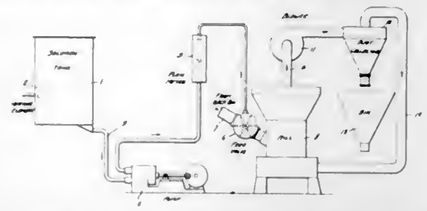
2,668,749

PROCESS OF PREPARING CALCIUM CARBONATE COMPOSITION

Brack B. McHan, Quincy, Ill., assignor to Calcium Carbonate Company, Chicago, Ill., a corporation of Illinois

Application October 4, 1948, Serial No. 52,755
13 Claims. (Cl. 23—66)

1. A method of preparing pulverized limestone resistant to caking on extended storing comprising metering from .025 to .3% by weight of a substance containing the oleate radical onto dry limestone rock as it is continuously fed into a continuous type pulverizer, and rapidly pulverizing the rock therein in the presence of said oleate substance to form a product in which the size of substantially all particles ranges from 1 to 100



microns in diameter, the limestone being pulverized and passing through the pulverizer in about three minutes or less.

2,668,750

PURIFICATION OF BY-PRODUCT HALIDE SALTS

Ignace Joseph Krchma, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 7, 1952, Serial No. 270,500
5 Claims. (Cl. 23—91)

5. A method for removing titanium impurities present in by-product magnesium chloride obtained in the reduction of titanium tetrachloride with magnesium which comprises subjecting said chloride while in the molten state and at temperatures ranging from 750–1050° C. to direct contact with sufficient gaseous chlorine to convert its titanium values to titanium tetrachloride, removing the titanium tetrachloride formed from the molten bath by vaporization, and separately recovering the purified magnesium chloride and titanium tetrachloride products.

2,668,751

PROCESS FOR PRODUCTION OF ALUMINA

John L. Porter, Baton Rouge, La., assignor to Kaiser Aluminum & Chemical Corporation, Oakland, Calif., a corporation of Delaware

No Drawing. Application December 30, 1949, Serial No. 136,161
12 Claims. (Cl. 23—143)

1. In a process for the extraction of alumina from aluminous ores containing mixtures of trihydrate and monohydrate alumina wherein the major portion of the total available alumina is trihydrate by the wet alkali aluminate digestion method wherein substantially all of the trihydrate and only a portion of the monohydrate alumina is extracted, the improvement of inhibiting reversion of soluble alumina to insoluble monohydrate alumina, which comprises calcining the ore to a residual ignition loss of from about 2 to about 5% by weight of the ore prior to digestion in the caustic aluminate liquor.

2,668,752

PROCESS FOR THE PRODUCTION OF CARBON DISULFIDE

Hillis O. Folkins, Crystal Lake, and Elmer Miller, Evanston, Ill., assignors, by mesne assignments, to Food Machinery and Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 9, 1949, Serial No. 126,436
9 Claims. (Cl. 23—206)

1. The method of preparing carbon disulfide comprising, contacting a mixture of sulfur vapor and hydrocarbon gas with a catalyst comprising zirconia gel, at a temperature of approximately 550° to 700° C.

2,668,753

PRODUCTION OF HYDROGEN PEROXIDE

Charles R. Harris, Lockport, and Jerome W. Sprauer, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 5, 1949, Serial No. 125,847
13 Claims. (Cl. 23—207)

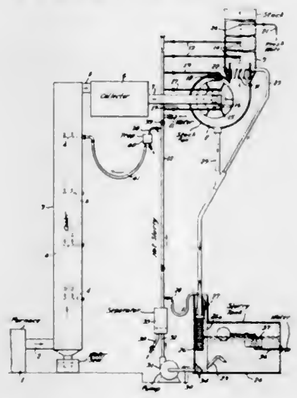
1. In a cyclic process for the production of hydrogen peroxide wherein a substance from the group consisting of alkylated anthraquinones, tetrahydro alkylated anthraquinones and mixtures thereof, is hydrogenated to form a substance from the group consisting of alkylated anthrahydroquinones, tetrahydro alkylated anthrahydroquinones and mixtures thereof, which is oxidized to produce hydrogen peroxide and to regenerate said first named substance for recycling in the process, the improvement which comprises employing as solvent in both the reduction and oxidation steps of said process a mixture comprising a substance from the group consisting of the primary and secondary nonyl alcohols and mixtures thereof, and a substance from the group consisting of the monomethyl- and dimethyl-substituted naphthalenes and mixtures thereof.

2,668,754

PROCESS FOR RECOVERING CARBON BLACK FROM A GASEOUS SUSPENSION

Merle F. Lichtenfels, Monroe, La., assignor to Columbian Carbon Company, New York, N. Y., a corporation of Delaware

Application February 23, 1950, Serial No. 145,701
3 Claims. (Cl. 23—209.9)



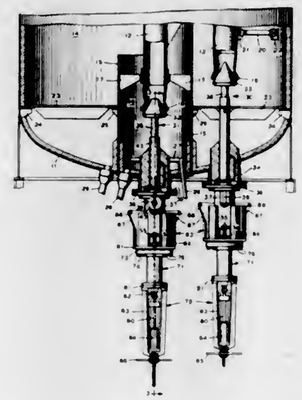
1. The process of recovering carbon black from a hot gaseous suspension thereof produced by a carbon black furnace which comprises passing the gaseous suspension through a cooling zone, spraying it in said cooling zone with a fluid aqueous slurry of carbon black thereby vaporizing the water constituent of the slurry and reducing the temperature of the hot gases, passing the cooled gaseous suspension through a dry precipitating zone and there separating a major portion of the suspended carbon from the cooled gases in a dry state, passing the gases with residual carbon suspended therein through a washing zone and there contacting the gases with a continuously recycled fluid aqueous slurry of carbon black thereby removing residual carbon from said gases, withdrawing a portion of said carbon black slurry from the washing cycle and spraying this slurry into the hot gaseous suspension in the cooling zone, and adding make-up water to the recycled slurry to maintain substantially constant the volume of slurry in the cycle.

2,668,755

PLUG-TYPE CONTROL VALVE FOR FLUIDIZED CATALYST CONVERSION SYSTEM

Harold Kershaw, River Edge, N. J., and Edward D. Dowling, Queens Village, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

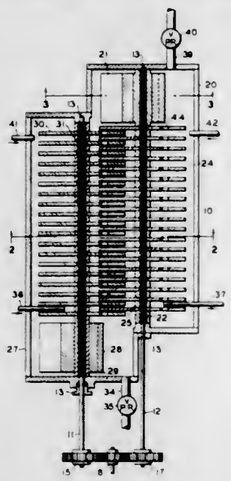
Application November 23, 1948, Serial No. 61,622
3 Claims. (Cl. 23—288)



3. In a fluidized catalyst conversion system in which fluids are contacted with erosive entrained solids at high temperatures within a large contacting chamber, and in which said fluids, containing erosive entrained solids, are flowed from said chamber into the inlet of a conduit together with a second fluid introduced into said conduit from an external source, a unitary removable valve assembly for controlling the flow of solids from said chamber into said conduit and for simultaneously introducing fluid into said conduit, which includes: a housing adapted to be demountably attached to the external surfaces of said chamber and aligned with said conduit inlet, said housing having an integral section projecting into the high temperature region within said chamber and an external section projecting outside of said chamber; a hollow-stem plug valve reciprocable in said internal section of said housing and adapted to enter said conduit inlet and having said hollow-stem in open communication with the interior of said conduit through an orifice in the plug end; packing means in the lower part of the external section of said housing; actuating rod means connected to said hollow-stem valve and reciprocable in said packing, said actuating rod means having a cross-section substantially less than the cross-section of said hollow-stem portion of said hollow-stem valve means, and substantially less than the interior cross-section of said housing to provide an annular space within the external section of said housing, said annular space being in open communication with said hollow-stem; coupling means on said external portion of said housing adapted to be connected to said external source of said second fluid for introduction into said conduit by way of said annular space, said hollow-stem, and said orifice in said plug valve;

and positioning means in cooperative engagement with said actuating rod means to regulate the position of said hollow-stem valve along its path of movement.

2,668,756
METHOD OF AND APPARATUS FOR LIQUID-LIQUID CONTACTING
Samuel C. Carney, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 27, 1948, Serial No. 51,405
6 Claims. (Cl. 23—310)



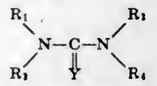
6. In the art of liquid-liquid contacting, the steps which comprise effecting countercurrent flow of a light liquid and a heavy liquid through a mixing zone, centrifuging the liquids as they pass through the mixing zone to establish an interface between the light and heavy liquids, and continuously passing a film of one liquid at high velocity from a region within the body of said one liquid spaced from the interface through the interface into a region of the body of the other liquid spaced from said interface.

2,668,757
METHOD OF PREPARING NONAQUEOUS CARBON DISPERSIONS
Virgil L. Hansley, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 31, 1949, Serial No. 113,481
7 Claims. (Cl. 44—51)

1. A method of forming a fluid, non-aqueous composition comprising a dispersion of carbon particles ranging in size from 1 to 200 microns in an organic dispersing liquid, said composition containing 1 to 60% by weight of dispersed carbon particles, which method comprises reacting in an agitated body of said liquid a higher fatty acid with an alkali metal whereby an alkali metal soap of said higher fatty acid is formed in and uniformly distributed throughout said liquid in an amount corresponding to 0.05 to 5% of the total weight of the final mixture, and agitating a mixture of said carbon particles and said liquid containing said soap, said liquid being inert towards said carbon, said soap and said soap-forming reactants.

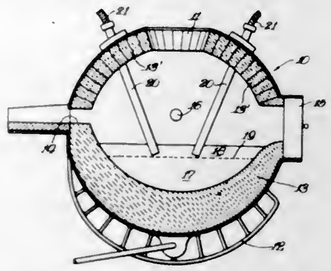
2,668,758
DEFOLIANT COMPOSITIONS
Elizabeth S. Roos, Belleville, Ill., and Philip C. Hamm, Webster Groves, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 3, 1952, Serial No. 297,177
18 Claims. (Cl. 71—2.7)

2. A plant defoliant composition which comprises, as the essential active ingredient, from 0.01% to 10% by weight of a compound having the formula



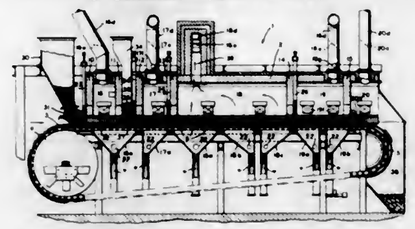
wherein Y is a chalkogen selected from the group consisting of oxygen and sulfur and wherein R_1, R_2, R_3 and R_4 are alkyl groups; and a fluent carrier containing from 0.1% to 5% by weight of a wetting agent.

2,668,759
STEELMAKING PROCESS
Michael Tenenbaum, Flossmoor, Ill., assignor to Inland Steel Company, Chicago, Ill., a corporation of Delaware
Application May 22, 1952, Serial No. 289,353
6 Claims. (Cl. 75—52)



1. A process for making low phosphorus low nitrogen steel from pig irons of widely varying phosphorus content, said process comprising introducing into a basic lined refining zone the iron in molten state, an iron-oxide bearing material, and a lime-containing basic slag-forming reactant in a predetermined amount sufficient to obtain a basic slag having a weight per cent ratio of lime to silica of at least about 1.5, injecting an oxidizing gas having an oxygen content in excess of about 21% by volume substantially at the metal surface and thereby turbulently intermixing the slag, iron oxide, and metal phases with consequent early elimination from the metal of phosphorus to not more than about .04% and simultaneous elimination of at least about .4% carbon but leaving at least about 1% carbon in the metal, said turbulent intermixing being substantially enhanced by the gases evolved during said simultaneous elimination of carbon and an operating temperature of not less about 2500° F. being developed whereby obtainment of said ratio of lime to silica in the slag and elimination of phosphorus to substantially the extent required in the final product are both accomplished while the carbon content of the metal is not less than about 1%, and continuing the injection of said gas into the molten metal until the carbon content is reduced to the desired final extent by oxidation thereof, the heat evolved during the exothermic refining and slag-forming reactions being the sole source of heat during the process.

2,668,760
CONTINUOUS PRODUCTION OF METALLIC ZINC FROM OXIDIC ZINC ORES
Frank G. Breyer, Wilton, Conn., and Andre Delruelle, Trooz, Belgium, assignors to Singmaster & Breyer, New York, N. Y., a copartnership
Application February 24, 1949, Serial No. 78,024
9 Claims. (Cl. 75—88)



1. A process for the production of metallic zinc which comprises providing a gas-pervious ignited bed of mixed carbonaceous fuel and oxidic zinc ore, wherein such fuel underlies mixed fuel and ore, in a furnace chamber having a heat-insulated gas space over the bed, therein blowing into said bed enough oxygen-containing gas to burn the fuel partially and produce heat sufficient for active reduction of the ore, thus generating into said space hot combustion and reduction gases of reducing character of which the zinc content consists practically entirely of metallic vapor in low concentration, excluding free oxygen from said space and maintaining the gases in said space reducing to the zinc content and not substantially below the reaction temperature, and, while excluding external oxidizing gas, conducting the hot gases in such reducing state from said space directly into a condenser and there chilling the gases abruptly to a temperature at which the zinc vapor therein condenses to a substantially unoxidized metallic form.

2,668,761
PRODUCTION OF CELLULOSE
Stanley Charles Bate, Francis George Peach, and Walter Alan Rogerson, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain
No Drawing. Application April 27, 1950, Serial No. 158,594
Claims priority, application Great Britain May 27, 1949
11 Claims. (Cl. 92—9)

1. Process for producing cellulose from lignocellulosic material, which comprises heating ligno-cellulosic material to a temperature between 120° and 150° C. with an anhydrous homogeneous liquid mixture of a chlorinated fatty acid containing up to three carbon atoms in the molecule and an organic diluent inert to the chlorinated fatty acid, the concentration of the chlorinated fatty acid in the mixture being 45–85% by weight.

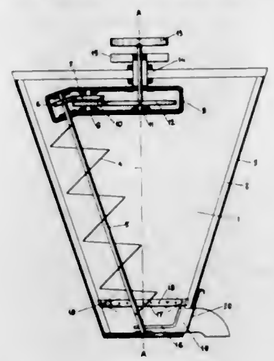
2,668,762
PROCESS OF PRODUCING SCREENS
Leon Rubinstein, New York, N. Y.
No Drawing. Continuation of abandoned application Serial No. 352,517, August 14, 1940. This application February 20, 1946, Serial No. 649,120
15 Claims. (Cl. 95—81)

5. A process of producing a screen on a transparent base having a gelatinous emulsion layer thereon, comprising the step of corrugating the outer surface of said gelatinous emulsion layer by treatment with an oxidizer solution comprising formaldehyde and a halogen and also at least an acid selected from the group consisting of hydrochloric acid, sulphuric acid and nitric acid.

2,668,763
NONACID PHOTOGRAPHIC OXIDIZERS
Leon Rubinstein, New York, N. Y.
No Drawing. Application April 11, 1949, Serial No. 86,867
3 Claims. (Cl. 95—88)

1. A non-acid, photographic oxidizer-modifier for adjusting the clarity of, and retouching, developed photographs, negative as well as positive, which comprises an aqueous solution of concentrated iodine, decolorized iodine, and a lower aliphatic water-soluble aldehyde.

2,668,764
METHOD AND DEVICE FOR CONCHING A CHOCOLATE MASS AND THE LIKE
Johannes E. Nauta, Overveen, Netherlands
Application October 3, 1950, Serial No. 188,095
Claims priority, application Netherlands October 14, 1949
2 Claims. (Cl. 99—23)



1. The method of conching chocolate comprising the steps of introducing a mass of melted chocolate into a confined space defined by a wall gradually tapering from top to bottom, maintaining the chocolate mass in said confined space at a raised temperature, continuously elevating the heated chocolate mass along a helical path about an axis which is parallel to the tapering wall of said confined space and gyrates about the central vertical axis of said space, and dropping the elevated chocolate mass from the top of said confined space to fall under the influence of gravity through the central portion of said confined space in a direction counter-current to the upward path of the chocolate mass being elevated.

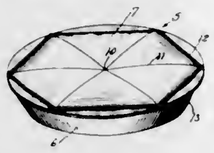
2,668,765
FROZEN CONCENTRATED MILK PRODUCTS
Edwin G. Stimpson, Sayville, N. Y., assignor to National Dairy Research Laboratories, Inc., Oakdale, N. Y., a corporation of Delaware
No Drawing. Application November 2, 1951, Serial No. 254,661
13 Claims. (Cl. 99—55)

1. A process of preparing a frozen concentrated milk product having improved resistance to the development of age thickening upon storage, comprising blending lactase hydrolyzed lactose-containing milk solids with a concentrated milk product and freezing the resulting concentrate.

2,668,766
PROTEIN ADHESIVES
Arthur C. Beckel, Peoria, and Paul A. Belter, Pekin, Ill., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application December 31, 1948, Serial No. 68,442
1 Claim. (Cl. 99—81)
(Granted under Title 35, U. S. Code (1952), sec. 266)

A solid material having as a bonding agent therefor a coating comprising essentially the water-extractable component of alcohol-extracted proteinaceous soybean residue, said component containing water-soluble constituents comprising proteins, carbohydrates, albumins, and proteoses.

2,668,767
PIE AND PIE CRUST BLANK
James F. Lowe, Wayne Township, Du Page County, Ill.
Application February 21, 1952, Serial No. 272,758
5 Claims. (Cl. 99—92)

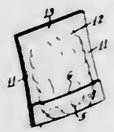


1. A star-shaped pie crust blank made of dough and having a substantially circular potential bottom crust portion and radially therefrom outwardly extending triangular upper-crust pieces foldable along chords of said circular portion, the altitude of said pieces being greater than the radius of said circular portion.

2,668,768
STABILIZATION OF EDIBLE FATS AND OILS
Joseph A. Chenicek, Bensenville, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application October 17, 1949, Serial No. 121,906
9 Claims. (Cl. 99—163)

1. A method of stabilizing edible fats and oils against rancidity which comprises adding thereto a 4-alkoxyphenol having at least one ring hydrogen substituted by an alkylthioalkyl group.

2,668,769
PAPER PACKAGE AND METHOD OF MANUFACTURE
Ralph W. Schlienz, Harrington Park, N. J., assignor to Riegel Paper Corporation, New York, N. Y., a corporation of New Jersey
Application September 27, 1951, Serial No. 248,475
5 Claims. (Cl. 99—171)



1. An envelope package comprising two sheets having their margins sealed together along three edges, one of said sheets being folded along the fourth edge of the package to overlap the outside margin of the other sheet and being adhesively secured thereto along a band of less width than the overlap, said band being spaced from the edge of the overlapped portion remote from the fold to leave a free central pull flap for opening the package, the ends of said pull flap being adhesively secured to said margins.

2,668,770
MANUFACTURE OF MEAT-CURING COMPOSITION
Lloyd A. Hall, Chicago, Ill., assignor to The Griffith Laboratories, Inc., Chicago, Ill., a corporation of Illinois
No Drawing. Application June 29, 1951, Serial No. 234,459
7 Claims. (Cl. 99—222)

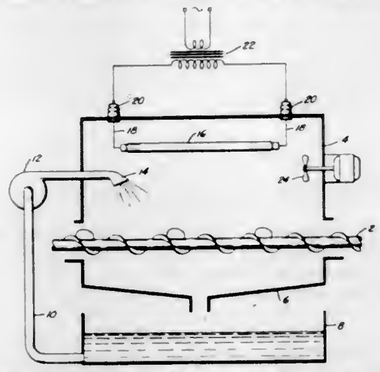
1. The method which comprises subjecting a water containing hardness resulting from dissolved carbonates of metals selected from the group consisting of calcium and magnesium to base-exchange with insoluble alkali-metal-base exchange material capable of yielding to the water the alkali-metal of its alkali-metal salt structure, whereby to convert the said carbonates to a carbonate of alkali metal, dissolving in said treated water quantities of sodium chloride, and of oxygen-containing nitrogen meat-curing salt of alkali metal including essentially alkali-metal nitrite, said quantities being such as to form from said solution on flash drying a mass of sodium chloride crystals having heart-like centers of said oxygen-containing nitrogen curing salt, adding also to said treated water for each 1000 parts by weight of total salt upwardly from approximately 3 parts by weight of hygroscopic material selected from the group consisting of glycerin, sorbitol and propylene glycol, and flash drying said solution to heart-center crystals.

2,668,771
STABLE CURING SALT COMPOSITION AND MANUFACTURE THEREOF
Lloyd A. Hall, Chicago, Ill., assignor to The Griffith Laboratories, Inc., Chicago, Ill., a corporation of Illinois
No Drawing. Application June 29, 1951, Serial No. 234,460
14 Claims. (Cl. 99—222)

1. A curing salt composition having a stabilizing pH not under 7.4 and comprising sodium chloride crystals having heart-like centers of oxygen-containing nitrogen meat-curing salt of alkali metal including essentially alkali-metal nitrite, a minor quantity of a hygroscopic partitioning anti-caking agent selected from the group consisting of glycerin, sorbitol and propylene glycol, and a small and sequestering quantity of water-soluble sequestering polyphosphate salt in sequestering relation to metal molecules which in cation form are oxidation catalysts for said nitrite salt, whereby said nitrite salt is stabilized on storing of the mixture.

2,668,772
BLEACHING PROCESS
Harry A. Mulvany, Berkeley, Calif.
Application April 5, 1951, Serial No. 219,487
7 Claims. (Cl. 99—230)

1. The process of bleaching shell eggs which consists in maintaining said shell eggs in contact with hydrogen peroxide while irradiating the shell eggs with ultra violet radiation for a period sufficient to ensure a desired color change, said ultra-violet radiation being used as a bactericidal agent and also to accelerate the action of the hydrogen peroxide.



2,668,773
BOOT GREASE AND LEATHER PRESERVATIVE AND METHOD OF PRODUCING IT
Howard C. Schmid, Missoula, Mont.
No Drawing. Application May 11, 1951, Serial No. 225,929
2 Claims. (Cl. 106—7)

1. The process of producing a waterproofing, preserving, and polishing compound for leather goods consisting of placing four parts of pine tar in a container, superposing three parts of fish oil on the pine tar, heating the bottom of the container slowly, then stirring and adding six parts of melted, unrefined beeswax after which the compound is thoroughly stirred and allowed to cool slightly, then one drop of oil of rhodium is added for each seven ounces of the compound which is then allowed to cool and solidify.

2,668,774
MOLD SURFACE COATING
Louis H. Heyl, Rocky River, Ohio
No Drawing. Application September 12, 1950, Serial No. 184,523
4 Claims. (Cl. 106—38.25)

4. A coating composition for core or mold surfaces used in the art of metal casting, consisting essentially of a refractory material, a binding material consisting of an aqueous asphalt emulsion, the binder being present in a proportion between 2% and 50% by weight, and water being added in sufficient quantity to make a solution having a gravity of substantially 32 degrees Baumé.

2,668,775
THERMOPLASTIC REFRACTORIES
James W. Craig, Montreal, Quebec, Canada, assignor to Canadian Refractories Limited, Montreal, Quebec, Canada, a corporation of Canada
No Drawing. Application October 30, 1950, Serial No. 193,035
7 Claims. (Cl. 106—61)

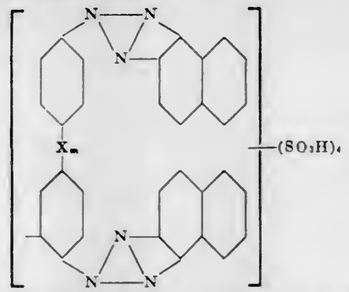
1. A batch mixture for thermoplastic refractories consisting essentially of two unreacted constituents, the first constituting from 80 to 97% by weight of the batch mixture and consisting of highly refractory basic particles composed essentially of magnesia and lime and selected from the group consisting of raw and burned dolomite and raw and burned dolomitic magnesite, and the second constituting from 3% to 20% by weight of the mixture on the basis of its non-volatile constituents, and being a coalescing agent having a melting point not higher than 1400° C. and containing 15% to 40% of silica and at least 45% of metal oxide from the group consisting of ferrous oxide, manganous oxide and alumina, of which ferrous oxide constitutes the major portion, the quantity of lime in the said batch mixture being at least sufficient to form dicalcium silicate with all the silica therein.

2,668,776
TITANIUM DIOXIDE PIGMENT AND METHOD OF PREPARING
Neville F. Miller, Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 18, 1950, Serial No. 150,563
6 Claims. (Cl. 106—300)

1. The method of improving the drying rate and stability of a titanium dioxide pigment which comprises suspending the pigment in a aqueous medium, effecting dispersion of the pigment in said medium by adding an alkali metal orthophosphate thereto, subsequently precipitating a dispersion of an aluminum orthophosphate product throughout the dispersed pigment by adding a water-soluble aluminum salt thereto, the amounts of the alkali metal orthophosphate and aluminum salt added to the pigment suspension being such as to precipitate therein between 1% and 3.5% by weight of said aluminum orthophosphate product in which the molar ratio of alumina to phosphoric pentoxide is at least 1:1, and separating the resulting aluminum orthophosphate-containing pigment from the aqueous medium.

2,668,777
WHITENING AGENTS FOR ORGANIC MATERIALS
Heinrich Gold, Opladen, and Siegfried Petersen, Leverkusen - Schlebusch, Germany, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany, a corporation of Germany
No Drawing. Application October 5, 1949, Serial No. 119,757
Claims priority, application Switzerland October 16, 1948
8 Claims. (Cl. 117—33.5)

1. A compound of the group consisting of acids of the general formula:



wherein X stands for a vinylene and m for a whole number from 0 to 1, and salts of such acids selected from the group consisting of the alkali metal, ammonium, alkaline earth and amine salts, said compounds being substantially colorless and possessing an excellent whitening effect.

3. White organic materials having incorporated therein an effective amount of a whitening agent as defined in claim 1.

2,668,778

METHOD OF FORMING A PHOTO EMITTER

Ernest A. Taft, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application January 10, 1952, Serial No. 265,917
4 Claims. (Cl. 117—33.23)

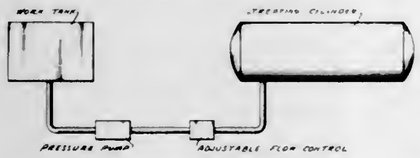
1. The method of forming a photo emitter which comprises depositing a layer of elemental tellurium on a conducting base material, and contacting said tellurium layer under vacuum with a vapor of a metal selected from the group consisting of cesium and rubidium until said vapor has reacted in stoichiometric quantities with said tellurium.

2,668,779

PRESSURE PROCESS FOR IMPREGNATING WOOD

Mervin J. Herman, Orrville, Ohio, assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

Application December 16, 1948, Serial No. 65,663
7 Claims. (Cl. 117—59)



1. In a process for impregnating unseasoned wood in which the wood is first dried by heating with steam followed by drawing a vacuum on the thus treated wood and then impregnated with a liquid impregnant the method whereby unseasoned pine having a specific gravity less than 0.45 may be effectively impregnated which comprises; in the impregnating step confining the dried, unseasoned wood and impregnating liquid under fluid pressure in a closed pressure vessel and pumping additional impregnating liquid into the so-closed vessel at a substantially constant rate over substantially the entire period of the impregnation, said rate being less than 3–4.5 pounds of impregnating liquid per cubic foot of wood per hour whereby each increment of impregnating liquid pumped into the filled treating vessel necessarily is forced into the wood and the pressure is a function of the resistance the wood offers to the flow of impregnating liquid into its interior.

2,668,780

METHOD FOR RENDERING CELLULOSIC MATERIALS FIRE RESISTANT

Irene M. Panik, Elizabeth, N. J., and William F. Sullivan, Oak Ridge, Tenn., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 27, 1951, Serial No. 258,533
4 Claims. (Cl. 117—62)

1. Method for imparting fire resistance to fibrous cellulosic material which comprises impregnating said material with a transparent aqueous solution of a substance selected from the group consisting of titanium oxychlorides, titanium chloride acylates selected from the group consisting of titanium chloride formate, titanium chloride acetate and titanium chloride propionate, and mixtures thereof, partially drying the impregnated material by evaporation until from 50% to 75% of the weight of said solution in said material is removed, thereby forming a transparent gel, alkalizing said gel in said material with an aqueous alkaline solution, and washing and drying said material, the resulting titanium substance being retained in said material in the form of a wash-fast, stable, transparent gel-like structure.

2,668,781

ANTISTICK COATED, STEEL BUILDING SHEET

Paul W. Jenkins, Pittsburgh, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application September 22, 1951, Serial No. 247,853
2 Claims. (Cl. 117—85)

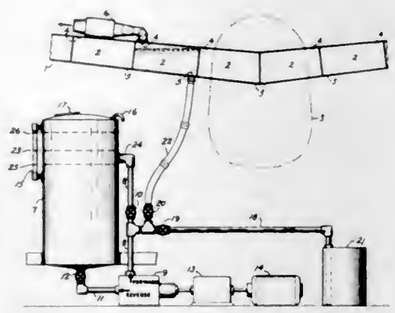
1. A building sheet for roofing and siding purposes, comprising a protected steel core sheet having an outer protective waterproofing, bituminous coating characterized by a normally tacky surface, and a film covering said tacky surface and comprising a water-soluble cellulose ether and a plasticizer therefor consisting of a monoalkyl ether of a polyalkylene glycol, the alkyl group having 1 to 4 carbon atoms.

2,668,782

PROCESSES FOR COATING THE INTERIOR SURFACES OF TANKS

Bernard Gross, San Diego, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California

Application May 31, 1950, Serial No. 165,150
2 Claims. (Cl. 117—97)



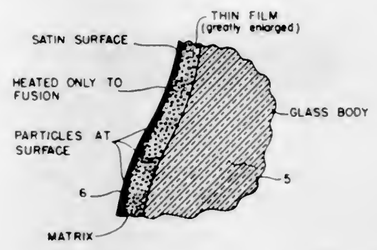
1. The process of forming a continuous leakproof coating on the bottom and sidewalls of a metal tank having a top closure provided with an inlet opening; and the tank bottom having a drain opening: comprising the steps of pumping into the drain opening a coating liquid composed of an organic resin dissolved in a volatile solvent until the bottom and side walls are covered with the coating liquid; pumping out through the drain opening the residue of the coating liquid at a rate fast enough to leave an adherent coating of the desired thickness while simultaneously withdrawing through the inlet opening the volatile vapors arising from the liquid coating at a rate sufficient to reduce the pressure in the tank below atmospheric pressure and promote evaporation of the volatile solvent from the coating on the sidewalls; and subsequently passing air into the drain opening and out through the inlet opening to remove any residue solvent vapors from the tank.

2,668,783

PROCESS OF SURFACE FINISHING GLASS AND ARTICLE PRODUCED THEREBY

William J. Migley, Lancaster, Ohio, assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware

Application October 21, 1949, Serial No. 122,653
5 Claims. (Cl. 117—124)



1. The process for forming a decorative coating on a glass article comprising compounding frit-forming, glass-surfacing materials in a powdered granular mixture, bringing said mixture to and not above its fusion point, and maintaining the mixture at this temperature to avoid exceeding the fusion point, hardening and fracturing said fused mixture by liquid immersion as soon as the mass becomes molten and grinding and mixing it in a liquid medium with powdery particles of a higher melting compound to provide a liquid suspension thereof, said high melting particles being adapted to impart a satiny finish to the final coating, coating said liquid suspension as a film on the surface of said article and progressively increasing the temperature of said coating and article to the point of fusion of the frit particles whereby initial development of a gloss follows but below the melting point of said powdery particles, so that there is accumulated in said film at the outer surface thereof a relatively large proportion of said higher melting particles in sufficient concentration there to predominate over said initial gloss and impart a satiny finish to the surface of the film, and then immediately terminating said heating at said point and before the spreading of the melted ingredients into a gloss, and thereby fixing said satiny surface as a permanent decoration of said article.

2,668,784

PROCESS FOR FLAMEPROOFING TEXTILE MATERIALS

William Leonard Dills, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 4, 1951, Serial No. 245,089
6 Claims. (Cl. 117—138)

1. A method for treating a cellulosic material to impart flame-resistance characteristics thereto, comprising contacting said material with an acidic aqueous solution of titanium and tervalent antimony diluted with a dissolved, volatile, initially stable organic liquid, said solution having from about 12–600 g./l. of combined titanium and antimony oxides with the weight Ti/Sb ratio in said solution not exceeding 10 and the atomic Sb/Ti ratio not exceeding 2 and said dissolved organic liquid being present in an amount ranging from 5–70% by weight of the final solution, removing a portion of said organic liquid from the resulting treated cellulosic product by evaporating such portion therefrom, subjecting said treated product to alkali treatment to neutralize residual acid present after contact of said material with said solution, and then washing the neutralized product in aqueous media and recovering the neutralized, flame-resistant product from said media.

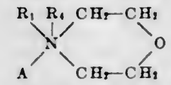
2,668,785

FILAMENTOUS TEXTILE HAVING A PROCESSING FINISH

George D. Jefferson, Embreeville, Pa., and Richard De Mott Fine III, Merchantville, N. J., assignors to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 3, 1950, Serial No. 153,764
14 Claims. (Cl. 117—139.5)

1. A filamentous textile having incorporated therewith, a processing finish consisting essentially of from 50% to 97.5% of a scourable textile lubricant selected from the group consisting of (1) partial esters of neutral polyhydroxylic organic compounds with from 2 to 6 carbon atoms and saturated fatty acids with from 12 to 30 carbon atoms, (2) diesters of hexides and saturated fatty acids with from 12 to 30 carbon atoms, (3) water-insoluble esters of polyoxyalkylene ethers of neutral polyhydroxylic compounds with from 2 to 6 carbon atoms and saturated fatty acids with from 12 to 30 carbon atoms, and (4) water-insoluble polyoxyalkylene ethers of partial esters of neutral polyhydroxylic organic compounds with from 2 to 6 carbon atoms and saturated fatty acids with from 12 to 30 carbon atoms, and from 50% to 2.5% of a quaternary morpholinium compound of the formula:



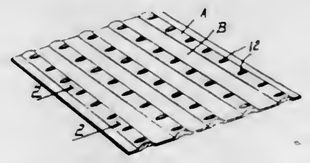
wherein, A is an alkyl sulfate anion having from 1 to 2 carbon atoms, R_1 is an aliphatic radical containing from 12 to 30 carbon atoms, and R_4 is an alkyl radical having from 1 to 2 carbon atoms.

2,668,786

CORRUGATED PACKING SHEET

Eugene L. Perry, Bloomfield, N. J.; Helen M. Swope and Grace Gubernator, executrices of said Eugene L. Perry, deceased, assignors, by mesne assignments, to Packaging Materials Corp., Providence, R. I., a corporation of Rhode Island

Application June 22, 1949, Serial No. 100,702
1 Claim. (Cl. 154—55)



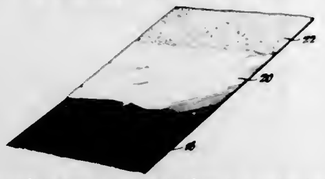
As a new article of manufacture, a packing sheet of felted pulp having corrugations built up of substantially uncompressed pulp with intervening portions pressed to greater density, the opposite face of the sheet having shallow recesses extending therein opposite said corrugations, and spaced score lines on the corrugated face of the sheet extending transversely of the corrugations, the spaces between said corrugations being not less in width than the corrugations.

2,668,787

METHOD OF MAKING A BONDED PERMEABLE ARTICLE

August F. Schramm, Jr., White Plains, N. Y.

Application January 9, 1951, Serial No. 205,087
6 Claims. (Cl. 154—92)



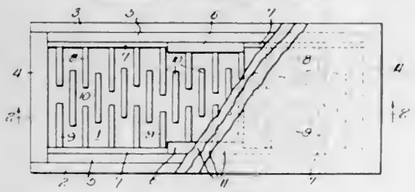
1. In making a coated sheet material that is permeable to air and moisture, the method which comprises applying to the face of a permeable sheet a thin film of a viscous aqueous dispersion of an organic thickening agent in the proportion of 0.5 part to 5 parts of the thickening agent for 100 parts of the dispersion, the said dispersion remaining on the face of the sheet, then applying directly upon the said film in wet condition a free-flowing mass of fine particles of normally solid thermoplastic material that are insoluble in the said dispersion and are softenable individually to flowable fluid condition at a temperature of 300°–400° F., removing those of the said particles not directly in contact with the said film, this removal developing spaces between the remaining thermoplastic particles, and heating the sheet, film and remaining spaced thermoplastic particles to the temperature of softening of the said particles to flowable fluid condition, this heating causing loss of water and development of discontinuity of the film residue so produced and finally causing softening of the remaining thermoplastic particles and penetration of them within the surface portion of the said sheet.

2,668,788

METHOD OF FORMING A HOLLOW CORE PLYWOOD DOOR

Joseph J. Waldherr, Marshfield, Wis., assignor to Roddis Plywood Corporation, Marshfield, Wis., a corporation of Wisconsin

Application December 16, 1948, Serial No. 65,677
4 Claims. (Cl. 154—118)



1. The method of utilizing waste saw lumber in the construction of hollow core plywood doors which comprises: forming from said waste saw lumber random length blocks of essentially I section and of uniform height and width; arranging a plurality of said blocks in spaced apart relation in a core pattern; laying up a door frame on the upper face of a plywood facing panel that has glue applied thereto; registering said plurality of core blocks in said pattern within said frame and depositing the blocks upon said panel; placing a second facing panel that has glue on one face on said frame and core blocks with the glue face engaging the frame and blocks; and clamping and heating said assembly to cure the glue and thereby bond the door parts together.

2,668,789

COMPOSITE RUBBER AND RESINOUS PLASTIC MATERIALS AND METHOD OF MAKING SAME

Ellis H. Phreaner, Los Angeles, Calif., assignor of one-third to H. Calvin White, Pasadena, Calif.

Application October 16, 1950, Serial No. 190,443
18 Claims. (Cl. 154—139)



1. The composite vulcanized rubber and resinous plastic product formed by simultaneously curing a heated thermal setting polyester alkyd resinous plastic composition subject to cure inhibition in the presence of rubber anti-oxidants, and a contacting body of a non-resinous rubber material comprising a vulcanizable rubber composition of the class consisting of polychloroprene, butadiene-acrylonitrile copolymers, butadiene-styrene copolymers, chlorinated copolymers of butadiene and acrylonitrile, and rubber composition containing an oxidizing agent the effect of which is to impart oxidizing properties to the vulcanized rubber at the rubber-plastic composition interface and the vulcanized rubber and plastic composition being integrated at said interface.

13. The process that includes simultaneously curing a heated thermal setting polyester alkyd resinous plastic composition subject to cure inhibition in the presence of rubber anti-oxidants, and vulcanizing a heated contacting body of a non-resinous rubber material comprising a vulcanizable rubber composition of the class consisting of polychloroprene, butadiene-acrylonitrile copolymers, butadiene-styrene copolymers, chlorinated copolymers of butadiene and acrylonitrile, said rubber composition containing an oxidizing agent the effect of which is to impart oxidizing properties to the vulcanized rubber at the rubber-plastic composition interface, and thereby integrating the vulcanized rubber and plastic composition at said interface.

2,668,790

ISOMERIZATION OF PARAFFIN WAX

George M. Good, Amsterdam, Netherlands, and John W. Gibson and Bernard S. Greensfelder, Oakland, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application January 12, 1953, Serial No. 330,894
4 Claims. (Cl. 196—50)

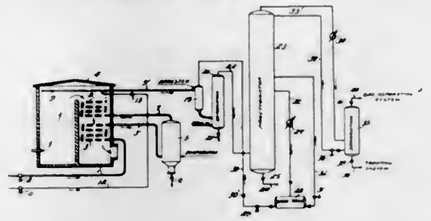
1. A process for the production of a lubricating oil from paraffin wax which comprises contacting a molten normally solid paraffin wax in the liquid phase and with at least one mole of hydrogen per mole of wax with a supported platinum catalyst at a temperature between about 300° C. and about 500° C. and under a pressure between about 50 and 3000 p. s. i. g. for a contact time of at least 5 minutes but insufficient to produce more than 25% conversion to cracked products of lower molecular weight, cooling the product, separating and recycling the hydrogen-containing gas, distilling the product to remove a lubricating oil distillate, and subjecting the said distillate to a dewaxng treatment to separate unconverted wax from the liquid oil.

2,668,791

CONTROL OF GAS PRODUCTION IN THE VAPOR PHASE CONVERSION OF LIQUID HYDROCARBONS

William W. Holland, Baltimore, Md., assignor to The Gyro Process Company, Detroit, Mich., a corporation of Michigan

Application October 16, 1948, Serial No. 54,946
9 Claims. (Cl. 196—61)



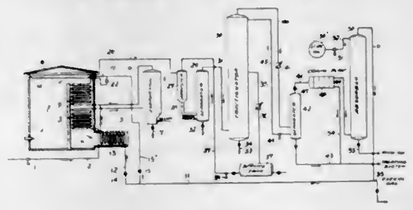
1. A process for the conversion of higher-boiling hydrocarbons into lower boiling hydrocarbons, the steps which comprise: heating at non-converting temperatures mixed high and low boiling hydrocarbons to vaporizing temperatures, thereafter separating the vaporized from the unvaporized hydrocarbons, passing the vaporized hydrocarbons through an elongated externally heated conversion zone of restricted cross section, discharging the unvaporized hydrocarbons without returning the same directly to said conversion zone; heating the vaporized hydrocarbons upon their introduction into said zone and their passage therethrough to a desired conversion temperature, and maintaining such conversion temperature of said vaporized hydrocarbons substantially constant during the remaining passage thereof through said conversion zone by introducing into said hydrocarbons, after the latter have attained said conversion temperature, regulated quantities of a fluid coolant selected from the group consisting of gaseous hydrocarbons, light liquid hydrocarbons, steam, and water.

2,668,792

SUPPRESSING GAS PRODUCTION IN THE VAPOR PHASE CONVERSION OF HYDROCARBONS

William W. Holland, Baltimore, Md., assignor to The Gyro Process Company, Detroit, Mich., a corporation of Michigan

Application November 1, 1948, Serial No. 57,726
2 Claims. (Cl. 196—61)



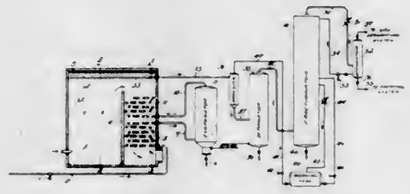
1. A process for the vapor phase conversion of relatively high-boiling hydrocarbons into low-boiling hydrocarbons, the steps which comprise: continuously advancing a stream of vaporized hydrocarbons through an elongated conversion zone of restricted cross section disposed in a heat-confining structure, heating the vapors during their passage through said zone by the passage of hot furnace gases thereover to conversion-producing temperatures, fractionating and condensing the products of such conversion to obtain in a separate state gaseous and liquid hydrocarbon fractions, returning a portion at least of said gaseous fraction to said conversion zone for direct admixture with the hydrocarbon vapors passing therethrough, regulating volumetrically the introduction of the gaseous hydrocarbons into admixture with the hydrocarbon vapors in limited amounts sufficient to maintain the hydrocarbon vapors at substantially uniform conversion temperatures during the travel of the vapors throughout the length of said zone in which conversion temperatures are produced.

2,668,793

APPARATUS FOR VAPOR PHASE CONVERSION OF HYDROCARBONS AT CONSTANT TEMPERATURES

William W. Holland, Baltimore, Md., assignor to The Gyro Process Company, Detroit, Mich., a corporation of Michigan

Application October 23, 1948, Serial No. 56,208
5 Claims. (Cl. 196—116)

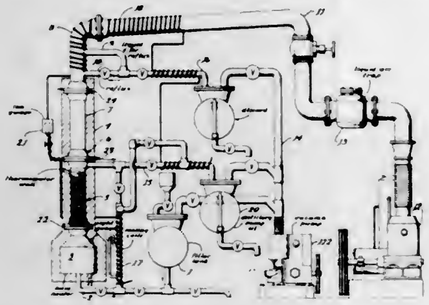


1. A furnace for converting hydrocarbon oils comprising a furnace setting composed of vertical front, back and side walls and horziontal floor and roof walls, said walls providing a heat-confining enclosure, a bridge wall extending vertically and transversely of the setting between said front and back walls and dividing said enclosure internally to form spaced combustion and convection chambers, the bridge wall terminating below and in spaced relation from the roof wall of the setting to provide a space in the upper part of the setting establishing communication between said chambers for the flow of burner gases, a partition wall arranged vertically and longitudinally of said furnace between and in spaced parallel relation with the side walls thereof to form a plurality of independent vertically disposed radiant heat compartments in said combustion chamber, said partition wall extending from the front wall of said setting to said bridge wall and from the floor wall to substantially the roof wall of said setting, burner means situated in the lower part of each of said compartments for maintaining independently regulatable temperatures therein, said convection chamber being provided in the bottom thereof with a waste gas outlet, a pipe coil disposed in said convection chamber for vaporizing oil passed therethrough by heat derived from burner gases discharged from said compartments, an oil conversion coil composed of a plurality of parallel tubular elements arranged in the top of said furnace setting adjacent to said roof wall and in each of said compartments for serial flow of oil vapor therethrough, and means for conducting vaporized oils from the pipe coil in said convection chamber to said conversion coil, the said parallel tubular elements of the conversion coil being independently heated in each compartment to produce a regulatable temperature in the tubes of each compartment independent of that in another compartment.

2,668,794
DISTILLATION SYSTEM FOR RECOVERING SPENT PUMPING OILS

Robert J. Schmidt, Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application May 24, 1946, Serial No. 671,989
3 Claims. (Cl. 202—158)



1. A distillation system for use in recovering spent pumping oils comprising a plurality of column sections including a base heater, a section containing vapor distributing means, an intermediate reduced pressure section comprising a plurality of spaced overlapped tubular orifice forming members providing oil collecting troughs, a fractionating section, and condensing and reflux sections, the entire system being connected with at least one vacuum pump, said system being characterized in that said intermediate reduced pressure section is provided with means for determining the degree of pressure prevailing therein and means for withdrawing the processed oil accumulating in this section.

2,668,795
WHITE BRASS PLATING

Christian J. Wernlund, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 28, 1951, Serial No. 239,190
12 Claims. (Cl. 204—44)

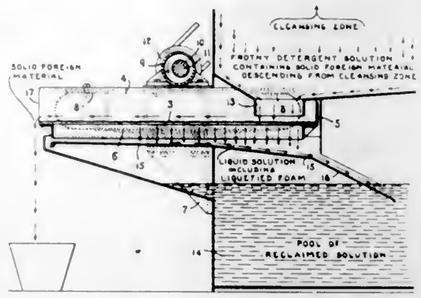
1. The process which comprises electroplating a white brass from an aqueous solution containing the cyanides of zinc and copper and an amount of an alkali-soluble vanadium compound small but sufficient to impart a bright surface to brass deposited from the solution.

2,668,796
METHOD OF RECLAIMING DETERGENT SOLUTIONS

Frederick W. Wehmiller, Ladue, and William J. Nekola, Normandy, Mo., assignors to Barry-Wehmiller Machinery Company, St. Louis, Mo., a corporation of Missouri

Application October 17, 1949, Serial No. 121,808
2 Claims. (Cl. 210—2)

1. The method of reclaiming the liquids held in a bubble-like suspension of a frothy mass in caustic solution, containing paper and other solid materials, which comprises directing all of the liquid, frothy mass of suspended liquid and solid material in a free falling stream, interrupting the solids and frothy mass of the stream while allowing the liquid portions of the stream to pass on in the same direction as the free falling stream, breaking down the interrupted frothy mass to separate the liquid portion from the solids and release the air and other gases entrapped therein and simultaneously progressively displacing the interrupted solids from the free falling stream, collecting below the point of in-



terruption of the solids and frothy mass the liquid portions of the stream, including the separated liquid portion of the frothy mass, and directing the collected liquid into a pool at a relatively low velocity to avoid frothing of the reclaimed solution.

2,668,797
STABLE ANTHRONE

Lawrence R. Jones, Terre Haute, Ind., and Peter C. Markunas, Winston-Salem, N. C.

No Drawing. Application October 20, 1951, Serial No. 252,414
7 Claims. (Cl. 252—408)

1. A glacial acetic acid solution of anthrone and a sulfite-containing compond.

2,668,798
CRACKING CATALYST REACTIVATION

Charles J. Plank, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application December 28, 1951, Serial No. 263,957
7 Claims. (Cl. 252—413)

1. A method for reactivating a siliceous cracking catalyst which has been poisoned by a small contaminating amount, less than about 0.20 percent by weight, of nickel during the conversion of high boiling petroleum hydrocarbons to hydrocarbons boiling in the gasoline range, which comprises contacting said poisoned catalyst with a dilute mineral acid solution, removing the catalyst from contact with said solution, washing excess acid therefrom and subjecting the catalyst to steam treatment at a temperature in the range of about 1000 to about 1300° F. for a period of between about 2 and about 48 hours.

2,668,799
PRODUCTION OF A FLUORESCENT AND IRIDESCENT WRINKLE-FINISH COATING CONTAINING A HYDROUS IRON OXIDE AS PIGMENT

William A. Waldie, Oakwood, Ohio, assignor to New Wrinkle, Inc., Dayton, Ohio, a corporation of Delaware

Application August 1, 1949, Serial No. 107,974
2 Claims. (Cl. 260—22)

2. A wrinkle coating composition which is iridescent upon application and drying to a wrinkle finish, said wrinkle coating composition consisting of a pigment paste dispersed in a drying oil-resin vehicle, said pigment paste consisting of the following constituents in the approximate proportions; 8 pounds hydrous iron oxide, said hydrous iron oxide being prepared by heating hydrous ferric chloride containing six units of water per molecule with sodium sulphate at 70° F. in an aqueous solution and adding sodium carbonate solution slowly during a 15-minute cycle to adjust the pH to 7.2 and washing the resultant precipitated oxide free of sulphate, 16 pounds of a synthetic resin selected from the



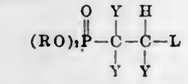
group consisting of China-wood oil modified glyceryl phthalic anhydride resin and drying oil modified phenol-formaldehyde resin, said vehicle consisting of 4 gallons of a resin selected from the group consisting of China-wood oil modified glyceryl phthalic anhydride resin and drying oil modified phenol-formaldehyde resin, cobalt naphthanate 2 oz. and toluol 1 gallon; said pigment paste and vehicle being in the proportionate amounts of approximately 2 to 3 pounds of the pigment paste to 1 to 5 gallons of the drying oil resin vehicle.

2,668,800
PLASTIC COMPOSITION COMPRISING A VINYL HALIDE POLYMER AND A PHOSPHORUS CONTAINING COMPOUND AS A PLASTICIZER THEREFOR

Franklin Johnston, St. Albans, W. Va., assignor to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application September 22, 1951, Serial No. 247,899
13 Claims. (Cl. 260—30.6)

11. A plastic composition comprising a vinyl resin containing a vinyl halide in the polymer and, as a plasticizer therefor, a compound having the formula



wherein R designates a radical selected from the class consisting of the alkyl, aryl, aralkyl, cycloalkyl, alkenyl, alkoxyalkyl, aryloxyalkyl, tetrahydrofurfuryl and beta-halogen-substituted ethyl radicals; L designates a radical of the class consisting of the —COOR′, —$CONH_2$, —CONHR, —$CONR_2$ and —CN radicals wherein R′ designates the radicals represented by R with the exception of the aryl radicals; and each Y designates a radical of the class consisting of hydrogen, the aryl radicals and alkyl radicals, and the group of radicals designated by L and by —$(CH_2)_nL$ wherein n is an integer from 1 to 5, and at least one Y is selected from the last-named group of radicals.

2,668,801
COATING COMPOSITION COMPRISING A VINYL CHLORIDE POLYMER DISPERSED IN A MIXTURE OF PLASTICIZER AND AN ALKYL ETHER OF A MONO- OR DIETHYLENE GLYCOL

Arthur Charles Schultz, Ross Township, Allegheny County, Pa., assignor to Stoner-Mudge, Inc., Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application April 21, 1953, Serial No. 350,220
5 Claims. (Cl. 260—318)

1. A fluid resin dispersion, capable of being spread upon a surface and thereafter fused by heating into a hard, stable, continuous, tough and abrasion-resistant coating, comprising resin, plasticizer and diluent, said resin, plasticizer and diluent consisting of (1) solid thermoplastic polyvinyl resin having an average molecular weight in excess of 45,000 and made from vinyl chloride in major amount, (2) plasticizer for the said resin, and (3) diluent selected from the group consisting of the alkyl ethers of mono and diethylene glycol in which the alkyl radical possesses at least 4 but no more than 10 carbon atoms and having a boiling point above at least 205° C., in which the combined weight of the said plasticizer and diluent is from 33 to 40 per cent of the combined weight of said resin, plasticizer and diluent, and wherein the weight of said diluent is 15 to 85 per cent of the combined weight of said diluent and plasticizer.

2,668,802
POLYMERIC VINYL PHENOL-ALDEHYDE RESINS

Edward Michael Evans and John Edward Seager Whitney, Tonbridge, England, assignors to British Resin Products Limited, London, England, a British company

No Drawing. Application November 16, 1949, Serial No. 127,783
Claims priority, application Great Britain November 24, 1948
9 Claims. (Cl. 260—33.4)

6. A process for the production of a resin which comprises, condensing a polymeric material with an aldehyde selected from the group consisting of formaldehyde and compounds forming formaldehyde under the reaction conditions, acetaldehyde, butyraldehyde and furfuraldehyde, said polymeric material having in its molecular structure polymer units selected from the group consisting of ortho, meta and para vinyl phenol polymer units and their lower nuclear homologue polymers having at least one unsubstituted reactive nuclear hydrogen atom in the nucleus.

2,668,803
MANUFACTURE OF POLYVINYL AROMATIC ACETALS AND PIGMENTS THEREFROM

Louis Amédée Lantz and Arthur Schofield, Manchester, England, assignors to The Calico Printers' Association Limited, Manchester, England, a British company

No Drawing. Application September 18, 1950, Serial No. 185,504
Claims priority, application Great Britain May 13, 1944
14 Claims. (Cl. 260—41)

1. In the manufacture of finely-divided polyvinyl aromatic acetals, the process which comprises mixing under agitating conditions a dilute aqueous polyvinyl alcohol solution, containing dissolved therein from about 1 to 20 per cent of

a polyvinyl alcohol in which at least about 35 per cent of the theoretically possible hydroxyl groups are unsubstituted, with an aromatic aldehyde of the benzene and naphthalene series in the proportions of at least about 0.1 mole of aldehyde to 1 mole of polyvinyl alcohol, causing the aldehyde to condense with the polyvinyl alcohol in an aqueous reaction medium in which the acetal reaction product is so insoluble that it will precipitate as fast as it is formed, in the presence of an acetalizing catalyst and while the aldehyde is in a highly dispersed state, at temperatures above the freezing point of the solution but at least about 20° C. below the softening range of the resulting polyvinyl aromatic acetal, and recovering the finely divided solid polyvinyl aromatic acetal from the reaction mixture.

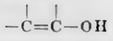
2,668,804

PIGMENTS AND MOLDING POWDERS COMPRISING POLYVINYL ACETAL RESINS DYED WITH AZO DYES

Louis Amédée Lantz, Arthur Schofield, and Ernst Spinner, Manchester, England, assignors to The Calico Printers' Association Limited, Manchester, England, a British company

No Drawing. Application September 20, 1948, Serial No. 50,252
Claims priority, application Great Britain October 8, 1947
16 Claims. (Cl. 260—41)

1. A method for the preparation of pigments and moulding powders, comprising dyeing a finely-divided water-insoluble aromatic polyvinyl acetal containing acetal groups derived from at least one aldehyde of the benzene and naphthalene series free from water-solubilizing groups, by mixing it with an aqueous solution of an alkali metal salt of a coupling component possessing the grouping



and devoid of water-solubilising substituents, until the coupling component has been substantially taken up by the acetal, washing the so-treated polyvinyl acetal to remove unfixed coupling component, mixing it with an aqueous solution of a diazonium salt derived from an aromatic amine having no water-solubilising substituent, until coupling is completed, washing the dyed polyvinyl acetal free from excess diazonium salt, and drying the product, whereby the dyed particles have a brightness which exceeds that of the insoluble dyestuff itself due to the presence of the dyestuff in the pores of the particles and the absence of unfixed dyestuff on the exterior surfaces of the particles.

2,668,805

COMPOSITIONS COMPRISING POLYEPOXIDES AND POLYHYDRIC PHENOL POLYETHER ALCOHOLS HAVING TERMINAL PHENOLIC GROUPS

Sylvan Owen Greenlee, Racine, Wis., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky., a corporation of New York

No Drawing. Application April 10, 1952, Serial No. 281,681
14 Claims. (Cl. 260—42)

1. Polyhydric phenol - epoxide compositions consisting essentially of polyepoxides free from reactive groups other than epoxide and alcoholic hydroxyl groups and polyhydric phenol polyether alcohols having terminal phenolic and intermediate alcoholic hydroxyl groups and being free from reactive groups other than hydroxyl groups.

2,668,806

SUSPENSION POLYMERIZATION PROCESS

Robert N. Haward and Joyce Elly, Trafford Park, Manchester, England, assignors, by mesne assignments, to Styrene Products Limited, London, England

No Drawing. Application December 10, 1951, Serial No. 260,947
Claims priority, application Great Britain December 21, 1950
16 Claims. (Cl. 260—45.5)

1. A process for the suspension polymerisation of styrene which comprises polymerising styrene in aqueous suspension in the presence, as a suspension stabilizer, of suspended, finely divided particles of a substantially neutral calcium oxalate.

2,668,807

EPOXIDE COMPOSITIONS

Sylvan Owen Greenlee, Racine, Wis., assignor to Devoe & Raynolds Company Inc., Louisville, Ky., a corporation of New York

No Drawing. Application April 8, 1952, Serial No. 281,264
16 Claims. (Cl. 260—47)

1. The two step process of making high melting point resins and final infusible products which comprises first reacting a dihydricphenol free from reactive groups other than phenolic hydroxyl groups with an excess of an aliphatic polyepoxide free from reactive groups other than epoxide and alcoholic hydroxyl groups to form a reaction product having terminal epoxide groups and further reacting this product with a further amount of such a dihydricphenol.

2,668,808

PROCESS OF PREPARING GUANIDINE-FORMALDEHYDE CONDENSATION PRODUCTS

Charles A. Robinson, Providence, R. I., assignor to Arnold, Hoffman & Co., Inc., Providence, R. I., a corporation of Rhode Island

No Drawing. Application December 13, 1951, Serial No. 261,608
7 Claims. (Cl. 260—69)

3. A process for producing guanidine-formaldehyde condensation products from a guanidine salt containing ammonia impurities which comprises reacting said salt with a base stronger than guanidine in at least sufficient quantity to convert said salt to free guanidine and said impurities to ammonium hydroxide, and reacting said guanidine with formaldehyde in sufficient excess to both form said condensation product and combine with the ammonium hydroxide in said reaction mixture.

2,668,809

PREPARATION OF HIGH VISCOSITY POLYVINYL ALCOHOL

Harold W. Bryant, Kenmore, N. Y., and William R. Cornthwaite, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 22, 1949, Serial No. 128,926
8 Claims. (Cl. 260—91.3)

1. A process for the production of polyvinyl alcohol which comprises polymerizing vinyl acetate in the presence of a terminally unsaturated mono-olefin containing 12 to 18 carbon atoms the amount of said mono-olefin being equal to 0.01 to 10% of the weight of said vinyl acetate and the amount of any vinyl acetate solvent present during polymerization varying from zero to 30% by weight of the vinyl acetate and saponifying the resulting polyvinyl acetate until at least about 75% of the acetate groups have been converted to hydroxyl.

2,668,810

PROCESS FOR THE SAPONIFICATION OF POLYVINYL ESTERS

Eduard Bergmeister, Wolfgang Gruber, and Joseph Heckmaier, Burghausen, Upper Bavaria, Germany, assignors to Wacker-Chemie G. m. b. H., a corporation

No Drawing. Application April 21, 1952, Serial No. 283,511
Claims priority, application Germany May 17, 1951
3 Claims. (Cl. 260—91.3)

1. The process for saponifying polyvinyl esters finely divided in water which comprises heating same in the presence of a member selected from the group consisting of hydrochloric and sulfuric acids and 0.1–5% of a member selected from the group consisting of perchloric acid and a water-soluble neutral salt thereof.

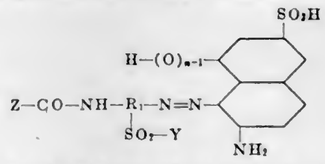
2,668,811

MONOAZO-DYESTUFFS

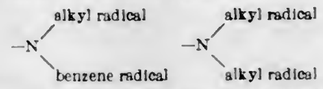
Heinrich Zollinger, Binningen, and Rudolf Ruegg, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application November 2, 1951, Serial No. 254,646
Claims priority, application Switzerland November 7, 1950
14 Claims. (Cl. 260—199)

1. A monoazo-dyestuff which in the form of the free acid corresponds to the formula



wherein n stands for a whole number which is at most 2, Z represents a benzene radical substituted by at least one saturated hydrocarbon group of at least 3 and at most 8 carbon atoms, R_1 represents a benzene radical and Y represents a member selected from the group consisting of a benzene radical and the radicals



and —NH—X, X being a saturated hydrocarbon radical.

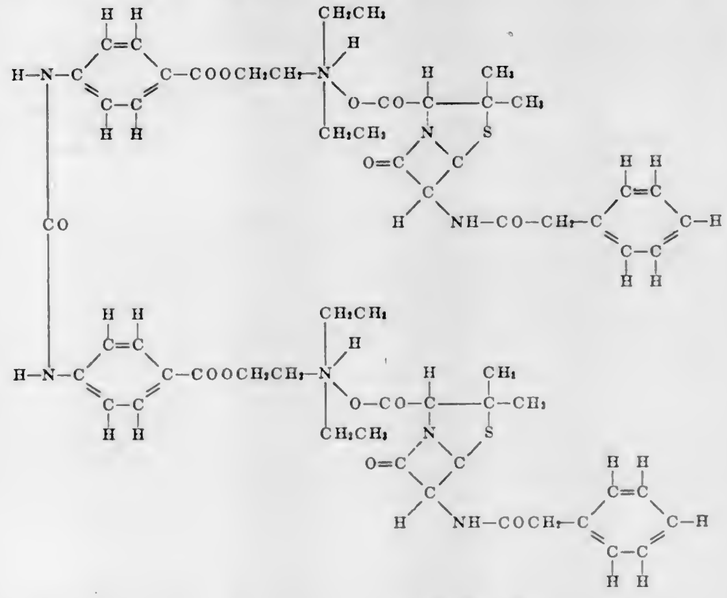
2,668,812

PENICILLIN SALT OF N,N'-BIS-p,p'-CARBODIETHYLAMINOETHOXYPHENYL UREA

Ralph N. Lulek, Rosebank, N. Y., and William M. Ziegler, Clementon, N. J., assignors, by mesne assignments, to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 16, 1951, Serial No. 206,310
1 Claim. (Cl. 260—239.1)

A new chemical compound having the formula:



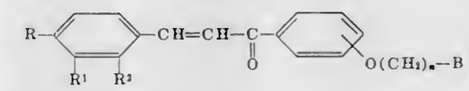
2,668,813

BASIC KETONES AND SALTS THEREOF

Moses Wolf Goldberg, Upper Montclair, and Albert Israel Rachlin, Hackensack, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application July 21, 1952, Serial No. 300,120
10 Claims. (Cl. 260—240)

1. A compound selected from the group consisting of bases having the following formula



and their acid addition salts; wherein R, R^1 and R^2 each represents a member of the group consisting of hydrogen, lower alkoxy, halogen and nitro, n represents an integer from 2 to 3 inclu-

sive, and B represents a radical of the group consisting of di(lower alkyl)amino, 4-morpholinyl and 1-piperidyl.

2,668,814

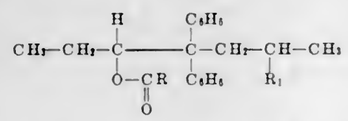
ALKANOIC ACID ESTERS OF AMINO-ALCOHOLS

Robert L. Clark, Woodbridge, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application February 27, 1948, Serial No. 11,831

7 Claims. (Cl. 260—247.2)

1. A heptane of the group consisting of esters having the formula:



wherein R is a member from the group consisting of hydrogen and lower alkyl radicals, and R_1 is a basic radical from the group consisting of dimethylamino and morpholino radicals; and hydrohalide salts thereof.

2,668,815

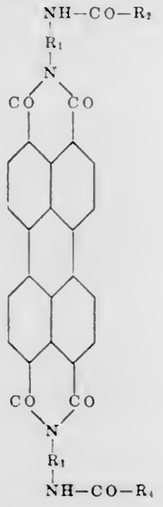
VAT DYESTUFFS OF THE PERYLENE-TETRACARBOXYLIC ACID BIS-ARYL-IMIDE SERIES

Paul Nawiasky, Summit, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application May 24, 1951, Serial No. 228,117

6 Claims. (Cl. 260—272)

1. A vat dye having the following general formula:



wherein R_1 and R_3 represent similar phenylene groups in which the nuclear positions other than the two shown joined to nitrogen are occupied by members of the group consisting of hydrogen, alkyl groups of 1 to 4 carbon atoms, chlorine and bromine and wherein R_2 and R_4 are similar members of the group consisting of hydrogen, alkyl, mononuclear-aryl, -aralkyl, -cycloaliphatic, furyl, pyridyl and anthraquinonyl radicals.

2,668,816

PROCESS FOR THE PREPARATION OF 17,20-HYDROXYKETONES OF THE PREGNANE SERIES AND NEW AND USEFUL COMPOUNDS OF THE SAID SERIES

Karl Miescher, Riehen, and Julius Schmidlin, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application February 5, 1951, Serial No. 209,516

Claims priority, application Switzerland February 10, 1950

8 Claims. (Cl. 260—397.45)

1. A process for the preparation of a 17,20-hydroxy-ketone of the pregnane series, which comprises subjecting a pregnene having the grouping $=CH—CH_2X$ in the 17-position, X representing a member selected from the group consisting of free, esterified and etherified hydroxyl, with osmium tetraoxide and with a member selected from the group consisting of hydrogen peroxide, an alkyl peroxide and a peracid, and isolating the resultant 17,20-hydroxxy-ketone from the reaction mixture.

2,668,817

3,11 ALPHA, 20-TRIACYLOXY-3.17(20)-PREGNADIENES AND PROCESS

Barney J. Magerlein, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application March 1, 1952, Serial No. 274,500

14 Claims. (Cl. 260—397.5)

1. A 3,11α,20-triacyloxy-3,17(20)-pregnadiene wherein AcO is an acyloxy group, Ac being the acyl residue of an unsubstituted alkanoic acid containing from one to eight carbon atoms, inclusive.

2,668,818

S-(ETHYLXANTHOYL) METHANETHIOL-PHOSPHONIC CHLORIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,231

1 Claim. (Cl. 260—455)

S - (ethylxanthoyl) methanethiolphosphonic chloride.

2,668,819

S-(ETHYLXANTHOYL) O-(4-NITROPHENYL) METHANETHIOLPHOSPHONATE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,232

1 Claim. (Cl. 260—455)

S-(ethylxanthoyl) O-(4-nitrophenyl) methanethiolphosphonate.

2,668,820

BIS(ETHYLXANTHOYLTHIOXY)-METHYL-PHOSPHINE OXIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,233

1 Claim. (Cl. 260—455)

Bis(ethylxanthoylthioxy)-methyl - phosphine oxide.

2,668,821

S-(ETHYLXANTHOYL) O-ETHYL METHANE-THIOLPHOSPHONATE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,234

1 Claim. (Cl. 260—455)

S-(ethylxanthoyl) O-ethyl methanethiolphosphonate.

2,668,822

ETHYLXANTHOYLTHIOXY-N,N-DIETHYL-AMINO-METHYL-PHOSPHINE OXIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,235

1 Claim. (Cl. 260—455)

Ethylxanthoylthioxy - N,N - diethylamino - methyl-phosphine oxide.

2,668,823

ETHYLXANTHOYLTHIOXY-CYANO-METHYL-PHOSPHINE OXIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,236

1 Claim. (Cl. 260—455)

Ethylxanthoylthioxy - cyano - methyl - phosphine oxide.

2,668,824

O-(4-NITROPHENYL) S-(ETHYLXANTHOYL) DITHIOPHOSPHORIC CHLORIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,237

1 Claim. (Cl. 260—455)

O-(4-nitrophenyl) S-(ethylxanthoyl) dithiophosphoric chloride.

2,668,825

S-(ETHYLXANTHOYL) N,N-DIETHYLAMIDO-THIOPHOSPHORIC CHLORIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,238

1 Claim. (Cl. 260—455)

S-(ethylxanthoyl) N,N-diethylamidothiophosphoric chloride.

2,668,826

S-(ETHYLXANTHOYL) O,O-DI(2,4,5-TRICHLOROPHENYL) DITHIOPHOSPHATE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,239

1 Claim. (Cl. 260—455)

S-(ethylxanthoyl) O,O-di(2,4,5-trichlorophenyl) dithiophosphate.

2,668,827

S-(ETHYLXANTHOYL) O,O-DI(4-NITRO-PHENYL) DITHIOPHOSPHATE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,240

1 Claim. (Cl. 260—455)

S-(ethylxanthoyl) O,O-di(4-nitrophenyl) dithiophosphate.

2,668,828

S,S-BIS(ETHYLXANTHOYL) O-ETHYL TRITHIOPHOSPHATE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,241

1 Claim. (Cl. 260—455)

S,S-bis(ethylxanthoyl) O-ethyl trithiophosphate.

2,668,829

S-(ETHYLXANTHOYL) O-(4-NITROPHENYL) O-ETHYL DITHIOPHOSPHATE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,242

1 Claim. (Cl. 260—455)

S-(ethylxanthoyl) O-(4-nitrophenyl) O-ethyl dithiophosphate.

2,668,830

S,S-BIS(ETHYLXANTHOYL) O-(4-NITRO-PHENYL) TRITHIOPHOSPHATE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,243

1 Claim. (Cl. 260—455)

S,S-bis(ethylxanthoyl) O-(4-nitrophenyl) trithiophosphate.

2,668,831

O-ETHYL S-(ETHYLXANTHOYL) N,N-DI-ETHYLAMIDOTHIOPHOSPHATE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,244

1 Claim. (Cl. 260—455)

O-ethyl S-(ethylxanthoyl) N,N-diethylamidothiophosphate.

2,668,832

ETHYLXANTHOYLTHIOXY-N,N,N',N'-TETRA-ETHYLDIAMINOPHOSPHINE SULFIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,245

1 Claim. (Cl. 260—455)

Ethylxanthoylthioxy-N,N,N',N' - tetraethyldiaminophosphine sulfide.

2,668,833

ETHYLXANTHOYLTHIOXY-N,N-DIETHYLAMINO-CYANOPHOSPHINE OXIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,246

1 Claim. (Cl. 260—455)

Ethylxanthoylthioxy-N,N-diethylamino-cyanophosphine oxide.

2,668,834

O-(2,4,5-TRICHLOROPHENYL) S-(ETHYLXANTHOYL) DITHIOPHOSPHORIC CHLORIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,247

1 Claim. (Cl. 260—455)

O-(2,4,5-trichlorophenyl) S-(ethylxanthoyl) dithiophosphoric chloride.

2,668,835

TRIS(O-ETHYL DIMETHYLAMIDOPHOSPHORYL) PHOSPHATE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application January 29, 1953, Serial No. 334,071

1 Claim. (Cl. 260—461)

Tris(O-ethyl dimethylamidophosphoryl) phosphate.

2,668,836

BIS(O,O-DIETHYLPHOSPHORIC) DIMETHYLAMIDOPHOSPHORIC DIANHYDRIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application January 29, 1953, Serial No. 334,072

1 Claim. (Cl. 260—461)

Bis(O,O-diethylphosphoric) dimethylamidophosphoric dianhydride.

2,668,837

BIS(O-ETHYL DIMETHYLAMIDOPHOSPHORIC) DIMETHYLAMIDOPHOSPHORIC DIANHYDRIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application January 29, 1953, Serial No. 334,073

1 Claim. (Cl. 260—461)

Bis(O-ethyl dimethylamidophosphoric) dimethylamidophosphoric dianhydride.

2,668,838

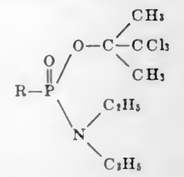
O-(β,β,β-TRICHLOROTERTIARYBUTYL) N,N-DIETHYLAMIDOALKANEPHOSPHONATES

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,221

3 Claims. (Cl. 260—461)

1. An O-(β,β,β-trichlorotertiarybutyl) N,N-diethylamidoalkanephosphonate of the formula



wherein R represents a member of the group consisting of methyl and ethyl.

2,668,839

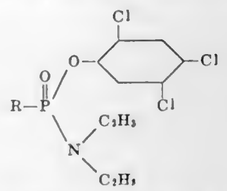
O-(2,4,5-TRICHLOROPHENYL) N,N-DIETHYLAMIDOALKANEPHOSPHONATES

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,222

3 Claims. (Cl. 260—461)

1. An O-(2,4,5-trichlorophenyl) N,N-diethylamidoalkanephosphonate of the formula



wherein R represents a member of the group consisting of methyl and ethyl.

2,668,840

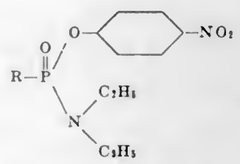
O-(4-NITROPHENYL) N,N-DIETHYLAMIDOALKANEPHOSPHONATES

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,223

3 Claims. (Cl. 260—461)

1. An O-(4-nitrophenyl) N,N-diethylamidoalkanephosphonate of the formula



wherein R represents a member of the group consisting of methyl and ethyl.

2,668,841

O-ETHYL O-(2,4,5-TRICHLOROPHENYL) METHANEPHOSPHONATE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,225

1 Claim. (Cl. 260—461)

O-ethyl O-(2,4,5-trichlorophenyl) methanephosphonate.

2,668,842

O,O-BIS(β,β,β-TRICHLOROTERTIARYBUTYL) METHANEPHOSPHONATE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,226

1 Claim. (Cl. 260—461)

O,O - bis - (β,β,β - trichlorotertiarybutyl) methanephosphonate.

2,668,843

O-(β,β,β - TRICHLOROTERTIARYBUTYL) O-(2,4,5 - TRICHLOROPHENYL) METHANEPHOSPHONATE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,227

1 Claim. (Cl. 260—461)

O-(β,β,β - trichlorotertiarybutyl) O-(2,4,5 - trichlorophenyl) methanephosphonate.

2,668,844

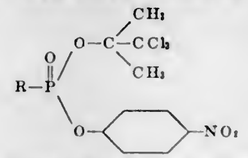
O-(β,β,β - TRICHLOROTERTIARYBUTYL) O-(4 - NITROPHENYL) ALKANEPHOSPHONATES

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,228

3 Claims. (Cl. 260—461)

1. An O-(β,β,β-trichlorotertiarybutyl) O-(4-nitrophenyl) alkanephosphonate of the formula



wherein R represents a member of the group consisting of methyl and ethyl.

2,668,845

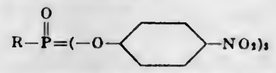
O,O-BIS(4-NITROPHENYL) ALKANEPHOSPHONATES

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,229

3 Claims. (Cl. 260—461)

1. An O,O - bis(4 - nitrophenyl) alkanephosphonate of the formula



wherein R represents a member of the group consisting of methyl and ethyl.

2,668,846

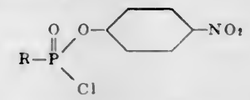
O-(4-NITROPHENYL) ALKANEPHOSPHONIC CHLORIDES

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,230

3 Claims. (Cl. 260—461)

1. O-(4-nitrophenyl) alkanephosphonic chloride of the formula



wherein R represents a member of the group consisting of methyl and ethyl.

2,668,847

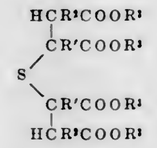
THIOESTERS AND PROCESS

Lawrence W. Newton, South Charleston, W. Va., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application January 28, 1948, Serial No. 4,952

12 Claims. (Cl. 260—481)

1. An ester of a thiopolycarboxylic acid having a structure represented by the formula



wherein R′ is a radical selected from the class consisting of hydrogen, the lower alkyl groups and the —CH_2COOR^3 groups; R^2 is a radical selected from the class consisting of hydrogen, the lower alkyl groups and the —CH_2COOR^3 groups, but wherein R′ and R^2 do not concurrently designate a radical having a —$COOR^3$ component; and each R^3 is a radical selected from the class consisting of the alkyl, aralkyl, alkoxyalkyl, aryloxyalkyl, halogenated alkyl, cycloalkyl, alkoxyethoxyethyl, aryloxyethoxyethyl and alkenyl radicals.

2,668,848

ESTER-TYPE SYNTHETIC LUBRICANTS

Martin B. Neuworth, Brentwood, Pa., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application October 7, 1949, Serial No. 120,225

12 Claims. (Cl. 260—485)

1. The non-resinous reaction product obtained by reacting an adipic acid monoester having the formula, $ROOC(CH_2)_4COOH$, wherein R is a branched-chain aliphatic radical containing between about 6 and about 20 carbon atoms, with a glycol reactant selected from the group consisting of an ethylene glycol having the formula, $H(OCH_2CH_2)_nOH$, wherein n is an integer varying between one and six, and thiodiglycol, in a molar proportion of about 2:1, respectively.

2,668,849

WITHDRAWN

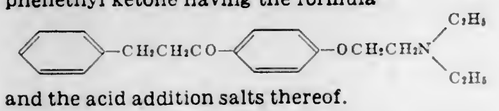
2,668,850

PHENYL-PHENETHYL KETONES

Moses Wolf Goldberg, Upper Montclair, and Albert Israel Rachlin, Hackensack, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application April 24, 1952, Serial No. 284,211
6 Claims. (Cl. 260—501)

1. A compound selected from the group consisting of p - (β - diethylaminoethoxy) phenyl-phenethyl ketone having the formula



and the acid addition salts thereof.

2,668,851

SURFACE ACTIVE AGENTS

Kendrick R. Eilar, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware

No Drawing. Application August 8, 1952, Serial No. 303,433
6 Claims. (Cl. 260—513)

1. Compounds having the following formula:



in which R is a fatty alkyl group containing from 8–22 carbon atoms, R′ is selected from the group consisting of hydrogen and $C(R'')_2SO_3M$, in which R″ is selected from the group consisting of hydrogen and lower alkyl groups, M is selected from the group consisting of alkali metal and ammonium, n is from 2 to 6 and m is from 1 to 6, with the proviso that at least one of the groups R′ is $C(R'')_2SO_3M$.

2,668,852

NEUTRAL CALCIUM 4-AMINOSALICYLATE HEMIHYDRATE AND PREPARATION OF THE SAME

Alan P. Bentz, Bound Brook, Byron L. West, Plainfield, and Richard J. Turner, Fanwood, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application December 2, 1952, Serial No. 323,712
3 Claims. (Cl. 260—519)

1. A process for the manufacture of neutral calcium 4-aminosalicylate hemihydrate which comprises mixing with agitation at 45–50° C. a concentrated solution of one mol calcium chloride having a pH between 6.0 and 6.5 and a saturated solution of about two mols sodium 4-aminosalicylate, maintaining the reaction mixture at 45–50° C. until reaction is complete, and separating the neutral calcium 4-aminosalicylate hemihydrate.

2,668,853

PRODUCTION OF THIOPHOSGENE

Edward F. Orwoll, Medina, N. Y., assignor to Sharples Chemicals Inc., a corporation of Delaware

No Drawing. Application October 12, 1950, Serial No. 189,901
18 Claims. (Cl. 260—543)

1. A process for the production of thiophosgene, which comprises mixing in the presence of a Friedel-Crafts catalyst trichloromethanesulfenyl chloride with an aromatic compound having ring-attached hydrogen substitutible by chlorine, and while maintaining the reaction mass between 75° C. and 250° C. recovering thiophosgene therefrom in the vapor phase.

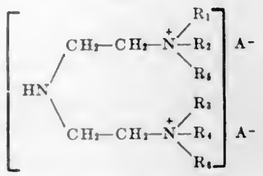
2,668,854

AZAPENTYLENE-DIAMMONIUM COMPOUNDS

Karl Miescher, Riehen, and Adrian Marxer, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application December 9, 1952, Serial No. 325,023
Claims priority, application Switzerland January 29, 1952
4 Claims. (Cl. 260—567.6)

1. A member selected from the group consisting of a secondary 3-aza-pentylene-(1:5)-ditrialkylammonium compound of the formula



wherein R_1–R_6 represent alkyl radicals with 1–3 carbon atoms and A^- stands for a non-toxic anion, and a therapeutically applicable acid addition salt thereof.

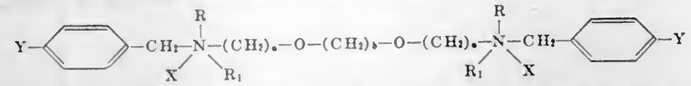
2,668,855

ALKYLENE-BIS(OXYALKYLENE-AMMONIUM) COMPOUNDS

Moses Wolf Goldberg, Upper Montclair, and Lester Mischa Jampolsky, Clifton, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application December 20, 1952, Serial No. 327,162
5 Claims. (Cl. 260—567.6)

1. Bis-quaternary ammonium compounds represented by the formula



wherein R and R_1 represent lower alkyl radicals; X represents a halogen; Y represents a member of the group consisting of nitro and chloro radicals; a represents an integer from 2 to 3; and b represents an integer from 2 to 4.

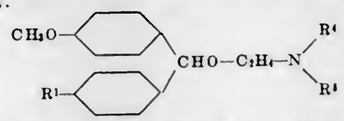
2,668,856

P-METHOXY BENZHYDRYL ETHERS

Henri Morren, Forest-Brussels, Belgium, assignor to Union Chimique Belge, S. A., Brussels, Belgium, a corporation of Belgium

No Drawing. Application August 5, 1948, Serial No. 42,748
4 Claims. (Cl. 260—570)

1. A compound of the class consisting of a free base and its acid salts, said free base having the formula:



wherein R^1 is selected from the group of radicals consisting of hydrogen, methyl and methoxy radicals, and R^4 and R^5 are selected from the group of aliphatic radicals consisting of methyl and ethyl radicals, and when the R^1 radical contains a carbon atom then R^4 and R^5 are only methyl radicals.

2,668,857

PROCESS FOR THE PREPARATION OF β - DIMETHYL - AMINOETHYL - BENZHYDRYL ETHER

Haaye Veldstra and Antony Marie Akkerman, Amsterdam, Netherlands, assignors to N. V. Amsterdamsche Chininefabriek, Amsterdam, Netherlands, a company of the Netherlands

No Drawing. Application November 13, 1951, Serial No. 256,146
9 Claims. (Cl. 260—570)

7. A method of preparing beta-dimethylamino-ethyl-benzhydryl ether, comprising the steps of melting a salt selected from the group consisting of the hydrochloride and hydrobromide of beta - dimethylamino - ethanol, maintaining said salt at a temperature of 180° C. to 185° C., gradually adding benzhydrol to the melted salt until one-half to one mole of benzhydrol has been added for each mole of beta-dimethylamino-ethanol, stirring the mixture for at least twenty minutes while maintaining said temperature, and then recovering the beta-dimethylamino-ethyl-benzhydryl ether therefrom.

2,668,858

HYDRINDENEDIONE DERIVATIVES AND PROCESS FOR THEIR PREPARATION

Karl Miescher, Riehen, and Peter Wieland, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application May 14, 1951, Serial No. 226,276
Claims priority, application Switzerland May 17, 1950
4 Claims. (Cl. 260—586)

1. A process for the manufacture of a hydrindenedione derivative, which comprises reacting formaldehyde simultaneously with an open-chain keto compound having a carbonyl group in β-position and with methyl-cyclopentane-2,5-dione in the presence of a condensing agent.

4. Δ^7-3,6-diketo-9-methyl-hexahydrindene.

2,668,859

PROCESS FOR THE PRODUCTION OF PHENOL AND ACETONE

Igor Scriabine, Lyon, France, assignor to Societe des Usines Chimiques Rhone Poulenc, Paris, France

No Drawing. Application January 2, 1952, Serial No. 264,679
Claims priority, application France January 10, 1951
10 Claims. (Cl. 260—593)

1. A process for the simultaneous preparation of phenol and acetone by fission of cumene hydroperoxide which comprises heating cumene hydroperoxide under substantially anhydrous conditions in the presence of a catalyst which is a solid element of one of the sub-groups b of groups V and VI of the periodic table of the elements.

2,668,860

PROCESS FOR PREPARING ARYLOXYMETHYL HALIDES

Harry James Barber, Gidea Park, England, assignor to May & Baker Limited, Dagenham, England

No Drawing. Application August 29, 1949, Serial No. 113,030
10 Claims. (Cl. 260—612)

1. A process for producing aryloxymethyl halide which comprises reacting a member of the class consisting of aryloxymethane sulphonic acids and their salts with a member of the class consisting of phosphorus pentachloride, pentabromide, oxychloride and oxybromide and thionyl chloride and bromide.

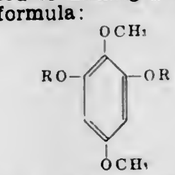
2,668,861

METHOD FOR THE PREPARATION OF DIMETHOXYRESORCINOL

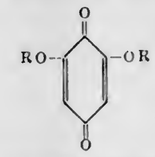
Theodore A. Geissman, Los Angeles, Calif.

No Drawing. Application July 30, 1951, Serial No. 239,377
6 Claims. (Cl. 260—613)

1. The method of making a compound having the following formula:



in which R is a reversibly etherifying group, which comprises reacting a quinone, of the structure:



in which R is a reversibly etherifying group, with a lower alkanoic acid anhydride in the presence of a reducing agent and treating the resulting product with a methyl derivative of a strong inorganic acid in the presence of alkali.

2,668,862

PROCESS FOR ACETAL PREPARATION

Walter E. Price, Jr., Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application June 27, 1950, Serial No. 170,685
8 Claims. (Cl. 260—615)

1. A process for the preparation and isolation of a difficultly preparable high molecular weight acetal having at least twelve carbon atoms which comprises reacting one mole of an aldehyde having at least four carbon atoms with two moles of an alcohol having at least four carbon atoms in the presence of an acidic acetalization catalyst, adsorbing the water of reaction with an anhydrous salt, at approximately room temperature

but no higher than 100° F. for a time sufficient for the acetalization to proceed to substantial completion; thereafter adding a volume of aqueous C_2–C_3 saturated aliphatic monohydric alcohol approximately equal to the volume of the reaction mixture, said alcohol containing from 5 to 20% water, settling the resulting mixture to form a bottom acetal layer, and removing the acetal bottom layer so formed.

2,668,863
PURIFICATION OF ALCOHOLS
William R. Norris, Clark Township, Union County, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application January 11, 1952, Serial No. 266,100
7 Claims. (Cl. 260—643)

1. In the purification of a C_3–C_4 alcohol prepared by a hydration of the corresponding olefin, and wherein a purified aqueous alcohol is obtained on distillation which is subsequently subjected to a dehydration treatment with an aqueous caustic alkali selected from the group consisting of sodium hydroxide and potassium hydroxide which results in the obtaining of an aqueous layer and a hazy, dehydrated alcohol layer containing no more than about 5 volume per cent water, the improvement which comprises adding to the alkali treated alcohol a small quantity of glacial acetic acid in an amount sufficient to approximately neutralize the alkali treated alcohol whereby a clear further purified alcohol is obtained.

2,668,864
PROCESS OF MAKING PERFLUORO OLEFINS
Lyle J. Hals, St. Paul, Thomas S. Reid, New Canada Township, Ramsey County, and George H. Smith, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application November 26, 1951, Serial No. 258,306
6 Claims. (Cl. 260—653)

6. A dry-reaction process of making perfluoro monoolefins from alkali-metal salts of perfluoroalkyl monocarboxylic acids having from three to ten carbon atoms in the molecule, which comprises heating the salt, in an anhydrous state and in the absence of hydroxyl compounds, at a decomposition temperature of the order of 200 to 350° C. at which controlled decomposition occurs and until a high yield of perfluoro olefin product is obtained, and recovering the latter.

2,668,865
ALKYLATION OF ISOPARAFFINS WITH NAPHTHENES
Abraham Schneider, Philadelphia, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
No Drawing. Application February 28, 1950, Serial No. 146,925
13 Claims. (Cl. 260—666)

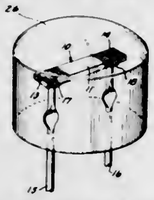
1. Process for the preparation of a polyalkyl cyclohexane which comprises reacting in liquid phase an alkyl substituted cyclopentane with an isoparaffin having from 4 to 6 carbon atoms and at least one tertiary hydrogen atom per molecule by bringing together, in contact with an admixture of said cyclopentane and said isoparaffin, hydrogen fluoride and an olefin, whereby reaction between said cyclopentane and said isoparaffin occurs to form a polyalkyl cyclohexane having the same number of carbon atoms as the sum of the carbon atoms of said cyclopentane and said isoparaffin and whereby said olefin is converted to a paraffin having the same number of carbon atoms as said olefin, and separating said polyalkyl cyclohexane from the reaction mixture.

2,668,866
ISOMERIZATION OF PARAFFIN WAX
George M. Good, Albany, and John W. Gibson and Bernard S. Greensfelder, Oakland, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware
No Drawing. Application August 14, 1951, Serial No. 241,898
5 Claims. (Cl. 260—683.5)

1. The process for the isomerization of paraffin wax which comprises vaporizing a normally solid paraffin wax and contacting the wax completely in the vapor phase with at least one mole of hydrogen per mole of said wax with a supported platinum catalyst at a temperature between about 300° C. and about 550° C.

ELECTRICAL

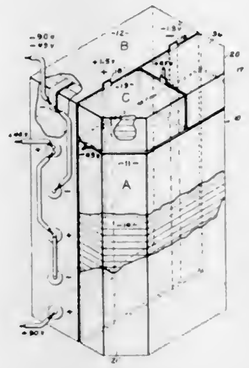
2,668,867
PHOTOCELL CONSTRUCTION
Charles Ekstein, Brooklyn, N. Y., assignor to Vitro Corporation of America, New York, N. Y., a corporation of Delaware
Application March 21, 1952, Serial No. 277,807
9 Claims. (Cl. 136—89)



1. In a cell construction of the character indicated, an elongated crystalline element electrically responsive to radiation, electric-contact portions at longitudinally spaced locations on one surface of said element, relatively rigid terminal members each including an enlarged supporting head at one end thereof, said heads being rigidly secured to said element at different of said electric-contact portions and in electrically conducting relation therewith, and a body of plastic material transparent to radiation and completely encasing said element and parts of said terminal members near said ends thereof, each said terminal member including a locally weakened mechanical-shock-resistant portion spaced from said contact portions and encased by said plastic material.

2,668,868
FLAT DRY CELL BATTERY PACK
Clifford G. Nelson, Stoughton, Wis., assignor to Ray-O-Vac Company, Madison, Wis., a corporation of Wisconsin
Application September 5, 1951, Serial No. 245,165
6 Claims. (Cl. 136—111)

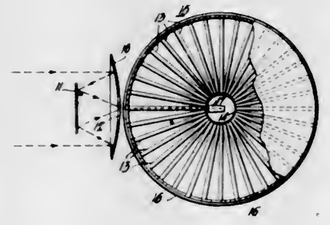
1. In a dry cell battery pack; an outer casing having electrical outlets; a plurality of battery units within said casing having terminals electrically connected to said outlets; said units being insulated each from the other, one of said units comprising an A battery unit and another of said units comprising a B battery unit, said A battery unit comprising a plurality of flat dry cells arranged in stacked relation and connected in parallel or series-parallel, each cell comprising a flat metallic mono-lobe having a projecting tab forming an anode, a second mono-lobe of flat electrically conductive material forming a cathode having a projecting tab, an electrolyte-carrier in contact with said anode, a flat depolarizing mix cake between said electrolyte-carrier and said cathode, a sheath of plastic dielectric insulating material enclosing each of said cells while permitting said tabs to project from said sheath, a common electrical connector for said anode tabs, a common electrical connector for



said cathode tabs, and binding means about said cells holding them in stacked relationship; said B battery unit comprising a plurality of flat cells, each cell including an electrolyte cell element with an anode and a cathode and an integral electrical connector connecting an anode of one cell to a cathode of an adjacent cell, arranged in a common sheath of flexible electrolyte-resisting dielectric material, said sheath being applied to said plurality of cells to form separate compartments within which said cells are individually enclosed, whereby said sheath prevents the escape of electrolyte from one cell to another while electrical contact between cells is obtained through said electrical connectors, said B battery cells being stacked with their flat surfaces adjacent each other by folding the sheath between adjacent cells to produce a zig-zag form and having binding means surrounding the stacked cells to hold them in desired proximity.

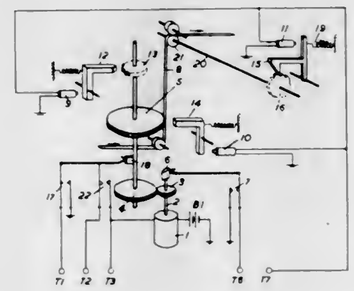
2,668,869
RADIO VIEWING SYSTEM
Harley A. Iams, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 26, 1945, Serial No. 579,871
8 Claims. (Cl. 178—6.8)

8. In combination, means for imaging radio waves from a scene to be viewed whereby a radio wave image is formed, and a radio wave optical device comprising an assembly of radio wave guides having one end thereof located substantially in the plane of said radio wave image whereby said image is transferred to the other end of said device, each end of said device being a surface of predetermined geometric shape, the



ends of each wave guide terminating on said surfaces.

2,668,870
PRINTING TELEGRAPH RECEIVER
Desmond Sydney Ridler, Aldwych, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application August 14, 1951, Serial No. 241,727
Claims priority, application Great Britain August 21, 1950
5 Claims. (Cl. 178—34)



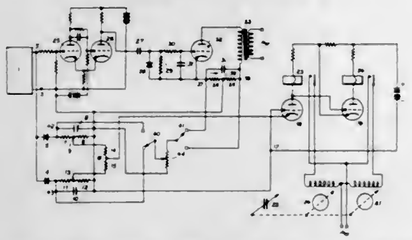
1. Printing telegraph receiver comprising register means having a normal condition, means for altering the condition of said register means in response to the elements of a received code combination, a rotatable typewheel having type characters spacedly positioned therearound, means coupled to said register means for setting said typewheel in rotation from a given angular position in response to the last element of said received code combination, means under control of said typewheel for producing a counting signal for each character position through which said typewheel is rotated, means for applying said signals to said register means to change said register means from its altered condition to its normal condition, the number of counting signals required to change said register means to its normal condition being equal to the character positions through which said typewheel is required to be rotated to arrive at the angular position of the type character corresponding to said received code combination, printing means under control of said register means operable upon the change of said register means from its altered to its normal position, and means under control of said typewheel to return said typewheel to its given angular position.

2,668,871

DEVICE FOR AUTOMATIC FREQUENCY CONTROL, MORE PARTICULARLY FOR THE RECEPTION OF CARRIER SHIFT SIGNALS

André Violet and Marcel Cornilleau, Boulogne-Billancourt, France, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application May 25, 1951, Serial No. 228,204
4 Claims. (Cl. 178—66)



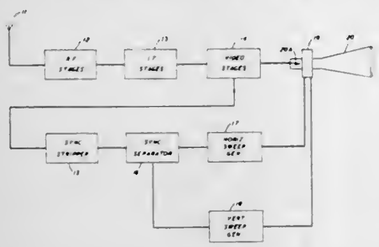
1. In a frequency shift signal system wherein intelligence is transmitted by alternate pulses of two different frequencies lying on opposite sides of a central frequency, and having a receiver comprising, a regulating circuit for deriving voltages of opposite polarity in response to receipt of said respective frequencies, a local oscillator coupled to the output of said regulating circuit and tunable in opposite directions toward said central frequency in response to the sum of said voltages, a circuit for correcting the tuning of said oscillator for departures from said central frequency due to predominance of one of said frequencies comprising means having an output circuit coupled to said regulating circuit and responsive to receipt of continued pulses of said one frequency for producing an output voltage of a predetermined magnitude, and means for applying said output voltage to said regulating circuit in opposed polarity to said derived voltage produced by said one frequency.

2,668,872

VERTICAL SYNCHRONIZING SYSTEM

Charles W. Harrison, Gillette, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 10, 1951, Serial No. 241,241
5 Claims. (Cl. 178—69.5)



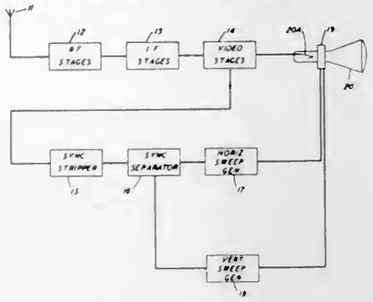
1. A synchronizing separator system comprising an input source of composite synchronizing signals including a first series of pulses of a first recurrent frequency and a second series of longer serrated pulses of a lower recurrent frequency, low-pass filter means supplied with said composite signal having an upper cut-off frequency below said first recurrent frequency and above said second recurrent frequency for providing a first output, means also supplied with said composite synchronizing signal responsive to leading edges of the pulses of said composite signal for providing a second output, means for combining said first and second outputs into a combined output, means for clipping said combined output at a level greater than the maximum amplitude level of either said first or second outputs, and means for utilizing the output of said clipping means.

2,668,873

VERTICAL SYNCHRONIZING SYSTEM

Robert E. Graham, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 10, 1951, Serial No. 241,242
3 Claims. (Cl. 178—69.5)



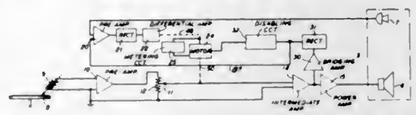
1. A synchronizing separator for deriving vertical synchronizing signals in a television receiver comprising an input source of a composite synchronizing signal including a first series of pulses recurrent at the television line frequency and a second series of longer serrated pulses recurrent at the television field frequency, low-pass filter means supplied with said composite synchronizing signal having an upper cut-off frequency below said line frequency and above said field frequency for providing a filtered output, adding means supplied with said filtered output and said composite synchronizing signal for providing a combined output, and clipping means supplied with said combined output for deriving a signal characteristic of the second series of pulses.

2,668,874

AUTOMATIC VOLUME CONTROL

Herbert W. Augustadt, Westfield, and Walter F. Kannenberg, Gillette, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application January 10, 1950, Serial No. 137,732
7 Claims. (Cl. 179—1)



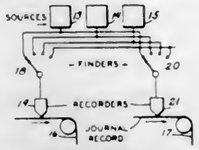
1. An electrical program reproducing system comprising means for controlling the system gain responsively to the noise level preceding the program and means for disabling the controlling means during program reproduction, said system gain controlling means including a source of unidirectional voltage varying in magnitude with noise level, means responsive to a critical value of said voltage to increase the system gain, a normally released delay-operate relay also responsive to said critical voltage value, whereby said relay operates to disable said gain controlling means a predetermined time after the commencement of a gain increasing operation of said controlling means during any one interval of no program, said relay being subsequently released by operation of said means for disabling the controlling means during program reproduction, and means for controlling the duration of said predetermined time.

2,668,875

DATA RECORDING SYSTEM

Judson O'D. Shepherd, Atlanta, Ga.

Original application July 19, 1944, Serial No. 545,651. Divided and this application June 8, 1948, Serial No. 31,810
19 Claims. (Cl. 179—7.1)



1. A data recording system including a record medium, recording means operatively associated with said record medium to record on said record medium data relating to a series of transactions, each of which transactions comprising a plurality of time spaced data entries, and means operatively connected to said recording means to detect the completion of all entries of a series of transactions and to actuate said recording means thereby to produce an indication on said record medium of the termination of that series of transactions subsequent to the completion of all entries of that series.

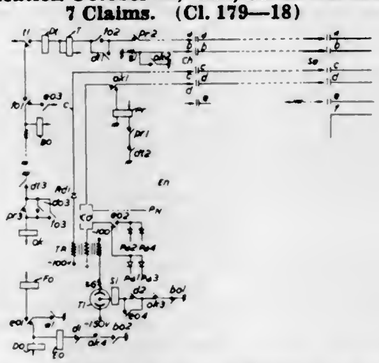
18. In a data recording system, a record medium, a recorder for said medium, means operatively connected to said recorder to actuate said recorder to make a record on said medium of data comprising combinations of predetermined frequencies in accordance with a code, and means operatively connected to said recorder to actuate said recorder to make a record of a predetermined frequency with each data recordation, with latter said frequency being higher than any of the aforesaid frequencies.

2,668,876

DOUBLE-SELECTION ELECTRONIC SWITCHING SYSTEM

Fernand P. Gohorel, Antony, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application October 14, 1950, Serial No. 190,119
7 Claims. (Cl. 179—18)



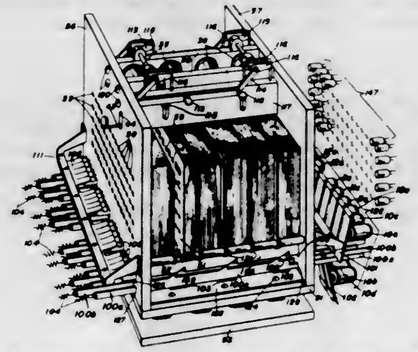
1. An automatic telephone system comprising a plurality of primary selector switches, a plurality of secondary selector switches, each of said primary selector switches having access to said secondary selector switches, means for preparing a primary selector switch for connection to a selected secondary selector switch, means controlled by said primary-selector-switch-preparing means for preparing said selected secondary selector switch for connection to a selected outlet thereof, and means controlled by said secondary-selector-switch-preparing means for making effective the prepared connection of said primary selector switch only after the connection of said secondary selector switch has been prepared.

2,668,877

ELECTROMECHANICAL TRANSLATOR

Edgar W. Gent, Morristown, N. J., and Oscar Myers, Mount Vernon, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 4, 1947, Serial No. 784,024
28 Claims. (Cl. 179—18)



1. A translating device comprising a plurality of perforated record cards, means for holding said cards in horizontal stacked relationship, each of said cards having a plurality of extensions along the bottom edge thereof, said extensions being grouped in a distinctive arrangement for each card, a plurality of supporting bars extending beneath said stacked cards providing means of support on which extensions of said cards rest, supporting means for said supporting bars which permit said bars to be individually lowered when operated upon, restraining means which normally hold said supporting bars in their uppermost positions, an input register comprising a plurality of electromagnets adapted to lower individual supporting bars when said electromagnets are energized, whereby upon energization of a distinctive group of said electromagnets in accordance with an input code selected cards may be lowered in translation from said stack, a source of energy directed against said cards and transmissible through perforations of said selected cards in translation, and an output register comprising a plurality of elements responsive to said energy to effect an output registration corresponding to the perforations of said selected cards.

2,668,878

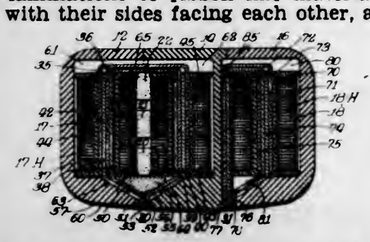
TRANSDUCER

David J. Munroe, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware

Application July 29, 1950, Serial No. 176,575
5 Claims. (Cl. 179—100.2)

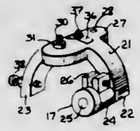
1. A magnetic transducer for use with a longitudinally movable record medium, comprising a

two-part housing of insulating material having a wall, said wall having an opening at the junction of the two parts of the housing, a laminated magnetic core structure positioned within said housing and including a plurality of generally U-shaped laminations of ribbon like material arranged with their sides facing each other, and a



plurality of other ribbon like laminations similarly arranged and engaged with at least one set of said U-shaped laminations and extending therebeyond, certain of said laminations terminating in generally parallel, closely spaced pole piece defining portions which extend through the opening in and are secured to said wall.

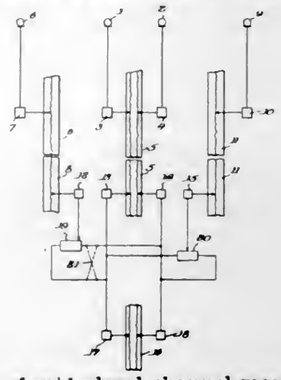
2,668,879
MAGNETIC SOUND PICKUP RECORDER HEAD AND SUPPORT THEREFOR
Ellis Wellington D'Arcy, Chicago, Ill., assignor to De Vry Corporation, Chicago, Ill., a corporation of Illinois
Application July 1, 1952, Serial No. 296,658
8 Claims. (Cl. 179—100.2)



1. The combination with a sound drum, a shaft therefor, a bearing for the shaft, and a film passing over said sound drum and having on one longitudinal edge a track of paramagnetic material, of a yoke having oppositely disposed arms positioned on opposite corresponding sides of said bearing adjacent said drum, a magnetic head carried by one of said arms with one surface thereof in confronting relation with respect to the track, means for connecting the yoke to the bearing, and means for universally adjusting the yoke relative to said point of connection with said bearing.

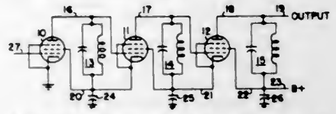
2,668,880
APPARATUS FOR STEREOPHONIC SOUND-RECORDING
Hans Friess, Karlsruhe-Daxlanden (Baden), Germany, assignor to Klangfilm Gesellschaft mit Beschraenkter Haftung, Berlin, Germany, a corporation of Germany
Application May 25, 1951, Serial No. 228,193
Claims priority, application Germany May 26, 1950
14 Claims. (Cl. 179—100.3)

1. Apparatus for producing stereophonic sound-recordings, comprising first carrier means, plural-channel means for recording predetermined production phases on at least two sound tracks of said first carrier means, separate second and third carrier means, single-channel means for recording predetermined other production phases each respectively on a single track of said second and third carrier means, branch-channel means for each of said single-channel recordings, and means for mixing the recordings of the branch-channel means with the



recordings of said plural-channel means to produce a final record having at least two sound tracks.

2,668,881
MAXIMUM GAIN-BANDWIDTH AMPLIFIER SYSTEM
Edward L. Crosby, Jr., Baltimore, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Application December 27, 1949, Serial No. 135,275
5 Claims. (Cl. 179—171)

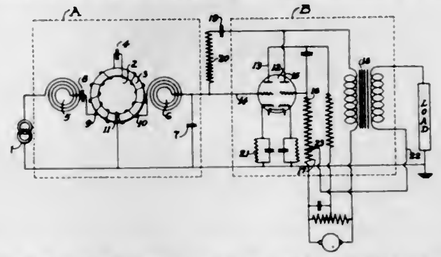


1. An amplifier comprising three or more cascaded stages, each of said stages comprising a pentode tube having a tuned circuit associated therewith, means applying signal voltage between the control grid and cathode of the first of said stages, said cathode being grounded. means providing a direct connection between the anode of each of said stages and one terminal of the tuned circuit associated therewith and a direct connection between the screen grid of said stage and the other terminal of said tuned circuit, means in each of said stages except the final stage providing a direct connection between said one terminal of said tuned circuit and the control electrode of the next succeeding stage and a direct connection between the said other terminal of said tuned circuit and the cathode of the next succeeding stage, a condenser connected between said other terminal of each of said tuned circuits and a common ground plane, said condenser having a capacity of such value as to present a low impedance to the passage of currents of signal frequency therethrough, and means applying a direct current potential between said other terminal of the one of said tuned circuits associated with said final stage and said ground plane.

2,668,882
AMPLIFIER
Montford Morrison, Upper Montclair, N. J.
Original application April 26, 1949, Serial No. 89,605, now Patent No. 2,623,944, dated December 30, 1952. Divided and this application March 31, 1950, Serial No. 153,239
3 Claims. (Cl. 179—171)

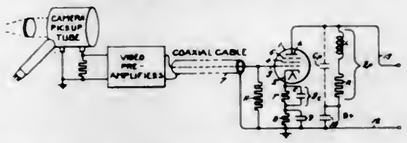
1. In a two stage electric-wave narrow-band signal-amplifying system having a first stage in-

cluding a first set of vacuum tube input and output amplifying elements and a tuned signal circuit having attenuation loss connected to said input elements, a second set of vacuum tube input and output amplifying elements, said second set of input elements having a bridging resistor across the control grid and the cathode thereof, said first output elements being connected to said second input elements, said second output elements being connected to the primary wind-



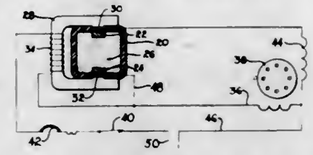
ing of a transformer having an isolated secondary winding having a load included in the circuit thereof, said second set of output elements having a positive feed-back circuit to said first set of input elements, the impedance of said feed-back circuit being sufficient to prevent self-oscillation in said tuned signal circuit, and said isolated secondary winding having a positive feed-back circuit to an intermediate tap of said bridging resistor.

2,668,883
AMPLIFIER FOR ATTENUATING THE HIGHER FREQUENCY COMPONENTS OF SIGNALS
Winslow L. Hurford, North Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application June 10, 1950, Serial No. 167,441
7 Claims. (Cl. 179—171)



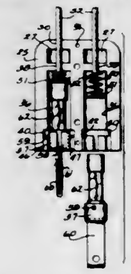
1. An amplifier comprising an electron discharge device having an anode, a grid, and a cathode, an impedance comprising a parallel combination of resistance and capacitance connected between said cathode and a point of reference potential, an input circuit connected between said grid and cathode through said impedance, means for biasing said grid with respect to said cathode, another impedance including an inductance and resistance in series and having one end thereof connected to said anode, a source of direct voltage having its negative terminal connected to said point of reference potential and its positive terminal connected to said other end of said series combination, said second resistance and inductance have such values with respect to the capacitance between said anode and said point of reference potential and with respect to said first resistance and first capacitance that when a signal voltage having a range of frequencies is applied to said input circuit the voltage between said anode and said point of reference potential increases with increase in frequency over said range and the phase of said latter voltage with respect to the phase of said signal voltage is substantially constant throughout said range.

2,668,884
ELECTRICAL SWITCH APPARATUS
James W. Jacobs, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application November 21, 1951, Serial No. 257,519
4 Claims. (Cl. 200—88)



1. A switch including a sealed enclosure provided with two spaced electrical terminals, at least one of said terminals being of a permanent magnetic material and being located above the other, said sealed enclosure containing a sufficient quantity of magnetized particles having a low Curie point to bridge the gap between the terminals when the particles are below the Curie point temperature, said terminals having a sufficiently limited exposed area and being spaced sufficiently far apart and said quantity of particles being so limited that an excessive current flow through the particles across the gap will heat the particles above their Curie point to demagnetize the particles to break the bridge.

2,668,885
FUSED PLUG AND MULTIPLE TAP FOR ELECTRICAL CORDS
Matthew E. Gerlat, Milwaukee, Wis.
Application November 22, 1950, Serial No. 197,061
13 Claims. (Cl. 200—115.5)

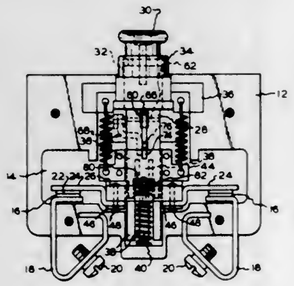


1. In a connector for attaching electrical conductors to an electrical receptacle and for removably receiving the individual fuses for the conductors, a plurality of electrical insulating body parts adapted to be joined for coacting in defining a plurality of chambers therein and severally open from one end of the body for severally receiving the fuses, and prongs severally insertable into the body for several electrical connection thereof with the fuses and removable from the body through the open ends of the chambers after the body parts are joined, the prongs being adapted to enter the electrical receptacle.

2,668,886
CIRCUIT BREAKER
Richard C. Ingwersen, Jackson, Mich., assignor to Mechanical Products, Inc., Jackson, Mich., a corporation of Michigan
Application February 5, 1952, Serial No. 269,988
5 Claims. (Cl. 200—116)

1. In an electric circuit breaker having current overload protection, supporting structure, an

actuator plunger reciprocable upon said supporting structure, movable electrical contact means on said actuator plunger, fixed electrical contact means on said structure, said actuator plunger being movable in one direction to engage said movable contact means with said fixed contact means, bi-metallic structure in electrical connection with said movable contact means, said bi-metallic structure having a free end deformable by the heat of the conducted current, means mounting said movable contact means and bi-metallic structure for movement as a unit relatively to said actuator to disengage said contacts, and mechanical latch mechanism comprising a part on said actuator plunger and a part on said supporting structure, said parts being interengageable to hold said unit in the contact engaged position, said bi-metallic structure being disconnected from said latch mechanism but having its said free end located adjacent one of said latch parts in position to disengage said latch parts when the bi-metallic structure is deformed under the heat of current of a predetermined value.

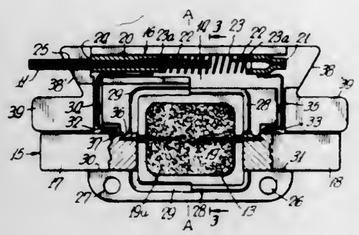


2,668,887

MECHANICAL INDICATING CURRENT LIMITER

Michael D. Lazar, New York, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York

Application November 14, 1952, Serial No. 320,453
9 Claims. (Cl. 200—121)



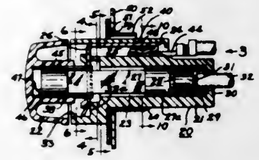
1. In a current indicating limiter comprising a housing, a pair of connecting members having outside contacts, a fuse connected thereto, and a chamber for said fuse; an indicator chamber positioned outside of said fuse chamber, conducting means positioned outside the fuse chamber for shunting the current from the connecting members to the indicator chamber, a plunger for movement outside the limiter, means operated by said shunt current for actuating the plunger whereby an external indication will be produced when the limiter has been blown.

2,668,888

FUSE HOLDER

Elbert L. Johnson, Warren, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application September 14, 1950, Serial No. 184,772
4 Claims. (Cl. 200—129)



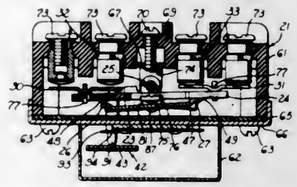
1. A fuse holder comprising; a body of insulating material having a main passage and an auxiliary passage; a movable contact within the main passage; resilient means for resisting movement of the contact; a ring contact anchored within the main passage and normally spaced longitudinally from the movable contact, said ring contact having an integral arm extending radially from the ring and having its free end bent so that it will extend into one end of the auxiliary passage, said arm adapted to grip yieldingly a terminal inserted in the other end of the auxiliary passage; a knob having a recess; a metal split sleeve having one end frictionally supported within the recess and having the other end adapted to pass through the ring contact, said sleeve having radial portions capable of underlying the ring contact; a cartridge type fuse having one cap thereof frictionally received by the sleeve to connect same electrically with the ring contact when the sleeve and fuse are inserted in the main passage with the other cap of the fuse in electrical contact with the movable contact, said resilient means urging the radial portion against the ring contact to establish an electrical connection between the contacts through the fuse.

2,668,889

SNAP-ACTION THERMOSTATIC SWITCH

Albert E. Baak, Pacific Palisades, Calif., assignor to Paul Henry, Los Angeles, Calif.

Application December 30, 1950, Serial No. 203,597
20 Claims. (Cl. 200—138)



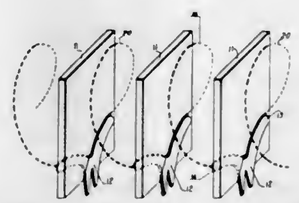
1. In a snap-action mechanism, the combination of: supporting structure; an actuating member; pivot means providing a pivot axis and connecting said actuating member to said supporting structure for pivotal movement about said pivot axis; an actuated member mounted for pivotal movement relative to said supporting structure about said pivot axis so that both said actuating member and said actuated member are pivotable about the same said pivot axis; means operatively connecting said actuated member to said actuating member so that said actuating member pivots said actuated member upon pivotal movement of said actuating member about said pivot axis, said connecting means including a lost-motion connection between said actuated member and said actuating member so that said actuating member does not pivot said actuated member until a predetermined pivotal movement of said actuating member has occured, whereby said actuating member applies an impact force to said actuated member; means including a pair of stop means carried by said supporting structure for limiting pivotal movement of said actuating member; means for applying to said actuating member at a point spaced from said pivot axis a substantially constant force tending to produce pivotal movement of said actuating member about said pivot axis in one direction; and an element on said actuating member at a point spaced from said pivot axis and adapted to have applied thereto a variable input force tending to produce pivotal movement of said actuating member in the opposite direction, whereby said actuating member pivots in one of said directions or the other, depending on the magnitude of said variable input force.

2,668,890

DEVICE FOR EXTINGUISHING ELECTRICAL ARCS

André Latour, Grenoble, France, assignor to The Etablissements Merlin & Gerin (Societe Anonyme), Grenoble, France, a corporation of France

Application October 3, 1950, Serial No. 188,148
Claims priority, application France October 13, 1949
7 Claims. (Cl. 200—144)



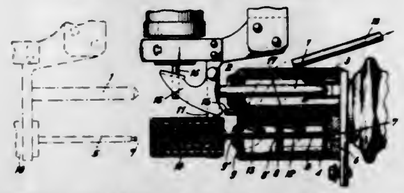
1. A device for extinguishing an electric arc to be drawn between separable contact members, said device including an arc formation chamber and contiguous therewith an arc extinguishing chamber, said arc formation chamber containing said separable contact members and means for expanding said arc into said arc extinguishing chamber, said arc extinguishing chamber including at least two parallel plates of insulating material, spaced apart from one another to leave a narrow space therebetween and disposed substantially transversely of the direction of separation of said contacts, each plate provided with a linearly extended conductive element projecting into said space between the plates laterally along the surfaces thereof from the entrance into said space and adjoining said arc formation chamber, said conductive elements terminating within said space at a point intermediate the entrance and the exit of said space, the conductive elements disposed upon the opposite faces of each plate diverging relatively to each other; thereby to draw a section of said arc into said space, turn it round into a position substantially perpendicular to its initial path, move it along said diverging conductive elements and, when it has reached the terminating points thereof, cause it to expand peripherally within said space and between said terminating points until extinction.

2,668,891

CONTACT MECHANISM FOR CIRCUIT BREAKERS

Fritz Driescher, Jr., Moosburg, Germany

Application November 4, 1952, Serial No. 318,709
Claims priority, application Germany March 11, 1952
6 Claims. (Cl. 200—146)



1. Circuit breaker mechanism of the class described, comprising: a main stationary contact; a main movable contact engageable with said main stationary contact; a main movable contact supporting member upon which said main movable contact is supported; an apertured arcing chamber; an auxiliary stationary contact disposed within said arcing chamber; an auxiliary movable contact connected with said main movable contact and freely movable through said aperture into and out of said arcing chamber for engagement with said auxiliary stationary contact; closure means responsive to withdrawal of said movable auxiliary contact from said arcing chamber for closing said aperture; and delaying means effective during the opening of said main contacts for causing said auxiliary contacts to remain closed until after said main contacts have opened, said delaying means comprising spring means connecting said movable auxiliary contact to said supporting member, said two auxiliary contacts further comprising means for opposing the opening of said auxiliary contacts until a predetermined minimum force tending to open said auxiliary contacts has been produced in said spring means by movement of said supporting member.

2,668,892

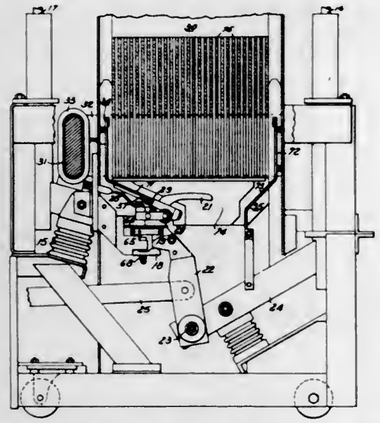
CONTACT AND ARC RUNNER STRUCTURE FOR CIRCUIT INTERRUPTING DEVICES

Arthur C. Kelle, Stoughton, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application December 30, 1950, Serial No. 203,613
6 Claims. (Cl. 200—147)

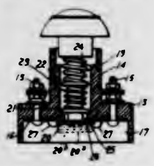
1. An electric circuit interrupting device comprising a stationary contact, a movable switch blade, means for moving said blade into and out of engagement with said stationary contact, an arc extinguishing device comprising a pair of spaced flat metallic arc runners, a pair of cooperating arcing contacts between which an arc is ignited when the circuit is interrupted mounted adjacent said arc extinguishing device, said arcing contacts comprising a slotted horn shaped fixed arcing contact electrically connected to said stationary contact and a relatively movable arcing contact comprising a portion of said blade contact firmly engaging the slot walls of said fixed arcing contact when in circuit closed position, means for flexibly mounting said fixed arcing contact for self-alignment during contact engagement with said movable arcing contact, said blade actuating means separating said arcing contacts immediately following disengagement of said blade from said stationary contact during circuit opening operation, and insulating

shield means arranged between said stationary contact and said horn shaped fixed arcing con-



tact to protect said stationary contact from arc flames and hot gases formed at the point of break of said arcing contacts.

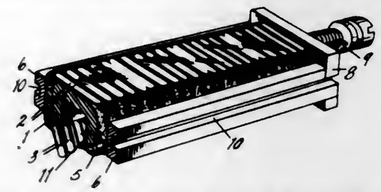
2,668,893
ELECTRICAL SWITCHGEAR
George Edwards Vaughan, Granville, New South Wales, Australia, assignor to G. E. Vaughan & Company Pty. Limited, Granville, New South Wales, Australia, a corporation of New South Wales
Application October 27, 1952, Serial No. 316,997
Claims priority, application Australia January 31, 1952
8 Claims. (Cl. 200—159)



1. A switch comprising a body of insulating material, at least two electrical contacts mounted thereon and spaced from one another, an auxiliary member, a bridging contact mounted upon the said auxiliary member and a spring arranged to constrain the said bridging contact into contact with the other said contacts, the said auxiliary member, spring and bridging contact being withdrawable as a unit from the said body and being rotatable therein to bring said bridging contacts into or out of contact with the other said contacts.

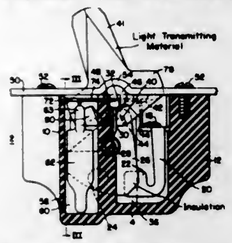
2,668,894
COMMUTATOR AND METHOD OF MANUFACTURE THEREFOR
James Norman Coates, Grand Rapids, Mich., assignor to Carbonneau Industries, Incorporated, Grand Rapids, Mich.
Application August 27, 1951, Serial No. 243,785
16 Claims. (Cl. 200—166)

1. A commutator comprising an elongated insulating core of downwardly opening U-shaped transverse cross section, a plurality of contact strands of silver wire wrapped around the top and sides of said core with one end of each strand extending bendably across the open under side of the core for attachment to a conductor, some of said strands being spaced from adjacent strands and others of said strands being positioned in adjacent contacting relation to adjacent strands, a binding coating of thermosetting insulating plastic positioned over said core and between said strands, said strands being ground



off flat to one half their thickness along the top of said core down to and flush with the coating positioned therebetween, a rectangular frame positioned around the sides and ends of said core and retainingly embracing the sides of said strands, and an adjusting screw threadingly engaged with an end member of said frame.

2,668,895
SWITCH
William F. Allenby, Stratford, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a corporation of Connecticut
Application January 28, 1950, Serial No. 141,038
9 Claims. (Cl. 200—167)

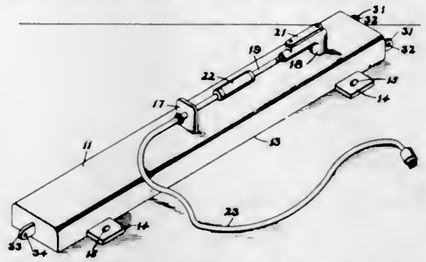


1. A switch comprising, a switch casing, separable contacts in said casing, an operating handle of a light transmitting material movably mounted in said casing and extending through an opening in the casing so as to be operable from the exterior for actuating said contacts, a light source in said casing, said handle having an integral inner portion which is movable to and away from a position where it is in proximity to said light source to thus transmit light to the exterior of the casing at the aforesaid handle position, and said handle having a substantially plane surface in proximity to said light when the handle is at its aforesaid position, which surface is positioned substantially perpendicular to a substantial part of the light rays emanating from said source, said inner portion of said handle being in closest proximity to said light source when the light source is energized and said contacts are separated.

2,668,896
HEATER
Stephan Husaczka and Haylett M. Johansen, New York, N. Y., and Norman E. Cardini, Jersey City, N. J.
Application June 23, 1952, Serial No. 295,136
5 Claims. (Cl. 219—19)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A heating device comprising an elongated shell, said shell on its inside being substantially

parabolic in transverse section and being polished, a rim on said shell forming a seat, a support in said shell adjacent one end thereof, a tubular heating unit fastened to said support, said tubular heating unit being of hairpin shape with the bend at the end of the shell remote from



said support, said tubular heating unit having its legs bent back under said support, and a cable connected to said legs under said support, said support forming a shield for the connection between said legs and cable against access from said rim.

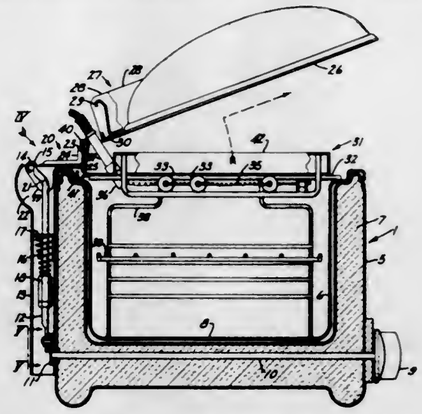
2,668,897
SMOOTHING IRON
Justice H. Beach and John E. Vance, Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application January 6, 1949, Serial No. 69,496
7 Claims. (Cl. 219—25)



3. A smoothing iron including a sole plate, a concentrated heating element embedded in said sole plate, a control structure including a thermal element for governing said heating element positioned remotely from the portion of said sole plate in which said heating element is embedded, and a copper heat conductor having one part thereof in direct thermal contact with said embedded heating element and another part thereof in direct thermal contact with said control structure.

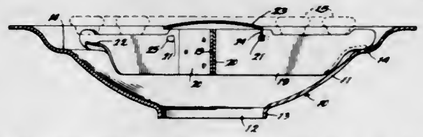
2,668,898
ELECTRIC FOOD BROILER
William P. Von Behren, Toledo, Ohio, assignor, by mesne assignments, to Tropic-Aire, Inc., Chicago, Ill., a corporation
Application December 9, 1949, Serial No. 132,131
6 Claims. (Cl. 219—35)

1. In combination in a combination roaster and broiler, an open-topped container constituting a roaster body, two interchangeable overlying parts for said receptacle consisting of a roaster cover and a broiler frame having an electric broiling heater thereon, a hinged supporting bracket for said overlying parts hinged to said food receptacle on a horizontal pivot line at the rear of said receptacle near the top thereof and rotatable through an angle of approximately 90 degrees, cooperable detachable connectors on said hinged bracket, said roaster cover and said broiler frame for supporting said cover and broiler frame on said bracket separately so that rotation of said bracket carries said cover or rack from a substantially horizontal position overlying said receptacle to an approximate vertical position for giving access to said receptacle, an exterior operating handle on said food receptacle remote from said hinged supporting bracket, actuating mechanism connecting said handle to said bracket for rotating it and for lifting and lowering said cover and broiler rack, said cooperable detachable connectors including two hooks on said hinge bracket turned away from each other and lying one above the other when said bracket is in the position for holding said roaster cover or broiler frame in said overlying position,



said connectors including also a pair of hooks on each of said broiler frames and roaster covers, said hooks of said pair opening toward each other for engaging the hooks of said hinge, said roaster cover or broiler frame, when in said overlying position, being supported on the upper hook, and when in said vertical position, sliding on said upper hook for engaging the lower hooks.

2,668,899
RANGE TOP BURNER PAN AND ELECTRIC RESISTANCE SUPPORT
Edwin A. Rutenber, Baldwin Lake, Mich., assignor to Gibson Refrigerator Company, Greenville, Mich., a corporation of Michigan
Application March 20, 1951, Serial No. 216,574
9 Claims. (Cl. 219—37)

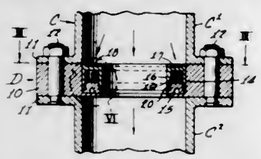


5. In combination with a range top having a reflector pan indented near the upper portion thereof to provide a spider-supporting surface, a spider comprising a plurality of thin vertically-extending blade arms united at the center of the spider, said arms having their outer ends equipped with broad bases wider than the blades and rockably resting on said supporting surface, and an electrical heating element freely supported by said spider.

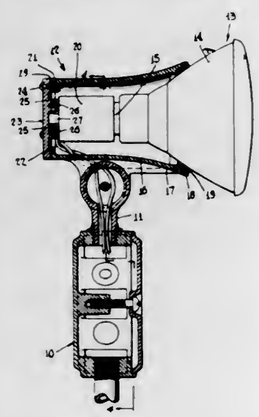
2,668,900
FUEL VAPORIZER FOR INTERNAL-COMBUSTION ENGINES
Michael J. Kwartz, Van Nuys, Calif., assignor of one-half to Grace M. Trankla, Van Nuys, Calif.
Application June 21, 1950, Serial No. 169,355
4 Claims. (Cl. 219—38)

2. In a fuel vaporizer for an internal combustion engine: an adaptor having a passageway extending therethrough; the adaptor defining a

horizontal flange projecting inwardly of the passageway; a ring-shaped fuel collector disposed in the passageway of the adaptor; the collector having an upwardly-opening annular groove in an upper surface of the collector for catching liquid fuel passing downwardly through the passageway; the collector having an annular recess extending upwardly thereinto from a lower surface of the collector; an annular casing having a channel-shaped cross-section provided with a heating element mounted in its channel; this casing being arranged in the underneath annular recess of the collector; and a ring forming a closure over this recess, and retaining the casing in place; the ring resting on the horizontal flange of the adaptor.

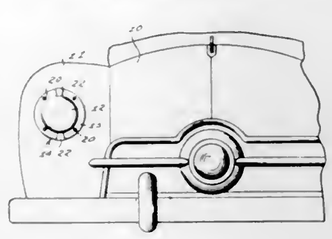


2,668,901
LAMP HOLDER FOR REFLECTOR-TYPE OUTDOOR LAMPS
Merritt B. Austin, Jr., Deerfield, Ill.
Application December 15, 1949, Serial No. 133,106
1 Claim. (Cl. 240—3)



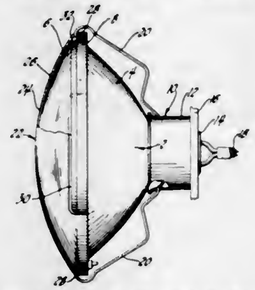
In a weatherproof outdoor lamp holder of the type having an outwardly flaring tubular housing having an enlarged mouth and an annular cushioning means at the interior of its mouth portion, and having a socket in the housing to receive and support a reflector-type outdoor lamp of the kind having a relatively large envelope provided with a front surface for exposure to the weather and a tapered rear surface, said rear surface contacting said cushioning means and forming a weather-tight connection with the housing at the flared end thereof, said lamp being thereby prevented from passing completely through the bore of the housing, the improvement which comprises: the rear end of the housing terminating in a continuous annular edge having a plurality of inwardly extended lugs disposed and projecting solely into the bore of the housing, said annular edge and lugs defining a rear opening in the housing; a closure plate for the rear of the housing, having a planar, faced, marginal portion closely fitting and conforming in outline to the contour of the continuous annular edge of the housing; two pairs of spaced bosses on and projecting from the inner side of the closure plate for mounting the lamp socket on one side solely thereof in a position axially normal to the plate, said rear opening being large enough to permit insertion of the socket into the housing when the socket is mounted on the plate to position the socket within the housing for the reception of the base of the lamp, the bosses of the said pairs being disposed in staggered relation in a zone extending around the center of the closure plate and said bosses all having flat socket-engaging faces lying in a single plane perpendicular to the axis of the socket and disposed forwardly of the plane of the said faced marginal portion of the closure plate and engaging the rear of the socket, the bosses of one pair being closer to each other than the bosses of the other pair and having threaded holes to receive fastening screws passing through the socket, the bosses of the other pair engaging the back of the socket and holding the socket against pivotal movement about the fastening therefor; and means securing the closure plate to the housing in weather-tight relation thereto.

2,668,902
HEADLAMP RIM LIGHT
Nathan Fisher, Mount Kisco, N. Y.
Application December 9, 1949, Serial No. 131,987
1 Claim. (Cl. 240—7.1)



A lighting device for mounting about the headlamp-receiving opening of an automobile body, comprising: a solid, annular ring unbroken throughout its circumference and formed of light-transmitting material, said ring being proportioned to extend about the edge of said opening and having a cylindrical inner surface concentric with the opening, said ring having fastening elements spaced circumferentially thereof and projecting rearwardly therefrom for connection to an automobile body against which the rear surface of the ring is engaged, the ring having diametrically opposite transverse openings formed therein, said openings of the ring terminating at one end short of the front surface of the ring and opening at their other ends upon said rear surface of the ring; light sources for the ring disposed in the openings thereof and having base portions projecting rearwardly from the ring for mounting in said body, said light sources being adapted to transmit light through the full circumference of the ring; and U-shaped, opaque shields straddling said ring at the locations of the openings thereof, the bights of said shields overlying the front surface of the ring and the legs thereof extending over the sides of the ring into contact with said body to prevent transmission of light through the surface of the ring covered by said bight and legs of the shield.

2,668,903
AUXILIARY LAMP SNAP-ON FILTER
Edward L. Barcus, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 14, 1949, Serial No. 104,656
1 Claim. (Cl. 240—46.59)



In combination with a vehicle auxiliary trouble lamp comprising a sealed-beam unit, an adapter for connecting said unit in the electrical system of said vehicle, said adapter comprising a cup-shaped spool member, an electrical connector, and a plate member, and means for clamping said sealed-beam unit in said adapter, said means comprising a pair of spring clamps each detachably secured at one end to said spool member, a light filter in the form of a disk having inner and outer spherical surfaces substantially conforming to the contour of the outer lens surface of the sealed-beam unit, and having a pair of diametrically disposed axially extending integral flanges formed at the edge of said filter for engaging the peripheral edge of said sealed-beam unit and positioning said filter thereon, said filter additionally having disposed centrally of said flanges to rectangular apertures through which said spring clamps grip the sealed-beam unit.

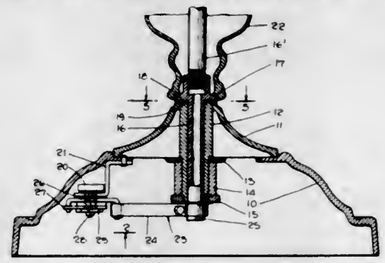
2,668,904
ELECTRIC LIGHTING FIXTURE
Stanley McCandless, Hamden, Conn., assignor to Century Lighting, Inc., New York, N. Y., a corporation of New York
Application January 19, 1949, Serial No. 71,618
2 Claims. (Cl. 240—52)



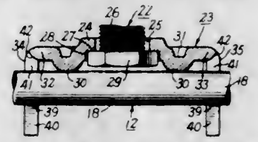
1. An electric lighting fixture comprising a housing, a pair of arms disposed on diametrically opposite sides of said housing at a horizontal level, separate means to rotatably connect each of said arms to said housing for turning about aligned horizontal axes, a locking disc within the housing, means to fix one of said arms to said locking disc, a locking dog within and carried by the housing adjacent said locking disc, a knob carried by and disposed externally of the housing, and means connecting said knob and dog for clamping said dog against said disc upon manipulation of said knob.

2,668,905
ELECTRIC LAMP SWITCH CONSTRUCTION
Louis H. Morin, Bronx, N. Y.
Application June 12, 1952, Serial No. 293,052
1 Claim. (Cl. 240—123)

A switch operating mechanism for lamps of the character described, comprising a unitary open bottom base, said base forming the support for said lamp, a bearing centrally of said base, a column rotatably mounted in the bearing and having an end projecting into the base, a switch, means fixed to the base for supporting the switch wholly within the base, a lever mounted on said projecting end of said column, a switch actuating member coupled with said switch, means coupled with said lever and in operative engagement with said switch operating member for intermittently rotating said member in rotation of said column to move the switch into different circuit controlling positions in controlling operation of a lamp bulb supported in said lamp, said last named means comprising a plate slidably mounted on said switch, said member including a plurality of circumferentially spaced projections, and a pair of pawls pivoted to said sliding plate and operatively engaging said projection in intermittently rotating said member.



2,668,906
LAMP SHADE STUD SUPPORT
Philip Miller, Flushing, N. Y.
Application June 27, 1951, Serial No. 233,737
4 Claims. (Cl. 240—148)

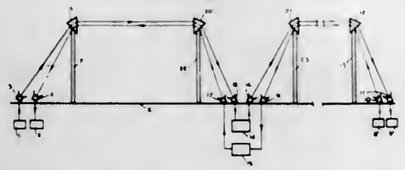


1. A lampshade swivel head for supporting a shade stud on a lamp harp comprising a substantially flat disc having a substantially central aperture therethrough for receiving the stud, the area of said disc immediately surrounding said aperture being recessed from one face for receiving the stud head when the stud is inserted through the aperture, an annular ridge formed on said disc outwardly of said recess and projecting from said face, and two ears secured to said disc and depending from said disc face adapted to engage the harp and draw said ridge into frictional engagement with said harp; thereby enabling frictional engagement between the swivel head and the harp by the opposed stressed relationship of the ears and ridge with respect to the harp.

2,668,907
ULTRAHIGH-FREQUENCY RADIO SIGNALING SYSTEM
John Michael Thompson Evans, London, England, assignor to The General Electric Company Limited, London, England
Application October 10, 1950, Serial No. 189,393
Claims priority, application Great Britain October 25, 1949
2 Claims. (Cl. 250—15)

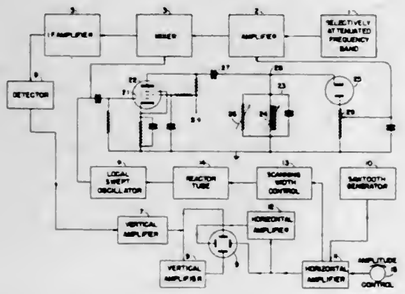
2. A repeater station for an ultra-high frequency radio point-to-point signalling system

between two remote stations, said repeater station comprising two prismatic devices for refracting ultra-high frequency radio waves, means mounting said devices in positions elevated above ground level with an apex of each device pointing in the general direction of the ground, a transmitting aerial disposed substantially at ground level and oriented for transmitting a narrow beam of radio waves of predetermined ultra-high frequency in the direction of one of the prismatic devices, a receiving aerial disposed substantially at ground level and oriented for receiving a narrow beam of radio waves of predetermined ultra-high frequency which is radiated



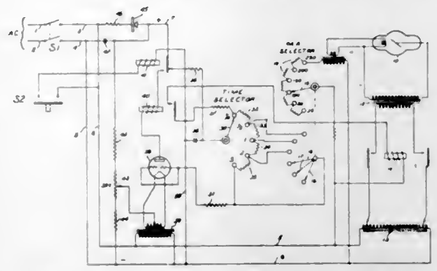
by the other of said prismatic devices, and means to transfer signals received by the receiving aerial to the transmitting aerial for re-transmission, each said prismatic device being so oriented that the bisector of its lower apex angle bisects the angle between the wave from the said device and the associated aerial and the wave from said prism and the associated remote station, the prismatic devices and the aerials being so disposed that the beam transmitted by the transmitting aerial is refracted by the associated prismatic device so as to be directed toward one of the remote stations and the beam from the other remote station is refracted by the other prismatic device toward the receiving aerial.

2,668,908
PANORAMIC RECEIVER BANDPASS COMPENSATION SYSTEM
Elvin E. Herman, Washington, D. C.
Application September 19, 1945, Serial No. 617,405
19 Claims. (Cl. 250—20)
(Granted under Title 35, U. S. Code (1952), sec. 266)



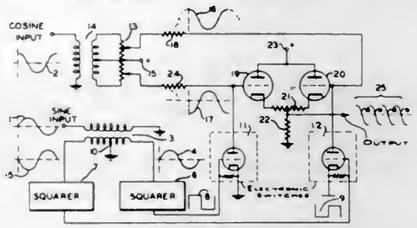
19. In combination, a source of a selectively attenuated band of signals having unequal attenuation at different frequency positions of said band, a gain adjustable frequency scanning spectrum analyzer for analyzing and visually displaying the amplitudes of signals in said band, and means for varying the gain of said spectrum analyzer in synchronism with said frequency scanning during said frequency scanning so as to compensate for said unequal attenuation of different frequency positions of said band.

2,668,909
EXPOSURE TIMER FOR X-RAY APPARATUS
Samuel A. Johnston, Walworth, Wis., assignor to The George W. Borg Corporation, Chicago, Ill., a corporation of Delaware
Application April 10, 1950, Serial No. 155,105
13 Claims. (Cl. 250—27)



1. In an electronic timer, a condenser, a charging circuit for said condenser, a constantly closed discharge circuit for said condenser including a resistance, a timer switch for varying said resistance, means for opening said charging circuit to permit said condenser to discharge over said closed circuit, a space discharge device having a control grid, and a grid circuit connecting the positively charged terminal of said condenser to said grid and over which said condenser maintains a positive potential on said grid until it becomes discharged below a predetermined potential.

2,668,910
COSINE SWEEP CIRCUIT
Merle A. Starr, Belmont, Mass.
Application November 5, 1945, Serial No. 626,846
4 Claims. (Cl. 250—27)

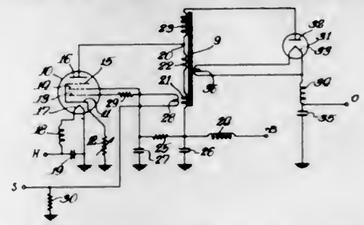


2. A circuit for producing a unidirectional non-linear sweep voltage comprising, a source of cosine waves, a pair of electron tubes having at least control grids, anodes, and cathodes and biased to be conducting, means for applying oppositely phased cosine waves from said source to said control grids, and a pair of electron switches connected to ground each of said control grids alternately for each of said tubes to be non-conducting during alternate half cycles of said cosine wave whereby the output of said circuit reproduces successive half-cycle cosine waves.

2,668,911
HIGH VOLTAGE GENERATOR
Kurt Schlesinger, Maywood, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application May 19, 1948, Serial No. 28,030
4 Claims. (Cl. 250—36)

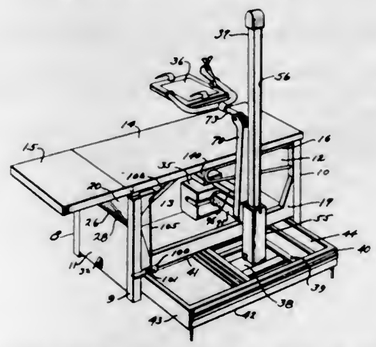
1. A high voltage power supply comprising an inductance unit including a ferromagnetic core and first, second and third windings thereon, said

core including a plurality of laminations positioned to provide two sections each having rectangular cross section and sharp edges, means for adjustably securing said sections together to provide a magnetic circuit having an air gap which is of variable length to thereby provide adjustment of the inductance of said windings, a conducting inlet positioned between said core and said windings for reducing the tendency for flash-over from the concentrated electrostatic fields at said sharp edges of said core, an electron discharge valve having input and output electrodes, a source of potential, means connect-



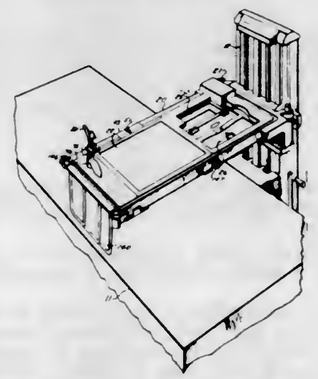
ing said first winding in series with said source of potential across said output electrodes, a feedback circuit including said second winding connected to said input electrodes, said feedback circuit being arranged to block said valve when the current in said first winding reaches a predetermined value, so that the energy in said inductance unit oscillates freely to provide high voltage pulses, said feedback circuit rendering said valve conducting after said oscillation has continued for at least one cycle to produce positive and negative pulses and means connecting said first and third windings in series so that the voltages therein are substantially in phase.

2,668,912
X-RAY APPARATUS
Edwin R. Goldfield and Robert J. Stava, University Heights, Ohio, assignors to Picker X-Ray Corporation, Waite Manufacturing Division, Inc., Cleveland, Ohio, a corporation of Ohio
Application May 27, 1949, Serial No. 95,684
18 Claims. (Cl. 250—57)



1. X-ray apparatus comprising a table having a stationary supporting frame, a top mounted on the frame for tilting movement with respect thereto, a tube head, a fluoroscopic screen unit, a carriage, means mounting said head and screen unit upon said carriage in spaced relation for adjustment together as a unit about an axis, and means mounting the carriage on the frame for movement longitudinally and transversely of the top, said frame including an opening adjacent one side of the table whereby the tube head may be positioned either beneath or above the top whenever the top is in horizontal position, and whereby the tube head may be moved vertically throughout substantially the length of the top whenever said top is in vertical position.

2,668,913
X-RAY APPARATUS
Edwin R. Goldfield and Robert J. Stava, University Heights, and Edgar J. Bastin, Cleveland, Ohio, assignors to Picker X-Ray Corporation, Waite Manufacturing Division, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 5, 1949, Serial No. 85,686
23 Claims. (Cl. 250—62)

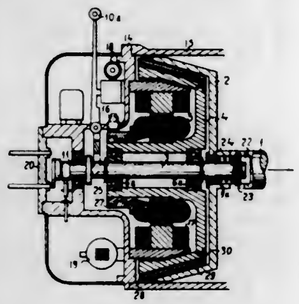


1. In apparatus of the character described, a frame having a trackway carried thereby, a cassette carrier mounted for movement along the trackway between storage and exposure positions, an electric motor, mechanism operably interconnecting the motor and carrier for moving the carrier in either direction along the trackway, and settable means carried by the frame and cooperating with said carrier for selectively engaging and stopping the carrier at a pre-determined point on the trackway.

2,668,914
POWER UNIT
Edmond Uher, Munich, Germany, assignor to Uher Engineering Company, Panama, Republic of Panama, a company of Panama
Application September 4, 1952, Serial No. 307,776
Claims priority, application Germany September 6, 1951
3 Claims. (Cl. 290—1)

1. A power unit including an internal combustion engine having a crankshaft, ancillary apparatus to be actuated from said crankshaft and a starter comprising a fly-wheel, a friction clutch having a first member rotatively fast with said crankshaft and a second member rotatively fast with said fly-wheel, an electric motor having a stator and a rotor which is also rotatively fast with said fly-wheel, elastic means for normally clutching said first and second member together to operatively connect said fly-wheel with said engine crankshaft, means for declutching said first and second members from each other against the action of said elastic means to let said rotor store into said fly-wheel the kinetic energy required for starting said engine, said

clutch first member being more spaced radially than said stator, rotor, fly-wheel and clutch second member from their common axis, an extension for said crankshaft through said starter and means on the portion of said extension projecting from said starter on the side opposite to said engine, to actuate said ancillary apparatus.



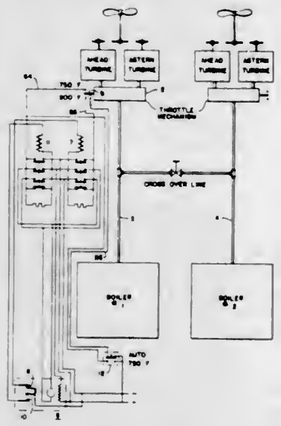
2,668,915

VAPOR POWER CONTROL SYSTEM AND METHOD OF OPERATING VAPOR POWER SYSTEM

Paul S. Dickey, East Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Application November 23, 1945, Serial No. 630,489, now Patent No. 2,580,345, dated December 25, 1951, which is a continuation of application Serial No. 347,192, July 24, 1940. Divided and this application April 27, 1951, Serial No. 223,418

17 Claims. (Cl. 290—2)



3. The method of operating a vapor power system which includes, generating vapor at a predetermined standard of temperature and pressure, supplying the vapor to a turbine, driving an electric generator by the turbine, detecting load changes on the generator, diverting the vapor from the turbine upon loss of electric load on the generator and establishing a second predetermined standard of temperature and pressure to be maintained, and thereafter maintaining the second standard.

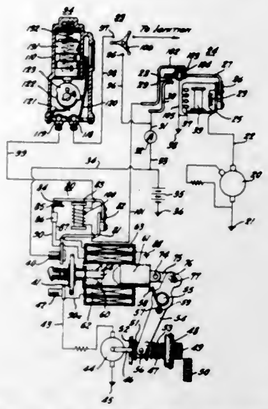
2,668,916

ENGINE STARTING APPARATUS

Lawrence C. Dermond, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application January 22, 1952, Serial No. 267,652

13 Claims. (Cl. 290—38)



1. In a starting apparatus for internal combustion engines having a starting motor, a current source and a circuit for connecting said starting motor with the current source; a control switch for controlling said circuit having a switch operating member movable to different positions to effect closing and opening of said switch, manual means for operating said member and operable to move said member to effect either closing or opening of said switch means permitting a predetermined movement of said manual means before said switch operating member is moved, a member movable during self-operation of the engine to a position to prevent closing of said switch, means operative to prevent movement of said member to its effective position while said switch is closed, and means operable to release said member to permit operation thereof when said switch closing member is moved to its normal switch opening position.

2,668,917

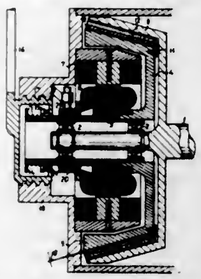
ELECTRICALLY DRIVEN FLY-WHEEL STARTER

Edmond Uher, Munich, Germany, assignor to Uher Engineering Company, Panama, Republic of Panama

Application September 4, 1952, Serial No. 307,777

Claims priority, application Germany September 5, 1951

8 Claims. (Cl. 290—48)



1. A power unit including an internal combustion engine having a crankshaft and a starter comprising a fly-wheel, a friction clutch having a first member rotatively fast with said crankshaft and a second member rotatively fast with said fly-wheel, an electric motor having a stator and a rotor which is also rotatively fast with said fly-wheel, elastic means for normally clutching said first and second member together to operatively connect said fly-wheel with said engine crankshaft and means for declutching said first and second members from each other against the action of said elastic means to let said rotor store into said fly-wheel the kinetic energy required for starting said engine, said clutch first member being at a greater radial distance from the axis of said crankshaft than said stator, rotor, fly-wheel and clutch second member.

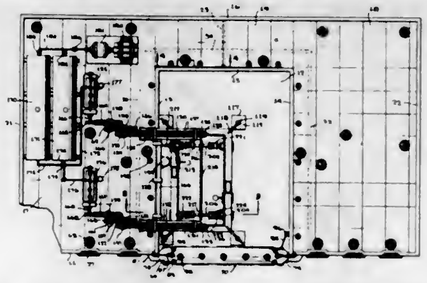
2,668,918

TIDE-OPERATED POWER PLANT

Vernon W. Howell, Albany, Calif.

Application February 5, 1952, Serial No. 270,055

8 Claims. (Cl. 290—53)



3. A tide-operated power plant comprising a structure providing a basin having a floor below low tide level and a platform adjacent said basin and disposed above high tide level, said basin being subject to the flow of tide water in and out, power-generating means mounted on said platform, a float in said basin, and means drivingly connecting said float to said power-generating means for operating the latter by rising and descending movements of said float incident to the rising and falling of tides in said basin, said means drivingly connecting said float to said power-generating means including energy storage means for driving said power-generating means at times at a rate in excess of the current rate of energy delivery by said float.

2,668,919

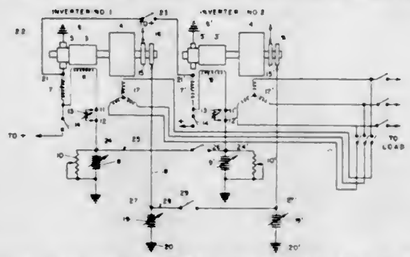
ELECTRICAL SYSTEM FOR OPERATING INVERTERS IN PARALLEL

Clarence G. Puchy, Lyndhurst, Ohio, assignor to Jack & Heintz, Inc., Cleveland, Ohio, a corporation of Delaware

Application May 19, 1952, Serial No. 288,640

4 Claims. (Cl. 307—58)

1. In combination in an electrical system including a plurality of inverters for changing direct electric current into alternating electric current, each of which are provided with continuous type automatic voltage, frequency and speed control of the carbon pile type, automatic means for operating said inverters in parallel and synchronizing the operation thereof, said means including a series motor equalizer between the series windings of said inverters and an equalizer switch therefor, a speed governor equalizer between the carbon pile speed regulators of said inverters and an equalizer switch therefor, an equalizer connection and switch between the carbon pile voltage regulators of said inverters and a low variable resistor in the shunt field windings of the series fields of said inverters.



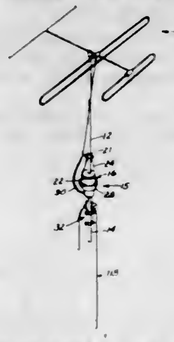
2,668,920

ANTENNA ROTATOR

Edward L. Barrett, La Grange, Ill.

Application August 22, 1951, Serial No. 243,108

9 Claims. (Cl. 310—67)



1. In an antenna rotator, the combination comprising a stationary base; means at the underside of said base for supporting the same; a driving mechanism on said base having a frame, driving motor, and gear train terminating in a drive pinion; an inverted bell-shaped housing telescoped over said drive mechanism; a thrust bearing on said frame in coaxial relationship with said housing for engaging the interior wall thereof for supporting the housing and permitting rotation thereof; means mounted on top of said housing in coaxial relationship therewith for supporting an antenna; and a housing gear coaxially fixed in said housing, said drive pinion being positioned for meshing with said housing gear upon said housing being telescoped over said driving mechanism and into seated position on said thrust bearing.

2,668,921

ANTIHUNTING SYSTEM FOR CONSTANT SPEED ENGINES

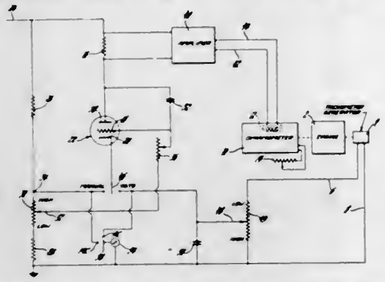
Joseph F. Lash, Ferndale, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application September 3, 1949, Serial No. 114,053

6 Claims. (Cl. 310—93)

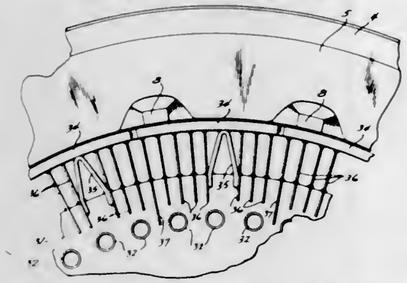
1. In a speed control system for a prime mover having a controllable load, an auxiliary generator providing a control voltage proportional to speed, a multi-element thermionic tube having input and output circuits and a control grid, with connections between the output circuit and the controllable load and between the input circuit and the output of the auxiliary generator, the combination with said thermionic tube of a

source of biasing potential and a time constant circuit interconnecting said tube output with said



control grid and the source of biasing potential to apply changes in output potential to the control grid for damping rapid changes in output current.

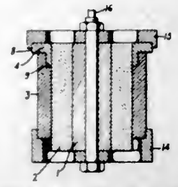
2,668,922
TORQUE TRANSMITTING EDDY-CURRENT APPARATUS
Will S. Burdick, Wauwatosa, and Robert E. Meyer, Shorewood, Wis., assignors to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application May 1, 1952, Serial No. 285,434
4 Claims. (Cl. 310—105)



1. In a torque transmitting eddy current apparatus having a field member with windings adapted to be excited to establish a magnetic flux and a drum of magnetic material relatively rotatable with respect to said field member disposed in flux conducting relation thereto, the improvement in said drum which comprises a substantially non-deformable drum support, a plurality of segmental drum shoes arranged in end to end relation with the surfaces thereof facing said field member and disposed in a substantially common surface of revolution, a single substantially non-deformable torque transmitting anchorage for each of said shoes secured to said drum support and each extending therefrom radially to an anchorage with its respective shoe to provide thermally expandable overhanging shoe portions, and a plurality of thin yieldable heat dissipating fins for the overhanging portions of each of said shoes secured in heat conducting relation to said shoes and extending radially therefrom.

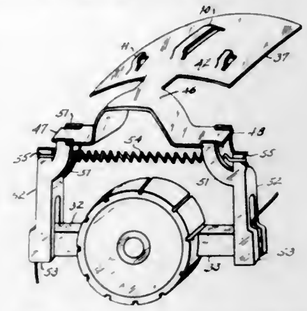
2,668,923
CURRENT COLLECTOR
Ralph J. Bondley, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application July 14, 1951, Serial No. 236,761
5 Claims. (Cl. 310—236)

1. A commutator comprising a cylindrical ceramic core member, a plurality of evenly spaced longitudinal bars of refractory conductive material arranged around a periphery of said core member and respectively bonded thereto, and a



plurality of risers formed of electrically conductive metal for making electrical connections to said bars respectively bonded to said core member and said bars.

2,668,924
DYNAMOELECTRIC MACHINE
Frank Richard Merriam, Jr., Owosso, Mich., assignor to Redmond Company, Inc., Owosso, Mich., a corporation of Michigan
Application November 3, 1950, Serial No. 193,855
8 Claims. (Cl. 310—239)

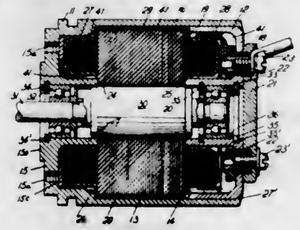


1. In combination, a motor casing, a stator mounted within said casing with a gap between said stator and said casing, an armature rotatably mounted within said stator and having a commutator extending outwardly axially beyond said stator, a member retained in said gap, a portion of said member projecting out of said gap over said commutator, said member portion having bearing surfaces of appreciable effective length on both sides thereof and oriented substantially parallel to the axis of said armature, brush-holding arms having ends of an overall width not substantially less than the effective length of said bearing surfaces and having surfaces pivotally engageable with said bearing surfaces at least at points spaced an appreciable distance widthwise of said arm ends, means for preventing longitudinal movement of said arms relative to said bearing surfaces, brushes carried by said arms and engaging spaced portions of said commutator, and resilient means operatively connected to said arms and urging them to pivot in such a direction as to press said brushes against said commutator.

2,668,925
ELECTRIC MACHINE CONSTRUCTION
Dwight W. Bloser, West Englewood, N. J., assignor to Kearfott Company, Inc., New York, N. Y., a corporation of New York
Application April 5, 1949, Serial No. 85,645
3 Claims. (Cl. 310—258)

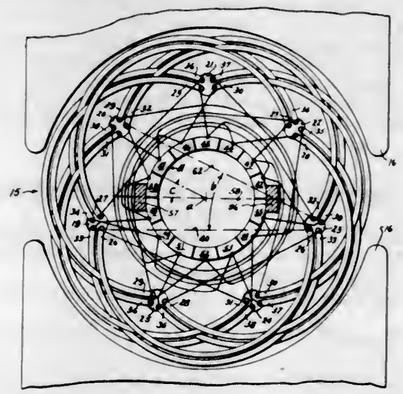
1. A dynamo-electric machine comprising a housing containing a stator and a rotor, said

housing having a longitudinally extending generally cylindrical portion terminating at each end in inwardly extending radial hub members, said stator being spaced from the longitudinally extending housing portion, bearing members mounted in axial alignment within said radially extending portions, said rotor being mounted within said bearing members and having a central shaft extending outside said housing, said stator including a stack of laminations of magnetic material and a distributed winding, said



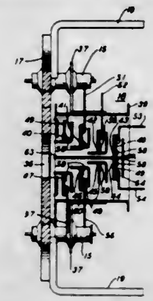
hub members extending axially inwardly and being in close contact with the end laminations of said stack and forming with said longitudinally extending portion a closed chamber, a coverplate attached to one of said radially extending housing sections, said coverplate having electrical terminals mounted thereon, electrical leads extending between said winding and said terminals and an envelope of solid impregnating compound between said housing and said stator and completely filling said chamber and supporting said stator within said housing.

2,668,926
COMMUTATED WOUND ARMATURE ASSEMBLY
Claus G. Johnson, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application June 7, 1952, Serial No. 292,360
4 Claims. (Cl. 310—265)



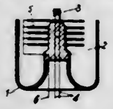
1. In a rotor assembly for a motor, the combination of, a core adapted to be mounted for rotation about its axis, a commutator ring mounted on said core with its center coinciding with the axis of the core and divided into a plurality of segments including first, second and third segments disposed end to end for successive engagement by a brush of the motor and fourth, fifth and sixth segments diametrically opposite said first, second and third segments respectively, said segments being of equal arcuate length and insulated from each other, a first pair of coils wound on said core to lie in planes parallel to said axis and to each other, the terminals of one coil being connected respectively to said first and second segments and the terminals of the other coil being connected to said fourth and fifth segments, and a second pair of coils wound on said core to lie in planes parallel to said axis and to each other with one coil connected to said second and third segments and the other coil connected to said fifth and sixth segments, the angle between the planes of said first pair of coils and the planes of said second pair of coils being equal to the angle subtending the arc of a segment.

2,668,927
ELECTRON DISCHARGE DEVICE
Herbert C. Jonas, Summit, and Raymond W. Sears, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 20, 1951, Serial No. 257,366
18 Claims. (Cl. 313—73)



1. A target assembly for an electron discharge device comprising an outer shield member, a plurality of targets in said shield member and arranged therein in staggered parallel planes forming a substantially overlapping array, shield means positioned between each of said targets and the adjacent targets, said shield means together with said outer shield member substantially encompassing each of said targets, and lead means associated with each of said targets and extending out of said outer shield member.

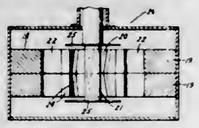
2,668,928
ELECTRODE MOUNTING FOR ELECTRICAL DISCHARGE LAMPS, AND PARTICULARLY FOR DISCHARGE LAMPS WITH FLUORESCENT SCREENS
Roger François Desire Navarre (dit Malherbe), Paris, France, assignor to Societe Anonyme dite: Ateliers de Constructions Electriques de Charleroi, Brussels, Belgium, a corporation of Belgium
Application May 11, 1950, Serial No. 161,368
Claims priority, application France May 21, 1949
4 Claims. (Cl. 313—198)



1. An electrode mounting for electrical discharge lamps comprising principal and auxiliary electrodes and particularly for fluorescent lamps which are started by means of ionizing auxiliary electrical discharges which heat the principal

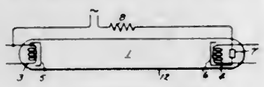
electrodes, wherein (*a*) the auxiliary electrode is constituted of a metal of a low ionization potential, (*b*) the density of the surface current of the auxiliary electrode is of the order of 0.0005 to 0.001 ampere per square centimeter; (*c*) the auxiliary electrode is located at the side opposite to the principal electrical discharge path with respect to the principal electrode, and (*d*) the discharges between the principal electrode and the auxiliary electrode are of the "opposed discharge" type.

2,668,929
MAGNETRON
Elmer D. McArthur, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 3, 1952, Serial No. 280,245
6 Claims. (Cl. 315—40)



1. A magnetron anode structure comprising a plurality of anode segments of given length defining a cylindrical space charge chamber with adjacent edges of adjacent segments defining chevron-shaped interaction gaps.

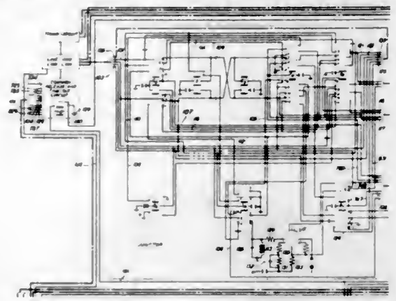
2,668,930
PROTECTIVE SYSTEM
Chauncey G. Suits, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 18, 1950, Serial No. 190,692
4 Claims. (Cl. 315—52)



1. A gaseous discharge device comprising an envelope defining a space partially filled with a gaseous atmosphere, a cathode disposed within said envelope and exposed to said gaseous atmosphere, said cathode being adapted to emit electrons when heated and to initiate a discharge within said envelope, and a negative temperature-resistance coefficient resistor supported within said envelope closely adjacent said cathode in heat-transferring relationship therewith whereby heat can be transferred directly from said cathode to said resistor to vary the temperature of said resistor in accordance with the temperature variations of said cathode.

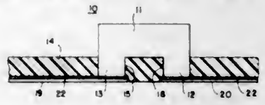
2,668,931
ELECTRONIC REGISTER FOR TELEPHONE SWITCHING SYSTEMS
Nathan I. Hall, West Los Angeles, Calif., and George Hecht, Astoria, and Charles D. Koechling, Floral Park, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 20, 1949, Serial No. 134,107
26 Claims. (Cl. 315—163)

1. In a counting chain, a plurality of gaseous discharge devices each having an anode, a cathode, and a control electrode, and a resistance-capacitance network connecting the cathode of



each of said devices to the control electrode of the next succeeding one of said devices.

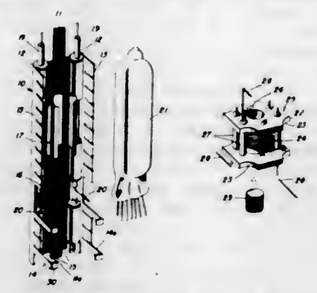
2,668,932
MOLDED RESISTANCE DEVICE
Waldo H. Kliever, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 29, 1950, Serial No. 171,143
3 Claims. (Cl. 317—101)



1. In combination; an electrical panel of insulating material and a resistance device secured thereto, said panel having apertures therethrough, said panel also having a printed circuit on one side of the panel extending from the apertures, said resistance device being molded as a homogeneous U-shaped unit having a body with a flat under surface disposed snugly against said panel on the side of said panel opposite from the side on which the printed circuit is disposed and integral leg portions homogeneous therewith, said leg portions being parallel to each other and each having substantially the same cross-sectional area as said apertures and extending through said apertures and connected to said printed circuit, said leg portions forming a substantial part of the resistance of said resistance device.

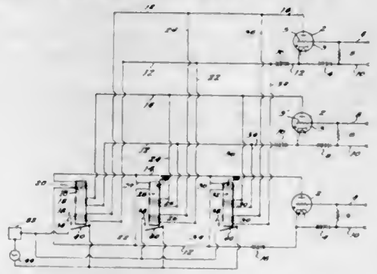
2,668,933
MINIATURE ELECTRON TUBE STAGE ASSEMBLY
Gustave Shapiro, Washington, D. C., assignor to the United States of America as represented by the Secretary of the Navy
Application May 25, 1951, Serial No. 228,345
7 Claims. (Cl. 317—101)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A mounting, shielding, and heat conducting member for a subminiature tube and electrical element single stage circuit comprising a three sided, elongate chassis of sheet metal, having a substantially U-shaped cross section, the sides of the chassis transversely along the upper part being regularly slit to provide electrical grounding fingers and heat conducting fins while along the lower part being irregularly slit to provide holding means for subminiature electrical components, the chassis side junctions in cross section being rounded and extending outwardly from the sides to provide semicylindrical spaces for longitudinally housing subminiature tubular electrical elements, and a longitudinal holding means provided within the chassis enclosure for removably fastening a subminiature electron tube,



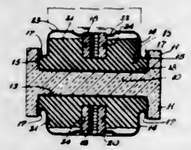
whereby the volume enclosure formed by the three sided chassis body substantially encircles all the stage components.

2,668,934
RELAY SYSTEM
Leonard G. Nierman, Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application October 31, 1946, Serial No. 706,824
3 Claims. (Cl. 317—137)



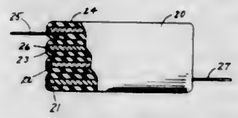
3. A condition responsive device comprising at least three electrical circuits, at least three switching devices having switch contacts connected in parallel and adapted to control an electrical circuit, each device being connected in all of the electrical circuits and being actuated by energization of more than one and less than all of said circuits, and condition responsive means connected in series with each of the electrical circuits, each of said electrical circuits being energized by the condition responsive means connected therein in response to the occurrence of the condition.

2,668,935
CAPACITOR CONSTRUCTION
William Dubilier, New Rochelle, N. Y., assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware
Application January 12, 1949, Serial No. 70,525
7 Claims. (Cl. 317—242)



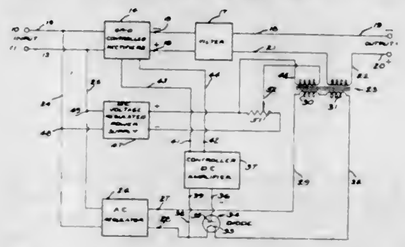
1. A capacitor assembly comprising a ceramic body portion formed by a disc having lateral cylindrical flanges on the opposite sides thereof, said disc shaped to provide electrode receiving surfaces on the opposite sides thereof separated by a substantially constant thickness of ceramic, metallic electrodes disposed on each of said electrode receiving surfaces and extending on to the adjacent contiguous surfaces of said lateral cylindrical flanges, and terminal members positioned within said lateral cylindrical flanges remote from said metallic electrodes disposed on said disc, the portions of said terminal members disposed within said cylindrical flanges being shaped to provide a plurality of outwardly and inwardly projecting resilient teeth, said outwardly projecting teeth disposed in compressive engagement with the portions of said metallic electrodes disposed on said contiguous surfaces of said lateral cylindrical flanges at locations remote from the portions of the metallic electrodes disposed on said disc portion.

2,668,936
ELECTRICAL CONDENSER
Preston Robinson, Williamstown, Mass., assignor to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts
Application May 26, 1948, Serial No. 29,301
8 Claims. (Cl. 317—258)



1. An electrostatic condenser of high volumetric efficiency comprising electrode foils of opposite polarity, each electrode having a thickness of less than 0.0005 inch, said foil surfaces being metal oxide-free and sandwiched between layers less than 0.005 inch thick of dielectric material, and said foils being superimposed substantially exactly over each other so that their edges are adjacent, at least one of the foils being of film-forming metal and having on its adjacent edges an in situ electrolytically-formed oxide of said film-forming metal.

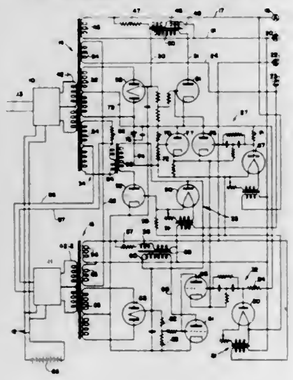
2,668,937
CURRENT REGULATOR
Adolph Bunblasky, New Canaan, and William H. Henrich, Norwalk, Conn., assignors to Sorensen & Company, Inc., Stamford, Conn., a corporation of Connecticut
Application November 19, 1951, Serial No. 256,992
7 Claims. (Cl. 321—18)



7. A current regulator adapted to maintain a direct current substantially constant within predetermined limits, said regulator comprising an alternating current input circuit, grid controlled rectifying means connected to said input circuit, said rectifying means being adapted to

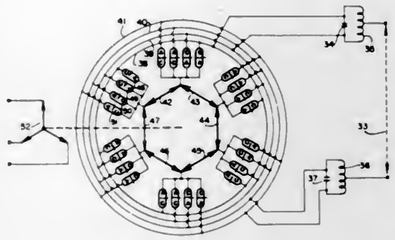
convert the alternating current input to direct current, a filter circuit connected to the output of said rectifying means, an output circuit from said filter means, a saturable core reactor having at least two direct current windings and an alternating current winding, one of said direct current windings being connected in series with said output circuit, a diode vacuum tube having a plate and a filament, a source of direct current potential adapted to provide plate potential to said diode, a potentiometer connected across said potential source, one side of said potentiometer being connected to one side of the other of said direct current windings, the other side of said winding being connected to the movable arm of said potentiometer, whereby the amount of current flowing through said coil may be controlled by the positioning of said movable arm to bias said reactor to predetermine the magnitude of the output current from said regulator, a connection between one side of said filament and one side of said alternating current winding whereby said filament is in series with said winding, means for applying at least a portion of the alternating current from said input circuit to said serially connected filament and alternating current winding, whereby a change in the output current through said direct current winding alters the impedance of the alternating current winding thereby altering the current through said filament, altering the impedance of said diode and altering the voltage developed at the plate of said diode, means for amplifying the change in voltage at said plate, and means for applying said amplified voltage to the grids of said grid controlled rectifying means to bias said rectifying means and restore the direct current output to said predetermined magnitude.

2,668,938
INVERTER FOR THREE-PHASE SYSTEM
William H. Henrich, East Norwalk, Conn., assignor to Sorensen & Company, Inc., Stamford, Conn., a corporation of Connecticut
Application February 26, 1952, Serial No. 273,491
5 Claims. (Cl. 321—19)



1. A three phase inverter circuit controlled by a single phase alternating current supply for converting direct current power into a three phase system comprising, a first inverter circuit for converting direct current into alternating current, said first inverter circuit controlled in frequency and phase by the single phase supply and delivering its power to a first transformer having a secondary winding connected to the first phase terminals of the three phase system, a second inverter circuit for converting direct current into alternating current, said second inverter circuit controlled in frequency and phase by an alternating voltage derived from a phase changing circuit which shifts the voltage phase 120 degrees and is connected to another secondary winding in the first transformer, the output of the second inverter circuit connected to a second transformer having a secondary winding connected to the second phase terminals of the three-phase system, a series circuit including a secondary winding on the first transformer and a secondary winding on the second transformer, each of which produces a voltage equal in magnitude to the first and second phases but of opposite polarity, said series circuit connected to the third phase terminals of the three phase system, a regulator system for controlling the voltage of the first and second phases to maintain them equal to each other, and a regulator for controlling the phase angle between the first and second phases to maintain the third voltage equal to the voltages of the other two phases.

2,668,939
COMMUTATION OF DISCHARGE TUBES AND PARTICULARLY OF RECTIFIERS AND INVERTERS
Pierre Marie Gabriel Toulon, Neuilly-sur-Seine, France, assignor, by direct and mesne assignments, of seventy-five per cent to Products & Licensing Corporation, New York, N. Y., a corporation of Delaware, and twenty-five per cent to Nelson Moore and William D. Hall, as joint tenants
Application February 29, 1948, Serial No. 12,195
Claims priority, application France August 8, 1941
9 Claims. (Cl. 321—36)

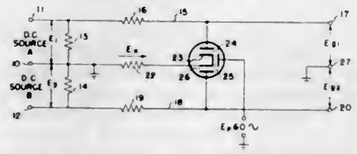


1. In a system for the generation of alternating current at frequency F which is a multiple of the frequency f of a supply network, by means of gaseous conduction tubes having control electrodes, the combination comprising, a first network supplying voltage at frequency f, a multiphase network having an even number of phases equal to the product of two integers, means for supplying said multiphase network with current from said first network at frequency f, means for supplying to each of the phases of said multiphase network alternating voltage at frequency F, means for connecting in series with each phase of said first network one of said gaseous conduction tubes having a control electrode, means for applying to the control electrode of each of said last mentioned tubes a voltage at frequency f which is de-phased from the anode voltage of that tube sufficiently to assure that firing of that tube will occur during times equal to or less than

$$\frac{1}{2F}$$

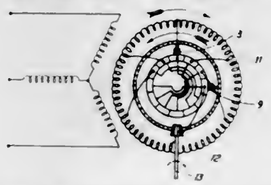
seconds.

2,668,940
CONVERTER
Joseph T. McNaney, San Diego, Calif., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Application January 31, 1950, Serial No. 141,429
14 Claims. (Cl. 321—44)



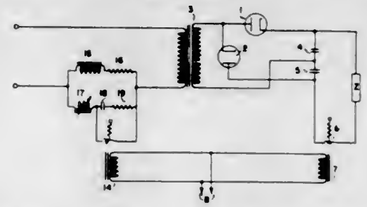
4. Means for generating an alternating current having an amplitude which is a function of a difference in a characteristic common to a pair of electric currents; said means comprising a pair of circuits each including a source of a respective one of said currents, and an impedance element having a high value of impedance, said values being equal, means forming a conductive return path between each of said elements and the source of its respective circuit, the last named means comprising an electron discharge device the space discharge space of which forms a part of said conductive return path, impedance means common to both of said return paths and connected between an electrode of each of said space discharge devices and said sources, said impedance means having a low value of impedance, a source of cyclically varying voltage and means applying said voltage across the space discharge regions of said electron discharge devices, said applying means being unilaterally conductive, and means coupled to said circuits at said elements and differentially combining the alternating current energy therein.

2,668,941
REVERSIBLE ELECTROMAGNETIC MACHINE
Elie Granat, Paris, France, assignor to Etablissements Saint Chamond-Granat, Paris, France, a corporation of France
Application July 17, 1951, Serial No. 237,083
Claims priority, application France May 4, 1951
8 Claims. (Cl. 322—61)



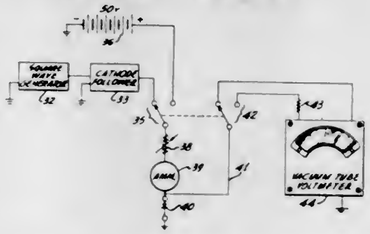
1. Reversible electromagnetic machine called "polydyne" because of its ability to convert variously as required, a feeding current into an outgoing current different from the former by its frequency, thereby characterized that it comprises three basic parts of which some operate controllably as required and each independently of the others, the said three parts being: a stator-inductor fed with a suitable current and providing a rotating field of fixed magnitude inside the "polydyne," an armature-rotor rotatable in the said rotating field at any angular speed desired, carrying a winding regularly divided into "n" successive winding parts electrically connected each to the next and having each the same number of turns, and a commutator fixed on the armature rotor and having "pn" segments ("p" being a whole number without decimals greater than 1), each successive point of junction of two successive winding parts being connected respectively and in the same order to successive segments of the commutator, each of those segments being in turn electrically connected to a segment which holds on the commutator a rank superior by "n" or a multiple of "n," to its own rank, and a set of brushes rotatable around the commutator at any selected angular speed.

2,668,942
POWER SUPPLY VOLTAGE REGULATOR
Arthur A. Varela and Robert A. Herring, Jr., Washington, D. C.
Application August 6, 1945, Serial No. 609,297
1 Claim. (Cl. 323—61)
(Granted under Title 35, U. S. Code (1952), sec. 266)



In a high voltage power supply system for operating under intermittent loading having a transformer with primary and secondary circuits, means for controlling the voltage on the secondary circuit comprising an anti-resonant network in the primary circuit having two parallel arms one comprised of an inductance and a damping resistance in series and the other comprised of a variable inductance a capacity and a resistance in series, and means for shunting out only the capacity and resistance from said last mentioned arm, whereby transients in the transformer primary are avoided upon operation of the said shunting means.

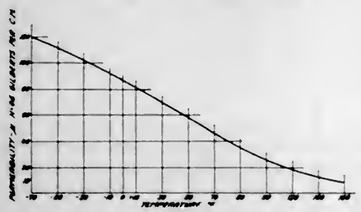
2,668,943
DYNAMIC DIODE TESTER
Bernard T. Wilson, Los Angeles, Calif., assignor, by mesne assignments, to Computer Research Corporation of California, a corporation of Delaware
Application February 16, 1951, Serial No. 211,241
6 Claims. (Cl. 324—57)



6. A circuit for measuring the variation in forward resistance of a rectifier on application of

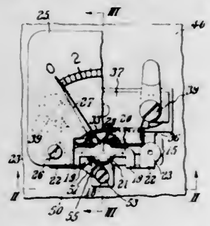
a voltage having a steep wavefront, comprising: a first source of power providing a voltage having a recurring waveform with a steep wavefront from a low to high voltage level; a second source of power providing a D. C. voltage whose value has a defined relationship with respect to the average value of the voltage of said first source of power; conductor means for establishing a connection to said rectifier; a series circuit including a resistor and said conductor means; a first switching means for successively applying said first and second voltage sources to said series circuit for causing current to flow through said rectifier in a forward direction; a voltmeter adapted to measure the average voltage across said rectifier; and a second switching means interconnected with said first switching means and operable to increase the scale range of said voltmeter in accordance with said defined relationship, whereby the reading on said voltmeter remains substantially constant on operation of said switching means when said rectifier has a favorable dynamic characteristic.

2,668,944
TEMPERATURE COMPENSATOR ALLOY
Raymond E. Schwyn and Ralph H. Mitchel, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 28, 1951, Serial No. 263,788
7 Claims. (Cl. 324—70)



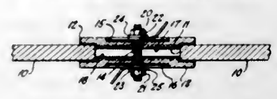
1. A temperature-responsive compensator for magnetic measuring instruments, said compensator formed from an alloy containing 29.25% to 31.5% nickel, 0.3% to 2.9% chromium, silicon not in excess of 0.5%, manganese not in excess of 1%, and the balance substantially all iron.

2,668,945
ELECTRICAL MEASURING INSTRUMENT WITH PERMANENT MAGNET RESTORING MEANS
William E. Pfeffer, Perkasie, Pa., assignor to Paul Mood, Lester Void, and William E. Pfeffer, trading under the name of The Electro-Mechanical Instrument Company, Perkasie, Pa., copartners
Application April 25, 1950, Serial No. 157,916
4 Claims. (Cl. 324—146)



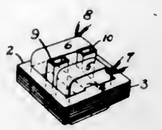
1. In an electrical measuring instrument, a pointer carrying arbor; a frame affording journal support for opposite ends of the arbor; a permanent disk magnet on the arbor; a hollow coil, into which the arbor magnet projects endwise, stationarily supported by the frame; a permanent restoring magnet fashioned from flat metallic strip material, one pole end thereof being affixed to the frame and the other pole end thereof being bent outward relative to the frame and extending into proximate relation to one side face of the arbor magnet; and a second permanent disk magnet on the arbor beyond the coil, spaced from the other side face of the first mentioned arbor magnet with its poles oppositely arranged relative to those of said first mentioned arbor magnet.

2,668,946
ELECTRICAL CONDENSER
Arthur Edward Charles Bennett, Kenton, England, assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware
Application January 30, 1951, Serial No. 208,454
6 Claims. (Cl. 333—79)



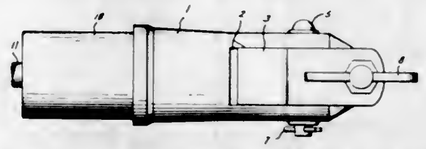
1. An electrical connection through a conducting wall comprising a conductor spaced from and passing through an aperture in said wall, a pair of apertured rigid insulating members provided on both sides with opposed metallic coatings, said members encircling said conductor and engaging the opposite sides of said wall adjacent to said aperture, and means free from overlap with said wall for clamping said members against said wall by said conductor, the metallic coatings on the side of said members away from said wall being in electrical contact with said conductor and the opposite metallic coatings being in electrical contact with said wall, to provide a pair of by-pass capacities between said conductor and said wall determined solely by said metallized insulating members.

2,668,947
CONVERTIBLE TRANSFORMER
Henry R. Stewart, Thornhill, Ontario, Canada, assignor to Allanson Armature Manufacturing Company, Limited, Toronto, Ontario, Canada, a body corporate of Canada
Application February 16, 1950, Serial No. 144,416
3 Claims. (Cl. 336—90)



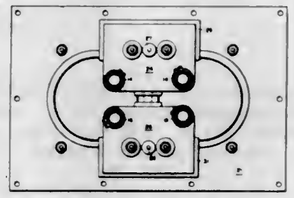
3. A transformer convertible for use with one primary frequency to use with a different primary frequency comprising, the assembly of a magnetic core having spaced parallel core legs, a primary and a secondary winding wound about one of said core legs in axially spaced relation from each other, a hollow elongated core guide open at each end disposed in space between said windings to provide access therebetween to the space between said core legs, a housing enclosing the assembly and having an opening aligned with an open end of the hollow core guide, an elongated magnetic core shunt having a dimension transverse to its elongated axis sufficient to provide a self-supporting snug fit within said hollow core guide, said core shunt adapted to be positioned through the hollow core guide into the space between the core legs for operation of the transformer at one primary frequency, and means providing external access through the aligned housing opening and the hollow core guide to enable removal of the core shunt through said guide and housing for converting the transformer to use at a different primary frequency.

2,668,948
CONNECTING MEANS FOR ELECTRICAL CONDUCTORS
Leonard P. Chaney, Houston, Tex.
Application April 27, 1953, Serial No. 351,250
10 Claims. (Cl. 339—74)



1. In combination with an electrical conductor, connecting means comprising a tubular body having a longitudinal slot formed in the wall thereof adjacent one end, a jaw disposed within the slot and pivotally connected to the body, a sleeve connected to one end of the conductor and disposed within the end of the body opposite the jaw, and a cam member connected to the inner end of the sleeve, the sleeve and the cam member being movable longitudinally within the body and the cam member engaging the jaw whereby it is normally maintained in its closed position when the sleeve and the cam member are advanced to their innermost positions.

2,668,949
TRANSMITTING TUBE SOCKET
Rudolf Leopold, Oakland, and Joseph R. Casamento, West New York, N. J., assignors to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application December 31, 1949, Serial No. 136,306
1 Claim. (Cl. 339—194)

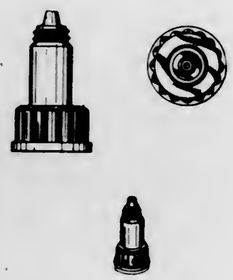


A socket for a pair of high frequency transmitting tubes, said socket comprising a flat plate having a pair of socket openings adapted to receive and make mechanical contact with an end portion of said tubes, a pair of flat plate members secured fixedly to said first named plate and parallel therewith with corners overlapping said socket openings, each of said flat plate members having holes therein at said corners, each of said holes having a pin connector mounted therein, each said pin connector being capable of limited radial movement in said holes a first radial flange extending outwardly from each said connector on one side of said plate member to prevent axial movement of said connector through said hole in one direction, a spring collar encircling said connector on the other side of said plate member, and a second radial flange axially spaced on said connector from said first flange, said collar interlocking with said second flange to restrict axial movement of said connector in the other direction, each said connector having a longitudinally slotted portion forming resilient fingers to grip said pins by spring tension.

DESIGNS

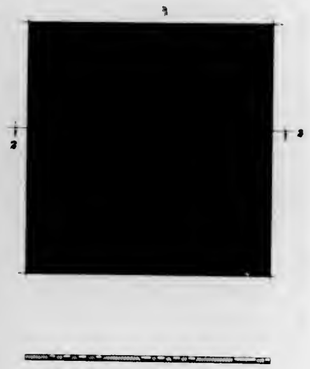
FEBRUARY 9, 1954

171,432
DISPENSING CAP FOR CONTAINERS
Cayetano Bernabó, Buenos Aires, Argentina
Application May 31, 1952, Serial No. 19,980
Term of patent 14 years
(Cl. D58—26)



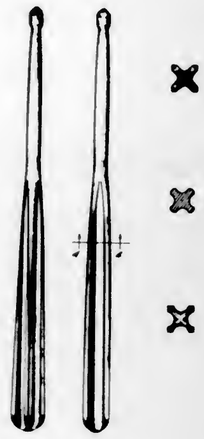
The ornamental design for a dispensing cap for containers, as shown.

171,433
QUILTED PLASTIC FABRIC
Abe S. Bloomberg, Swampscott, Mass., assignor to Bolta Products Sales, Inc., Lawrence, Mass.
Application September 28, 1953, Serial No. 26,964
Term of patent 14 years
(Cl. D87—3)



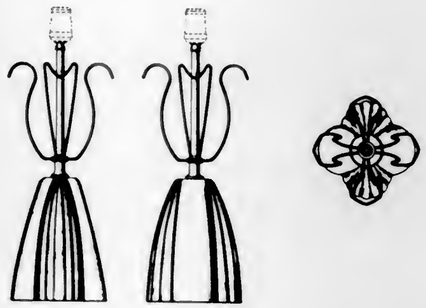
The ornamental design for a quilted plastic fabric, as shown.

171,434
DRINK STIRRER OR SIMILAR ARTICLE
Robert R. Borgfeldt, Chicago, Ill.
Application January 7, 1953, Serial No. 23,065
Term of patent 14 years
(Cl. D44—1)



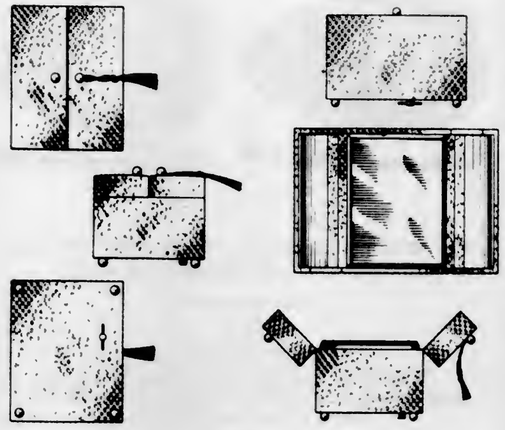
The ornamental design for a drink stirrer or similar article, substantially as shown.

171,435
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill., assignor to Bradley Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 22, 1953, Serial No. 26,075
Term of patent 3½ years
(Cl. D48—20)



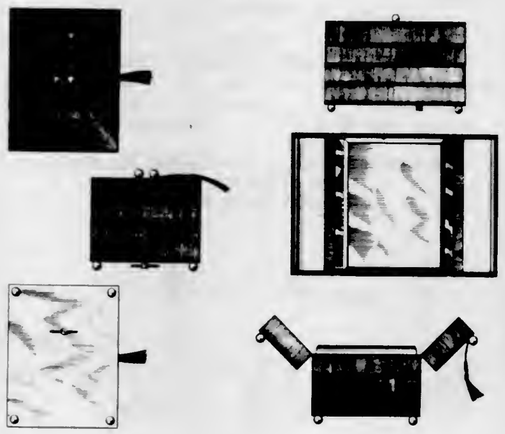
The ornamental design for an electric lamp base, substantially as shown and described.

171,436
COMBINED MUSIC BOX AND CONTAINER OR SIMILAR ARTICLE
Frederick M. Breen, Westchester, N. Y., assignor to Coty, Inc., New York, N. Y., a corporation of Delaware
Application October 1, 1953, Serial No. 27,024
Term of patent 14 years
(Cl. D86—9)



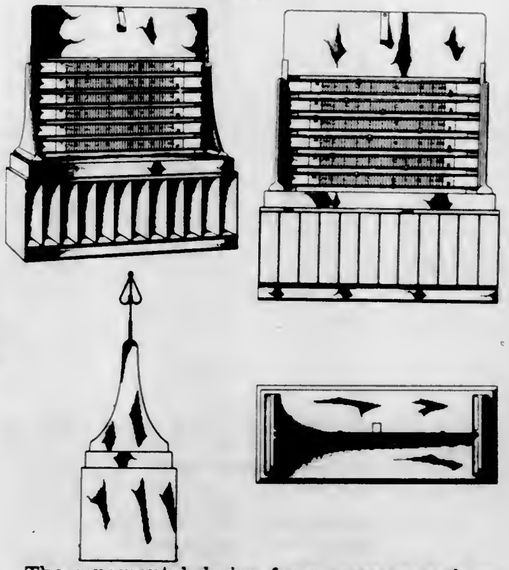
The ornamental design for a combined music box and container or similar article, substantially as shown.

171,437
COMBINED MUSIC BOX AND CONTAINER OR SIMILAR ARTICLE
Frederick M. Breen, Westchester, N. Y., assignor to Coty, Inc., New York, N. Y., a corporation of Delaware
Application October 1, 1953, Serial No. 27,025
Term of patent 14 years
(Cl. D86—9)



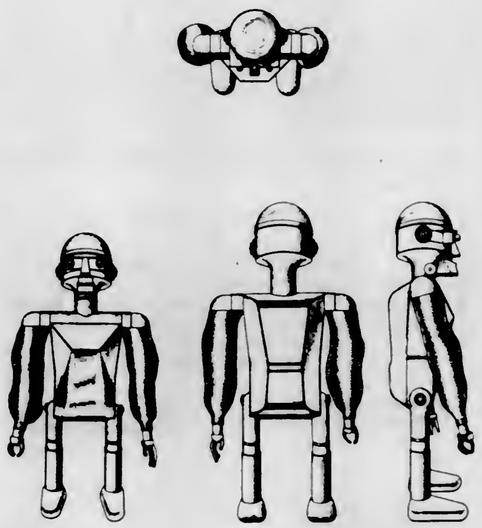
The ornamental design for a combined music box and container or similar article, substantially as shown.

171,438
MESSAGE RACK OR SIMILAR ARTICLE
Zenas A. Bump, Fresno, Calif.
Application February 24, 1953, Serial No. 23,750
Term of patent 14 years
(Cl. D80—11)



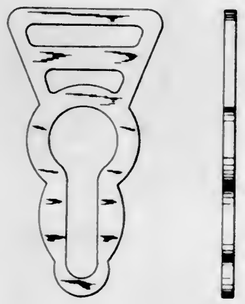
The ornamental design for a message rack or similar article, as shown and described.

171,439
ROBOT FIGURE OR SIMILAR ARTICLE
Harvey G. Chapman, Jr., Glendale, Calif.
Application October 20, 1953, Serial No. 27,251
Term of patent 14 years
(Cl. D34—4)



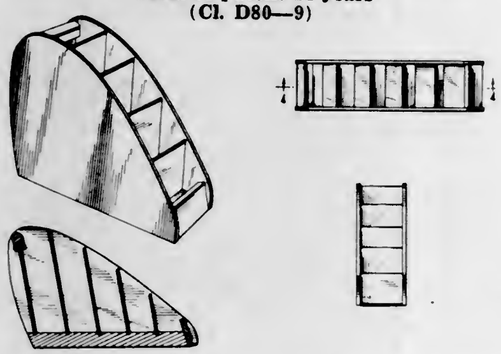
The ornamental design for a robot figure or similar article, as shown.

171,440
GARTER CLASP
John J. Chisholm, Worcester, Mass.
Application April 3, 1953, Serial No. 24,351
Term of patent 7 years
(Cl. D17—3)



The ornamental design for a garter clasp, as shown.

171,441
TAG DISPENSING DEVICE
Morris Cornick, Chicago, Ill.
Application February 9, 1953, Serial No. 23,488
Term of patent 14 years
(Cl. D80—9)



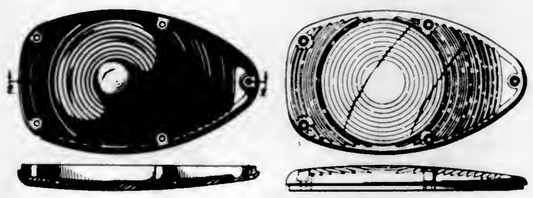
The ornamental design for a tag dispensing device, as shown.

171,442
ORNAMENTAL CHAIN
Erwin W. Deines, Cranston, R. I., assignor to Chain Craft Co., a corporation of Rhode Island
Application July 3, 1952, Serial No. 20,457
Term of patent 3½ years
(Cl. D45—16)



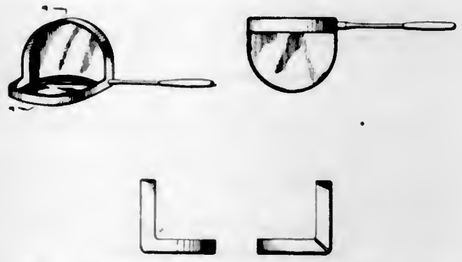
The ornamental design for an ornamental chain, substantially as shown.

171,443
COVER LENS FOR TURN SIGNAL DEVICES
William J. Flett, Drexel Hill, Pa., assignor to Turnsignal Corporation, Philadelphia, Pa., a corporation of New Jersey
Application June 10, 1953, Serial No. 25,427
Term of patent 7 years
(Cl. D48—32)



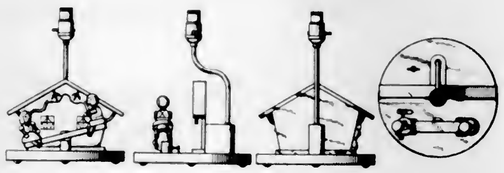
The ornamental design for a cover lens for turn signal devices, substantially as shown.

171,444
EGG FRIER
Robert L. Gervais, Coos Bay, Oreg.
Application August 25, 1953, Serial No. 26,577
Term of patent 14 years
(Cl. D44—1)



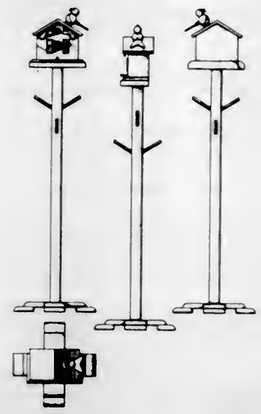
The ornamental design for an egg frier, as shown.

171,445
MUSIC BOX NURSERY LAMP
Robert Goldman and Roy R. Nemzer, South Hempstead, N. Y., assignors to Bo-Low Lamp Corp., Brooklyn, N. Y., a corporation of New York
Application June 15, 1953, Serial No. 25,495
Term of patent 7 years
(Cl. D48—20)



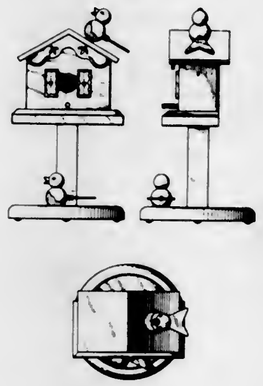
The ornamental design for a music box nursery lamp, as shown.

171,446
LAMP AND COSTUMER COMBINATION
Robert Goldman and Roy R. Nemzer, South Hempstead, N. Y., assignors to Bo-Low Lamp Corp., Brooklyn, N. Y., a corporation of New York
Application June 15, 1953, Serial No. 25,497
Term of patent 7 years
(Cl. D48—20)



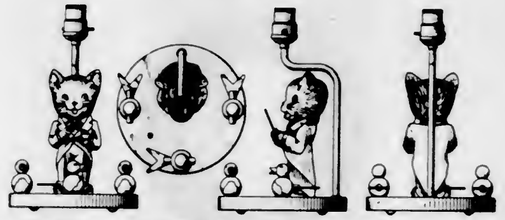
The ornamental design for a lamp and costumer combination, as shown.

171,447
MUSIC BOX NURSERY LAMP
Robert Goldman and Roy R. Nemzer, South Hempstead, N. Y., assignors to Bo-Low Lamp Corp., Brooklyn, N. Y., a corporation of New York
Application June 15, 1953, Serial No. 25,496
Term of patent 7 years
(Cl. D48—20)



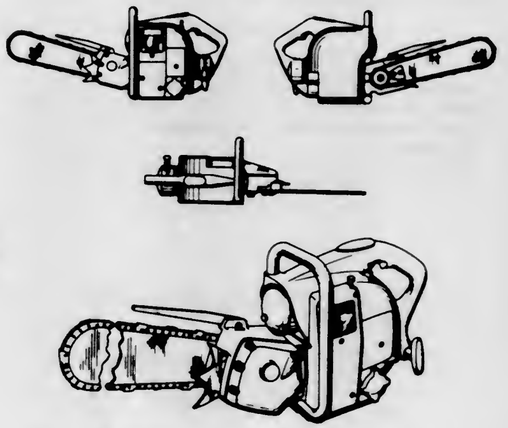
The ornamental design for a music box nursery lamp, as shown.

171,448
MUSIC BOX NURSERY LAMP
Robert Goldman and Roy R. Nemzer, South Hempstead, N. Y., assignors to Bo-Low Lamp Corp., Brooklyn, N. Y., a corporation of New York
Application June 23, 1953, Serial No. 25,618
Term of patent 7 years
(Cl. D48—20)



The ornamental design for a music box nursery lamp, as shown.

171,449
CHAIN SAW
Harry I. Hazzard, Inglewood, and Vincent C. Tyrrell, Redondo, Calif., assignors to McCulloch Motors Corporation, Los Angeles, Calif., a corporation of Wisconsin
Application March 17, 1953, Serial No. 24,062
Term of patent 14 years
(Cl. D93—3)



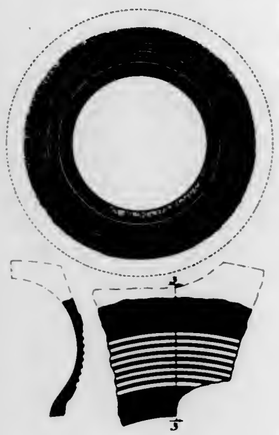
The ornamental design for a chain saw, as shown.

171,450
ELECTRIC MOTOR
Anthony G. Horvath and William H. Kuner, Dayton, and Robert L. Wolfe, Springfield, Ohio
Application September 26, 1951, Serial No. 16,751
Term of patent 14 years
(Cl. D26—5)



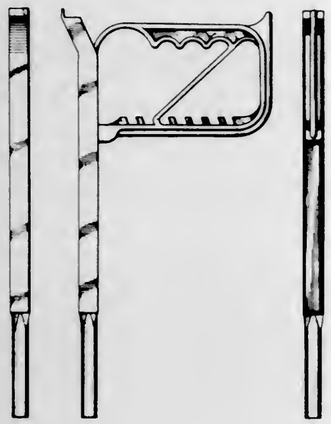
The ornamental design for an electric motor, substantially as shown.

171,451
PNEUMATIC TIRE
Herman T. Kraft, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application February 16, 1952, Serial No. 18,550
Term of patent 14 years
(Cl. D90—20)



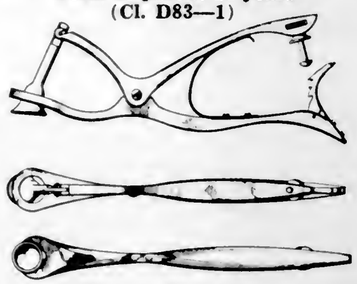
The ornamental design for a pneumatic tire, as shown and described.

171,452
CLOTHES HANGER
Murray B. Kramer, Chicago, Ill., assignor to Richlite Manufacturing Company, Chicago, Ill., a partnership
Application August 5, 1953, Serial No. 26,295
Term of patent 7 years
(Cl. D33—8)



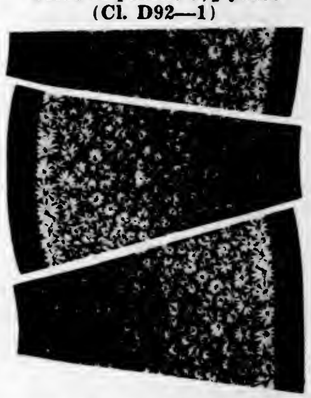
The ornamental design for a clothes hanger, substantially as shown.

171,453
CIRCUMCISING INSTRUMENT
Abraham Z. Krohn, Brooklyn, N. Y.
Application September 10, 1952, Serial No. 21,402
Term of patent 14 years
(Cl. D83—1)



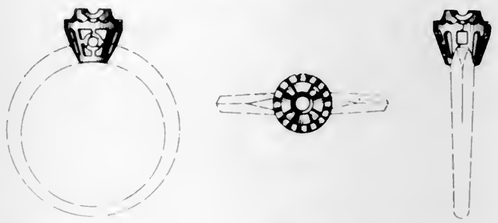
The ornamental design for a circumcising instrument, substantially as shown.

171,454
TEXTILE FABRIC OR SIMILAR ARTICLE
Jacques E. Maisch, New York, N. Y., assignor to Burlington Mills Corporation, Greensboro, N. C.
Application May 1, 1953, Serial No. 24,796
Term of patent 3½ years
(Cl. D92—1)



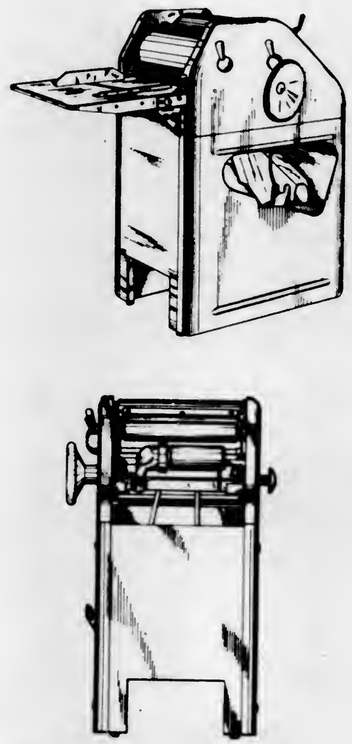
The ornamental design for a textile fabric or similar article, substantially as shown and described.

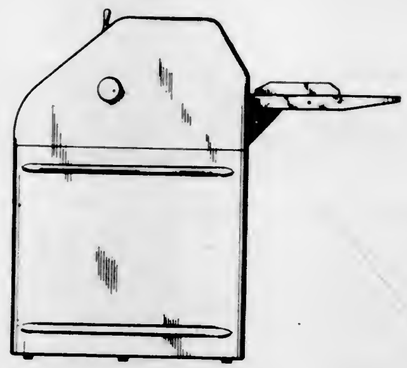
171,455
FINGER RING
Moe Manne, Hewlett, N. Y.
Application May 26, 1953, Serial No. 25,192
Term of patent 3½ years
(Cl. D45—10)



The ornamental design for a finger ring, substantially as shown and described.

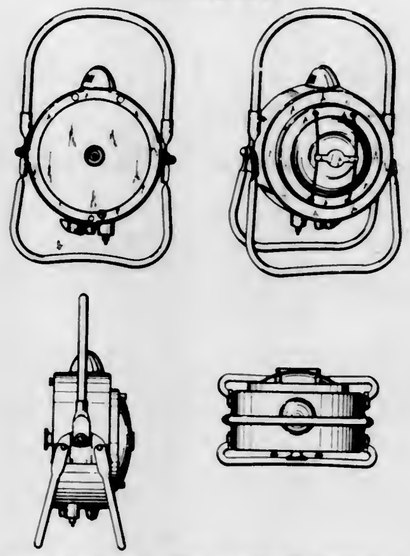
171,456
DUPLICATING MACHINE
Lester F. Mitchell, Shaker Heights, Ohio, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Application June 12, 1952, Serial No. 20,154
Term of patent 14 years
(Cl. D64—11)





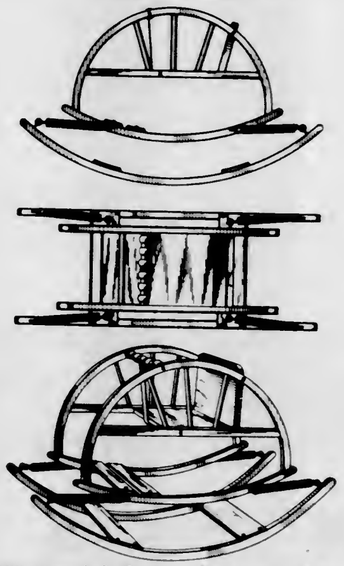
The ornamental design for a duplicating machine, as shown.

171,457
ELECTRIC LANTERN
Ralph T. Osman, Whitefish Bay, Wis.
Application March 4, 1953, Serial No. 23,881
Term of patent 14 years
(Cl. D48—24)



The ornamental design for an electric lantern, as shown.

171,458
CHILD'S ROCKING CHAIR OR SIMILAR ARTICLE
Leslie C. Peltier, Delphos, Ohio, assignor to The Delphos Bending Company, Delphos, Ohio, a corporation of Ohio
Application August 12, 1953, Serial No. 26,435
Term of patent 14 years
(Cl. D34—15)



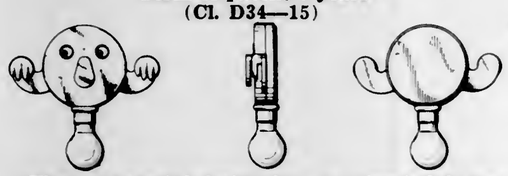
The ornamental design for a child's rocking chair or similar article, substantially as shown.

171,459
PENDANT SCARECROW FIGURE
James H. Petter, North Bergen, N. J.
Application June 2, 1953, Serial No. 25,295
Term of patent 3½ years
(Cl. D35—1)



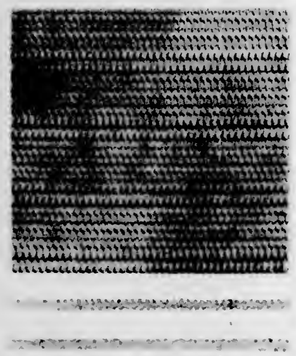
The ornamental design for a pendant scarecrow figure, as shown.

171,460
ANIMATED FIGURE TOY
Paul Reitzer, Sao Paulo, Brazil
Application May 11, 1953, Serial No. 24,934
Term of patent 7 years
(Cl. D34—15)



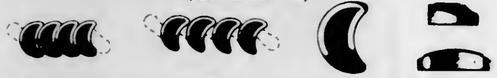
The ornamental design for an animated figure toy, as shown.

171,461
CARPET UNDERLAY RUBBER MAT
Edward Stanley Robbins, Killen, Ala., assignor to Robbins Tire and Rubber Company, Tuscumbia, Ala.
Application July 27, 1953, Serial No. 26,151
Term of patent 14 years
(Cl. D92—21)



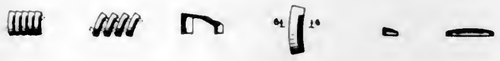
The ornamental design for a carpet underlay rubber mat, as shown.

171,462
EXPANSIBLE LINK CHAIN FOR A BRACELET OR THE LIKE
Emil Rodriguez, New York, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application November 22, 1952, Serial No. 22,408
Term of patent 7 years
(Cl. D45—4)



The ornamental design for an expansible link chain for a bracelet or the like, as shown.

171,463
EXPANSIBLE LINK CHAIN FOR A BRACELET OR THE LIKE
Emil Rodriguez, New York, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application April 17, 1953, Serial No. 24,549
Term of patent 7 years
(Cl. D45—4)



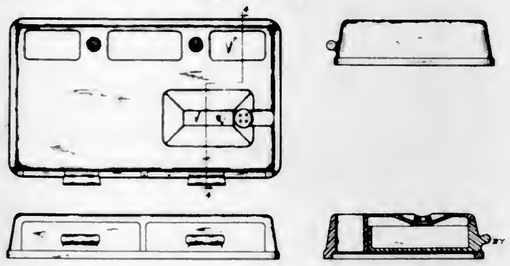
The ornamental design for an expansible link chain for a bracelet or the like, as shown.

171,464
COMBINED DOOR KNOCKER AND BELL
Sajjan Singh Sarna, New York, N. Y., assignor to S. S. Sarna, Inc., New York, N. Y., a corporation of New York
Application June 15, 1953, Serial No. 25,479
Term of patent 14 years
(Cl. D72—1)



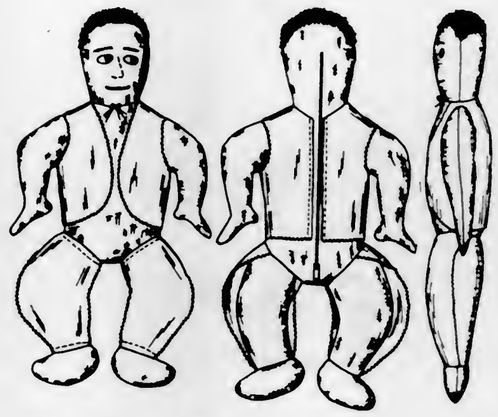
The ornamental design for a combined door knocker and bell, as shown.

171,465
COMBINED ASH TRAY AND RECEPTACLE FOR SMOKING MATERIALS
Frank J. Schroeder, Rochester, N. Y.
Application January 13, 1953, Serial No. 23,121
Term of patent 7 years
(Cl. D85—2)



The ornamental design for a combined ash tray and receptacle for smoking materials, substantially as shown.

171,466
COVER FOR A HOT-WATER BOTTLE
Frederick P. Schur, Arlington, Va.
Application May 25, 1953, Serial No. 25,178
Term of patent 3½ years
(Cl. D83—8)



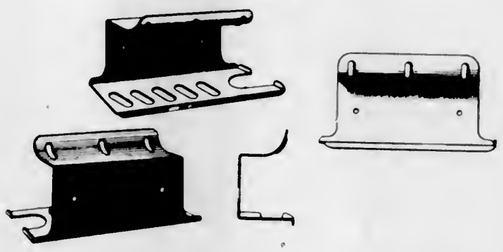
The ornamental design for a cover for a hot-water bottle, as shown.

171,467
BROOCH OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie, New York, N. Y., a partnership consisting of Marcel Boucher and Jeanne Boucher
Application July 3, 1953, Serial No. 25,793
Term of patent 3½ years
(Cl. D45—19)



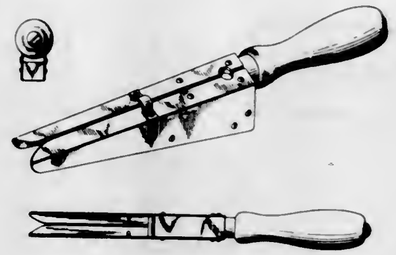
The ornamental design for a brooch or similar article, as shown.

171,468
COMBINED TOOTHPASTE, TOOTHBRUSH, AND RAZOR RACK
Sidney Simon, Los Angeles, Calif.
Application March 16, 1953, Serial No. 24,029
Term of patent 14 years
(Cl. D4—3)



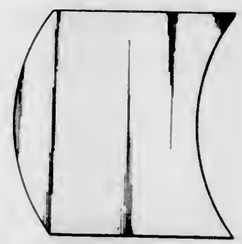
The ornamental design for a combined toothpaste, toothbrush and razor rack, as shown.

171,469
PIN AND NAIL REMOVING TOOL
Morris Stock, New York, N. Y.
Application July 2, 1953, Serial No. 25,768
Term of patent 14 years
(Cl. D54—13)



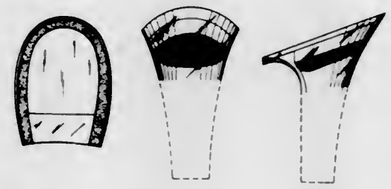
The ornamental design for a pin and nail removing tool, as shown.

171,470
TILE
Joseph M. Toohey, Affton, Mo.
Application July 11, 1951, Serial No. 15,819
Term of patent 14 years
(Cl. D18—2)



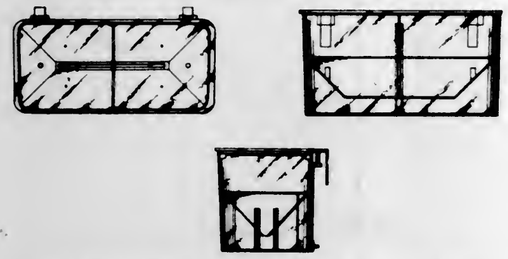
The ornamental design for a tile, substantially as shown.

171,471
SHOE HEEL
William J. Walsh, Lemay, Mo.
Application November 17, 1952, Serial No. 22,319
Term of patent 14 years
(Cl. D7—5)



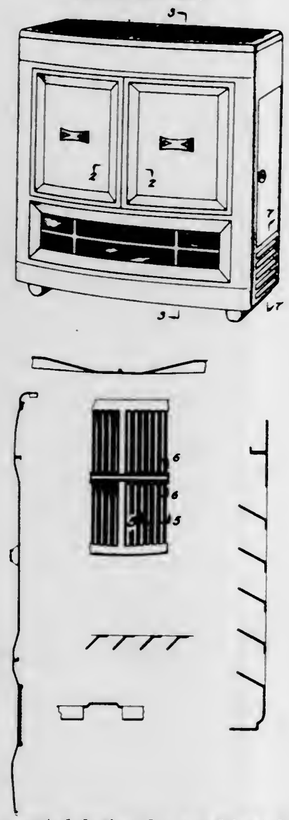
The ornamental design for a shoe heel, substantially as shown and described.

171,472
AQUARIUM BREEDING TRAP
Harding W. Willinger and Herbert N. Nestler, New York, N. Y.
Application February 11, 1953, Serial No. 23,558
Term of patent 14 years
(Cl. D91—2)



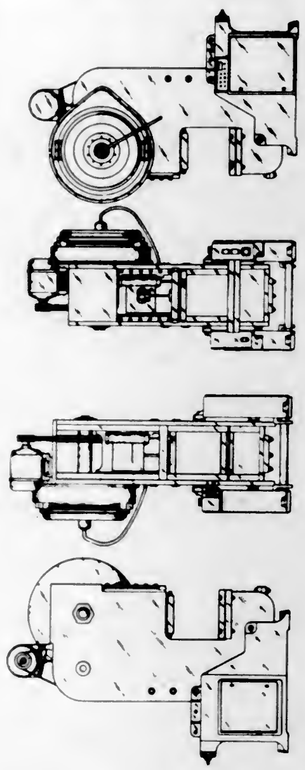
The ornamental design for an aquarium breeding trap, substantially as shown and described.

171,473
CABINET FOR A HEATER OR THE LIKE
Lawrence H. Wilson, Detroit, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application May 21, 1952, Serial No. 19,805
Term of patent 7 years
(Cl. D81—19)



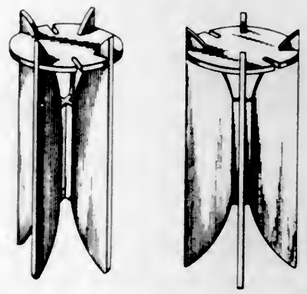
The ornamental design for a cabinet for a heater or the like, substantially as shown and described.

171,474
PRESS
Reuben E. Wissman, Minster, Ohio, assignor to The Minster Machine Company, Minster, Ohio, a corporation of Ohio
Application July 27, 1953, Serial No. 26,156
Term of patent 14 years
(Cl. D63—1)



The ornamental design for a press, substantially as shown.

171,475
COMBINATION STAND AND TABLE
Milton Ray Yarger, Morgantown, W. Va.
Application April 24, 1952, Serial No. 19,462
Term of patent 14 years
(Cl. D33—14)



The ornamental design for a combination stand and table, as shown.

February 16, 1954 Volume 679 Number 3

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce
SINCLAIR WEEKS, *Secretary*

U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business December 31, 1953

Total number of patent applications awaiting action, 107,792. Date of oldest new application, February 10, 1953; date of oldest amended application, February 18, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	4-2-53	4-2-53	1431
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	3-24-53	3-27-53	1313
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Compositions (part).	4-22-53	4-20-53	2060
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	4-8-53	4-1-53	1591
5. ROBINSON, C. W., Harvesters; Harrows and Diggers (part); Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates.	4-7-53	4-10-53	1423
6. SURLE, H., Natural Resins; Proteins; Heterocyclic; Amides; Amines; General Organic Processes	3-2 53	3-2-53	2191
7. GONSALVES, J. E., Optics; Photography (part)	3-10-53	3-10-53	1916
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	4-21-53	4-21-53	1447
9. BRANSON, J. H., Pumps: Fans; Turbines	4-1-53	4-1-53	1261
10. Abolished as of November 16, 1953. See Commissioner's Administrative Order No. 45.			
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching. Cutlery; Cleaning and Liquid Treatment of Solids.	4-15-53	4-13-53	1252
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches; Interrelated Clutch and Motor or Transmission Controls.	4-6-53	4-7-53	1868
13. BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Forging and Welding, Plastic Working, Drawing, Sawing, Milling, Planing, Turning.	3-18-53	3-18-53	1321
14. MANIAN, J. C., Metal Working (part)—e. g., Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes.	4-13-53	4-13-53	1529
15. BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass	4-6-53	4-6-53	1782
16. LOVEWELL, N. N., Television; Telephony; Recorders	3-2-53	3-2-53	1854
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	3-23-53	4-1-53	1518
18. KURZ, J. A., Power Plants; Speed Responsive Devices; Brakes	4-2-53	3-23-53	1401
19. PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners	3-6-53	3-4-53	1094
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking.	4-24-53	4-23-53	1227
21. MADER, R. C., Textiles	4-2-53	4-3-53	1283
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling.	4-20-53	4-16-53	1226
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	3-20-53	3-6-53	1093
24. DRACOPOULOS, P. T., (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	6-4-53	6-8-53	1095
25. NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus.	5-1-53	5-1-53	1439
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	4-3-53	4 7-53	2018
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	4-22-53	4-21-53	1283
28. BRAUNER, R. H., Steam and Internal Combustion Engines; Fluid Servo-Motors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes.	4-28-53	4-20-53	1449
29. HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers.	4-8-53	4-3-53	1362
30. BISHOFF, A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidostats; Illuminating Burners; Doors and Windows; Fluid Sprinkling, Spraying and Diffusing.	6-1-53	6-1-53	1545
31. HUTCHISON, E. W., Mineral Oils; Urea Adducts; Silicon Containing Carbon Compounds; Hydrogenation of Carbon Oxides; Partial Oxidation of Non-Aromatic Hydrocarbon Mixtures, Hydrocarbons, Halogenated Hydrocarbons.	3-17-53	3-12-53	1936
32. BERMAN, H., Gas and Liquid Carburetors; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.	4-27-53	4-27-53	1470
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	3-26-53	3-23-53	2043
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	3-13-53	3-10-53	1353
35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet; Kitchen and Table Articles	4-14-53	4-3-53	1504
36. McFADYEN, A. D., Measuring and Testing	4-9-53	4-8-53	1089
37. LEVY, M. L., Electricity—Switches, Welding, Heating	5-4-53	4-27-53	1876
38. MARMELSTEIN, N., Lignins; Azo; Carbohydrate; Carbocyclic or Acyclic Compounds (part), e. g., Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Hydroxy.	3-18-53	3-20-53	2121
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	5-1-53	5-1-53	1575
40. DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages.	5-4-53	5-5-53	2215

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	4-13-53	4-10-53	1811
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Connectors.	4-2-53	4-3-53	1765
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	3-11-53	3-16-53	1999
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	4-20-53	4-16-53	1277
46. O'LEARY, R. A., Abolished as of January 4, 1954. See Commissioner's Administrative Order No. 46 (O. G.).	3-26-53	3-26-53	1183
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	4-6-53	4-6-53	1599
48. BERNSTEIN, S., Electricity; Electrical Conversion Systems, Measuring and Testing (part), Ignitors, Adjustable Induction Devices.	3-12-53	3-16-53	1916
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	4-13-53	4-9-53	1451
50. BENGEL, W. G., Synthetic Resins; Rubber	5-18-53	5-18-53	2121
51. YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Duplex or Multiplex Radio Communication; Piezoelectric Crystal Devices; Music.	4-7-53	4-3-53	1598
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	5-6-53	5-6-53	1891
53. REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Metal Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.	4-3-53	4-6-53	1687
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits, Ray Energy Applications.	3-30-53	4-8-53	1940
55. KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors.	3-2-53	3-9-53	1701
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	5-4-53	5-4-53	1442
57. MILLER, A. B., (DURHAM, B. G., Acting), Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	4-27-53	4-16-53	1779
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	4-1-53	4-2-53	1389
59. HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	4-1-53	4-1-53	1562
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	5-4-53	5-28-53	955
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	4-14-53	4-20-53	1916
63. WINKELSTEIN, A. H., Foods and Beverages; Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part).	3-23-53	3-20-53	2030
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	4-2-53	4-2-53	1826
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometric Instruments; Automatic Weighers; Weighing Scales; Acoustics	4-14-53	4-20-53	1156
67. KRAFFT, C. F., Laminated Fabric; Photographic Processes and Products; Ornamentation; Paper Making.	4-30-53	4-10-53	1719
68. Abolished as of November 2, 1953. See Commissioner's Administrative Order No. 44.			
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Electrical Conductors, Insulators and Conduits.	4-3-53	4-3-53	1672
70. BREWRINK, J. L., Guns and Torpedoes; Explosive Charge Making; Electrical Directional and Distance Instruments; Radio Antennae; Radar; Actinide Compounds; Explosive Compositions; Mass Spectrometers.	2-10-53	2-18-53	3749
DESIGNS: A—BREHM, G. L., Industrial Arts	7-6-53	7-9-53	1279
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	8-5-53	9-11-53	925

Number of new applications received week ending January 1, 1954

PATENTS 1,345 DESIGNS 92 REISSUES 5 TOTAL 1,442

Total number of trade-mark applications awaiting action (including renewals and republications), 12,560. Date of oldest new application, August 1, 1953; date of oldest amended application, August 1, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	8-1-53	8-1-53	3041
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	8-1-53	8-1-53	3045
Renewals (All Classes)	10-16-53	11-25-53	488
Republications (All Classes)	10-26-53	12-1-53	213
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	8-3-53	8-3-53	2851
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	8-3-53	8-3-53	2922

DECISIONS IN PATENT AND TRADE-MARK CASES

United States Court of Appeals District of Columbia Circuit

GOLD SEAL v. SINCLAIR WEEKS, SECRETARY OF COMMERCE, AND ROBERT C. WATSON, COMMISSIONER OF PATENTS, AND S. C. JOHNSON & SON, INC.

No. 11631. Decided January 7, 1954

[— F.2d —; 100 USPQ 79]

SUITS UNDER 35 U. S. C. 145—TO OBTAIN REGISTRATION OF TRADE-MARK—PART OF COMPLAINT RELATING TO SECTION 2 (f) OF ACT OF 1946 NOT SUBJECT TO FINAL JUDGMENT.

Held that in a complaint under R. S. 4915 (now 35 U. S. C. A. 145) seeking adjudication authorizing the Commissioner to register a trade-mark, allegations seeking to bring the mark within section 2 (f) of the act of 1946 and allegations that the mark is not barred by section 2 (e) of the act do not state separate claims for relief, since the legal wrong sought to be remedied under each is the same, viz., wrongful refusal to register the mark; the claim for relief under section 2 (f) allegations is not the proper subject of a final judgment under Rule 54 (b) FRCP and the motion to dismiss the appeal from that judgment is granted.

APPEAL from the United States District Court for the District of Columbia.

MOTION TO DISMISS APPEAL GRANTED.

Edward B. Beale (*Maurice M. Moore*, of counsel) for Gold Seal.

Francis C. Browne, (*William E. Schuyler, Jr.* and *Andrew B. Beveridge*, of counsel) for S. C. Johnson & Son, Inc.

E. L. Reynolds, Solicitor, for Secretary of Commerce and Commissioner of Patents.

Before STEPHENS, *Chief Judge*, and WILBUR K. MILLER and PRETTYMAN, *Circuit Judges*.

STEPHENS, *Chief Judge*:

This is a motion by the appellee, S. C. Johnson & Son, Inc., hereafter referred to as Johnson & Son, to dismiss an appeal from a purported final judgment of the United States District Court for the District of Columbia entered purportedly, in accordance with 28 U. S. C. § 1291 (Supp. 1952) and Rule 54 (b) of the Federal Rules of Civil Procedure, as a final judgment upon one of a plurality of claims for relief. The judgment was entered in an action, filed by the appellant Gold Seal Company, hereafter referred to as Gold Seal, under Rev. Stat. § 4915, 35 U. S. C. § 63 (1946) (in its present form 66 Stat. 803 (1952), 35 U. S. C. A. § 145 (1952 Supp.)), and under 60 Stat. 435 (1946), 15 U. S. C. § 1071 (1946), seeking an adjudication authorizing the Commissioner of Patents to register a trade-mark. The motion to dismiss the appeal is upon the ground that the judgment does not finally adjudicate one of a plurality of claims for relief within the meaning of Rule 54 (b) and is not a final decision within the meaning of that phrase as used in Title 28, section 1291, *i. e.* is not a final disposition of the entire action. The appellant contends that the judgment satisfies the requirements of 28 U. S. C. § 1291 and Rule 54 (b). The dispute in essence reduces itself to the question whether or not the action presents a plurality of claims upon one of which, as a distinct claim, the judgment sought to be reviewed was entered. For the reasons set forth below, we conclude that the appeal must be dismissed.

I

An understanding of the question presented requires an acquaintanceship with certain of the provisions of the Trade-Mark Act of July 5, 1946, 60 Stat. 427, hereafter sometimes referred to as the act, and with the pleadings and proceedings in the District Court which led to the entry of the judgment in question. The pertinent provisions of the act are set forth in the margin.[1] Primarily involved are the provisions of section 2 (e) (1), which, when read in connection with the introductory language of that section, forbids refusal of registration of a trade-mark by which the goods of the applicant may be distinguished from the goods of others unless it, when applied to the goods of the applicant, is merely descriptive or is deceptively misdescriptive of them, and the provisions of section 2 (f) providing that, except as expressly excluded in paragraphs (a), (b), (c), and (d) of the section, nothing therein shall prevent the registration of a mark used by the applicant which has become distinctive of his goods in commerce.

The complaint of Gold Seal filed in the District Court alleges, so far as here pertinent, in substance and effect that:

Gold Seal, a corporation of North Dakota, is the sole owner of a trade-mark, "Glass Wax," acquired [at a date

Footnotes at end of decision.

Vol. 679 • No. 3 Tuesday, February 16, 1954 Price $30.00 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $30.00 per annum, foreign mailing $8.50 additional; single numbers, 75 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

The TRADE-MARK SUPPLEMENT to the OFFICIAL GAZETTE, issued weekly, subscription price, $19.00 per annum; single copies, 45 cents each. DECISION LEAFLETS, subscription price, $3.75 per year; single copies, 10 cents each.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

not made certain in the complaint] from certain predecessors in interest. Such predecessors and Gold Seal prior to September 1945, and Gold Seal alone thereafter, offered for sale and sold in commerce a certain glass cleaner and polish under the trade-mark described, the same having been adopted as an "arbitrary, fanciful, and distinctive" word combination or symbol to designate said glass cleaner and polish. Gold Seal and its predecessors widely advertised and promoted the sale of the glass cleaner and polish under said trade-mark and the same is associated with Gold Seal's goods and means, and is understood to mean, that the goods described come from Gold Seal; and the goods so sold under said trade-mark have acquired a wide and enviable reputation. The trade-mark "Glass Wax" is "arbitrary, fanciful, and distinctive" of Gold Seal's goods in commerce, has a secondary meaning in the trade, and means only Gold Seal's goods and distinguishes the same from the goods of others—all within the meaning of section 2 of the act. The mark is not such a mark as is precluded from registration on the Principal Register by any provision of the act.

In 1947 (December 16) Gold Seal filed in the Patent Office an application for registration of the trade-mark "Glass Wax" and in 1948 (February 16) filed a "Petition to Make Case Special" informing the Commissioner of Patents that Gold Seal was seeking registration of "Glass Wax" under section 2 (f) of the act. Thereafter "Glass Wax" was held registrable by the Patent Office and was published in the OFFICIAL GAZETTE. Johnson & Son then filed a notice of opposition, and opposition No. 27543 was instituted. Gold Seal filed an answer and counterclaim in the opposition, and proceedings were taken in the Patent Office including the taking of depositions by Gold Seal and by Johnson & Son. Thereafter the Examiner of Interferences ruled as follows:

". . . it is the Examiner's opinion that the opposer was entitled to institute this proceeding, and that the opposition must be sustained for the reason that the application now before the Examiner seeks registration of the word 'GLASS WAX' as a technical trade-mark,[2] without having been presented under section 2 (f) of the act of 1946, under which section alone, in the Examiner's opinion, applicant's mark might qualify for the Principal Register. Accordingly, the opposition is hereby sustained and it is further adjudged that the applicant is not entitled to the registration of the word 'GLASS WAX' as sought in the present application."

Finally the Commissioner of Patents, hereafter referred to as the Commissioner, in the following terms, affirmed the decision of the Examiner of Interferences:

"Applicant is not precluded by the decision in this case from applying for registration under section 2 (f) of the act on a new application appropriately worded for this purpose, and the decision herein is without prejudice to consideration of registrability of the mark on such an application. The decision of the Examiner of Interferences sustaining the opposition is affirmed."

Pursuant to the described proceedings, the Commissioner and the Secretary of Commerce, hereafter referred to as the Secretary, refused to register the trade-mark "Glass Wax" and refused to issue to Gold Seal a Certificate of Registration.

The complaint contains also certain argumentative material which may be summarized as follows:

This decision of the Commissioner and the Secretary unlawfully denies to Gold Seal registration of the trade-mark "Glass Wax." The decision is erroneous in ruling that that trade-mark is not registrable in view of section 2 (e) of the act because if it contains wax it is descriptive and if it does not it is deceptively misdescriptive; and is erroneous in ruling that it is not registrable under section 2 (f) of the act because the application filed by Gold Seal can not be considered an application under section 2 (f); and is erroneous in ruling that the question of distinctiveness was therefore not in issue, and that nothing was presented to the Examiner to show a right to register the trade-mark on the basis of section 2 (f).

Upon the basis of the foregoing allegations and charges of error, the complaint prays for a decree by the District Court that Gold Seal is entitled to registration of "Glass Wax" as a trade-mark and to receive a Certificate of Registration therefor.

To the complaint thus filed by Gold Seal the Commissioner and the Secretary filed an answer in which they assert that Gold Seal is not entitled to the registration of "Glass Wax"; the detail of the answer is not here pertinent. An answer was filed also by Johnson & Son in which that defendant asserts that Gold Seal, because of failure to show compliance with the conditions of section 2 (a), (e), and (f) or with any of the conditions of the act, is not entitled to the registration of "Glass Wax" as a trade-mark; the detail of that answer is also not here pertinent. Johnson & Son also filed a counterclaim; its terms are not material to the issue presently before this court. Johnson & Son also filed a cross-claim against the Secretary and the Commissioner. The cross-claim alleges, so far as here pertinent, in substance and effect that:

The words "Glass Wax" sought to be registered by Gold Seal have been used on goods which in fact contain no wax, and the words thus comprise deceptive matter and therefore registration is prohibited by section 2 (a) of the act. The words "Glass Wax" have not been used by Gold Seal to identify its goods and distinguish them from those manufactured or sold by others, and therefore the words are not a trade-mark within the meaning of sections 1 and 45 of the act. The words "Glass Wax" when applied to the goods of Gold Seal are descriptive, or are deceptively misdescriptive, and therefore registration is prohibited by section 2 (e) of the act. The application by Gold Seal was not filed under the provisions of section 2 (f) and therefore the Commissioner and the Secretary can not register "Glass Wax" thereunder on the basis of the present application. Section 2 (f) can not be relied upon to overcome the prohibition of section 2 (a), and can not be relied upon to make the words "Glass Wax" a trade-mark within the meaning of section 1 or within the definition of section 45 of the act.

The cross-claim prays for a declaration by the District Court that the words "Glass Wax" as used by Gold Seal do not constitute a lawful trade-mark and that Gold Seal is not entitled to register the same. The cross-claim prays also that the Secretary and the Commissioner be restrained from registering "Glass Wax" as a trade-mark under any of the provisions of the act, and that they be restrained from granting to Gold Seal a Certificate of Registration.

The Secretary and the Commissioner filed a motion to dismiss the cross-claim. When that motion came on for hearing before a motions judge in the District Court a colloquy occurred between the judge and counsel for the Secretary and the Commissioner and counsel for Johnson & Son, with counsel for Gold Seal present and occasionally participating, but doing so, apparently, without basis in the pleadings since no motion had been filed against Gold Seal's complaint. In the course of the colloquy it was asserted that the complaint sought to compel registration of "Glass Wax" not only upon the theory that the conditions of section 2 (a) and (e) of the act were fulfilled, but also upon the theory that even if the provisions of section 2 (e) were not fulfilled, the words are registrable under section 2 (f) as distinctive, *i. e.* as having acquired a secondary meaning. It was asserted further that in the Patent Office itself no consideration was given under the application as filed by Gold Seal to registrability of "Glass Wax" under section 2 (f) of the act. In view of this the motions judge raised the question whether or not, in view of *Gilbert* v. *Marzall*, 87 U. S. App. D. C. 1, 182 F.2d 389 (D. C. Cir. 1950), *Cherry-Burrell Corporation* v. *Coe*, 79 U. S. App. D. C. 124, 143 F.2d 372 (D. C. Cir. 1944), and *Lucke* v. *Coe*, 63 App. D. C. 61, 69 F.2d 379 (D. C. Cir. 1934), the District Court could properly consider the complaint insofar as it sought relief under

Footnotes at end of decision.

Footnotes at end of decision.

section 2 (f).[3] Finally the motions judge, acting sua sponte, expressed a willingness to sign an order eliminating from the case any consideration of section 2 (f) under either the complaint of Gold Seal or the cross-claim of Johnson & Son, but leaving the pleadings otherwise standing. Counsel for the Secretary and the Commissioner indicated that such an order would satisfy them. As a result, the judgment which is the subject of the present appeal and the present motion to dismiss was entered, in the following terms:

"ORDERED AND ADJUDGED that the plaintiff's complaint and the cross-claim of the defendant, S. C. Johnson & Son, Inc., insofar as both relate to the claim of plaintiff, Gold Seal Company, to a registration of the alleged trade-mark "GLASS WAX" under the provisions of section 2 (f) of the Trade-Mark Act of July 5, 1946, be and the same hereby are dismissed.

"The court finds that there is no just reason for delay and this order constitutes a final judgment as to that part of plaintiff's complaint and that part of the cross claim of the defendant, S. C. Johnson & Son, Inc., which relate to plaintiff's claim to a registration under the provisions of section 2 (f) of the Trade-Mark Act of July 5, 1946, within the provisions of Rule 54 (b) Federal Rules of Civil Procedure."

II

Rule 54 (b) of the Federal Rules of Civil Procedure provides:

"Judgment Upon Multiple Claims. When more than one claim for relief is presented in an action, whether as a claim, counter-claim, cross-claim, or third-party claim, the court may direct the entry of a final judgment upon one or more but less than all of the claims only upon an express determination that there is no just reason for delay and upon an express direction for the entry of judgment. In the absence of such determination and direction, any order or other form of decision, however designated, which adjudicates less than all the claims shall not terminate the action as to any of the claims, and the order or other form of decision is subject to revision at any time before the entry of judgment adjudicating all the claims."

As construed and applied by the courts Rule 54 (b) is applicable only in instances in which more than one claim for relief is presented in an action, and in which the claim upon which a final judgment is to be entered under the rule is itself a claim distinct from the other claim or claims. *Reeves* v. *Beardall*, 316 U. S. 283 (1942); *Town of Clarksville, Va.* v. *United States*, 198 F.2d 238 (4th Cir. 1952), certificate denied, 344 U. S. 927 (1953); *Western Contracting Corp.* v. *National Surety Corp.*, 163 F.2d 456 (4th Cir. 1947); *Collins* v. *Metro-Goldwyn Pictures Corp.*, 106 F.2d 83 (2d Cir. 1939). In *Reeves* v. *Beardall* a complaint embraced three counts, the first containing a claim upon a promissory note executed by the respondent's decedent; the second containing a claim seeking specific performance or damages under an alleged contract between the petitioner and the respondent's decedent whereby the latter, in consideration of the petitioner's return of certain securities and of the petitioner's agreement not to press for payment of the note, agreed not to change her will; the third containing a claim for an accounting against a third party who was alleged to hold certain assets of the decedent to which the petitioner was entitled by reason of the contract on which the second count was based. A judgment dismissing the second count was held appealable under Rule 54 (b) as a final judgment upon a claim distinct from the claims in the first and third counts. In *Town of Clarksville, Va.* v. *United States* the Court of Appeals for the Fourth Circuit ruled that a claim for compensation for a condemnation taking of a sewer system and a claim for the cost of construction of a sewage treatment plant and for the cost of operation and maintenance of lift stations not needed under that system were separate claims, so that an adverse judgment upon the latter claim was the proper subject of an appeal in view of Rule 54 (b). In *Western Contracting Corp.* v. *National Surety Corp.* the Court of Appeals for the Fourth Circuit ruled that the claim of a surety of non-liability upon its secondary obligation is not a claim distinct from that of the principal of non-liability on its primary obligation, and that therefore an adjudication of non-liability of the surety prior to a judgment as to the liability of the principal was not appealable as a final judgment on one of a plurality of claims under Rule 54 (b). In *Collins* v. *Metro-Goldwyn Pictures Corp.* the Court of Appeals for the Second Circuit regarded as distinct, one from the other, within the purview of Rule 54 (b), two claims, one of which was for an infringement of a copyrighted book called "Test Pilot" by a motion picture of the same name, and the other of which was for unfair competition in using the title "Test Pilot" as the title of the picture. The court ruled that an order dismissing the infringement claim when the court below had not disposed of the unfair competition claim was appealable.

The claim for relief referred to in Rule 54 (b) is of course the claim for relief referred to in Rule 8 (a) of the Federal Rules of Civil Procedure. As such it must show that the claimant is "entitled to relief." That is to say, the claim for relief must indicate the existence of a cause of action. By cause of action in this context is meant a claim that facts exist which, under our legal system, are recognized as entitling the claimant to judicial action in vindication of a right or in remedying a wrong. *Patten* v. *Dennis*, 134 F.2d 137 (9th Cir. 1943), cited with approval in *Pierce* v. *Wagner*, 134 F.2d 958 (9th Cir. 1943). In *Patten* v. *Dennis* the Court of Appeals for the Ninth Circuit affirmed, because it was impossible to spell out from various petitions and motions filed by the appellant Patten as plaintiff in the action any "clear theory of liability," a judgment dismissing the appellant's case. In so doing the court said:

"Rule 8, Federal Rules of Civil Procedure, 28 U. S. C. A. following section 723c, provides that a pleading which sets forth a claim for relief shall contain '(1) a short and plain statement of the grounds upon with the court's jurisdiction depends, unless the court already has jurisdiction and the claim needs no new grounds of jurisdiction to support it, (2) a short and plain statement of the claim showing that the pleader is entitled to relief, and (3) a demand for judgment for the relief to which he deems himself entitled'. In *Baltimore S. S. Co.* v. *Phillips*, 274 U. S. 316, 321, 47 S. Ct. 600, 602, 71 L. Ed. 1069, it is said: 'A cause of action does not consist of facts, but of the unlawful violation of a right which the facts show'. See also: *Hurn* v. *Oursler*, 289 U. S. 238, 246, 53 S. Ct. 586, 77 L. Ed. 1148.

"The requirements of a complaint may be stated, in different words, as being a statement of facts showing (1) the jurisdiction of the court; (2) ownership of a right by plaintiff; (3) violation of that right by defendant;

Footnotes at end of decision.

(4) injury resulting to plaintiff by such violation; and (5) justification for equitable relief where that is sought. See: *United States* v. *Humboldt Lovelock Irr. Light & P. Co.*, 9 Cir., 97 F.2d 38, 42; *United States* v. *McIntire*, 9 Cir., 101 F.2d 650, 653. The complaint is completed by a demand for relief." (134 F.2d at 138.)

A view that a claim for relief need not state a cause of action as above defined, would be an abandonment of a fundamental premise of our system of law, to wit, that the courts administer justice not according to the personal notions of the judge but according to law. Courts are not authorized to require a party defendant to defend against a "cause" not recognized by law as involving the vindication of a legal right or the remedying of a legal wrong. We take note of the statement in *Reeves* v. *Beardall*, supra, that the rules make it clear that it is "differing occurrences or transactions, which form the basis of separate units of judicial action." We take note also of the concurring opinion of Judge Clark in *Atwater* v. *North American Coal Corporation*, 111 F.2d 125, 126 (2d Cir. 1940) from which that language was taken. Also we have in mind the statement by Judge Clark in *Dioguardi* v. *Durning*, 139 F.2d 774, 775 (2d Cir 1944) to the effect that under the rules "there is no pleading requirement of stating 'facts sufficient to constitute a cause of action' but only that there be a 'short and plain statement of the claim showing that the pleader is entitled to relief.'" But we do not understand these statements to mean that a claim for relief need not state facts which, under our legal system, are recognized as entitling the claimant to judicial action in vindication of a right or in remedying a wrong.[4]

III

In ruling that the instant action presents more than one claim for relief, and in directing the entry of the judgment sought to be reviewed in this appeal, the motions judge was apparently of the view that the allegations in the complaint relating to section 2 (f) of the act, *i. e.* the allegations that the words "Glass Wax" had acquired a distinctive or secondary meaning identifying Gold Seal's goods and distinguishing them from the goods of others, and the allegations of the complaint relating to section 2 (e) of the act, *i. e.* the allegations that the words "Glass Wax" are neither merely descriptive nor deceptively misdescriptive, constitute statements of two separate and distinct claims for relief either one of which might, under Rule 54 (b), be made the subject of a final judgment. Presumably the motions judge was applying a conventional test to determine whether or not two "causes" are the same, to wit, will the same evidence support both; if it will, the two "causes" are the same, otherwise not. *Stone* v. *United States*, 64 Fed. 687, 671, (9th Cir. 1894), aff'd, 167 U. S. 178 (1896), quoting from 1 Freeman on Judgments § 259 (1892); 2 Black on Judgments § 726, page 1089 (2d ed. 1902). Obviously the evidence under the section 2 (f) "claim" would be different from the evidence under the section 2 (e) "claim." That would end the dispute as to the existence of a plurality of claims if the conventional "same evidence" test were under all circumstances valid.

But by claim for relief, *i. e.* cause of action, for the purpose of this test of identity, is meant the same in gist or material elements. As said in *Baltimore S. S. Co.* v. *Phillips*, 274 U. S. 316, 321 (1927):

"The thing, therefore, which in contemplation of law as its cause, becomes a ground for action, is not the group of facts alleged in the declaration, bill, or indictment, but the result of these in a legal wrong, the existence of which, if true, they conclusively evince."[5]

To the same effect see *United States* v. *California and Oregon Land Co.*, 192 U. S. 355 (1904); *Werlein* v. *New Orleans*, 177 U. S. 390 (1900); *McKnight* v. *Minneapolis St. Ry.*, 127 Minn. 207, 149 N. W. 131 (1914). In each of those cases it was contended that differing allegations of fact in two successive suits so differentiated the causes of action involved as to make inapplicable in the second a plea of res judicata based upon the decision in the first. But in each of those cases it was held that since the facts alleged in the second suit, although different from those asserted in the first, nevertheless lent support to the same cause of action as was sued on in the first, the doctrine of res judicata was applicable.[6] Those decisions put it beyond doubt that where in two successive suits between the same parties it is sought in the second to defeat, upon the ground that the causes of action are different, a plea of res judicata based upon the first, the test of identity, *i. e.*, whether the same evidence will support each charge, must be applied not in terms of the mere facts, theories or pleadings specifically relied upon in each, but in terms of the ultimate wrong sued on. It is of course true that the question what wrong is sued on must be determined from the allegations in the respective plaintiff's pleadings. But if from the four corners of the pleadings in each of the two suits it appears that the wrong sued on in each is the same, then the assertion in the second suit of facts different from those asserted in the first will not defeat the plea. In short, the "same evidence" test, if applied with complete literalness, is valid as a positive but not as a negative test for determining the identity vel non of causes. Obviously, if exactly the same items of evidence would be requisite to the establishment of a plaintiff's case as pleaded in each of two suits between the same parties, the two causes relied upon must be the same—because the allegations would be identical and therefore could describe but one and the same legal wrong. But, as illustrated in the cases cited, the same legal wrong may be found relied upon in each of two suits despite the fact that the pleadings may differ—in that in one the wrong is described in terms of the assertion of but a part of the facts actually available to establish it, whereas in the other those facts are omitted and the remainder stated. In such event, obviously, the evidence admissible under the pleadings in the two

Footnotes at end of decision.

Footnotes at end of decision.

suits will be different; yet the causes of action are the same. Putting this still otherwise: There is a totality of facts out of which every legal wrong grows; but a single wrong cannot be made the basis of a plurality of actions by alleging in one case but a part of that totality and in another or other cases the remainder thereof. A fortiori, a single wrong cannot be made the basis of a plurality of actions by alleging in one case but a part of the totality of facts out of which the wrong grows and in another alleging that part plus the remainder. As said in *Baltimore S. S. Co.* v. *Phillips*:

"The number and variety of the facts alleged do not establish more than one cause of action so long as their result, whether they be considered severally or in combination, is the violation of but one right by a single legal wrong. . . . 'The facts are merely the means, and not the end. They do not constitute the cause of action, but they show its existence by making the wrong appear. . . .'" (274 U. S. at 321.)

While in the cases cited the question of identity of causes of action arose under pleas of res judicata filed in the second of two separate suits, whereas in the instant case the question arises, under the present motion to dismiss, in respect of different allegations in the same complaint in the same suit, and while the subject matter of the actions in the cases cited and in the instant case are different, nevertheless the theory underlying the decisions in the cases cited is fundamental in our system of law. And the reasoning and rulings in those cases are obviously as fully applicable to different allegations in the same complaint in the same suit as they are to different allegations in complaints in successive suits, if the legal wrong sued on is the same.

If we apply the reasoning and rulings reviewed to the question arising under the present motion to dismiss the appeal, the answer is, we think, clear that the section 2 (f) allegations in Gold Seal's complaint to the effect that the words "Glass Wax" have acquired a secondary or distinctive meaning, and the section 2 (e) allegations therein to the effect that the words "Glass Wax" are neither merely descriptive nor deceptively misdescriptive, do not state separate claims for relief. For patently the legal wrong sought to be remedied under each of the two sets of allegations is one and the same, to wit, the allegedly wrongful refusal of registration as a trade-mark of the words "Glass Wax." Putting this in terms of legal "right" and legal "duty" the trade-mark act creates a statutory right of registration of a mark, certain conditions set forth in the act being complied with; it is this right which Gold Seal seeks to vindicate. The act imposes a correlative duty upon the Commissioner and the Secretary to register a mark if the statutory conditions are complied with. It is this duty a wrongful breach of which Gold Seal seeks to remedy. The allegations of compliance with section 2 (e) of the act and the allegations of compliance with section 2 (f) are but the statement of two different grounds for vindication of the same statutory right of registration, or of two different grounds for the remedying of the same statutory wrong—refusal of registration. The "claim for relief" under the section 2 (f) allegations is therefore not a claim for relief separate and distinct from the other claim or claims presented in the action and is not, therefore, the proper subject of a final judgment under Rule 54 (b).

The fact that the motions judge, in the order sought to be reviewed, characterized the same as a final judgment upon a separate claim can not make the order such a judgment or the claim such a claim, if the claim fails to meet the standard of separateness or distinctness required by the law and the judgment fails to meet the standards of finality so required. *Flegenheimer* v. *General Mills*, 191 F.2d 237 (2d Cir. 1951); *Audi Vision, Inc.* v. *RCA Mfg. Co.*, 136 F.2d 621 (2d Cir. 1943). *Cf. Federal Trade Commission* v. *Minneapolis-Honeywell Regulator Co.*, 344 U. S. 206 (1952). For a contrary ruling see *Bendix Aviation Corp.* v. *Glass*, 195 F.2d 267 (3d Cir. 1952). With due deference to our colleagues in the United States Court of Appeals for the Third Circuit we feel obliged to follow the position taken in the cases decided in the Second Circuit.

The motion to dismiss the appeal is granted.

MOTION TO DISMISS APPEAL GRANTED.

[1] Section 1. The owner of a trade-mark used in commerce may register his trade-mark under this act on the Principal Register hereby established:

(*a*) By filing in the Patent Office—

(1) A written application, in such form as may be prescribed by the Commissioner, verified by the applicant, or by a member of the firm or an officer of the corporation or association applying, specifying applicant's domicile and citizenship, the date of applicant's first use of the mark, the date of applicant's first use of the mark in commerce, the goods in connection with which the mark is used and the mode or manner in which the mark is used in connection with such goods, and including a statement to the effect that the person making the verification believes himself, or the firm, corporation, or association in whose behalf he makes the verification, to be the owner of the mark sought to be registered, that the mark is in use in commerce, and that no other person, firm, corporation, or association, to the best of his knowledge and belief, has the right to use such mark in commerce either in the identical form thereof or in such near resemblance thereto as might be calculated to deceive: * * *

(2) A drawing of the mark; and

(3) Such number of specimens or facsimilies of the mark as actually used as may be required by the Commissioner.

(*b*) By paying into the Patent Office the filing fee.

(*c*) By complying with such rules or regulations, not inconsistent with law, as may be prescribed by the Commissioner.

(*d*) * * *

Sec. 2. No trade-mark by which the goods of the applicant may be distinguished from the goods of others shall be refused registration on the principal register on account of its nature unless it—

(*a*) Consists of or comprises immoral, deceptive, or scandalous matter; or matter which may disparage or falsely suggest a connection with persons, living or dead, institutions, beliefs, or national symbols, or bring them into contempt, or disrepute.

(*b*) Consists of or comprises the flag or coat of arms or other insignia of the United States, or of any State or municipality, or of any foreign nation, or any simulation thereof.

(*c*) Consists of or comprises a name, portrait, or signature identifying a particular living individual except by his written consent, or the name, signature, or portrait of a deceased President of the United States during the life of his widow, if any, except by the written consent of the widow.

(*d*) Consists of or comprises a mark which so resembles a mark registered in the Patent Office or a mark or trade name previously used in the United States by another and not abandoned, as to be likely, when applied to the goods

of the applicant, to cause confusion or mistake or to deceive purchasers:

* * * * * *

(*e*) Consists of a mark which, (1) when applied to the goods of the applicant is merely descriptive or deceptively misdescriptive of them, or (2) when applied to the goods of the applicant is primarily geographically descriptive or deceptively misdescriptive of them, except as indications of regional origin may be registrable under section 4 hereof, or (3) is primarily merely a surname.

(*f*) Except as expressly excluded in paragraphs (*a*), (*b*), (*c*), and (*d*) of this section, nothing herein shall prevent the registration of a mark used by the applicant which has become distinctive of the applicant's goods in commerce. The Commissioner may accept as prima facie evidence that the mark has become distinctive, as applied to the applicant's goods in commerce, proof of substantially exclusive and continuous use thereof as a mark by the applicant in commerce for the five years next preceding the date of the filing of the application for its registration.

[3] By a "technical trade-mark" is meant, in trade-mark parlance, a mark registrable because it complies with the conditions of the act other than that condition set forth in section 2 (f).

[4] The cases referred to in the text rule that in an action under Rev. Stat. § 4915 (in its present form 66 Stat. 803 (1952), 35 U. S. C. A. § 145 (Supp. 1952)) the court will determine the patentability only of such claims in a patent application as have been determined by the Patent Office. The motions judge was apparently of the view that a claim for relief under the Federal Rules of Civil Procedure parallels a patent claim required by the patent statutes to be stated as a part of an application for a patent, and the motions judge apparently thought also that in view of the cases referred to the District Court was forbidden to consider the section 2 (f) aspect of the complaint until the Patent Office had ruled upon a Patent Office application by Gold Seal for registration of "Glass Wax" under section 2 (f) of the act. Upon the correctness of these views of the motions judge we make no decision.

[4] For further discussion of the meaning of the term "cause of action" in our system of law see: *United States* v. *Memphis Cotton Oil Co.*, 288 U. S. 62 (1933); *Georgia R. & Banking Co.* v. *Wright*, 124 Ga. 596, 606, 53 S. E. 251, 256 (1906); *Hale* v. *Stimson*, 198 Mo. 134, 149, 95 S. W. 885, 889 (1906); *Zenith Bathing Pavilion* v. *Fair Oaks S. S. Corp.*, 240 N. Y. 307, 311, 148 N. E. 532, 533 (1925); *Columbia Bank* v. *Equitable Life Assurance Society*, 79 App. Div. 601, 609, 80 N. Y. Supp. 428, 434 (1st Dept. 1903); *East Side Mill & Lumber Co.* v. *Southeast Portland Lumber Co.*, 155 Ore. 367, 372, 64 P. 2d 625, 628 (1937). See also: Notes and Comments, 23 Phil. L. J. 523 (1948); Wheaton, The Code "Cause of Action": Its Definition, 22 Corn. L. Q. 1 (1936).

[5] This statement is quoted from *Chabanian* v. *Washburn Wire Co.*, 33 R. I. 289, 302, 80 Atl. 394, 400, 29 Ann. Cases 730, 735 (1911), the opinion in which was quoting from *Columbus* v. *Anglin*, 120 Ga. 785, 48 S. E. 318 (1903), the opinion in which, in turn, was quoting from Sibley, Right to and Cause for Action, 48.

[6] The cases referred to are stated and pertinent portions of the opinions are quoted in the separate opinion of the present writer in *United States* v. *United States Gypsum Co.*, 51 F. Supp. 613, 615–639. See in particular pages 621 to 626, including footnote 17 at pages 623–626. The discussion in the present opinion of the cases referred to also appears in that separate opinion.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,267,227, O. S. Williams, Tractor cab, filed Nov. 20, 1953, D. C., N. D. Iowa (Fort Dodge), Doc. 604, *Original Tractor Cab Co., Inc.* v. *Fort Dodge Tent & Awning Co. et al.*

2,344,877, K. Janigian, Window construction, filed Nov. 19, 1953, D. C., E. D. Mich. (Detroit), Doc. 13039, *K. Janigian et al.* v. *Aluminum Co. of America.*

2,450,866, Morehouse & Mayfield, Poultry treatment composition, appeal filed Nov. 16, 1953, C. C. A., 8th Cir. (St. Louis), Doc. 14967, *Dr. Salsbury's Laboratories* v. *I. D. Russell Co. Laboratories.*

2,455,905, Ronning & Keith, Combine, C. C. A., 8th Cir. (St. Louis), Doc. 14787, *Minneapolis-Moline Co.* v. *The Massey-Harris Co.* Judgment of District Court affirmed Nov. 19, 1953.

2,462,763, V. C. Nightingall, Protectively coated ferrous metal surfaces and method of producing same; 2,509,875, A. M. McDonald, Alkali silicate coating composition, D. C. Del., Doc. 1420, *Dimet Proprietary, Ltd., et al.* v. *Industrial Metal Protectives, Inc.* Dismissed by stipulation Nov. 23, 1953.

2,495,579, Ferris & Klaucnik, Antenna, filed Nov. 23, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c2292, *Hi-Lo Antenna Corp.* v. *Midwest Naturalite Co. et al.*

2,501,962, H. L. Pierce, Process for expanding earth materials, D. C., N. D. Calif. (San Francisco), Doc. 6551, *H. L. Pierce* v. *Perlite Aggregates, Inc., et al.* Claims 1 to 8 incl. held invalid Nov. 16, 1953.

2,509,875. (See 2,462,763.)

2,532,687, T. E. Weichselbaum, Method and flame generating apparatus for spectrophotometric quantitative analysis; 2,562,874, same, Apparatus for spectrophotometric quantitative analysis, D. C., S. D. Calif. (Los Angeles), Doc. 14115–PH, *Scientific Equipment Corp.* v. *Beckman Instruments, Inc., et al.* Stipulation and order dismissing complaint and counterclaim without prejudice (notice Nov. 17, 1953).

2,541,768. (See T. M. 529,264.)

2,562,874 (See 2,532,687.)

2,642,287, H. Rubin, Convertible punching bag mount, filed Nov. 19, 1953 D. C., E. D. N. Y. (Brooklyn), Doc. 13956, *H. Rubin* v. *Empire Hobby Industries Corp.*

2,649,361, Springer & Meyer, Method of dissolving metals and composition therefor, filed Nov. 23, 1953, D. C. Conn. (New Haven), Doc. 4671, *Enthonc, Inc.* v. *MacDermid, Inc.*

2,657,311, L. F. Kleis, Antenna, filed Nov. 23, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c2291, *K-G Electronics Corp.* v. *Mort's Radio Shack, Inc. of Chicago et al.*

Des. 156,234, R. H. Higier, Glove, filed Apr. 23, 1953, D. C., S. D. N. Y., Doc. 84/287, *Crescendoe Gloves, Inc.* v. *Gloria Gloves, Inc.* Stipulation and order of discontinuance Nov. 20, 1953.

Des. 156,825, G. H. Hake, Scraper for windshields, filed Nov. 19, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30567, *Hake Mfg. Co., Inc.* v. *New Items Mfg. Co.*

Des. 165,399, J. Siegel, Lady's stocking, D. C., S. D. N. Y., Doc. 82/227, *Lambert Hosiery Mills, Inc., et al.* v. *U. S. Hosiery Corp.* Stipulation and order of dismissal Nov. 23, 1953.

Des. 167,878, J. C. Bessolo, License plate holder, filed Nov. 19, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 16056, *U. S. License Frame Mfg. Co.* v. *Robert W. Brown Co. et al.*

Des. 170,386, J. J. Rohrback, Combination metal and plastic spectacle front, filed Nov. 23, 1953, D. C., S. D. N. Y., Doc. 89/258, *Shuron Optical Co., Inc.* v. *K. Stenzel & Sons.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 215,556, Chanel, Inc., Perfume and toilet water; T. M. 233,407, T. M. 422,335, T. M. 510,992, same, Perfume, toilet water, face powder, etc.; T. M. 400,004, T. M. 513,132, same, Toilet soap, D. C., N. D. Ill. (Chicago), Doc. 52c178, *Chanel, Inc.* v. *Exclusive Import Co., Inc., et al.* Judgment restraining defendants Nov. 13, 1953.

T. M. 216,906, Guerlain Perfumery Corp., Perfumes, D. C., N. D. Ill. (Chicago), Doc. 52c180, *Guerlain, Inc.* v. *Exclusive Import Co., Inc., et al.* Judgment restraining defendants Nov. 13, 1953.

T. M. 233,407. (See T. M. 215,556.)

T. M. 313,722, Lanvin Parfums, Inc., Perfumes, face powder, etc., D. C., N. D. Ill. (Chicago), Doc. 52c179, *Lanvin Parfums, Inc.* v. *Exclusive Import Co., Inc., et al.* Judgment by consent Nov. 13, 1953.

T. M. 400,004. (See T. M. 215,556.)

T. M. 422,335. (See T. M. 215,556.)

T. M. 510,992. (See T. M. 215,556.)

T. M. 513,132. (See T. M. 215,556.)

T. M. 529,264, T. M. 553,206, Keller Products, Inc., Flexible sealing strips of rubberlike material; 2,541,768, K. M. Keller, Flexible molding strip, D. C., N. D. Ill. (Chicago), Doc. 52c1540, *Keller Products, Inc.* v. *Rubber Linings Corp.* Defendant enjoined and restrained from using as a trademark "TUB-KOVE" or "TEB COVE" Nov. 12, 1953.

T. M. 553,206. (See T. M. 529,264.)

NOTICES

Access to Register of Government Interests in Patents

Hereafter when a patent issues on an application in which the United States Government has an interest such as an assignment or license, as indicated by the card index register maintained in the Assignment Branch under Executive Order 9424, the card corresponding to that particular application shall be made available for public inspection.

ARTHUR W. CROCKER,
Assistant Commissioner.

Jan. 27, 1954.

Erratum

All references to Patent No. 2,668,106 to Howard F. West and John H. Veale, assignors to Illinois Clay Products Company, for Charging Ore and the Like and Its Preparation, appearing in the OFFICIAL GAZETTE of February 2, 1954, should be deleted, as the application was withdrawn from issue and the patent was not issued.

Adjudicated Patents

(C. A. Ill.) Rogers Patent No. 2,108,727, for a mop. Claims 7 and 10 *Held* valid and infringed. *Artmoore Company et al.* v. *Dayless Manufacturing Company, Inc., et al.*, 208 F.2d 1; 99 USPQ 306.

(C. A. Minn.) Ronning and Keith Patent No. 2,455,905, for a combine. Claims 1 and 12 to 15 *Held* invalid. *Minneapolis-Moline Company* v. *The Massey-Harris Company*, 208 F.2d 73; 99 USPQ 327.

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,401,717, I. Wolff and W. D. Hershberger, Signaling system, decided Oct. 30, 1953, claims 3, 16, and 17.

Pat. 2,544,477, H. E. W. West, Spark type ignition systems for combustion engines, decided Dec. 23, 1953, claims 6, 8, and 9.

Pat. 2,548,737, F. A. Morris, Multiplex phase generators, decided Dec. 22, 1953, claims 1 and 9.

Pat. 2,563,823, F. W. Kerfoot, Engine pressure control, decided Jan. 15, 1954, claims 7 and 8.

Pat. 2,597,391, W. Sichak, Antenna, decided Jan. 12, 1954, claim 5.

Pat. 2,605,736, G. A. Cook and C. F. Aldridge, Maximum and minimum registering instrument, decided Dec. 30, 1953, claim 4.

Pat. 2,609,787, R. H. Lawson, Mail delivery signal, decided Dec. 22, 1953, claim 2.

Disclaimers

2,124,324.—*Walter E. Weeks*, Baltimore, Md. PACKAGE. Patent dated July 19, 1938. Disclaimer filed Jan. 12, 1954, by the inventor.

Hereby enters this disclaimer to claims 1 and 2 of said patent.

2,128,017.—*John Sinko*, Chicago, Ill. CIGAR LIGHTER. Patent dated Aug. 23, 1938. Disclaimer filed Dec. 30, 1953, by the assignee, *General Motors Corporation.*

Hereby enters this disclaimer to claims 1 to 9, inclusive, of said patent.

2,129,792.—*John Sinko*, Chicago, Ill. CIGAR LIGHTER. Patent dated Sept. 13, 1938. Disclaimer filed Dec. 30, 1953, by the assignee, *General Motors Corporation.*

Hereby enters this disclaimer to claims 1 to 11, inclusive, of said patent.

2,547,644.—*Alfred L. Hogue, Edwin A. Raney, James A. Young*, and *Lewis R. Runaldue*, Pittsfield, Mass. METHOD AND APPARATUS FOR INSERTION OF TAP STRAPS IN CAPACITORS. Patent dated Apr. 3, 1951. Disclaimer filed Jan. 20, 1954, by the assignee, *General Electric Company.*

Hereby enters this disclaimer to claims 1 and 2 of said patent.

Filing of Priority Papers

Although Rule 55 permits the filing of priority papers up to and including the date for payment of the final fee, it is advisable that such papers be filed as soon as a claim is indicated to be allowable. Frequently, priority papers are found to be deficient in material respects, such as, for example, the failure to include the correct certified copy, and there is not sufficient time to remedy the defect. Occasionally, a new oath may be necessary where the original oath omits the reference to the foreign filing date for which the benefit is claimed. The early filing of priority papers would thus be advantageous to applicants in that it would afford time to explain any inconsistencies that exist or to supply any additional documents that may be necessary.

M. C. ROSA,
Executive Examiner.

Jan. 27, 1954.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,522,145. Expansion Safety Valve. Patented Sept. 12, 1950. Safety valve is designed to insure positive seating. In the lower end of a fluid outlet nipple is a beveled circular valve seat, surrounded by an out-turned annular rim. A cage, comprising an upper and a lower ring connected by bowed arms, is fulcrum-suspended from the annular rim and supports in its lower ring an adjustable screw. Slidable through the screw is the stem of the valve head, encircled by a coiled expansion spring confined within a protective sleeve. This spring acts upon the head to maintain it seated, the tension of the spring being adjustable by the screw. (Owner) Robert O. Thompson, % Gilbert A. Levy, 421 West Susquehanna Ave., Philadelphia 22, Pa. Group 33—61—66. Reg. No. 52,602.

Pat. 2,631,331. Meat Patty Maker. Patented Mar. 17, 1953. Device for molding and dislodging a hamburger patty or the like. A mold has a loop shaped handle centrally bridging over its top, and a bladed scraper is mounted in the receptacle portion of the mold. A one piece finger-actuated knob, having four radially extending trip elements, is situated on the top of the mold under the handle, for finger tip operation of the bladed scraper, which dislodges the patty and allows it to drop freely into a frying pan. May be made in two sizes, one for hamburger sandwiches and one for smaller, thicker size meat cakes, fish patties, biscuits, cookies, and the like. May be made of metal or plastic and easily dismantled for cleaning. (Owner) Raymond J. Babbitt, 3171 West 58th St., Cleveland 2, Ohio. Groups 34—41; 39—81; 40. Reg. No. 52,603.

Pat. 2,563,151. Machine for Cleaning Solid Articles. Patented Aug. 7, 1951. Machine for cleaning articles with foam includes a revolving paddle wheel partly immersed in a strong solution of a detergent to beat air into the solution to form foam. The foam passes through a wide opening into the intermediate portion of the device in which are placed the articles to be cleaned. The rising foam surrounds the articles and loosens and removes the dirt. The foam and dirt collected thereby then enter a vibrator where the foam is broken and the air escapes, while the liquid detergent is returned via a filter to the foam-producing device. (Owner) Johan Bjorksten, Bjorksten Research Laboratories, 323 West Gorham St., Madison 3, Wis. Group 35—82—89. Reg. No. 52,604.

Pat. 2,646,082. Check for Picker Sticks. Patented July 21, 1953. Reg. No. 52,605.

Pat. 2,646,826. Picker Stick Check. Patented July 28, 1953. Reg. No. 52,606.

The two patents listed above relate to picker stick checks for conventional looms which will check the movement of the picker stick as it approaches the inner and outer ends of its stroke. The check includes demountable units arranged in pairs to be assembled before mounting upon the lay of the loom. Each check has a mounting channel arranged horizontally beneath the lay near its ends. Transverse slots in the top of the channel receive bolts which connect the unit with the lay, so the unit may be bodily adjusted. A pair of spring pressed leaves extend longitudinally of the channel with their inner ends pivotally secured to the channel near its longitudinal center for frictional engagement with the picker stick. When the picker stick moves near the end of its stroke in either direction, it is brought into frictional engagement with the converging pairs of leaves, and the leaves cause the picker stick to be properly brought to rest. When the picker stick moves inwardly from the free ends of the leaves, it becomes spaced from the leaves and may move freely. (Co-owner of Pat. 2,646,082. Owner of Pat. 2,646,826) Clarence W. Franklin, Route 2, Clarkesville, Ga. Group 35—52.

Pat. 2,582,549. Coin-Operated Fuel Issuing Machine. Patented Jan. 15, 1952. Coin-operated automatic fuel issuing machine for re-fueling cigarette, cigar, or pipe lighters. A cabinet has a fuel reservoir which communicates with a cylinder. A pipe line connected to the cylinder leads via a valve unit to a delivery nozzle. A piston rod spring controlled by a coin-operated mechanism is movably arranged in the cylinder to force a metered quantity of fuel to the delivery nozzle. A roller mounted in a slide for receiving a coin has a lever normally bearing thereon for holding the piston rod in its initial position. When a coin is inserted and the slide pushed inwardly, the roller is withdrawn, releasing the lever and spring and driving the piston rod. The outlet of the nozzle opens automatically when a container to be filled is pressed against the nozzle, and closes automatically when the container is removed. (Owner) Gottlieb Looser. Correspondence to Singer, Stern & Carlberg, 14 East Jackson Blvd., Chicago 4, Ill. Groups 39—99; 40. Reg. No. 52,607.

Pat. 2,647,507. Buoyant, Regulated-Temperature Weather-Suit. Patented Aug. 4, 1953. One-piece weather-suit of waterproof material, having a movable light weight chemical heat unit in the interior, is designed for fishermen, yachtsmen, aviators, campers, and skiers in extremely low temperatures. The suit consists of jacket, leg, foot, and hand portions, with a front vertical closure. An attached hood has an elongated ring base of compressible material to be held snugly by a draw cord at the suit neck. A chemical heat unit is attached to one end of a cord long enough to allow the wearer to drop the heater to the interior of the foot or any other portion at will. The other end of the cord is attached to the suit. An interior waterproof pocket is provided for storing the unit and cord when not in use. The inventor states that, since the chemical heater is moisture activated, the moisture condensed within the waterproof suit is utilized to prolong the production of warmth. If desired, a buoyancy compartment may be built into the suit. (Owner) Hubert K. Shaw, 247 Fisher Ave., Brookline 46, Mass. Group 23—29—86. Reg. No. 52,608.

Pat. 2,645,824. Ventilated Wall. Patented July 21, 1953. Perforated molding members to be attached to a building wall within the space between the siding and an insulated panel member, whereby moisture-laden air can pass through the molding, so that the moisture will not damage the paint on the outside of the building. A pair of molding members are arranged adjacent the top and bottom of the sheathing of the building, and each has a top section and a bottom section connected by an arcuate section. The top section extends downwardly and outwardly, and the bottom section has spaced openings for any moisture to pass to the outside. (Owner) Edwin J. Titsworth, Goodrich, Mich. Groups 33—81; 34—95. Reg. No. 52,609.

Pat. 2,651,859. Tractor Ditch Digging Attachment. Patented Sept. 15, 1953. Hydraulically controlled trench digging attachment for a conventional tractor includes a scoop which may be readily moved, for dumping, to one side of a trench being formed thereby. A pair of parallel horizontally disposed booms connected by cross bars extend rearwardly from the tractor with the forward ends of the booms pivoted to the rear axle housing. The trailing ends of the booms are supported by caster wheels. Forwardly extended parallel arms connected by a cross bar are pivotally mounted on the rear ends of the booms and pivotally support a scoop. A lever pivoted to one of the cross bars between the booms is actuated by a hydraulic cylinder. A cable connects the lever to the bail of the scoop. A latch is pivotally mounted on the cross bar between the arms to engage a clip on the scoop to lock the scoop in operating position. A cable extends from the latch for operating the latch from a remote point. (Owner) Nicholas M. Gralenski, 65 Northfield Road, Millers Falls, Mass. Group 35—21—31. Reg. No. 52,610.

General Electric Company offers the 33 patents listed below for non-exclusive licensing upon reasonable terms to domestic manufacturers. Applications for license may be addressed to the Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y.

Pat. 2,624,822. Rheostat. Patented Jan. 6, 1953. Compressible type rheostat includes a flexible bulbous housing containing compressible resistance material which is compressed and released in a manner to minimize packing of the resistance material so that accurate predictable resistance values are obtained in repeated operations. Group 36—19. Reg. No. 52,611.

Pat. 2,625,288. Electrical Outlet Box. Patented Jan. 13, 1953. Electrical outlet box includes a box made by turning up the corners of a polygonal flat metal base to lie in corresponding preformed depressions in a metal ring forming the sides of the box. Group 36—11. Reg. No. 52,612.

Pat. 2,627,540. Ground Leak Measuring Circuit. Patented Feb. 3, 1953. Measuring circuit for use with a direct current power transmission system for measuring the leakage resistance to ground of energized transmission lines. Group 36—13. Reg. No. 52,613.

Pat. 2,628,273. Magnetic Core. Patented Feb. 10, 1953. Laminated magnetic core of the mitered joint type for transformers and other stationary electric induction apparatus. Group 36—19. Reg. No. 52,614.

Pat. 2,629,132. Molding Apparatus. Patented Feb. 24, 1953. Apparatus for plasticizing thermoplastic material includes a combined plasticizing screw and plunger supported for rotation and reciprocating movement with respect to the body of a plasticizing head. Group 39—81. Reg. No. 52,615.

Pat. 2,629,469. Drive Mechanism for Washing Machines and the Like. Patented Feb. 24, 1953. Coupling and braking device for washing machines of the single basket type, in which the clothes are washed and then spin-dried, effects the transfer from the washing to the spin operations. Group 35—81. Reg. No. 52,616.

Pat. 2,630,778. Magnetic Resetting Tool for Maximum Indicators. Patented Mar. 10, 1953. Tool for magnetically resetting relatively inaccessibly located indicators, such as a maximum temperature indicator mounted high above the ground on the side of a large high voltage power transformer, permits a workman to reset the indicator in comparative safety while standing on the ground near the base of the transformer. Group 33—52. Reg. No. 52,617.

Pat. 2,631,918. Color Forming Chemical Reaction Recorder. Patented Mar. 17, 1953. Recording apparatus useful for the continuous recording of measurements includes a chemically treated paper chart and a stylus of a material which, when it touches the paper, produces a chemical reaction changing the color of the paper to leave a record on the chart of the movement of the stylus. Group 39—11. Reg. No. 52,618.

Pat. 2,632,039. Panelboard Construction. Patented Mar. 17, 1953. A distribution panelboard which may be housed in a wall box has the usual front plate and a door providing access to a number of circuit breakers mounted edge to edge. Group 36—19. Reg. No. 52,619.

Pat. 2,632,041. Transformer Cooling Duct Construction. Patented Mar. 17, 1953. Cooling arrangement for large high voltage transformers and the like having disc-type coil windings wherein the conventional radial spacer members between the stacked disc coils are so arranged and constructed that a serpentine fluid flow is produced as the cooling oil flows circumferentially about the windings. Group 36—19. Reg. No. 52,620.

Pat. 2,632,874. Motor Speed Regulating System. Patented Mar. 24, 1953. Speed regulating system for a motor in a Ward-Leonard type motor control system. Group 36—19. Reg. No. 52,621.

Pat. 2,632,877. Magnetic Amplifier Control System. Patented Mar. 24, 1953. Magnetic amplifier control system suitable for use as reversible controls for electric motors. Group 36—19. Reg. No. 52,622.

Pat. 2,634,992. Knob Retaining Device. Patented Apr. 14, 1953. Knob retaining device whereby the knob is held in a predetermined position indexed upon a shaft by a spring wire clip anchored inside the knob. May be used as a shear safety device to limit the maximum torque transmittable between the knob and shaft. Group 35—69. Reg. No. 52,623.

Pat. 2,635,219. Voltage Rectification and Regulation Power System. Patented Apr. 14, 1953. Power system for controlling the starting, running, and braking of direct current type motors of trolleys, locomotives, and the like. Group 36—19. Reg. No. 52,624.

Pat. 2,635,639. Hydraulic Regulator With Stabilizing Device. Patented Apr. 21, 1953. Hydraulic-mechanical device for overcoming inherent instability in a hydraulic regulator used to control the steam supply to the shaft packing seal of a steam turbine type of prime mover. Group 35—11—61. Reg. No. 52,625.

Pat. 2,635,723. Permanent Magnet Clutch-Brake. Patented Apr. 21, 1953. Clutch-brake mechanism of the magnetic fluid type combined to form a unitary structure and requiring no outside source of electrical energy. Group 36—19. Reg. No. 52,626.

Pat. 2,636,791. Bearing Mounting for Rotating Machines. Patented Apr. 28, 1953. Bearing mounting for dynamoelectric machines and the like includes a flexible disc or diaphragm so that the bearing unit is free to move a limited amount in an axial direction to compensate for engineering tolerances and differential expansions due to heat. Groups 35—66; 36—19. Reg. No. 52,627.

Pat. 2,639,721. Hydraulic Servo Mechanism. Patented May 26, 1953. Fluid pressure servo mechanism for gas turbine power plants for converting the comparatively small movement of a differential thermal expansion type of temperature sensitive element into an amplified displacement which can be used to modify the operation of the fuel regulating system. Group 35—11—61. Reg. No. 52,628.

Pat. 2,640,901. Photoelectric Semiconductor Device. Patented June 2, 1953. Encased transistor type photoelectric apparatus having a light guiding and light transmitting transparent plastic rod for directing light only to the desired small area to be illuminated for efficient utilization of the photoelectric effects of such devices. Group 36—19—61—62. Reg. No. 52,629.

Pat. 2,641,994. Combined Handle and Support. Patented June 16, 1953. Combined handle and support for the upper section of a sandwich grill or the like includes a hingedly mounted support portion that automatically swings to downwardly extending supporting position when the upper section is opened and swung downwardly to horizontal position so that both cooking surfaces of the appliance may be used as surface cookers. Group 36—21. Reg. No. 52,630.

Pat. 2,643,350. Dynamoelectric Machine Magnetic Core Member. Patented June 23, 1953. Permanent magnet type rotor core member for synchronous induction dynamoelectric machines. Group 36—19. Reg. No. 52,631.

Pat. 2,644,308. Feedwater Heater Arrangement for Steam Turbine Power Plants. Patented July 7, 1953. Heater arrangement for a compound steam turbine power plant of the reheat type in which the motive fluid passes through a high pressure turbine, then is reheated before entering lower pressure turbines. Group 35—11. Reg. No. 52,632.

The following 5 patents relate to circuit breakers and an enclosed switch. Group 36—19.

Pat. 2,564,701. Circuit Opening Device. Patented Aug. 21, 1951. Reg. No. 52,633.

Pat. 2,627,563. Electric Circuit Breaker. Patented Feb. 3, 1953. Reg. No. 52,634.

Pat. 2,631,208. Electric Circuit Breaker. Patented Mar. 10, 1953. Reg. No. 52,635.

Pat. 2,636,960. Enclosed Switch. Patented Apr. 28, 1953. Reg. No. 52,636.

Pat. 2,640,127. Electric Circuit Breaker. Patented May 26, 1953. Reg. No. 52,637.

The following 2 patents relate to planetary gear trains. Group 35—66.

Pat. 2,591,734. Planetary Gear Construction. Patented Apr. 8, 1952. Reg. No. 52,638.

Pat. 2,591,743. Cage Construction for Planetary Gearing. Patented Apr. 8, 1952. Reg. No. 52,639.

The following 4 patents relate to synthetic resins and an organosilicon composition. Group 28—83—89.

Pat. 2,640,818. Thienyl-Substituted Polysiloxanes. Patented June 2, 1953. Reg. No. 52,640.

Pat. 2,640,833. Organosilicon Composition. Patented June 2, 1953. Reg. No. 52,641.

Pat. 2,641,586. Thixotropic Compositions. Patented June 9, 1953. Reg. No. 52,642.

Pat. 2,644,805. Boric Acid-Methyl Polysiloxane Composition. Patented July 7, 1953. Reg. No. 52,643.

Dedicated Patent

Earle O. Whittier, of Washington, D. C., has dedicated the following patent to the free use of the People of the United States.

Pat. 2,651,574. Process for Making Candies, Confections, Icings, and the Like and the Resulting Product. Patented Sept. 8, 1953. Cold process for manufacturing candies, confections, icings, and similar products, especially those containing sugar in the crystalline condition, may be readily practiced in both homes and commercial establishments. By employing the process, a wide variety of such products may be manufactured without the application of heat. The process includes procedure for regulating the size of the sugar crystals, the texture, firmness of body, and plasticity of the finished products. Group 20—71.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Aberfoyle Manufacturing Company, Philadelphia, Pa. Yarns. Serial No. 645,853, Feb. 16. Class 43.

Air Engineering Company: *See*—
Johnson, John D.

Air Industries Company, Inc., Columbus, Ohio. Valves. Serial No. 638,343, Feb. 16. Class 13.

Alber Electric Co., Inc., Kansas City, Mo. Electrical installation contracting service and the repair of household, commercial and industrial electrical installations, etc. Serial No. 652,816, Feb. 16. Class 103.

Allen Products Company: *See*—
Hunsicker, Robert F.

American Air Filter Company, Inc., Louisville, Ky. Centrifugal dust separators. Serial No. 562,000, Feb. 16. Class 23.

American Cyanamid Company, New York, N. Y. Soil conditioner. Serial Nos. 629,225–6, Feb. 16. Class 10.

American Machine and Foundry Company, New York, N. Y. Slip stitching machines, under and over stitching machines, etc. Serial No. 564,983, Feb. 16. Class 23.

Baltimore Luggage Co., The, Baltimore, Md. Ladies' and men's luggage. Serial No. 648,467, Feb. 16. Class 3.

Belk's Buying Service, Inc., Charlotte, N. C. Men's overalls, work shirts, and work trousers. Serial No. 647,336, Feb. 16. Class 39.

Bemis Bro. Bag Company, St. Louis, Mo. Beehive covers. Serial No. 621,098, Feb. 16. Class 50.

Bishop, G. H., Company, Chicago, Ill. Laundry appliances. Serial No. 604,350, Feb. 16. Class 24.

Blue Anchor Beverage Company, Philadelphia, Pa. Malt-less soft drinks and carbonated waters. Serial No. 643,459, Feb. 16. Class 45.

Borden Company, The, New York, N. Y. Spray dried cheese flavor. Serial No. 651,215, Feb. 16. Class 46.

Bradley, Milton, Company, Springfield, Mass. Sheets of paper of assorted colors. Serial No. 627,486, Feb. 16. Class 37.

Brearley Company, The, Rockford, Ill. Weight indicator sighting device. Serial No. 631,845, Feb. 16. Class 26.

Brooks, Adolphus, East Liverpool, Ohio. Chemical preparation for treatment of corns and callouses. Serial No. 651,637, Feb. 16. Class 18.

Brown, Sidney W., Los Angeles, Calif. Ginger beer. Serial No. 585,561, Feb. 16. Class 45.

Byers, Donald W., Portland, Oreg. Making color prints. Serial No. 643,403, Feb. 16. Class 106.

Carrozzeria Pinin Farina, Turin, Italy. Automobile bodies. Serial No. 634,519, Feb. 16. Class 19.

Catz American Co., Inc., New York, N. Y. Canned hams. Serial No. 634,451, Feb. 16. Class 46.

Chautauqua Cabinet Company, doing business under the name Kling Factories, Mayville, N. Y. Bedroom furniture. Serial No. 651,896, Feb. 16. Class 32.

Chautauqua Cabinet Company, doing business under the name Kling Factories, Mayville, N. Y. Bedroom furniture. Serial No. 651,899, Feb. 16. Class 32.

Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Automobiles. Serial No. 575,838, Feb. 16. Class 19.

City Road Engineering Works Limited, London, England. Bicycles, motor cycles and parts thereof. Serial No. 638,349, Feb. 16. Class 19.

Clark Equipment Company, Buchanan, Mich. Power-operated industrial lift trucks and straddle carriers. Serial No. 649,633, Feb. 16. Class 23.

Cleveland Ceramics Corporation, Cleveland, Ohio, assignee of Phil-Mar Corporation. Ceramic artware. Serial No. 621,780, Feb. 16. Class 30.

Coast Envelope Company, Los Angeles, Calif. Check book covers and binder clips. Serial No. 603,401, Feb. 16. Class 37.

Commonwealth Cedar Company, Inc., Shelbyville, Tenn. Wood encased pencils. Serial No. 645,465, Feb. 16. Class 37.

Country Distillers: *See*—
Foster Trading Corporation, The.

Creek Chub Bait Company, The, Garrett, Ind. Artificial fish baits. Serial No. 636,691, Feb. 16. Class 22.

Crest Foods Co., Ashton, Ill. Emulsifier of the glyceride type. Serial No. 620,877, Feb. 16. Class 46.

Crown Metal Manufacturing Company, Chicago, Ill. Brackets. Serial No. 641,176, Feb. 16. Class 13.

Crown Zellerbach Corporation, San Francisco, Calif. Coated book paper. Serial Nos. 644,740–2, Feb. 16. Class 37.

Cummins-Chicago Corp., Chicago, Ill. Portable electric drills. Serial No. 645,960, Feb. 16. Class 21.

Cummins-Chicago Corp., Chicago, Ill. Power tool kits, including portable hand-operated electric drill sets, etc. Serial No. 645,961, Feb. 16. Class 21.

Cummins-Chicago Corp., Chicago, Ill. Portable hand operated electric drill sets and attachments therefor. Serial No. 645,962, Feb. 16. Class 21.

De Jong Inc., Long Island City, N. Y. Draperies. Serial No. 646,056, Feb. 16. Class 42.

Dellwood Fabrics Corp., New York, N. Y. Textile fabrics. Serial No. 651,391, Feb. 16. Class 42.

Derit Products Company: *See*—
Hawley, John E.

Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette tables and chairs. Serial No. 647,917, Feb. 16. Class 32.

Drew, E. F., & Co., Inc., New York, N. Y. Compositions for protecting, cleaning, and polishing metal surfaces. Serial No. 643,302, Feb. 16. Class 4.

Ebco Manufacturing Company, The, Columbus, Ohio. Electrically actuated air-drying machines. Serial No. 651,163, Feb. 16. Class 34.

Electronic Heating Corp., Newton, Mass. High frequency electronic machine. Serial No. 642,533, Feb. 16. Class 21.

Elektrik Seal Laboratories, Inc., Chicago, Ill. Surface coating compositions. Serial No. 619,335, Feb. 16. Class 16.

Fair, R., Co.: *See*—
Fair, Ruth.

Fair, Ruth, doing business as R. Fair Co., Dallas, Tex. Misses' and ladies' dresses, skirts, jackets, etc. Serial No. 646,748, Feb. 16. Class 39.

Ferro Corporation, Cleveland, Ohio. Friable glasslike substances in finely divided form containing essential plant foods for use as a fertilizer. Serial No. 646,751, Feb. 16. Class 10.

Financial Counselors, Inc., San Francisco, Calif. Service to debtors by calculation of a budget, etc. Serial No. 639,751, Feb. 16. Class 102.

Flavour Candy Company, The, Chicago, Ill. Candy. Serial No. 649,356, Feb. 16. Class 46.

Florasynth Laboratories, Incorporated, New York, N. Y., Chicago, Ill., Dalias, Tex., and elsewhere. Essences and aromatic ingredients used as bases for cosmetics and toilet preparations, etc. Serial No. 632,722, Feb. 16. Class 51.

Foster Trading Corporation, The, doing business as T. W. Samuels Distillery, Old Jordan Distillery, Our Own Distillery, and Country Distillers, Louisville, Ky. Whiskey. Serial No. 646,063, Feb. 16. Class 49.

Fraser Paper, Limited, Madawaska, Maine. Check and bond papers, bleached and unbleached sulphate and sulphite specialty papers, etc. Serial No. 642,809, Feb. 16. Class 37.

Friction Products and Manufacturing Co., Portland, Oreg. Friction blocks, edger pin stock, saw guides, asbestos or frictional lining material. Serial No. 616,469, Feb. 16. Class 35.

Frisch's Restaurants, Inc., Cincinntai, Ohio. Steak sandwiches. Serial No. 650,894, Feb. 16. Class 46.

Fruzola Company: *See*—
Smith, J. Fish.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics. Serial No. 636,011, Feb. 16. Class 42.

Gamecraft Company, The: *See*—
Miller, Francis C.

Garden City Plating & Mfg. Co., Chicago, Ill. Components and fittings for construction of convertible merchandise display fixtures, etc. Serial No. 651,446, Feb. 16. Class 13.

General Cellulose Company, Inc., The, Garwood, N. J. Toilet tissues, and more particularly facial tissues. Serial No. 646,125, Feb. 16. Class 37.

Good Grooming Products: *See*—
Walbridge, Norton S.

Gopher Grinders, Inc., Anoka, Minn. Continuous slicing bands. Serial No. 644,028, Feb. 16. Class 23.

Graham Paper Company, St. Louis, Mo. Wrapping paper. Serial No. 645,306, Feb. 16. Class 37.

Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Billfolds, key cases, traveling bags, etc. Serial No. 643,220, Feb. 16. Class 3.

Gremlins, Inc., Boston, Mass. Hosiery, jackets, jerkins, etc. Serial No. 640,855, Feb. 16. Class 39.

Gruber Industries, Inc., Royersford, Pa. Portable beach chairs. Serial No. 651,336, Feb. 16. Class 32.

Hammermill Paper Company, Erie, Pa. Writing and printing papers. Serial No. 646,864, Feb. 16. Class 37.

Hawley, John E., doing business as Derit Products Company, Compton, Calif. Natural food supplement. Serial No. 654,126, Feb. 16. Class 46.

Hirschberg, Schutz & Co. Inc., New York, N. Y. Lace edgings and insertions, embroidered edgings and insertions, garment trimmings, etc. Serial No. 627,746, Feb. 16. Class 40.

Hirschman-Pohle Company, Inc., Le Roy, N. Y. Roof ventilators. Serial No. 651,049, Feb. 16. Class 34.

Hoffmann-La Roche Inc., Nutley, N. J. Periodical. Serial No. 646,513, Feb. 16. Class 38.

Holly Knit, Inc., Mount Holly, N. C. Knitted fabrics. Serial No. 649,366, Feb. 16. Class 42.
Hoover Manufacturing and Sales Co., New York, N. Y. Piece goods. Serial No. 542,586, Feb. 16. Class 42.
Household Products Co., Evanston, Ill. Roasted coffee. Serial No. 648,858, Feb. 16. Class 46.
Hunsicker, Robert F., doing business as Allen Products Company, Allentown, Pa. Canned dog food. Serial No. 637,051, Feb. 16. Class 46.
Imperial Brass Manufacturing Company, The, Chicago, Ill. Driers employed in refrigeration systems. Serial No. 650,308, Feb. 16. Class 31.
International Accordion Manufacturing Company, East Detroit, Mich. Accordions. Serial No. 651,252, Feb. 16. Class 36.
International Nickel Company, Inc., The, New York, N. Y. Nickel alloys and alloys of nickel, chromium and iron. Serial Nos. 652,019–20, Feb. 16. Class 14.
Jaukas, Anton, doing business under the style name of Tok-N-Pac Mfg. Co., Chicago, Ill. Portable, flexible receptacles having a plurality of pockets for holding tokens, etc. Serial No. 648,493, Feb. 16. Class 3.
Johnson, John D., doing business as Air Engineering Company, Battle Creek, Mich. Air compressor valves. Serial No. 584,198, Feb. 16. Class 23.
Johnston, Inc., Dallas, Tex. Children's garments. Serial No. 647,190, Feb. 16. Class 39.
Jordan Manufacturing Corp., New York, N. Y. Children's bathing suits, trunks, and caps. Serial No. 648,605, Feb. 16. Class 39.
KMMJ, Inc.: *See*—
Town & Farm Co., Inc.
Kaleidoscope, Corona, N. Y. Book covers. Serial No. 645,152, Feb. 16. Class 37.
Kalker Trieurfabrik und Fabrik Gelochter Bleche, Mayer & Cie., Koln, Germany. Automatic, sorting, sifting, cleaning, and aerating appartaus. Serial No. 608,192, Feb. 16. Class 23.
Kaymet Company, The, London, England. Aluminum ware. Serial No. 645,154, Feb. 16. Class 13.
Kerr Wire Products Co., The, Chicago, Ill. Metal display stands, racks, and shelves. Serial No. 639,476, Feb. 16. Class 32.
Kling Factories: *See*—
Chautauqua Cabinet Company.
Kurtz Brothers Corporation: *See*—
Magic Chef Foods, Inc.
Landers, Frary & Clark, New Britain, Conn. Electric coffee makers. Serial No. 607,860, Feb. 16. Class 21.
Leathercraft Mfg. Company, Elmhurst, and New York, N. Y. Wallets. Serial No. 640,463, Feb. 16. Class 3.
Linotape Products Company: *See*—
Tenderich, Gertrude S.
Magic Chef Foods, Inc., Bridgeport, Conn., by change of name from Kurtz Brothers Corporation. Spaghetti, macaroni, and noodles. Serial No. 633,065, Feb. 16. Class 46.
Magic Chemical Company, Brockton, Mass. Anti-corrosive and anti-abrasive plastic rubber coating compounds; etc. Serial No. 607,709, Feb. 16. Class 16.
Mann, H. W., Salinas, Calif. Fresh vegetables. Serial No. 649,951, Feb. 16. Class 46.
Many, Blanc & Co., Inc.: *See*—
Schenley Industries, Inc.
Mark-Ette Products Corp., assignee: *See*—
Owens Manufacturing Co., Inc.
Mars, Incorporated, Chicago, Ill. Candy. Serial No. 650,819, Feb. 16. Class 46.
Masson Seeley and Company Limited, Westminster, London, England. Cutter-crush machines, embossing machines, and pressing machines, etc. Serial No. 570,441, Feb. 16. Class 23.
Master Vibrator Company, Dayton, Ohio. Power operated cement finishing machines. Serial No. 561,474, Feb. 16. Class 23.
Miller, Francis C., doing business as The Gamecraft Company, Red Lion, Pa. Board game. Serial No. 633,199, Feb. 16. Class 22.
Missouri Farmers Association, Inc., Columbia, Mo. Fertilizers, plant foods, and soil conditioners. Serial No. 644,245, Feb. 16. Class 10.
Mona Industries, Inc., Paterson, N. J. Paste detergent, nonionic detergent and wetting agent, etc. Serial No. 637,493, Feb. 16. Class 52.
Morishita Jintan Company Limited, Osaka, Japan. Deodorant preparation. Serial No. 647,707, Feb. 16. Class 51.
National Biscuit Company, New York, N. Y., and elsewhere throughout the United States. Bakery products. Serial No. 551,024, Feb. 16. Class 46.
National Biscuit Company, New York, N. Y., and elsewhere throughout the United States. Bakery products. Serial No. 551,026, Feb. 16. Class 46.
Neuman, Ch. J., Limited, South Croydon, Surrey, England. Grease guns. Serial No. 644,134, Feb. 16. Class 23.
New York Association for the Blind, Inc., The, New York, N. Y. Mops. Serial No. 606,030, Feb. 16. Class 29.
New York Silicate Book Slate Co., Inc., New York, N. Y. Chalkboard. Serial No. 634,159, Feb. 16. Class 50.
Nutrena Mills, Inc., Minneapolis, Minn. Vitamin enriched feeds. Serial No. 615,241, Feb. 16. Class 46.
Old Jordan Distillery: *See*—
Foster Trading Corporation, The.
Onsrud Machine Works, Inc., Chicago, Ill. Profile or contour milling machines and universal routing machines. Serial No. 646,160, Feb. 16. Class 23.
Optische Werke C. A. Steinheil Sohne G. m. b. H., Munich, Germany. Photographic and other objectives, oculars, telescopes, etc. Serial No. 637,140, Feb. 16. Class 26.
Opus, Ltd., New York, N. Y. Grooved phonograph records. Serial No. 640,645, Feb. 16. Class 36.
Our Own Distillery: *See*—
Foster Trading Corporation, The.
Owens Manufacturing Co., Inc., assignor to Mark-Ette Products Corp., Syracuse, N. Y. Solder. Serial No. 651,858, Feb. 16. Class 14.
Pellon Corporation, New York, N. Y. Non-woven fabric. Serial No. 651,287, Feb. 16. Class 42.
Perolin Company, Inc., The, Dover, Del., and New York, N. Y. Chemical compositions. Serial No. 640,408, Feb. 16. Class 6.
Phillips, Dr. P., Fertilizers Inc., Orlando, Fla. Fertilizers. Serial No. 649,663, Feb. 16. Class 10.
Phil-Mar Corporation: *See*—
Cleveland Ceramics Corporation.
Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. Serial No. 546,239, Feb. 16. Class 46.
Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. Serial No. 591,437, Feb. 16. Class 46.
Power Tool Rentals, Inc., Los Angeles, Calif. Rental of tools and equipment. Serial No. 618,240, Feb. 16. Class 103.
Premier Autoware Company, The, Cleveland, Ohio. Automotive parts and supplies. Serial No. 646,487, Feb. 16. Class 35.
Randall Graphite Bearings, Inc., Lima, Ohio. Ball assemblies for pillow blocks. Serial No. 619,520, Feb. 16. Class 23.
Red Cedar Pencil Company, Inc., The, Lewisburg, Tenn. Lead pencils. Serial No. 647,318, Feb. 16. Class 37.
Re-Ly-On Products Company, Pittsburgh, Pa. Sofa. Serial No. 651,537, Feb. 16. Class 32.
Revlon Products Corporation, New York, N. Y. Cleansing balm. Serial No. 624,972, Feb. 16. Class 51.
Reynolds & Reynolds Company, The, Dayton, Ohio. Accounting forms, blanks, etc. Serial No. 622,754, Feb. 16. Class 37.
River Raisin Paper Company, Monroe, Mich. Corrugated and solid paperboard sheets. Serial No. 647,097, Feb. 16. Class 37.
Riverside Paper Corporation, Appleton, Wis. Notebook tablets, and note books, and note book fillers. Serial No. 646,628, Feb. 16. Class 37.
Roethlisberger & Fils, S. A.: *See*—
Roethlisberger & Sohn A. G.
Roethlisberger & Sohn A. G., also known as Roethlisberger & Son Ltd., and Roethlisberger & Fils, S. A., Langnau, Berne Canton, Switzerland. Cheese. Serial No. 651,358, Feb. 16. Class 46.
Roethlisberger & Son Ltd.: *See*—
Roethlisberger & Sohn A. G.
S. A. R. L. Moltzer & Cie. Arcueil, France, assignee of Societe Anonyme Etablissements Laplace by change of name from Societe Anonyme des Etablissements Raspail. Alcoholic liqueurs. Serial No. 561,924, Feb. 16. Class 49.
Sales Tools, Inc., Chicago, Ill. Combined loose leaf binder and display stand. Serial No. 638,376, Feb. 16. Class 37.
Samuels, T. W., Distillery: *See*—
Foster Trading Corporation, The.
Schenley Industries, Inc., New York, N. Y., assignee of Many, Blanc & Co., Inc. Alcoholic cordials. Serial No. 629,116, Feb. 16. Class 49.
Schloss Bros. & Co. Inc., Baltimore, Md. Men's suits, individual coats and trousers, etc. Serial No. 644,931, Feb. 16. Class 39.
Schroeder Bros., Inc., New York, N. Y. Antipasto. Serial No. 627,556, Feb. 16. Class 46.
Seapak Corporation, St. Simons Island, Ga. Frozen raw shrimp. Serial No. 651,420, Feb. 16. Class 46.
Seattle Packing Company, Seattle, Wash. Cured and smoked bacon. Serial No. 649,539, Feb. 16. Class 46.
Shwayder Brothers, Inc., Ecorse, Mich. Combination coffee table and tray. Serial No. 647,661, Feb. 16. Class 32.
Smith, J. Fish, doing business as Fruzola Company, Salt Lake City, Utah. Prepared powder containing a sugar, fruit acid, flavoring and coloring. Serial No. 630,518, Feb. 16. Class 46.
Societa Ceramica Richard Ginori, Milan, Italy. "Small statues." Serial No. 616,302, Feb. 16. Class 50.
Societe Anonyme des Etablissements Raspail: *See*—
S. A. R. L. Moltzer & Cie.
Societe Anonyme Etablissements Laplace: *See*—
S. A. R. L. Moltzer & Cie.
So-Ten Company, The: *See*—
Strickland, J., & Co.
Spelrein Luggage Corporation, Brooklyn, N. Y. Ladies' and men's traveling bags, hand luggage, wardrobe suitcases, etc. Serial No. 616,062, Feb. 16. Class 3.
Staffin Johns Co., Inc., The, New York, N. Y. Mattresses. Serial No. 653,084, Feb. 16. Class 32.
Star Time Production Corporation, New York, N. Y. Trumpets. Serial No. 647,816, Feb. 16. Class 36.

Stern Brothers, New York, N. Y. Albums, rubber bands, looseleaf binders, calendar and memo pads, cleansing tissues, etc. Serial No. 639,502, Feb. 16. Class 37.
Stern Brothers, New York, N. Y. Albums, rubber bands, looseleaf binders, calendar and memo pads, cleansing tissues, etc. Serial No. 639,519, Feb. 16. Class 37.
Stevens, J. P., & Co., Inc., New York, N. Y. Flannel fabrics. Serial No. 639,852, Feb. 16. Class 42.
Stoddard, David, Bangor, Pa. Chalkboards. Serial No. 640,236, Feb. 16. Class 50.
Storkline Furniture Corporation, Chicago, Ill. Infants', nursery, and juvenile furniture. Serial No. 651,421, Feb. 16. Class 32.
Stratford Furniture Corporation, assignee: *See*—
Strat-O-Lounger, Inc.
Strat-O-Lounger, Inc., assignor to Stratford Furniture Corporation, Chicago, Ill. Chairs. Serial No. 623,378, Feb. 16. Class 32.
Strickland, J., & Co., doing business as The So-Ten Company, Memphis, Tenn. Meat tenderizer. Serial No. 645,270, Feb. 16. Class 46.
Supersonic Chemical Laboratories, Inc., Shreve, Ohio. Plastic sealer. Serial No. 635,153, Feb. 16. Class 12.
Tenderich, Gertrude S., doing business as Linotape Products Company, Denver, Colo. Strip of inert material in the form of a glass fibre tape, etc. Serial No. 600,360, Feb. 16. Class 50.
Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Storage and display cabinet. Serial No. 641,528, Feb. 16. Class 32.
Tok-N-Pac Mfg. Co.: *See*—
Jankas, Anton.
Topco Associates, Inc. (Cooperative), Chicago, Ill. Toilet tissues. Serial No. 644,469, Feb. 16. Class 37.
Topco Associates, Inc (Cooperative), Chicago, Ill. Facial tissues, paper napkins, paper towels and toilet tissues. Serial No. 644,471, Feb. 16. Class 37.
Topco Associates, Inc. (Cooperative), Chicago, Ill. Toilet tissues. Serial No. 646,334, Feb. 16. Class 37.
Town & Farm Co., Inc., Grand Island, Nebr., by change of name from KMMJ, Inc. Radio program broadcasting. Serial No. 614,303, Feb. 16. Class 104.
United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation. Flat band steel strapping dispensing units. Serial No. 632,964, Feb. 16. Class 23.
United States Steel Corporation: *See*—
United States Steel Company.
Universal Handkerchief Company, Inc., New York, N. Y. Handkerchiefs made of paper-like material. Serial No. 648,634, Feb. 16. Class 37.
Valcort Hosiery Corporation, New York, N. Y. Women's hosiery. Serial No. 649,403, Feb. 16. Class 39.
Vegetable Oil Products Company, Inc., Wilmington, Calif. Hydrogenated vegetable oil shortening. Serial No. 641,357, Feb. 16. Class 46.
Walbridge, Norton S., doing business as Good Grooming Products, Detroit, Mich. Waxed hair pomade. Serial No. 635,010, Feb. 16. Class 51.
Western Canners Co., Newport Beach, Calif. Canned fish. Serial No. 634,721, Feb. 16. Class 46.
Western Research & Laboratories Company, Elyria, Ohio. Dip applied, thermostatic, strippable coating compound. Serial No. 637,560, Feb. 16. Class 16.
White Tower Management Corporation, Stamford, Conn. Sandwiches including hamburgers and cheeseburgers, cookies, etc. Serial No. 587,062, Feb. 16. Class 46.
Whiting Corporation, Harvey, Ill. Motor drives and parts thereof. Serial No. 568,821, Feb. 16. Class 23.
Williams, David M., Hollywood, Calif. Razor blades. Serial No. 622,048, Feb. 16. Class 23.
Williams, Geo. L., Company, The, Cleveland, Ohio. Concentrated cleaner. Serial No. 637,510, Feb. 16. Class 52.
Worcester Baking Company, Worcester, Mass. Bread, rolls, and doughnuts. Serial No. 649,856, Feb. 16. Class 46.
Zuckerman-Mandeville Inc., Stockton, Calif. Fresh potatoes. Serial No. 604,246, Feb. 16. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

A. I. T. Diamond Tool Company, Chicago, Ill. Diamond abrasive wheels. 585,762, Feb. 16; Serial No. 643,453, published Nov. 10, 1953. Class 4.
Acme Staple Company, Camden, N. J. Stapling machines, binding machines, and tacking machines. 585,704, Feb. 16; Serial No. 636,452, published Oct. 27, 1953. Class 23.
Adelaide Dresses, Inc., St. Louis, Mo. Ladies', misses', and juniors' coats, suits, hosiery, etc. 585,646, Feb. 16; Serial No. 624,580, published Nov. 17, 1953. Class 39.
Aerosol Products Corporation, Chicago, Ill. Combination dye and cleaner. 585,685, Feb. 16; Serial No. 633,247, published Nov. 24, 1953. Class 52.
Agri-Indus Mfg. Co., Columbus, Ohio. Ground corn cob meal for use as a cleaning and polishing preparation. 585,633, Feb. 16; Serial No. 620,131, republished Nov. 24, 1953. Class 4.
Alatol, Incorporated, Philadelphia, Pa. Abrasive blackboard scrub block. 585,659, Feb. 16; Serial No. 627,917, published Nov. 10, 1953. Class 4.
Allied Chemical & Dye Corporation, New York, N. Y. Organic chemical intermediates. 585,799, Feb. 16; Serial No. 646,101, published Nov. 24, 1953. Class 6.
Allied Laboratories, Inc., Kansas City, Mo. Therapeutic composition. 585,812, Feb. 16; Serial No. 646,915, published Nov. 3, 1953. Class 18.
Altman, Joseph, San Francisco, Calif. Men's and young men's suits, topcoats, sport coats, etc. 585,631, Feb. 16; Serial No. 618,333, published Oct. 27, 1953. Class 39.
Amaza Laboratories, Macedonia, Ohio. Preparation for use in cleaning the hands. 585,607, Feb. 16; Serial No. 592,181, published Feb. 13, 1951. Class 52.
Ambler Asbestos Shingle & Sheathing Company, by Keasbey & Mattison Company, Ambler, Pa. Asbestos cement shingles. 310,755, Mar. 6, 1934. Republished Feb. 16. Class 12.
American Automobile Association, The, Washington, D. C. Road signs, emblems, and badges. 303,862, Jan. 13, 1933. Republished Feb. 16. Class 50.
American Blouse Co. Inc., New York, N. Y. Boys' inner and outer shirts and shorts. 585,617, Feb. 16; Serial No. 608,527, published Oct. 27, 1953. Class 39.
American Cyanamid Company, New York, N. Y. Antibiotic. 585,813, Feb. 16; Serial No. 646,916, published Nov. 3, 1953. Class 18.
American International Co.: *See*—
Chadwell, Paul A.
American Traverse Co., New York, N. Y. Venetian blinds, window shades, window cornice boxes, etc. 585,880, Feb. 16; Serial No. 646,721. Class 32.
American Vermiculite Company, Inc., Spruce Pine, N. C. Vermiculite and perlite. 585,753, Feb. 16; Serial No. 642,727, published Nov. 3, 1953. Class 1.
Amston Silver Company, Inc., Amston, Conn. Sterling silver flatware. 585,600, Feb. 16; Serial No. 573,700, published Nov. 10, 1953. Class 28.
Anderson, Rolf L., Mechanical Laboratories, Montclair, N. J. Dust pans. 585,860, Feb. 16; Serial No. 625,953. Class 13.
Ansbacher-Siegle Corporation, Rosebank, N. Y. Ingredients for dyestuffs and dyestuffs both dry and in solution. 585,822–3, Feb. 16; Serial Nos. 647,138–9, published Nov. 24, 1953. Class 6.
Aridor Company, The, assignee: *See*—
Jaques Manufacturing Company.
Arizona Chemical Company, New York, N. Y. Crude tall oil, tall oil pitch, and tall oil rosin. 585,814, Feb. 16; Serial No. 646,919 published Nov. 10, 1953. Class 1.
Arthel (Société d'Exploitation des Brevets Jacques Arthuys), Paris, France. Automatic heliostats and reflectors therefor. 307,602, renewed Oct. 31, 1953. O. G. Feb. 16. Class 34.
Asbestos Shingle, Slate & Sheathing Company, by Keasbey & Mattison Company, Ambler, Pa. Cold molded material for electrical insulation. 235,625, Nov. 22, 1927. Republished Feb. 16. Class 21.
Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Abrasive resistant coating composition. 585,605, Feb. 16; Serial No. 584,570, published Aug. 18, 1953. Class 16.
Auburn Rubber Company, Inc., Auburn, Ind. Rubber, composition, plastic, and cardboard toys. 585,843, Feb. 16; Serial No. 651,036, published Nov. 17, 1953. Class 22.
Ayr-Mor Machinery Company, Inc., Chicago, Ill. Dry cleaning machines and dry cleaning tumblers. 585,709, Feb. 16; Serial No. 636,874, published Nov. 17, 1953. Class 24.
Barnes Drill Co., Rockford, Ill. Drilling and boring machines. 585,681, Feb. 16; Serial No. 632,586, published Sept. 29, 1953. Class 23.
Barreled Sunlight Paint Company: *See*—
United States Gutta Percha Paint Company.
Barry, B. J., & Company, Inc., New York, N. Y. Heavy woven cotton fabric. 585,833, Feb. 16; Serial No. 647,830, published Nov. 17, 1953. Class 42.
Baskind, H. D., & Co., Inc., New York, N. Y. Men's and boys' outer shirts and dress shirts. 585,851, Feb. 16; Serial No. 606,256. Class 39.
Battenfeld Grease & Oil Corp., Kansas City, Mo. Caulking compound. 585,804–5, Feb. 16; Serial Nos. 646,355–6, published Nov. 17, 1953. Class 12.
Battista Cella, doing business as Roma Wine Company, Lodi, Calif., to Schenley Industries, Inc., New York, N. Y. Wines. 307,565, renewed Oct. 31, 1953. O. G. Feb. 16. Class 47.
Bayerdorffer, Max, doing business as Numberall Stamp & Tool Co., Huguenot Park, N. Y. Metal hand stamp. 585,655, Feb. 16; Serial No. 627,367, published Oct. 20, 1953. Class 23.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Tarpaulins and tents. 585,840, Feb. 16; Serial No. 648,358, published Nov. 17, 1953. Class 50.

Bendel, Henri, Inc., New York, N. Y. Liquid air freshener. 585,817, Feb. 16; Serial No. 646,980, published Nov. 24, 1953. Class 6.

Bendix Aviation Corporation: *See*—
Eclipse Machine Company.

Benray Manufacturing Company, Detroit, Mich. Artificial flowers. 585,703, Feb. 16; Serial No. 636,197, published Nov. 3, 1953. Class 50.

Berry, Gordon L., Columbus, Ohio. Food seasoning composition. 585,850, Feb. 16; Serial No. 605,460. Class 46.

Bethlehem Steel Company, Bethlehem, Pa. Galvanized steel sheets. 585,737, Feb. 16; Serial No. 640,544, published Nov. 17, 1953. Class 14.

Bierhaus, E., and Sons, Vincennes, Ind. Laundry bleach and cleanser. 585,648, Feb. 16; Serial No. 625,579, published Nov. 17, 1953. Class 52.

Birnie Company, Inc., The, Atlanta, Ga. Boys' and young men's jackets, overalls, jumpers, etc. 585,788, Feb. 16; Serial No. 645,378, published Oct. 27, 1953. Class 39.

Blue Bell, Inc., Greensboro, N. C. Men's and boys' blanket lined coats, Cossack coats and western shirts, etc. 585,797, Feb. 16; Serial No. 646,048, published Oct. 27, 1953. Class 39.

Blue Ridge Manufacturers, Incorporated, Baltimore, Md. Men's and boys' trousers, coats, overalls, etc. 585,746, Feb. 16; Serial No. 641,904, published Sept. 22, 1953. Class 39.

Bohlen Gross & Moyer, Allentown, Pa. Men's suits, topcoats, and sport coats. 585,785, Feb. 16; Serial No. 645,226, published Oct. 27, 1953. Class 39.

Borden Company, The, New York, N. Y. Frozen uncooked chicken, frozen vegetables, and frozen fruits. 585,634, Feb. 16; Serial No. 621,253, published Nov. 10, 1953. Class 46.

Boye Needle Company, The, Chicago, Ill. Pins for shank buttons. 585,859, Feb. 16; Serial No. 625,396. Class 40.

Brewer & Eliot, Inc., Boston, Mass. Lubricants. 585,650, Feb. 16; Serial No. 626,492, published Oct. 27, 1953. Class 15.

Brooks Brothers, Inc., New York, N. Y. Men's outer shirts. 585,767, Feb. 16; Serial No. 644,007, published Oct. 27, 1953. Class 39.

Brown & Bigelow, St. Paul, Minn. Pocket and household knives. 585,606, Feb. 16; Serial No. 585,311, published Aug. 8, 1950. Class 23.

Brown & Bigelow, St. Paul, Minn. Sleet scrapers, bottle openers, combination spoon and bottle openers, etc. 585,614, Feb. 16; Serial No. 606,968, published Aug. 12, 1952. Class 23.

Brown Company, Berlin, N. H. Paper towels. 585,846, Feb. 16; Serial No. 587,315. Class 37.

Brown Instrument Company, The, Philadelphia, Pa., by Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Measuring and controlling instruments and apparatus. 363,274, Dec. 20, 1938. Republished Feb. 16. Class 26.

Brown, R. J., Company, The, St. Louis, Mo. Anti-freeze. 585,739, Feb. 16; Serial No. 640,783, published Nov. 24, 1953. Class 6.

Brunsviga Maschinenwerke Aktiengesellschaft, Braunschweig, Germany. Calculating and adding machines and cash registers. 585,755, Feb. 16; Serial No. 643,284, published Sept. 8, 1953. Class 26.

Buckeye Products Company, The, Cincinnati, Ohio. Liquid parting agent. 585,720, Feb. 16; Serial No. 638,688, published Nov. 10, 1953. Class 1.

Bücking, Hans J., Alsfeld (Hessen), Germany. Men's, women's, and children's topcoats and overcoats; men's and women's suits; sport coats, etc. 585,724, Feb. 16; Serial No. 639,206, published Nov. 10, 1953. Class 39.

Bunny Bear, Inc., Everett, Mass. Portable collapsible enclosed and partly enclosed babies' cribs. 585,847, Feb. 16; Serial No. 601,423. Class 32.

Byk-Guiden Lomberg Chemische Fabrik G. m. b. H., Constance, Germany. Medications, chemical products for healing purposes and health care, etc. 585,742, Feb. 16; Serial No. 641,259, published Nov. 3, 1953. Class 18.

Cabot, Godfrey L., Inc.: *See*—
General Atlas Carbon Company.

Cadillac Stamp Company, Inc., Detroit, Mich. Steel stamps, embossing and marking dies, power and hand marking machines. 585,603, Feb. 16; Serial No. 582,404, published Aug. 4, 1953. Class 23.

Cahill, William D., Chicago, Ill. Colored translucent plastic Christmas tree ornaments. 585,770, Feb. 16; Serial No. 644,099, published Nov. 3, 1953. Class 50.

Callaway Mills Company, La Grange, Ga. Impregnating oil used in treating dusting cloths, etc. 585,691, Feb. 16; Serial No. 634,573, published Oct. 27, 1953. Class 6.

Callaway Products, Inc., New York, N. Y. Athletic clothing. 585,773, Feb. 16; Serial No. 644,218, published Sept. 29, 1953. Class 39.

Caltex of California, Inc.: *See*—
Caltex Sportswear Co. of California, Inc.

Caltex Sportswear Co. of California, Inc., Los Angeles, Calif., now by change of name Caltex of California, Inc. Women's and misses' girdles. 585,708, Feb. 16; Serial No. 636,631, published Nov. 17, 1953. Class 39.

Carey, Philip, Manufacturing Company, The, Cincinnati, Ohio. Accessories for air conditioning, heating, and ventilating systems. 585,597, Feb. 16; Serial No. 556,410, published Oct. 27, 1953. Class 12.

Carrier Engineering Company Limited, London, England. Machine for cleaning, rust-proofing, priming and painting sheet metal articles. 585,620, Feb. 16; Serial No. 612,307, published Oct. 20, 1953. Class 23.

Carrollton Manufacturing Company, Carrollton, Ohio. Hand-operated food choppers. 585,734, Feb. 16; Serial No. 640,259, published Sept. 29, 1953. Class 23.

Cellucord Corporation, The, New York, N. Y. Crushed or twisted cord. 585,783, Feb. 16; Serial No. 645,106, published Oct. 27, 1953. Class 7.

Chadwell, Paul A., doing business under the name of American International Co., Washington, D. C. Wax candles. 585,808, Feb. 16; Serial No. 646,654, published Oct. 27, 1953. Class 15.

Chase Chemical Company, Newark, N. J. Multivitamin preparation. 585,825, Feb. 16; Serial No. 647,265, published Nov. 3, 1953. Class 18.

Chatham Manufacturing Company: *See*—
Nashua Manufacturing Company.

Chemical Industries, Incorporated, New York, N. Y. Preparation for the treatment of athlete's foot. 585,820, Feb. 16; Serial No. 647,063, published Nov. 3, 1953. Class 18.

Cherry-Burrell Corporation, Chicago, Ill. Processing apparatus for dairy products and the like. 585,657, Feb. 16; Serial No. 627,494, published Aug. 18, 1953. Class 23.

Chicopee Mills, Inc., New York, N. Y. Diapers and diaper liners. 585,644, Feb. 16; Serial No. 624,124, published Oct. 27, 1953. Class 39.

Chi-Namel Paint and Varnish Company: *See*—
Minnesota Paints, Inc.

Clearfield Furs, Inc., Clearfield, Pa. Wearing apparel. 585,598, Feb. 16; Serial No. 569,813, published Oct. 27, 1953. Class 39.

Clinico, Inc., New York, N. Y. After-shampoo teery cloth cap. 585,721, Feb. 16; Serial No. 639,018, published Oct. 27, 1953. Class 39.

Cloth Laying Appliances Corp., Woodside, N. Y. Laying and spreading machines, pin bar tools, etc. 585,594, Feb. 16; Serial No. 504,032, published Sept. 29, 1953. Class 23.

Cloth Laying Appliances Corp., Woodside, N. Y. Laying and spreading machines, pin bar tools, etc. 585,595, Feb. 16; Serial No. 504,033, published Oct. 27, 1953. Class 23.

Cloth Laying Appliances Corp., Woodside, N. Y. Laying and spreading machines, pin bar tools, and tools consisting of metal slabs, etc. 585,596, Feb. 16; Serial No. 504,034, published Nov. 10, 1953. Class 23.

Clyde Associates Incorporated, New York, N. Y. Sportswear. 585,660, Feb. 16; Serial No. 628,092, published Nov. 17, 1953. Class 39.

Colorado Milling & Elevator Company, The, Denver, Colo. Self-rising flour. 311,949, renewed Apr. 10, 1954. O. G. Feb. 16. Class 46.

Colson Corporation (Incorporated May 27, 1953), The: *See*—
Colson Corporation, The.

Colson Corporation, The, assignor to The Colson Corporation (Incorporated May 27, 1953), Elyria, Ohio. Lift jacks, upender devices, industrial lifting and stacking trucks and parts thereof, etc. 585,602, Feb. 16; Serial No. 580,229, published Sept. 1, 1953. Class 23.

Columbia Records Inc., Bridgeport, Conn. Grooved phonograph records. 585,841, Feb. 16; Serial No. 648,588, published Nov. 17, 1953. Class 36.

Colvin, Mendenhall & Co., San Francisco, Calif. Investment advisory service. 585,845, Feb. 16; Serial No. 590,073, published Nov. 3, 1953. Class 100.

Continental Sales & Sewing Machine Co.: *See*—
Schneider, Dorothy.

Creese and Cook Company, Danvers, Mass. Calfskin leather. 585,774, Feb. 16; Serial No. 644,289, published Nov. 3, 1953. Class 1.

Crossett Chemical Company, Crossett, Ark., now by merger and change of name, The Crossett Company. Emulsifier consisting of dried soap used as additive in drilling muds. 585,732, Feb. 16; Serial No. 640,106, published Nov. 24, 1953. Class 6.

Crossett Chemical Company, Crossett, Ark., now by merger and change of name, The Crossett Company. Tall oil. 585,815, Feb. 16; Serial No. 646,924, published Nov. 10, 1953. Class 1.

Crossett Company, The: *See*—
Crossett Chemical Company.

Cyclops Steel Company, Inc., Titusville, by Universal-Cyclops Steel Corporation, Bridgeville, Pa. Steels. 246,002, Aug. 28, 1928. Republished Feb. 16. Class 14.

Dapag (1943) Limited, London, England. Overprinting, hand-driven machines. 585,728, Feb. 16; Serial No. 639,746, published Oct. 20, 1953. Class 23.

Dell, Samuel M., & Co., Inc., Baltimore, Md. Paint and similar type protective and decorative coating and surfacing brushes. 585,649, Feb. 16; Serial No. 626,369, published Nov. 17, 1953. Class 29.

Delta Gamma Fraternity, Columbus, Ohio. Fraternity bades, lapel buttons; scarf, lapel, and breast pins, etc. 585,700, Feb. 16; Serial No. 635,905, published Nov. 10, 1953. Class 28.

De Soto Paint & Varnish Co., Memphis, Tenn. Paint enamels. 585,613, Feb. 16; Serial No. 605,641, published Nov. 24, 1953. Class 16.

Diamond Calk Horseshoe Co., Duluth, Minn. Tinners' snips, heavy duty nippers, and carpenters' nippers. 585,695, Feb. 16; Serial No. 634,965, published Oct. 20, 1953. Class 23.

Doro Designs Inc., New York, N. Y. Scarfs. 585,756, Feb. 16; Serial No. 643,299, published Nov. 10, 1953. Class 39.

Dri-Wear Fur Processing Co., New York, N. Y. Chemical compound for use in cleaning and mothproofing of rugs, etc. 585,751, Feb. 16; Serial No. 642,451, published Nov. 17, 1953. Class 52.

Druid Hill Park Seed Corporation, Baltimore, Md. Preparation for seeding, fertilizing, and conditioning soil. 585,862, Feb. 16; Serial No. 631,276. Class 10.

Druid Hill Park Seed Corporation, Baltimore, Md. Preparation for seeding, fertilizing, and conditioning soil. 585,868, Feb. 16; Serial No. 636,210. Class 10.

Drywall Trim, Inc., New York, N. Y. Metal corner and edge guards for exterior wall board corners. 585,719, Feb. 16; Serial No. 638,640, published Oct. 27, 1953. Class 12.

Eagle Clothes, Inc., Brooklyn, N. Y. Men's clothing. 585,794, Feb. 16; Serial No. 645,877, published Oct. 27, 1953. Class 39.

Eagle Clothes, Inc., Brooklyn, N. Y. Men's clothing. 585,795, Feb. 16; Serial No. 645,883, published Oct. 27, 1953. Class 39.

Eastmor Leather Trading Corp., Gloversville, N. Y. Water repellent hides, skins, and suedes. 585,778, Feb. 16; Serial No. 644,833, published Nov. 10, 1953. Class 1.

Eclipse Machine Company, to Bendix Aviation Corporation, Elmira Heights, N. Y. Unitary electrical starting mechanism for internal combustion engines and parts thereof, etc. 304,785, renewed July 18, 1953. O. G. Feb. 16. Class 21.

Eisenhart's Dairy, Inc., York, Pa. Flavored water ice and sherbet. 585,854, Feb. 16; Serial No. 618,349. Class 46.

Eisenman, Charles, Company, to The Kaynee Company, Cleveland, Ohio. Sleeping garments. 95,208, renewed Feb. 3, 1954. O. G. Feb. 16. Class 39.

Equity Distilled Spirits: *See*—
Theonett & Co., Inc.

Fabrique d'Horlogerie Sindaco S. A., Muralto, Switzerland. Watches, alarm clocks and parts thereof, and watch and alarm clock cases. 585,702, Feb. 16; Serial No. 636,068, published Nov. 10, 1953. Class 27.

Fairchild Camera and Instrument Corporation, Jamaica, N. Y. Printing equipment. 585,642, Feb. 16; Serial No. 623,407, published Aug. 25, 1953. Class 23.

Fawick Airflex Company, Inc., The, Cleveland, Ohio, assignor to Federal Fawick Corporation. Industrial and marine clutches, marine power transmissions, industrial brakes, etc. 585,635–6, Feb. 16; Serial Nos. 621,663–4, published Oct. 27, 1953. Class 23.

Federal Fawick Corporation, assignee: *See*—
Fawick Airflex Company, Inc., The.

First National Bank of Chicago, The, executor, trustee: *See*—
Schwab, Martin C.

Flintkote Company, The, New York, N. Y. Plastic antislip floor coating. 585,662, Feb. 16; Serial No. 629,004, published Nov. 17, 1953. Class 16.

Foreston Coal Co., Inc., New York, N. Y. Coal. 585,652, Feb. 16; Serial No. 627,059, published Nov. 3, 1953. Class 1.

Forston, Claude E., Houston, Tex. Room air conditioning units. 585,878, Feb. 16; Serial No. 640,334. Class 34.

Fuller Brush Company, The, Hartford, Conn. General purpose liquid disinfectant. 585,826, Feb. 16; Serial No. 647,286, published Nov. 24, 1953. Class 6.

Fuller Brush Company, The, Hartford, Conn. Air deodorant. 585,827, Feb. 16; Serial No. 647,289, published Nov. 24, 1953. Class 6.

Gatmart Inc., New York, N. Y. Textile fabrics. 585,839, Feb. 16; Serial No. 648,242, published Nov. 17, 1953. Class 42.

Gee Kaye Educational Toys, Inc., New York, N. Y. Educational question and answer game. 585,725, Feb. 16; Serial No. 639,271, published Nov. 17, 1953. Class 22.

General Atlas Carbon Company, New York, N. Y., to Godfrey L. Cabot, Inc., Boston, Mass. Carbon black. 308,853, renewed Dec. 26, 1953. O. G. Feb. 16. Class 6.

General Tire & Rubber Company, The, Akron, Ohio. Polymerization inhibitor. 585,738, Feb. 16; Serial No. 640,623, published Nov. 17, 1953. Class 6.

Georgia Hardwood Lumber Company, Augusta, Ga., by Georgia-Pacific Plywood Company, New York, N. Y. Periodical publication. 441,350, Nov. 16, 1948. Republished Feb. 16. Class 38.

Georgia-Pacific Plywood Company: *See*—
Georgia Hardwood Lumber Company.

Geraetebau-Anstalt, Balzers, Liechtenstein. Rotary oil pumps, valves and other parts thereof, etc. 585,647, Feb. 16; Serial No. 624,739, published Apr. 14, 1953. Class 23.

Gernsback, Hugo, doing business as Sexology Magazine, New York, N. Y. Monthly publications. 305,558, Aug. 22, 1933. Republished Feb. 16. Class 38.

Gillespie & Sons, Vancouver, British Columbia, Canada. Composition for the removal of all foreign substance from and the preservation of the metal in steam boilers, etc. 585,705, Feb. 16; Serial No. 636,564, published Nov. 24, 1953. Class 52.

Glass Tint Corporation, doing business under the business name and style of Spray-A-Tint, Chicago, Ill. Liquid glass tint. 585,798, Feb. 16; Serial No. 646,067, published Nov. 24, 1953. Class 6.

Goerlich's, Toledo, Ohio. Mufflers for use with internal combustion engines and extensions for tail pipes. 585,771, Feb. 16; Serial No. 644,172, published Oct. 20, 1953. Class 23.

Goldberg, Lester: *See*—
Theonett & Co., Inc.

Goldberger Doll Manufacturing Co. Inc., Brooklyn, N. Y. Dolls. 585,832, Feb. 16; Serial No. 647,773, published Nov. 17, 1953. Class 22.

Good Will Assistance Association, Allentown, Pa. Hospital beds, wheel chairs, crutches, etc. 585,780, Feb. 16; Serial No. 644,981, published Nov. 17, 1953. Class 44.

Gould, Barbara, Inc.: *See*—
Wertheimer, E., et Cie.

Green, Ira, Inc., New York, N. Y. Gold plated insignia with combined locket. 585,683, Feb. 16; Serial No. 633,055, published Nov. 10, 1953. Class 28.

Green Thumb Products, Toledo, Ohio. Garden hose. 585,701, Feb. 16; Serial No. 635,966, published Nov. 17, 1953. Class 35.

Gustin-Kramer Company, Boston, Mass. Ironing board covers and pads and combinations of ironing board covers and pads. 585,663, Feb. 16; Serial No. 629,488, published Nov. 17, 1953. Class 24.

Haggar Company, Dallas, Tex. Men's slacks. 585,718, Feb. 16; Serial No. 638,417, published Oct. 27, 1953. Class 39.

Hart Schaffner & Marx, Chicago, Ill. Men's and boys' articles of clothing, and women's and misses' articles of clothing. 585,779, Feb. 16; Serial No. 644,842, published Sept. 29, 1953. Class 39.

Hawley & Hoops, New York, N. Y., by Hollywood Brands, Inc., Centralia, Ill. Candy, chocolates and bonbons. 61,349, Mar. 19, 1907. Republished Feb. 16, 1954. Class 46.

Hecht Bros.: *See*—
Hecht Co., The.

Hecht Co., The, doing business as The Hub and Hecht Bros., Washington, D. C., and Baltimore, Md., to The Hecht Co., Washington, D. C. Household and store refrigerators. 310,844, renewed Mar. 13, 1954. O. G. Feb. 16. Class 31.

Hellige, Inc., Long Island City, N. Y. Photoelectric colorimeter and density comparison and measuring instrument. 585,623, Feb. 16; Serial No. 613,989, published Sept. 8, 1953. Class 26.

Henderson Electric Company: *See*—
Henderson, Robert H.

Henderson, Robert H., doing business as Henderson Electric Company, East Orange, N. J. Hand manipulated benders. 585,856, Feb. 16; Serial No. 622,775. Class 23.

Herbert George Co., Chicago, Ill. Cameras and parts thereof. 585,653, Feb. 16; Serial No. 627,125, published Aug. 18, 1953. Class 26.

Hercules Powder Company, Wilmington, Del. Cotton fibers. 585,818, Feb. 16; Serial No. 647,006, published Nov. 10, 1953. Class 1.

Hobson, Jay G., doing business as Rigident Products Company, Los Angeles, Calif. Powder retainer for false teeth. 585,714, Feb. 16; Serial No. 637,586, published Oct. 27, 1953. Class 51.

Hoffman Lion Mills Company, Incorporated, Fall River, Mass. Cord. 585,790, Feb. 16; Serial No. 645,708, published Oct. 27, 1953. Class 7.

Hofheimer's, Inc., Norfolk, Richmond, and Portsmouth, to Hofheimer's, Inc., Norfolk, Va. Shoes. 311,684, renewed Apr. 3, 1954. O. G. Feb. 16. Class 39.

Hollins, William, and Company, Limited, Mansfield, Radford, Nottingham, Bridgeton, and London, England, and Glasgow, Scotland. Woolen piece goods and hair cloth. 63,690, July 2, 1907. Amended. O. G. Feb. 16. Class 42.

Holly Wood Brands, Inc.: *See*—
Hawley & Hoops.

Holyoke Belting Company, Holyoke, Mass. Leather belting. 585,807, Feb. 16; Serial No. 646,472, published Nov. 17, 1953. Class 35.

Household Products Co., Chicago, to Household Products Company, Evanston, Ill. Canned fish and sea food. 307,601, renewed Oct. 31, 1953. O. G. Feb. 16. Class 46.

Household Products Company: *See*—
Household Products Co.

House of Huston, Inc., Coral Gables, Fla. Bird seed, fish food, and turtle food. 585,883, Feb. 16; Serial No. 650,508. Class 46.

Hub, The: *See*—
Hecht Co., The.

Huff, Alice R., Concord, Calif. Games. 585,787, Feb. 16; Serial No. 645,312, published Nov. 17, 1953. Class 22.

Ideal Toy Corporation, Hollis, N. Y. Dolls. 585,696–7, Feb. 16; Serial No. 635,035–6, published Nov. 17, 1953. Class 22.

Imperial Chemical Industries Limited, London, England. Agricultural and horticultural sprayers, carburetors, copper plate printing presses, etc. 585,608, Feb. 16; Serial No. 594,789, published Oct. 27, 1953. Class 23.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Corrosion-resistant steel alloy. 585,816, Feb. 16; Serial No. 646,965, published Nov. 17, 1953. Class 14.

Isgo Wall Paper Corporation, Chicago, Ill. Wall paper. 585,857, Feb. 16; Serial No. 623,766. Class 37.

Jaques Manufacturing Company, assignor to The Aridor Company, Chicago, Ill. Closure caps for cans, jars, and bottles. 585,679, Feb. 16; Serial No. 632,427, published Nov. 10, 1953. Class 50.

Jay Dee Products Co., Inc., Brooklyn, N. Y. Drinking straws. 585,796, Feb. 16; Serial No. 645,895, published Nov. 3, 1953. Class 50.

Jaystik Sales: *See*—
Stickley, John C.

Jenkins Bros., New York, N. Y., to Jenkins Bros., New York, N. Y., and Bridgeport, Conn. Valved nozzles. 308,181, renewed Nov. 21, 1953. O. G. Feb. 16. Class 13.

Jenkins, G. C., Co., Decatur, Ill. Celesta and celestette, piano keyboard instruments, chimes, etc. 585,715, Feb. 16; Serial No. 637,925, published Nov. 17, 1953. Class 36.

Jergens, Andrew, Company, The, Cincinnati, Ohio. Face cream. 585,757, Feb. 16; Serial No. 643,329, published Nov. 17, 1953. Class 51.

Jolson, Leon, doing business under the name of Jolson Sewing Machine Co., New York, N. Y. Sewing machines, sewing machine parts, sewing machine supplies, etc. 585,639, Feb. 16; Serial No. 622,022, published Aug. 4, 1953. Class 23.

Jolson Sewing Machine Co.: *See*—
Jolson, Leon.

Jordan, Samuel L., Montgomery, Ala. Mechanical exercising devices. 585,793, Feb. 16; Serial No. 645,808, published Nov. 17, 1953. Class 22.

Karchmar Company, Inc., New York, N. Y. Women's and girls' hosiery. 585,619, Feb. 16; Serial No. 610,077, published Nov. 3, 1953. Class 39.

Kaynee Company, The: *See*—
Eisenman, Charles, Company.

Kensbey & Mattison Company: *See*—
Ambler Asbestos Shingle & Sheathing Company.
Asbestos Shingle, Slate & Sheathing Company.

Keasbey & Mattison Company, Ambler, Pa. Asbestos product. 327,229, Aug. 20, 1935. Republished Feb. 16, Class 12.

Keasbey & Mattison Company, Ambler, Pa. Asbestos-cement boards, asbestos-cement sheets, asbestos-cement lumber, etc. 365,563, Mar. 14, 1939. Republished Feb. 16. Class 12.

Keasbey & Mattison Company, Ambler, Pa. Fire-resistant building boards, insulating and sound-deadening boards, etc. 397,198, Aug. 25, 1942. Republished Feb. 16. Class 12.

Keasbey & Mattison Company, Ambler, Pa. Publication. 444,055, June 27, 1950. Republished Feb. 16. Class 38.

Kelly, R. A., Co., The, Xenia, Ohio. Sisal rope and twine. 585,801, Feb. 16; Serial No. 646,222, published Oct. 27, 1953. Class 7.

Keuffel & Esser Company, Hoboken, N. J. Drafting ruling pens. 585,626, Feb. 16; Serial No. 616,323, published Aug. 18, 1953. Class 26.

Knost, Lloyd H., doing business as Reed Engineering Company, Carthage, Mo. Plate bending rolls, slip roll forming machines, tank turning rolls, etc. 585,810, Feb. 16; Serial No. 646,775, published Oct. 27, 1953. Class 23.

Kool Vent Metal Awning Corporation of America, Pittsburgh, Pa. Metal awnings. 585,775, Feb. 16; Serial No. 644,673, published Oct. 27, 1953. Class 12.

Koppers Company, Inc., Pittsburgh, Pa. Polyalkyl hydroxybenzene. 585,640, Feb. 16; Serial No. 623,146, published Sept. 23, 1952. Class 6.

Lakeside Gravel Company, Bellevue, Wash. Concrete building blocks and bricks. 585,729, Feb. 16; Serial No. 639,940, published Nov. 17, 1953. Class 12.

Lambert Company, The, doing business as John Hudson Moore Co. Division of The Lambert Company, Newark, N. J., and New York, N. Y. Cologne, after-shaving lotion, hair lotion, etc. 585,874, Feb. 16; Serial No. 637,999. Class 51.

La Resista Corset Company, The, Bridgeport, Conn. Brassières. 585,875, Feb. 16; Serial No. 638,722. Class 39.

Larus & Brother Company, Richmond, Va. Tobacco and tobacco products. 585,853, Feb. 16; Serial No. 616,560. Class 17.

Lazarus Labortaories, Inc., Division of West Disinfecting Company, Buffalo, N. Y. Liquid detergent germicide cleaner. 585,758, Feb. 16; Serial No. 643,345, published Nov. 24, 1953. Class 52.

Lee, Frank H., Company, The, Danbury, Conn. Hat bands. 585,876, Feb. 16; Serial No. 639,760. Class 39.

Lennox Furnace Company, The, Marshalltown, Iowa. Portable cooking units. 585,849, Feb. 16; Serial No. 602,035. Class 34.

Lenthéric, Incorporated, New York, N. Y. Hair-dressing and setting lotion. 585,736, Feb. 16; Serial No. 640,464, published Oct. 27, 1953. Class 51.

Lenthéric, Incorportaed, New York, N. Y. Cologne and shave lotion. 585,802, Feb. 16; Serial No. 646,225, published Oct. 27, 1953. Class 51.

Les Parfums de Dana, Inc., New York, N. Y. Perfume, cologne, toilet water, etc. 585,710, Feb. 16; Serial No. 637,054, published Oct. 27, 1953. Class 51.

Lieber & Lerner, New York, N. Y. Watches. 585,765, Feb. 16; Serial No. 643,966, published Nov. 10, 1953. Class 27.

Liquid Veneer Corporation, Buffalo, N. Y. Polish. 307,543, renewed Oct. 31, 1953. O. G. Feb. 16. Class 4.

Lyon Metal Products, Incorporated, Aurora, Ill. Service carts, basket trucks, wheeled chair trucks, etc. 585,612, Feb. 16; Serial No. 605,431, published Nov. 17, 1953. Class 19.

M. K. M. Hosiery Mills, Inc., Boston and Jamaica Plain, Boston, Mass. Ladies' hosiery. 585,776, Feb. 16; Serial No. 644,674, published Nov. 3, 1953. Class 39.

Magnaflux Corporation, Chicago, Ill. Cleaners, colored penetrants, and developers. 585,864, Feb. 16; Serial No. 632,163. Class 52.

Mallory, P. R., & Co., Inc., Indianapolis, Ind. Welding electrodes, tips and shanks. 585,632, Feb. 16; Serial No. 618,460, published Nov. 17, 1953. Class 14.

Mallory, P. R., & Co., Inc., Indianapolis, Ind. Welding electrodes. 585,730, Feb. 16; Serial No. 640,003, published Nov. 17, 1953. Class 14.

Manhattan Shirt Company, The, New York, N. Y. Men's outer dress and sport shirts, pajamas, handkerchiefs, etc. 585,789, Feb. 16; Serial No. 645,656, published Oct. 27, 1953. Class 39.

Manifold Supplies Company, Brooklyn, N. Y. Inked ribbons. 585,643, Feb. 16; Serial No. 623,422, published Nov. 17, 1953. Class 11.

Marcalus Manufacturing Co. Inc., East Paterson, N. J. Paper handkerchiefs. 585,858, Feb. 16; Serial No. 624,200. Class 37.

Marlboro Shirt Company, Inc., Baltimore, Md. Men's and boys' dress and sport shirts. 585,693, Feb. 16; Serial No. 634,907, published Sept. 29, 1953. Class 39.

Marques de Elorza: *See*—
Old Empire Manufacturing Chemists, Incorporated.

Maryland Paper Products Co., Baltimore, Md. Drinking straws. 585,768, Feb. 16; Serial No. 644,043, published Nov. 3, 1953. Class 50.

May Department Stores Company, The, New York, N. Y., Akron and Cleveland, Ohio, Baltimore, Md., Los Angeles, Calif., and Denver, Colo., also doing business as Famous-Barr Company, St. Louis, Mo. Men's, boys', and youths' shorts, etc. 381,667, Oct. 1, 1940. Amended. O. G. Feb. 16. Class 39.

Mayer, Oscar, & Co., Inc.: *See*—
Vogt, F. G., & Sons, Inc.

Menner Packing Corp., Maplewood, N. J. Canned rice with beef in gravy. 585,870, Feb. 16; Serial No. 636,723. Class 46.

Mercury Sportswear, Inc., New Haven, Conn. Ladies' and children's bathing suits. 585,873, Feb. 16; Serial No. 637,782. Class 39.

Merlino, Angelo, & Sons, Seattle, Wash. Olive oil. 585,599, Feb. 16; Serial No. 571,448, published Nov. 10, 1953. Class 46.

Metalastik Limited, Leicester, England. Anti-vibration and shock absorbing mountings and supports for machines, etc. 585,616, Feb. 16; Serial No. 608,321, published Sept. 29, 1953. Class 23.

Michaels, Stern & Company, Incorporated, Rochester, N. Y. Men's suits, coats, and trousers. 585,651, Feb. 16; Serial No. 626,689, published Oct. 27, 1953. Class 39.

Midland Grocery Company, The, Columbus, Ohio. Canned fruits and vegetables, canned fish, etc. 424,956, Oct. 29, 1946. Republished Feb. 16. Class 46.

Minerva Motors, Berchem, near Antwerp, by Societe Anonyme Societe Nouvelle Minerva, Liege, Belgium. Transmission apparatus and explosion-motors. 89,131, Nov. 12, 1912. Republished Feb. 16. Class 23.

Minneapolis-Honeywell Regulator Company: *See*—
Brown Instrument Company, The.

Minnesota Paints, Inc., doing business as Chi-Namel Paint and Varnish Company, Minneapolis, Minn. Paint brushes. 585,844, Feb. 16; Serial No. 651,930, published Nov. 17, 1953. Class 29.

Modi-Graphic Inc., Cincinnati, Ohio. Cameras. 585,733, Feb. 16; Serial No. 640,220, published Sept. 1, 1953. Class 26.

Monsanto Chemical Company, St. Louis, Mo. Anti-freeze solutions. 585,680, Feb. 16; Serial No. 632,533, published Feb. 24, 1953. Class 6.

Moore, John Hudson, Co. Division of The Lambert Company: *See*—
Lambert Company, The.

Moore & Munger, New York, N. Y. Beater additive or size used in the manufacture of coated paper. 585,828–9, Feb. 16; Serial Nos. 647,307–8, published Nov. 24, 1953. Class 6.

Morszeck, Richard. Koln-Junkersdorf, Germany. Trunks. 585,687, Feb. 16; Serial No. 634,020, published Nov. 10, 1953. Class 3.

Musica Argentina e Internacional Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina. Grooved phonograph records. 585,682, Feb. 16; Serial No. 632,949, published Nov. 17, 1953. Class 36.

Myrna Knitwear, Inc., New York, N. Y. Men's and boys' sport shirts, polo shirts, and T shirts. 585,668, Feb. 16; Serial No. 630,338, published Oct. 27, 1953. Class 39.

Nashua Manufacturing Company, Boston, Mass., by Chatham Manufacturing Company, Elkin, N. C. Blankets. 372,008, Oct. 17, 1939. Republished Feb. 16. Class 42.

National Cine Equipment, Inc., New York, N. Y. Combined television and motion picture camera dolly and hydraulic lift. 585,627, Feb. 16; Serial No. 617,671, published Aug. 18, 1953. Class 26.

National Drug Company, The, Philadelphia, Pa. Lozenges. 500,644, June 15, 1948. Amended. O. G. Feb. 16. Class 18. (Formerly class 6.)

National Laboratories, Inc., Toledo, Ohio. Liquid for cleaning surfaces of glass, wood, porcelain, painted walls, and the like. 585,713, Feb. 16; Serial No. 637,284, published Nov. 24, 1953. Class 52.

National Silver Company, New York, N. Y. Base metal table cutlery. 585,791, Feb. 16; Serial No. 645,725, published Oct. 27, 1953. Class 23.

Naumkeag Steam Cotton Company, Salem, Mass. Sheets and pillow cases. 94,923, re-renewed Jan. 13, 1954. O. G. Feb. 16. Class 42.

Neptune Specialties, Inc., Brooklyn, N. Y. Foul weather clothing. 585,618, Feb. 16; Serial No. 608,666, published Sept. 9, 1952. Class 39.

Newhall Game Company: *See*—
Newhall, Stanley B.

Newhall, Stanley B., doing business as Newhall Game Company, Tucson, Ariz. Game device. 585,748, Feb. 16; Serial No. 642,158, published Nov. 17, 1953. Class 22.

New Jersey Charcoal Co., Irvington, N. J. Charcoal. 585,772, Feb. 16; Serial No. 644,186, published Nov. 3, 1953. Class 1.

New York Feather Co., Inc., Brooklyn, N. Y. Pillows and cushions. 585,881, Feb. 16; Serial No. 648,259. Class 32.

Nordberg Manufacturing Company, Milwaukee, Wis. Internal combustion power plants. 585,611, Feb. 16; Serial No. 604,102, published Oct. 6, 1953. Class 23.

Northwest Mfg. Co., Mitchell, S. Dak. Liquid fuel burning attachment. 585,855, Feb. 16; Serial No. 620,168. Class 34.

Nuclear Instrument and Chemical Corporation, Chicago, Ill. Radio-active radiation apparatus. 585,604, Feb. 16; Serial No. 583,110, published Sept. 1, 1953. Class 26.

Numberall Stamp & Tool Co.: *See*—
Bayerdorffer, Max.

Old Empire Manufacturing Chemists, Incorporated, doing business under the style Marques de Elorza, Newark, N. J. Perfumes, eau de cologne, stick cologne. 585,672, Feb. 16; Serial No. 630,905, published Nov. 17, 1953. Class 51.

Packard Motor Car Company, Detroit, Mich. Vehicles. 585,706, Feb. 16; Serial No. 636,601, published Nov. 17, 1953. Class 19.

Paramount Garment Company, Chicago, Ill. Vinyl or other plastic coated fabrics simulating leather. 585,786, Feb. 16; Serial No. 645,254, published Nov. 10, 1953. Class 50.

Parker Brothers, Inc., Salem, Mass. Board game. 585,749, Feb. 16; Serial No. 642,417, published Nov. 17, 1953. Class 22.

Peridome, Ltd., New York, N. Y. Ontical instrument. 585,747, Feb. 16; Serial No. 641,963, published Aug. 18, 1953. Class 26.

Pettfish Company: *See*—
Townsend, Albert L.

Phenix Works, S. A., Flemalle-Haute, Belgium. Galvanized sheet iron, leaded sheet iron and galvanized hoop iron. 307,951, renewed Nov. 14, 1953. O. G. Feb. 16. Class 14.

Phenix Works, S. A., Flemalle-Haute, Belgium. Galvanized sheet iron. 307,952, renewed Nov. 14, 1953. O. G. Feb. 16. Class 14.

Philadelphia and Reading Coal and Iron Company, The, Philadelphia, Pa. Anthracite porous media used as a filtering agent. 585,861, Feb. 16; Serial No. 628,955. Class 31.

Phoenix Fuel Company, Louisville, Ky. Bituminous coal. 585,777, Feb. 16; Serial No. 644,781, published Nov. 10, 1953. Class 1.

Pillsbury Flour Mills Company, by Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 244,073, July 10, 1928. Republished Feb. 16. Class 46.

Pillsbury Mills, Inc.: *See*—
Pillsbury Flour Mills Company.

Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour, enriched wheat flour, self-rising wheat flour, etc. 585,609, Feb. 16; Serial No. 595,153, published Nov. 3, 1953. Class 46.

"Pilotlab," Evans City, Pa. Spices. 585,884, Feb. 16; Serial No. 652,151. Class 46.

Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Cement and mortar. 585,781, Feb. 16; Serial No. 645,006, published Oct. 27, 1953. Class 12.

Plastic Industries, Inc., Kansas City, Mo. Plastic boats. 585,726, Feb. 16; Serial No. 639,390, published Nov. 17, 1953. Class 19.

Platt Luggage, Inc., Chicago, Ill. Men's hand luggage, and women's hand luggage. 585,830, Feb. 16; Serial No. 647,367, published Nov. 10, 1953. Class 3.

Plattner Company, Inc., Kansas City, Mo. Combs. 585,838, Feb. 16; Serial No. 648,192, published Nov. 17, 1953. Class 40.

Point Sal Growers and Packers, Guadalupe, Calif. Fresh vegetables. 585,869, Feb. 16; Serial No. 636,491. Class 46.

Precision Automotive Components Co., St. Louis, Mo. Assorted carburetor repair parts. 585,867, Feb. 16; Serial No. 634,914. Class 23.

Primrose House, Inc., Indianapolis, Ind. Eye shadow. 585,800, Feb. 16; Serial No. 646,165, published Oct. 27, 1953. Class 51.

Princeton Knitting Mills, Inc., New York, N. Y. Knitted fabrics. 585,834, Feb. 16; Serial No. 648,044, published Nov. 17, 1953. Class 42.

Procter & Gamble Company, The: *See*—
Pyle, James, & Sons.

Proctor Electric Company, Philadelphia, Pa. Ironing-board pad and cover sets, and ironing tables. 585,865, Feb. 16; Serial No. 632,742. Class 24.

Pryne & Co., Pomona, Calif. Kitchen ventilating fan. 585,848, Feb. 16; Serial No. 601,847. Class 34.

Purcupile, Augusta K., Alhambra, Calif. Chart tracing patterns. 585,637, Feb. 16; Serial No. 621,902, published Nov. 17, 1953. Class 40.

Puritan Compressed Gas Corporation, Kansas City, Mo. Oxygen humidifiers. 585,654, Feb. 16; Serial No. 627,148, published Oct. 27, 1953. Class 44.

Pyle, James, & Sons, New York, N. Y., to The Procter & Gamble Company, Cincinnati, Ohio. Washing compounds. 40,823, re-renewed July 28, 1953. O. G. Feb. 16. Class 52.

Quest Manufacturing Company, Chicago, Ill. Typewriter carbon paper. 585,792, Feb. 16; Serial No. 645,729, published Nov. 17, 1953. Class 11.

Radiant Manufacturing Corporation, Chicago, Ill. Glass beaded fabrics used in cut sizes as motion picture projection screens. 585,678, Feb. 16; Serial No. 632,100, published Aug. 18, 1953. Class 26.

Ramseier, Al: *See*—
Ramseier, Elva F.

Ramseier, Elva F., doing business under the assumed name of Al Ramseier, Corvallis, Oreg. Celluloid type finish coatings. 585,688, Feb. 16; Serial No. 634,115, published Nov. 24, 1953. Class 16.

Rand McNally & Company, Skokie, Ill. Toy model raft construction kits. 585,836, Feb. 16; Serial No. 648,133, published Nov. 17, 1953. Class 22.

Rarolite Chemical Co., Inc., Raritan, N. J. Printing inks. 585,622, Feb. 16; Serial No. 613,574, published Nov. 17, 1953. Class 11.

Reconstruction Finance Corporation, assignee: *See*—
Shurhit Products, Inc.

Reed Engineering Company: *See*—
Knost, Lloyd H.

Reichhold Chemicals, Inc., Detroit, Mich. Chemical intermediate. 585,735, Feb. 16; Serial No. 640,305, published July 21, 1953. Class 6.

Reiss-Premier Corporation, The, West New York, N. J. Smokers' pipes. 585,882, Feb. 16; Serial No. 648,801. Class 8.

Revertex Limited, London, England. Quick setting compound composed of natural or synthetic resins with cementitious material. 585,671, Feb. 16; Serial No. 630,855, published Oct. 27, 1953. Class 12.

Rhoads, J. E., & Sons, Philadelphia, Pa., and Wilmington, Del., to J. E. Rhoads & Sons, Philadelphia, Pa. Flat leather belting, rounded leather belting, leather cord, etc. 95,667, re-renewed Mar. 3, 1954. O. G. Feb. 16. Class 35.

Richmond Rubber Company, Inc., Richmond, Va. Pneumatic rubber tires. 585,754, Feb. 16; Serial No. 643,048, published Nov. 17, 1953. Class 35.

Rigident Products Company: *See*—
Hobson, Jay G.

Rike-Kumler Company, The, Dayton, Ohio. Men's suits. 585,759, Feb. 16; Serial No. 643,436, published Oct. 27, 1953. Class 39.

Riley, William B., Ltd. Inc., Beverly Hills, Calif. Men's coats, trousers, suits, sweaters, etc. 585,661, Feb. 16; Serial No. 628,430, published Oct. 27, 1953. Class 39.

Roma Wine Company: *See*—
Battista Cella.

Royce Chemical Company, Carlton Hill, N. J. Hydrosulfides. 292,823, Mar. 29, 1932. Corrected. O. G. Feb. 16. Class 6.

Rudge-Whitworth Limited, Nottingham, England. Bicycles, tricycles, and parts thereof. 585,610, Feb. 16; Serial No. 599,021, published Nov. 17, 1953. Class 19.

Rudiger-Lang Co., Berkeley, Calif. Complete frameless window screen units. 585,824, Feb. 16; Serial No. 647,234, published Nov. 17, 1953. Class 12.

Russ, John, Canton, Ohio. Games. 585,676, Feb. 16; Serial No. 631,255, published Nov. 17, 1953. Class 22.

S. A. des Ciments Portland Liegeois, Haccourt, Belgium. Portland cement. 585,686, Feb. 16; Serial No. 633,632, published Oct. 27, 1953. Class 12.

Sagner's, A., Son, Baltimore, Md. Men's and women's coats and suits; men's trousers, etc. 585,624, Feb. 16; Serial No. 614,411, published Oct. 27, 1953. Class 39.

Schädler, Hans, Eilendorf, Germany. Sewing machines and parts therefor. 585,741, Feb. 16; Serial No. 641,252, published Aug. 18, 1953. Class 23.

Schenley Industries, Inc.: *See*—
Battista Cella.

Schlein, Samuel E., Inc., doing business under the name Westbrooke Clothes, New York, N. Y. Men's and young men's outer wearing apparel. 585,692, Feb. 16; Serial No. 634,808, published Oct. 27, 1953. Class 39.

Schlein, Samuel E., Inc., doing business under the name Westbrooke Clothes, New York, N. Y. Men's and young men's outer wearing apparel. 585,766, Feb. 16; Serial No. 643,979, published Nov. 3, 1953. Class 39.

Schneider, Dorothy, doing business as Continental Sales & Sewing Machine Co., Brooklyn, N. Y. Electric sewing machines. 585,784, Feb. 16; Serial No. 645,192, published Sept. 29, 1953. Class 23.

Schwab, Martin C., to The First National Bank of Chicago, executor and trustee under the will of M. C. Schwab, deceased, Chicago, Ill. Shampoo. 311,562, renewed Mar. 27, 1954. O. G. Feb. 16. Class 52.

Schwob, Theodore H., doing business under the firm name and style Schwob Watch Company, New York, N. Y. Watches; watch cases, and watch movements. 585,750, Feb. 16; Serial No. 642,443, published Nov. 10, 1953. Class 27.

Schwob Watch Company: *See*—
Schwob, Theodore H.

Sellstrom Manufacturing Company, Chicago, Ill. Industrial and sporting goggles, spectacles, welders' helmets, etc. 585,629, Feb. 16; Serial No. 618,254, published Aug. 18, 1953. Class 26.

Sellstrom Manufacturing Company, Chicago, Ill. Industrial and sporting goggles, spectacles, welders' helmets, etc. 585,630, Feb. 16; Serial No. 618,255, published Aug. 25, 1953. Class 26.

Selmer, H. & A., Inc., Elkhart, Ind. Twirling batons. 585,664–5, Feb. 16; Serial Nos. 629,527–8, published Nov. 17, 1953. Class 36.

Selmer, H. & A., Inc., Elkhart, Ind. Twirling batons. 585,666, Feb. 16; Serial No. 630,037, published Nov. 17, 1953. Class 36.

Sexology Magazine: *See*—
Gernsback, Hugo.

Shaw, Earl R., doing business as Tiedright Tie Company, Asheboro, N. C. Men's and boys' ties. 585,806, Feb. 16; Serial No. 646,436, published Oct. 27, 1953. Class 39.

Shelburne Shirt Co. Inc., New York, N. Y. Men's and boys' sport shirts. 585,879, Feb. 16; Serial No. 640,967. Class 39.

Shurhit Products, Inc., Waukegan, assignor to Reconstruction Finance Corporation, Chicago, Ill. Coils, contacts, springs, condensers, etc. 444,794, Feb. 16; Serial No. 508,860, published Apr. 21, 1953. Class 21.

Siegman, Arthur, Inc., New York, N. Y. Men's neckties and scarves. 585,803, Feb. 16; Serial No. 646,324, published Oct. 27, 1953. Class 39.

Silver Knit Hosiery Mills, Inc., High Point, N. C. Men's hosiery. 585,641, Feb. 16; Serial No. 623,319, published July 29, 1952. Class 39.

Simon, M. and D., Company Incorporated, Cleveland, Ohio. Men's sport shirts, and neckties. 585,863, Feb. 16; Serial No 631,877. Class 39.

Smith, Kline & French Laboratories, Philadelphia, Pa. Analgesic preparation. 585,821, Feb. 16; Serial No. 647,105, published Nov. 3, 1953. Class 18.

Smith and Wesson, Inc., Springfield, Mass. Revolvers. 585,831, Feb. 16; Serial No. 647,376, published Nov. 17, 1953. Class 9.

Snug-Fit Foundations Company, New York, N. Y. Brassières, foundations, and girdles. 585,694, Feb. 16; Serial No. 634,924, published Nov. 17, 1953. Class 39.

Società Accomandita Semplice Franco Cella & C., Milan, Italy. Soaps. 585,744, Feb. 16; Serial No. 641,748, published Nov. 24, 1953. Class 52.

Societe Anonyme Societe Nouvelle Minerva: *See*—
Minerva Motors.

Societe Rhodiaceta, Paris, France. Threads. 585,769, Feb. 16; Serial No. 644,073, published Nov. 17, 1953. Class 43.

Solar Aircraft Company, San Diego, Calif. Ceramic coated exhaust structures for internal combustion engines, etc. 585,752, Feb. 16; Serial No. 642,702, published Sept. 1, 1953. Class 23.

Special Screw Products Company, The, Bedford, Ohio. Tube couplings. 585,866, Feb. 16; Serial No. 632,957. Class 13.

Sponge Rubber Products Company, The, Shelton, Conn. Artificial respiration collars. 585,658, Feb. 16; Serial No. 627,649, published Nov. 3, 1953. Class 44.

Spray-A-Tint: *See*—
Glass Tint Corporation.

Standard Blade Co. Inc., New York, N. Y. Safety razor blades. 585 837, Feb. 16; Serial No. 648,141, published Aug. 25, 1953. Class 23.

Standard Brands Incorporated, New York, N. Y. Dough improver. 311,939, renewed Apr. 10, 1954. O. G. Feb. 16. Class 46.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Low-octane fuel composition useful for removing carbon and other combustion chamber deposits. 585,745, Feb. 16; Serial No. 641,749, published Oct. 27, 1953. Class 52.

Stark, Fred, Chicago, Ill. Toys and novelties. 585,690, Feb. 16; Serial No. 634,496, published Nov. 17, 1953. Class 22.

Stutter, Estella E., Olivet, S. Dak. Sanitary napkin belts. 585,727, Feb. 16; Serial No. 639,446, published Nov. 17, 1953. Class 44.

Stein, Hall & Company, Inc., New York, N. Y. Tapioca flour for further manufacture in the industrial arts. 585,760, Feb. 16; Serial No. 643,439, published Nov. 3, 1953. Class 1.

Steinberg Bros., New York, N. Y. Women's hosiery and girdles. 585,670, Feb. 16; Serial No. 630,520, published Nov. 17, 1953. Class 39.

Steiner-Lohman Dry Goods Company, Montgomery, Ala. Overalls, work pants, coveralls, etc. 585,764, Feb. 16; Serial No. 643,878, published Nov. 3, 1953. Class 39.

Sterling Machinery Corporation, Kansas City, Mo., and Los Angeles, Calif. Portable self-priming centrifugal pumps, power hoists and winches, portable wood-sawing rings, etc. 585,628, Feb. 16; Serial No. 618,133, published Sept. 1, 1953. Class 23.

Stickley, John C., doing business as Jaystik Sales, Atlanta, Ga. Puppets. 585,711, Feb. 16; Serial No. 637,152, published Nov. 17, 1953. Class 22.

Super Speed Press Corporation, Bridgeton, N. J. Metal cutting presses. 585,621, Feb. 16; Serial No. 613,201, published Sept. 1, 1953. Class 23.

Sutherland Paper Company, Kalamazoo, Mich. Cartons. 585,740, Feb. 16; Serial No. 640,817, published Nov. 17, 1953. Class 2.

Swedlin, J., Inc., New York, N. Y. Stuffed toy dogs. 585,842, Feb. 16; Serial No. 650,749, published Nov. 17, 1953. Class 22.

Taylor, Wm. A., Ltd., New York, N. Y. Men's neckties and lounging, beach and bath robes, scarves, etc. 585,731, Feb. 16; Serial No. 640,019, published Sept. 29, 1953. Class 39.

Technology Instrument Corporation, Waltham, Mass. Instruments for measuring the phase angle between alternating currents or voltages. 585,601, Feb. 16; Serial No. 577,620, published Sept. 1, 1953. Class 26.

Tennessee Products & Chemical Corporation, Nashville, Tenn. Plaster, concrete, cement, etc. 585,689, Feb. 16; Serial No. 634,424, published Oct. 27, 1953. Class 12.

Texas Harvest Hat Company, Laredo, Tex. Men's, ladies', and children's hats. 585,638, Feb. 16; Serial No. 621,989, published Oct. 27, 1953. Class 39.

Texas Harvest Hat Company, Laredo, Tex. Men's, ladies', and children's hats. 585,717, Feb. 16; Serial No. 638,328, published Oct. 27, 4953. Class 39.

Theonett & Co., Inc., Chicago, Ill., to L. Goldberg, doing business as Equity Distilled Spirits, Los Angeles, Calif. Champagnes and wines. 307,366, renewed Oct. 24, 1953. O. G. Feb. 16. Class 47.

Tiedright Tie Company: *See*—
Shaw, Earl R.

Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn. Lawn mowers. 585,667, Feb. 16; Serial No. 630,236, published Oct. 27, 1953. Class 23.

Townsend, Albert L., doing business as Pettfish Company, Haddonfield, N. J. Sun-dried whole fish. 585,615, Feb. 16; Serial No. 607,971, published Nov. 3, 1953. Class 46.

Trio Novelty Mfg. Corp., New York, N. Y. Ironing board pad and cover. 585,677, Feb. 16; Serial No. 631,829, published Nov. 17, 1953. Class 24.

Troutner, Wayne L., Winslow, Ariz. Men's clothing. 585,782, Feb. 16; Serial No. 645,020, published Nov. 3, 1953. Class 39.

Truecraft Tool Company, Chicago, Ill. Pliers, wrenches, and screwdrivers. 585,763, Feb. 16; Serial No. 643,513, published Aug. 25, 1953. Class 23.

Turbine Equipment Company, New York, N. Y. Automatic metal chip handling systems. 585,669, Feb. 16; Serial No. 630,459, published Oct. 20, 1953. Class 23.

Twin Disc Clutch Company, Racine, Wis. Combination unit including a hydraulic power transmission coupling, etc. 547,022, Aug. 21, 1951. Amended. O. G. Feb. 16. Class 23

Underwood Corporation, New York, N. Y. Typewriters and parts thereof. 585,712, Feb. 16; Serial No. 637,158, published Oct. 27, 1953. Class 23.

United States Gutta Percha Paint Company, Saco, Maine, and Providence, R. I., to Barreled Sunlight Paint Company, Providence, R. I. Varnishes. 96,209, re-renewed Apr. 7, 1954. O. G. Feb. 16. Class 16.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Belt pulleys and object-supporting rolls. 585,625, Feb. 16; Serial No. 616,258, published Aug. 25, 1953. Class 23.

United States Steel Corporation: *See*—
United States Steel Company.

Universal-Cyclops Steel Corporation: *See*—
Cyclops Steel Company, Inc.

Urschel, John, doing business under the name of Urschel Metal Products, Phoenix, Ariz. Ventilating fans and parts thereof. 585,871–2, Feb. 16; Serial Nos. 637,518–19. Class 34.

Urschel Metal Products: *See*—
Urschel, John.

Van Horn, Karl R., Memphis, Tenn. Ladies' and men's wrist watches. 585,811, Feb. 16; Serial No. 646,908, published Nov. 10, 1953. Class 27.

Venus Foundation Garments, Inc., Chicago, Ill. Girdles, panty girdles, corselets, etc. 585,761, Feb. 16; Serial No. 643,450, published Nov. 17, 1953. Class 39.

Vic Gene Mfg. Co., Inc., Kansas City, Mo. Women's apparel. 585,835, Feb. 16; Serial No. 648,068, published Nov. 17, 1953. Class 39.

Vietze, Eric, doing business under the trade name and style of Vietze Luminescent Company, Baldwin, N. Y. Paints, pigments for paints, plastic coating compositions. 585,656, Feb. 16; Serial No. 627,476, published Nov. 17, 1953. Class 16.

Vietze Luminescent Company: *See*—
Vietze, Eric.

Virginia-Carolina Chemical Corporation, Richmond, Va. Protein fiber. 585,809, Feb. 16; Serial No. 646,701, published Nov. 10, 1953. Class 1.

Vita-Var Corporation, Newark, N. J. Ready-mixed paints, enamels, and varnishes. 585,699, Feb. 16; Serial No. 635,560, published Nov. 17, 1953. Class 16.

Vogt, F. G., & Sons, Inc., Philadelphia, Pa., to Oscar Mayer & Co., Inc., Austin, Minn. Lard, ham, bacon, and scrapple. 95,723, re-renewed Mar. 3, 1954. O. G. Feb. 16. Class 46.

Wander Company, The, Chicago, Ill. Cough syrup. 585,698, Feb. 16; Serial No. 635,382, published Nov. 3, 1953. Class 18.

Wendt, J. E., Richmond, Ill. Colored wall covering in the nature of a plaster. 585,707, Feb. 16; Serial No. 636,621, published Nov. 17, 1953. Class 12.

Wertheimer, E., et Cie, Paris, France, to Barbara Gould, Inc., New York, N. Y. Perfumery, etc. 100,403, Oct. 20, 1914. New certificate. O. G. Feb. 16. Class 51 (formerly Class 6).

Westbrooke Clothes: *See*—
Schlein, Samuel E., Inc.

Western Fishing Line Co.: *See*—
Western Lace and Line Company.

Western Lace and Line Company, also doing business as Western Fishing Line Co., Glendale, Calif. Fishing line. 585 743, Feb. 16; Serial No. 641,363, published Nov. 17, 1953. Class 22.

Western Mines, Inc., Pueblo, Colo. Soil conditioners and soil fertilizers. 585 716, Feb. 16; Serial No. 638,230, published Nov. 24, 1953. Class 10.

West Virginia Pulp and Paper Company, New York, N. Y. Coated book and magazine paper. 585,852, Feb. 16; Serial No. 614,114. Class 37.

Weyerhaeuser Timber Company, Tacoma, Wash. Kraft container board. 585,877, Feb. 16; Serial No. 640,089. Class 37.

White Pine Sash Company, Spokane, Wash. Primed and treated lumber, finished lumber and millwork. 311,268, renewed Mar. 20, 1954. O. G. Feb. 16. Class 12.

Whiting-Adams Company, by Whiting-Adams Company, Inc., Boston, Mass. Brushes. 264,918, Dec. 10, 1929. Republished Feb. 16. Class 29.

Whiting-Adams Company, Inc.: *See*—
Whiting-Adams Company.

Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy confections. 95,968, re-renewed Mar. 24, 1954. O. G. Feb. 16. Class 46.

Winter, Charlotte D., Paramus, N. J. Jewelry. 585,673, Feb. 16; Serial No. 631,188, published Nov. 10, 1953. Class 28.

Winter, Charlotte D., Paramus, N. J. Crockery, earthenware of porcelain articles. 585,674, Feb. 16; Serial No. 631,189, published Nov. 10, 1953. Class 30.

Winter, Charlotte D., Paramus, N. J. Glassware. 585,675, Feb. 16; Serial No. 631,190, published Nov. 10, 1953. Class 33.

Wood Briquettes Inc., Lewiston, Idaho. Fuel briquettes, etc. 309,316, renewed Jan. 9, 1954. O. G. Feb. 16. Class 1.

Woodall Industries, Incorporated, Detroit, Mich. Resin fibrous composition sheet material. 585,722, Feb. 16; Serial No. 639,094, published Oct. 27, 1953. Class 12.

Woodall Industries, Incorporated, Detroit, Mich. Fibrous composition sheet material. 585,723, Feb. 16; Serial No. 639,095, published Oct. 27, 1953. Class 12.

Wyner, I. A., & Co., Inc., New York, N. Y. Knitted piece goods. 585,645, Feb. 16; Serial No. 624,517, published Oct. 14, 1952. Class 42.

Zing Manufacturing Company, San Jose, Calif. Sling shots and arrow shooters. 585,684, Feb. 16; Serial No. 633,188, published Nov. 17, 1953. Class 22.

Zummach, Wm. F., Inc., Milwaukee, Wis. Paint. 585,819, Feb. 16; Serial No. 647,059, published Nov. 17, 1953. Class 16.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Charcoal. New Jersey Charcoal Co. 585,772, Feb. 16; Serial No. 644,186, published Nov. 3, 1953.

Coal. Foreston Coal Co., Inc. 585,652, Feb. 16; Serial No. 627,059, published Nov. 3, 1953.

Coal, Bituminous. Phoenix Fuel Company. 585,777, Feb. 16; Serial No. 644,781, published Nov. 10, 1953.

Cotton fibers. Hercules Powder Company. 585 818, Feb. 16; Serial No. 647,006, published Nov. 10, 1953.

Fuel briquettes, etc. Wood Briquettes Inc. 309,316, renewed Jan. 9, 1954. O. G. Feb. 16.

Hides, skins, and suedes, Water repellent. Eastmor Leather Trading Corp. 585,778, Feb. 16; Serial No. 644,833, published Nov. 10, 1953.

Leather, Calfskin. Creese and Cook Company. 585,774, Feb. 16; Serial No. 644,289, published Nov. 3, 1953.

Liquid parting agent. The Buckeye Products Company. 585,720, Feb. 16; Serial No. 638,688, published Nov. 10, 1953.

Protein fiber. Virginia-Carolina Chemical Corporation. 585,809, Feb. 16; Serial No. 646,701, published Nov. 10, 1953.

Tall oil. Crossett Chemical Company. 585,815, Feb. 16; Serial No. 646,924, published Nov. 10, 1953.

Tall oil, Crude, tall oil pitch and tall oil rosin. Arizona Chemical Company. 585,814, Feb. 16; Serial No. 646,919, published Nov. 10, 1953.

Tapioca flour for further manufacture in the industrial arts. Stein, Hall & Company, Inc. 585,760, Feb. 16; Serial No. 643,439, published Nov. 3, 1953.

Vermiculite and perlite. American Vermiculite Company, Inc. 585,753, Feb. 16; Serial No. 642,727, published Nov. 3, 1953.

CLASS 2

Cartons. Sutherland Paper Company. 585,740, Feb. 16; Serial No. 640,817, published Nov. 17, 1953.

CLASS 3

Luggage, Men's hand, and women's hand luggage. Platt Luggage, Inc. 585,830, Feb. 16; Serial No. 647,367, published Nov. 10, 1953.

Trunks. R. Morszeck. 585,687, Feb. 16; Serial No. 634,020, published Nov. 10, 1953.

CLASS 4

Abrasive black board scrub block. Alatol, Incorporated. 585,659, Feb. 16; Serial No. 627,917, published Nov. 10, 1953.

Abrasive wheels, Diamond. A. I. T. Diamond Tool Company. 585,762, Feb. 16; Serial No. 643,453, published Nov. 10, 1953.

Ground corn cob meal for use as a cleaning and polishing preparation. Agri-Indus Mfg. Co. 585,633, Feb. 16; Serial No. 620,131, published Nov. 24, 1953.

Polish. Liquid Veneer Corporation. 307,543, renewed Oct. 31, 1953. O. G. Feb. 16.

CLASS 6

Air freshener, Lloquid. Henri Bendel, Inc. 585,817, Feb. 16; Serial No. 646,980, published Nov 24, 1953.

Anti-freeze. The R. J. Brown Company. 585,739, Feb. 16; Serial No. 640,783, published Nov. 24, 1953.

Anti-freeze solutions. Monsanto Chemical Company. 585,680, Feb. 16; Serial No. 632,533, published Feb. 24, 1953.

Beater additive or size used in the manufacture of coated paper. Moore & Munger. 585,828–9, Feb. 16; Serial Nos. 647,307–8, published Nov. 24, 1953.

Carbon black. General Atlas Carbon Company. 308,853, renewed Dec. 26, 1953. O. G. Feb. 16.

Chemical intermediate. Reichhold Chemicals, Inc. 585,735, Feb. 16; Serial No. 640,305, published July 21, 1953.

Chemical intermediates, Organic. Allied Chemical & Dye Corporation. 585,799, Feb. 16; Serial No. 646,101, published Nov. 24, 1953.

Deodorant, Air. The Fuller Brush Company. 585,827, Feb. 16; Serial No. 647,289, published Nov. 24, 1953.

Disinfectant, General purpose liquid. The Fuller Brush Company. 585,826, Feb. 16; Serial No. 647,286, published Nov. 24, 1953.

Emulsifier consisting of dried soap used as additive in drilling muds. Crossett Chemical Company. 585,732, Feb. 16; Serial No. 640,106, published Nov. 24, 1953.

Hydrosulphides. Royce Chemical Company. 292,823, Mar. 29, 1932. Corrected. O. G. Feb. 16.

Impregnating oil used in treating dusting cloths, etc. Callaway Mills Company. 585,691, Feb. 16; Serial No. 634,573, published Oct. 27, 1953.

Ingredients for dyestuffs and dyestuffs both dry and in solution. Ansbacher-Siegle Corporation. 585,822–3, Feb. 16; Serial Nos. 647,138–9, published Nov. 24, 1953.

Liquid glass tint. Glass Tint Corporation. 585,798, Feb. 16; Serial No. 646,067, published Nov. 24, 1953.

Polyalkyl hydroxybenzene. Koppers Company, Inc. 585,640, Feb. 16; Serial No. 623,146, published Sept. 23, 1952.

Polymerization inhibitor. The General Tire & Rubber Company. 585,738, Feb. 16; Serial No. 640,623, published Nov. 17, 1953.

CLASS 7

Cord. Hoffman Lion Mills Company, Incorporated. 585,790, Feb. 16; Serial No. 645,708, published Oct. 27, 1953.
Cord, Crushed or twisted. The Cellucord Corporation. 585,783, Feb. 16; Serial No. 645,106, published Oct. 27, 1953.
Rope and twine, Sisal. The R. A. Kelly Co. 585,801, Feb. 16; Serial No. 646,222, published Oct. 27, 1953.

CLASS 8

Pipes, Smokers'. The Reiss-Premier Corporation. 585,882, Feb. 16; Serial No. 648,801.

CLASS 9

Revolvers. Smith and Wesson, Inc. 585,831 Feb. 16; Serial No. 647,376, published Nov. 17, 1953.

CLASS 10

Preparation for seeding, fertilizing, and conditioning soil. Druid Hill Park Seed Corporation. 585,862, Feb. 16; Serial No. 631,276.
Preparation for seeding, fertilizing, and conditioning soil. Druid Hill Park Seed Corporation. 585,868, Feb. 16; Serial No. 636,210.
Soil conditioners and soil fertilizers. Western Mines, Inc. 585,716, Feb. 16; Serial No. 638,230, published Nov. 24, 1953.

CLASS 11

Carbon paper. Typewriter. Quest Manufacturing Company. 585,792, Feb. 16; Serial No. 645,729, published Nov. 17, 1953.
Inked ribbons. Manifold Supplies Company. 585,643, Feb. 16; Serial No. 623,422, published Nov. 17, 1953.
Inks, Printing. Rarolite Chemical Co., Inc. 585,622, Feb. 16; Serial No. 613,574, published Nov. 17, 1953.

CLASS 12

Accessories for air conditioning, heating, and ventilating systems. The Philip Carey Manufacturing Company. 585,597, Feb. 16; Serial No. 556,410, published Oct. 27, 1953.
Asbestos-cement boards, asbestos-cement sheets, asbestos-cement lumber, etc. Keasbey & Mattison Company. 365,563, Mar. 14, 1939. Republished Feb. 16.
Asbestos product. Keasbey & Mattison Company. 327,229, Aug. 20, 1935. Republished Feb. 16.
Awnings, Metal. Kool Vent Metal Awning Corporation of America. 585,775, Feb. 16; Serial No. 644,673, published Oct. 27, 1953.
Building blocks, Concrete, and bricks. Lakeside Gravel Company. 585,729, Feb. 16; Serial No. 639,940, published Nov. 17, 1953.
Building boards, Fire-resistant, insulating and sound-deadening boards, etc. Keasbey & Mattison Company. 397,198, Aug. 25, 1942. Republished Feb. 16.
Caulking compound. Battenfeld Grease & Oil Corp. 585,804–5, Feb. 16; Serial Nos. 646,355–6, published Nov. 17, 1953.
Cement and mortar. Pittsburgh Coke & Chemical Company. 585,781, Feb. 16; Serial No. 645,006, published Oct. 27, 1953.
Cement, Portland. S. A. des Ciments Portland Liegeois. 585,686, Feb. 16; Serial No. 633,632, published Oct. 27, 1953.
Colored wall covering in the nature of a plastic. J. E. Wendt. 585,707, Feb. 16; Serial No. 636,621, published Nov. 17, 1953.
Compound composed of natural or synthetic resins with cementitious material, Quick setting. Revertex Limited. 585,671, Feb. 16; Serial No. 630,855, published Oct. 27, 1953.
Fibrous composition sheet material. Woodall Industries, Incorporated. 585,723, Feb. 16; Serial No. 639,095, published Oct. 27, 1953.
Lumber, Primed and treated, finished lumber and millwork. White Pine Sash Company. 311,268, renewed Mar. 20, 1954. O. G. Feb. 16.
Metal corner and edge guards for exterior wall board corners. Drywall Trim, Inc. 585,719, Feb. 16; Serial No. 638,640, published Oct. 27, 1953.
Plaster, concrete, cement, etc. Tennessee Products & Chemical Corporation. 585,689, Feb. 16; Serial No. 634,424, published Oct. 27, 1953.
Resin fibrous composition sheet material. Woodall Industries, Incorporated. 585,722, Feb. 16; Serial No. 639,094, published Oct. 27, 1953.
Shingles, Asbestos cement. Ambler Asbestos Shingle & Sheathing Company. 310,755, Mar. 6, 1934. Republished Feb. 16.
Window screen units, Complete frameless. Rudiger-Lang Co. 585,824, Feb. 16; Serial No. 647,234, published Nov. 17, 1953.

CLASS 13

Dust pans. Rolf L. Anderson Mechanical Laboratories. 585,860, Feb. 16; Serial No. 625,953.
Nozzles, Valved. Jenkins Bros. 308,181, renewed Nov. 21, 1953. O. G. Feb. 16.
Tube couplings. The Special Screw Products Company. 585,866, Feb. 16; Serial No. 632,957.

CLASS 14

Iron, Galvanized sheet. Phenix Works, S. A. 307,952, renewed Nov. 14, 1953. O. G. Feb. 16.
Iron, Galvanized sheet, leaded sheet iron and galvanized hoop iron. Phenix Works, S. A. 307,951, renewed Nov. 14, 1953. O. G. Feb. 16.
Steel alloy, Corrosion-resistant. Ingersoll-Rand Company. 585,816, Feb. 16; Serial No. 646,965, published Nov. 17, 1953.
Steel sheets, Galvanized. Bethlehem Steel Company. 585,737, Feb. 16; Serial No. 640,544, published Nov. 17, 1953.
Steels. Cyclops Steel Company, Inc. 246,002, Aug. 28, 1928. Republished Feb. 16.
Welding electrodes. P. R. Mallory & Co., Inc. 585,730, Feb. 16; Serial No. 640,003, published Nov. 17, 1953.
Welding electrodes, tips and shanks. P. R. Mallory & Co., Inc. 585,632, Feb. 16; Serial No. 618,460, published Nov. 17, 1953.

CLASS 15

Candles, Wax. P. A. Chadwell. 585,808, Feb. 16; Serial No. 646,654, published Oct. 27, 1953.
Lubricants. Brewer & Elliot, Inc. 585,650, Feb. 16; Serial No. 626,492, published Oct. 27, 1953.

CLASS 16

Coating composition, Abrasive resistant. The Atlas Mineral Products Company of Pennsylvania. 585,605, Feb. 16; Serial No. 584,570, published Aug. 18, 1953.
Coatings, Celluloid type finish. E. F. Ramseier. 585,688, Feb. 16; Serial No. 634,115, published Nov. 24, 1953.
Paint. Wm. F. Zummach, Inc. 585,819, Feb. 16; Serial No. 647,059, published Nov. 17, 1953.
Paint enamels. De Soto Paint & Varnish Co. 585,613, Feb. 16; Serial No. 605,641, published Nov. 24, 1953.
Paints, pigments for paints, plastic coating compositions. E. Vietze. 585,656, Feb. 16; Serial No. 627,476, published Nov. 17, 1953.
Paints, Ready-mixed, enamels, and varnishes. Vita-Var Corporation. 585,699, Feb. 16; Serial No. 635,560, published Nov. 17, 1953.
Varnishes. United States Gutta Percha Paint Company. 96,209, re-renewed Apr. 7, 1954. O. G. Feb. 16.

CLASS 17

Tobacco and tobacco products. Larus & Brother Company. 585,853, Feb. 16; Serial No. 616,560.

CLASS 18

Analgesic preparation. Smith, Kline & French Laboratories. 585,821, Feb. 16; Serial No. 647,105, published Nov. 3, 1953.
Antibiotic. American Cyanamid Company. 585,813, Feb. 16; Serial No. 646,916, published Nov. 3, 1953.
Cough syrup. The Wander Company. 585,698, Feb. 16; Serial No. 635,382, published Nov. 3, 1953.
Losenges. The National Drug Company. 500,644, June 15, 1948. Amended. O. G. Feb. 16. (Formerly Class 6.)
Medications, chemical products for healing purposes and health care, etc. Byk-Gulden Lomberg Chemische Fabrik G. m. b. H. 585,742, Feb. 16; Serial No. 641,259, published Nov. 3, 1953.
Multivitamin preparation. Chase Chemical Company. 585,825, Feb. 16; Serial No. 647,265, published Nov. 3, 1953.
Preparation for the treatment of athlete's foot. Chemical Industries, Incorporated. 585,820, Feb. 16; Serial No. 647,063, published Nov. 3, 1953.
Therapeutic composition. Allied Laboratories, Inc. 585,812, Feb. 16; Serial No. 646,915, published Nov. 3, 1953.

CLASS 19

Bicycles, tricycles, and parts thereof. Rudge-Whitworth Limited. 585,610, Feb. 16; Serial No. 599,021, published Nov. 17, 1953.
Boats, Plastic. Plastic Industries, Inc. 585,726, Feb. 16; Serial No. 639,390, published Nov. 17, 1953.
Service carts, basket trucks, wheeled chair trucks, etc. Lyon Metal Products, Incorporated. 585,612, Feb. 16; Serial No. 605,431, published Nov. 17, 1953.
Vehicles. Packard Motor Car Company. 585,706, Feb. 16; Serial No. 636,601, published Nov. 17, 1953.

CLASS 21

Coils, contacts, springs, condensers, etc. Shurhit Products, Inc. 444,794, Feb. 16; Serial No. 508,860, published Apr. 21, 1953.
Cold molded material for electrical insulation. Asbestos Shingle, Slate & Sheathing Company. 235,625, Nov. 22, 1927. Republished Feb 16.
Electrical starting mechanism for internal combustion engines and parts thereof, etc., Unitary. Eclipse Machine Company. 304,785, renewed July 18, 1953. O. G. Feb. 16.

CLASS 22

Dolls. Goldberger Doll Manufacturing Co. Inc. 585,832, Feb. 16; Serial No. 647,773, published Nov. 17, 1953.

Dolls. Ideal Toy Corporation. 585,696–7, Feb. 16; Serial Nos. 635,035–6, published Nov. 17, 1953.
Exercising devices, Mechanical. S. L. Jordan. 585,793, Feb. 16; Serial No. 645,808, published Nov. 17, 1953.
Fishing line. Western Lace and Line Company. 585,743, Feb. 16; Serial No. 641,363, published Nov. 17, 1953.
Game, Board. Parker Brothers, Inc. 585,749, Feb. 16; Serial No. 642,417, published Nov. 17, 1953.
Game device. S. B. Newhall. 585,748, Feb. 16; Serial No. 642,158, published Nov. 17, 1953.
Game, Educational question and answer. Gee Kaye Educational Toys, Inc. 585,725, Feb. 16; Serial No. 639,271, published Nov. 17, 1953.
Games. A. R. Huff. 585,787, Feb. 16; Serial No. 645,312, published Nov. 17, 1953.
Games. J. Russ. 585,676, Feb. 16; Serial No. 631,255, published Nov. 17, 1953.
Puppets. J. C. Stickley. 585,711, Feb. 16; Serial No. 637,152, published Nov. 17, 1953.
Sling shots and arrow shooters. Zing Manufacturing Company. 585,684, Feb. 16; Serial No. 633,188, published Nov. 17, 1953.
Toy dogs, Stuffed. J. Swedlin, Inc. 585,842, Feb. 16; Serial No. 650,749, published Nov. 17, 1953.
Toy model raft construction kits. Rand McNally & Company. 585,836, Feb. 16; Serial No. 648,133, published Nov. 17, 1953.
Toys and novelties. F. Stark. 585,690, Feb. 16; Serial No. 634,496, published Nov. 17, 1953.
Toys, Rubber, composition, plastic, and cardboard. Auburn Rubber Company, Inc. 585,843, Feb. 16; Serial No. 651,036, published Nov. 17, 1953.

CLASS 23

Anti-vibration and shock absorbing mountings and supports for machines, etc. Metalastik Limited. 585,616, Feb. 16; Serial No. 608,321, published Sept. 29, 1953.
Base metal table cutlery. National Silver Company. 585,791, Feb. 16; Serial No. 645,725, published Oct. 27, 1953.
Belt pulleys and object-supporting rolls. United States Steel Company. 585,625, Feb. 16; Serial No. 616,258, published Aug. 25, 1953.
Benders, Hand manipulated. R. H. Henderson. 585,856, Feb. 16; Serial No. 622,775.
Carburetor repair parts, Assorted. Precision Automotive Components Co. 585,867, Feb. 16; Serial No. 634,914.
Ceramic coated exhaust structures for internal combustion engines, etc. Solar Aircraft Company. 585,752, Feb. 16; Serial No. 642,702, published Sept. 1, 1953.
Combination unit including a hydraulic power transmission coupling, etc. Twin Disc Clutch Company. 547,022, Aug. 21, 1951. Amended. O. G. Feb. 16.
Drilling and boring machines. Barnes Drill Co. 585,681, Feb. 16; Serial No. 632,586, published Sept. 29, 1953.
Food choppers, Hand-operated. Carrollton Manufacturing Company. 585,734, Feb. 16; Serial No. 640,259, published Sept. 29, 1953.
Industrial and marine clutches, marine power transmissions, industrial brakes, etc. The Fawick Airflex Company, Inc. 585,635–6, Feb. 16; Serial Nos. 621,663–4, published Oct. 27, 1953.
Knives, Pocket and household. Brown & Bigelow. 585,606, Feb. 16; Serial No. 585,311, published Aug. 8, 1950.
Lawn mowers. Toro Manufacturing Corporation of Minnesota. 585,667, Feb. 16; Serial No. 630,236, published Oct. 27, 1953.
Laying and spreading machines, pin bar tools, etc. Cloth Laying Appliances Corp. 585,594, Feb. 16; Serial No. 504,032, published Sept. 29, 1953.
Laying and spreading machines, pin bar tools, etc. Cloth Laying Appliances Corp. 585,595, Feb. 16; Serial No. 504,033, published Oct. 27, 1953.
Laying and spreading machines, pin bar tools, and tools consisting of metal slabs, etc. Cloth Laying Appliances Corp. 585,596, Feb. 16; Serial No. 504,034, published Nov. 10, 1953.
Lift jacks, upender devices, industrial lifting and stacking trucks and parts thereof, etc. The Colson Corporation. 585,602, Feb. 16; Serial No. 580,229, published Sept. 1, 1953.
Machine for cleaning, rust-proofing, priming and painting sheet metal articles. Carrier Engineering Company Limited. 585,620, Feb. 16; Serial No. 612,307, published Oct. 20, 1953.
Metal ch'p handling systems, Automatic. Turbine Equipment Company. 585,669, Feb. 16; Serial No. 630,459, published Oct. 20, 1953.
Metal hand stamp. M. Bayerdorffer. 585,655, Feb. 16; Serial No. 627,367, published Oct. 20, 1953.
Mufflers for use with internal combustion engines and extensions for tail pipes. Goerlich's. 585,771, Feb. 16; Serial No. 644,172, published Oct. 20, 1953.
Overprinting, hand-driven machines. Dapag (1943) Limited. 585,728, Feb. 16; Serial No. 639,746, published Oct. 20, 1953.
Plate bending rolls, slip roll forming machines, tank turning rolls, etc. L. H. Knost. 585,810, Feb. 16; Serial No. 646,775, published Oct. 27, 1953.
Pliers, wrenches, and screwdrivers. Truecraft Tool Company. 585,763, Feb. 16; Serial No. 643,513, published Aug. 25, 1953.
Power plants, Internal combustion. Nordberg Manufacturing Company. 585,611, Feb. 16; Serial No. 604,102, published Oct. 6, 1953.
Presses, Metal cutting. Super Speed Press Corporation. 585,621, Feb. 16; Serial No. 613,201, published Sept. 1, 1953.
Printing equipment. Fairchild Camera and Instrument Corporation. 585,642, Feb. 16; Serial No. 623,407, published Aug. 25, 1953.
Processing apparatus for dairy products and the like. Cherry-Burrell Corporation. 585,657, Feb. 16; Serial No. 627,494, published Aug. 18, 1953.
Pumps, Portable self-priming centrifugal, power hoists and winches, portable wood-sawing rigs, etc. Sterling Machinery Corporation. 585,628, Feb. 16; Serial No. 618,133, published Sept. 1, 1953.
Pumps, Rotary oil, valves and other parts thereof, etc. Geraetebau-Anstalt. 585,647, Feb. 16; Serial No. 624,739, published Apr. 14, 1953.
Razor blades, Safety. Standard Blade Co. Inc. 585,837, Feb. 16; Serial No. 648,141, published Aug. 25, 1953.
Sewing machines and parts therefor. H. Schädler. 585,741, Feb. 16; Serial No. 641,252, published Aug. 18, 1953.
Sewing machines, Electric. D. Schneider. 585,784, Feb. 16; Serial No. 645,192, published Sept. 29, 1953.
Sewing machines, sewing machine parts, sewing machine supplies, etc. L. Jolson. 585,639, Feb. 16; Serial No. 622,022, published Aug. 4, 1953.
Sleet scrapers, bottle openers, combination spoon and bottle openers, etc. Brown & Bigelow. 585,614, Feb. 16; Serial No. 606,968, published Aug. 12, 1952.
Snips, Tinners', heavy duty nippers and carpenters' nippers. Diamond Calk Horseshoe Co. 585,695, Feb. 16; Serial No. 634,965, published Oct. 20, 1953.
Sprayers, Agricultural and horticultural, carburetors, copper plate printing presses, etc. Imperial Chemical Industries, Limited. 585,608, Feb. 16; Serial No. 594,789, published Oct. 27, 1953.
Stapling machines, binding machines, and tacking machines. Acme Staple Company. 585,704, Feb. 16; Serial No. 636,452, published Oct. 27, 1953.
Steel stamps, embossing and marking dies, power and hand marking machines. Cadillac Stamp Company, Inc. 585,603, Feb. 16; Serial No. 582,404, published Aug. 4, 1953.
Transmission apparatus and explosion-motors. Minerva Motors. 89,131, Nov. 12, 1912. Republished Feb. 16.
Typewriters and parts thereof. Underwood Corporation. 585,712, Feb. 16; Serial No. 637,158, published Oct. 27, 1953.

CLASS 24

Ironing board pad and cover. Trio Novelty Mfg. Corp. 585,677, Feb. 16; Serial No. 631,829, published Nov. 17, 1953.
Dry cleaning machines and dry cleaning tumblers. Ayr-Mor Machinery Company, Inc. 585,709, Feb. 16; Serial No. 636,874, published Nov. 17, 1953.
Ironing board covers and pads and combinations of ironing board covers and pads. Gustin-Kramer Company. 585,663, Feb. 16; Serial No. 629,488, published Nov. 17, 1953.
Ironing-board pad and cover sets, and ironing tables. Proctor Electric Company. 585,865, Feb. 16; Serial No. 632,742.

CLASS 26

Calculating and adding machines and cash registers. Brunsviga Maschinenwerke Aktiengesellschaft. 585,755, Feb. 16; Serial No. 643,284, published Sept. 8, 1953.
Cameras. Modi-Graphic Inc. 585,733, Feb. 16; Serial No. 640,220, published Sept. 1, 1953.
Cameras and parts thereof. Herbert George Co. 585,653, Feb. 16; Serial No. 627,125, published Aug. 18, 1953.
Glass beaded fabrics used in cut sizes as motion picture projection screens. Radiant Manufacturing Corporation. 585,678, Feb. 16; Serial No. 632,100, published Aug. 18, 1953.
Goggles, Industrial and sporting, spectacles, welders' helmets, etc. Sellstrom Manufacturing Company. 585,629, Feb. 16; Serial No. 618,254, published Aug. 18, 1953.
Goggles, Industrial and sporting, spectacles, welders' helmets, etc. Sellstrom Manufacturing Company. 585,630, Feb. 16; Serial No. 618,255, published Aug. 25, 1953.
Instruments for measuring the phase angle between alternating currents or voltages. Technology Instrument Corporation. 585,601, Feb. 16; Serial No. 577,620, published Sept. 1, 1953.
Measuring and controlling instruments and apparatus. The Brown Instrument Company. 363,274, Dec. 20, 1938. Republished Feb. 16.
Optical instrument. Peridome, Ltd. 585,747, Feb. 16; Serial No. 641,963, published Aug. 18, 1953.
Photoelectric colorimeter and density comparison and measuring instrument. Hellige, Inc. 585,623, Feb. 16; Serial No. 613,989, published Sept. 8, 1953.
Radio-active radiation apparatus. Nuclear Instrument and Chemical Corporation. 585,604, Feb. 16; Serial No. 583,110, published Sept. 1, 1953.
Ruling pens, Drafting. Keuffel & Esser Company. 585,626, Feb. 16; Serial No. 616,323, published Aug. 18, 1953.
Television and motion picture camera dolly and hydraulic lift, Combined. National Cine Equipment, Inc. 585,627, Feb. 16; Serial No. 617,671, published Aug. 18, 1953.

CLASS 27

Watches. Lieber & Lerner. 585,765, Feb. 16; Serial No. 643,966, published Nov. 10, 1953.
Watches, alarm clocks and parts thereof, and watch and alarm clock cases. Fabrique d'Horlogerie Sindaco S. A. 585,702, Feb. 16; Serial No. 636,068, published Nov. 10, 1953.
Watches, Ladies' and men's wrist. K. R. Van Horn. 585,811, Feb. 16; Serial No. 646,908, published Nov. 10, 1953.
Watches, watch cases, and watch movements. T. H. Schwob. 585,750, Feb. 16; Serial No. 642,443, published Nov. 10, 1953.

CLASS 28

Fraternity badges, lapel buttons; scarf, lapel and breast pins, etc. Delta Gamma Fraternity. 585,700, Feb. 16; Serial No. 635,905, published Nov. 10, 1953.
Gold plated insignia with combined locket. Ira Green, Inc. 585,683, Feb. 16; Serial No. 633,055, published Nov. 10, 1953.
Jewelry. C. D. Winter. 585,673, Feb. 16; Serial No. 631,188, published Nov. 10, 1953.
Sterling silver flatware. Amston Silver Company, Inc. 585,600, Feb. 16; Serial No. 573,700, published Nov. 10, 1953.

CLASS 29

Brushes. Whiting-Adams Company. 264,918, Dec. 10, 1929. Republished Feb. 16.
Brushes, Paint. Minnesota Paints, Inc. 585,844. Feb. 16; Serial No. 651,930, published Nov. 17, 1953.
Brushes, Paint and similar type protective and decorative coating and surfacing. Samuel M. Dell & Co., Inc. 585,649, Feb. 16; Serial No. 626,369, published Nov. 17, 1953.

CLASS 30

Crockery, earthenware of porcelain articles. C. D. Winter. 585,674, Feb. 16; Serial No. 631,189, published Nov. 10, 1953.

CLASS 31

Anthracite porous media used as a filtering agent. The Philadelphia and Reading Coal and Iron Company. 585,861, Feb. 16; Serial No. 628,955.
Refrigerators, Household and store. The Hecht Co. 310,844, renewed Mar. 13, 1954. O. G. Feb. 16.

CLASS 32

Cribs, Portable collapsible enclosed and partly enclosed babies'. Bunny Bear, Inc. 585,847, Feb. 16; Serial No. 601,423.
Pillows and cushions. New York Feather Co., Inc. 585,881, Feb. 16; Serial No. 648,259.
Venetian blinds, window shades, window cornice boxes, etc. American Traverse Co. 585,880, Feb. 16; Serial No. 646,721.

CLASS 33

Glassware. C. D. Winter. 585,675, Feb. 16; Serial No. 631,190, published Nov. 10, 1953.

CLASS 34

Air conditioning units, Room. C. E. Forston. 585,878, Feb. 16; Serial No. 640,334.
Cooking units, Portable. The Lennox Furnace Company. 585,849, Feb. 16; Serial No. 602,035.
Fan, Kitchen ventilating. Pryne & Co. 585,848, Feb. 16; Serial No. 601,847.
Fans and parts thereof, Ventilating. J. Urschel. 585,871–2, Feb. 16; Serial Nos. 637,518–19.
Fuel burning attachment, Liquid. Northwest Mfg. Co. 585,855, Feb. 16; Serial No. 620,168.
Heliostats and reflectors therefor, Automatic. Arthel (Société d'Exploitation des Brevets Jacques Arthuys). 307,602, renewed Oct. 31, 1953. O. G. Feb. 16.

CLASS 35

Belting, Flat leather, rounded leather belting, leather cord, etc. J. E. Rhoades & Sons. 95,667, re-renewed Mar. 3, 1954. O. G. Feb. 16.
Belting, Leather. Holyoke Belting Company. 585,807, Feb. 16; Serial No. 646,472, published Nov. 17, 1953.
Hose, Garden. Green Thumb Products. 585,701, Feb. 16; Serial No. 635,966, published Nov. 17, 1953.
Tires, Pneumatic rubber. Richmond Rubber Company, Inc. 585,754, Feb. 16; Serial No. 643,048, published Nov. 17, 1953.

CLASS 36

Batons, Twirling. H. & A. Selmer, Inc. 585,664–5, Feb. 16; Serial Nos. 629,527–8, published Nov. 17, 1953.
Batons, Twirling. H. & A. Selmer, Inc. 585,666, Feb. 16; Serial No. 630,037, published Nov. 17, 1953.
Celesta and celestette, piano keyboard instruments, chimes, etc. G. C. Jenkins Co. 585,715, Feb. 16; Serial No. 637,925, published Nov. 17, 1953.
Phonograph records, Grooved. Columbia Records Inc. 585,841, Feb. 16; Serial No. 648,588, published Nov. 17, 1953.
Phonograph records, Grooved. Musica Argentina e Internacional Sociedad de Responsabilidad Limitada. 585,682, Feb. 16; Serial No. 632,949, published Nov. 17, 1953.

CLASS 37

Kraft container beard. Weyerhaeuser Timber Company. 585,877, Feb. 16; Serial No. 640,089.
Paper, Coated book and magazine. West Virginia Pulp and Paper Company. 585,852, Feb. 16; Serial No. 614,114.
Paper handkerchiefs. Marcalus Manufacturing Co. Inc. 585,858, Feb. 16; Serial No. 624,200.
Paper towels. Brown Company. 585,846, Feb. 16; Serial No. 587,315.
Paper, Wall. Isgo Wall Paper Corporation. 585,857, Feb. 16; Serial No. 623,766.

CLASS 38

Publication. Keasbey & Mattison Company. 444,055, June 27, 1950. Republished Feb. 16.
Publication, Periodical. Georgia Hardwood Lumber Company. 441,350, Nov. 16, 1948. Republished Feb. 16.
Publications, Monthly. H. Gernsback. 305,558, Aug. 22, 1933. Republished Feb. 16.

CLASS 39

Apparel, Women's. Vic Gene Mfg. Co., Inc. 585,835, Feb. 16; Serial No. 648,068, published Nov. 17, 1953.
Bathing suits, Ladies' and children's. Mercury Sportswear, Inc. 585,873, Feb. 16; Serial No. 637,782.
Brassières. The La Resista Corset Company. 585,875, Feb. 16; Serial No. 638,722.
Brassières, foundations, and girdles. Snug-Fit Foundations Company. 585,694, Feb. 16; Serial No. 634,924, published Nov. 17, 1953.
Cap, After-shampoo terry cloth. Clinico, Inc. 585,721, Feb. 16; Serial No. 639,018, published Oct. 27, 1953.
Clothing, Athletic. Callaway Products, Inc. 585,773, Feb. 16; Serial No. 644,218, published Sept. 29, 1953.
Clothing, Foul weather. Neptune Specialties, Inc. 585,618, Feb. 16; Serial No. 608,666, published Sept. 9, 1952.
Clothing, Men's. Eagle Clothes, Inc. 585,794, Feb. 16; Serial No. 645,877, published Oct. 27, 1953.
Clothing, Men's. Eagle Clothes, Inc. 585,795, Feb. 16; Serial No. 645,883, published Oct. 27, 1953.
Clothing, Men's. W. L. Troutner. 585,782, Feb. 16; Serial No. 645,020, published Nov. 3, 1953.
Clothing, Men's and boys' articles of, and women's and misses' articles of clothing. Hart Schaffner & Marx. 585,779, Feb. 16; Serial No. 644,842, published Sept. 29, 1953.
Coats and suits, Men's and women's; men's trousers, etc. A. Sagner's Son. 585,624, Feb. 16; Serial No. 614,411, published Oct. 27, 1953.
Coats, Men's and boys' blanket lined, cossack coats and western shirts, etc. Blue Bell, Inc. 585,797, Feb. 16; Serial No. 646,048, published Oct. 27, 1953.
Coats, suits, hosiery, etc., Ladies', misses', and juniors'. Adelaide Dresses, Inc. 585,646, Feb. 16; Serial No. 624,580, published Nov. 17, 1953.
Coats, trousers, suits, sweaters, etc., Men's. William B. Riley Ltd. Inc. 585,661, Feb. 16; Serial No. 628,430, published Oct. 27, 1953.
Diapers and diaper liners. Chicopee Mills, Inc. 585,644, Feb. 16; Serial No. 624,124, published Oct. 27, 1953.
Garments, Sleeping. Charles Eisenman Company. 95,208, re-renewed Feb. 3, 1954. O. G. Feb. 16.
Girdles, panty girdles, corselets, etc. Venus Foundation Garments, Inc. 585,761, Feb. 16; Serial No. 643,450, published Nov. 17, 1953.
Girdles, Women's and misses'. Caltex Sportswear Co. of California, Inc. 585,708, Feb. 16; Serial No. 636,631, published Nov. 17, 1953.
Hat bands. The Frank H. Lee Company. 585,876, Feb. 16; Serial No. 639,760.
Hats, Men's, ladies', and children's. Texas Harvest Hat Company. 585,638, Feb. 16; Serial No. 621,989, published Oct. 27, 1953.
Hats, Men's, ladies' and children's. Texas Harvest Hat Company. 585,717, Feb. 16; Serial No. 638,328, published Oct. 27, 1953.
Hosiery and girdles, Women's. Steinberg Bros. 585,670, Feb. 16; Serial No. 630,520, published Nov. 17, 1953.
Hosiery, Ladies'. M. K. M. Hosiery Mills, Inc. 585,776, Feb. 16; Serial No. 644,674, published Nov. 3, 1953.
Hosiery, Men's. Silver Knit Hosiery Mills, Inc. 585,641, Feb. 16; Serial No. 623,319, published July 29, 1952.
Hosiery, Women's and girls'. Karchmar Company, Inc. 585,619, Feb. 16; Serial No. 610,077, published Nov. 3, 1953.
Jackets, overalls, jumpers, etc., Boys' and young men's. The Birnie Company, Inc. 585,788, Feb. 16; Serial No. 645,378, published Oct. 27, 1953.
Neckties and lounging beach and bath robes, scarves, etc., Men's. Wm. A. Taylor, Ltd. 585,731, Feb. 16; Serial No. 640,019, published Sept. 29, 1953.
Neckties and scarves, Men's. Arthur Siegman, Inc. 585,803, Feb. 16; Serial No. 646,324, published Oct. 27, 1953.
Overalls, work pants, coveralls, etc. Steiner-Lobman Dry Goods Company. 585,764, Feb. 16; Serial No. 643,878, published Nov. 3, 1953.
Scarfs. Doro Designs Inc. 585,756, Feb. 16; Serial No. 643,299, published Nov. 10, 1953.
Shirts and dress shirts, Men's and boys' outer. H. D. Buskind & Co., Inc. 585,851, Feb. 16; Serial No. 606,256.

Shirts and neckties, Men's sport. M. and D. Simon Company Incorporated. 585,863, Feb. 16; Serial No. 631,877.
Shirts and shorts, Boys' inner and outer. American Blouse Co. Inc. 585,617, Feb. 16; Serial No. 608,527, published Oct. 27, 1953.
Shirts, Men's and boys' dress and sport. Marlboro Shirt Company, Inc. 585,693, Feb. 16; Serial No. 634,907, published Sept. 29, 1953.
Shirts, Men's and boy's sport. Shelburne Shirt Co. Inc. 585,879, Feb. 16; Serial No. 640,967.
Shirts, Men's outer. Brooks Brothers, Inc. 585,767, Feb. 16; Serial No. 644,007, published Oct. 27, 1953.
Shirts, pajamas, handkerchiefs, etc., Men's outer dress and sport. The Manhattan Shirt Company. 585,789, Feb. 16; Serial No. 645,656, published Oct. 27, 1953.
Shirts, polo shirts, and T shirts, Men's and boys' sport. Myrna Knitwear, Inc. 585,668, Feb. 16; Serial No. 630,338, published Oct. 27, 1953.
Shoes. Hofheimer's, Inc. 311,684, renewed Apr. 3, 1954. O. G. Feb. 16.
Shorts, etc., Men's, boys', and youths'. The May Department Stores Company. 381,667, Oct. 1, 1940. Amended. O. G. Feb. 16.
Slacks, Men's. Haggar Company. 585,718, Feb. 16; Serial No. 638,417, published Oct. 27, 1953.
Sportswear. Clyde Associates Incorporated. 585,660, Feb. 16; Serial No. 628,092, published Nov. 17, 1953.
Suits, coats, and trousers, Men's. Michaels, Stern & Company, Incorporated. 585,651, Feb. 16; Serial No. 626,689, published Oct. 27, 1953.
Suits, Men's. The Rike-Kumler Company. 585,759, Feb. 16; Serial No. 643,436, published Oct. 27, 1953.
Suits, topcoats, and sport coats, Men's. Bohlen Gross & Moyer. 585,785, Feb. 16; Serial No. 645,226, published Oct. 27, 1953.
Suits, topcoats, sport coats, etc., Men's and young men's. J. Altman. 585,631, Feb. 16; Serial No. 618,333, published Oct. 27, 1953.
Ties, Men's and boys'. E. R. Shaw. 585,806, Feb. 16; Serial No. 646,436, published Oct. 27, 1953.
Topcoats and overcoats, Men's, women's, and children's; men's and women's suits; sport coats, etc. H. J. Blicking. 585,724, Feb. 16; Serial No. 639,206, published Nov. 10, 1953.
Trousers, coats, overalls, etc., Men's and boys'. Blue Ridge Manufacturers, Incorporated. 585,746, Feb. 16; Serial No. 641,904, published Sept. 22, 1953.
Wearing apparel. Clearfield Furs, Inc. 585,598, Feb. 16; Serial No. 569,813, published Oct. 27, 1953.
Wearing apparel, Men's and young men's outer. Samuel E. Schlein, Inc. 585,692, Feb. 16; Serial No. 634,808, published Oct. 27, 1953.
Wearing apparel, Men's and young men's outer. Samuel E. Schlein, Inc. 585,766, Feb. 16; Serial No. 643,979, published Nov. 3, 1953.

CLASS 40

Chart tracing patterns. A. K. Purcupile. 585,637, Feb. 16; Serial No. 621,902, published Nov. 17, 1953.
Combs. Plattner Company, Inc. 585,838, Feb. 16; Serial No. 648,192, published Nov. 17, 1953.
Pins for shank buttons. The Boye Needle Company. 585,859, Feb. 16; Serial No. 625,396.

CLASS 42

Blankets. Nashua Manufacturing Company. 372,008, Oct. 17, 1939. Republished Feb. 16.
Fabric, Heavy woven cotton. B. J. Barry & Company, Inc. 585,833, Feb. 16; Serial No. 647,830, published Nov. 17, 1953.
Fabrics, Knitted. Princeton Knitting Mills, Inc. 585,834, Feb. 16; Serial No. 648,044, published Nov. 17, 1953.
Fabrics, Textile. Gatmart Inc. 585,839, Feb. 16; Serial No. 648,242, published Nov. 17, 1953.
Piece goods, Knitted. I. A. Wyner & Co., Inc. 585,645, Feb. 16; Serial No. 624,517, published Oct. 14, 1952.
Piece goods, Woolen, and hair cloth. William Hollins and Company, Limited. 63,690, July 2, 1907. Amended. O. G. Feb. 16.
Sheets and pillow cases. Naumkeag Steam Cotton Company. 94,923, re-renewed Jan. 13, 1954. O. G. Feb. 16.

CLASS 43

Threads. Societe Rhodiaceta. 585,769, Feb. 16; Serial No. 644,073, published Nov. 17, 1953.

CLASS 44

Artificial respiration collars. The Sponge Rubber Products Company. 585,658, Feb. 16; Serial No. 627,649, published Nov. 3, 1953.
Hospital beds, wheel chairs, crutches, etc. Good Will Assistance Association. 585,780, Feb. 16; Serial No. 644,981, published Nov. 17, 1953.
Oxygen humidifiers. Puritan Compressed Gas Corporation. 585,654, Feb. 16; Serial No. 627,148, published Oct. 27, 1953.
Sanitary napkin belts. E. E. Statter. 585,727, Feb. 16; Serial No. 639,446, published Nov. 17, 1953.

CLASS 46

Candy, chocolates and bonbons. Hawley & Hoops. 61,349, Mar. 19, 1907. Republished Feb. 16.
Candy confections. Stephen F. Whitman & Son, Inc. 95,968, re-renewed Mar. 24, 1954. O. G. Feb. 16.
Canned fish and sea food. Household Products Co. 307,601, renewed Oct. 31, 1953. O. G. Feb. 16.
Canned fruits, and vegetables, canned fish, etc. The Midland Grocery Company. 424,956, Oct. 29, 1946. Republished Feb. 16.
Canned rice with beef in gravy. Menner Packing Corp. 585,870, Feb. 16; Serial No. 636,723.
Chicken, Frozen uncooked, frozen vegetables, and frozen fruits. The Borden Company. 585,634, Feb. 16; Serial No. 621,253, published Nov. 10, 1953.
Dough improver. Standard Brands Incorporated. 311,939, renewed Apr. 19, 1954. O. G. Feb. 16.
Fish, Sun-dried whole. A. L. Townsend. 585,615, Feb. 16; Serial No. 607,971, published Nov. 3, 1953.
Flour, Self-rising. The Colorado Milling & Elevator Company. 311,949, renewed Apr. 10, 1954. O. G. Feb. 16.
Flour, Wheat. Pillsbury Flour Mills Company. 244,073, July 10, 1928. Republished Feb. 16.
Flour, Wheat, enriched wheat flour, self-rising wheat flour, etc. Pillsbury Mills, Inc. 585,609, Feb. 16; Serial No. 595,153, published Nov. 3, 1953.
Lard, ham, bacon, and scrapple. F. G. Vogt & Sons, Inc. 95,723, re-renewed Mar. 3, 1954. O. G. Feb. 16.
Olive oil. Merlino, Angelo, & Sons. 585,599, Feb. 16; Serial No. 571,448, published Nov. 10, 1953.
Seasoning composition, Food. G. L. Berry. 585,850, Feb. 16; Serial No. 605,460.
Seed, Bird, fish food, and turtle food. House of Huston, Inc. 585,883, Feb. 16; Serial No. 650,508.
Spices. "Pilotlab." 585,884, Feb. 16; Serial No. 652,151.
Vegetables, Fresh. Point Sal Growers and Packers. 585,869, Feb. 16; Serial No. 636,491.
Water ice and sherbert, Flavored. Eisenhart's Dairy, Inc. 585,854, Feb. 16; Serial No. 618,349.

CLASS 47

Champagnes and wines. Theonett & Co., Inc. 307,366, renewed Oct. 24, 1953. O. G. Feb. 16.
Wines. C. Battista. 307,565, renewed Oct. 31, 1953. O. G. Feb. 16.

CLASS 50

Artificial flowers. Benray Manufacturing Company. 585,703, Feb. 16; Serial No. 636,197, published Nov. 3, 1953.
Christmas tree ornaments, Colored translucent plastic. W. D. Cahill. 585,770, Feb. 16; Serial No. 644,099, published Nov. 3, 1953.
Closure caps for cans, jars and bottles. Jaques Manufacturing Company. 585,679, Feb. 16; Serial No. 632,427, published Nov. 10, 1953.
Road signs, emblems, and badges. The American Automobile Association. 303,862, Jan. 13, 1933. Republished Feb. 16.
Straws, Drinking. Jay Dee Products Co., Inc. 585,796, Feb. 16; Serial No. 645,895, published Nov. 3, 1953.
Straws, Drinking. Maryland Paper Products Co 585,768, Feb. 16; Serial No. 644,043, published Nov. 3, 1953.
Tarpaulins and tents. Belknap Hardware and Manufacturing Company. 585,840, Feb. 16; Serial No. 648,358, published Nov. 17, 1953.
Vinyl or other plastic coated fabrics simulating leather. Paramount Garment Company. 585,786, Feb. 16; Serial No. 645,254, published Nov. 10, 1953.

CLASS 51

Goods—Cologne, after-shaving lotion, hair lotion, etc. The Lambert Company. 585,874, Feb. 16; Serial No. 637,999.
Cologne and shave lotion. Lenthéric, Incorporated. 585,802, Feb. 16; Serial No. 646,225, published Oct. 27, 1953.
Eye shadow. Primrose House, Inc. 585,800, Feb. 16; Serial No. 646,165, published Oct. 27, 1953.
Face cream. The Andrew Jergens Company. 585,757, Feb. 16; Serial No. 643,329, published Nov. 17, 1953.
Hair-dressing and setting lotion. Lenthéric, Incorporated. 585,736, Feb. 16; Serial No. 640,464, published Oct. 27, 1953.
Perfume, cologne, toilet water, etc. Les Parfums de Dana, Inc. 585,710, Feb. 16; Serial No. 637,054, published Oct. 27, 1953.
Perfumery etc. E. Wertheimer et Cie. 100,463, Oct. 20, 1914. New certificate. O. G. Feb. 16.
Perfumes, eau de cologne, stick cologne. Old Empire Manufacturing Chemists, Incorporated. 585,672, Feb. 16; Serial No. 630,905, published Nov. 17, 1953.
Powder retainer for false teeth. J. G. Hobson. 585,714, Feb. 16; Serial No. 637,586, published Oct. 27, 1953.

CLASS 52

Chemical compound for use in cleaning and mothproofing of rugs, etc. Dri-Wear Fur Processing Co. 585,751, Feb. 16; Serial No. 642,451, published Nov. 17, 1953.

Cleaner, Liquid detergent germicide. Lazarus Laboratories, Inc. 585,758, Feb. 16; Serial No. 643,345, published Nov. 24, 1953.

Cleaners, colored penetrants, and developers. Magnaflux Corporation. 585,864, Feb. 16; Serial No. 632,163.

Composition for the removal of all foreign substance from and the preservation of the metal in steam boilers, etc. Gillespie & Sons. 585,705, Feb. 16; Serial No. 636,564, published Nov. 24, 1953.

Dye and cleaner, Combination. Aerosol Products Corporation. 585,685, Feb. 16; Serial No. 633,247, published Nov. 24, 1953.

Laundry bleach and cleanser. E. Bierhaus and Sons. 585,648, Feb. 16; Serial No. 625,579, published Nov. 17, 1953.

Liquid for cleaning surfaces of glass, wood, porcelain, painted walls, and the like. National Laboratories, Inc. 585,713, Feb. 16; Serial No. 637,284, published Nov. 24, 1953.

Low-octane fuel composition useful for removing carbon and other combustion chamber deposits. Standard Oil Company of California. 585,745, Feb. 16; Serial No. 641,749, published Oct. 27, 1953.

Preparation for use in cleaning the hands. Amaza Laboratories. 585,607, Feb. 16; Serial No. 592,181, published Feb. 13, 1951.

Shampoo. M. C. Schwab. 311,562, renewed Mar. 27, 1954. O. G. Feb. 16.

Soaps. Società Accomandita Semplice Franco Cella & C. 585,744, Feb. 16; Serial No. 641,748, published Nov. 24, 1953.

Washing compounds. James Pyle & Sons. 40,823, renewed July 28, 1953. O. G. Feb. 16.

CLASS 100

Investment advisory service. Colvin, Mendenhall & Co. 585,845, Feb. 16; Serial No. 590,073, published Nov. 3, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF FEBRUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Gisholt Machine Company, assignee: *See*—
Weaver, Ira A., and Phelps.

Patterson, Edgar W., Downey, Calif. Frangible piston ring. Re. 23,782, Feb. 16.

Phelps, Clyde H.: *See*—
Weaver, Ira A., and Phelps.

Smith, Raymond D., Easton, Conn. Demountable time switch unit for universal use. Re. 23,783, Feb. 16.

Weaver, Ira A., and C. H. Phelps, Springfield, Ill., assignors, by mesne assignments, to Gisholt Machine Company, Madison, Wis. Balance testing appliance. Re. 23,784, Feb. 16.

Weaver, Ira A., and C. H. Phelps, Springfield, Ill., assignors, by mesne assignments, to Gisholt Machine Company, Madison, Wis. Balance testing appliance. Re. 23,785, Feb. 16.

LIST OF PLANT PATENTEES

Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,251, Feb. 16.

Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,252, Feb. 16.

Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,253, Feb. 16.

Breedlove Nurseries, assignee: *See*—
Swim, Herbert C.

Jackson & Perkins Company, assignee: *See*—
Boerner, Eugene S.

Merrill, Grant, Red Bluff, Calif. Nectarine tree. 1,256, Feb. 16.

Merrill, Grant, Red Bluff, Calif. Peach tree. 1,257, Feb. 16.

Stark Bro's Nurseries and Orchards Company, assignee: *See*—
Swim, Herbert C.

Swim, Herbert C., Ontario, Calif., assignor, by mesne assignments, to Stark Bro's Nurseries and Orchards Company, Louisiana, Mo. Rose plant. 1,254, Feb. 16.

Swim, Herbert C., Ontario, Calif., assignor, by mesne assignments, to Breedlove Nurseries. Rose plant. 1,255, Feb. 16.

LIST OF DESIGN PATENTEES

Ahlgren, Axel W.: *See*—
Borchers, Earl M., and Ahlgren.

Alberts, Clarice C., Los Angeles, Calif. Shoe heel protector. 171,476, Feb. 16.

American Cabinet Hardware Corporation, Rockford, Illinois, assignee: *See*—
Borchers, Earl M.
Borchers, Earl M., and Ahlgren.

Anderson, Reinhold J., Red Oak, Iowa. Tie rack. 171,477, Feb. 16.

Babel, Rudolph M., Pawtucket, R. I., assignor to General Electric Company. Clock. 171,478, Feb. 16.

Bassaraba, Henry R., Chicago, Ill., assignor to The Merit Company. Escutcheon plate. 171,479, Feb. 16.

Beck, Robert C., Los Angeles, Calif. Folding stereoscopic viewer. 171,480, Feb. 16.

Behnk, Donald J., Pittsburgh, assignor, by mesne assignments, to Westinghouse Electric Corporation, East Pittsburgh, Pa. Index file unit. 171,481, Feb. 16.

Bickel, Leslie H. M., Chula Vista, Calif. Respirator. 171,482, Feb. 16.

Bloesch, Donald G., Chicago, Ill. Game board. 171,483, Feb. 16.

Bond, Scott R., North Plainfield, N. J., assignor to Lorentzen Hardware Mf'g Corp., New York, N. Y. Tassel for pull cords. 171,484, Feb. 16.

Borchers, Earl M., assignor to American Cabinet Hardware Corporation, Rockford, Illinois, Rockford, Ill. Cabinet door catch. 171,485, Feb. 16.

Borchers, Earl M., and A. W. Ahlgren, assignors to American Cabinet Hardware Corporation, Rockford, Illinois, Rockford, Ill. Surface mount door catch. 171,486, Feb. 16.

Borowitz, David, assignor to Bradley Manufacturing Company, Chicago, Ill. Electric lamp base. 171,487, Feb. 16.

Borowitz, David, assignor to Bradley Manufacturing Company, Chicago, Ill. Electric lamp base. 171,488, Feb. 16.

Borowitz, David, assignor to Bradley Manufacturing Company, Chicago, Ill. Electric lamp base. 171,489, Feb. 16.

Borowitz, David, assignor to Bradley Manufacturing Company, Chicago, Ill. Electric lamp base. 171,490, Feb. 16.

Bradley Manufacturing Company, assignee: *See*—
Borowitz, David.

Bunting Glider Company, assignee: *See*—
Goldberg, Aaron S.

Childers Manufacturing Co., assignee: *See*—
Childers, Robert A., Miller, and Smith.

Childers, Robert A., C. C. Miller, and C. Smith, assignors to Childers Manufacturnig Co., Houston, Tex. Metal awning for a casement window. 171,491, Feb. 16.

Coro, Inc., assignee: *See*—
Katz, Adolph.

Erickson, Walter T., and M. J. Palmu, Superior, Wis. Helmet. 171,492, Feb. 16.

Fisher, Bruce & Company, assignee: *See*—
Muench, Toni O.

General Electric Company, assignee: *See*—
Babel, Rudolph M.

Goldberg, Aaron S., assignor to Bunting Glider Company, Philadelphia, Pa. Chair. 171,493, Feb. 16.

Goldberg, Aaron S., assignor to Bunting Glider Company, Philadelphia, Pa. Chair. 171,494, Feb. 16.

Gray, Walter R., Redondo Beach, Calif., assignor to Mercury International Manufacturing Corporation. Coin operated vending machine. 171,495, Feb. 16.

Hallward, Michael, Swampscott, assignor to Signal Manufacturing Co., Lynn, Mass. Fender flap. 171,496, Feb. 16.

Hawkinson, Paul E., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Tire. 171,497, Feb. 16.

Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Paul E.

Hensley, Charles W., Seneca, Mo. Bowl. 171,498, Feb. 16.

Hyman, Sidney, New York, N. Y. Handbag. 171,499, Feb. 16.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,500, Feb. 16.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,501, Feb. 16.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,502, Feb. 16.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,503, Feb. 16.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,504, Feb. 16.

Krueger, Leo, Tucson, Ariz. Air diffuser for ceilings. 171,505, Feb. 16.

Laird, Floyd A., Bend, Oreg. Combination folding camp, boat, and lawn chair. 171,506, Feb. 16.

Landorf, Howard, assignor to Sam Landorf and Company, Inc., New York, N. Y. Child's dress. 171,507, Feb. 16.

Landorf, Sam, and Company, Inc., assignee: *See*—
Landorf, Howard.

Laszlo, Erno, Company, The, assignee: *See*—
Otto, Carl L.

Legler, J. Edward, Fresno, Calif. Harmonica. 171,508, Feb. 16.

Lightbourn, Salvador, Los Angeles, Calif. Aircraft. 171,509, Feb. 16.

Loew, Elliott R., Great Neck, N. Y. Advertising display or similar article. 171,510, Feb. 16.

Lorentzen Hardware Mf'g Corp., assignee: *See*—
Bond, Scott R.

Marholz, Richard C., Chicago, Ill., assignor to Raytheon Manufacturing Company. Escutcheon plate for television receivers. 171,511, Feb. 16.
Mercury International Manufacturing Corporation, assignee: *See*—
Gray, Walter R.
Merit Company, The, assignee: *See*—
Bassaraba, Henry R.
Miller, Claud C.: *See*—
Childers, Robert A., Miller, and Smith.
Miller, Harry S., Los Angeles, Calif. Table lamp. 171,512, Feb. 16.
Muench, Toni O., East Liverpool, Ohio, assignor to Fisher, Bruce & Company, Philadelphia, Pa. Plate or similar article. 171,513, Feb. 16.
Muench, Toni O., East Liverpool, Ohio, assignor to Fisher, Bruce & Company, Philadelphia, Pa. Plate or similar article. 171,514, Feb. 16.
Olsen, Kenneth D., Madison, N. J. Tablet dispenser. 171,515, Feb. 16.
Otto, Carl L., assignor to The Erno Laszlo Company, New York, N. Y. Cosmetic container. 171,516, Feb. 16.
Pachico, Henry, Concord, Calif. Candelstick. 171,517, Feb. 16.
Palmu, Matt J.: *See*—
Erickson, Walter T., and Palmu.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 171,518, Feb. 16.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 171,519, Feb. 16.
Raytheon Manufacturing Company, assignee: *See*—
Marholz, Richard C.
Signal Manufacturing Co., assignee: *See*—
Hallward, Michael.
Smith, Charles: *See*—
Childers, Robert A., Miller, and Smith.
Spradling, Thomas W., Sappington, Mo. Lady's utility bag. 171,520, Feb. 16.
Taffae, Israel S., Cedarhurst, N. Y. Upholstered chair or similar article. 171,521, Feb. 16.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Westinghouse Electric Corporation, assignee: *See*—
Behnk, Donald J.
Zimmerman, Charles H., assignor to Zimmerman Packing Company, Norwood, Ohio. Gasket cutter blade. 171,522, Feb. 16.
Zimmerman Packing Company, assignee: *See*—
Zimmerman, Charles H.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF FEBRUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A-B-C Packaging Machine Corporation, assignee: *See*—
Neal, Morris P.
A. R. F. Products, Inc., assignee: *See*—
Riddiford, Milton, and Goldstein.
Adams, Cecil E., assignor to The Denison Engineering Company, Columbus, Ohio. Intermittently rotatable device with servo control. 2,669,226, Feb. 16.
Adams, Gail D., and D. W. Kerst, Urbana, Ill., assignors to the United States of America as represented by the Secretary of the Navy. Means for improving the yield from betatron X-ray generators. 2,669,652, Feb. 16.
Air Reduction Company, Incorporated, assignee: *See*—
Gilroy, John.
Ajax Trucks Limited, assignee: *See*—
Williams, John B.
Akre, Arthur L., Vancouver, British Columbia, Canada. Vane propellers. 2,669,309, Feb. 16.
Aktiebolaget Kontrollinstrument, assignee: *See*—
Hysing, Erik G.
Alexander, Bettye, assignee: *See*—
Fletcher, Russell H.
Alexander, Carl J.: *See*—
Bowers, Raymond W., and Alexander.
Allen, Marvin K., Houston, Tex., and R. C. Ulm, Scherer-ville, assignors to Graver Tank & Mfg. Co., Inc., East Chicago, Ind. Floating roof. 2,669,372, Feb. 16.
Allied Chemical & Dye Corporation, assignee: *See*—
Miller, Charles B., and Smith.
Alrose Chemical Company, assignee: *See*—
Zussman, Hyman W., and Bernstein.
American Car and Foundry Company, assignee: *See*—
Schanz, Arthur C.
Shields, Robert A.
Watson, Edmund A., and Preston.
American Coleman Company, The, assignee: *See*—
Celien, Raymond A.
American Cyanamid Company, assignee: *See*—
Long, Robert S., and Buckwalter.
Mutaffis, Thomas D.
Scalera, Mario, and Tsang.
American-National Bag & Burlap Co., Inc., assignee: *See*—
Spitz, Isidor.
American Optical Company, assignee: *See*—
Glancy, Anna E., and Davis.
American Phenolic Corporation, assignee: *See*—
Klostermann, Curt W.
American Seating Company, assignee: *See*—
Hoven, Alfred C., and Nordmark.
American Viscose Corporation, assignee: *See*—
Dooley, William P.
Walmsley, Leslie L.
Andersen, Raymond C., Lombard, assignor to Chicago Metal Hose Corporation, Maywood, Ill. Tube corrugating machine. 2,669,278, Feb. 16.
Anderson, Ralph L., East Moline, assignor to Deere & Company, Moline, Ill. Gathering head for combines. 2,669,082, Feb. 16.
Anderson, Velma, assignee: *See*—
Fletcher, Russell H.
André, Henri G., Montmorency, France, assignor to Yardney International Corp., New York, N. Y. Electrical accumulator. 2,669,594, Feb. 16.
Angelmyer, Alfred A., Dayton, Ohio. Power unit. 2,669,426, Feb. 16.
Anglo-Iranian Oil Company Limited, assignee: *See*—
MacLean, Thomas T.
Annis, Richard R., Colebrook, N. H., S. Cohen, and H. Haselkorn, Asbury Park, N. J., assignors to the United States of America as represented by the Secretary of the Army. Contact potential variable potential charger. 2,669,665, Feb. 16.
Antles, Leo C., Wenatche, Wash. Treating and applying live pollen. 2,669,066, Feb. 16.
Appliance Engineering Co., assignee: *See*—
Beuscher, William B.
Archibald, Frederick R., Duluth, Minn., assignor to United States Steel Corporation. Flotation method and reagent. 2,669,355, Feb. 16.
Archibald, Frederick R., Toronto, Ontario, Canada, assignor to United States Steel Corporation. Preparing flotation reagents. 2,669,545, Feb. 16.
Arisman, Mervin B.: *See*—
Daily, Arthur M., Arisman, and Pierce.
Arliss, Stanley A., Long Hill, Conn. Auxiliary tool adapter for drill presses. 2,669,162, Feb. 16.
Armitage, Clifford F., South Orange, assignor to Colloid Chemical Laboratories, Inc., Cedar Knolls, N. J. Treating cashew nut shell liquid with fluoboric acid. 2,669,554, Feb. 16.
Armour and Company, assignee: *See*—
Bunding, Irby M.
Thompson, Robert E.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Annis, Richard R., Cohen, and Haselkorn.
Cushman, Walton W.
Flanagan, Robert.
Rauch, Alexander.
Arnold, Paul D., assignee: *See*—
Rosenberg, Isadore B.
Aronson, Charles N., Arcade, N. Y. Rotatable support for cylinders. 2,669,364, Feb. 16.
Arrow-Hart & Hegeman Electric Company, The, assignee: *See*—
Johnson, David W.
Asaro, Vito, and E. P. Krajewski, assignors to L. A. Young Spring & Wire Corporation, Detroit, Mich. Spring cushion assembly. 2,669,292, Feb. 16.
Athey Products Corporation, assignee: *See*—
Kling, Robert W.
Atlantic Development Company, Inc., assignee: *See*—
De Lancey, Warren H.
Atlas Mineral Products Company of Pennsylvania, The, assignee: *See*—
Seymour, Raymond B., and Desch.
Augustin, Harold O., Lincoln, Nebr., assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, Making V-belts. 2,669,280, Feb. 16.
Automatic Temperature Control Co., Inc., assignee: *See*—
Macgeorge, William D.
Avco Manufacturing Corporation, assignee: *See*—
Stelzer, Alphonse C.
Aversten, Karl J., assignor to Svenska Aktiebolaget Gas-accumulator, Lidingo, Sweden. Arrangement for measuring electric energy in short duration time intervals. 2,669,638, Feb. 16.
Babbitt, Bethel J., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Molding apparatus. 2,668,985, Feb. 16.
Babee-Tenda License Corporation, assignee: *See*—
Puls, Alfred E., and Swenson.
Babicz, George, Chicago, Ill. Device for aligning feed of paper sheets in printing machines. 2,669,454, Feb. 16.
Bader, Walter A., Stockton, Calif. Artificial denture. 2,669,021, Feb. 16.
Badertscher, Dana K.: *See*—
Toncray, Millard H., and Badertscher.
Badger, Algernon S., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Pressure indicating device. 2,669,213, Feb. 16.
Baechler, Joseph, Vaud, Switzerland. Means for making toy structural units. 2,668,999, Feb. 16.
Baggott, Edmund W., Brooklyn, assignor to Ideal Toy Corporation, Hollis, N. Y. Toy sword. 2,669,062, Feb. 16.
Bagley, John F., Jr., South Hadley, assignor to Stanley Home Products, Inc., Westfield, Mass. Brush. 2,668,971, Feb. 16.
Bailey, James, and J. Pinsky, West Hartford, and C. G. Reber, Newington, assignors to Plax Corporation, West Hartford, Conn. Increasing the tear resistance of plastic film. 2,668,988, Feb. 16.
Bailey, Robert E., Arlington, Vt. Corner brace. 2,669,497, Feb. 16.
Bair, Julian H., Seattle, Wash. Electrically heated vaporizer. 2,668,993, Feb. 16.
Baker, Benjamin P.: *See*—
MacNeill, John B., Leeds, and Baker.
Baker, George L., Newark, Del., assignor to Seaplant Chemical Corporation, New Bedford, Mass. Gelling compositions. 2,669,519, Feb. 16.
Bakke, Alfred H., assignee: *See*—
Mullins, Edward J.
Ballard, Robert G., Saugus, Mass., assignor to General Electric Company. Mass measuring liquid level float gauge. 2,669,123, Feb. 16.
Banker, Oscar H., Evanston, assignor to New Products Corporation, Chicago, Ill. Hydraulic control for steering clutches. 2,669,330, Feb. 16.
Baracate, Stephen, Troy, N. Y. Infant's feeding device. 2,669,234, Feb. 16.

Bargen, William J., Waukegan, Ill. School desk seat support. 2,669,288, Feb. 16.

Barrett-Lennard, Hardinge, Lyons, Ill. Valve arrangement for flush tanks. 2,668,960, Feb. 16.

Barter, Robert F., Ruth, Nev. Method and apparatus for making slides. 2,669,279, Feb. 16.

Besci, Joseph, Brooklyn, N. Y. Safety control device for heating burners. 2,669,298, Feb. 16.

Baston, Cyril E., Glenshaw, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Hand controller for plural drive motors. 2,669,682, Feb. 16.

Baxter, Joseph, Jr., Franklin, assignor to The Black-Clawson Company, Hamilton, Ohio. Paper machinery. 2,669,165, Feb. 16.

Bayer, Otto: *See*—
Schmelzer, Albert, and Bayer.

Beach, Earl F.: *See*—
Owens, James B., and Beach.

Beach, Perry A., Rochester, Minn. Filler disk for buffing machines. 2,668,976, Feb. 16.

Becker, Charles H., Ironwood, Mich. Food carrying and preparation case. 2,669,641, Feb. 16.

Becton Dickinson and Company, assignee: *See*—
Smoot, John H.

Beetz, Pierre, Liege, Belgium, assignor to Industrial and Financial Association Inc., Panama, Republic of Panama. Externally heated, revolving furnace. 2,669,444, Feb. 16.

Behl, John D., assignor to Sutherland Paper Company, Kalamazoo, Mich. Machine for erecting double side walls on double walled cartons. 2,669,167, Feb. 16.

Belford, Alexander, assignor to Scott & Williams, Incorporated, Laconia, N. H. Knitting machine. 2,669,104, Feb. 16.

Bell Aircraft Corporation, assignee: *See*—
Hunsinger, Johnathon W.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Blair, Royer R.
Boghosian, William H., Och, and Weber.
Carpenter, Warren W.
Cutler, Cassius C.
Edmonds, Robert W.
Goodall, William M.
Gray, Frank.
Maggio, John B.
Mason, Warren P., and Matthias.
Meacham, Larned A.
Och, Henry G., and Parkinson.
Pearson, Gerald L.
Pfann, William G.

Bendickson, Merle S., San Gabriel, Calif. Grinding machine. 2,669,073, Feb. 16.

Bendix Aviation Corporation, assignee: *See*—
Bimberg, Elmer M.
MacDuff, Stanley I.
Parker, Leland C.
Price, Earl R.
Rampton, Lauren E.

Benz, Johannes, Dusseldorf, Germany. Apparatus for packaging plastic materials. 2,669,077, Feb. 16.

Bergan, Martin D., Westfield, assignor to The Thomas & Betts Co., Elizabeth, N. J. Dead-end connector 2,669,600, Feb. 16.

Bergmann, Paul F., assignor to Johnson Products, Inc., Muskegon, Mich. Adjusting screw assembly for rocker arms. 2,669,228, Feb. 16.

Bernhard, John H., Omaha, Nebr. Barge tipple. 2,669,210, Feb. 16.

Bernstein, Robert L.: *See*—
Zussman, Hyman W., and Bernstein.

Berry, Robert I., Chicago, Ill. Conveyer. 2,669,343, Feb. 16.

Berthiez, Charles W., Bizy Vernon, assignor to Societe Anonyme dite: Societe Nouvelle de Construction de Machines-Outils et d'Outillage Procedes C. W. B., Paris, France. Selecting device for controlling machines or apparatus members. 2,669,214, Feb. 16.

Bethlehem Steel Company, assignee: *See*—
White, William E.

Beuscher, William B., assignor, by mesne assignments, to Appliance Engineering Co., Kansas City, Mo. Wringer head for washing machines. 2,669,110, Feb. 16.

Bierly, Lester A., Silver Springs, Fla., assignor, by mesne assignments, to Diamond Alkali Company, Cleveland, Ohio. Flame resistant compositions. 2,669,521, Feb. 16.

Biggs, Glenn C.: *See*—
Geiselman, Ralph A., and Biggs.

Bigwood, Joshua, and Son Limited, assignee: *See*—
Tinley, Ernest L., and Driver.

Bimberg, Elmer M., Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Governor. 2,669,229, Feb. 16.

Bird, Stanley P., Verona, assignor to Breeze Corporations, Inc., Newark, N. J. High attenuation shielded lead structure. 2,669,695, Feb. 16.

Birmingham Tool & Gauge Company Limited, assignee: *See*—
Tallis, Charles E.

Bishofberger, Carl J., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Pump and motor hydraulic actuator. 2,669,095, Feb. 16.

Black-Clawson Company, The, assignee: *See*—
Baxter, Joseph, Jr.

Blaha, Emil, Cheltenbam, assignor to Selas Corporation of America, Philadelphia, Pa. Ceramic distributor for radiant gas burners. 2,669,300, Feb. 16.

Blair, Royer R., Berkeley Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Varistor curve tracer. 2,669,004, Feb. 16.

Bleuler, Olga, assignee: *See*—
Marko, Adolf, and Kordesch.

Bliss, George L.: *See*—
Chase, Charles R., and Bliss.

Blomquist, Alfred T., F. T. Fiedorek, and J. F. Ryan, Jr., Ithaca, N. Y., assignors to the United States of America as represented by the Secretary of the Navy. Improving the properties of certain explosives. 2,669,576, Feb. 16.

Blue Channel Corporation, assignee: *See*—
Fellers, Carl R.

Boeing Airplane Company, assignee: *See*—
Bosserman, Charles A.

Boghosian, William H., Summit, H. G. Och, Short Hills, and B. T. Weber, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Gun data computer having spot correction means. 2,669,386, Feb. 16.

Bohaboy, Edward J., Berwyn, and C. J. Roach, Oak Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for applying terminals to electrical conductor wires. 2,668,950, Feb. 16.

Bolt, John A.: *See*—
Bransky, David W., Bolt, Stacy, and Feller.

Bonnett, Horace W.: *See*—
Jensen, Harry T., and Bonnett.

Borowick, Emma G., New York, N. Y. Dispenser or applicator. 2,669,232, Feb. 16.

Bosserman, Charles A., assignor to Boeing Airplane Company, Seattle, Wash. Tab control. 2,669,401, Feb. 16.

Bouchard, Orezul, Montreal, Quebec, Canada. Log-barking machine having a gimbal mounting for toothed log-feeding wheels. 2,669,266, Feb. 16.

Bowen Products Corporation, assignee: *See*—
Otte, Henry.

Bowers, Raymond W., Three Rivers, and C. J. Alexander, Moore Park, assignors to Wells Manufacturing Corporation, Three Rivers, Mich. Hydraulically-adjustable horizontal band-sawing machine. 2,669,261, Feb. 16.

Bowie, Benjamin T., Greenville, S. C. Bulb changing device. 2,669,478, Feb. 16.

Bowman, Charles C.: *See*—
Sletten, Vernon O., and Bowman.

Bowman, Howard J., assignor to Trent Tube Company, East Troy, Wis. Method and apparatus for the production of welded tubing. 2,669,639, Feb. 16.

Bowser, Inc., assignee: *See*—
Ehrman, Frederick S.
Mankin, Paul A.

Boyd, Clyde R., Baltimore, Md. Combined electrically-mechanically operated clock. 2,669,088, Feb. 16.

Bradbury, Ray C., Alcomdale, Alberta, Canada. Lid lifting tool. 2,669,143, Feb. 16.

Bradley, Caton, Durham, Conn., assignor, by mesne assignments, to The Sessions Clock Company. Snap-action device. 2,669,618, Feb. 16.

Bramlet, Robert Q., assignee: *See*—
Campbell, Rex H.

Branick, Charles E., Fargo, N. Dak. Bumper jack. 2,669,422, Feb. 16.

Branick, Charles E., Fargo, N. Dak. Bumper jack. 2,669,424, Feb. 16.

Bransky, David W., and J. A. Bolt, Chicago, Ill., M. W. Stacy, Valparaiso, Ind., and M. Feller, assignors to Standard Oil Company, Chicago, Ill. Bitumen and polyvalent metal hydrocarbon oil sulfonate composition and making same. 2,669,525, Feb. 16.

Bredimus, Elsie, Oakland, N. J., and W. D. Foster, Eustis, Fla., said Foster assignor to Foster and Foster. Gravity operated timing device. 2,669,087, Feb. 16.

Breeze Corporations, Inc., assignee: *See*—
Bird, Stanley P.

Brehm, Charles M., assignor to The Steel Products Engineering Company, Springfield, Ohio. Cam operated trimming dies. 2,669,302, Feb. 16.

Bremer, Hermann F., assignor to Rainbows, Inc., Bronx, N. Y. Cup dispenser. 2,669,498, Feb. 16.

Breslow, Ben B., assignor to Utility Appliance Corp., Los Angeles, Calif. Hub to shaft connection. 2,669,471, Feb. 16.

Breth, Walter J., assignor to The General Tire & Rubber Company, Akron, Ohio. Folding the ends of a fabric band over the end shoulders of a tire building drum. 2,669,281, Feb. 16.

Briggs, Southwick W., Washington, D. C. Filter and adsorber for fluid treatment. 2,669,318, Feb. 16.

Briggs & Stratton Corporation, assignee: *See*—
Brown, Hugh S.

British Celanese Limited, assignee: *See*—
Massey, Kenneth, and Patchett.

Brooks, E. J., Company, assignee: *See*—
Brooks, Winfred M.

Brooks, Winfred M., West Orange, assignor to E. J. Brooks Company, Newark, N. J. Bag seal. 2,669,476, Feb. 16.

Brow, Chester W., Whitman, Mass. Exposure meter for movie cameras. 2,669,155, Feb. 16.

Brown, Alfred G., Minneapolis, Minn. Ice-cream scoop. 2,669,194, Feb. 16.

Brown, Forrest W., New Canaan, assignor to The Reflectone Corporation, Stamford, Conn. Moving target generating device. 2,669,033, Feb. 16.

Brown, Harold P., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Elasticizing plastic carboxyl containing synthetic polymeric rubbery materials and elastic products produced thereby. 2,669,550, Feb. 16.

Brown, Hugh S., Wauwatosa, assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Splash type lubricating device for single cylinder horizontal internal-combustion engines. 2,669,322, Feb. 16.

Brown, Roger W., assignor to Cone Automatic Machine Company Inc., Windsor, Vt. Out-of-stock responsive mechanism. 2,669,345, Feb. 16.

Brown Steel Tank Company, assignee: *See*—
Brown, Walter V., and Logemann.

Brown, Walter V., Minneapolis, and W. F. Logemann, St. Paul, assignors to Brown Steel Tank Company, Minneapolis, Minn. Self-venting fill cap for tank bodies. 2,669,250, Feb. 16.

Bruegger, Ernest, Massillon, Ohio, assignor to The Griscom-Russell Company, New York, N. Y. Making finned tubes. 2,669,012, Feb. 16.

Brumbaugh, Isaac V., Clayton, Mo. Making valves. 2,669,011, Feb. 16.

Brumbaugh, Isaac V., Clayton, Mo. Valve. 2,669,418, Feb. 16.

Brus, Emile P., Kansas City, Mo. Electrical plug with compressible means to retain contacts therein. 2,669,701, Feb. 16.

Bryant Chucking Grinder Company, assignee: *See*—
Grobey, Paul A.

Bryant Electric Company, The, assignee: *See*—
Webster, Benjamin C.

Buckwalter, Nancy P.: *See*—
Long, Robert S., and Buckwalter.

Bucyrus-Erie Company, assignee: *See*—
Mork, George W.
Reischl, Karl E.

Budd Company, The, assignee: *See*—
Ridgway, Edmund T.

Buell, Charles J., Fort Smith, Ark. Refrigerating system for trucks. 2,669,098, Feb. 16.

Bullard Company, The, assignee: *See*—
Johnson, Ernest H.

Bunding, Irby M., assignor to Armour and Company, Chicago, Ill. Preparation of an adrenal gland stimulating substance. 2,669,536, Feb. 16.

Bunnell, Benjamin E., New Madrid, Mo. Rotary wheel-type ditching machine. 2,669,039, Feb. 16.

Burdett, John C., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Two-speed single-phase induction motor. 2,669,683, Feb. 16.

Burdick, John S., North Muskegon, A. B. Nevins, Muskegon, and J. C. King, North Muskegon, assignors to The Shaw-Walker Company, Muskegon, Mich. Chair seat cushion structure. 2,669,294, Feb. 16.

Burkli, Olga, assignee: *See*—
Marko, Adolf, and Kordesch.

Burton, Hazel C., Gardena, Calif. Colostomy apparatus. 2,669,235, Feb. 16.

Buser, Johann, Riehen, Switzerland. Electric lamp for mixed light. 2,669,676, Feb. 16.

Butterfield, John P., Grosse Pointe Park, assignor to Chrysler Corporation, Highland Park, Mich. Torque compensated link suspension. 2,669,315, Feb. 16.

Byrd, W. Lee, assignee: *See*—
Howard, Oliver W.

California Research Corporation, assignee: *See*—
Gester, George C., Jr., and Sewell.
Lowe, Warren.

Calnetian Blinds, Incorporated, assignee: *See*—
Evans, Charles S.

Campbell, Charles P., assignor to Perkiomen Products, East Greenville, Pa. Container filling device. 2,669,406, Feb. 16.

Campbell, Rex H., assignor of one-half to W. P. Ross and one-half to R. Q. Bramlet, Oakland, Calif. Floor safe. 2,669,198, Feb. 16.

Cantral, John I.: *See*—
Silver, Walter H., and Cantral.

Cargill, Incorporated, assignee: *See*—
Hirsch, Sabine.

Carpenter, Warren W., Garden City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Record controlled reproducing system. 2,669,304, Feb. 16.

Carruthers, Eben H., Warrenton, Oreg. Machine for packing a predetermined weight of bulk product. 2,669,378, Feb. 16.

Carson, Clarence M., Cuyahoga Falls, and J. E. Snyder, Akron, Ohio, assignors, by mesne assignments, to The Goodyear Tire & Rubber Company. Package for liquids. 2,669,351, Feb. 16.

Casco Products Corporation, assignee: *See*—
Johnson, Arthur A.

Castanoli, Alder F., Huntington, and D. F. Parker, Charleston, W. Va. Coal boring unit. 2,669,441, Feb. 16.

Catterall, William E., Elizabeth, N. J., assignor to Standard Oil Development Company. Extractive distillation. 2,669,541, Feb. 16.

Catterall, William E., Elizabeth, N. J., and S. C. Lane, Roselle, N. J., assignors to Standard Oil Development Company. Alcohol synthesis. 2,669,589, Feb. 16.

Cavanaugh, Martin J., Elmira, N. Y. Expanding fishhook. 2,669,053, Feb. 16.

Celanese Corporation of America, assignee: *See*—
Schnizer, Arthur W.

Cellen, Raymond A., Denver, Colo., assignor to The American Coleman Company, Omaha, Nebr. Tractor for semi-trailers and the like. 2,669,317, Feb. 16.

Centre d'Etudes M. B. A. (Mecanique Balistique et Armement), assignee: *See*—
Gourdon, Robert.

Chamberlain, Richard K., and K. P. Hillegass, Akron, Ohio, assignors, by mesne assignments, to The Goodyear Tire & Rubber Company. Automatic clearance adjusting mechanism for single-disk, spot-type brakes. 2,669,327, Feb. 16.

Chase, Charles R., Morrisville, Pa., and G. L. Bliss, Cleveland, Ohio, assignors to United States Steel Corporation. Apparatus for drying a liquid coating on an elongated product. 2,669,031, Feb. 16.

Chattin, Robert C., assignee: *See*—
Severance, Joe.

Chicago Metal Hose Corporation, assignee: *See*—
Andersen, Raymond C.

Chicago Telephone Supply Corporation, assignee: *See*—
Daily, Arthur M., Arisman, and Pierce.

Chisholm, Harry L., Jr.: *See*—
De Lancey, Warren H., Pond, and Chisholm.

Christensen, Albert J., Long Beach, Calif. Fuel mixer. 2,669,508, Feb. 16.

Christensen, Kaj S., Norwalk, Conn. Method and apparatus for producing pinking shears. 2,669,133, Feb. 16.

Chromatic Television Laboratories, Inc., assignee: *See*—
Lawrence, Ernest O.

Chrysler Corporation, assignee: *See*—
Butterfield, John P.
Drinkard, William E.

Clark, Edward, Chicago, Ill. Storage battery plate separator. 2,669,599, Feb. 16.

Clark Equipment Company, assignee: *See*—
Lapsley, Robert.

Clayton, Temple, Parsippany, E. B. Hershberg, West Orange, and B. F. Schoen, Union City, assignors to Schering Corporation, Bloomfield, N. J. Preparation of 3,12-dihydroxy cholenic acids and their esters. 2,669,571, Feb. 16.

Clegg, Samuel E., Plainfield, Ill. Extracting plants with their roots and packing the roots. 2,669,065, Feb. 16.

Clerke, John W., Little Falls, N. J. Threaded joint and element thereof having improved thread form. 2,669,468, Feb. 16.

Clifton Conduit Company, Inc., assignee: *See*—
Pearson, William S.

Cline, Joda, Baisden, W. Va. Convertible gun stock. 2,669,051, Feb. 16.

Clinton, Raymond O., North Greenbush, and S. C. Laskowski, Menands, assignors to Sterling Drug, Inc., New York, N. Y. Tertiary-aminoalkyl 4-amino-2-alkoxy-thiolbenzoates and their preparation. 2,669,564, Feb. 16.

Clinton, Raymond O., North Greenbush, and S. C. Laskowski, Menands, assignors to Sterling Drug, Inc., New York, N. Y. Tertiary-aminoalkyl 4-substituted-amino-2-alkoxythiolbenzoates and their preparation. 2,669,565, Feb. 16.

Clinton, Raymond O., North Greenbush, and S. C. Laskowski, Menands, assignors to Sterling Drug, Inc., New York, N. Y. 4-amino-2-alkoxybenzamides and their preparation. 2,669,583, Feb. 16.

Cloete, Floris, Wilkinsburg, assignor to Rockwell Manufacturing Company, Pittsburgh, Pa. Fluid tight passage joint seal. 2,669,466, Feb. 16.

Cohen, Saul, assignee: *See*—
Schleicher, Paul E.

Cohen, Simon: *See*—
Annis, Richard R., Cohen, and Haselkorn.

Colt, Burton C., Jr., assignor to Tri-State Engineering Company, Washington, Pa. Container. 2,669,373, Feb. 16.

Coleman, Abraham I., Baltimore, Md. Self-adjusting window shade bracket. 2,669,410, Feb. 16.

Colgate-Palmolive Company, assignee: *See*—
McNeill, Oxford D.

Collins & Aikman Corporation, assignee: *See*—
Keen, William R.

Collins Radio Company, assignee: *See*—
Cox, Robert T.
De Long, Vincent R.
Salisbury, Winfield W.
Ward, Curtis E.

Collins, William J. W., New York, N. Y. Protective signal device. 2,669,705, Feb. 16.

Colloid Chemical Laboratories, Inc., assignee: *See*—
Armitage, Clifford F.

Colson Corporation, The, assignee: *See*—
Pehrsson, Sven J.

Condra, Elmo L., Long Beach, Calif. Retrievable cementing plug. 2,669,305, Feb. 16.

Cone Automatic Machine Company Inc., assignee: *See*—
Brown, Roger W.
Miller, Carroll E.

Consolidated Vultee Aircraft Corporation, assignee: *See*—
Larsen, Harry L.
Pall, Francis A., and Pfankuch.

Conte, Juliette A. M., Cannes, France. Electric shaver waste collecting means. 2,669,016, Feb. 16.

Cooper, Lowell, Pasadena, and B. L. McNulty, Altadena, Calif. Fusee holder. 2,669,181, Feb. 16.

Cooper, Virgil K., Hollywood, Calif. Self-wringing mop. 2,668,970, Feb. 16.

Cooper's, Incorporated, assignee: *See*—
Phillips, John W., and Roush.

Corby, John S., Old Windsor, England. Appliance for pressing neckties or strip material. 2,669,045, Feb. 16.

Cord, Howard O., Chicago, Ill., B. G. Morten, Munster, Ind., and C. J. Ryant, Jr., assignors to Standard Oil Company, Chicago, Ill. Immersion heater. 2,669,435, Feb. 16.

Corlett, Webster D., River Forest, and C. G. Mackie, Chicago, Ill., assignors to Standard Screw Company, Hartford, Conn. Making self-locking screws having mismatched threaded sections. 2,668,966, Feb. 16.

Corn Products Refining Company, assignee: *See*—
Kerr, Ralph W., and Katzbeck.
Kite, Francis E.

Coster, Lloyd R., Pine Bluff, Ark., assignor to Food Machinery & Chemical Corporation, San Jose, Calif. Manufacture of chloral. 2,669,585, Feb. 16.

Couse, Kibbey W., Newark, N. J., assignor to Reconstruction Finance Corporation, New York, N. Y. Tail gate for enclosing the rear end of a trailer. 2,669,481, Feb. 16.

Cox, Andrew W., Chase City, Va. Rural mailbox and package support. 2,669,408, Feb. 16.

Cox, Robert T., assignor to Collins Radio Company, Cedar Rapids, Iowa. Shaft control mechanism. 2,669,615, Feb. 16.

Crane Co., assignee: *See*—
Hansen, George E.

Creed and Company Limited, assignee: *See*—
Salmon, Reginald D., Munck, and Turner.

Crowell, Arnold B., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Record controlled printing means. 2,669,178, Feb. 16.

Crowell Consulting Company, assignee: *See*—
Crowell, John H.

Crowell, John H., assignor to Crowell Consulting Company, Houston, Tex. Earth drilling apparatus. 2,669,431, Feb. 16.

Crown Cork & Seal Company, Inc., assignee: *See*—
Erhardt, John E., Jr.

Culbertson, George R., Norfolk, Va. Synchronized vehicle motion controlled record reproducing talking unit. 2,669,457, Feb. 16.

Curcio, Michael, Whitestone, N. Y. Food delivery box. 2,669,385, Feb. 16.

Curtiss-Wright Corporation, assignee: *See*—
Spaulding, Harold K.

Cushman, Walton W., Webb City, Mo., assignor to United States of America as represented by the Secretary of the Army. Resilient wheel mounting. 2,669,448, Feb. 16.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. N-acyloxyalkyl substituted derivatives of aminoalkoxydiarylmethanes and salts thereof. 2,669,577, Feb. 16.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Basically substituted amides of dicarboxylic acids. 2,669,582, Feb. 16.

Cutler, Cassius C., Gillette, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromagnetic lens. 2,669,657, Feb. 16.

Cutler-Hammer, Inc., assignee: *See*—
Kuhn, Clarence W.

Daily, Arthur M., and M. B. Arisman, Elkhart, and D. A. Pierce, South Bend, assignors to Chicago Telephone Supply Corporation, Elkhart, Ind. Preset electrical control instrumentality with plug-in shaft. 2,669,634, Feb. 16.

Dalton, John N., Providence, R. I., and W. B. Kaupin, assignors to Pacific Mills, Lawrence, Mass. Setting wool fabrics. 2,669,002, Feb. 16.

Dannenberg, Hans: *See*—
Deming, Philip H., and Dannenberg.

Darby, Joseph R., Richmond Heights, and L. D. Frederickson, assignors to Monsanto Chemical Company, St. Louis, Mo. Stabilized halogen-containing resins. 2,669,548, Feb. 16.

Darby, Joseph R., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Stabilized halogen-containing resins. 2,669,549, Feb. 16.

Davis, Edgar B., Tangerine, Fla. Sliding jaw screw cap jar wrench. 2,669,141, Feb. 16.

Davis, John K.: *See*—
Glancy, Anna E., and Davis.

Davis, Raymond G.: *See*—
Mesi, Michael J., and Davis.

Dawdy, Harley E., East Alton, Ill. Dual hinge. 2,668,981, Feb. 16.

Dean, John J., Pomona, Calif. Turn indicator for vehicles. 2,669,212, Feb. 16.

Deere & Company, assignee: *See*—
Anderson, Ralph L.
Oehler, William P.
Silver, Walter H., and Cantral.
Swim, Harold N., Jr.

De Lagrevol, Maxime, Paris, and R. Laboureix, Neuilly-sur-Seine, France. Automatic screw pitch change and locking device. 2,669,311, Feb. 16.

De Lancey, Warren H., assignor to Atlantic Development Company, Inc., Springfield, Mass. Oil burning apparatus. 2,669,184, Feb. 16.

De Lancey, Warren H., Springfield, B. P. Pond, Longmeadow, Mass., and H. L. Culsholm, Jr., assignors to Houdaille-Hershey Corporation, Buffalo, N. Y. Adjustable fluid pump. 2,669,189, Feb. 16.

Deller, Anthony W., assignee: *See*—
Pellegrino, Joseph.

Del Mar, Bruce E., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. High strength cable network for impact bulkheads. 2,669,402, Feb. 16.

De Long, Vincent R., assignor to Collins Radio Company, Cedar Rapids, Iowa. Radio frequency matching transformer. 2,669,698, Feb. 16.

De Mart, Le Roy S., Lancaster, Ohio, assignor to Diamond Power Specialty Corporation. Retractable soot blower of the long-travel trolley supported type. 2,668,978, Feb. 16.

Deming, Philip H., Orinda, and H. Dannenberg, Berkeley, assignors to Shell Development Company, Emeryville, Calif. Production of bis (hydroxyaryl) substituted compounds. 2,669,588, Feb. 16.

Denison Engineering Company, The, assignee: *See*—
Adams, Cecil E.

Denlinger, John F.: *See*—
Dudis, Charles G., and Denlinger.

Dent, Harold F., Folcroft, Pa. Sanitary attachment for telephones. 2,669,610, Feb. 16.

Desch, Robert P.: *See*—
Seymour, Raymond B., and Desch.

Deshayes, Pierre M. E., Paris, France. Siphon bottle with gas generator. 2,669,439, Feb. 16.

Despard, Victor R., assignor to Pass & Seymour, Inc., Syracuse, N. Y. Cam switch. 2,669,613, Feb. 16.

De Tastes, Maurice, Paris, France. Electromagnetic attraction motor. 2,669,687, Feb. 16.

De Werth, Robert, New York, N. Y. Shock absorbing shoe heel. 2,669,038, Feb. 16.

Diamond Alkali Company, assignee: *See*—
Blerly, Lester A.
Silsby, Christopher C., Jr.

Diamond Power Specialty Corporation, assignee: *See*—
De Mart, Le Roy S.

Diemer, Gesinus, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Traveling wave tube. 2,669,674, Feb. 16.

Dill, Herbert C., W. H. Lyne, and R. W. Schlumpf, assignors to Hughes Tool Company, Houston, Tex. Roller cutter. 2,669,432, Feb. 16.

Dills, Raymond L., Erie, Pa., assignor to General Electric Company. Unloader. 2,669,384, Feb. 16.

Dinsmore, Albert P., and R. C. Treseder, Dayton, J. W. Light, Greenville, H. M. Geyer, Dayton, and J. C. Whitmer, Bradford, Ohio, assignors to General Motors Corporation, Detroit, Mich. Aircraft propeller speed controller. 2,669,312, Feb. 16.

Ditman, John G., Flushing, assignor to Foster Wheeler Corporation, New York, N. Y. Propane deasphalting of crude residua of hydrocarbon oil. 2,669,539, Feb. 16.

Doat, Robert, Liege, Belgium. Cupola furnace. 2,669,446, Feb. 16.

Dobrowolski, Joseph M., Chicago, Ill. Meat block scrubber. 2,668,968, Feb. 16.

Dodge, Ernest B., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Testing pneumatic tire components. 2,669,119, Feb. 16.

Dodson, James H., Mobile, Ala. Head raising and lowering attachment for drill presses. 2,669,136, Feb. 16.

Doerr, Frank J., Richmond Hill, N. Y. Fishhook remover. 2,669,055, Feb. 16.

Doerr, Harold J., Lovell, Wyo. Jointed measuring instrument. 2,669,026, Feb. 16.

Doll, Henri-Georges, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Resistivity apparatus for obtaining indications of permeable formations traversed by boreholes. 2,669,688, Feb. 16.

Doll, Henri-Georges, assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Method and apparatus for determining earth formation factors. 2,669,689, Feb. 16.

Doll, Henri-Georges, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Resistivity method for obtaining indications of permeable formations traversed by boreholes. 2,669,690, Feb. 16.

Donnelly Electronics, Inc., assignee: *See*—
Donnelly, Joseph T.

Donnelly, Joseph T., Ozone Park, assignor to Donnelly Electronics, Inc., Jamaica, N. Y. Television antenna. 2,669,405, Feb. 16.

Dooley, William P., Dunbar, W. Va., assignor to American Viscose Corporation, Wilmington, Del. Electrolysis of sodium sulfate. 2,669,542, Feb. 16.

Dorkins, Evan E.: *See*—
Wills, Marion C., and W. J. Wills, and Dorkins.

Dorr Company, The, assignee: *See*—
Kivell, Wayne A., and Rankin.

Doty, Arnold S.: *See*—
Larsen, Earl I., Doty, and Williams.

Douglas Aircraft Company, Inc., assignee: *See*—
Del Mar, Bruce E.

Douglas Tool Company, assignee: *See*—
Shell, Julius P.

Dow Chemical Company, The, assignee: *See*—
Easley, John A., Eden, and Swayze.
Miller, Richard W.
Osmun, Roy H.
Wheaton, Robert M.

Dowrelio, Antone, Crockett, Calif. Anchor hoist. 2,669,427, Feb. 16.

Drake, Caddie T., Denver, Colo. Bedclothes support for bedsteads. 2,668,963, Feb. 16.

Dresser, Harry A., assignor to Zonolite Company, Chicago, Ill. Fertilizer conditioner. 2,669,510, Feb. 16.

Dresser Industries, Inc., assignee: *See*—
Newell, Frederick T.

Dreyfus, Sylvain, Lausanne, Switzerland. Machine for blunting the ends of brush bristles. 2,669,075, Feb. 16.

Drinkard, William E., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Overhead valve engine. 2,669,227, Feb. 16.

Driver, Frederick A.: *See*—
Tinley, Ernest L., and Driver.

Droz, Marcel E.: *See*—
Garman, Raymond L., Droz, and Gray.

Dudis, Charles G., and J. F. Denlinger, assignors to The National Cash Register Company, Dayton, Ohio. Motor clutch. 2,669,331, Feb. 16.

Duffing, Paul, assignor to Siemens-Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany. Contact device for synchronous switches. 2,669,621, Feb. 16.

Du Mont, Allen B., Upper Montclair, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Adjacent area illuminator for cathode-ray tubes. 2,669,708, Feb. 16.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Du Mont, Allen B.

Dunlap, William C., Jr., Schenectady, N. Y., assignor to General Electric Company. Making germanium hall plates. 2,669,533, Feb. 16.

Du Pont, E. I. de Nemours and Company, assignee: *See*—
Sperati, Carleton A.

Easley, John A., W. E. Eden and H. E. Swayze, assignors to The Dow Chemical Company, Midland, Mich. Etching machine. 2,669,048, Feb. 16.

Eaton, Claude B., and A. B. Jackson, Albuquerque, N. Mex. Garage door opening means. 2,668,980, Feb. 16.

Eden, William E.: *See*—
Easley, John A., Eden, and Swayze.

Edgemond, John W., Jr., Los Altos, assignor to Magna Engineering Corporation, San Francisco, Calif. Jointerplaner. 2,669,265, Feb. 16.

Edmonds, Robert W., Lake Mohawk, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Broad band testing. 2,669,691, Feb. 16.

Egers, Hans, Berlin-Tempelhof, Germany, assignor to International Standard Electric Corporation, New York, N. Y. Tone wheel to produce frequency-modulated low-frequency oscillations. 2,669,670, Feb. 16.

Egli, Herman K.: *See*—
Ketchpel, Paul A., and Egli.

Ehrman, Frederick S., assignor to Bowser, Inc., Fort Wayne, Ind. Filter signal. 2,669,707, Feb. 16.

Electric Machinery Manufacturing Company, assignee: *See*—
Ferguson, John S.

Ellis-Foster Company, assignee: *See*—
Rust, John B.

Ely, Charles J., assignee: *See*—
Torr, David.

Emhart Manufacturing Company, assignee: *See*—
Holstebroe, Kaye B., and Wimmer.
Kulig, Constantine W.
Merrill, Donald G.

English, John P., Northbrook, and J. Magarinos, Chicago, Ill. Waste container. 2,669,030, Feb. 16.

Enos, John P., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Work-jogging attachment for sewing machines. 2,669,202, Feb. 16.

Entwisle, James J., Ormskirk, England. Electronic timing device. 2,669,677, Feb. 16.

Equitable Paper Bag Co. Inc., assignee: *See*—
Poppe, George W.

Erhardt, John E., Jr., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Annealing apparatus. 2,669,442, Feb. 16.

Erickson, Harry, Raymond, Nebr. Automatic poultry feeder. 2,669,218, Feb. 16.

Erickson, Nels S., assignor to Glass Block Spacer Guide, Inc., Chicago, Ill. Bearing and spacing guide member for glass block panel construction. 2,669,116, Feb. 16.

Evans Case Co., assignee: *See*—
Reilly, Alfred F.

Evans, Charles S., Atherton, assignor to Calnetian Blinds, Incorporated, Oakland, Calif. Venetian blind. 2,669,301, Feb. 16.

Faber, Edgar M.: *See*—
Miller, George E., Faber, and Reeves.

Fabri-Valve Company of America, assignee: *See*—
Hilton, Harold S.

Fadeley, Herbert J., Jr., Philadelphia, Pa. Bookrest. 2,669,058, Feb. 16.

Falk, Joseph, Glastonbury, Conn. Multisocket ejector-wrench for nipples. 2,669,148, Feb. 16.

Farbenfabriken Bayer Aktiengesellschaft, assignee: *See*—
Schmelzer, Albert, and Bayer.

Farris, Victor W., Tenafly, N. J. Safety valve. 2,669,252, Feb. 16.

Faulhaber Company, The, assignee: *See*—
Faulhaber, Roland W.

Faulhaber, Roland W., assignor to The Faulhaber Company, Monroeville, Ohio. Bicycle saddle support. 2,669,283, Feb. 16.

Faulkner, Alfred H.: *See*—
Roberts, Ray J. D., and Faulkner.

Feathercombs, Inc., assignee: *See*—
Smith, Roy A.

Feller, Morris: *See*—
Bransky, David W., Bolt, Stacy, and Feller.

Fellers, Carl R., Amherst, Mass., assignor to Blue Channel Corporation, Port Royal, S. C. Processing of shellfish and crustaceans. 2,669,520, Feb. 16.

Fenton, George D., and E. S. Tideman, Worcester, Mass. Apparatus for installing clips in coil springs. 2,669,275, Feb. 16.

Ferguson, John S., Glenview, Ill., assignor to Electric Machinery Manufacturing Company, Minneapolis, Minn. Safety switch and fuse construction. 2,669,624, Feb. 16.

Fernandez, Carlos J., Marianao, Havana, Cuba. Fastening means for demountable wheels. 2,669,486, Feb. 16.

Fiedorek, Fred T.: *See*—
Blomquist, Alfred T., Fiedorek, and Ryan.

Finch, Harry J., Oil City, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Apparatus for rolling threads into metal pipe. 2,669,139, Feb. 16.

Finch, Harry J., Oil City, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Metal pipe having a rolled thread. 2,669,469, Feb. 16.

Finlay, Walter L., Beaver, Pa., R. I. Jaffee, Worthington, and H. R. Ogden, Columbus, Ohio, assignors to Rem-Cru Titanium, Inc., Midland, Pa. Titanium base alloys containing tin. 2,669,514, Feb. 16.

Fischer, Richard A., assignor to The Garrett Corporation, Los Angeles, Calif. Cabin pressure control. 2,669,175, Feb. 16.

Fisher, Bernard, Philadelphia, Pa. Retaining means for flexible tubes. 2,669,231, Feb. 16.

Fisher, Elmer C., Columbus, Ohio. Adjustable sales tax stamp holder. 2,669,352, Feb. 16.

Fishman, Anita, Chicago, Ill. Chute for flour sifters. 2,669,356, Feb. 16.

Fitz Gerald, Harold G., Los Angeles, Calif. Image slide projector apparatus. 2,669,156, Feb. 16.

Flanagan, Robert, Houston, Tex., assignor to United States of America as represented by the Secretary of the Army. Folding bore sight. 2,669,024, Feb. 16.

Fleming, Myron T., Wyncote, Pa. Safety ski binding. 2,669,459, Feb. 16.

Fletcher, E. C., assignee: *See*—
Fletcher, Russell H.

Fletcher, Russell H., assignor of one-fourth to E. C. Fletcher, one-fourth to V. Anderson, and one-fourth to B. Alexander, Dallas, Tex. Device for transferring fluids. 2,669,483, Feb. 16.

Flight Research, Inc., assignee: *See*—
Haskins, Robert.

Flint, James A., Bexley, Ohio, assignor to The Jeffrey Manufacturing Company. Balanced sectionalized vibratory conveyer. 2,669,344, Feb. 16.

Florence, Estel E., Buffalo, Minn. Adjustable wrench having inner jaw actuated by pivotal handle. 2,669,146, Feb. 16.

Florence Stove Company, assignee: *See*—
Schneider, Frank H.

Florschutz, Fritz E.: *See*—
MacNeill, John B., Florschutz, Lindstrom, and Tremblay.

Foisy, Richard, and J. A. Vezina, Montreal, Quebec, Canada, assignors of one-third to Lucien Forestier, Basking Ridge, N. J. Automatic pick and pick motion in weaving looms. 2,669,260, Feb. 16.

Food Machinery & Chemical Corporation, assignee: *See*—
Coster, Lloyd R.

Foote, Alfred F., Independence, Ohio. Vegetable washing device. 2,669,241, Feb. 16.

Foote, Wilma L., Seattle, Wash. Clamp-on table for the arms of chairs or the like. 2,669,495, Feb. 16.

Ford, Charles J., Akron, Ohio, assignor, by mesne assignments, to The Goodyear Tire & Rubber Company. Electrically conductive material. 2,669,646, Feb. 16.

Forestier, Lucien, assignee: *See*—
Foisy, Richard, and Vezina.

Foster and Foster, assignee: *See*—
Bredimus, Elsie, and Foster.

Foster, Warren D.: *See*—
Bredimus, Elsie, and Foster.

Foster Wheeler Corporation, assignee: *See*—
Ditman, John G.

Fountron Corporation, The, assignee: *See*—
Hilliker, Frank T.

Fox, Benjamin, New York, N. Y. Predetermined counter system. 2,669,388, Feb. 16.

Fox, Joseph M., Haverford, and C. J. Reigh, Altoona, Pa. Apparatus for removing ballast from below railroad track rails. 2,669,041, Feb. 16.

Frampton, Arthur G., Toronto, Ontario, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Universal set-up means for pattern controlled machine tools. 2,669,161, Feb. 16.

Frank, Stanley L., Beaver, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric switch. 2,669,616, Feb. 16.

Frederickson, Leo D.: *See*—
Darby, Joseph R., and Frederickson.

Friedman, Bernard S.: *See*—
Mulholland, Ramon A., and Friedman.
Teter, John W., and Friedman.

Friend, Homer C., Davenport, Iowa. Article of feminine hygiene. 2,669,233, Feb. 16.

Frischmann, Karl, Wetzlar-Garbenheim, assignor to Ernst Leitz G. m. b. H., Wetzlar, Germany. Adjustment mechanism for microscopes. 2,669,158, Feb. 16.

Fröhlich, Johann, Gotzis, Austria, assignor to H. Mueller, Imguetli, Thal, Switzerland. Fastener device for garments and the like. 2,668,954, Feb. 16.

Frost, Edward L.: *See*—
Outcalt, Frederick G., and Frost.

Fuhrmann, John, Ebenezer, N. Y. Mortarboard. 2,669,117, Feb. 16.

Fuller, Clarence W., Yonkers, N. Y. Cam operated sliding jaw closure remover. 2,669,142, Feb. 16.

Gambrill, Richard D., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Leak detecting apparatus. 2,669,660, Feb. 16.

Garber, Josephine R.: *See*—
Johnson, John S., Sterrett, and Garber.

Gardner, Charles P.: *See*—
McIlvried, Edwin J., and Gardner.

Gardner Glenn A.: *See*—
Reynolds, Willards S., and Gardner.

Garman, Raymond L., and M. E. Droz, Pleasantville, and J. W. Gray, White Plains, N. Y., assignors to General Precision Laboratory Incorporated. Supersonic flow meter. 2,669,121, Feb. 16.

Garrett Corporation, The, assignee: *See*—
Fischer, Richard A.

Gary, Wright W., Jr., Pasadena, Calif. Alkaline battery. 2,669,595, Feb. 16.

Gasche, Scott H., assignor to Thomas Hydraulic Speed Controls, Inc., Wichita, Kans. Variable-speed hydraulic coupling. 2,669,332, Feb. 16.

Gaschi, René C. J., Alencon, France. Vulcanizing outfit for repairing rubber articles. 2,668,984, Feb. 16.

Gaskin, Alvin, deceased, Russell Springs; M. Montgomery, Liberty, Ky., executor. Hoisting apparatus. 2,669,425, Feb. 16.

Geeraert Corporation, The, assignee: *See*—
Geeraert, Leon J.

Geeraert, Leon J., Brooklyn, assignor to The Geeraert Corporation, New York, N. Y. Nonrotary gel fuel homogenizer. 2,669,437, Feb. 16.

Geiselman, Ralph A., and G. C. Biggs, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Arc furnace control system. 2,669,673, Feb. 16.

Gelzheiser, Francis L., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,669,627, Feb. 16.

General Aniline & Film Corporation, assignee: *See*—
Mueller, Fritz W. H.
Solonen, Nicholas W., and Randall.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Ballard, Robert G.
Dills, Raymond L.
Dunlap, William C., Jr.
Gruen, Wolf J.
Hammerly, Herman J.
Jewell, William R.
Lichtenfels, Ira W.
Pfuntner, Richard A.
Rawles, William T.
Roberts, John A.
Rowe, Raymond N.
Simmons, James D., Liversidge, and Wrathall.
Swisher, Thomas H.

General Electric Company Limited, The, assignee: *See*—
Sowter, Anthony B.

General Engineering Company (Canada) Limited, The, assignee: *See*—
Segsworth, Robert S.

General Fireproofing Company, The, assignee: *See*—
Straubel, Clarence W.

General Felt Products Co., assignee: *See*—
Horwich, Theodore.

General Gas Light Company, assignee: *See*—
Humphrey, George A.

General Motors Corporation, assignee: *See*—
Dinsmore, Albert P., Treseder, Light, Geyer, and Whitmer.
Harris, Edward P., and Sampson.
Schjolin, Hans O.

General Precision Laboratory, Incorporated, assignee: *See*—
Garman, Raymond L., Droz, and Gray.
White, Reginald A.

General Tire & Rubber Company, The, assignee: *See*—
Breth, Walter J.
Schaffel, Gerson S., and Weinstock.

Gerst, Chris, Detroit, Mich., assignor, by mesne assignments, to Le Roi Company, Milwaukee, Wis. Drive arrangement for truck mixers. 2,669,131, Feb. 16.

Gester, George C., Jr., Berkeley, and D. B. Sewell, Concord, assignors to California Research Corporation, San Francisco, Calif. Liquid mixer and mixing. 2,669,438, Feb. 16.

Geyer, Howard M.: *See*—
Dinsmore, Albert P., Treseder, Light, Geyer, and Whitmer.

Giammaria, John J., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Homopolymers of alkyl N-substituted maleimides. 2,669,555, Feb. 16.

Gibson, Robert C., Birmingham, assignor to Parker Rust Proof Company, Detroit, Mich. Activation of oxalate metal coating compositions. 2,669,532, Feb. 16.

Gillette Company, The, assignee: *See*—
Metzler, Charles L.

Gillette, Roswell S., Erie, Pa. Key holder. 2,669,113, Feb. 16.

Gilowitz, Benjamin, assignor of one-half to H. Litman, Bronx, N. Y. Rubber heel with rotatably adjusted section. 2,669,037, Feb. 16.

Gilroy, John, Sun Prairie, Wis., assignor to Air Reduction Company, Incorporated, New York, N. Y. Manually operated shutoff valve. 2,669,415, Feb. 16.

Glancy, Anna E., Southbridge, Mass., and J. K. Davis, East Woodstock, Conn., assignors to American Optical Company, Southbridge, Mass. Image projection optical system. 2,669,709, Feb. 16.

Glass Block Spacer Guide, Inc., assignee: *See*—
Erickson, Nels S.

Glaza, Vincent J. and W. C., Detroit, Mich. Toothbrush having a removable head. 2,668,973, Feb. 16.

Glaza, William C.: *See*—
Glaza, Vincent J. and W. C.

Godbold, Nat H., Idaho Falls, Idaho, assignor to the United States of America as represented by the United States Atomic Energy Commission. Electromagnetic fluid pump. 2,669,183, Feb. 16.

Goff, John W., assignor to Miller Manufacturing Company, Incorporated, St. Paul, Minn. Guard for poultry drinking fountain bowls. 2,669,220, Feb. 16.

Gold, Harold, East Cleveland, and D. M. Straight, Cleveland, Ohio. Fluid metering system. 2,669,482, Feb. 16.

Goldstein, Richard: *See*—
Riddiford, Milton, and Goldstein.

Goodall, William M., Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Noise reduction in quantized pulse transmission systems with large quanta. 2,669,608, Feb. 16.

Goodrich, B. F., Company, The, assignee: *See*—
Brown, Harold P.
Orr, Marcus O.
Strong, Walter J., and Lindemann.

Goodyear Tire & Rubber Company, The, assignee: *See*—
Augustin, Harold O.
Carson, Clarence M., and Snyder.
Chamberlain, Richard K., and Hillegass.
Ford, Charles J.
Royall, Ivey G., Jr.

Gorbatenko, Dimitri L., San Francisco, Calif. Web feed mechanism for adjustable rotary imprinters. 2,669,453, Feb. 16.

Gordon, Harry, New York, N. Y. Collar stiffener. 2,668,956, Feb. 16.

Goshen Manufacturing Company, Inc., The, assignee: *See*—
Rink, Robert M.

Goslin-Birmingham Manufacturing Company, Inc., assignee: *See*—
Little, John W.

Gould, George H.: *See*—
Irvin, Leslie L., and Gould.

Gourdon, Robert, assignor to Centre d'Etudes M. B. A. (Mecanique Balistique et Armement), Paris, France. Apparatus for sorting articles such as mail. 2,669,365, Feb. 16.

Grand Union Company, The, assignee: *See*—
Just, George A.

Graver Tank & Mfg. Co., Inc., assignee: *See*—
Allen, Marvin K., and Ulm.
Ulm, Reign C.

Gray, Frank, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Code selector. 2,669,706, Feb. 16.

Gray, John W.: *See*—
Garman, Raymond L., Droz, and Gray.

Greene, Charles C., and C. V. Johnson, Yates Center, Kans. Crutch with adjustable handgrip. 2,669,244, Feb. 16.

Gregerson, Owen L., Gunnison, Utah. V-type ditching machine adjustment. 2,669,040, Feb. 16.

Gregg, Edward B., assignee: *See*—
Steiner, Philip H.

Gregory, Horace G., Sioux Falls, S. Dak. Leaf gathering and disposal machine. 2,669,078, Feb. 16.

Grenier, Joseph A. R., Montreal, Quebec, Canada. Egg carton. 2,669,380, Feb. 16.

Greulich, Karl, Frankfurt am Main, Germany, assignor to Landis & Gyr, A. G. Sensitive indicating electric meter. 2,669,215, Feb. 16.

Griffin, Bryant W., assignee: *See*—
Towns, Edward J.

Griffin, Robert H., Yonkers, N. Y. Fluid pressure treatment of skins. 2,669,111, Feb. 16.

Griffin, Robert H., Crestwood, Yonkers, assignor to Tanners' Research Corporation, New York, N. Y. Hide treating apparatus. 2,669,112, Feb. 16.

Griffith, Thomas R.: *See*—
MacGregor, Donald W., and Griffith.

Griscom-Russell Company, The, assignee: *See*—
Bruegger, Ernest.

Grobey, Paul A., assignor to Bryant Chucking Grinder Company, Springfield, Vt. Grinding wheel reciprocating mechanism. 2,669,072, Feb. 16.

Gross, Joseph E., Swissvale, Pa. Shock absorber. 2,669,449, Feb. 16.

Gruen, Wolf J., Syracuse, N. Y., assignor to General Electric Company. Balanced phase detector. 2,669,655, Feb. 16.

Gugger, Walter, Yverdon, Switzerland, assignor to Paillard S. A. Device for driving films in cinematographic projectors. 2,669,451, Feb. 16.

Guyer, Ernest, Montreal, Quebec, Canada. Glandless pump and motor unit. 2,669,187, Feb. 16.

H. & L. Tooth Company, assignee: *See*—
Launder, Ernie L.

Haeuser, Orrin A.: *See*—
Kammueller, William O., and Haeuser.

Hagan Corporation, assignee: *See*—
Williams, Ray S.

Haines, John F., Dayton, Ohio. Dynamoelectric machine with sealed rotor. 2,669,667, Feb. 16.

Haller, John, assignor to Michigan Powdered Metal Products Co., Inc., Northville, Mich. Self-aligning powdered metal bearing. 2,669,491, Feb. 16.

Halvorson, Gaylord H., E. H. Lutz, and J. F. Swensen, Duluth, Minn. Determining sulfur contents by combustion. 2,669,504, Feb. 16.

Hammaren, Nils W., Mineola, N. Y. Gas turbine power plant with exhaust gas recycling. 2,669,092, Feb. 16.

Hammerly, Herman J., Plainville, Conn., assignor, by mesne assignments, to General Electric Company. Bus duct switch. 2,669,632, Feb. 16.

Hammond, John H., Jr., and A. D. Trenor, Gloucester, Mass.; said Trenor assignor to said Hammond, Jr. Landing aid. 2,669,703, Feb. 16.

Hansen, George E., assignor to Crane Co., Chicago, Ill. Furnace valve or the like. 2,668,994, Feb. 16.

Hansen, George E., assignor to Crane Co., Chicago, Ill. Combined shutoff and relief valve. 2,669,253, Feb. 16.

Hansen, Hans E., Staten Island, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Moving stairway. 2,669,339, Feb. 16.

Happe, Reynold, Pittstown, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Needle-cooling air nozzle supporting means. 2,669,207, Feb. 16.

Hård af Segerstad, Carl G., Sandviken, Sweden. Pneumatic control and/or measuring means. 2,669,246, Feb. 16.

Harley, Earle L., Brooklyn, N. Y. Grinding machine. 2,669,074, Feb. 16.

Harms, Lewis W., Denver, Colo. Fluid control system for railroad rail sanding devices. 2,669,472, Feb. 16.

Harris, Abbott B., Downey, Calif. Portable mud ditch. 2,669,097, Feb. 16.

Harris, Edward P., and F. W. Sampson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Mold for and molding foam rubber strips and the like. 2,668,987, Feb. 16.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Diemer, Gesinus.

Hartman, Frank W., Jr., assignor to Holley Carburetor Company, Detroit, Mich. Automotive ignition contact point. 2,669,633, Feb. 16.

Haselkorn, Howard: *See*—
Annis, Richard R., Cohen, and Haselkorn.

Haskins, Robert, Richmond, Va., assignor to Flight Research, Inc. Automatic constant speed governor for engines driving variable pitch propellers. 2,669,310, Feb. 16.

Haspert, John, Tampa, Fla. Inking mechanism for cylinder printing presses. 2,669,179, Feb. 16.

Hawthorne, Nathaniel F., Alameda, Calif. Load indicating accumulator for gauges. 2,669,387, Feb. 16.

Hayes, Robert A., Franklin Park, assignor to Union Special Machine Company, Chicago, Ill. Work feeding mechanism for sewing machines. 2,669,205, Feb. 16.

Headrick, Lewis B., Lancaster, Pa., assignor to Radio Corporation of America. Four-color kinescope. 2,669,671, Feb. 16.

Hendrich, Henry A., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Record controlled perforating machine. 2,669,303, Feb. 16.

Henry, Joseph C., Jr.: *See*—
Lusky, John, Jr., Henry, and McFarland.

Hepp, Harold J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Conversion of hydrocarbons with combustion gas and finely divided catalyst. 2,669,591, Feb. 16.

Hermag Pumps Ltd., assignee: *See*—
Okulitch, George J., Zozulin, Okulitch, and Volkoff.

Hershberg, Emanuel B.: *See*—
Clayton, Temple, Hershberg, and Schoen.

Hesse, Holger, Vedbaek, Denmark. Closed mercury manometer. 2,669,125, Feb. 16.

Heuschmann, Hans, Berlin-Spandau, assignor to Siemens & Halske, Aktiengesellschaft, Munich and Berlin-Siemensstadt, Germany. Method of and means for determining deviations in the amount of frequency variation between telegraph transmitters and receivers. 2,669,604, Feb. 16.

Heyman, Albert A., assignor to The Maryland Baking Company, Baltimore, Md. Device for maintaining alignment between molds and cooperating rotating cores. 2,669,196, Feb. 16.

Hickey, John J., Belleville, N. J. Game ball mixer and dispenser. 2,669,456, Feb. 16.

Higbie Manufacturing Company, assignee: *See*—
Wood, Morris E.

Hillegass, Kenneth P.: *See*—
Chamberlain, Richard K., and Hillegass.

Hilliker, Frank T., assignor to The Fountron Corporation, St. Louis, Mo. Food service system and means therefor. 2,669,323, Feb. 16.

Hiltbrunner, Arnold J., Westwood, N. J., and C. M. Hiltbrunner, Nanuet, assignors to National Sure-Fit Quilting Company, Inc., New York, N. Y. Sewing-machine attachment for producing combined edge-binding and double-ruffled trimming. 2,669,203, Feb. 16.

Hiltbrunner, Charles M.: *See*—
Hiltbrunner, Arnold J. and C. M.

Hilton, Harold S., assignor to Fabri-Valve Company of America, Portland, Oreg. Fabricated valve with removable self-cleaning seat. 2,669,416, Feb. 16.

Hinson, James L., Winfield, assignor of twenty-five per cent to F. R. Webb, Arkansas City, Kans. Cutter for forage harvesters. 2,669,083, Feb. 16.

Hirsch, Sabine, assignor to Cargill, Incorporated, Minneapolis, Minn. Lubricant. 2,669,543, Feb. 16.

Hobbs, James C., Coral Gables, Fla. Stop-check valve. 2,669,413, Feb. 16.

Hoffman, Frederick C., North Hollywood, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Die assembly for utilizing hydrostatic pressure in a deep body of water for forming sheets. 2,669,209, Feb. 16.

Hofmann, Rudolf, Dusseldorf, Germany. Adjusting strap for trouser waists. 2,668,958, Feb. 16.

Holcroft & Company, assignee: *See*—
Holcroft, Walter H.

Holcroft, Walter H., assignor to Holcroft & Company, Detroit, Mich. Heat-treating apparatus. 2,669,445, Feb. 16.

Holley Carburetor Company, assignee: *See*—
Hartman, Frank W., Jr.

Hollins, Jesse R., Brooklyn, N. Y. Vehicle signaling circuit. 2,669,704, Feb. 16.

Holmes, Davis F., and M. R. Stork, Atlanta, Ga. Combined sash guide and weather stripping for removable windows. 2,668,990, Feb. 16.

Holstebroe, Kaye B., Gildersleeve, and L. Wimmer, Middletown, Conn., assignors, by mesne assignments, to Emhart Manufacturing Company. Bottle arranging machine. 2,669,341, Feb. 16.

Holzwarth, Hans T., Westfield, assignor to The M. W. Kellogg Company, Jersey City, N. J. Turbine structure. 2,669,420, Feb. 16.

Horn, Harry J., assignor to Motor Wheel Corporation, Lansing, Mich. Vehicle wheel cover. 2,669,487, Feb. 16.

Horwich, Theodore, assignor to General Felt Products Co., Chicago, Ill. Floor-covering cushion. 2,669,527, Feb. 16.

Hory, Albert J., Detroit, Mich. Sheet delivering apparatus. 2,669,455, Feb. 16.

Houdaille-Hershey Corporation, assignee: *See*—
De Lancey, Warren H., Pond, and Chisholm.

Houdry Process Corporation, assignee: *See*—
Shabaker, Hubert A.
Weinrich, William W.

Hoven, Alfred C., and W. E. Nordmark, assignors to American Seating Company, Grand Rapids, Mich. Cushion construction. 2,669,291, Feb. 16.

Howard, Oliver W., assignor of twenty-five per cent to W. L. Byrd, Abilene, Tex. Variable-speed control motor mount. 2,669,404, Feb. 16.

Howden, James, & Company Limited, assignee: *See*—
Ramsay, Alexander.

Howe, Frank D., Cuyahoga Falls, Ohio. Gas valve. 2,669,255, Feb. 16.

Hudson Motor Car Company, assignee: *See*—
Toncray, Millard H., and Badertscher.

Hughes Tool Company, assignee: *See*—
Dill, Herbert C., Lyne, and Schlumpf.

Hummel, Charles D., Sr., assignee: *See*—
Roberts, Ray J. D., and Faulkner.

Humphrey, George A., assignor to General Gas Light Company, Kalamazoo, Mich. Work stop or positioning means for forming and bending machines. 2,669,276, Feb. 16.

Hunsinger, Johnathon W., Burlington, Vt., assignor to Bell Aircraft Corporation, Wheatfield, N. Y. Coin controlled mechanism. 2,669,336, Feb. 16.

Hysing, Erik G., assignor to Aktiebolaget Kontrollinstrument, Stockholm, Sweden. Apparatus for producing perspective drawings. 2,669,025, Feb. 16.

Ideal Toy Corporation, assignee: *See*—
Baggott, Edmund W.

Ilford Limited, assignee: *See*—
Kendall, John D., Wood, and Welford.

Illinois Tool Works, assignee: *See*—
Stern, William.

Industrial and Financial Association Inc., assignee: *See*— Beetz, Pierre.

Inglesby, Joseph, Brooklyn, N. Y. Carburetor air cleaner and humidifier. 2,669,319, Feb. 16.

International Business Machines Corporation, assignee: *See*— Crowell, Arnold B. Hendrich, Henry A.

International Harvester Company, assignee: *See*— Raney, Russell R.

International Standard Electric Corporation, assignee: *See*— Eggers, Hans.

Irvin, Leslie L., Letchworth, and G. H. Gould, London, England, assignors to Irving Air Chute Company, Inc., Buffalo, N. Y. Parachute equipment. 2,668,997, Feb. 16.

Irving Air Chute Company, Inc., assignee: *See*— Irvin, Leslie L., and Gould.

Israel, Sidney, Brooklyn, N. Y. Flexible footwear. 2,669,036, Feb. 16.

Jackson, Charles F., Birmingham, Ala. Liquid supply system for automobiles. 2,669,251, Feb. 16.

Jackson, Averil B.: *See*— Eaton, Claude B., and Jackson.

Jackson, Hagan L., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Phase correction of asymmetric dual feed horns. 2,669,658, Feb. 16.

Jackson, Robert J., Brooklyn, assignor to Lanova Corporation, Long Island City, N. Y. Combustion chamber. 2,669,090, Feb. 16.

Jaeger, Clemens O., Milwaukee, Wis. Disposable swab for toilet bowls. 2,668,974, Feb. 16.

Jaffee, Robert I.: *See*— Finlay, Walter L., Jaffee, and Ogden.

Jaffee, Robert I., Worthington, H. R. Ogden, and D. J. Maykuth, Columbus, Ohio, assignors, by mesne assignments, to Rem-Cru Titanium, Inc., Midland, Pa. Titanium bas alloys containing aluminum and tin. 2,669,513, Feb. 16.

Jeffrey Manufacturing Company, The, assignee: *See*— Flint, James A.

Jensen, Harry T., Milford, and H. W. Bonnett, Fairfield, assignors to United Aircraft Corporation, East Hartford, Conn. Rotor balancing means and method. 2,669,120, Feb. 16.

Jewell, William R., Erie, Pa., assignor to General Electric Company. Adjustable strike. 2,669,477, Feb. 16.

Johnson, Armigene R., New York, N. Y. Blouse construction for dresses. 2,668,955, Feb. 16.

Johnson, Arthur A., assignor to Casco Products Corporation, Bridgeport, Conn. Safety device for steam irons. 2,669,643, Feb. 16.

Johnson, Clarence, Orfordville, Wis., assignor, by mesne assignments, to Rockwell Manufacturing Company, Pittsburgh, Pa. Fluid engaged clutch and brake. 2,669,333, Feb. 16.

Johnson, Clarence V.: *See*— Greene, Charles C., and Johnson.

Johnson, David W., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Selector switch with step-by-step control. 2,669,612, Feb. 16.

Johnson, Ernest H., Bridgeport, Conn., assignor to The Bullard Company. Chuck. 2,669,458, Feb. 16.

Johnson, John S., C. C. Sterrett, and J. R. Garber, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Insulated bushing. 2,669,601, Feb. 16.

Johnson Products, Inc., assignee: *See*— Bergmann, Paul F.

Johnson, Ralph E., Mountainside, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Needle-bar drive link for sewing machines. 2,669,208, Feb. 16.

Johnson, S. C., & Son, Inc., assignee: *See*— Mailander, Norman G.

Jones, Arthur B., Detroit, Mich. Trousers pressing machine. 2,669,374, Feb. 16.

Jones & Laughlin Steel Corporation, assignee: *See*— Finch, Harry J.

Joy, Richard J., Montebello, Quebec, Canada. Indexing table. 2,669,362, Feb. 16.

Just, George A., Scarsdale, N. Y., assignor to The Grand Union Company, East Paterson, N. J. Display and delivery stand. 2,669,361, Feb. 16.

Kahlerth, Charles W., East Orange, N. J. Hoisting apparatus. 2,669,363, Feb. 16.

Kairis, Peter J., Minocqua, Wis. Self-cleaning rake. 2,669,086, Feb. 16.

Kalvig, Lewis J., Hackensack, Minn. Toy log cabin. 2,669,060, Feb. 16.

Kamborian, Jacob S., West Newton, and F. Kaszynski, Wilmington, Mass., said Kaszynski assignor to said Kamborian. Toe laster. 2,668,967, Feb. 16.

Kammueller, William O., and O. A. Haueser, Fountain City, Wis. Endgate for vehicles. 2,669,368, Feb. 16.

Kanell, Theodore, West Haven, Conn., assignor, by mesne assignments, to A. Kompaniez, Los Angeles, Calif. Door lock. 2,669,474, Feb. 16.

Kaplan, Sam H., Chicago, Ill. Color image target structure. 2,669,672, Feb. 16.

Kaszynski, Frank: *See*— Kamborian, Jacob S., and Kaszynski.

Katzbeck, Walter J.: *See*— Kerr, Ralph W., and Katzbeck.

Kaufman Construction Company, assignee: *See*— Kaufman, Isaac S.

Kaufman, Isaac S., Melrose Park, assignor to Kaufman Construction Company, Philadelphia, Pa. Traveling scaffold for bridges and the like. 2,669,490, Feb. 16.

Kaupin, William B.: *See*— Dalton, John N., and Kaupin.

Keen, William R., Bowling Green, assignor to Collins & Aikman Corporation, Philadelphia, Pa. Method and apparatus for treating yarns. 2,669,001, Feb. 16.

Keirsey, Charles W., Ponca City, Okla. Brief case. 2,669,273, Feb. 16.

Kellogg, M. W., Company, The, assignee: *See*— Holzwarth, Hans T.

Kelsch, John J., Winnipeg, Manitoba, Canada. Mixing valve for water closet tanks. 2,669,391, Feb. 16.

Kendall, John D., and H. W. Wood, Ilford, and S. F. W. Welford, Knutsford, assignors to Ilford Limited, Ilford, England. Direct positive emulsions. 2,669,515, Feb. 16.

Kerr, Ralph W., Riverside, and W. J. Katzbeck, Oak Park, Ill., assignors to Corn Products Refining Company, New York, N. Y. Cold water dispersible starch sizes and making them. 2,669,523, Feb. 16.

Kerst, Donald W.: *See*— Adams, Gail D., and Kerst.

Kessler Chemical Co., Inc., assignee: *See*— Logan, Roger L.

Kessler, Frank, and W. W. Pharis, Rochester, N. Y., assignors to Stromberg-Carlson Company. Automatic toll trunking system. 2,669,606, Feb. 16.

Ketchpel Engineering Company, assignee: *See*— Ketchpel, Paul A. Ketchpel, Paul A., and Egli.

Ketchpel, Paul A., assignor to Ketchpel Engineering Company, West Englewood, N. J. Broaching machine. 2,669,164, Feb. 16.

Ketchpel, Paul A., Englewood, and H. K. Egli, New Milford, assignors to Ketchpel Engineering Company, West Englewood, N. J. Valve. 2,669,414, Feb. 16.

Ketterer, Stanley J.: *See*— Pinkvoss, Berthold P., and Ketterer.

King, Jack C.: *See*— Burdick, John S., Nevins, and King.

Kinker, Lewis F., assignor of fifty per cent to J. Tod, Burlington, Iowa. Door stop and holder. 2,669,475, Feb. 16.

Kirby, Guy M., assignee: *See*— Warren, Madden M.

Kite, Francis E., Riverside, Ill., assignor to Corn Products Refining Company, New York, N. Y. Preparation of beta-dextrose by melting and crystallizing. 2,669,530, Feb. 16.

Kivell, Wayne A., Bronxville, N. Y., and R. S. Rankin, assignors to The Dorr Company, Stamford, Conn. Clarification treatment of solids carrying liquid and apparatus therefor. 2,669,357, Feb. 16.

Kliever, Clarence B., Elk River, Minn. Delayed action attachment for printing press grippers. 2,669,180, Feb. 16.

Kling, Robert W., assignor to Athey Products Corporation, Chicago, Ill. Power operated conveyer-type loading machine. 2,669,338, Feb. 16.

Klose, Helen, administratrix: *See*— Klose, Milton E. C.

Klose, Milton E. C., deceased, Manitowoc, Wis.; H. Klose, administratrix of said M. E. C. Klose. Structural unit. 2,668,992, Feb. 16.

Klostermann, Curt W., assignor to American Phenolic Corporation, Chicago, Ill. Sealed connector. 2,669,702, Feb. 16.

Kniepkamp, Hanns P., assignee: *See*— Kniepkamp, Heinrich E.

Kniepkamp, Heinrich E., Heilbronn (Neckar), Germany, assignor to H. P. Kniepkamp, Trumansburg, N. Y. Brake. 2,669,326, Feb. 16.

Knight, Lorne F.: *See*— Pitt, Arnold, and Knight.

Knowles, William S., Kirkwood, assignor to Monsanto Chemical Company, St. Louis, Mo. Triacetoxy toluene. 2,669,578, Feb. 16.

Kobashikawa, Gary K., Honolulu, Territory of Hawaii. Spectacles adjustable glare shield mounting. 2,668,952, Feb. 16.

Koenecke, Donald F., Elizabeth, and J. F. McKay, Jr., Cranford, N. J., assignors to Standard Oil Development Company. Enamel composition having a stabilized drying rate and preparing same. 2,669,526, Feb. 16.

Koenig, William M., Webster, S. Dak. Rigid-jaw wrench having jaw-face extensions on offset shank. 2,669,147, Feb. 16.

Kompaniez, Alexandria, assignee: *See*— Kanell, Theodore.

Koppers Company, Inc., assignee: *See*— Perkins, Walter F.

Kordesch, Karl: *See*— Marko, Adolf, and Kordesch.

Krajewski, Edward P.: *See*— Asaro, Vito, and Krajewski.

Kramer Trenton Company, assignee: *See*— Malkoff, Hyman.

Kreyling, Robert L., Wynnewood, assignor to Philadelphia Quartz Company, Philadelphia, Pa. Laminated adhesive and manufacture of combined fiberboard therewith. 2,669,282, Feb. 16.

Kuhn, Clarence W., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Railway car retarder. 2,669,489, Feb. 16.

Kulig, Constantine W., assignor to Emhart Manufacturing Company, Hartford, Conn. Lehr. 2,669,070, Feb. 16.

Kuljian Corporation, The, assignee: *See*— Kuljian, Harry A.

Kuljian, Harry A., Merion, assignor to The Kuljian Corporation, Philadelphia, Pa. Means for applying treating liquid to a filament as it moves over a thread storing and advancing reel. 2,669,109, Feb. 16.

Kuljian, Harry A., Merion, Pa. Apparatus for the manufacture of synthetic thread. 2,669,346, Feb. 16.

Kummli, Jakob, Kuesnacht, near Zurich, assignor of three-fourths to A. Minder, Geneva, Switzerland, and D. J. van Aalst and L. Oberlander, Amsterdam, Netherlands. Safety pin. 2,668,996, Feb. 16.

Laboureix, Roger: *See*— De Lagrevol, Maxime, and Laboureix.

La Femina, Frank A., New York, N. Y. Gear checking device. 2,669,028, Feb. 16.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Magazine structure for self-processing film. 2,669,168, Feb. 16.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Photographic article for making a one step transfer image. 2,669,516, Feb. 16.

Landis & Gyr, A. G., assignee: *See*— Greulich, Karl.

Landry, Jacobus M., Summerland, British Columbia, Canada. Rotating stalk cutting roller. 2,669,079, Feb. 16.

Lane, Stanley C.: *See*— Catterall, William E., and Lane.

Lang, Paul W., Los Angeles, Calif., assignor to Tobey Maltz Foundation, Inc., New York, N. Y. Growing figure toy. 2,669,063, Feb. 16.

Langen, Ole H.: *See*— Maxwell, Ira C., and Langen.

Langley Alloys Limited, assignee: *See*— Richardson, William H.

Lanova Corporation, assignee: *See*— Jackson, Robert J.

Lapsley, Robert, assignor to Clark Equipment Company, Buchanan, Mich. Drive means. 2,669,132, Feb. 16.

Larsen, Bernard M., Fair Haven, N. J., assignor to United States Steel Corporation. Aspirator thermocouple mounting for measuring the temperature of hot gases. 2,669,593, Feb. 16.

Larsen, Earl I., A. S. Doty, and D. A. Williams, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electric contact material and making the same. 2,669,512, Feb. 16.

Larsen, Harry L., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Pencil. 2,669,222, Feb. 16.

Laskowski, Stanley C.: *See*— Clinton, Raymond O., and Laskowski.

Launder, Ernie L., assignor to H. & L. Tooth Company, Montebello, Calif. Resilient coupling pin. 2,669,153, Feb. 16.

Lawrence, Ernest O., Berkeley, assignor to Chromatic Television Laboratories, Inc., San Francisco, Calif. Display surface for color television tubes. 2,669,675, Feb. 16.

Lay, Bernadine F.: *See*— Lay, Kenneth S. and B. F.

Lay, Kenneth S. and B. F., St. Louis, Mo. Mailing piece. 2,669,464, Feb. 16.

Lazerus, Vernon B., Galveston, Tex. Air pump for food containers. 2,669,176, Feb. 16.

Lee, George H., Troy, N. Y. Communication system utilizing magnetic recorders. 2,669,605, Feb. 16.

Lee, Leighton, II, Rocky Hill, assignor to Niles-Bement-Pond Company, West Hartford, Conn. Control apparatus for internal-combustion engines. 2,669,093, Feb. 16.

Lee, Leighton, II, Rocky Hill, assignor to Niles-Bement-Pond Company, West Hartford, Conn. Fuel control apparatus for jet engines. 2,669,094, Feb. 16.

Leeds, Winthrop M.: *See*— MacNeill, John B., Leeds, and Baker.

Lehman, John L., St. Louis, Mo. Mousetrap. 2,669,056, Feb. 16.

Leitz, Ernst, G. m. b. H., assignee: *See*— Frischmann, Karl.

Lenz, Harry E., Sr., Dayton, Ohio. Latch for folding tables. 2,669,494, Feb. 16.

Le Roi Company, assignee: *See*— Gerst, Chris.

Levi, Roberto, New York, assignor to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y. Manufacturing tungsten articles of predetermined shape and dimensions. 2,669,008, Feb. 16.

Libby-Owens-Ford Glass Company, assignee: *See*— Rogers, Howard R.

Lichtenfels, Ira W., Harborcreek, Pa., assignor to General Electric Company. Dynamic braking system for electric motors. 2,669,685, Feb. 16.

Light, James W.: *See*— Dinsmore, Albert P., Treseder, Light, Geyer, and Whitmer.

Lightfoot, Ralph B., Stratford, assignor to United Aircraft Corporation, East Hartford, Conn. Helicopter rotor. 2,669,313, Feb. 16.

Lignes Telegraphiques & Telephoniques, assignee: *See*— Prache, Marie P.

Linck, Robert O., San Juan, P. R. Surface marking signal. 2,669,211, Feb. 16.

Lindemann, Robert E.: *See*— Strong, Walter J., and Lindemann.

Lindenbergh, Pieter C., Katwijk a/d Rijn, assignor to N. V. Leidsche Duinwater Maatshappij, Leiden, Netherlands. Apparatus for the aeration of water for purification purposes. 2,669,440, Feb. 16.

Linder, Ernest G., Princeton, N. J., assignor to Radio Corporation of America. Electron discharge device. 2,669,609, Feb. 16.

Lindstrom, Ture: *See*— MacNeill, John B., Florschutz, Lindstrom, and Tremblay.

Litman, Harry, assignee: *See*— Gilowitz, Benjamin.

Little, John W., Birmingham, Ala., assignor to Goslin-Birmingham Manufacturing Company, Inc. Adjustable filter scraper blade. 2,669,360, Feb. 16.

Liversidge, Joseph H.: *See*— Simmons, James D., Liversidge, and Wrathall.

Lockheed Aircraft Corporation, assignee: *See*— Hoffman, Frederick C.

Loewy, Erwin, assignee: *See*— Wood, Frank J.

Logan, Roger L., Elkins Park, assignor to Kessler Chemical Co., Inc., Philadelphia, Pa. Alcoholysis of lower fatty acid groups in polyhydroxy fatty esters. 2,669,572, Feb. 16.

Logemann, Warren F.: *See*— Brown, Walter V., and Logemann.

Lokken, Clark L., Jamestown, N. Dak. One-way disk tiller hitch. 2,669,172, Feb. 16.

Long, Robert S., Bound Brook, N. J., and N. P. Buckwalter, Philadelphia, Pa., assignors to American Cyanamid Company, New York, N. Y. Manufacture of p-alkoxysalicylic acids. 2,669,580, Feb. 16.

Long, W. E., Company, The, assignee: *See*— Van Poolen, Edward, and Vogel.

Louckes, Frank I., Memphis, Tenn. Mechanism for manipulating flexible revetment mats. 2,669,479, Feb. 16.

Loudon, Warren P., Tucson, Ariz., assignor to The National Cash Register Company, Dayton, Ohio. Printing mechanism. 2,669,177, Feb. 16.

Lowe, Edmund W., assignor to Purdue Research Foundation, Lafayette, Ind. Selective reduction of polynitro aromatics. 2,669,584, Feb. 16.

Lowe, Warren, Berkeley, assignor to California Research Corporation, San Francisco, Calif. Benzothiazyl sulfenamides in lubricants. 2,669,544, Feb. 16.

Lukens Steel Company, assignee: *See*— Lusky, John, Jr., Henry, and McFarland.

Lummus Cotton Gin Company, assignee: *See*— Vandergriff, Arvel L.

Lunas, Lawrence J.: *See*— Young, Douglass A., Lunas, and Walsweer.

Lund, Alvin O., Great Notch, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic landing elevator system. 2,669,324, Feb. 16.

Lundahl, Walter N., Hopkins, Minn., and R. L. Wright, North Linthicum Heights, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. X-ray thickness gauge. 2,669,662, Feb. 16.

Luppen, Peter A., Bakersfield, Calif. Recording method. 2,669,034, Feb. 16.

Lusky, John, Jr., Coatesville, J. C. Henry, Jr., Parkesburg, and A. McFarland, assignors to Lukens Steel Company, Coatesville, Pa. Fuel burner. 2,669,484, Feb. 16.

Lutz, Elmer H.: *See*— Halvorson, Gaylord H., Lutz, and Swensen.

Lyne, William H.: *See*— Dill, Herbert C., Lyne, and Schlumpf.

Maccaferri, Mario, Rye, N. Y. Chord player. 2,669,151, Feb. 16.

MacDuff, Stanley I., assignor to Bendix Aviation Corporation, South Bend, Ind. Temperature compensated force and motion transmitting system. 2,669,096, Feb. 16.

Mace, Thomas K., Birmingham, England. Vehicle brake. 2,669,328, Feb. 16.

MacFadden, Glenn E., Rocky River, assignor to John C. Virden Company, Cleveland, Ohio. Planar translucent light shade. 2,669,651, Feb. 16.

MacFarland, Charles H., assignor to The Scott & Fetzer Company, Cleveland, Ohio. Vacuum cleaner nozzle with detachable brush carrying unit. 2,668,979, Feb. 16.

Macgeorge, William D., Collegeville, assignor to Automatic Temperature Control Co., Inc., Philadelphia, Pa. Control circuit for a series wound reversible motor. 2,669,684, Feb. 16.

MacGregor, Donald W., Cornwall, Ontario, and T. R. Griffith, Ottawa, Ontario, assignors, by mesne assignments, to Howard Smith Paper Mills Limited, Montreal, Quebec, Canada. Lignin-reinforced rubber. 2,669,592, Feb. 16.

Mackie, Charles G.: *See*— Corlett, Webster D., and Mackie.

MacLean, Thomas T., assignor to Anglo-Iranian Oil Company Limited, London, England. Protective face shield. 2,668,951, Feb. 16.

MacNeill, John B., Wilkinsburg, F. E. Florschutz, Forest Hills, T. Lindstrom, Edgewood, and B. G. Tremblay, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,669,623, Feb. 16.

MacNeill, John B., and W. M. Leeds, Pittsburgh, and B. P. Baker, Turtle Creek, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,669,629, Feb. 16.

Magarinos, Joseph: *See*—
English, John P., and Magarinos.

Maggio, John B., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Limiter amplifier circuit. 2,669,654, Feb. 16.

Magna Engineering Corporation, assignee: *See*—
Edgemond, John W., Jr.

Mailander, Norman G., assignor to S. C. Johnson & Son, Inc., Racine, Wis. Water-repelling composition. 2,669,524, Feb. 16.

Maillard, Bernard, assignor to the Society "Brevets Aero Mecaniques," S. A., Geneva, Switzerland. Belt feed for firearms. 2,669,160, Feb. 16.

Major, Frederick A., St. Louis, Mo. Toy lariat. 2,669,221, Feb. 16.

Maikoff, Hyman, assignor to Kramer Trenton Company, Trenton, N. J. Evaporator construction for heat exchange systems. 2,669,099, Feb. 16.

Mallory, P. R., & Co., Inc., assignee: *See*—
Larsen, Earl I., Doty, and Williams.

Mankin, Paul A., assignor to Bowser, Inc., Fort Wayne, Ind. Liquid filter. 2,669,359, Feb. 16.

Manley, John C., Barrington, R. I., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass. Electronic signal responsive circuit having presettable count means. 2,669,390, Feb. 16.

Marko, Adolf, and K. Kordesch, Vienna, Austria, assignors to Olga Burkli née Bleuler, Zurich, Switzerland. Manufacturing porous carbon electrodes. 2,669,598, Feb. 16.

Marx, Joe J., Cincinnati, assignor to So-Lo Works, Incorporated, Loveland, Ohio. Lightweight boot having constricting tie. 2,669,035, Feb. 16.

Maryland Baking Company, The, assignee: *See*—
Heyman, Albert A.

Maschinenfabrik Heid Aktiengesellschaft, assignee: *See*—
Musil, Josef.

Mason, Jacob A.: *See*—
Stillman, Thomas B., and Mason.

Mason, Warren P., West Orange, and B. T. Matthias, Fanwood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric transducer. 2,669,666, Feb. 16.

Massey-Harris Company Limited, assignee: *See*—
Pitt, Arnold, and Knight.

Massey, Kenneth, and R. V. Patchett, Spondon, near Derby, England, assignors to British Celanese Limited. Loom shuttle. 2,669,259, Feb. 16.

Matthias, Bernd T.: *See*—
Mason, Warren P., and Matthias.

Maxwell, Ira C., and O. H. Langen, assignors, by mesne assignments, to The Unipress Company, Incorporated, Minneapolis, Minn. Rotary press. 2,669,044, Feb. 16.

Maxwell, John D., Glen Head, N. Y., assignor to Powers Chemco, Inc. Plate whirler. 2,669,216, Feb. 16.

May, Sam, assignor of one-half to R. T. Moloney, Chicago, Ill. Coin control and change apparatus. 2,669,335, Feb. 16.

Maykuth, Daniel J.: *See*—
Jaffee, Robert I., Ogden and Maykuth.

McFarland, Albert: *See*—
Lusky, John Jr., Henry, and McFarland.

McIlvried, Edwin J., Granger Township, and C. P. Gardner, Randolph, assignors to The Vaughn Machinery Company, Cuyahoga Falls, Ohio. Continuous take-up block. 2,669,347, Feb. 16.

McIntosh, Ralph O.: *See*—
Oplinger, Kirk A., and McIntosh.

McIntyre, Brouwer D., assignor to Patent Development Company, Monroe, Mich. Pump impeller. 2,669,188, Feb. 16.

McKay, Doris A., nee Milligan, Toronto, Ontario, Canada. Glider carrying and releasing device for kites. 2,669,403, Feb. 16.

McKay, John F., Jr.: *See*—
Koenecke, Donald F., and McKay.

McLane, Fletcher E., Lancaster, and B. C. Wells, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electromagnetic contactor. 2,669,620, Feb. 16.

McNeill, Oxford D., Forest Hill, Ontario, Canada, assignor to Colgate-Palmolive Company, Jersey City, N. J. Bubble blowing machine. 2,669,059, Feb. 16.

McNulty, Barron L.: *See*—
Cooper, Lowell, and McNulty.

Meacham, J. E., assignee: *See*—
Shepherdson, William L.

Meacham, Larned A., New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Triangular wave generator. 2,669,656, Feb. 16.

Mead, Homer A., Turlock, Calif. Releasing device for locking pliers. 2,669,145, Feb. 16.

Meditz, Ludwig, New York, N. Y. Invertoscope for photographic cameras. 2,669,169, Feb 16.

Menges, Lillian L., Fullerton, Calif. Electrically heated marking device. 2,669,642, Feb. 16.

Merck & Co., Inc., assignee: *See*—
Wilson, Armin G., and Tishler.

Merrill, Donald G., West Hartford, Conn., assignor to Emhart Manufacturing Company, Glassware annealing method and apparatus. 2,669,069, Feb. 16.

Merten, Bruce G.: *See*—
Gord, Howard O., Merten, and Ryant.

Mesi, Michael J., and R. G. Davis, Portland, Oreg. Boxing scoreboard. 2,669,389, Feb. 16.

Messick, Elbert C., and I. W. Wright, assignors of 10 per cent to R. A. Messick, Baytown, Tex. Camping and boat transporting trailer. 2,669,480, Feb. 16.

Messick, Richard A., assignee: *See*—
Messick, Elbert C., and Wright.

Metallgesellschaft Aktiengesellschaft, assignee: *See*—
Zimmermann, Wilhelm.

Metzgar Company, Inc., assignee: *See*—
Metzgar, Robert H.

Metzgar, Robert H., assignor to Metzgar Company, Inc., Grand Rapids, Mich. Flexible switch for roller conveyers. 2,669,334, Feb. 16.

Metzler, Charles L., Palisades Park, N. J., assignor to The Gillette Company. Blade dispensing magazine with used blade compartment. 2,669,348, Feb. 16.

Meyer, Leo J., San Antonio, Tex. Nut sheller. 2,669,268, Feb. 16.

Michigan Powdered Metal Products Co., Inc., assignee: *See*—
Haller, John.

Michigan Wire Goods Company, assignee: *See*—
Smith, Mahlon J.

Middleton, William R., Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Selective oxidation process. 2,669,586, Feb. 16.

Miessner, Benjamin F., Morristown, N. J. Antiflood fountain pen. 2,669,223, Feb. 16.

Miessner, Benjamin F., Morristown, N. J. Pen nip with spreader. 2,669,224, Feb. 16.

Miller, Richard W., assignor to The Dow Chemical Company, Midland, Mich. Plastic molding machine. 2,668,986, Feb. 16.

Miller, Carlos, Nogales, Ariz. Knife handle. 2,669,019, Feb. 16.

Miller, Carroll E., assignor to Cone Automatic Machine Company Inc., Windsor, Vt. Single spindle automatic lathe. 2,669,005, Feb. 16.

Miller, Charles B., Lynbrook, N. Y., and L. B. Smith, Woodbridge, N. J., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Production of fluorine compounds. 2,669,590, Feb. 16.

Miller, Edward, North Salem, N. Y. Handsaw with parallel blades. 2,669,267, Feb. 16.

Miller, Forest H., assignee: *See*—
Miller, Walter I.

Miller, Frank L., Zionsville, Ind., assignor to Shell Development Company, Emeryville, Calif. Reverse flow by-pass valve. 2,669,248, Feb. 16.

Miller, George E., Edgewood Arsenal, E. M. Faber, Baltimore, and A. M. Reeves, Havre de Grace, Md., assignors to the United States of America as represented by the Secretary of War. Making bis(beta chlorethyl) sulfide. 2,669,587, Feb. 16.

Miller, Louis L., Cleveland, Ohio, assignor to United States Steel Corporation. Thrust bearing for rolling mill rolls and the like. 2,669,493, Feb. 16.

Miller Manufacturing Company, Incorporated, assignee: *See*—
Goff, John W.

Miller, Reuben L., assignee: *See*—
Miller, Walter I.

Miller, Walter I., assignor of one-fourth to F. H. Miller and one-fourth to R. L. Miller, Farmdale, Ohio. Plow-type windrow turner. 2,669,085, Feb. 16.

Milligan, Doris A.: *See*—
McKay, Doris A.

Mills, Ovella D., administratrix: *See*—
Mills, Robert W.

Mills, Robert W., deceased, late of Jacksonville, Fla., by O. D. Mills, administratrix. Faced, reinforced block wall. 2,669,114, Feb. 16.

Minder, Alexander, assignee: *See*—
Kummli, Jakob.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Bishofberger, Carl J.
Riche, Arthur L.

Mollenhauer, Forrest C., Center Point, Iowa. Device for rowing a boat with one hand. 2,668,965, Feb. 16.

Moloney, Raymond T., assignee: *See*—
May, Sam.

Monarch Marking System, The, assignee: *See*—
Rieger, Frederic L.

Monsanto Chemical Company, assignee: *See*—
Darby, Joseph R.
Darby, Joseph R., and Frederickson.
Knowles, William S.
Mowry, David T., Ringwald and Wesp.
Thompson, Quentin E.

Montclair Research Corporation, assignee: *See*—
Rust, John B.

Montgomery, Morris, executor: *See*—
Gaskin, Alvin.

Moore, Jack K., Tucson, Ariz. Machine tool construction. 2,669,135, Feb. 16.

Moore, James R., Dutch Neck, N. J. Range measuring system. 2,669,711, Feb. 16.

Mork, George W., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Velocity-reducing and filtering inlet for hydraulic tanks. 2,669,254, Feb. 16.

Morrow, Walker C., Dearborn, Mich. Connector clamp. 2,668,995, Feb. 16.

Motor Wheel Corporation, assignee: *See*—
Horn, Harry J.

Mowry, David T., Kirkwood, Mo., E. L. Ringwald, Decatur, Ala., and G. L. Wesp, Englewood, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Cyano ether-esters. 2,669,558, Feb. 16.

Mueller, Fritz W. H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Furoquinoxalines and thienoquinoxalines as catalysts in dye bleach baths for color photography. 2,669,517, Feb. 16.

Mueller, Henriette, assignee: *See*—
Fröhlich, Johann.

Mulholland, Ramon A., Hammond, Ind., and B. S. Friedman, Chicago, Ill., assignors, by mesne assignments, to Sinclair Oil and Gas Company, Tulsa, Okla. Petroleum production process. 2,669,307, Feb. 16.

Mullan, Harry D., Wauwatosa, Wis. Ground gripping attachment. 2,669,274, Feb. 16.

Mullins, Edward J., Los Angeles, Calif., assignor to A. H. Bakke, Evanston, Ill. Oil well pump. 2,669,190, Feb. 16.

Munck, Leslie S.: *See*—
Salmon, Reginald D., Munck, and Turner.

Musil, Josef, assignor to Maschinenfabrik Heid Aktiengesellschaft, Vienna, Austria. Apparatus for the selection of seeds or similar material. 2,669,353, Feb. 16.

Mutaffis, Thomas D., North Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Producing phthalocyanine pigments. 2,669,569, Feb. 16.

N. V. Leidsche Duinwater Maatschappij, assignee: *See*—
Lindenbergh, Pieter C.

N. V. Mattschappij Tot Exploiteren van Octrooien en Licenties "Matepa", assignee: *See*—
Treckmann, Paul R. T.

Narajowski, Waclaw, New York, N. Y. Window cleaning mechanism. 2,668,975, Feb. 16.

National Cash Register Company, The, assignee: *See*—
Dudis, Charles G., and Denlinger.

National Cash Register Company, The, assignee: *See*—
Loudon, Warren P.
Steinhardt, David W.

National Sure-Fit Quilting Company, Inc., assignee: *See*—
Hiltbrunner, Arnold J., and C. M.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Adams, Gail D., and Kerst.
Blomquist, Alfred T., Fiedorek, and Ryan.
Nelson, Frank H.
Shapiro, Gustave.

Neal, Morris P., assignor to A-B-C Packaging Machine Corporation, Quincy, Ill. Collapsible lug container feed construction. 2,669,342, Feb. 16.

Neely, William H., assignor to The Universal Wire Spring Company, Cleveland, Ohio. Sinuous spring attaching means. 2,669,290, Feb. 16.

Neely, William H., Cleveland, and W. C. Sandor, Solon, assignors to The Universal Wire Spring Company, Bedford, Ohio. Wire spring and wire spring structure. 2,669,293, Feb. 16.

Neilsen, Peter C., Lake Elmo, Minn. Rasp loading fixture. 2,669,014, Feb. 16.

Nelson, Frank H., Oreland, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Reserve battery enclosure. 2,669,596, Feb. 16.

Nevins, Andrew B.: *See*—
Burdick, John S., Nevins, and King.

Newell, Frederick T., Bradford, Pa., assignor to Dresser Industries, Inc., Dallas, Tex. Insulating coupling. 2,669,465, Feb. 16.

Newman, Ferris E., New Haven, Ind., W. T. Pearl, Tulsa, Okla., and E. T. Rainier, Fort Wayne, Ind., assignors to United States Rubber Company, New York, N. Y. Roller skate wheel. 2,669,485, Feb. 16.

New Products Corporation, assignee: *See*—
Banker, Oscar H.

Nichols, Charles R., McAllen, Tex., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Apparatus for mud weight determination. 2,669,118, Feb. 16.

Nickle, Arthur G., assignor to Nickle Engineering, Saginaw, Mich. Hammer mill screen changing mechanism. 2,669,396, Feb. 16.

Nickle Engineering, assignee: *See*—
Nickle, Arthur G.

Niles-Bement-Pond Company, assignee: *See*—
Lee, Leighton, II.
Soule, Harold B., and Smithson.

Nordmark, Walter E.: *See*—
Hoven, Alfred C., and Nordmark.

North, Howard C.: *See*—
Yurasko, Frank H., and North.

Norton, Lowell E., Princeton Junction, N. J., assignor to Radio Corporation of America. Stabilized generator. 2,669,659, Feb. 16.

Norton, Lowell E., Princeton, N. J., assignor to Radio Corporation of America. Wide-band modulation of frequency-stabilized oscillators. 2,669,693, Feb. 16.

Nowak, Leon J., Jr., Park Ridge, Ill. Twin beam weigher. 2,669,412, Feb. 16.

Oberlander, Leopold, assignee: *See*—
Kummli, Jakob.

Obitz, Samuel A., assignor to Pittsburgh Waterproof Company, Pittsburgh, Pa. Ironing machine pad. 2,669,003, Feb. 16.

Och, Henry G.: *See*—
Boghosian, William H., Och, and Weber.

Och, Henry G., Short Hills, and D. B. Parkinson, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Plotting board. 2,669,500, Feb. 16.

O'Connor, John C., assignor to The O'Connor Patent Company, Ann Arbor, Mich. Apparatus for transmitting intense vibrations for performing work. 2,669,447, Feb. 16.

O'Connor Patent Company, The, assignee: *See*—
O'Connor, John C.

Oehler, William P., assignor to Deere & Company, Moline, Ill. Agricultural implement. 2,669,174, Feb. 16.

Ogden, Horace R.: *See*—
Finlay, Walter L., Jaffee, and Ogden.
Jaffee, Robert I., Ogden, and Maykuth.

Okulitch, George J., I. V. Zozulin, V. J. Okulitch, and G. M. Volkoff, assignors to Hermag Pumps Ltd., Vancouver, British Columbia, Canada. Magnetically driven centrifugal pump. 2,669,668, Feb. 16.

Okulitch, Vladimir, J.: *See*—
Okulitch, George J., Zozulin, Okulitch, and Volkoff.

Olah, George, assignor to Precision Developments Company Limited, London, England. Fluid-pressure operated device. 2,669,247, Feb. 16.

Olesen, Raymond C., Altadena, Calif., assignor, by mesne assignments, to Transformer Engineers. Transformer coupling network 2,669,697, Feb. 16.

Olson, Douglas J., Minneapolis, Minn. Plate provided with depending gripping means. 2,669,379, Feb. 16.

Olson, Harold T., Baldwin, assignor to Remington Rand Inc., New York, N. Y. Flow film camera. 2,669,398, Feb. 16.

Oplinger, Kirk A., Verona, and R. O. McIntosh, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switching apparatus. 2,669,631, Feb. 16.

Opsahl, Alert M., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,669,630, Feb. 16.

Ormsby, James W., New York, N. Y. Apparatus for packaging articles. 2,669,076, Feb. 16.

Orr, Marcus O., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Heat-sealed composite article and shirred product and making same. 2,669,535, Feb. 16.

Orren, Louis M. and T. M., Waco, Tex. Mechanic simulating toy with sound effect. 2,669,061, Feb. 16.

Orren, Thomas M.: *See*—
Orren, Louis M. and T. M.

Osborn, Howard E., Michigan City, Ind. Floor rack construction for refrigerator cars. 2,669,192, Feb. 16.

Osborn, Howard E., Michigan City, Ind. Floor construction for railway cars. 2,669,193, Feb. 16.

Osmun, Roy H., assignor to The Dow Chemical Company, Midland, Mich. Regenerating anion exchange resins. 2,669,713, Feb. 16.

Othmer, Donald F., Coudersport, Pa., and W. R. Smith, Crown Point, N. Y. Preparing molded products of lignocellulose and lignin. 2,669,522, Feb. 16.

Otte, Henry, Detroit, assignor to Bowen Products Corporation, Ecorse, Mich. Oil cup assembly machine. 2,669,009, Feb. 16.

Outcalt, Frederick G., New Rochelle, and E. L. Frost, Snyder, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Submerged-melt electric series-arc welding. 2,669,640, Feb. 16

Owens, James B., East McKeesport, and E. F. Beach, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switch operating mechanism. 2,669,614, Feb. 16.

Owens, James B., East McKeesport, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switch operating mechanism. 2,669,622, Feb. 16.

Owens, Jesse C., Los Angeles, Calif. Toilet flush tank trip lever construction. 2,668,961, Feb. 16.

Pacific Mills, assignee: *See*—
Dalton, John N., and Kaupin.

Paillard, S. A., assignee: *See*—
Gugger, Walter.

Pall, Francis A., San Diego, and L. A. Pfankuch, La Mesa, assignors to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Adjustable vehicle seat. 2,669,284, Feb. 16.

Panhandle Eastern Pipe Line Company, assignee: *See*—
Young, Farrile S.

Pankove, Jacques I.: *See*—
Pantchechnikoff, Jacques I.

Pantchechnikoff, Jacques I., now by change of name Jacques I. Pankove, Princeton, N. J., assignor to Radio Corporation of America. Semiconductor photoconducting device. 2,669,663, Feb. 16.

Parker, Desmond F.: *See*—
Castanoli, Alder F., and Parker.

Parker, Earl E., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Bodying catalysts for drying oils. 2,669,573, Feb. 16.

Parker, Leland C., Elmira, N. Y., assignor to Bendix Aviation Corporation. Reciprocatory electromagnetic pump. 2,669,186, Feb. 16.

Parker Rust Proof Company, assignee: *See*—
Gibson, Robert C.
Parkinson, David B. *See*—
Och, Henry G., and Parkinson.
Parsons, Herbert L., New Brunswick, N. J. Container holder. 2,669,409, Feb. 16.
Pass & Seymour, Inc., assignee: *See*—
Despard, Victor R.
Patchett, Richard V. *See*—
Massey, Kenneth, and Patchett.
Patent Development Company, assignee: *See*—
McIntyre, Brouwer D.
Pearl, William T.: *See*—
Newman, Ferris E., Pearl, and Rainier.
Pearson, Gerald L., Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Determining electrical characteristics of semiconductive bodies. 2,669,692, Feb. 16.
Pearson, William S., assignor to Clifton Conduit Company, Inc., Baltimore, Md. Apparatus for removal of excess spelter from the interior of larger sizes of conduit or the like by means of hot purging fluid. 2,669,217, Feb. 16.
Pehrsson, Sven J., assignor, by mesne assignments, to The Colson Corporation, Elyria, Ohio. Hydraulic lift jack. 2,669,423, Feb. 16.
Pellegrino, Joseph, Andover, Mass., assignor to A. W. Deller. Cooling-drying and cutting combination for macaroni machines and an improved method of making square-cut macaroni units. 2,669,195, Feb. 16.
Penrod, William R.: *See*—
Peterson, William R., and Penrod.
Perkins, Walter F., Baltimore, Md., assignor to Koppers Company Inc., Pittsburgh, Pa. Making cylindrical surfaces. 2,669,010, Feb. 16.
Perkiomen Products, assignee: *See*—
Campbell, Charles P.
Permann, Odean M., Mitchell, S. Dak. Sandbag. 2,669,272, Feb. 16.
Pernick, David, Brooklyn, N. Y. Knitting machine stop mechanism. 2,669,106, Feb. 16.
Perrin, John C., assignor to Powers-Samas Accounting Machines Limited, London, England. Photoelectric sorter for documents such as checks, etc. 2,669,354, Feb. 16.
Peterson, Adolphe C., Minneapolis, Minn. Apparatus for heating and cooling air. 2,669,100, Feb. 16.
Peterson, William R., and W. R. Penrod, Oswego, assignors to St. Regis Paper Company, New York, N. Y. Apparatus for closing paper bags. 2,669,201, Feb. 16.
Petkus, Alexander G., La Grange, assignor to Universal Oil Products Company, Chicago, Ill. Removal of spent polymerization catalyst. 2,669,531, Feb. 16.
Pfankuch, Leo A.: *See*—
Pall, Francis A., and Pfankuch.
Pfann, William G., Basking Ridge, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductive photoelectric transducer. 2,669,635, Feb. 16.
Pfeiffer, Clarence L., Ypsilanti, Mich. Window regulator for the rear quarter window of automobiles. 2,669,450, Feb. 16.
Pfuntner, Richard A., Saugus, Mass., assignor to General Electric Company. Remote indicating system. 2,669,678, Feb. 16.
Pharis, William W.: *See*—
Kessler, Frank, and Pharis.
Pharis, William W., Rochester, N. Y., assignor to Stromberg-Carlson Company. Automatic telephone system selector with message rate meter control. 2,669,607, Feb. 16.
Philadelphia Quartz Company, assignee: *See*—
Kreyling, Robert L.
Philips Laboratories, Inc., assignee: *See*—
Levi, Roberto.
Phillips, John W., Kenosha, Wis., and J. A. Roush, Evanston, Ill., assignors to Cooper's, Incorporated, Kenosha, Wis. Flaw detector for knitting machines. 2,669,107, Feb. 16.
Phillips Petroleum Company, assignee: *See*—
Hepp, Harold J.
Weber, Louis J.
Pierce, Donald A.: *See*—
Daily, Arthur M., Arisman, and Pierce.
Pignato, Gaetano, Brooklyn, N. Y. Refillable broom, brush, and the like. 2,668,972, Feb. 16.
Pinkvoss, Berthold P., Stratford, and S. J. Ketterer, Bridgeport, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J. Needle stabilizer for sewing machines. 2,669,206, Feb. 16.
Pinsky, Jules: *See*—
Bailey, James, Pinsky, and Reber.
Pitt, Arnold, Weston, Ontario, and L. F. Knight, assignors to Massey-Harris Company Limited, Toronto, Ontario, Canada. Method and apparatus for forming crankshafts. 2,669,637, Feb. 16.
Pittsburgh Plate Glass Company, assignee: *See*—
Parker, Earl E.
Pittsburgh Waterproof Company, assignee: *See*—
Obitz, Samuel A.
Pizzuti, John F., Hamtramck, Mich. Archery sight. 2,669,023, Feb. 16.
Plax Corporation, assignee: *See*—
Bailey, James, Pinsky, and Reber.
Podgursky, John, Brooklyn, N. Y. Receptacle for filing papers. 2,669,381, Feb. 16.
Poebing, Oskar, Munich, Germany. Device for removing shocks of railroad rails. 2,669,394, Feb. 16.
Polaroid Corporation, assignee: *See*—
Land, Edwin H.
Pond, Bertram P.: *See*—
De Lancey, Warren H., Pond, and Chisholm.
Poppe, George W., Brooklyn, assignor to Equitable Paper Bag Co. Inc., Long Island City, N. Y. Paper bag having flap with reinforced locking tongue and ticket retainer. 2,669,382, Feb. 16.
Power Jets (Research and Development) Limited, assignee: *See*—
Walker, Daniel N.
Powers Chemco, Inc., assignee: *See*—
Maxwell, John D.
Powers-Samas Accounting Machines Limited, assignee: *See*—
Perrin, John.
Poznik, William, Hawthorne, Calif. Protective automatic circuit breaking arrangement for automobiles. 2,669,664, Feb. 16.
Prache, Marie P., Versailles, France, assignor to Lignes Telegraphiques & Telephoniques. Transmission line with magnetic loading. 2,669,603, Feb. 16.
Precision Developments Company Limited, assignee: *See*—
Olah, George.
Preis, Paul: *See*—
Scheid, Erich M., and Preis.
Preston, George L.: *See*—
Watson, Edmund A., and Preston.
Price, Earl R., assignor to Bendix Aviation Corporation, South Bend, Ind. Power brake control. 2,669,329, Feb. 16.
Puls, Alfred E., Cleveland, Ohio, and E. R. Swenson, Metropolis, Ill., assignors to Babee-Tenda License Corporation, Cleveland, Ohio. Infant's or child's table and chair. 2,669,287, Feb. 16.
Puls, Alfred E., Cleveland, Ohio, and E. R. Swenson, assignors to Babee-Tenda License Corporation, Metropolis, Ill. Corner bracket for telescopic engagement with a table. 2,669,496 Feb 16.
Purdue Research Foundation, assignee: *See*—
Lowe, Edmund W.
Purifoy, George R., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dynamic-braking motor-protection. 2,669,679, Feb. 16.
Purifoy, George R., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Motor-control prior to dynamic braking. 2,669,681, Feb. 16.
Purvis, Joseph T., North York Township, York County, Ontario, and L. C. Secord, Toronto, Ontario, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada. Rotor blade. 2,669,383, Feb. 16.
Quayle, George F., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Warehouse type tractor with trailer coupling device. 2,669,314, Feb. 16.
Quick, Eddie J., Minneapolis, Minn. Safety device for guns. 2,669,050, Feb. 16.
Radcliff, Charles A., Ashland, Oreg. Electric shaver light attachment. 2,669,648, Feb. 16.
Radio Corporation of America, assignee: *See*—
Headrick, Lewis B.
Linder, Ernest G.
Norton, Lowell E.
Pantchechnikoff, Jacques I.
Railton, Richard S., Berkeley, Calif. Combination packaging and display unit. 2,669,350, Feb. 16.
Rainbows, Inc., assignee: *See*—
Bremer, Hermann F.
Raines, Arnold, Philadelphia, Pa. Energy absorber. 2,669,325, Feb. 16.
Rainier, Edwin T.: *See*—
Newman, Ferris E., Pearl, and Rainier.
Rampton, Lauren E., Sun Valley, assignor to Bendix Aviation Corporation, North Hollywood, Calif. Fluid-metering valve for hydraulic motor control systems. 2,669,256, Feb. 16.
Ramsay, Alexander, assignor to James Howden & Company Limited, Glasgow, Scotland. Quick closing valve with fluid pressure release mechanism. 2,669,257, Feb. 16.
Randall, David I.: *See*—
Solonen, Nicholas W., and Randall.
Raney, Russell R., La Grange, Ill., assignor to International Harvester Company. Frame construction for vehicle running gears. 2,669,461, Feb. 16.
Rankin, Renville S.: *See*—
Kivell, Wayne A., and Rankin.
Raser, William H., Jr., Binghamton, N. Y. Toothed belt for power transmission. 2,669,127, Feb. 16.
Rasmussen, Svend A., Silkeborg, Denmark. Safety fence for motor roads. 2,669,433, Feb. 16.
Rauch, Alexander, River Plaza, N. J., assignor to the United States of America as represented by the Secretary of the Army. Cup-core assembly for inductors. 2,669,700, Feb. 16.
Rausch, Edward, Baltimore, Md. Cup-shaped wrench for threaded fittings. 2,669,144, Feb. 16.
Rawles, William T., Pittsfield, Mass., assignor to General Electric Company. Sheathed electric heater insulating material. 2,669,636, Feb. 16.
Rawlings, Arthur D., Epsom, England. Cigarette or cigar. 2,669,238, Feb. 16.

Ray, William A., North Hollywood, Calif., assignor to General Controls Co. Balanced slide valve for high hydraulic pressures. 2,669,417, Feb. 16.
Reber, Clarence G.: *See*—
Bailey, James, Pinsky, and Reber.
Reconstruction Finance Corporation, assignee: *See*—
Couse, Kibbey W.
Manley, John C.
Reece, Clarence D., Duluth, assignor, by mesne assignments, to H. F. Woodward, Minneapolis, Minn. Wheeled vacuum cleaner cart. 2,668,977, Feb. 16.
Reeves, Arthur M.: *See*—
Miller, George E., Faber, and Reeves.
Reflectone Corporation, The, assignee: *See*—
Brown, Forrest W.
Reid, Allen F., Dallas, Tex. Ion exchange process for separating proteins. 2,669,559, Feb. 16.
Reigh, Clarence J.: *See*—
Fox, Joseph M., and Reigh.
Reilly, Alfred F., Taunton, Mass., assignor to Evans Case Co. Wick for lighters. 2,669,108, Feb. 16.
Reischl, Karl E., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Dumping control for scrapers. 2,669,043, Feb. 16.
Rem-Cru Titanium, Inc., assignee: *See*—
Finlay, Walter L., Jaffee, and Ogden.
Jaffee, Robert I., Ogden, and Maykuth.
Remington Rand Inc., assignee: *See*—
Olson, Harold T.
Remore, Virgil B., Cummings, Calif. Incinerator with damper controlled internal flue. 2,669,199, Feb. 16.
Reynolds, Willard S., and G. A. Gardner, Anderson, Ind.; said Reynolds assignor to said Gardner. Cleaning device for artificial dentures. 2,669,243, Feb. 16.
Rhys, Cyril O., Jr., Westfield, and W. E. Stanton, Elizabeth, N. J., assignors to Standard Oil Development Company. Contacting plate for liquid-liquid extraction tower. 2,669,505, Feb. 16.
Rial, Wayne S., Batavia, N. Y. Dual channel receiver. 2,669,712, Feb. 16.
Richardson, William H., Datchet, assignor to Langley Alloys Limited, Langley, England. Production of alloys. 2,669,534, Feb. 16.
Riche, Arthur L., Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Safety control for motor operated machines. 2,669,686, Feb. 16.
Riddiford, Milton, and R. Goldstein, assignors to A. R. F. Products, Inc., River Forest, Ill. Apparatus for treating water. 2,669,661, Feb. 16.
Ridgway, Edmund T., Oaklyn, N. J., assignor to The Budd Company, Philadelphia, Pa. Door suspension, especially for trucks and trailers. 2,668,982, Feb. 16.
Rieger, Frederic L., assignor to The Monarch Marking System, Dayton, Ohio. Marking tag strip for price marking produce. 2,669,047, Feb. 16.
Ries, Lewis B., Monessen, Pa. Level. 2,669,029, Feb. 16.
Riley Stoker Corporation, assignee: *See*—
Rogers, Wayne C.
Ringwald, Eugene L.: *See*—
Mowry, David T., Ringwald, and Wesp.
Rink, Robert M., assignor to The Goshen Manufacturing Company, Inc., Goshen, Ind. Swing. 2,669,286, Feb. 16.
Roach, Benjamin F., Denver, Colo. Fuel line and the like and means for heating the same. 2,669,299, Feb. 16.
Roach, Charles J.: *See*—
Bohaboy, Edward J., and Roach.
Roberts, John A., Lynn, Mass., assignor to General Electric Company. Vacuum gauge. 2,669,124, Feb. 16.
Roberts, Ray J. D., and A. H. Faulkner, Chicago, Ill., assignors to C. D. Hummel Sr., New York, N. Y. Thermostatic switch. 2,669,625, Feb. 16.
Rockwell Manufacturing Company, assignee: *See*—
Cloete, Floris.
Johnson, Clarence.
Roe, A. V., Canada Limited, assignee: *See*—
Frampton, Arthur G.
Purvis, Joseph T., and Secord.
Rogers, Howard R., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Rearview mirror assembly. 2,669,159, Feb. 16.
Rogers, Wayne C., assignor to Riley Stoker Corporation, Worcester, Mass. Rotor assembly apparatus. 2,669,470, Feb. 16.
Rohm & Haas Company, assignee: *See*—
Urban, Richard S.
Romair, Incorporated, assignee: *See*—
Schwanger, Orville H. and R. M.
Ronstadt, Ruth M., Tucson, Ariz. Ear ornament. 2,669,102, Feb. 16.
Roselle, Donald A., Racine, Wis. Baby bottle holder. 2,669,407, Feb. 16.
Rosenberg, Isadore B., Port Chester, assignor of one-half to P. D. Arnold, Rye, N. Y. Machine for reslicing bread. 2,669,270, Feb. 16.
Ross, Walter P., assignee: *See*—
Campbell, Rex H.
Roush, John A.: *See*—
Phillips, John W., and Roush.
Rowe, Raymond N., Plainville, Conn., assignor, by mesne assignments, to General Electric Company. Electric circuit breaker. 2,669,626, Feb. 16.
Royall, Ivey G., Jr., St. Marys, Ohio, assignor, by mesne assignments, to The Goodyear Tire & Rubber Company. Rubber stopper. 2,669,370, Feb. 16.
Ruben, Samuel, New Rochelle, N. Y. Electric current producing cell with tin anode. 2,669,597, Feb. 16.
Ruberoid Co., The, assignee: *See*—
Smith, Charles C.
Ruskin, Simon L., New York, N. Y. Bismuth salt of penicillin. 2,669,563, Feb. 16.
Rust, John B., Verona, assignor of one-half to Montclair Research Corporation, Montclair, N. J., and one-half to Ellis-Foster Company. Deacetylated chitin shrink-proofing of wool and product. 2,669,529, Feb. 16.
Ryan, James F., Jr.: *See*—
Blomquist, Alfred T., Fiedorek, and Ryan.
Ryant, Charles J., Jr.: *See*—
Gord, Howard O., Merten, and Ryant.
St. Clair, Theodore A., assignor to The Weatherhead Company, Cleveland, Ohio. Flat characteristic regulator. 2,669,071, Feb. 16.
St. Regis Paper Company, assignee: *See*—
Peterson, William R., and Penrod.
Sajatovich, Thomas S., Cleveland, Ohio. Conicgraph. 2,669,022, Feb. 16.
Salisbury, Winfield W., assignor to Collins Radio Company, Cedar Rapids, Iowa. Cyclotron tuning apparatus. 2,669,653, Feb. 16.
Salmon, Reginald D., L. S. Munck, and F. J. L. Turner, assignors to Creed and Company Limited, Croydon, England. Printing telegraph apparatus. 2,669,602, Feb. 16.
Sampson, Frederick W.: *See*—
Harris, Edward P., and Sampson.
Sandkaulen, Hans M., Solingen-Merscheid, Germany. Setting device. 2,669,163, Feb. 16.
Sandor, William C.: *See*—
Neely, William H., and Sandor.
Sargeson, John, Long Branch, Ontario, Canada. Artificial hand. 2,668,959, Feb. 16
Sauder, John D., Oyster Point, Pa. Power-actuated boeing equipment. 2,669,170, Feb. 16.
Scalera, Mario, Somerville, and S. M. Tsang, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Manufacture of resorcylic acid. 2,669,581, Feb. 16.
Scarborough, Frederick, Sr., Northampton, Mass. Yarn carrier and tube for knitting machines. 2,669,103, Feb. 16.
Schaffel, Gerson S., Cuyahoga Falls, and K. V. Weinstock, assignors to The General Tire and Rubber Company, Akron, Ohio. Copolymer of a diolefine and a ketone. 2,669,553, Feb. 16
Schanz, Arthur C., Glen Ridge, N. J., assignor to American Car and Foundry Company, New York, N. Y. Progressively welding railroad car side walls. 2,669,015, Feb. 16.
Scheid, Erich M., Wuppertal-Barmen, and P. Preis, Wuppertal-Elberfeld, Germany. Centrifugal switch. 2,669,619, Feb. 16.
Schering Corporation, assignee: *See*—
Clayton, Temple, Hershberg, and Schoen.
Schilling, Nathan F., Brooklyn, N. Y. Dress display form. 2,669,375, Feb. 16
Schjolin, Hans O., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Remote-control system for gear shifting in angularly disposed vehicle transmissions. 2,669,316, Feb. 16.
Schleicher, Paul E., assignor of one-half to S. Cohen, Gary, Ind. Heating system. 2,669,393, Feb. 16.
Schlumberger Well Surveying Corporation, assignee: *See*—
Doll, Henri-Georges.
Schlumpf, Robert W.: *See*—
Dill, Herbert C., Lyne, and Schlumpf.
Schnelzer, Albert, Koln-Mulheim, and O. Bayer, Leverkusen-Bayerwerk, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany. Copper complex compounds of monoazo dyestuffs. 2,669,561, Feb. 16.
Schmidlin, Albertus E., Caldwell, assignor to Specialties Development Corporation, Belleville, N. J. Compressor system and moisture separator therefor. 2,669,321, Feb. 16.
Schmidt, Albert S., Harrisburg, Pa. Rotary disk slicer for slicing a plurality of rows of buns. 2,669,269, Feb. 16.
Schmidt, George H., Milwaukee, Wis. Trouser support. 2,668,957, Feb. 16.
Schmitt, Karl, Fulda, Germany. Endless slide chain picture projector. 2,669,157, Feb. 16.
Schneider, Frank H., assignor to Florence Stove Company, Gardner, Mass. Auxiliary broiling unit for ranges. 2,669,645, Feb. 16.
Schnizer, Arthur W., Corpus Christi, Tex., assignor to Celanese Corporation of America, New York, N. Y. Production of N-vinyl pyrrolidone. 2,669,570, Feb. 16.
Schoen, Bernard F.: *See*—
Clayton, Temple, Hershberg, and Schoen.
Schroeder, John L., Watertown, Wis. Feed trough for hogs and the like. 2,669,219, Feb. 16.
Schulz, Eugene, Sr., Merrill, Wis. Fur pelt drier and stretcher. 2,669,057, Feb. 16.
Schutte, August H., Hastings on Hudson, N. Y. Gas turbine rotor cooling. 2,669,091, Feb. 16.
Schwanger, Orville H., Elizabethtown, and R. M. Schwanger, New Cumberland, assignors to Romair, Incorporated, Lancaster, Pa. Poultry house heating system. 2,669,392, Feb. 16.

Schwanger, Robert M.: *See*—
Schwanger, Orville H. and R. M.
Scott & Fetzer Company, The, assignee: *See*—
MacFarland, Charles H.
Scott & Williams, Incorporated, assignee: *See*—
Belford, Alexander.
Seaplant Chemical Corporation, assignee: *See*—
Baker, George L.
Searle, G. D., & Co., assignee: *See*—
Cusic, John W.
Secord, Lloyd C.: *See*—
Purvis, Joseph T., and Secord.
Seemann, William A., Piedra, Calif. Form and holding means therefor. 2,669,000, Feb. 16.
Segsworth, Robert S., assignor to The General Engineering Company (Canada) Limited, Toronto, Ontario, Canada. Dual frequency induction heating apparatus. 2,669,647, Feb. 16.
Seko, Kaichi, assignor of one-fourth to M. Tsubota, Seattle, Wash. Razor head. 2,669,017, Feb. 16.
Selas Corporation of America, assignee: *See*—
Blaha, Emil.
Sellers, Frederick B., assignor to Texaco Development Corporation, New York, N. Y. Gasifying carbonaceous solids. 2,669,509, Feb. 16.
Sessions Clock Company, The, assignee: *See*—
Bradley, Caton.
Severance, Joe, Grangeville, assignor of one-half to R. C. Chattin, Boise, Idaho. Cultivating row crops. 2,669,067, Feb. 16.
Severance, Joe, Eden, assignor of one-half to R. C. Chattin, Boise, Idaho. Rotary cultivator. 2,669,173, Feb. 16.
Sewell, Donald B.: *See*—
Gester, George C., Jr., and Sewell.
Seymour, Raymond B., Emmaus, and R. P. Desch, Allentown, assignors to The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Acid-catalyzed furfuryl alcohol resin bonding material. 2,669,552, Feb. 16.
Shabaker, Hubert A., Media, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Gel powder preparation. 2,669,547, Feb. 16.
Shapiro, Gustave, Washington, D. C., assignor to the United States of America as represented by the Secretary of the Navy. Multipoint temperature compensation for tuners. 2,669,699, Feb. 16.
Shaw, Paul B., Iowa City, Iowa. Water separator and filter for air pressure lines. 2,669,320, Feb. 16.
Shaw-Walker Company, The, assignee: *See*—
Burdick, John S., Nevins, and King.
Shell Development Company, assignee: *See*—
Deming, Philip H., and Dannenberg.
Miller, Frank L.
Shell, Julius P., Detroit, Mich., assignor to Douglas Tool Company. Flywheel. 2,669,130, Feb. 16.
Shepherdson, William L., assignor of sixty-six and two-thirds per cent to J. E. Meacham, Phoenix, Ariz. Knockdown chair. 2,669,295, Feb. 16.
Sherman, Rallston M., Glastonbury, assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn. Combustion method and apparatus. 2,669,297, Feb. 16.
Sherman, Rallston M., Glastonbury, assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn. Apparatus for generating and delivering hot gaseous products. 2,669,443, Feb. 16.
Sherr, Rubby, Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Aircraft velocity indicating pulse echo system. 2,669,710, Feb. 16.
Shields, James T., Inwood, N. Y. Device for heating and cooling vehicles. 2,669,101, Feb. 16.
Shields, Robert A., Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y. Drop bottom car. 2,669,191, Feb. 16.
Shklar, Paul, Albany, N. Y. Musical instrument. 2,669,150, Feb. 16.
Shomo, Robert D., Detroit, Mich. Adjustable ruling pen. 2,669,225, Feb. 16.
Shuman, Davis, Brooklyn, N. Y. Trombone. 2,669,152, Feb. 16.
Siemens & Halske, Aktiengesellschaft, assignee: *See*—
Heuschmann, Hans.
Siemens - Schuckertwerke Aktiengesellschaft, assignee: *See*—
Duffing, Paul.
Sievers, Ernest J., Newell, Iowa. Unloading mechanism for motor vehicles. 2,669,366, Feb. 16.
Silent Glow Oil Burner Corporation, The, assignee: *See*—
Sherman, Rallston M.
Silsby, Christopher C., Jr., Euclid, assignor to Diamond Alkali Company, Cleveland, Ohio. Liquid level indicator. 2,669,122, Feb. 16.
Silver, Edward C., Los Angeles, Calif. Pocket dispenser. 2,669,349, Feb. 16.
Silver, Walter H., and J. I. Cantral, assignors to Deere & Company, Moline, Ill. Disk tiller. 2,669,171, Feb. 16.
Silvius, Walter P., Murraysville, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical control switch. 2,669,611, Feb. 16.
Simmons, Bert F., Medford, Oreg. Headrest mechanism for creepers. 2,668,964, Feb. 16.
Simmons, Ernest P., Kansas City, Kans. Sight rib for shotguns. 2,669,052, Feb. 16.
Simmons, James D., and J. H. Liversidge, Sheffield, and R. W. Wrathall, Chertsey, England, assignors to General Electric Company. Electrical control arrangement. 2,669,126, Feb. 16.
Sinclair Oil and Gas Company, assignee: *See*—
Mulholland, Ramon A., and Friedman.
Teter, John W., and Friedman.
Singer Manufacturing Company, The, assignee: *See*—
Enos, John P.
Happe, Reynold.
Johnson, Ralph E.
Pinkvoss, Berthold P., and Ketterer.
Sjostrom, Robert L., Lawrence, Mass. Multiple lane air doffer. 2,669,340, Feb. 16.
Skil Corporation, assignee: *See*—
Wilson, Harry R.
Sletten, Vernon O., and C. C. Bowman, Havre, Mont. Indicator for pneumatic tires. 2,669,617, Feb. 16.
Smith, Carl K., Corpus Christi, Tex. Apparatus for preparing and applying plastic coating material. 2,669,436, Feb. 16.
Smith, Charles C., Mobile, Ala., assignor to The Ruberold Co., New York, N. Y. Making asbestos-cement sheets. 2,669,166, Feb. 16.
Smith, Edward J., Clifton, N. J. Magnetic trouble lamp assembly. 2,669,650, Feb. 16.
Smith, Garland B., Madison, Wis. Artificial Christmas tree. 2,669,049, Feb. 16.
Smith, Howard, Paper Mills Limited, assignee: *See*—
MacGregor, Donald W., and Griffith.
Smith, James L., Charlotte, N. C. Work return mechanism for rip saws. 2,669,263, Feb. 16.
Smith, Lee B.: *See*—
Miller, Charles B., and Smith.
Smith, Mahlon J., assignor to Michigan Wire Goods Company, Niles, Mich. Kitchen or camp implements. 2,669,018, Feb. 16.
Smith, Roy A., New York, N. Y., assignor, by mesne assignments, to Feathercombs, Inc. Flexible hair retainer. 2,669,239, Feb. 16.
Smith, Samuel, Elmdon, England. Rotary swaging or forging machines. 2,669,137, Feb. 16.
Smith, Warren R.: *See*—
Othmer, Donald F., and Smith.
Smith, William T., Sr., Hialeah, Fla. Fishing line float. 2,669,054, Feb. 16.
Smithson, Gordon W.: *See*—
Soule, Harold B., and Smithson.
Smoot, John H., Darien, Conn., assignor to Becton Dickinson and Company, Rutherford, N. J. Injection apparatus. 2,669,230, Feb. 16.
Snow, Barton S., Chicago, Ill., assignor to T. W. Snow Construction Company, Inc. Granular material handling device. 2,669,488, Feb. 16.
Snow, Gerald A., Uxbridge, Mass., and H. H. Trebes, Windover Hills, Pa., assignors to Whitin Machine Works, Whitinsville, Mass. Bobbin replenishing mechanism for winding machines. 2,669,397, Feb. 16.
Snow, T. W., Construction Company, Inc., assignee: *See*—
Snow, Barton S.
Snyder, James E.: *See*—
Carson, Clarence M., and Snyder.
Societe Anonyme dite: Societe Nouvelle de Construction de Machines-Outils et d'Outillage Procedes C. W. B., assignee: *See*—
Berthiez, Charles W.
Society "Brevets Aero Mecaniques," S. A., assignee: *See*—
Maillard, Bernard.
Society "Brevets Aero-Mecaniques," S. A., assignee: *See*—
Weiss, Willi.
Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Glammaria, John J.
Middleton, William R.
Solonen, Nicholas W., and D. I. Randall, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Dialkyl-α,α'-dicyano-2,5-dialkoxy-p-benzenediacrylates. 2,669,575, Feb. 16.
So-Lo Works, Incorporated, assignee: *See*—
Marx, Joe J.
Soule, Harold B., Barrington, and G. W. Smithson, Pawtucket, R. I., assignors to Niles-Bement-Pond Company, West Hartford, Conn. Indexing mechanism for turret lathes. 2,669,006, Feb. 16.
Sowter, Anthony B., Ickenham, assignor to The General Electric Company Limited, London, England. Device for cold pressure welding wires and the like. 2,669,138, Feb. 16.
Spaulding, Harold K., Hohokus, N. J., assignor to Curtiss-Wright Corporation. Electric impulse generator. 2,669,669, Feb. 16.
Specialties Development Corporation, assignee: *See*—
Schmidlin, Albertus E.
Spector, Charles J., Los Angeles, Calif. Combination strainer and stopper. 2,668,962, Feb. 16.
Sperati, Carleton A., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparing bis-(amino aryl) methane polyamides. 2,669,556, Feb. 16.
Sperry, Elmer H., Drexel Hill, assignor to Sun Oil Company, Philadelphia, Pa. Sulfuration of mineral oil. 2,669,560, Feb. 16.
Sperry-Sun Well Surveying Company, assignee: *See*—
Nichols, Charles R.

Spitz, Isidor, assignor to American-National Bag & Burlap Co., Inc., Brooklyn, N. Y. Composite packaging or wrapping material and manufacture thereof. 2,669,258, Feb. 16.
Stacy, Maurice W.: *See*—
Bransky, David W., Bolt, Stacy, and Feller.
Stahl, William L.: *See*—
Vogeley, Clyde E., Jr., and Stahl.
Stallcup, Etta, executrix: *See*—
Wightman, Lynn.
Standard Oil Company, assignee: *See*—
Bransky, David W., Bolt, Stacy, and Feller.
Cord, Howard O., Merten, and Ryant.
Standard Oil Development Company, assignee: *See*—
Badger, Algernon S.
Catterall, William E.
Catterall, William E., and Lane.
Koenecke, Donald F., and McKay.
Rhys, Cyril O., Jr., and Stanton.
Young, David W.
Yurasko, Frank H., and North.
Standard Screw Company, assignee: *See*—
Corlett, Webster D., and Mackie.
Stanley Home Products, Inc., assignee: *See*—
Bagley, John F., Jr.
Stanton, William E.: *See*—
Rhys, Cyril O., Jr., and Stanton.
Steel Products Engineering Company, The, assignee: *See*—
Brehm, Charles M.
Steiner, Philip H., assignor of one-third to E. B. Gregg, San Francisco, Calif. Worm gearing. 2,669,128, Feb. 16.
Steinhardt, David W., assignor to The National Cash Register Company, Dayton, Ohio. Restoring used color-reactant record material for reuse. 2,669,503, Feb. 16.
Stelzer, Alphonse C., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Increasing the inductance of a loop antenna. 2,669,528, Feb. 16.
Sterling Drug Inc., assignee: *See*—
Clinton, Raymond O., and Laskowski.
Stern, William, Park Ridge, assignor to Illinois Tool Works, Chicago, Ill. Slotting saw. 2,669,007, Feb. 16.
Sterrett, Charles C.: *See*—
Johnson, John S., Sterrett, and Garber.
Stevens, Whitney W., Kamloops, British Columbia, Canada. Multiple saw equipment for traveling-saw sawmills. 2,669,262, Feb. 16.
Stevenson, Evan H., Fergus, Ontario, Canada. Clothes ironing machine. 2,669,046, Feb. 16.
Stewart, Henry P., New York, N. Y. Animated doll. 2,669,064, Feb. 16.
Stewart, Wilson M., Ottawa, Ontario, Canada. Coin hopper. 2,669,337, Feb. 16.
Stillman, Eloise B., executrix: *See*—
Stillman, Thomas B., and Mason.
Stillman, Thomas B., deceased (E. B. Stillman, executrix), South Orange, and J. A. Mason, Maplewood, N. J. Burner throat with air inlet annulus defined by internally bladed cone. 2,669,296, Feb. 16.
Stork, Minnie R.: *See*—
Holmes, Davis F., and Stork.
Straight, David M.: *See*—
Gold, Harold, and Straight.
Straubel, Clarence W., assignor to The General Fireproofing Company, Youngstown, Ohio. Divider means for filing drawers. 2,669,236, Feb. 16.
Straubel, Clarence W., Loganbrooke, assignor to The General Fireproofing Company, Youngstown, Ohio. Control means for divider plates of filing drawers. 2,669,237, Feb. 16.
Straumann, Reinhard, Waldenburg, Switzerland. Anchor escapement. 2,669,089, Feb. 16.
Stromberg-Carlson Company, assignee: *See*—
Kessler, Frank, and Pharis.
Pharis, William W.
Strong, Walter J., Cuyahoga Falls, and R. E. Lindemann, Leroy, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for removing curing bags from tires. 2,668,983, Feb. 16.
Sun Oil Company, assignee: *See*—
Sperry, Elmer H.
Sutherland Paper Company, assignee: *See*—
Behl, John D.
Svenska Aktiebolaget Gasaccumulator, assignee: *See*—
Aversten, Karl J.
Swank, Clayton J., Greenville, Miss. Drag scoop for handling riprap. 2,669,042, Feb. 16.
Swayze, Harry E.: *See*—
Easley, John A., Eden, and Swayze.
Swensen, John F.: *See*—
Halvorson, Gaylord H., Lutz, and Swensen.
Swenson, Edward R.: *See*—
Puls, Alfred E., and Swenson.
Swim, Harold N., Jr., Des Moines, assignor to Deere Manufacturing Co., Dubuque, Iowa. Cotton picker drum assembly. 2,669,080, Feb. 16.
Swisher, Thomas H., Elmhurst, Ill., assignor to General Electric Company. Kitchen waste disposal apparatus with reversing means. 2,669,395, Feb. 16.
Tallis, Charles E., Handsworth, Birmingham, assignor to Birmingham Tool & Gauge Company Limited, Handsworth, England. Hydraulic impeller or pump. 2,669,185, Feb. 16.
Tanners' Research Corporation, assignee: *See*—
Griffin, Robert H.
Taphoureau, Fernand L., Cannes, France. Floor unit. 2,668,991, Feb. 16.
Teter, John W., and B. S. Friedman, Chicago, Ill., assignors, by mesne assignments, to Sinclair Oil and Gas Company, Tulsa, Okla. Petroleum production process. 2,669,306, Feb. 16.
Texaco Development Corporation, assignee: *See*—
Sellers, Frederick B.
Thomas & Betts Co., The, assignee: *See*—
Bergan, Martin D.
Thomas Hydraulic Speed Controls, Inc., assignee: *See*—
Gasche, Scott H.
Thomas, Sherman A., Rochester, N. Y. Feeding tube for butter serving machines. 2,669,020, Feb. 16.
Thompson, Quentin E., assignor to Monsanto Chemical Company, St. Louis, Mo. Esters of organic carboxylic acids. 2,669,566, Feb. 16.
Thompson, Quentin E., assignor to Monsanto Chemical Company, St. Louis, Mo. Substituted benzoyl halides. 2,669,567, Feb. 16.
Thompson, Quentin E., assignor to Monsanto Chemical Company, St. Louis, Mo. Substituted benzoic acids, their salts and esters. 2,669,568, Feb. 16.
Thompson, Quentin E., assignor to Monsanto Chemical Company, St. Louis, Mo. Esters of organic sulfonic acids. 2,669,574, Feb. 16.
Thompson, Robert E., Cos Cob, Conn., assignor to Armour and Company, Chicago, Ill. Adrenocorticotrophin-gelatin preparation. 2,669,537, Feb. 16.
Thomson, Alan C., Manhattan Beach, Calif. Control system for coaxial helicopter blades. 2,669,308, Feb. 16.
Thorson, Milton Z., Knight Township, Vanderburgh County, Ind. Dish cleaning sink. 2,669,240, Feb. 16.
Tideman, Emil S.: *See*—
Fenton, George D., and Tideman.
Tinley, Ernest L., Lower Penn, near Wolverhampton, and F. A. Driver, Penn Wolverhampton, assignors to Joshua Bigwood and Son Limited, Wolverhampton, England. Solid fuel combustion apparatus. 2,669,200, Feb. 16.
Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Separable fastener. 2,668,998, Feb. 16.
Tinnerman Products, Inc., assignee: *See*—
Tinnerman, George A.
Tishler, Max: *See*—
Wilson, Armin G., and Tishler.
Tobey Maltz Foundation, Inc., assignee: *See*—
Lang, Paul W.
Tod, John, assignee: *See*—
Kinker, Lewis F.
Tofanelli, Ellen H., Mill Valley, Calif. Foundation garment. 2,668,953, Feb. 16.
Toledo Scale Company, assignee: *See*—
Williams, Lawrence S.
Toncray, Millard H., and D. K. Badertscher, Grosse Pointe Park, assignors to Hudson Motor Car Company, Detroit, Mich. Motor vehicle frame structure. 2,669,462, Feb. 16.
Toombs, Harry B., New York, N. Y. Mop having triangular compressible cleaning element. 2,668,969, Feb. 16.
Torr, David, New York, N. Y., assignor to C. J. Ely, Oakland, N. J. Treating whole eggs. 2,669,518, Feb. 16.
Torre, Pier L., Milan, Italy. Resilient suspension system for motorcycle wheels. 2,669,463, Feb. 16.
Toske, Arthur C., Jacksonville, Fla. Ring ridge reamer. 2,669,134, Feb. 16.
Towns, Edward J., White Plains, N. Y., assignor of one-tenth to B. W. Griffin, Summit, N. J. Bottle cap. 2,669,369, Feb. 16.
Transformer Engineers, assignee: *See*—
Olesen, Raymond C.
Trebes, Harold H.: *See*—
Snow, Gerald A., and Trebes.
Treckmann, Paul R. T., Rodau Uber Bensheim a. d. Bergstrasse, Germany, assignor to N. V. Maatschappij Tot Exploiteren van Octrooien en Licenties "Matepa", 's-Hertogenbosch, Netherlands. Centrifugal blower and cutter for comminuting and conveying fodder. 2,669,271, Feb. 16.
Tremblay, Bernard G.: *See*—
MacNeill, John B., Florschutz, Lindstrom, and Tremblay.
Trenor, Albert D.: *See*—
Hammond, John H., Jr., and Trenor.
Trent Tube Company, assignee: *See*—
Bowman, Howard J.
Treseder, Robert C.: *See*—
Dinsmore, Albert P., Treseder, Light, Geyer, and Whitmer.
Tri-State Engineering Company, assignee: *See*—
Colt, Burton C., Jr.
Trumbo, Benjamin F., Uniontown, Ky. Gate latch. 2,669,473, Feb. 16.
Tsang, Sien M.: *See*—
Scalera, Mario, and Tsang.
Tsubota, Min, assignee: *See*—
Seko, Kaichi.
Turk, Robert, Gars am Kamp, Austria. Journal bearing, in particular for axles of rolling stock. 2,669,492, Feb. 16.

Turner, Frederick J. L.: *See*—
Salmon, Reginald D., Munck, and Turner.
Ulm, Reign C.: *See*—
Allen, Marvin K., and Ulm.
Ulm, Reign C., assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind. Floating roof. 2,669,371, Feb. 16.
Union Carbide and Carbon Corporation, assignee: *See*—
Outcalt, Frederick G., and Frost.
Union Special Machine Company, assignee: *See*—
Hayes, Robert A.
Unipress Company, Incorporated, The, assignee: *See*—
Maxwell, Ira C., and Langen.
United Aircraft Corporation, assignee: *See*—
Jensen, Harry T., and Bonnett.
Lightfoot, Ralph B.
United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Godbold, Nat H.
United States Rubber Company, assignee: *See*—
Dodge, Ernest B.
Newman, Ferris E., Pearl, and Rainier.
United States Steel Corporation, assignee: *See*—
Archibald, Frederick R.
Chase, Charles R., and Bliss.
Larsen, Bernard M.
Miller, Louis L.
Universal Oil Products Company, assignee: *See*—
Petkus, Alexander G.
Universal Wire Spring Company, The, assignee: *See*—
Neely, William H.
Neely, William H., and Sandor.
Urban, Richard S., assignor to Rohm & Haas Company, Philadelphia, Pa. Prepaartion of diacyloxydecadienes. 2,669,579, Feb. 16.
Urscheler, Emil, Dietikon, Switzerland. Sewing machine with zigzag attachment. 2,669,204, Feb. 16.
Usher, James F.: *See*—
Usher, John A., J. R., and J. F.
Usher, John A., J. R., and J. F. Chicago, Ill. Folding chair. 2,669,289, Feb. 16.
Usher, John R.: *See*—
Usher, John A., J. R., and J. F.
Utility Appliance Corp., assignee: *See*—
Breslow, Ben B.
Van Aalst, Dick J., assignee: *See*—
Kumnli, Jakob.
Vandergriff, Arvel L., Columbus, Ga., assignor to Lummus Cotton Gin Company. Cotton hull extractor and cleaner. 2,668,989, Feb. 16.
Vanderplank, Hugh, Cardiff, Wales. Door mounting for structures, including cupboards. 2,669,499, Feb. 16.
Van Duzer, Tusten, Warwick, N. Y. Gutter strainer. 2,669,197, Feb. 16.
Van Poolen, Edward, Cicero, and L. G. Vogel, Evanston, Ill., assignors to The W. E. Long Company. Machine for putting lids on pullman bread pans. 2,669,377, Feb. 16.
Van Sickle, Roswell C., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Liquid break circuit interrupter. 2,669,628, Feb. 16.
Vaughan, Thomas H., Hampton, S. C., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Urea-formaldehyde resin and making same. 2,669,551, Feb. 16.
Vaughn Machinery Company, The, assignee: *See*—
McIlvried, Edwin J., and Gardner.
Vezina, Joseph A.: *See*—
Foisy, Richard, and Vezina.
Virden, John C., Company, assignee: *See*—
MacFadden, Glenn E.
Vogel, Leo G.: *See*—
Van Poolen, Edward, and Vogel.
Vogeley, Clyde E., Jr., Pittsburgh, Pa., and W. L. Stahl, Ypsilanti, Mich., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Modulator. 2,669,694, Feb. 16.
Volkoff, George M.: *See*—
Okulitch, George J., Zozulin, Okulitch, and Volkoff.
Wachsman, David: *See*—
Wachsman, Jacob and D.
Wachsman, Jacob and D., Brooklyn, N. Y.; said J. Wachsman assignor to D. Wachsman. Stop motion for knitting machines. 2,669,105, Feb. 16.
Waite, William A., Saunderstown, R. I. Furnace wall construction. 2,669,115, Feb. 16.
Walker, Daniel N., Ashby Parva, near Rugby, assignor to Power Jets (Research and Development) Limited, London, England. Control device. 2,669,245, Feb. 16.
Wallner, Rudolph, Sheboygan, Wis. Child's stroller. 2,669,460, Feb. 16.
Walmsley, Leslie L., Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del. Dyeing and presetting tricot fabrics. 2,669,502, Feb. 16.
Walsweer, John: *See*—
Young, Douglass A., Lunas, and Walsweer.
Wambreuze, Ovide, Brussels, Belgium. Furnace for annealing glass. 2,669,068, Feb. 16.
War, United States of America as represented by the Secretary of, assignee: *See*—
Miller, George E., Faber, and Reeves.
Sherr, Rubby.
Ward, Curtis E., assignor to Collins Radio Company, Cedar Rapids, Iowa. High powered wave guide load. 2,669,696, Feb. 16.
Warren, Madden M., Atlanta, assignor of one-half to G. M. Kirby, College Park, Ga. Rotary mower blade. 2,669,084, Feb. 16.
Watson, Edmund A., Ridgewood, and G. L. Preston, Montclair, N. J., assignors to American Car and Foundry Company, New York, N. Y. Tool holding block. 2,669,149, Feb. 16.
Weatherhead Company, The, assignee: *See*—
St. Clair, Theodore A.
Webb, Frank R., assignee: *See*—
Hinson, James L.
Weber, Bruce T.: *See*—
Boghosian, William H., Och, and Weber.
Weber, Louis J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble feeding apparatus. 2,669,506, Feb. 16.
Webster, Benjamin C., Southport, assignor to The Bryant Electric Company, Bridgeport, Conn. Safety housing for electrical apparatus. 2,669,649, Feb. 16.
Weems, Albert W. and S. J., Meridian, Miss. Cotton-picking machine. 2,669,081, Feb. 16.
Weems, Sterling J.: *See*—
Weems, Albert W. and S. J.
Weinrich, William W., Wallingford, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Processes employing fluent solid particles. 2,669,540, Feb. 16.
Weinstock, Kermit V.: *See*—
Schaffel, Gerson S., and Weinstock.
Weir, Harold A., Youngstown, Ohio. Clothesline prop. 2,669,411, Feb. 16.
Weiss, Willi, Vernier-Geneva, assignor to Society "Brevets Aero-Mecaniques," S. A., Geneva, Switzerland. Shattering and incendiary shell. 2,669,182, Feb. 16.
Welford, Stanley F. W.: *See*—
Kendall, John D., Wood, and Welford.
Wells, Bruce C.: *See*—
McLane, Fletcher E., and Wells.
Wells Manufacturing Corporation, assignee: *See*—
Bowers, Raymond W., and Alexander.
Wesp, George L.: *See*—
Mowry, David T., Ringwald, and Wesp.
Western Electric Company, Incorporated, assignee: *See*—
Babbitt, Bethel J.
Bohaboy, Edward J., and Roach.
Gambrill, Richard D.
Westinghouse Electric Corporation, assignee: *See*—
Baston, Cyril E.
Burdett, John C.
Frank, Stanley L.
Geiselman, Ralph A., and Biggs.
Gelzheiser, Francis L.
Hansen, Hans E.
Jackson, Hagan L.
Johnson, John S., Sterrett, and Garber.
Lund, Alvin O.
Lundahl, Walter N., and Wright.
MacNeill, John B., Florschutz, Lindstrom, and Tremblay.
MacNeill, John B., Leeds, and Baker.
McLane, Fletcher E., and Wells.
Oplinger, Kirk A., and McIntosh.
Opsahl, Alert M.
Owens, James B.
Owens, James B., and Beach.
Purifoy, George R.
Silvius, Walter P.
Van Sickle, Roswell C.
Vaughan, Thomas H.
Vogeley, Clyde E., Jr., and Stahl.
Wrenn, William E.
Young, Douglass A., Lunas, and Walsweer.
Wetzel, Mayo R., Salt Lake City, Utah. Hole enlarger for nursing nipples. 2,669,644, Feb. 16.
Wheaton, Robert M., assignor to The Dow Chemical Company, Midland, Mich. Making water-soluble sulfonated vinyl aromatic resins. 2,669,557, Feb. 16.
White, Reginald A., Deepwood, Chappaqua, N. Y., assignor to General Precision Laboratory, Incorporated. Sound stabilization system. 2,669,452, Feb. 16.
White, William E., Bethlehem, Pa., assignor to Bethlehem Steel Company. Stockyard fence. 2,669,434, Feb. 16.
Whitin Machine Works, assignee: *See*—
Snow, Gerald A., and Trebes.
Whitmer, Joseph C.: *See*—
Dinsmore, Albert P., Treseder, Light, Geyer, and Whitmer.
Whitney, Loren L., Jr., Alliance, Ohio. Refining ferrous metals. 2,669,511, Feb. 16.
Wightman, Lynn, deceased, Beverely Hills, Calif., E. Stallcup, executrix of said L. Wightman. Cleaning and oiling apparatus for dental instruments. 2,669,242, Feb. 16.
Williams, Calvin D., Cloquet, Minn. Device for restoring cylindrical objects. 2,669,277, Feb. 16.
Williams, Donald A.: *See*—
Larsen, Earl I., Doty, and Williams.
Williams, John B., Parbold, near Wigan, assignor to Ajax Trucks Limited, Manchester, England. Lifting and transporting truck. 2,669,421, Feb. 16.
Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Magnifying viewer for weighing scales. 2,669,154, Feb. 16.

Williams, Ray S., Orrville, Ohio, assignor to Hagan Corporation, Pittsburgh, Pa. Multipressure totalizing device and adjustable fulcrum therefor. 2,669,129, Feb. 16.
Wills, Marion C. and W. J., Topeka, and E. E. Dorkins, Ottawa, Kans.; said Dorkins assignor to said M. C. and W. J. Wills. Ditcher having slidable boom supported bucket control means. 2,669,367, Feb. 16.
Wills, Wayne J.: *See*—
Wills, Marion C. and W. J., and Dorkins.
Wilson, Armin G., Newark, and M. Tishler, Westfield, assignors to Merck & Co., Inc., Rahway, N. J. Dihydrostreptomycin tri- (p-aminosalicylate) and preparing the same. 2,669,562, Feb. 16.
Wilson, Charles R., Pekin, Ill. Micrometer tangent bar. 2,669,027, Feb. 16.
Wilson, Harry R., Waterloo, Iowa, assignor, by mesne assignments, to Skil Corporation. Guard for the periphery of rotary disk cutters on machine tools. 2,669,264, Feb. 16.
Wilson, John H., Wichita Falls, Tex. Precast concrete foundation holding jig. 2,669,013, Feb. 16.
Wimmer, Ludwig: *See*—
Holstebroe, Kaye B., and Wimmer.
Winkel, Herbert C., Watervliet, Mich. Grid pasting machine. 2,669,376, Feb. 16.
Wittmann, Robert A., Chicago, Ill. Diaphragm valve. 2,669,249, Feb. 16.
Wolferz, Edwin C., Nutley, N. J. Welded tubing end construction. 2,669,467, Feb. 16.
Wood, Frank J., New Rochelle, assignor to E. Loewy, New York, N. Y. Material handling device. 2,669,140, Feb. 16.
Wood, Henry W.: *See*—
Kendall, John D., Wood, and Welford.
Wood, Morris E., Bronson, Mich., assignor to Higbie Manufacturing Company. Fishing reel arbor. 2,669,399, Feb. 16.
Wood, Morris E., Bronson, Mich., assignor to Higbie Manufacturing Company. Arbor for spools. 2,669,400, Feb. 16.
Woodward, H. F., assignee: *See*—
Reece, Clarence D.
Wrathall, Robert W.: *See*—
Simmons, James D., Liversidge, and Wrathall.
Wrenn, William E., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Motor control system for regulating systems. 2,669,680, Feb. 16.
Wright, Ira W.: *See*—
Messick, Elbert C., and Wright.
Wright, Robert L.: *See*—
Lundahl, Walter N., and Wright.
Yale & Towne Manufacturing Company, The, assignee: *See*—
Quayle, George F.
Yardney International Corp., assignee: *See*—
André, Henri G.
Young, David W., Roselle, N. J., assignor to Standard Oil Development Company. Stabilized organic compositions containing alkoxy phenols and mercapto alkanoic acids. 2,669,507, Feb. 16.
Young, Douglass A., East Orange, L. J. Lunas, Cedar Grove, and J. Walsweer, Glen Ridge, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Recorder with movable chart carriage. 2,669,501, Feb. 16.
Young, Farrile S., Houston, Tex., assignor to Panhandle Eastern Pipe Line Company, Kansas City, Mo. Weld in pipe line valve structure. 2,669,419, Feb. 16.
Young, Harold S., Chula Vista, Calif. Combination high chair, ladder, and stool. 2,669,285, Feb. 16.
Young, John C., Pittsburgh, Pa. Strainer for downspout drains. 2,669,358, Feb. 16.
Young, L. A., Spring & Wire Corporation, assignee: *See*—
Asaro, Vito, and Krajewski.
Yurasko, Frank H., Roselle, and H. C. North, Westfield, N. J., assignors to Standard Oil Development Company. Separation of vapors and viscous liquids. 2,669,538, Feb. 16.
Zimmermann, Wilhelm, assignor to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany. Cooling apparatus. 2,669,032, Feb. 16.
Zonolite Company, assignee: *See*—
Dresser, Harry A.
Zozulin, Igor V.: *See*—
Okulitch, George J., Zozulin, Okulitch, and Volkoff.
Zublin, John A., Los Angeles, Calif. Apparatus for drilling lateral bores deviating from vertical well bores. 2,669,428, Feb. 16.
Zublin, John A., Los Angeles, Calif. Apparatus for drilling deviating bores utilizing a plurality of curved tubular drill guide sections. 2,669,429, Feb. 16.
Zublin, John A., Los Angeles, Calif. Apparatus for drilling deviating bores utilizing a plurality of straight tubular drill guide sections. 2,669,430, Feb. 16.
Zussman, Hyman W., and R. L. Bernstein, Providence, assignors to Alrose Chemical Company, Cranston, R. I. Detergents containing imidazoline lactates. 2,669,546, Feb. 16.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF FEBRUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Balance testing appliance. I. A. Weaver and C. H. Phelps. Re. 23,784–5, Feb. 16.
Frangible piston ring. E. W. Patterson. Re. 23,782, Feb. 16.
Time switch unit for universal use, Demountable. R. D. Smith. Re. 23,783, Feb. 16.

LIST OF PLANT INVENTIONS

Nectarine tree. G. Merrill. 1,256, Feb. 16.
Peach tree. G. Merrill. 1,257, Feb. 16.
Rose plant. E. S. Boerner. 1,251–3, Feb. 16.
Rose plant. H. C. Swim. 1,254–5, Feb. 16.

LIST OF DESIGN INVENTIONS

Advertising display or similar article. E. R. Loew. 171,510, Feb. 16.
Aircraft. S. Lightbourn. 171,509, Feb. 16.
Air diffuser for ceilings. L. Krueger. 171,505, Feb. 16.
Awning for a casement window, Metal. R. A. Childers, C. C. Miller, and C. Smith. 171,491, Feb. 16.
Bag, Lady's utility. T. W. Spradling. 171,520, Feb. 16.
Bowl. C. W. Hensley. 171,498, Feb. 16.
Brooch or the like. A. Katz. 171,500–2, Feb. 16.
Brooch or the like. A. Philippe. 171,518–19, Feb. 16.
Candlestick. H. Pachico. 171,517, Feb. 16.
Chair. A. S. Goldberg. 171,493–4, Feb. 16.
Chair, Combination folding camp, boat, and lawn. F. A. Laird. 171,506, Feb. 16.
Chair or similar article, Upholstered. I. S. Taffae. 171,521, Feb. 16.
Clock. R. M. Babel. 171,478, Feb. 16.
Container, Cosmetic. C. L. Otto. 171,516, Feb. 16.
Cutter blade, Gasket. C. H. Zimmerman. 171,522, Feb. 16.
Dispenser, Tablet. K. D. Olsen. 171,515, Feb. 16.
Door catch, Cabinet. E. M. Borchers. 171,485, Feb. 16.
Door catch, Surface mount. E. M. Borchers and A. W. Ahlgren. 171,486, Feb. 16.
Dress, Child's. H. Landorf. 171,507, Feb. 16.
Earring or the like. A. Katz. 171,503–4, Feb. 16.
Escutcheon plate. H. R. Bassaraba. 171,479, Feb. 16.
Escutcheon plate for television receivers. R. C. Marholz. 171,511, Feb. 16.
Fender flap. M. Hallward. 171,496, Feb. 16.
File unit, Index. D. J. Behnk. 171,481, Feb. 16.
Game board. D. G. Bloesch. 171,483, Feb. 16.
Handbag. S. Hyman. 171,499, Feb. 16.
Harmonica. J. E. Legler. 171,508, Feb. 16.
Heel protector, Shoe. C. C. Alberts. 171,476, Feb. 16.
Helmet. W. T. Erickson and M. J. Palmu. 171,492, Feb. 16.
Lamp base, Electric. D. Borowitz. 171,487–90. Feb. 16.
Lamp, Table. H. S. Miller. 171,512, Feb. 16.
Plate or similar article. T. O. Muench. 171,513–14, Feb. 16.
Rack, Tie. R. J. Anderson. 171,477, Feb. 16.
Respirator. L. H. M. Bickel. 171,482, Feb. 16.
Stereoscopic viewer, Folding. R. C. Beck. 171,480, Feb. 16.
Tassel for pull cords. S. R. Bond. 171,484, Feb. 16.
Tire. P. E. Hawkinson. 171,497, Feb. 16.
Vending machine, Coin operated. W. R. Gray. 171,495, Feb. 16.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF FEBRUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acid-catalyzed furfuryl alcohol resin bonding material. R. B. Seymour and R. P. Desch. 2,669,552, Feb. 16.
Activation of oxalate metal coating compositions. R. C. Gibson. 2,669,532, Feb. 16.
Adhesive and manufacture of combined fiberboard therewith, Laminating. R. L. Kreyling. 2,669,282, Feb. 16.
Adjustable fluid pump. W. H. De Lancey, B. P. Pond, and H. L. Chisholm, Jr. 2,669,189, Feb. 16.
Adjustable sales tax stamp holder. E. C. Fisher. 2,669,352, Feb. 16.
Adjustable strike. W. R. Jewell. 2,669,477, Feb. 16.
Adjustable vehicle seat. F. A. Pall and L. A. Pfankuch. 2,669,284, Feb. 16.
Adjustment mechanism for microscopes. K. Frischmann. 2,669,158, Feb. 16.
Adrenal gland stimulating substance, Preparation of an. I. M. Bunding. 2,669,536, Feb. 16.
Adrenocorticotrophin-gelatin preparation. R. E. Thompson. 2,669,537, Feb. 16.
Agricultural implement. W. P. Oehler. 2,669,174, Feb. 16.
Aircraft propeller speed controller. A. P. Dinsmore, R. C. Treseder, J. W. Light, H. M. Geyer, and J. C. Whitmer. 2,669,312, Feb. 16.
Aircraft velocity indicating pulse echo system. R. Sherr. 2,669,710, Feb. 16.
Air pump for food containers. V. B. Lazerus. 2,669,176, Feb. 16.
Alcohol synthesis. W. E. Catterall and S. C. Lane. 2,669,589, Feb. 16.
Alcoholysis of lower fatty acid groups in polyhydroxy fatty esters. R. L. Logan. 2,669,572, Feb. 16.
Alloys, Production of. W. H. Richardson. 2,669,534, Feb. 16.
Anchor escapement. R. Straumann. 2,669,089, Feb. 16.
Annealing apparatus. J. E. Erhardt, Jr. 2,669,442, Feb. 16.
Antenna, Television. J. T. Donnelly. 2,669,405, Feb. 16.
Apparatus for applying terminals to electrical conductor wires. E. J. Bohaboy and C. J. Roach. 2,668,950, Feb. 16.
Apparatus for closing paper bags. W. R. Peterson and W. R. Penrod. 2,669,201, Feb. 16.
Apparatus for drilling deviating bores utilizing a plurality of curved tubular drill guide sections. J. A. Zublin. 2,669,429, Feb. 16.
Apparatus for drilling deviating bores utilizing a plurality of straight tubular drill guide sections. J. A. Zublin. 2,669,430, Feb. 16.
Apparatus for drilling lateral bores deviating from vertical well bores. J. A. Zublin. 2,669,428, Feb. 16.
Apparatus for drying a liquid coating on an elongated product. C. R. Chase and G. L. Bliss. 2,669,031, Feb. 16.
Apparatus for generating and delivering hot gaseous products. R. M. Sherman. 2,669,443, Feb. 16.
Apparatus for heating and cooling air. A. C. Peterson. 2,669,100, Feb. 16.
Apparatus for installing clips in coil springs. G. D. Fenton and E. S. Tideman. 2,669,275, Feb. 16.
Apparatus for mud weight determination. C. R. Nichols. 2,669,118, Feb. 16.
Apparatus for packaging articles. J. W. Armsby. 2,669,076, Feb. 16.
Apparatus for packaging plastic materials. J. Benz. 2,669,077, Feb. 16.
Apparatus for preparing and applying plastic coating material. C. K. Smith. 2,669,436, Feb. 16.
Apparatus for producing perspective drawings. E. G. Hysing. 2,669,025, Feb. 16.
Apparatus for removal of excess spelter from the interior of larger sizes of conduit or the like by means of hot purging fluid. W. S. Pearson. 2,669,217, Feb. 16.
Apparatus for removing ballast from below railroad track rails. J. M. Fox and C. J. Reigh. 2,669,041, Feb. 16.
Apparatus for rolling threads into metal pipe. H. J. Finch. 2,669,139, Feb. 16.
Apparatus for sorting articles such as mail. R. Gourdon. 2,669,365, Feb. 16.
Apparatus for the aeration of water for purification purposes. P. C. Lindenbergh. 2,669,440, Feb. 16.
Apparatus for the manufacture of synthetic thread. H. A. Kuljian. 2,669,346, Feb. 16.
Apparatus for the selection of seeds or similar material. J. Musil. 2,669,353, Feb. 16.
Apparatus for transmitting intense vibrations for performing work. J. C. O'Connor. 2,669,447, Feb. 16.
Apparatus for treating water. M. Riddiford and R. Goldstein. 2,669,661, Feb. 16.
Appliance for pressing neckties or strip material. J. S. Corby. 2,669,045, Feb. 16.
Applying treating liquid to a filament as it moves over a thread storing and advancing reel, Means for. H. A. Kuljian. 2,669,109, Feb. 16.
Arbor for spools. M. E. Wood. 2,669,400, Feb. 16.
Archery sight. J. F. Pizzuti. 2,669,023, Feb. 16.
Area illuminator for cathode-ray tubes, Adjacent. A. B. Du Mont. 2,669,708, Feb. 16.
Arrangement for measuring electric energy in short duration time intervals. K. J. Aversten. 2,669,638, Feb. 16.
Article of feminine hygiene. H. C. Friend. 2,669,233, Feb. 16.
Artificial Christman tree. G. B. Smith. 2,669,049, Feb. 16.
Artificial denture. W. A. Bader. 2,669,021, Feb. 16.
Artificial hand. J. Sargeson. 2,668,959, Feb. 16.
Asbestos-cement sheets, Making. C. C. Smith. 2,669,166, Feb. 16.
Aspirator thermocouple mounting for measuring the temperature of hot gases. B. M. Larsen. 2,669,593, Feb. 16.
Automatic clearance adjusting mechanism for single-disk, spot-type brakes. R. K. Chamberlain and K. P. Hillegass. 2,669,327, Feb. 16.
Automatic pick and pick motion in weaving looms. R. Foisy and J. A. Vezina. 2,669,260, Feb. 16.
Automatic poultry feeder. H. Erickson. 2,669,218, Feb. 16.
Automotive ignition contact point. F. W. Hartman, Jr. 2,669,633, Feb. 16.
Baby bottle holder. D. A. Roselle. 2,669,407, Feb. 16.
Bag seal. W. M. Brooks. 2,669,476, Feb. 16.
Balanced phase detector. W. J. Gruen. 2,669,655, Feb. 16.
Band-sawing machine, Hydraulically-adjustable horizontal. R. W. Bowers and C. J. Alexander. 2,669,261, Feb. 16.
Bar: *See*—
Micrometer tangent bar.
Barge tipple. J. H. Bernhard. 2,669,210, Feb. 16.
Basically substituted amides of dicarboxylic acids. J. W. Cusic. 2,669,582, Feb. 16.
Battery, Alkaline. W. W. Gary, Jr. 2,669,595, Feb. 16.
Battery enclosure, Reserve. F. H. Nelson. 2,669,596, Feb. 16.
Bearing: *See*—
Self-aligning powdered metal bearing.
Bearing and spacing guide member for glass block panel construction. N. S. Erickson. 2,669,116, Feb. 16.
Belt feed for firearms. B. Maillard. 2,669,160, Feb. 16.
Belt for power transmission, Toothed. W. H. Raser, Jr. 2,669,127, Feb. 16.
Benziothiazyl sulfenamides in lubricants. W. Lowe. 2,669,544, Feb. 16.
Beta-dextrose by melting and crystallizing, Preparation of. F. E. Kite. 2,669,530, Feb. 16.
Bicycle saddle support. R. W. Faulhaber. 2,669,283, Feb. 16.
Bis-(amino aryl) methane polyamides, Preparing. C. A. Sperati. 2,669,556, Feb. 16.
Bis(beta chlorethyl) sulfide, Making. G. E. Miller, E. M. Faber, and A. M. Reeves. 2,669,587, Feb. 16.
Bis (hydroxyaryl) substituted compounds, Production of. P. H. Deming and H. Dannenberg. 2,669,588, Feb. 16.
Bismuth salt of penicillin. S. L. Ruskin. 2,669,563, Feb. 16.
Bitumen and polyvalent metal hydrocarbon oil sulfonate composition and making same. D. W. Bransky, J. A. Bolt, M. W. Stacy, and M. Feller. 2,669,525, Feb. 16.
Blade dispensing magazine with used blade compartment. C. L. Metzler. 2,669,348, Feb. 16.
Block: *See*—
Continuous take-up block. Tool holding block.
Block wall, Faced, reinforced. R. W. Mills. 2,669,114, Feb. 16.
Blouse construction for dresses. A. R. Johnson. 2,668,955, Feb. 16.
Blower and cutter for comminuting and conveying fodder, Centrifugal. P. R. T. Treckmann. 2,669,271, Feb. 16.
Blower of the long-travel trolley supported type, Retractable soot. L. S. De Mart. 2,668,978, Feb. 16.
Board: *See*—
Plotting board.
Bobbin replenishing mechanism for winding machines. G. A. Snow and H. H. Trebes. 2,669,397, Feb. 16.

Bodying catalysts for drying oils. E. E. Parker. 2,669,573, Feb. 16.
Bookrest. H. J. Fadeley, Jr. 2,669,058, Feb. 16.
Boot having constricting tie, Lightweight. J. J. Marx. 2,669,035, Feb. 16.
Bore sight, Folding. R. Flanagan. 2,669,024, Feb. 16.
Bottle arranging machine. K. B. Holstebroe and L. Wimmer. 2,669,341, Feb. 16.
Bottle cap. E. J. Towns. 2,669,369, Feb. 16.
Box: *See*—
Food delivery box.
Bracket: *See*—
Self-adjusting window shade bracket.
Brake: *See*—
Vehicle brake.
Brake. H. E. Kniepkamp. 2,669,326, Feb. 16.
Brake control, Power. E. R. Price. 2,669,329, Feb. 16.
Braking system for electric motors, Dynamic. I. W. Lichtenfels. 2,669,685, Feb. 16.
Brief case. C. W. Keirsey. 2,669,273, Feb. 16.
Broaching machine. P. A. Ketchpel. 2,669,164, Feb. 16.
Broad band testing. R. W. Edmonds. 2,669,691, Feb. 16.
Broiling unit for ranges, Auxiliary. F. H. Schneider. 2,669,645, Feb. 16.
Broom, brush, and the like, Refillable. G. Pignato. 2,668,972, Feb. 16.
Brush. J. F. Bagley, Jr. 2,668,971, Feb. 16.
Bubble blowing machine. O. D. McNeill. 2,669,059, Feb. 16.
Bulb changing device. B. T. Bowie. 2,669,478, Feb. 16.
Bumper jack. C. E. Branick. 2,669,422, Feb. 16.
Bumper jack. C. E. Branick. 2,669,424, Feb. 16.
Burner: *See*—
Fuel burner.
Burner throat with air inlet annulus defined by internally bladed cone. T. B. Stillman and J. A. Mason. 2,669,296, Feb. 16.
Bus duct switch. H. J. Hammerly. 2,669,632, Feb. 16.
Bushing, Insulating. J. S. Johnson, C. C. Sterrett, and J. R. Garber. 2,669,601, Feb. 16.
Cabin pressure control. R. A. Fischer. 2,669,175, Feb. 16.
Cable network for impact bulkheads, High strength. B. E. Del Mar. 2,669,402, Feb. 16.
Cam operated trimming dies. C. M. Brehm. 2,669,302, Feb. 16.
Cam switch. V. R. Despard. 2,669,613, Feb. 16.
Camera, Flow film. H. T. Olson. 2,669,398, Feb. 16.
Cap: *See*—
Bottle cap.
Car: *See*—
Drop bottom car.
Carburetor air cleaner and humidifier. J. Inglesby. 2,669,319, Feb. 16.
Carton, Egg. J. A. R. Grenier. 2,669,380, Feb. 16.
Case: *See*—
Brief case.
Food carrying and preparation case.
Centrifugal switch. E. M. Scheid and P. Preis. 2,669,619, Feb. 16.
Ceramic distributor for radiant gas burners. E. Blaha. 2,669,300, Feb. 16.
Chair: *See*—
Folding chair. Knockdown chair.
Channel receiver, Dual. W. S. Rial. 2,669,712, Feb. 16.
Chloral, Manufacture of. L. R. Coster. 2,669,585, Feb. 16.
Chord player. M. Maccaferri. 2,669,151, Feb. 16.
Chuck. E. H. Johnson. 2,669,458, Feb. 16.
Chute for flour sifters. A. Fishman. 2,669,356, Feb. 16.
Cigarette or cigar. A. D. Rawlings. 2,669,238, Feb. 16.
Circuit: *See*—
Limiter amplifier circuit. Vehicle signaling circuit.
Circuit breaker. F. L. Gelzheiser. 2,669,627, Feb. 16.
Circuit breaker. J. B. MacNeill, F. E. Florschutz, T. Lindstrom, and B. G. Tremblay. 2,669,623, Feb. 16.
Circuit breaker, Electric. R. N. Rowe. 2,669,626, Feb. 16.
Circuit breaking arrangement for automobiles, Protective automatic. W. Poznik. 2,669,664, Feb. 16.
Circuit for a series wound reversible motor, Control. W. D. Macgeorge. 2,669,684, Feb. 16.
Circuit having presettable count means, Electronic signal responsive. J. C. Manley. 2,669,390, Feb. 16.
Circuit interrupter. J. B. MacNeill, W. M. Leeds, and B. P. Baker. 2,669,629, Feb. 16.
Circuit interrupter. A. M. Opsahl. 2,669,630, Feb. 16.
Circuit interrupter, Liquid break. R. C. Van Sickle. 2,669,628, Feb. 16.
Clamp: *See*—
Connector clamp.
Clarification treatment of solids carrying liquid and apparatus therefor. W. A. Kivell and R. S. Rankin. 2,669,357, Feb. 16.
Cleaning and oiling apparatus for dental instruments. L. Wightman. 2,669,242 Feb. 16.
Cleaning device for artificial dentures. W. S. Reynolds and G. A. Gardner. 2,669,243, Feb. 16.
Clock, Combined electrically-mechanically operated. C. R. Boyd. 2,669,088, Feb. 16.
Clutch: *See*—
Motor clutch.
Clutch and brake, Fluid engaged. C. Johnson. 2,669,333, Feb. 16.
Coal boring unit. A. F. Castanoli and D. F. Parker. 2,669,441, Feb. 16.
Code selector. F. Gray. 2,669,706, Feb. 16.
Coin control and change apparatus. S. May. 2,669,335, Feb. 16.
Coin controlled mechanism. J. W. Hunsinger. 2,669,336, Feb. 16.
Coin hopper. W. M. Stewart. 2,669,337, Feb. 16.
Collar stiffener. H. Gordon. 2,668,956, Feb. 16.
Colostomy apparatus. H. C. Burton. 2,669,235, Feb. 16.
Combined shutoff and relief valve. G. E. Hansen. 2,669,253, Feb. 16.
Combustion chamber. R. J. Jackson. 2,669,090, Feb. 16.
Combustion method and apparatus. R. M. Sherman. 2,669,297, Feb. 16.
Communication system utilizing magnetic recorders. G. H. Lee. 2,669,605, Feb. 16.
Composite packaging or wrapping material and manufacture thereof. I. Spitz. 2,669,258, Feb. 16.
Compressor system and moisture separator therefor. A. E. Schmidlin. 2,669,321, Feb. 16.
Computer having spot correction means, Gun data. W. H. Boghosian, H. G. Och, and B. T. Weber. 2,669,386, Feb. 16.
Concrete foundation holding jig, Precast. J. H. Wilson. 2,669,013, Feb. 16.
Conicgraph. T. S. Sajatovich. 2,669,022, Feb. 16.
Connector: *See*—
Dead-end connector. Sealed connector.
Connector clamp. W. C. Morrow. 2,668,995, Feb. 16.
Contact device for synchronous switches. P. Duffing. 2,669,621, Feb. 16.
Contact potential variable potential charger. R. R. Annis, S. Cohen, and H. Haselkorn. 2,669,665, Feb. 16.
Contacting plate for liquid-liquid extraction tower. C. O. Rhys, Jr., and W. E. Stanton. 2,669,505, Feb. 16.
Container: *See*—
Waste container.
Container. B. C. Colt, Jr. 2,669,373, Feb. 16.
Container feed construction, Collapsible lug. M. P. Neal. 2,669,342, Feb. 16.
Container filling device. C. P. Campbell. 2,669,406, Feb. 16.
Container holder. H. L. Parsons. 2,669,409, Feb. 16.
Continuous take-up block. E. J. McIlvried and C. P. Gardner. 2,669,347, Feb. 16.
Control apparatus for internal-combustion engines. L. Lee, II. 2,669,093, Feb. 16.
Control device. D. N. Walker. 2,669,245, Feb. 16.
Control means for divider plates of filing drawers. C. W. Straubel. 2,669,237, Feb. 16.
Control system for coaxial helicopter blades. A. C. Thomson. 2,669,308, Feb. 16.
Conversion of hydrocarbons with combustion gas and finely divided catalyst. H. J. Hepp. 2,669,591, Feb. 16.
Conveyer. R. I. Berry. 2,669,343, Feb. 16.
Conveyer, Balanced sectionalized vibratory. J. A. Flint. 2,669,344, Feb. 16.
Cooling apparatus. W. Zimmermann. 2,669,032, Feb. 16.
Cooling-drying and cutting combination for macaroni machines and an improved method of making square-cut macaroni units. J. Pellegrino. 2,669,195, Feb. 16.
Copolymer of a diolefine and a ketone. G. S. Schaffel and K. V. Weinstock. 2,669,553, Feb. 16.
Copper complex compounds of monoazo dyestuffs. A. Schmelzer and O. Bayer. 2,669,561, Feb. 16.
Corner brace. R. E. Bailey. 2,669,497, Feb. 16.
Corner bracket for telescopic engagement with a table. A. E. Puls and E. R. Swenson. 2,669,496, Feb. 16.
Cotton picker drum assembly. H. N. Swim, Jr. 2,669,080, Feb. 16.
Cotton-picking machine. A. W. and S. J. Weems. 2,669,081, Feb. 16.
Coupling: *See*—
Insulating coupling.
Variable-speed hydraulic coupling.
Cover: *See*—
Vehicle wheel cover.
Crutch with adjustable handgrip. C. C. Greene and C. V. Johnson. 2,669,244, Feb. 16.
Cultivating row crops. J. Severance. 2,669,067, Feb. 16.
Cultivator, Rotary. J. Severance. 2,669,173, Feb. 16.
Cup-core assembly for inductors. A. Rauch. 2,669,700, Feb. 16.
Cup dispenser. H. F. Bremer. 2,669,498, Feb. 16.
Cupola furnace. R. Doat. 2,669,446, Feb. 16.
Cushion assembly, Spring. V. Asaro and E. P. Krajewski. 2,669,292, Feb. 16.
Cushion construction. A. C. Hoven and W. E. Nordmark. 2,669,291, Feb. 16.
Cushion structure, Chair seat. J. S. Burdick, A. B. Nevins, and J. C. King. 2,669,294, Feb. 16.
Cutter: *See*—
Roller cutter.
Cutter for forage harvesters. J. L. Hinson. 2,669,083, Feb. 16.
Cyano ether-esters. D. T. Mowry, E. L. Ringwald, and G. L. Wesp. 2,669,558, Feb. 16.
Cylindrical surfaces, Making. W. F. Perkins. 2,669,010, Feb. 16.

Deacetylated chitin shrinkproofing of wool and product. J. B. Rust. 2,669,529, Feb. 16.
Dead-end connector. M. D. Bergan. 2,669,600, Feb. 16.
Delayed action attachment for printing press grippers. C. B. Kliever. 2,669,180, Feb. 16.
Detergents containing imidazoline lactates. H. W. Zussman and R. L. Bernstein. 2,669,546, Feb. 16.
Determining deviations in the amount of frequency variation between telegraph transmitters and receivers, Method of and means for. H. Heuschmann. 2,669,604, Feb. 16.
Determining earth formation factors, Method and apparatus for. H. Doll. 2,669,689, Feb. 16.
Determining electrical characteristics of semiconductive bodies. G. L. Pearson. 2,669,692, Feb. 16.
Determining sulfur contents by combustion. G. H. Halvorson, E. H. Lutz, and J. F. Swensen. 2,669,504, Feb. 16.
Device for aligning feed of paper sheets in printing machines. G. Babicz. 2,669,454, Feb. 16.
Device for cold pressure welding wires and the like. A. B. Sowter. 2,669,138, Feb. 16.
Device for driving films in cinematographic projectors. W. Gugger. 2,669,451, Feb. 16.
Device for heating and cooling vehicles. J. T. Shields. 2,669,101, Feb. 16.
Device for maintaining alignment between molds and cooperating rotating cores. A. A. Heyman. 2,669,196, Feb. 16.
Device for removing shocks of railroad rails. O. Poebing 2,669,394, Feb. 16.
Device for restoring cylindrical objects. C. D. Williams. 2,669,277, Feb. 16.
Device for rowing a boat with one hand. F. C. Mollenhauer. 2,668,965, Feb. 16.
Device for transferring fluids. R. H. Fletcher. 2,669,483, Feb. 16.
Diacyloxydecadienes, Preparation of. R. S. Urban. 2,669,579, Feb. 16.
Dialkyl-α,α'-dicyano-2,5-dialkoxy-p-benzenediacrylates. N. W. Solonen and D. L. Randall. 2,669,575, Feb. 16.
Diaphragm valve. R. A. Wittmann. 2,669,249, Feb. 16.
Die assembly for utilizing hydrostatic pressure in a deep body of water for forming sheets. F. C. Hoffman. 2,669,209, Feb. 16.
Dihydrostreptomycin tri-(p-aminosalicylate) and preparing the same. A. G. Wilson and M. Tishler. 2,669,562, Feb. 16.
Direct positive emulsions. J. D. Kendall, H. W. Wood, and S. F. W. Welford. 2,669,515, Feb. 16.
Dispenser: *See*—
Cup dispenser. Pocket dispenser.
Dispenser or applicator. E. G. Borowick. 2,669,232, Feb. 16.
Display and delivery stand. G. A. Just. 2,669,361, Feb. 16.
Display form, Dress. N. F. Schilling. 2,669,375, Feb. 16.
Display surface for color television tubes. E. O. Lawrence. 2,669,675, Feb. 16.
Ditcher having slidable boom supported bucket control means. M. C. and W. J. Wills and E. E. Dorkins. 2,669,367, Feb. 16.
Ditching machine adjustment, V-type. O. L. Gregerson. 2,669,040, Feb. 16.
Ditching machine, Rotary wheel-type. B. E. Bunnell. 2,669,039, Feb. 16.
Divider means for filing drawers. C. W. Straubel. 2,669,236, Feb. 16.
Doll, Animated. H. P. Stewart. 2,669,064, Feb. 16.
Door lock. T. Kanell. 2,669,474, Feb. 16.
Door mounting for structures, including cupboards. H. Vanderplank. 2,669,499, Feb. 16.
Door stop and holder. L. F. Kinker. 2,669,475, Feb. 16.
Door suspension, especially for trucks and trailers. E. T. Ridgway. 2,668,982, Feb. 16.
Drag scoop for handling riprap. C. J. Swank. 2,669,042, Feb. 16.
Drier and stretcher, Fur pelt. E. Schulz, Sr. 2,669,057, Feb. 16.
Drilling apparatus, Earth. J. H. Crowell. 2,669,431, Feb. 16.
Drive arrangement for truck mixers. C. Gerst. 2,669,131, Feb. 16.
Drive means. R. Lapsley. 2,669,132, Feb. 16.
Drop bottom car. R. A. Shields. 2,669,191, Feb. 16.
Dumping control for scrapers. K. E. Reischl. 2,669,043, Feb. 16.
Dyeing and presetting tricot fabrics. L. L. Walmsley. 2,669,502, Feb. 16.
Dynamic-braking motor-protection. G. R. Purifoy. 2,669,679, Feb. 16.
Dynamoelectric machine with sealed rotor. J. F. Haines. 2,669,667, Feb. 16.
Ejector-wrench for nipples, Multisocket. J. Falk. 2,669,148, Feb. 16.
Elasticizing plastic carboxyl containing synthetic polymeric rubbery materials and elastic products produced thereby. H. P. Brown. 2,669,550, Feb. 16.
Electric contact material and making the same. E. I. Larsen, A. S. Doty, and D. A. Williams. 2,669,512, Feb. 16.
Electric current producing cell with tin anode. S. Ruben. 2,669,597, Feb. 16.
Electric impulse generator. H. K. Spaulding. 2,669,669, Feb. 16.
Electric switch. S. L. Frank. 2,669,616, Feb. 16.
Electrical accumulator. H. G. André. 2,669,594, Feb. 16.
Electrical control arrangement. J. D. Simmons, J. H. Liversidge, and R. W. Wrathall. 2,669,126, Feb. 16.
Electrical control switch. W. P. Silvius. 2,669,611, Feb. 16.
Electrically conductive material. C. J. Ford. 2,669,646, Feb. 16.
Electrolysis of sodium sulfate. W. P. Dooley. 2,669,542, Feb. 16.
Electromagnetic attraction motor. M. de Tastes. 2,669,687, Feb. 16.
Electromagnetic contactor. F. E. McLane and B. C. Wells. 2,669,620, Feb. 16.
Electromagnetic fluid pump. N. H. Godbold. 2,669,183, Feb. 16.
Electron discharge device. E. G. Linder. 2,669,609, Feb. 16.
Elevator system, Automatic landing. A. O. Lund. 2,669,324, Feb. 16.
Enamel composition having a stabilized drying rate and preparing same. D. F. Koenecke and J. F. McKay, Jr. 2,669,526, Feb. 16.
Endgate for vehicles. W. O. Kammueller and O. A. Haeuser. 2,669,368, Feb. 16.
Energy absorber. A. Raines. 2,669,325, Feb. 16.
Engine: *See*—
Overhead valve engine.
Esters of organic carboxylic acids. Q. E. Thompson. 2,669,566, Feb. 16.
Esters of organic sulfonic acids. Q. E. Thompson. 2,669,574, Feb. 16.
Etching machine. J. A. Easley, W. E. Eden, and H. E. Swayze. 2,669,048, Feb. 16.
Evaporator construction for heat exchange systems. H. Malkoff. 2,669,099, Feb. 16.
Externally heated, revolving furnace. P. Beetz. 2,669,444, Feb. 16.
Extracting plants with their roots and packing the roots. S. E. Clegg. 2,669,065, Feb. 16.
Extractive distillation. W. E. Catterall. 2,669,541, Feb. 16.
Extractor and cleaner, Cotton hull. A. L. Vandergriff. 2,668,989. Feb. 16.
Fastener: *See*—
Separable fastener.
Fastener device for garments and the like. J. Fröhlich. 2,668,954, Feb. 16.
Fastening means for demountable wheels. C. J. Fernandez. 2,669,486, Feb. 16.
Feed trough for hogs and the like. J. L. Schroeder. 2,669,219, Feb. 16.
Feeder: *See*—
Automatic poultry feeder.
Feeding device, Infant's. S. Baracate. 2,669,234, Feb. 16.
Fence for motor roads, Safety. S. A. Rasmussen. 2,669,433, Feb. 16.
Fence, Stockyard. W. E. White. 2,669,434, Feb. 16.
Fertilizer conditioner. H. A. Dresser. 2,669,510, Feb. 16.
Fill cap for tank bodies, Self-venting. W. V. Brown and W. F. Logemann. 2,669,250, Feb. 16.
Filler disk for bunny machines. P. A. Beach. 2,668,976, Feb. 16.
Filter: *See*—
Liquid filter.
Filter and adsorber for fluid treatment. S. W. Briggs. 2,669,318, Feb. 16.
Filter scraper blade, Adjustable. J. W. Little. 2,669,360, Feb. 16.
Filter signal. F. S. Ehrman. 2,669,707, Feb. 16.
Fishhook, Expanding. M. J. Cavanaugh. 2,669,053, Feb. 16.
Fishhook remover. F. J. Doerr. 2,669,055, Feb. 16.
Fishing line float. W. T. Smith, Sr. 2,669,054, Feb. 16.
Fishing reel arbor. M. E. Wood. 2,669,399, Feb. 16.
Flame resistant compositions. L. A. Bierly. 2,669,521, Feb. 16.
Flat characteristic regulator. T. A. St. Clair. 2,669,071, Feb. 16.
Flaw detector for knitting machines. J. W. Phillips and J. A. Roush. 2,669,107, Feb. 16.
Floating roof. M. K. Allen and R. C. Ulm. 2,669,372, Feb. 16.
Floating roof. R. C. Ulm. 2,669,371, Feb. 16.
Floor construction for railway cars. H. E. Osborn. 2,669,193, Feb. 16.
Floor-covering cushion. T. Horwich. 2,669,527, Feb. 16.
Floor unit. F. L. Taphoureau. 2,668,991, Feb. 16.
Flotation methods and reagent. F. R. Archibald. 2,669,355, Feb. 16.
Flotation reagents, Preparing. F. R. Archibald. 2,669,545, Feb. 16.
Fluid control system for railroad rail sanding devices. L. W. Harms. 2,669,472, Feb. 16.
Fluid-pressure operated device. G. Olah. 2,669,247, Feb. 16.
Fluid pressure treatment of skins. R. H. Griffin. 2,669,111, Feb. 16.
Fluorine compounds, Production of. C. B. Miller and L. B. Smith. 2,669,590, Feb. 16.
Flywheel. J. P. Shell. 2,669,130, Feb. 16.

Folding chair. J. A., J. R., and J. F. Usher. 2,669,289, Feb. 16.
Folding the ends of a fabric band over the end shoulders of a tire building drum. W. J. Breth. 2,669,281, Feb. 16.
Food carrying and preparation case. C. H. Becker. 2,669,641, Feb. 16.
Food delivery box. M. Curcio. 2,669,385, Feb. 16.
Food service system and means therefor. F. T. Hilliker. 2,669,323, Feb. 16.
Footwear, Flexible. S. Israel. 2,669,036, Feb. 16.
Form and holding means therefor. W. A. Seemann. 2,669,000, Feb. 16.
4-amino-2-alkoxybenzamides and their preparation. R. O. Clinton and S. C. Laskowski. 2,669,583, Feb. 16.
Frame construction for vehicle running gears. R. R. Raney. 2,669,461, Feb. 16.
Fuel burner. J. Lusky, Jr., J. C. Henry, Jr., and A. McFarland. 2,669,484, Feb. 16.
Fuel control apparatus for jet engines. L. Lee, II. 2,669,094, Feb. 16.
Fuel line and the like and means for heating the same. B. F. Roach. 2,669,299, Feb. 16.
Fuel mixer. A. J. Christensen. 2,669,508, Feb. 16.
Furnace: *See*—
Cupola furnace.
Externally heated, revolving furnace.
Furnace control system, Arc. R. A. Geiselman and G. C. Biggs. 2,669,673, Feb. 16.
Furnace for annealing glass. O. Wambreuze. 2,669,068, Feb. 16.
Furnace wall construction. W. A. Waite. 2,669,115, Feb. 16.
Furoquinoxalines and thienoquinoxalines as catalysts in dye bleach baths for color photography. F. W. H. Mueller. 2,669,517, Feb. 16.
Fusee holder. L. Cooper and B. L. McNulty. 2,669,181, Feb. 16.
Garage door opening means. C. B. Eaton and A. B. Jackson. 2,668,980, Feb. 16.
Garment, Foundation. E. H. Tofanelli. 2,668,953, Feb. 16.
Gas valve. F. D. Howe. 2,669,255, Feb. 16.
Gasifying carbonaceous solids. F. B. Sellers. 2,669,509, Feb. 16.
Gate latch. B. F. Trumbo. 2,669,473, Feb. 16.
Gathering head for combines. R. L. Anderson. 2,669,082, Feb. 16.
Gauge: *See*—
Mass measuring liquid level float gauge.
Vacuum gauge.
X-ray thickness gauge.
Gear checking device. F. A. La Femina. 2,669,028, Feb. 16.
Gel powder preparation. H. A. Shabaker. 2,669,547, Feb. 16.
Gelling compositions. G. L. Baker. 2,669,519, Feb. 16.
Generator: *See*—
Electric impulse generator.
Stabilized generator.
Triangular wave generator.
Germanium ball plates, Making. W. C. Dunlap, Jr. 2,669,533, Feb. 16.
Glassware annealing method and apparatus. D. G. Merrill. 2,669,069, Feb. 16.
Glider carrying and releasing device for kites. D. A. McKay. 2,669,403, Feb. 16.
Governor. E. M. Bimberg. 2,669,229, Feb. 16.
Governor for engines driving variable pitch propellers, Automatic constant speed. R. Haskins. 2,669,310, Feb. 16.
Grinding machine. M. S. Bendickson. 2,669,073, Feb. 16.
Grinding machine. E. L. Harley. 2,669,074, Feb. 16.
Grinding wheel reciprocating mechanism. P. A. Grobey. 2,669,072, Feb. 16.
Ground gripping attachment. H. D. Mullan. 2,669,274, Feb. 16.
Guard for poultry drinking fountain bowls. J. W. Goff. 2,669,220, Feb. 16.
Guard for the periphery of rotary disk cutters on machine tools. H. R. Wilson. 2,669,264, Feb. 16.
Gun stock, Convertible. J. Cline. 2,669,051, Feb. 16.
Hair retainer, Flexible. R. A. Smith. 2,669,239, Feb. 16.
Hammer mill screen changing mechanism. A. G. Nickle. 2,669,396, Feb. 16.
Hand controller for plural drive motors. C. E. Baston. 2,669,682, Feb. 16.
Handle: *See*—
Knife handle.
Handsaw with parallel blades. E. Miller. 2,669,267, Feb. 16.
Head raising and lowering attachment for drill presses. J. H. Dodson. 2,669,136, Feb. 16.
Headrest mechanism for creepers. B. F. Simmons. 2,668,964, Feb. 16.
Heater: *See*—
Immersion heater.
Heating apparatus, Dual frequency induction. R. S. Segsworth. 2,669,647, Feb. 16.
Heating system. P. E. Schleicher. 2,669,393, Feb. 16.
Heating system, Poultry house. O. H. and R. M. Schwanger. 2,669,392, Feb. 16.
Heat-sealed composite article and shirred product and making same. M. O. Orr. 2,669,535, Feb. 16.
Heat-treating apparatus. W. H. Holcroft. 2,669,445, Feb. 16.
Heel, Shock absorbing shoe. R. De Werth. 2,669,038, Feb. 16.
Heel with rotatably adjusted section, Rubber. B. Gilowitz. 2,669,037, Feb. 16.
Helicopter rotor. R. B. Lightfoot. 2,669,313, Feb. 16.
Hide treating apparatus. R. H. Griffin. 2,669,112, Feb. 16.
High attenuation shielded lead structure. S. P. Bird. 2,669,695, Feb. 16.
High chair, ladder, and stool, Combination. H. S. Young. 2,669,285, Feb. 16.
High powered wave guide load. C. E. Ward. 2,669,696, Feb. 16.
Hinge, Dual. H. E. Dawdy. 2,668,981, Feb. 16.
Hoeing equipment, Power-actuated. J. D. Sauder. 2,669,170, Feb. 16.
Hoist, Anchor. A. Dowrello. 2,669,427, Feb. 16.
Hoisting apparatus. A. Gaskin. 2,669,425, Feb. 16.
Hoisting apparatus. C. W. Kahlerth. 2,669,363, Feb. 16.
Holder: *See*—
Adjustable sales tax stamp holder.
Baby bottle holder.
Container holder.
Fusee holder.
Key holder.
Hole enlarger for nursing nipples. M. R. Wetzel. 2,669,644, Feb. 16.
Homogenizer, Nonrotary gel fuel. L. J. Geeraert. 2,669,437, Feb. 16.
Homopolymers of alkyl N-substituted maleimides. J. J. Giammaria. 2,669,555, Feb. 16.
Hub to shaft connection. B. B. Breslow. 2,669,471, Feb. 16.
Hydraulic control for steering clutches. O. H. Banker. 2,669,330, Feb. 16.
Hydraulic lift jack. S. J. Pehrsson. 2,669,423, Feb. 16.
Image projection optical system. A. E. Glancy and J. K. Davis. 2,669,709, Feb. 16.
Immersion heater. H. O. Cord, B. G. Merten, and C. J. Ryant, Jr. 2,669,435, Feb. 16.
Impeller or pump, Hydraulic. C. E. Tallis. 2,669,185, Feb. 16.
Improving the properties of certain explosives. A. T. Blomquist, F. T. Fiedorek, and J. F. Ryan, Jr. 2,669,576, Feb. 16.
Improving the yield from betatron X-ray generators, Means for. G. D. Adams and D. W. Kerst. 2,669,652, Feb. 16.
Incinerator with damper controlled internal flue. V. B. Remore. 2,669,199, Feb. 16.
Increasing the inductance of a loop antenna. A. C. Stelzer. 2,669,528, Feb. 16.
Increasing the tear resistance of plastic film. J. Bailey, J. Pinsky, and C. G. Reber. 2,668,988, Feb. 16.
Indexing mechanism for turret lathes. H. B. Soule and G. W. Smithson. 2,669,006, Feb. 16.
Indexing table. R. J. Joy. 2,669,362, Feb. 16.
Indicator: *See*—
Liquid level indicator.
Indicator for pneumatic tires. V. O. Sletten and C. C. Bowman. 2,669,617, Feb. 16.
Injection apparatus. J. H. Smoot. 2,669,230, Feb. 16.
Inking mechanism for cylinder printing presses. J. Haspert. 2,669,179, Feb. 16.
Insulating coupling. F. T. Newell. 2,669,465, Feb. 16.
Insulating material, Sheathed electric heater. W. T. Rawles. 2,669,636, Feb. 16.
Invertoscope for photographic cameras. L. Meditz. 2,669,169, Feb. 16.
Ion exchange process for separating proteins. A. F. Reid. 2,669,559, Feb. 16.
Ironing machine, Clothes. E. H. Stevenson. 2,669,046, Feb. 16.
Ironing machine pad. S. A. Obitz. 2,669,003, Feb. 16.
Jack: *See*—
Bumper jack.
Hydraulic lift jack.
Joint seal, Fluid tight passage. F. Cloete. 2,669,466, Feb. 16.
Jointer-planer. J. W. Edgemond, Jr. 2,669,265, Feb. 16.
Journal bearing, in particular for axles of rolling stock. R. Turk. 2,669,492, Feb. 16.
Key holder. R. S. Gillette. 2,669,113, Feb. 16.
Kinescope, Four-color. L. B. Headrick. 2,669,671, Feb. 16.
Kitchen or camp implements. M. J. Smith. 2,669,018, Feb. 16.
Knife handle. C. Miller. 2,669,019, Feb. 16.
Knitting machine. A. Belford. 2,669,104, Feb. 16.
Knitting machine stop mechanism. D. Pernick. 2,669,106, Feb. 16.
Knockdown chair. W. L. Shepherdson. 2,669,295, Feb. 16.
Lamp assembly, Magnetic trouble. E. J. Smith. 2,669,650, Feb. 16.
Lamp for mixed light, Electric. J. Buser. 2,669,676, Feb. 16.
Landing aid. J. H. Hammond, Jr., and A. D. Trenor. 2,669,703, Feb. 16.
Latch: *See*—
Gate latch.
Latch for folding tables. H. E. Lenz, Sr. 2,669,494, Feb. 16.
Lathe, Single spindle automatic. C. E. Miller. 2,669,005, Feb. 16.
Leaf gathering and disposal machine. H. G. Gregory. 2,669,078, Feb. 16.
Leak detecting apparatus. R. D. Gambrill. 2,669,660, Feb. 16.

Lehr. C. W. Kulig. 2,669,070, Feb. 16.
Lens, Electromagnetic. C. C. Cutler. 2,669,657, Feb. 16.
Level. L. B. Ries. 2,669,029, Feb. 16.
Lid lifting tool. R. C. Bradbury. 2,669,143, Feb. 16.
Light attachment, Electric shaver. C. A. Radcliff. 2,669,648, Feb. 16.
Light shade, Planar translucent. G. E. MacFadden. 2,669,651, Feb. 16.
Lignin-reinforced rubber. D. W. MacGregor and T. R. Griffith. 2,669,592, Feb. 16.
Limiter amplifier circuit. J. B. Maggio. 2,669,654, Feb. 16.
Link suspension, Torque compensated. J. P. Butterfield. 2,669,315, Feb. 16.
Liquid filter. P. A. Mankin. 2,669,359, Feb. 16.
Liquid level indicator. C. C. Slisby, Jr. 2,669,122, Feb. 16.
Liquid supply system for automobiles. C. F. Jackson. 2,669,251, Feb. 16.
Load indicating accumulator for gauges. N. F. Hawthorne. 2,669,387, Feb. 16.
Loading fixture, Rasp. P. C. Neilsen. 2,669,014, Feb. 16.
Loading machine, Power operated conveyer-type. R. W. Kling. 2,669,338, Feb. 16.
Lock: *See*—
Door lock.
Log-barking machine having a gimbal mounting for toothed log-feeding wheels. O. Bouchard. 2,669,266, Feb. 16.
Loom shuttle. K. Massey and R. V. Patchett. 2,669,259, Feb. 16.
Lubricant. S. Hirsch. 2,669,543, Feb. 16.
Lubricating device for single cylinder horizontal internal-combustion engines, Splash type. H. S. Brown. 2,669,322, Feb. 16.
Machine for blunting the ends of brush bristles. S. Dreyfus. 2,669,075, Feb. 16.
Machine for erecting double side walls on double walled cartons. J. D. Behl. 2,669,167, Feb. 16.
Machine for packing a predetermined weight of bulk product. E. H. Carruthers. 2,669,378, Feb. 16.
Machine for putting lids on pullman bread pans. E. Van Poolen and L. G. Vogel. 2,669,377, Feb. 16.
Machine for reslicing bread. I. B. Rosenberg. 2,669,270, Feb. 16.
Magazine structure for self-processing film. E. H. Land. 2,669,168, Feb. 16.
Magnetically driven centrifugal pump. G. J. Okulitch, I. V. Zozulin, V. J. Okulitch, and G. M. Volkoff. 2,669,668, Feb. 16.
Mailbox and package support, Rural. A. W. Cox. 2,669,408, Feb. 16.
Mailing piece. K. S. and B. F. Lay. 2,669,464, Feb. 16.
Making slides, Method and apparatus for. R. F. Barter. 2,669,279, Feb. 16.
Manometer, Closed mercury. H. Hesse. 2,669,125, Feb. 16.
Manually operated shutoff valve. J. Gilroy. 2,669,415, Feb. 16.
Marking device, Electrically heated. L. L. Menges. 2,669,642, Feb. 16.
Mass measuring liquid level float gauge. R. G. Ballard. 2,669,123, Feb. 16.
Material handling device. F. J. Wood. 2,669,140, Feb. 16.
Material handling device, Granular. B. S. Snow. 2,669,488, Feb. 16.
Measuring instrument, Jointed. H. J. Doerr. 2,669,026, Feb. 16.
Mechanism for manipulating flexible revetment mats. F. I. Louckes. 2,669,479, Feb. 16.
Metal pipe having a rolled thread. H. J. Finch. 2,669,469, Feb. 16.
Meter: *See*—
Sensitive indicating electric meter.
Supersonic flow meter.
Meter for movie cameras, Exposure. C. W. Brow. 2,669,155, Feb. 16.
Metering system, Fluid. H. Gold and D. M. Straight. 2,669,482, Feb. 16.
Method and apparatus for forming crankshafts. A. Pitt and L. F. Knight. 2,669,637, Feb. 16.
Method and apparatus for the production of welded tubing. H. J. Bowman. 2,669,639, Feb. 16.
Micrometer tangent bar. C. R. Wilson. 2,669,027, Feb. 16.
Mirror assembly, Rearview. H. R. Rogers. 2,669,159, Feb. 16.
Mixer: *See*—
Fuel mixer.
Mixer and dispenser, Game ball. J. J. Hickey. 2,669,456, Feb. 16.
Mixer and mixing, Liquid. G. C. Gester, Jr. and D. B. Sewell. 2,669,438, Feb. 16
Modulator. C. E. Vogeley, Jr. and W. L. Stahl. 2,669,694, Feb. 16.
Mold for and molding foam rubber strips and the like. E. P. Harris and F. W. Sampson. 2,668,987, Feb. 16.
Molded products of lignocellulose and lignin, Preparing. D. F. Othmer and W. R. Smith. 2,669,522, Feb. 16.
Molding apparatus. B. J. Babbitt. 2,668,985, Feb. 16.
Molding machine, Plastic. R. W. Miler. 2,668,986, Feb. 16.
Mop having triangular compressible cleaning element. H. B. Toombs. 2,668,969, Feb. 16.
Mop, Self-wringing. V. K. Cooper. 2,668,970, Feb. 16.
Mortarboard. J. Fuhrmann. 2,669,117, Feb. 16.
Motor: *See*—
Electromagnetic attraction motor.
Two-speed single-phase induction motor.
Motor clutch. C. G. Dudis and J. F. Denlinger. 2,669,331, Feb. 16.
Motor-control prior to dynamic braking. G. R. Purifoy. 2,669,681, Feb. 16.
Motor control system for regulating systems. W. E. Wrenn. 2,669,680, Feb. 16.
Motor mount, Variable-speed control. O. W. Howard. 2,669,404, Feb. 16.
Mounting: *See*—
Resilient wheel mounting.
Spectacles adjustable glare shield mounting.
Mousetrap. J. L. Lehman. 2,669,056, Feb. 16.
Moving stairway. H. E. Hansen. 2,669,339, Feb. 16.
Moving target generating device. F. W. Brown. 2,669,033, Feb. 16.
Mower blade, Rotary. M. M. Warren. 2,669,084, Feb. 16.
Mud ditch, Portable. A. B. Harris. 2,669,097, Feb. 16.
Multiple lane air doffer. R. L. Sjostrom. 2,669,340, Feb. 16.
Musical instrument. P. Shklar. 2,669,150, Feb. 16.
N-acyloxyalkyl substituted derivatives of aminoalkoxydiarylmethanes and salts thereof. J. W. Cusic. 2,669,577, Feb. 16.
N-vinyl pyrrolidone, Production of. A. W. Schnizer. 2,669,570, Feb. 16.
Needle-bar drive link for sewing machines. R. E. Johnson. 2,669,208, Feb. 16.
Needle stabilizer for sewing machines. B. P. Pinkvoss and S. J. Ketterer. 2,669,206, Feb. 16.
Noise reduction in quantized pulse transmission systems with large quanta. W. M. Goodall. 2,669,608, Feb. 16.
Nozzle supporting means, Needle-cooling air. R. Happe. 2,669,207, Feb. 16.
Nozzle with detachable brush carrying unit, Vacuum cleaner. C. H. MacFarland. 2,668,979, Feb. 16.
Nut sheller. L. J. Meyer. 2,669,268, Feb. 16.
Oil burning apparatus. W. H. De Lancey. 2,669,184, Feb. 16.
Oil cup assembly machine. H. Otte. 2,669,009, Feb. 16.
Oil well pump. E. J. Mullins. 2,669,190, Feb. 16.
Ornament, Ear. R. M. Ronstadt. 2,669,102, Feb. 16.
Out-of-stock responsive mechanism. R. W. Brown. 2,669,345, Feb. 16.
Overhead valve engine. W. E. Drinkard. 2,669,227, Feb. 16.
p-alkoxysalicylic acids, Manufacture of. R. S. Long and N. P. Buckwalter. 2,669,580, Feb. 16.
Package for liquids. C. M. Carson and J. E. Snyder. 2,669,351, Feb. 16.
Packaging and display unit, Combination. R. S. Railton. 2,669,350, Feb. 16.
Pad: *See*—
Ironing machine pad.
Paper bag having flap with reinforced locking tongue and ticket retainer. G. W. Poppe. 2,669,382, Feb. 16.
Paper machinery. J. Baxter, Jr. 2,669,165, Feb. 16.
Parachute equipment. L. L. Irvin and G. H. Gould. 2,668,997, Feb. 16.
Pasting machine, Grid. H. C. Winkel. 2,669,376, Feb. 16.
Pebble feeding apparatus. L. J. Weber. 2,669,506, Feb. 16.
Pen, Adjustable ruling. R. D. Shomo. 2,669,225, Feb. 16.
Pen, Antiflood fountain. B. F. Miessner. 2,669,223, Feb. 16.
Pencil. H. L. Larsen. 2,669,222, Feb. 16.
Pen nib with spreader. B. F. Miessner. 2,669,224, Feb. 16.
Perforating machine, Record controlled. H. A. Hendrich. 2,669,303, Feb. 16.
Petroleum production process. R. A. Mulholland and B. S. Friedman. 2,669,307, Feb. 16.
Petroleum production process. J. W. Teter and B. S. Friedman. 2,669,306, Feb. 16.
Phase correction of asymmetric dual feed horns. H. L. Jackson. 2,669,658, Feb. 16.
Photoelectric sorter for documents such as checks, etc. J. Perrin. 2,669,354, Feb. 16.
Photographic article for making a one step transfer image. E. H. Land. 2,669,516, Feb. 16.
Phthalocyanine pigments, Producing. T. D. Mutaffis. 2,669,569, Feb. 16.
Picture projector, Endless slide chain. K. Schmitt. 2,669,157, Feb. 16.
Piezoelectric transducer. W. P. Mason and B. T. Matthias. 2,669,666, Feb. 16.
Pin: *See*—
Resilient coupling pin.
Safety pin.
Plate provided with depending gripping means. D. J. Olson. 2,669,379, Feb. 16.
Plate whirler. J. D. Maxwell. 2,669,216, Feb. 16.
Plotting board. H. G. Och and D. B. Parkinson. 2,669,500, Feb. 16.
Plug: *See*—
Retrievable cementing plug.
Plug with compressible means to retain contacts therein, Electrical. E. P. Brus. 2,669,701, Feb. 16.
Pneumatic control and/or measuring means. C. G. Hård af Segerstad. 2,669,246, Feb. 16.
Pocket dispenser. E. C. Silver. 2,669,349, Feb. 16.

Porous carbon electrodes, manufacturing. A. Marko and K. Kordesch. 2,669,598, Feb. 16.
Power plant with exhaust gas recycling, Gas turbine. N. W. Hammaren. 2,669,092, Feb. 16.
Power unit. A. A. Anglemyer. 2,669,426, Feb. 16.
Predetermined counter system. B. Fox. 2,669,388, Feb. 16.
Preset electrical control instrumentality with plug-in shaft. A. M. Daily, M. B. Arisman, and D. A. Pierce. 2,669,634, Feb. 16.
Press: *See*—
Rotary press.
Pressing machine, Trousers. A. B. Jones. 2,669,374, Feb. 16.
Pressure indicating device. A. S. Badger. 2,669,213, Feb. 16.
Printing means, Record controlled. A. B. Crowell 2,669,178, Feb. 16.
Printing mechanism. W. P. Loudon. 2,669,177, Feb. 16.
Processes employing fluent solid particles. W. W. Weinrich. 2,669,540, Feb. 16.
Processing of shellfish and crustaceans. C. R. Fellers. 2,669,520, Feb. 16.
Producing pinking shears, Method and apparatus for. K. S. Christensen. 2,669,133, Feb. 16.
Progressively welding railroad car side walls. A. C. Schanz. 2,669,015, Feb. 16.
Projector apparatus, Image slide. H. G. Fitz Gerald. 2,669,156, Feb. 16.
Prop, Clothesline. H. A. Weir. 2,669,411, Feb. 16.
Propane deasphalting of crude residua of hydrocarbon oil. J. G. Ditman. 2,669,539, Feb. 16.
Propeller, Vane. A. L. Akre. 2,669,309, Feb. 16.
Pump: *See*—
Adjustable fluid pump.
Electromagnetic fluid pump.
Magnetically driven centrifugal pump.
Oil well pump.
Reciprocatory electromagnetic pump.
Pump and motor hydraulic actuator. C. J. Bishofberger. 2,669,095, Feb. 16.
Pump and motor unit, Glandless. E. Guyer. 2,669,187, Feb. 16.
Pump impeller. B. D. McIntyre. 2,669,188, Feb. 16.
Rack construction for refrigerator cars, Floor. H. E. Osborn. 2,669,192, Feb. 16.
Railway car retarder. C. W. Kuhn. 2,669,489, Feb. 16.
Rake, Self-cleaning. P. J. Kairis. 2,669,086, Feb. 16.
Range measuring system. J. R. Moore. 2,669,711, Feb. 16.
Razor head. K. Seko. 2,669,017, Feb. 16.
Receptacle for filing papers. J. Podgursky. 2,669,381, Feb. 16.
Reciprocatory electromagnetic pump. L. C. Parker. 2,669,186, Feb. 16.
Record controlled reproducing system. W. W. Carpenter. 2,669,304, Feb. 16.
Recorder with movable chart carriage. D. A. Young, L. J. Lunas, and J. Walsweer. 2,669,501, Feb. 16.
Recording method. P. A. Luppen. 2,669,034, Feb. 16.
Refining ferrous metals. L. L. Whitney, Jr. 2,669,511, Feb. 16.
Refrigerating system for trucks. C. J. Buell. 2,669,098, Feb. 16.
Regenerating anion exchange resins. R. H. Osmun. 2,669,713, Feb. 16.
Regulator: *See*—
Flat characteristic regulator.
Regulator for the rear quarter window of automobiles, Window. C. L. Pfeiffer. 2,669,450, Feb. 16.
Releasing device for locking pliers. H. A. Mead. 2,669,145, Feb. 16.
Remote-control system for gear shifting in angularly disposed vehicle transmissions. H. O. Schjolin. 2,669,316, Feb. 16.
Remote indicating system. R. A. Pfuntner. 2,669,678, Feb. 16.
Removal of spent polymerization catalyst. A. G. Petkus. 2,669,531, Feb. 16.
Removing curing bags from tires, Method and apparatus for. W. J. Strong and R. E. Lindemann. 2,668,983, Feb. 16.
Resilient coupling pin. E. L. Launder. 2,669,153, Feb. 16.
Resilient suspension system for motorcycle wheels. P. L. Torre. 2,669,463, Feb. 16.
Resilient wheel mounting. W. W. Cushman. 2,669,448, Feb. 16.
Resistivity apparatus for obtaining indications of permeable formations traversed by boreholes. H. Doll. 2,669,688, Feb. 16.
Resistivity method for obtaining indications of permeable formations traversed by boreholes. H. Doll. 2,669,690, Feb. 16.
Resorcylic acid, Manufacture of. M. Scalera and S. M. Tsang. 2,669,581, Feb. 16.
Restoring used color-reactant record material for reuse. D. W. Steinhardt. 2,669,503, Feb. 16.
Retaining means for flexible tubes. B. Fisher. 2,669,231, Feb. 16.
Retrievable cementing plug. E. L. Condra. 2,669,305, Feb. 16.
Reverse flow by-pass valve. F. L. Miller. 2,669,248, Feb. 16.
Ring: *See*—
Frangible piston ring.
Ring ridge reamer. A. C. Toske. 2,669,134, Feb. 16.
Roller cutter. H. C. Dill, W. H. Lyne and R. W. Schlumpf. 2,669,432, Feb. 16.
Roller skate wheel. F. E. Newman, W. T. Pearl, and E. T. Rainier. 2,669,485, Feb. 16.
Rotary press. I. C. Maxwell and O. H. Langen. 2,669,044, Feb. 16.
Rotatable device with servo control, Intermittently. C. E. Adams. 2,669,226, Feb. 16.
Rotor assembly apparatus. W. C. Rogers. 2,669,470, Feb. 16.
Rotor balancing means and method. H. T. Jensen and H. W. Bonnett. 2,669,120, Feb. 16.
Rotor blade. J. T. Purvis and L. C. Secord. 2,669,383, Feb. 16.
Rotor cooling, Gas turbine. A. H. Schutte. 2,669,091, Feb. 16.
Safe, Floor. R. H. Campbell. 2,669,198, Feb. 16.
Safety control device for heating burners. J. Basel. 2,669,298, Feb. 16.
Safety control for motor operated machines. A. L. Riche. 2,669,686, Feb. 16.
Safety device for guns. E. J. Quick. 2,669,050, Feb. 16.
Safety device for steam irons. A. A. Johnson. 2,669,643, Feb. 16.
Safety housing for electrical apparatus. B. C. Webster. 2,669,649, Feb. 16.
Safety pin. J. Kummli. 2,668,996, Feb. 16.
Safety valve. V. W. Farris. 2,669,252, Feb. 16.
Sandbag. O. M. Permann. 2,669,272, Feb. 16.
Sanitary attachment for telephones. H. F. Dent. 2,669,610, Feb. 16.
Sash guide and weather stripping for removable windows, Combined. D. F. Holmes. 2,668,990, Feb. 16.
Saw equipment for traveling-saw sawmills, Multiple. W. W. Stevens. 2,669,262, Feb. 16.
Saw, Slotting. W. Stern. 2,669,007, Feb. 16.
Scaffold for bridges and the like, Traveling. I. S. Kaufman. 2,669,490, Feb. 16.
School desk seat support. W. J. Bargen. 2,669,288, Feb. 16.
Scoop, Ice-cream. A. G. Brown. 2,669,194, Feb. 16.
Scoreboard, Boxing. M. J. Mesi and R. G. Davis. 2,669,389, Feb. 16.
Screw assembly for rocker arms, Adjusting. P. F. Bergmann. 2,669,228, Feb. 16.
Screw pitch change and locking device, Automatic. M. de Lagrevol and R. Laboureix. 2,669,311, Feb. 16.
Screws having mismatched threaded sections, Making self-locking. W. D. Corlett and C. G. Mackie. 2,668,966, Feb. 16.
Scrubber, Meat block. J. M. Dobrowolski. 2,668,968, Feb. 16.
Sealed connector. C. W. Klostermann. 2,669,702, Feb. 16.
Seat: *See*—
Adjustable vehicle seat.
Selecting device for controlling machine or apparatus members. C. W. Berthiez. 2,669,214, Feb. 16.
Selective oxidation process. W. R. Middleton. 2,669,586, Feb. 16.
Selective reduction of polynitro aromatics. E. W. Lowe. 2,669,584, Feb. 16.
Self-adjusting window shade bracket. A. I. Coleman. 2,669,410, Feb. v6.
Self-aligning powdered metal bearing. J. Haller. 2,669,491, Feb. 16.
Semiconductive photoelectric transducer. W. G. Pfann. 2,669,635, Feb. 16.
Semiconductor photoconducting device. J. I. Pantchechnikoff. 2,669,663, Feb. 16.
Sensitive indicating electric meter. K. Greulich. 2,669,215, Feb. 16.
Separable fastener. G. A. Tinnerman. 2,668,998, Feb. 16.
Separation of vapors and viscous liquids. F. H. Yurasko and H. C. North. 2,669,538, Feb. 16.
Separator: *See*—
Storage battery plate separator.
Separator and filter for air pressure lines, Water. P. B. Shaw. 2,669,320, Feb. 16.
Setting device. H. M. Sandkaulen. 2,669,163, Feb. 16.
Setting wool fabrics. J. N. Dalton and W. B. Kaupin. 2,669,002, Feb. 16.
Set-up means for pattern controlled machine tools, Universal. A. G. Frampton. 2,669,161, Feb. 16.
Sewing-machine attachment for producing combined edge-binding and double-ruffled trimming. A. J. and C. M. Hiltbrunner. 2,669,203, Feb. 16.
Sewing machine with zigzag attachment. E. Urscheler. 2,669,204, Feb. 16.
Shaft control mechanism. R. T. Cox. 2,669,615, Feb. 16.
Sheet delivering apparatus. A. J. Hory. 2,669,455, Feb. 16.
Shell, Shattering and incendiary. W. Weiss. 2,669,182, Feb. 16.
Shield, Protective face. T. T. MacLean. 2,668,951, Feb. 16.
Shock absorber. J. E. Gross. 2,669,449, Feb. 16.
Sight rib for shotguns. E. P. Simmons. 2,669,052, Feb. 16.

Signal: *See*—
Filter signal.
Surface marking signal.
Signal device, Protective. W. J. W. Collins. 2,669,705, Feb. 16.
Sink, Dish cleaning. M. Z. Thorson. 2,669,240, Feb. 16.
Sinuous spring attaching means. W. H. Neely. 2,669,290, Feb. 16.
Siphon bottle with gas generator. P. M. E. Deshayes. 2,669,439, Feb. 16.
Ski binding, Safety. M. T. Fleming. 2,669,459, Feb. 16.
Slicer for slicing a plurality of rows of buns, Rotary disk. A. S. Schmidt. 2,669,269, Feb. 16.
Sliding jaw closure remover, Cam operated. C. W. Fuller. 2,669,142, Feb. 16.
Sliding jaw screw cap jar wrench. E. B. Davis. 2,669,141, Feb. 16.
Snap-action device. C. Bradley. 2,669,618, Feb. 16.
Solid fuel combustion apparatus. E. L. Tinley and F. A. Driver. 2,669,200, Feb. 16.
Sound stabilization system. R. A. White. 2,669,452, Feb. 16.
Spectacles adjustable glare shield mounting. G. K. Kobashikawa. 2,668,952, Feb. 16.
Stabilized generator. L. E. Norton. 2,669,659, Feb. 16.
Stabilized halogen-containing resins. J. R. Darby and L. D. Frederickson. 2,669,548, Feb. 16.
Stabilized halogen-containing resins. J. R. Darby. 2,669,549, Feb. 16.
Stabilized organic compositons containing alkoxy phenols and mercapto alkanoic acids. D. W. Young. 2,669,507, Feb. 16.
Stalk cutting roller, Rotating. J. M. Landry. 2,669,079, Feb. 16.
Stand: *See*—
Display and delivery stand.
Starch sizes and making them, Cold water dispersible. R. W. Kerr and W. J. Katzbeck. 2,669,523, Feb. 16.
Stop-check valve. J. C. Hobbs. 2,669,413, Feb. 16.
Stop motion for knitting machines. J. and D. Wachsman. 2,669,105, Feb. 16.
Stopper, Rubber. I. G. Rayall, Jr. 2,669,370, Feb. 16.
Storage battery plate separator. E. Clark. 2,669,599, Feb. 16.
Strainer and stopper, Combination. C. J. Spector. 2,668,962, Feb. 16.
Strainer for downspout drains. J. C. Young. 2,669,358, Feb. 16.
Strainer, Gutter. T. Van Duzer. 2,669,197, Feb. 16.
Strap for trouser waists, Adjusting. R. Hofmann. 2,668,958, Feb. 16.
Stroller, Child's. R. Wallner. 2,669,460, Feb. 16.
Structural unit. M. E. C. Klose. 2,668,992, Feb. 16.
Submerged-melt electric series-arc welding. F. G. Outcalt and E. L. Frost. 2,669,640, Feb. 16.
Substituted benzoic acids, their salts and esters. Q. E. Thompson. 2,669,568, Feb. 16.
Substituted benzoyl halides. Q. E. Thompson. 2,669,567, Feb. 16.
Sulfuration of mineral oil. E. H. Sperry. 2,669,560, Feb. 16.
Supersonic flow meter. R. L. Garman, M. E. Droz, and J. W. Gray. 2,669,121, Feb. 16.
Support: *See*—
Bicycle saddle support.
School desk seat support.
Trouser support.
Support for bedsteads, Bedclothes. C. T. Drake. 2,668,963, Feb. 16.
Support for cylinders, Rotatable. C. N. Aronson. 2,669,364, Feb. 16.
Surface marking signal. R. O. Linck. 2,669,211, Feb. 16.
Swab for toilet bowls, Disposable. C. O. Jaeger. 2,668,974, Feb. 16.
Swaging or forging machines, Rotary. S. Smith. 2,669,137, Feb. 16.
Swing. R. M. Rink. 2,669,286, Feb. 16.
Switch: *See*—
Bus duct switch.
Cam switch.
Centrifugal switch.
Electric switch.
Electrical control switch.
Thermostatic switch.
Switch and fuse construction, Safety. J. S. Ferguson. 2,669,624, Feb. 16.
Switch for roller conveyers, Flexible. R. M. Metzgar. 2,669,334, Feb. 16.
Switch operating mechanism. J. B. Owens and E. F. Beach. 2,669,614, Feb. 16.
Switch operating mechanism. J. B. Owens. 2,669,622, Feb. 16.
Switch with step-by-step control, Selector. D. W. Johnson. 2,669,612, Feb. 16.
Switching apparatus. K. A. Oplinger and R. O. McIntosh. 2,669,631, Feb. 16.
Synchronized vehicle motion controlled record reproducing talking unit. G. R. Culbertson. 2,669,457, Feb. 16.
Tab control. C. A. Bosserman. 2,669,401, Feb. 16.
Table: *See*—
Indexing table.
Table and chair, Infant's or child's. A. E. Puls and E. R. Swenson. 2,669,287, Feb. 16.
Table for the arms of chairs or the like, Clamp-on. W. L. Foote. 2,669,495, Feb. 16.
Tag strip for price marking produce, Marking. F. L. Rieger. 2,669,047, Feb. 16.
Tail gate for enclosing the rear end of a trailer. K. W. Couse. 2,669,481, Feb. 16.
Target structure, Color image. S. H. Kaplan. 2,669,672, Feb. 16.
Telegraph apparatus, Printing. R. D. Salmon, L. S. Munck, and F. J. L. Turner. 2,669,602, Feb. 16.
Telephone system selector with message rate meter control, Automatic. W. W. Pharis. 2,669,607, Feb. 16.
Temperature compensated force and motion transmitting system. S. I. MacDuff. 2,669,096, Feb. 16.
Temperature compensation for tuners, Multipoint. G. Shapiro. 2,669,699, Feb. 16.
Tertiary-aminoalkyl 4-amino-2-alkoxythiolbenzoates and their preparation. R. O. Clinton and S. C. Laskowski. 2,669,564, Feb. 16.
Tertiary-aminoalkyl 4-substituted-amino-2-alkoxythiolbenzates and their preparation. R. O. Clinton and S. C. Laskowski. 2,669,565, Feb. 16.
Testing pneumatic tire components. E. B. Dodge. 2,669,119, Feb. 16.
Thermostatic switch. R. J. D. Roberts and A. H. Faulkner. 2,669,625, Feb. 16.
Threaded joint and element thereof having improved thread form. J. W. Clerke. 2,669,468, Feb. 16.
3,12-dihydroxy cholenic acids and their esters, Preparation of. T. Clayton, E. B. Hershberg, and B. F. Schoen. 2,669,571, Feb. 16.
Thrust bearing for rolling mill rolls and the like. L. L. Miller. 2,669,493, Feb. 16.
Tiller, Disk. W. H. Silver and J. I. Cantral. 2,669,171, Feb. 16.
Tiller hitch, One-way disk. C. L. Lokken. 2,669,172, Feb. 16.
Timing device, Electronic. J. J. Entwisle. 2,669,677, Feb. 16.
Timing device, Gravity operated. E. Bredimus and W. D. Foster. 2,669,087, Feb. 16.
Titanium base alloys containing aluminum and tin. R. I. Jaffee, H. R. Ogden, and D. J. Maykuth. 2,669,513, Feb. 16.
Titanium base alloys containing tin. W. L. Finlay, R. I. Jaffee, and H. R. Ogden. 2,669,514, Feb. 16.
Toe laster. J. S. Kamborian and F. Kaszynski. 2,668,967, Feb. 16.
Toilet flush tank strip lever construction. J. C. Owens. 2,668,961, Feb. 16
Toll trunking system, Automatic. F. Kessler and W. W. Pharis. 2,669,606, Feb. 16.
Tone wheel to produce frequency-modulated low-frequency oscillations. H. Eggers. 2,669,670, Feb. 16.
Tool: *See*—
Lid lifting tool.
Tool adapter for drill presses, Auxiliary. S. A. Arliss. 2,669,162, Feb. 16.
Tool construction, Machine. J. K. Moore. 2,669,135, Feb. 16.
Tool holding block. E. A. Watson and G. L. Preston. 2,669,149, Feb. 16.
Toothbrush having a removable head. V. J. and W. C. Glaza. 2,668,973, Feb. 16.
Totalizing device and adjustable fulcrum therefor, Multipressure. R. S. Williams. 2,669,129, Feb. 16.
Toy, Growing figure. P. W. Lang. 2,669,063, Feb. 16.
Toy lariat. F. A. Major 2,669,221, Feb. 16.
Toy log cabin. L. J. Kalvig. 2,669,060, Feb. 16.
Toy structural units, Means for making. J. Baechler. 2,668,999, Feb. 16.
Toy sword. E. W. Baggott. 2,669,062, Feb. 16.
Toy with sound effect, Mechanic simulating. L. M. and T. M. Orren. 2,669,061, Feb. 16.
Tractor for semitrailers and the like. R. A. Celien. 2,669,317, Feb. 16.
Tractor with trailer coupling device, Warehouse type. G. F. Quayle. 2,669,314, Feb. 16.
Trailer, Camping and boat transporting. E. C. Messick and I. W. Wright. 2,669,480, Feb. 16.
Transformer coupling network. R. C. Olesen. 2,669,697, Feb. 16.
Transformer, Radio frequency matching. V. R. De Long. 2,669,698, Feb. 16.
Transmission line with magnetic loading. M. P. Prache. 2,669,603, Feb. 16.
Traveling wave tube. G. Diemer. 2,669,674, Feb. 16.
Treating and applying live pollen. L. C. Antles. 2,669,066, Feb. 16.
Treating cashew nut shell liquid with fluoboric acid. C. F. Armitage. 2,669,554, Feb. 16.
Treating whole eggs. D. Torr. 2,669,518, Feb. 16.
Treating yarns, Method and apparatus for. W. R. Keen. 2,669,001, Feb. 16.
Triacetoxy toluene. W. S. Knowles. 2,669,578, Feb. 16.
Triangular wave generator. L. A. Meacham. 2,669,656, Feb. 16.
Trombone. D. Shuman. 2,669,152, Feb. 16.
Trouser support. G. H. Schmidt. 2,668,957, Feb. 16.
Truck, Lifting and transporting. J. B. Williams. 2,669,421, Feb. 16.
Tube: *See*—
Traveling wave tube.
Tube corrugating machine. R. C. Andersen. 2,669,278, Feb. 16.
Tube for butter serving machines, Feeding. S. A. Thomas. 2,669,020, Feb. 16.
Tubes, Making finned. E. Bruegger. 2,669,012, Feb. 16.
Tungsten articles of predetermined shape and dimensions, Manufacturing. R. Levi. 2,669,008, Feb. 16.

Tuning apparatus, Cyclotron. W. W. Salisbury. 2,669,653, Feb. 16.
Turbine structure. H. T. Holzwarth. 2,669,420, Feb. 16.
Turn indicator for vehicles. J. J. Dean. 2,669,212, Feb. 16.
Twin beam weigher. L. J. Nowak, Jr. 2,669,412, Feb. 16.
Two-speed single-phase induction motor. J. C. Burdett. 2,669,683, Feb. 16.
Unloader. R. L. Dills. 2,669,384, Feb. 16.
Unloading mechanism for motor vehicles. E. J. Sievers. 2,669,366, Feb. 16.
Urea-formaldehyde resins and making same. T. H. Vaughan. 2,669,551, Feb. 16.
V-belts, Making. H. O. Augustin. 2,669,280, Feb. 16.
Vacuum cleaner cart, Wheeled. C. D. Reece. 2,668,977, Feb. 16.
Vacuum gauge. J. A. Roberts. 2,669,124, Feb. 16.
Valve: *See*—
- Combined shutoff and relief valve.
- Diaphragm valve.
- Gas valve.
- Manually operated shutoff valve.
- Reverse flow by-pass valve.
- Safety valve.
- Stop-check valve.

Valve. I. V. Brumbaugh. 2,669,418, Feb. 16.
Valve. P. A. Ketchpel and H. K. Egli. 2,669,414, Feb. 16.
Valve arrangement for flush tanks. H. Barrett-Lennard. 2,668,960, Feb. 16.
Valve for high hydraulic pressures, Balanced slide. W. A. Ray. 2,669,417, Feb. 16.
Valve for hydraulic motor control systems, Fluid-metering. L. E. Rampton. 2,669,256, Feb. 16.
Valve for water closet tanks, Mixing. J. J. Kelsch. 2,669,391, Feb. 16.
Valve or the like, Furnace. G. E. Hansen. 2,668,994, Feb. 16.
Valve structure, Weld in pipe line. F. S. Young. 2,669,419, Feb. 16.
Valve with fluid pressure release mechanism, Quick closing. A. Ramsay. 2,669,257, Feb. 16.
Valve with removable self-cleaning seat, Fabricated. H. S. Hilton. 2,669,416, Feb. 16.
Valves, Making. I. V. Brumbaugh. 2,669,011, Feb. 16.
Vaporizer, Electrically heated. J. H. Bair. 2,668,993, Feb. 16.
Variable-speed hydraulic coupling. S. H. Gasche. 2,669,332, Feb. 16.
Varistor curve tracer. R. R. Blair. 2,669,004, Feb. 16.
Vegetable washing device. A. F. Foote. 2,669,241, Feb. 16.
Vehicle brake. T. K. Mace. 2,669,328, Feb. 16.
Vehicle frame structure, Motor. M. H. Toncray and D. K. Badertscher. 2,669,462, Feb. 16.
Vehicle signaling circuit. J. R. Hollins. 2,669,704, Feb. 16.
Vehicle wheel cover. H. J. Horn. 2,669,487, Feb. 16.
Velocity-reducing and filtering inlet for hydraulic tanks. G. W. Mork. 2,669,254, Feb. 16.
Venetian blind. C. S. Evans. 2,669,301, Feb. 16.
Viewer for weighing scales, Magnifying. L. S. Williams. 2,669,154, Feb. 16.
Vulcanizing outfit for repairing rubber articles. R. C. J. Gaschi. 2,668,984, Feb. 16.
Waste collecting means, Electric shaver. J. A. M. Conte. 2,669,016, Feb. 16.
Waste container. J. P. English and J. Magarinos. 2,669,030, Feb. 16.
Waste disposal apparatus with reversing means, Kitchen. T. H. Swisher. 2,669,395, Feb. 16.
Water-repelling composition. N. G. Mallander. 2,669,524, Feb. 16.
Water-soluble sulfonated vinyl aromatic resins, Making. R. M. Wheaton. 2,669,557, Feb. 16.
Web feed mechanism for adjustable rotary imprinters. D. L. Gorbatenko. 2,669,453, Feb. 16.
Welded tubing end construction. E. C. Wolferz. 2,669,467, Feb. 16.
Wheel: *See*—
- Roller skate wheel.

Wick for lighters. A. F. Reilly. 2,669,108, Feb. 16.
Wide-band modulation of frequency-stabilized oscillators. L. E. Norton. 2,669,693, Feb. 16.
Window cleaning mechanism. W. Narajowski. 2,668,975, Feb. 16.
Windrow turner, Plow-type. W. I. Miller. 2,669,085, Feb. 16.
Wire spring and wire spring structure. W. H. Neely and W. C. Sandor. 2,669,293, Feb. 16.
Work feeding mechanism for sewing machines. R. A. Hayes. 2,669,205, Feb. 16.
Work-jogging attachment for sewing machines. J. P. Enos. 2,669,202, Feb. 16.
Work return mechanism for rip saws. J. L. Smith. 2,669,263, Feb. 16.
Work stop or positioning means for forming and bending machines. G. A. Humphrey. 2,669,276, Feb. 16.
Worm gearing. P. H. Steiner. 2,669,128, Feb. 16.
Wrench: *See*—
- Sliding jaw screw jar wrench.

Wrench for threaded fittings, Cup-shaped. E. Rausch. 2,669,144, Feb. 16.
Wrench having inner jaw actuated by pivotal handle, Adjustable. E. E. Florence. 2,669,146, Feb. 16.
Wrench having jaw-face extensions on offset shank, Rigid-jaw. W. M. Koenig. 2,669,147, Feb. 16.
Wringer head for washing machines. W. B. Beuscher. 2,669,110, Feb. 16.
X-ray thickness gauge. W. N. Lundahl and R. L. Wright. 2,669,662, Feb. 16.
Yarn carrier and tube for knitting machines. F. Scarborough, Sr. 2,669,103, Feb. 16.

CLASSIFICATION OF PATENTS

ISSUED FEBRUARY 16, 1954

NOTE.—First number = class, second number = subclass, third number = patent number

1— 170: 2,668,950
2— 8: 2,668,951
13: 2,668,952
28: 2,668,953
42: 2,668,954
74: 2,668,955
132: 2,668,956
227: 2,668,957
237: 2,668,958
3— 12.6: 2,668,959
4— 57: 2,668,960
67: 2,668,961
287: 2,668,962
5— 319: 2,668,963
327: 2,668,964
8— 17: 2,669,502
102: 2,669,503
9— 24: 2,668,965
10— 27: 2,668,966
12— 12.4: 2,668,967
15— 28: 2,668,968
119: 2,668,969
120: 2,668,970
145: 2,668,971
172: 2,668,972
176: 2,668,973
210: 2,668,974
220: 2,668,975
230: 2,668,976
257: 2,668,977
317: 2,668,978
368: 2,668,979
16— 1: 2,668,980
146: 2,668,981
162: 2,668,982
18— 2: 2,668,983
18: 2,668,984
30: 2,668,985
2,668,986
36: 2,668,987
47.5: 2,668,988
19— 36: 2,668,989
20— 52.2: 2,668,990
75: 2,668,991
91: 2,668,992
21— 120: 2,668,993
22— 79: 2,668,994
23— 230: 2,669,504
270.5: 2,669,505
288: 2,669,506
24— 81: 2,668,995
158: 2,668,996
205.17: 2,668,997
217: 2,668,998
25— 121: 2,668,999
131: 2,669,000
28— 72: 2,669,001
76: 2,669,002
78: 2,669,003
29— 25.3: 2,669,004
43: 2,669,005
49: 2,669,006
103: 2,669,007
148: 2,669,008
148.2: 2,669,009
2,669,010
157.1: 2,669,011
157.3: 2,669,012
284: 2,669,013
2,669,014
367: 2,669,015
30— 41.5: 2,669,016
62: 2,669,017
129: 2,669,018
332: 2,669,019
31— 12: 2,669,020
32— 2: 2,669,021
33— 27: 2,669,022
46: 2,669,023
2,669,024
77: 2,669,025
161: 2,669,026
174: 2,669,027
179.5: 2,669,028
206: 2,669,029
34— 69: 2,669,030
155: 2,669,031
174: 2,669,032
35— 10.4: 2,669,033
48: 2,669,034
36— 7.3: 2,669,035
11.5: 2,669,036
36: 2,669,037
38: 2,669,038
37— 92: 2,669,039
98: 2,669,040
104: 2,669,041
115: 2,669,042
126: 2,669,043
38— 5: 2,669,044
11: 2,669,045
60: 2,669,046
40— 2: 2,669,047
41— 9: 2,669,048
15: 2,669,049
42— 70: 2,669,050
71: 2,669,051
76: 2,669,052
43— 36: 2,669,053
43.11: 2,669,054
53.5: 2,669,055
79: 2,669,056
44— 70: 2,669,507
45— 24: 2,669,057
58: 2,669,058
46— 8: 2,669,059
20: 2,669,060
39: 2,669,061
88: 2,669,062
119: 2,669,063
120: 2,669,064
47— 37: 2,669,065
58: 2,669,066
2,669,067
61: Pl.Pt.1, 251
Pl.Pt.1, 252
Pl.Pt.1, 253
Pl.Pt.1, 254
Pl.Pt.1, 255
62: Pl.Pt.1, 256
Pl.Pt.1, 257
48— 180: 2,669,508
206: 2,669,509
49— 47: 2,669,068
2,669,069
2,669,070
50— 26: 2,669,071
51— 50: 2,669,072
67: 2,669,073
105: 2,669,074
145: 2,669,075
53— 91: 2,669,076
92: 2,669,077
55— 118: 2,669,078
2,669,079
56— 44: 2,669,080
47: 2,669,081
185: 2,669,082
294: 2,669,083
295: 2,669,084
370: 2,669,085
400.08: 2,669,086
58— 1: 2,669,087
26: 2,669,088
121: 2,669,089
60— 13: 2,669,090
39.05: 2,669,091
39.16: 2,669,092
39.28: 2,669,093
2,669,094
52: 2,669,095
54.5: 2,669,096
61— 15: 2,669,097
62—117.1: 2,669,098
126: 2,669,099
136: 2,669,100
2,669,101
63— 14: 2,669,102
66— 126: 2,669,103
135: 2,669,104
163: 2,669,105
166: 2,669,106
2,669,107
67— 70: 2,669,108
68— 200: 2,669,109
68— 255: 2,669,110
69— 41: 2,669,111
42: 2,669,112
70— 456: 2,669,113
71— 64: 2,669,510
72— 32: 2,669,114
102: 2,669,115
107: 2,669,116
135: 2,669,117
73— 32: 2,669,118
66: Re.23,784
Re.23,785
100: 2,669,119
147: 2,669,120
194: 2,669,121
302: 2,669,122
317: 2,669,123
388: 2,669,124
402: 2,669,125
74— 5.6: 2,669,126
231: 2,669,127
458: 2,669,128
522: 2,669,129
574: 2,669,130
730: 2,669,131
770: 2,669,132
75— 43: 2,669,511
173: 2,669,512
177: 2,669,513
2,669,514
76— 104: 2,669,133
77— 2: 2,669,134
5: 2,669,135
28: 2,669,136
78— 22: 2,669,137
82: 2,669,138
80— 6: 2,669,139
53: 2,669,140
81— 3.42: 2,669,141
2,669,142
3.46: 2,669,143
65: 2,669,144
84: 2,669,145
91: 2,669,146
119: 2,669,147
124.1: 2,669,148
82— 37: 2,669,149
84— 93: 2,669,150
317: 2,669,151
395: 2,669,152
85— 8.3: 2,669,153
88— 1: 2,669,154
23: 2,669,155
26: 2,669,156
28: 2,669,157
39: 2,669,158
77: 2,669,159
89— 33: 2,669,160
90— 13: 2,669,161
17: 2,669,162
24: 2,669,163
33: 2,669,164
92— 20: 2,669,165
40: 2,669,166
93— 49: 2,669,167
95— 7: 2,669,515
8: 2,669,516
13: 2,669,168
44: 2,669,169
88: 2,669,517
97—46.33: 2,669,170
53: 2,669,171
180: 2,669,172
215: 2,669,173
237: 2,669,174
98— 1.5: 2,669,175
99— 113: 2,669,518
131: 2,669,519
160: 2,669,520
270: 2,669,176
101— 90: 2,669,177
93: 2,669,178
352: 2,669,179
408: 2,669,180
102— 37.4: 2,669,181
66: 2,669,182
103— 1: 2,669,183
4: 2,669,184
103— 38: 2,669,185
53: 2,669,186
87: 2,669,187
96: 2,669,188
120: 2,669,189
179: 2,669,190
105— 253: 2,669,191
375: 2,669,192
422: 2,669,193
106— 15: 2,669,521
123: 2,669,522
213: 2,669,523
271: 2,669,524
278: 2,669,525
285: 2,669,526
107— 48: 2,669,194
54: 2,669,195
58: 2,669,196
108— 30: 2,669,197
109— 59: 2,669,198
110— 18: 2,669,199
29: 2,669,200
112— 11: 2,669,201
77: 2,669,202
134: 2,669,203
158: 2,669,204
209: 2,669,205
214: 2,669,206
218: 2,669,207
221: 2,669,208
113— 44: 2,669,209
114— .5: 2,669,210
116— 26: 2,669,211
52: 2,669,212
114: 2,669,213
115.5: 2,669,214
136.5: 2,669,215
117— 10: 2,669,527
37: 2,669,528
62: 2,669,529
118— 52: 2,669,216
63: 2,669,217
119— 57: 2,669,218
61: 2,669,219
81: 2,669,220
153: 2,669,221
120— 21: 2,669,222
50: 2,669,223
109: 2,669,224
109.5: 2,669,225
121— 39: 2,669,226
123— 55: 2,669,227
90: 2,669,228
108: 2,669,229
127— 60: 2,669,530
128— 173: 2,669,230
214: 2,669,231
249: 2,669,232
251: 2,669,233
252: 2,669,234
283: 2,669,235
129— 28: 2,669,236
2,669,237
131— 11: 2,669,238
132— 48: 2,669,239
134— 30: 2,669,531
95: 2,669,240
133: 2,669,241
166: 2,669,242
167: 2,669,243
135— 51: 2,669,244
136— 4: 2,669,593
6: 2,669,594
30: 2,669,595
91: 2,669,596
100: 2,669,597
122: 2,669,598
145: 2,669,599
137— 81: 2,669,245
82: 2,669,246
84: 2,669,247
87: 2,669,248
115: 2,669,249
267: 2,669,250
353: 2,669,251
472: 2,669,252
525: 2,669,253
548: 2,669,254
137— 607: 2,669,255
620: 2,669,256
699: 2,669,257
138— 55: 2,669,258
139— 208: 2,669,259
232: 2,669,260
143— 19: 2,669,261
47: 2,669,262
157: 2,669,263
159: 2,669,264
144— 129: 2,669,265
208: 2,669,266
145— 31: 2,669,267
146— 8: 2,669,268
73: 2,669,269
2,669,270
107: 2,669,271
148— 6.14: 2,669,532
11.5: 2,669,533
2,669,534
150— 1: 2,669,272
1.6: 2,669,273
152— 223: 2,669,274
153— 1: 2,669,275
21: 2,669,276
54: 2,669,277
73: 2,669,278
154— 1.6: 2,669,279
4: 2,669,280
14: 2,669,281
33.05: 2,669,282
124: 2,669,535
155— 5.22: 2,669,283
14: 2,669,284
42: 2,669,285
63: 2,669,286
123: 2,669,287
134: 2,669,288
140: 2,669,289
179: 2,669,290
2,669,291
2,669,292
2,669,293
2,669,294
196: 2,669,295
158— 1.5: 2,669,296
4: 2,669,297
28: 2,669,298
36: 2,669,299
116: 2,669,300
160— 178: 2,669,301
164— 47: 2,669,302
115: 2,669,303
2,669,304
166— 12: 2,669,305
21: 2,669,306
2,669,307
167— 74: 2,669,536
2,669,537
170—135.24: 2,669,308
143: 2,669,309
160.16: 2,669,311
160.17: 2,699,312
160.2: 2,669,310
160.25: 2,669,313
174— 94: 2,669,600
152: 2,669,601
178— 2: 2,669,602
45: 2,669,603
69: 2,669,604
179— 1: 2,669,605
6.3: 2,669,606
8: 2,669,607
43.5: 2,669,608
171: 2,669,609
185: 2,669,610
180— 12: 2,669,314
71: 2,669,315
77: 2,669,316
89: 2,669,317
183— 4.4: 2,669,318
17: 2,669,319
42: 2,669,320
2,669,321
184— 13: 2,669,322
186— 1: 2,669,323
187— 29: 2,669,324
188— 1: 2,669,325
188— 71: 2,669,326
72: 2,669,327
78: 2,669,328
192— 3: 2,669,329
13: 2,669,330
17: 2,669,331
61: 2,669,332
87: 2,669,333
193— 36: 2,669,334
194— 10: 2,669,335
2,669,336
97: 2,669,337
196—14.46: 2,669,538
2,669,539
52: 2,669,540
198— 9: 2,669,338
16: 2,669,339
21: 2,669,340
34: 2,669,341
164: 2,669,342
219: 2,669,343
220: 2,669,344
200— 4: 2,669,611
2,669,612
6: 2,669,613
17: 2,669,614
18: 2,669,615
2,669,616
36: Re.23,783
61.25: 2,669,617
67: 2,669,618
80: 2,669,619
87: 2,669,620
91: 2,669,621
92: 2,669,622
108: 2,669,623
114: 2,669,624
115.5: 2,669,625
116: 2,669,626
2,669,627
150: 2,669,628
2,669,629
2,669,630
152: 2,669,631
163: 2,669,632
166: 2,669,633
201— 55: 2,669,634
63: 2,669,635
66: 2,669,636
202— 39.5: 2,669,541
203— 12: 2,669,345
67: 2,669,346
204— 93: 2,669,542
205— 20: 2,669,347
206— 16: 2,669,348
42: 2,669,349
45.21: 2,669,350
46: 2,669,351
74: 2,669,352
209— 95: 2,669,353
111: 2,669,354
166: 2,669,355
257: 2,669,358
210— 24: 2,669,713
55: 2,669,357
88: 2,669,358
183: 2,669,359
201: 2,669,360
211— 49: 2,669,361
58: 2,669,362
212— 77: 2,669,363
214— 1: 2,669,364
11: 2,669,365
83.34: 2,669,366
138: 2,669,367
522: 2,669,368
215— 41: 2,669,369
47: 2,669,370
219— 3: 2,669,637
4: 2,669,638
6: 2,669,639
10: 2,669,640
10.71: 2,669,647
19: 2,669,641
21: 2,669,642
25: 2,669,643
29: 2,669,644
35: 2,669,645

219— 46: 2,669,646
220— 26: 2,669,371
2,669,372
84: 2,669,373
223— 57: 2,669,374
68: 2,669,375
226— 39.6: 2,669,376
88.1: 2,669,377
97: 2,669,378
229— 1.5: 2,669,379
7: 2,669,380
77: 2,669,381
84: 2,669,382
230— 134: 2,669,383
138: 2,669,384
232— 42: 2,669,385
235— 61.5: 2,669,386
83: 2,669,387
92: 2,669,388
2,669,389
132: 2,669,390
236— 12: 2,669,391
237— 48: 2,669,392
69: 2,669,393
238— 189: 2,669,394
240— 2: 2,669,648
11.4: 2,669,649
52.15: 2,669,650
108: 2,669,651
241— 63: 2,669,395
89: 2,669,396
242— 35.5: 2,669,397
55: 2,669,398
125: 2,669,399
2,669,400
244— 82: 2,669,401
121: 2,669,402
155: 2,669,403
248— 23: 2,669,404
39: 2,669,405
94: 2,669,406
107: 2,669,407

248— 146: 2,669,408
154: 2,669,409
271: 2,669,410
353: 2,669,411
249— 22: 2,669,412
250— 27: 2,669,652
2,669,653
2,669,654
2,669,655
2,669,656
33.63: 2,669,657
2,669,658
36: 2,669,659
41.9: 2,669,660
43: 2,669,661
52: 2,669,662
211: 2,669,663
251— 2: 2,669,413
40: 2,669,414
45: 2,669,415
51: 2,669,416
78: 2,669,417
112: 2,669,418
123: 2,669,419
252— 35: 2,669,543
47: 2,669,544
61: 2,669,545
153: 2,669,546
448: 2,669,547
253— 39.1: 2,669,420
254— 2: 2,669,421
2,669,422
2.2: 2,669,423
93: 2,669,424
140: 2,669,425
164: 2,669,426
187: 2,669,427
255— 1.6: 2,669,428
2,669,429
2,669,430
2: 2,669,431
347: 2,669,432

256— 13.1: 2,669,433
59: 2,669,434
257— 192: 2,669,435
259— 2: 2,669,436
4: 2,669,437
9: 2,669,438
260— 23: 2,669,548
2,669,549
23.7: 2,669,550
29.4: 2,669,551
37: 2,669,552
41.5: 2,669,553
46: 2,669,554
78: 2,669,555
2,669,556
79.3: 2,669,557
88.7: 2,669,558
112: 2,669,559
139: 2,669,560
149: 2,669,561
210: 2,669,562
239.1: 2,669,563
293.4: 2,669,564
2,669,565
2,669,566
2,669,567
2,669,568
314.5: 2,669,569
326.5: 2,669,570
397.1: 2,669,571
406: 2,669,572
407: 2,669,573
456: 2,669,574
465: 2,669,575
467: 2,669,576
477: 2,669,577
479: 2,669,578
488: 2,669,579
521: 2,669,580
2,669,581
558: 2,669,582
559: 2,669,583

260— 580: 2,669,584
601: 2,669,585
604: 2,669,586
609: 2,669,587
619: 2,669,588
638: 2,669,589
653: 2,669,590
683.3: 2,669,591
756: 2,669,592
261— 121: 2,669,439
124: 2,669,440
262— 7: 2,669,441
263— 3: 2,669,442
19: 2,669,443
34: 2,669,444
266— 4: 2,669,445
30: 2,669,446
267— 1: 2,669,447
63: 2,669,448
70: 2,669,449
268— 104: 2,669,450
271— 2.3: 2,669,451
2,669,452
2.4: 2,669,453
49: 2,669,454
74: 2,669,455
273— 144: 2,669,456
274— 1: 2,669,457
279— 123: 2,669,458
280—11.35: 2,669,459
47.38: 2,669,460
103: 2,669,461
106: 2,669,462
277: 2,669,463
282— 25: 2,669,464
285— 16: 2,669,465
105: 2,669,466
138: 2,669,467
145: 2,669,468
158: 2,669,469
287— 52: 2,669,470
52.06: 2,669,471

291— 5: 2,669,472
292— 45: 2,669,473
169: 2,669,474
262: 2,669,475
308: 2,669,476
341.18: 2,669,477
294— 20: 2,669,478
117: 2,669,479
296— 23: 2,669,480
106: 2,669,481
299— 58: 2,669,482
78: 2,669,483
143: 2,669,484
301— 5.3: 2,669,485
9: 2,669,486
37: 2,669,487
302— 11: 2,669,488
303— 22: 2,669,489
304— 9: 2,669,490
307— 10: 2,669,664
308— 72: 2,669,491
79: 2,669,492
233: 2,669,493
309— 29: Re.23,782
310— 6: 2,669,665
8: 2,669,666
40: 2,669,667
104: 2,669,668
155: 2,669,669
168: 2,669,670
311— 17: 2,669,495
87: 2,669,494
110: 2,669,496
113: 2,669,497
312— 43: 2,669,498
322: 2,669,499
313— 70: 2,669,671
2,669,672
314— 75: 2,669,673
315— 3: 2,669,674
22: 2,669,675
59: 2,669,676

317— 142: 2,669,677
318— 24: 2,669,678
56: 2,669,679
57: 2,669,680
63: 2,669,681
92: 2,669,682
221: 2,669,683
252: 2,669,684
262: 2,669,685
471: 2,669,686
492: 2,669,687
324— 1: 2,669,688
2,669,689
10: 2,669,690
57: 2,669,691
158: 2,669,692
332— 19: 2,669,693
52: 2,669,694
333— 12: 2,669,695
22: 2,669,696
24: 2,669,697
2,669,698
336— 30: 2,669,699
90: 2,669,700
339— 59: 2,669,701
196: 2,669,702
340— 26: 2,669,703
81: 2,669,704
114: 2,669,705
164: 2,669,706
239: 2,669,707
367: 2,669,708
370: 2,669,709
343— 8: 2,669,710
13: 2,669,711
206: 2,669,712
346— 8: 2,669,500
68: 2,669,501

CLASSIFICATION OF DESIGNS

D 3—13: Des. 171,492
26: Des. 171,507
D 7— 5: Des. 171,476
D10— 8: Des. 171,485
Des. 171,486
D13— 1: Des. 171,479
D14— 6: Des. 171,496
D15— 1: Des. 171,493

D15— 1: Des. 171,494
Des. 171,506
8: Des. 171,521
D21— 1: Des. 171,484
6: Des. 171,491
D22— 3: Des. 171,522
D34— 5: Des. 171,483
D42— 7: Des. 171,478

D44—15: Des. 171,498
Des. 171,513
Des. 171,514
D45— 9: Des. 171,503
Des. 171,504
19: Des. 171,500
Des. 171,501
Des. 171,502

D45—19: Des. 171,518
Des. 171,519
D48— 2: Des. 171,517
20: Des. 171,487
Des. 171,488
Des. 171,489
Des. 171,490
Des. 171,512

D52— 3: Des. 171,495
D56— 1: Des. 171,508
4: Des. 171,511
D58—12: Des. 171,515
Des. 171,516
D61— 1: Des. 171,480
D62— 4: Des. 171,505
D71— 1: Des. 171,509

D74— 1: Des. 171,481
D80— 1: Des. 171,510
9: Des. 171,477
D83— 1: Des. 171,482
D87— 3: Des. 171,499
Des. 171,520
D90—20: Des. 171,497

U. S. GOVERNMENT PRINTING OFFICE: 0——1954

TRADE-MARKS

OFFICIAL GAZETTE, FEBRUARY 16, 1954

[VOL. 679. NO. 3]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 616,062. Spelrein Luggage Corporation, Brooklyn, N. Y. Filed July 3, 1951.

R·MOR·LITE

For Ladies' and Men's Traveling Bags, Hand Luggage, Wardrobe Suitcases, and Ladies' Overnight Cases.

Claims use since Aug. 7, 1950.

Ser. No. 640,463. Leathercraft Mfg. Company, Elmhurst and New York, N. Y. Filed Jan. 7, 1953.

CINERAMA

For Wallets.

Claims use since Dec. 15, 1952.

Ser. No. 643,220. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Filed Mar. 6, 1953.



Applicant claims ownership of Registrations Nos. 528,273, 557,627, and others.

For Billfolds, Key Cases, Traveling Bags, Brief Cases, Portfolios, Wallets, Pocketbooks, and Pocket Secretaries.

Claims use since Oct. 24, 1947.

Ser. No. 648,467. The Baltimore Luggage Co., Baltimore, Md. Filed June 9, 1953.



The pictorial representation of the goods is disclaimed, apart from the mark as shown.

For Ladies' and Men's Luggage—Namely, Weekend Cases, Overnight Cases, Pullman Cases, Train Cases, and Wardrobe Cases.

Claims use since Jan. 10, 1952.

Ser. No. 648,493. Anton Jankas, doing business under the style name of Tok-N-Pac Mfg. Co., Chicago, Ill. Filed June 9, 1953.

TOK-N-PAC

For Portable, Flexible Receptacles Having a Plurality of Pockets for Holding Tokens, Coins, and the Like.

Claims use since May 20, 1953.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 643,302. E. F. Drew & Co., Inc., New York, N. Y. Filed Mar. 9, 1953.

DREW-GLEEM

The word "Drew" is disclaimed apart from the mark for the purpose of registration only. Applicant claims ownership of Registrations Nos. 440,189, 550,583, and 548,564.

For Compositions for Protecting, Cleaning, and Polishing Metal Surfaces.

Claims use since Jan. 13, 1953.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 640,408. The Perolin Company, Inc., Dover, Del., and New York, N. Y. Filed Jan. 6, 1953.



Applicant claims ownership of Registrations Nos. 98,683 and 577,009.

For Chemical Compositions Having Active Components of a Non-Detergent Nature for Removing and Preventing Scale, Rust Formations, and Other Corrosion in Water Systems, Boilers, Steam Lines, Condensers, Pasteurizers, and Other Fluid Handling and Heat Transfer Systems; and Compositions for Destroying and Preventing Algae Growth in Water Circulating and Cooling Systems.

Claims use since Mar. 1, 1947.

CLASS 10

FERTILIZERS

Ser. No. 629,225. American Cyanamid Company, New York, N. Y. Filed May 6, 1952.

AEROCON

Applicant claims ownership of Registration No. 124,434.
For Soil Conditioner.
Claims use since Apr. 22, 1952.

Ser. No. 629,226. American Cyanamid Company, New York, N. Y. Filed May 6, 1952.

AEROTIL

Applicant claims ownership of Registrations Nos. 435,325 and 124,434.
For Soil Conditioner.
Claims use since Apr. 22, 1952.

Ser. No. 644,245. Missouri Farmers Association, Inc., Columbia, Mo. Filed Mar. 26, 1953. COLLECTIVE MARK.



The drawing is lined for red and blue.
For Fertilizers, Plant Foods, and Soil Conditioners.
Claims use since Nov. 1, 1929.

Ser. No. 646,751. Ferro Corporation, Cleveland, Ohio. Filed May 11, 1953.



For Friable Glasslike Substances in Finely Divided Form Containing Essential Plant Foods for Use as a Fertilizer.
Claims use since Aug. 15, 1952

Ser. No. 649,663. Dr. P. Phillips Fertilizers Inc., Orlando, Fla. Filed July 1, 1953. (Sec. 2f.)

GROVE TESTED

Applicant claims ownership of Registration No. 516,130.
For Fertilizers Composed of Phosphate, Potash, Magnesium, and Other Organics.
Claims use since Aug. 3, 1947.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 635,153. Supersonic Chemical Laboratories, Inc., Shreve, Ohio. Filed Sept. 11, 1952.



For Plastic Sealer, for Masonry, Wood, and Paper for Making Said Goods Acid-Proof, Waterproof, and the Like.
Claims use since November 1951.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 638,343. Air Industries Company, Inc., Columbus, Ohio. Filed Nov. 20, 1952.



For Valves—Namely, Shut-Off Valves Responsive to the Level of Liquid Therein, Valves for Draining Moisture From Compressed Air Tanks, and Check Valves.
Claims use since Aug. 1, 1952.

Ser. No. 641,176. Crown Metal Manufacturing Company, Chicago, Ill. Filed Jan. 23, 1953.



For Brackets for Supporting and Displaying Merchandise and Adapted To Be Mounted on a Supporting Surface.
Claims use since Nov. 15, 1952.

Ser. No. 645,154. The Kaymet Company, London, England. Filed Apr. 13, 1953.



No claim is made to the words "Anodised Ware" and "London" apart from the mark as a whole. Applicant claims ownership of British Registration No. 687,077, dated Mar. 8, 1950.
For Aluminium Ware—Namely, Tea Trays, Coffee Trays, Sandwich Trays, Fruit Bowls, Fruit Dishes, Vases, Plant Bowls, Melba Dishes, Grapefruit Cups, Ice Cream or Sundae Cups, Revolving Cake Stands, Hors d'Oeuvres Dishes, Casserole Holders, Serviette Rings, Finger Bowls, Tumbler Holders, Cocktail Shakers, Goblets, Salvers, Whisky Trays, Fruit Sets Comprised of a Large Bowl and a Number of Individual Bowls, and Bed Trays.
Claims use since October 1945; and use in commerce between Great Britain and the United States since February 1947, except on bed trays.

Ser. No. 651,446. Garden City Plating & Mfg. Co., Chicago, Ill. Filed Aug. 6, 1953.

ADAPT-A-WALL

For Components and Fittings for Construction of Convertible Merchandise Display Fixtures—Namely, Slotted Pilaster Standards; Levelers for Standards; Shelf Brackets and Clips Therefor; Cornice Brackets; Hang Rails and Sockets Therefor; Brackets for Supporting Hang Rails; Cross Bars and Mounting Clips Therefor; Merchandise Display Fittings—Namely, Bars, Hangers, and Racks and Sign Holders Therefor.
Claims use since on or about May 29, 1953.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 651,858. Owens Manufacturing Co., Inc., Syracuse, N. Y., assignor to Mark-Ette Products Corp., Syracuse, N. Y., a corporation of New York. Filed Aug. 14, 1953.

Soltape

For Solder.
Claims use since Dec. 13, 1952.

Ser. No. 652,019. The International Nickel Company, Inc., New York, N. Y. Filed Aug. 19, 1953.

INCONEL "M"

Applicant claims ownership of Registration No. 308,260.
For Nickel Alloys and Alloys of Nickel, Chromium, and Iron.
Claims use since June 19, 1953.

Ser. No. 652,020. The International Nickel Company, Inc., New York, N. Y. Filed Aug. 19, 1953.



Applicant claims ownership of Registration No. 509,009.
For Nickel Alloys and Alloys of Nickel, Chromium, and Iron.
Claims use since June 19, 1953.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 607,709. Magic Chemical Company, Brockton, Mass. Filed Dec. 15, 1950.

Magicvulc

For Anti-Corrosive and Anti-Abrasive Plastic Rubber Coating Compounds; Liquid Rubber Coating Compositions; and Primers Therefor for Application to Wood, Metal, Glass, Cement, and Similar Surfaces.
Claims use since Aug. 1, 1950.

Ser. No. 619,335. Elektrik Seal Laboratories, Inc., Chicago, Ill. Filed Sept. 28, 1951.

elek-trik

For Surface Coating Composition for Coating the Ignition Systems of Internal Combustion Engines for Automotive Vehicles Including Passenger Cars, Tractors, Trucks, Boats, and Airplanes, and the Like, To Prevent Oxidation and Corrosion of Such Ignition Systems and To Render Them Moisture-Resistant.
Claims use since Mar. 4, 1950.

Ser. No. 637,560. Western Research & Laboratories Company, Elyria, Ohio. Filed Apr. 25, 1952.

POLARFLEX

For Dip Applied, Thermostatic, Strippable Coating Compound for the Prevention of Rust and Abrasion on Metal Parts, Which Coating Retains Its Flexibility and Will Not Fracture Upon Jarring at Sub-Zero Temperatures.
Claims use since Jan. 30, 1952.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 651,637. Adolphus Brooks, East Liverpool, Ohio. Filed Aug. 11, 1953.

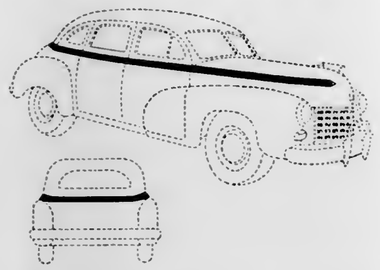
DA-MAH

For Chemical Preparation for Treatment of Corns and Callouses.
Claims use since May 20, 1953.

CLASS 19

VEHICLES

Ser. No. 575,838. Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Filed Mar. 22, 1949.



The mark comprises a checkered band substantially encircling the vehicle near the upper edge of the main body portion where it joins the top portion. The representation of a vehicle is disclaimed. Applicant claims ownership of Registrations Nos. 271,085 and 277,584.

For Automobiles Commonly Employed as Taxicabs.

Claims use since Jan. 1, 1921.

Ser. No. 634,519. Carrozzeria Pinin Farina, Turin, Italy. Filed Aug. 27, 1952.



farina

The surname "Farina" is disclaimed apart from the mark shown on the drawing.

For Automobile Bodies.

Claims use since Jan. 1, 1930; and use in commerce between foreign nations and the United States since Apr. 21, 1948.

Ser. No. 638,349. City Road Engineering Works Limited, London, England. Filed Nov. 20, 1952.



Applicant claims ownership of British Registration No. B677,092, dated Feb. 15, 1949.

For Bicycles, Motor Cycles, and Parts Thereof.

Claims use since Nov. 4, 1949; and use in commerce between foreign nations and the United States since Nov. 4, 1949.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 607,860. Landers, Frary & Clark, New Britain, Conn. Filed Dec. 19, 1950.

COFFEEMATIC

For Electric Coffee Makers.

Claims use since September 1941.

Ser. No. 642,533. Electronic Heating Corp., Newton, Mass. Filed Feb. 20, 1953.

RAYBOND

For High Frequency Electronic Machine To Bond and Glue Pieces of Wood Together by Heat.

Claims use since on or about November 1947.

Ser. No. 645,960. Cummins-Chicago Corp., Chicago, Ill. Filed Apr. 27, 1953.

BALL ● RITE

For Portable Electric Drills.

Claims use since July 29, 1952.

Ser. No. 645,961. Cummins-Chicago Corp., Chicago, Ill. Filed Apr. 27, 1953.

FIXMASTER

For Power Tool Kits Including Portable Hand-Operated Electric Drill Sets and Attachments Therefor for Drilling, Sawing, Grinding, Polishing, and Allied Operations.

Claims use since July 28, 1952.

Ser. No. 645,962. Cummins-Chicago Corp., Chicago, Ill. Filed Apr. 27, 1953.

PERM-ALIGN

For Portable Hand Operated Electric Drill Sets and Attachments Therefor for Performing Drilling, Grinding, Polishing, Sanding, and Allied Operations.

Claims use since May 26, 1952.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 633,199. Francis C. Miller, doing business as The Gamecraft Company, Red Lion, Pa. Filed July 29, 1952.

FACE-OFF

For Board Game, Played With Pieces Movable Upon a Board by Actuators Manipulated by the Players.

Claims use since Dec. 20, 1951.

Ser. No. 636,691. The Creek Chub Bait Company, Garrett, Ind. Filed Oct. 16, 1952. (Sec. 2f.)

DARTER

Applicant claims ownership of Registration No. 291,671.

For Artificial Fish Baits.

Claims use since July 1926.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 561,474. Master Vibrator Company, Dayton, Ohio. Filed July 15, 1948.

TURN-A-TROWEL

In the mark, the word "Trowel" is disclaimed apart from its use in the mark as shown.

For Power Operated Cement Finishing Machines.

Claims use since July 22, 1947.

Ser. No. 562,000. American Air Filter Company, Inc., Louisville, Ky. Filed July 23, 1948.

ROTO-CLONE

Applicant claims ownership of Registration No. 369,644.

For Centrifugal Dust Separators (*a*) of the Dynamic Precipitator Type Wherein a Blower Creates an Air Flow and Separates the Dust Therefrom, and (*b*) of the Hydrostatic Precipitator Type Wherein the Air Stream Propels a Continuous Stream of Water From a Liquid Bath Through the Air Cleaning Passage Back Into the Bath.

Claims use since June 14, 1933.

Ser. No. 564,983. American Machine and Foundry Company, New York, N. Y. Filed Sept. 11, 1948. (Sec. 2f.)

NEW MODE

For Slip Stitching Machines, Under and Over Stitching Machines, Neck Tie Sewing Machinery, and Parts Thereof.

Claims use since on or about June 1, 1937.

Ser. No. 568,821. Whiting Corporation, Harvey, Ill. Filed Nov. 15, 1948. (Sec. 2f.)

VARI-PRESSURE DRIVE

The words "Pressure Drive" are disclaimed apart from the mark.

For Motor Drives and Parts Thereof for Overhead Mono-Rail Carriers and Cranes and the Like.

Claims use since Mar. 2, 1942.

Ser. No. 570,441. Masson Seeley and Company Limited, Westminster, London, England. Filed Dec. 13, 1948.

MASSEELEY

Applicant claims ownership of United States Registration No. 192,000.

For Cutter-Crush Machines (Being Machines for Cutting Out Letters and Designs From Coloured Paper, Etc. and Embossing Such Cut-Outs Into a Backing), Embossing Machines, and Pressing Machines (Being Machines for Carrying Out Embossing and Colour-Transfer Marking Processes); Parts of Such Machines; and Type and Dies With or Without a Cutting Edge for Use in Such Machines.

Claims use since June 22, 1922; and first used in commerce between foreign nations and the United States in 1925.

Ser. No. 584,198. John D. Johnson, doing business as Air Engineering Company, Battle Creek, Mich. Filed Aug. 29, 1949.

SILENT-FLEX

No claim is made to the exclusive right to use "Flex" apart from in the combination shown in the drawing.

For Air Compressor Valves.

Claims use since Mar. 24, 1949.

Ser. No. 608,192. Kalker Trieurfabrik und Fabrik Gelochter Bleche, Mayer & Cie., Koln, Germany. Filed Sept. 9, 1950.

Vibraklon

Priority under Sec. 44(d). German application filed Mar. 11, 1950, Registration No. 603,554, dated Dec. 21, 1950.

For Automatic Sorting, Sifting, Cleaning, and Aerating Apparatus for Use in Raw and Basic Materials Industries—Namely, in the Chemical Industry, in the Food and Nutrition Industry, in the Mining, Smelting, and Metallurgical Industries, for Sorting, Sifting, Cleaning, Separating, and Aerating Raw Materials, and for Housekeeping and Farming Purposes in Separating Dust and for Separating, Cleaning, and Aerating Seeds and Other Raw Materials, and for Milling and Seed-Cleaning Machines.

Ser. No. 619,520. Randall Graphite Bearings, Inc., Lima, Ohio. Filed Oct. 2, 1951.

"DEEP WELL"

For Ball Assemblies for Pillow Blocks.

Claims use since Dec. 6, 1950.

Ser. No. 622,048. David M. Williams, Hollywood, Calif. Filed Dec. 3, 1951.

"CARBINE" WILLIAMS

For Razor Blades.

Claims use since Nov. 15, 1951.

Ser. No. 632,964. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey. Filed July 23, 1952. (Sec. 2f.)

GERRARD

Applicant claims ownership of Registration No. 388,951.

For Flat Band Steel Strapping Dispensing Units Comprising a Framework Containing Rollers for Supporting a Coil of Such Strapping and Mechanical Means for Revolving the Coil and Paying Out Strapping as Required, Machines for Applying and Fastening Steel Strapping, Strapping Machine Suspensions, Wire Straightening Machines, and Wire Cutters.

Claims use since Aug. 1, 1917.

Ser. No. 644,028. Gopher Grinders, Inc., Anoka, Minn. Filed Mar. 23, 1953.

ZEPHYR

For Continuous Slicing Bands for Cutting Bread.
Claims use since Nov. 7, 1949.

Ser. No. 644,134. Ch. J. Neuman Limited, South Croydon, Surrey, England. Filed Mar. 24, 1953.

NUBREX

Applicant claims ownership of British Registrations Nos. 640,884 and 640,885, dated Oct. 15, 1945.
For Grease Guns.

Ser. No. 646,160. Onsrud Machine Works, Inc., Chicago, Ill. Filed Apr. 29, 1953.

INVOMIL

For Profile or Contour Milling Machines and Universal Routing Machines.
Claims use since Dec. 28, 1951.

Ser. No. 649,633. Clark Equipment Company, Buchanan, Mich. Filed July 1, 1953. (Sec. 2f.)

ROSS

For Power-Operated Industrial Lift Trucks and Straddle Carriers.
Claims use since February 1915.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 604,350. G. H. Bishop Company, Chicago, Ill. Filed Oct. 3, 1950. (Sec. 2f.)

BISHOP

For Laundry Appliances—Namely, Automatic Starch Band Starchers, Starch Cookers, Starch Tables, Starch Dipping Tables, Shirt Tables, Marking-In Tables, Wet-Cleaning Tables, Ironing Boards, Spotting Boards, Shirt Folding Boards, Shirt Folding Devices, Puffers, Dippers, Sprinklers, Steam Tippers, Sorting Reels, Revolving Laundry Sorters, Portable Laundry Sorting Racks, Automatic Starch Tubs, Spotting Tubs, Cuff and Pocket Brushing Machines, Filter Powder Injectors, Shirt Hangers, Laundry Assembly Racks, Bag and Net Holders, Combined Clothes Hanger, Invoice Desk and Bag Storage Racks, Seam Dampeners, Spray Guns, Drum Cradles, Electric Collar Edgers and Hot Tube Collar Shapers, Truck Tubs, Shirt Bins, Shirt Sorting Bins, and Reversible Bins.
Claims use since 1893.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 631,845. The Brearley Company, Rockford, Ill. Filed June 27, 1952.

LINE-O-SITE

For Weight Indicator Sighting Device for Bathroom Scales.
Claims use since Feb. 27, 1952.

Ser. No. 637,140. Optische Werke C. A. Steinheil Sohne G. m. b. H., Munich, Germany. Filed Oct. 24, 1952.

Cassaron

For Photographic and Other Objectives, Oculars, Telescopes, Field Glasses, Photographic Cameras, Spectrographs, Optical Lenses for Television, Projectors, and Optical Vitreous Goods—Namely, Lenses and Objectives, Coated With Interference Layers for the Purpose of Diminishing or Increasing Reflections From the Surfaces Thereof, and for the Purpose of Filtering or Transmitting Heat.
Claims use since Nov. 9, 1951; and use in commerce between foreign nations and the United States since Nov. 9, 1951.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 606,030. The New York Association for the Blind, Inc., New York, N. Y. Filed Nov. 7, 1950. (Sec. 2f.)

BOURNE

For Mops.
Claims use since in or about 1925.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 621,780. Cleveland Ceramics Corporation, Cleveland, Ohio, assignee of Phil-Mar Corporation. Filed Nov. 28, 1951.

moderamics

For Ceramic Artware—Namely, Ceramic Bowls and Planters (That Is Vases or Bowls for Plants).
Claims use since Oct. 12, 1951.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 650,308. The Imperial Brass Manufacturing Company, Chicago, Ill. Filed July 15, 1953.

Sahara

For Driers Employed in Refrigeration Systems.
Claims use since June 8, 1953.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 623,378. Strat-O-Lounger, Inc., Chicago, Ill., assignor to Stratford Furniture Corporation, Chicago, Ill., a corporation of Delaware. Filed Jan. 9, 1952.

Strat-o-lounger

For Chairs.
Claims use since Jan. 2, 1952.

Ser. No. 639,476. The Kerr Wire Products Co., Chicago, Ill. Filed Dec. 15, 1952.



For Metal Display Stands, Racks, and Shelves.
Claims use since Mar. 10, 1952.

Ser. No. 641,528. Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Filed Jan. 29, 1953.

LuBar

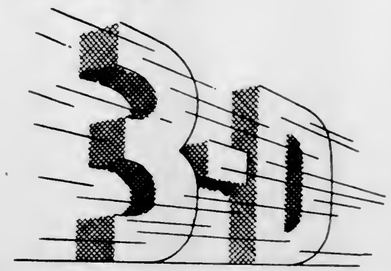
For Storage and Display Cabinet for Lubricating Oil.
Claims use since Dec. 30, 1952.

Ser. No. 647,661. Shwayder Brothers, Inc., Ecorse, Mich. Filed May 25, 1953.

Tray-ble

The lining represents grey and black. The word "Tray" is disclaimed apart from the mark.
For Combination Coffee Table and Tray.
Claims use since Jan. 19, 1953.

Ser. No. 647,917. Douglas Furniture Corporation, Chicago, Ill. Filed May 29, 1953.



The crossed lining is for shading purposes only while the convergent broken lines are for denoting motion.
For Kitchen and Dinette Tables and Chairs.
Claims use since Feb. 2, 1953.

Ser. No. 651,336. Gruber Industries, Inc., Royersford, Pa. Filed Aug. 4, 1953.

BUMBLE SEAT

The word "Seat" is disclaimed apart from the trademark as shown.
For Portable Beach Chairs.
Claims use since July 16, 1953.

Ser. No. 651,421. Storkline Furniture Corporation, Chicago, Ill. Filed Aug. 5, 1953.



Applicant claims ownership of Registrations Nos. 1[illegible],237, 283,608, and others.
For Infants', Nursery, and Juvenile Furniture—Namely, Baby Swing Chairs, Bassinets, Bedroom Tables, Beds, Bookcases, Chests, Chests of Drawers, Chiffonrobes, Costumers, Cribs, Dressing Tables, Dressing Table and Folding Bathtub Combinations, Floor Screens, Folding Tables, Highchairs, Musical Rockers, Nursery Chairs, Nursery (Toilet) Chairs, Play Pens, Secretaries, Stands, Step-Ups, Table and Chair Sets, Wardrobe Chests, and Youth Beds.
Claims use since 1919.

Ser. No. 651,537. Re-Ly-On Products Company, Pittsburgh, Pa. Filed Aug. 7, 1953.

DAV-O-NITER

For Sofa Which Opens To Expose an Inner Spring Mattress for Sleeping.
Claims use since March 1952.

Ser. No. 651,896. Chautauqua Cabinet Company, doing business under the name Kling Factories, Mayville, N. Y. Filed Aug. 17, 1953.

Cherrywick

For Bedroom Furniture—Namely, Dressers, Chests, Vanities, Beds, Chests on Chests, Desks, Chest Desks, Chest Robes, Highboys, Lowboys, Night Tables, Chairs, Stools, and Benches.
Claims use since July 15, 1953.

Ser. No. 651,899. Chautauqua Cabinet Company, doing business under the name Kling Factories, Mayville, N. Y. Filed Aug. 17, 1953.

OLDE
ORCHARDE

For Bedroom Furniture—Namely, Dressers, Chests, Vanities, Beds, Chests on Chests, Desks, Chest Desks, Chest Robes, Highboys, Lowboys, Night Tables, Chairs, Stools, and Benches.
Claims use since July 15, 1953.

Ser. No. 653,084. The Staffin Johns Co., Inc., New York, N. Y. Filed Sept. 11, 1953.

DURAPEDIC

For Mattresses.
Claims use since Apr. 7, 1953.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 651,049. Hirschman-Pohle Company, Inc., Le Roy, N. Y. Filed July 29, 1953.

FIRMA

Applicant claims ownership of Registration No. 290,838.
For Roof Ventilators.
Claims use since on or about Jan. 4, 1928.

Ser. No. 651,163. The Ebco Manufacturing Company, Columbus, Ohio. Filed July 31, 1953.

EBCO

Applicant claims ownership of Registration No. 190,125.
For Electrically Actuated Air-Drying Machines for Removing Moisture From the Atmosphere by Condensation.
Claims use since July 1949.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 616,469. Friction Products and Manufacturing Co., Portland, Oreg. Filed July 9, 1951.

Hi-Ball

Applicant claims ownership of Registration No. 246,916.
For Friction Blocks, Edger Pin Stock, Saw Guides, Asbestos or Frictional Lining Material Used in Saw Guides To Maintain Cutting Position, Automotive and Industrial Brake Linings, Friction Segments Used in Slipping and Holding Clutches and Asbestos Friction Drive Rings.
Claims use since July 1, 1927.

Ser. No. 646,487. The Premier Autoware Company, Cleveland, Ohio. Filed May 5, 1953. (Sec. 2f as to the word "Autoware.")

AUTOWARE

Applicant claims ownership of Registration No. 571,424.
For Automotive Parts and Supplies—Namely, Gaskets—Namely, Axle Gaskets, Cowl Vent Gaskets, Cylinder Head Gaskets, Differential Assembly Gaskets, Muffler and Tail Pipe Gaskets, Fuel Pump Gaskets, Manifold Gaskets, Oil Pan Gaskets; Rubber Hose and Tubing; Oil and Grease Retainer Seals; and Shims.
Claims use since Sept. 1, 1951, as shown; and since Jan. 1, 1946, as to the word "Autoware."

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 640,645. Opus, Ltd., New York, N. Y. Filed Jan. 12, 1953.

Opus

For Grooved Phonograph Records.
Claims use since Dec. 30, 1952.

Ser. No. 647,816. Star Time Production Corporation, New York, N. Y. Filed May 27, 1953.

Star Time

For Trumpets.
Claims use since May 4, 1953.

Ser. No. 651,252. International Accordion Manufacturing Company, East Detroit, Mich. Filed Aug. 3, 1953.

TRIO

For Accordions.
Claims use since on or about July 24, 1952.

CLASS 37

PAPER AND STATIONERY

Ser. No. 603,401. Coast Envelope Company, Los Angeles, Calif. Filed Sept. 11, 1950.

DURA-GRIP

The word "Grip" is disclaimed apart from the mark as shown.
For Check Book Covers and Binder Clips for Fillers Therefor Sold as a Unit.
Claims use since Feb. 1, 1950.

Ser. No. 622,754. The Reynolds & Reynolds Company, Dayton, Ohio. Filed Dec. 21, 1951.

DSA

Applicant claims ownership of Registration No. 297,941.
For Accounting Forms, Blanks, Sheets, Leaves, Auxiliary Records, Indexes and Binders for Use in Accounting Systems, Including Journal, Ledger, and Record Leaves; Commission and Salary Reports, File and Summary Envelopes and Reports, Vouchers, Invoices, Register Sales Slips, Time Tickets, Repair Orders, Financial Statements, Analysis and Trial Balance Sheets, Receipts, Purchase Orders, Requisitions, Receiving Reports, and Credit Memorandums for Use in Accounting Systems and Sheets and Forms for Use in Manuals, for Such Accounting Systems.
Claims use since December 1929.

Ser. No. 627,486. Milton Bradley Company, Springfield, Mass. Filed Apr. 3, 1952.

BULL'S EYE

For Sheets of Paper of Assorted Colors for Use in Making Water Color Pictures and Posters, and Cutting Into Various Shapes.
Claims use since Jan. 10, 1913.

Ser. No. 638,376. Sales Tools, Inc., Chicago, Ill. Filed Nov. 20, 1952.

DISPLAYMASTER

For Combined Loose Leaf Binder and Display Stand.
Claims use since Sept. 28, 1947.

Ser. No. 639,502. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

For Albums, Rubber Bands, Looseleaf Binders, Calendar and Memo Pads, Cleansing Tissues, Crayons, Desk Sets—Namely, Pen and Pencil Sets and Desk Pads, Blotter Holders and Letter Opener Sets, Correspondence Envelopes, Rubber Erasers, Ink Wells, Lead Pencils, Paper Napkins, Letter Openers, Paper Weights, Blotting Paper, Typewriter Paper, Mechanical Pencils, Pens, Fountain Pens, Paper Tablets, Paper Towels, Paper Handkerchiefs, Gift Wrapping Paper, Writing Paper, Toilet Paper, and Wax Paper.
Claims use since 1867.

Ser. No. 639,519. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

For Albums, Rubber Bands, Looseleaf Binders, Calendar and Memo Pads, Cleansing Tissue, Crayons, Desk Sets—Namely, Pen and Pencil Sets and Desk Pads, Blotter Holders and Letter Opener Sets, Correspondence Envelopes, Rubber Erasers, Ink Wells, Lead Pencils, Paper Napkins, Letter Openers, Paper Weights, Blotting Paper, Typewriter Paper, Mechanical Pencils, Pens, Fountain Pens, Paper Tablets, Paper Towels, Paper Handkerchiefs, Gift Wrapping Paper, Writing Paper, Toilet Paper, and Wax Paper.
Claims use since 1932.

Ser. No. 642,809. Fraser Paper, Limited, Madawaska, Maine. Filed Feb. 26, 1953.



Applicant disclaims the surname "Fraser" and the words "Symbolizing Progress" apart from the mark as shown. The picture of the man shown in the accompanying drawing is fanciful.
For Check and Bond Papers; Bleached and Unbleached Sulphate and Sulphite Specialty Papers—Namely, Bond, Ledger, Manifold, Fanfold, Register, Drinking Straw, Wax, Gift Wrap, Offset, Envelope, Tablet, and Opaque Circular Papers; Groundwood Specialty Papers—Namely, Lightwood Catalog, Lightweight Directory, and Printing Papers.
Claims use since Mar. 15, 1945.

Ser. No. 644,469. Topco Associates, Inc. (Cooperative), Chicago, Ill. Filed Mar. 30, 1953.



The word "Soft" is disclaimed apart from the mark as shown.
For Toilet Tissues.
Claims use since on or about Mar. 21, 1949.

Ser. No. 644,471. Topco Associates, Inc. (Cooperative), Chicago, Ill. Filed Mar. 30, 1953.



For Facial Tissues, Paper Napkins, Paper Towels, and Toilet Tissues.
Claims use since on or about Mar. 21, 1949.

Ser. No. 644,740. Crown Zellerbach Corporation, San Francisco, Calif. Filed Apr. 6, 1953.

PACIFIC GLOSS

"Gloss" is disclaimed apart from the mark. Applicant claims ownership of Registration No. 512,524.
For Coated Book Paper.
Claims use since September 1947.

Ser. No. 644,741. Crown Zellerbach Corporation, San Francisco, Calif. Filed Apr. 6, 1953.

WESTERN GLOSS

"Gloss" is disclaimed apart from the mark. Applicant claims ownership of Registration No. 512,524.
For Coated Book Paper.
Claims use since September 1947.

Ser. No. 644,742. Crown Zellerbach Corporation, San Francisco, Calif. Filed Apr. 6, 1953.

MISSION GLOSS

The term "Gloss" is disclaimed apart from the mark. Applicant claims ownership of Registration No. 512,524.
For Coated Book Paper.
Claims use since August 1952.

Ser. No. 645,152. Kaleidoscope, Corona, N. Y. Filed Apr. 13, 1953.

KALEIDOSCOPE

For Book Covers.
Claims use since Apr. 15, 1952.

Ser. No. 645,306. Graham Paper Company, St. Louis, Mo. Filed Apr. 15, 1953.

TANJER WRAPPER

The word "Wrapper" is disclaimed apart from the mark as shown.
For Wrapping Paper.
Claims use since Jan. 12, 1928.

Ser. No. 645,465. Commonwealth Cedar Company, Inc., Shelbyville, Tenn. Filed Apr. 17, 1953.

WHIRLY-BIRDS

For Wood Encased Pencils.
Claims use since Sept. 15, 1952.

Ser. No. 646,125. The General Cellulose Company, Inc., Garwood, N. J. Filed Apr. 29, 1953.

PIC • POCKET

For Toilet Tissues, and More Particularly Facial Tissues.
Claims use since Apr. 11, 1951.

Ser. No. 646,334. Topco Associates, Inc. (Cooperative), Chicago, Ill. Filed May 1, 1953.

BABY SOFT

The word "Soft" is disclaimed apart from the mark as shown.
For Toilet Tissue.
Claims use since on or about Mar. 21, 1949.

Ser. No. 646,628. Riverside Paper Corporation, Appleton, Wis. Original filed, act of 1946, Supplemental Register, May 7, 1953; amended to application, Principal Register, Oct. 12, 1953, Serial No. 646,628.

TRU-RITE

For Notebook Tablets, and Note Books, and Note Book Fillers.
Claims use since Apr. 8, 1952.

Ser. No. 646,864. Hammermill Paper Company, Erie, Pa. Filed May 12, 1953. (Sec. 2f.)

Cockletone

Applicant claims ownership of Registration No. 533,806.
For Writing and Printing Papers.
Claims use since May 10, 1947.

Ser. No. 647,097. River Raisin Paper Company, Monroe, Mich. Filed May 15, 1953.

EXACTOBOARD

For Corrugated and Solid Paperboard Sheets for the Construction of Boxes, Shipping Cases, and Cartons and Partitions in the Same, and as Paperboard Used as a Protective Partition or Barrier for Goods, Wares, and Merchandise While Stored or Being Shipped.
Claims use since Apr. 7, 1953.

Ser. No. 647,318. The Red Cedar Pencil Company, Inc., Lewisburg, Tenn. Filed May 19, 1953.

DOUGHNUT

For Lead Pencils.
Claims use since Apr. 20, 1953.

Ser. No. 648,634. Universal Handkerchief Company, Inc., New York, N. Y. Filed June 11, 1953.

hankaway

For Handkerchiefs Made of Paper-Like Material.
Claims use since June 3, 1953.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 646,513. Hoffmann-La Roche Inc., Nutley, N. J. Filed Apr. 24, 1953. (Sec. 2f.)

Therapeia

Applicant claims ownership of Registration No. 534,823.
For Periodical in the Nature of a Review of Drug Therapy.
Claims use since Mar. 20, 1948.

CLASS 39

CLOTHING

Ser. No. 640,855. Gremlins, Inc., Boston, Mass. Filed Jan. 16, 1953.

Gremlins

Applicant claims ownership of Registration No. 519,425.
For Hosiery, Jackets, Jerkins, Jodhpurs, Overalls, Play Suits, Suits, Slack Suits, Slacks, Sun Suits, and Outer Shorts for Boys and Girls.
Claims use since Feb. 18, 1947.

Ser. No. 644,931. Schloss Bros. & Co. Inc., Baltimore, Md. Filed Apr. 8, 1953.

DAKARA

For Men's Suits, Including Coats, Vests, and Trousers; Individual Coats and Trousers, Frequently Referred to as Sport Jackets and Slacks, Respectively; and Topcoats.
Claims use since Aug. 27, 1951.

Ser. No. 646,748. Ruth Fair, doing business as R. Fair Co., Dallas, Tex. Filed May 11, 1953.

Ruth Fair

The mark is the facsimile signature of the applicant.
For Misses' and Ladies' Dresses, Skirts, Jackets, Outer Shorts, Halters, Blouses, Suits, Jumpers, Camisoles, Slacks, and Coats.
Claims use since on or about Mar. 1, 1949.

Ser. No. 647,190. Johnston, Inc., Dallas, Tex. Filed May 18, 1953. (Sec. 2f.)

Johnston

For Children's Garments, Six Months to Fourteen Years Sizes—Namely, Blouses, Coats, Dresses, Peignoirs, Jackets, Overalls, Lounging Robes, Outer Shirts, Outer Shorts, Suits, One-Piece Suits, and Underslips.
Claims use since November 1931.

Ser. No. 647,336. Belk's Buying Service, Inc., Charlotte, N. C. Filed May 20, 1953.

OLE HONESTY

For Men's Overalls, Work Shirts, and Work Trousers.
Claims use since Apr. 30, 1951.

Ser. No. 648,605. Jordan Manufacturing Corp., New York, N. Y. Filed June 11, 1953.

SEA IMPS

Applicant claims ownership of Registration No. 435,285.
For Children's Bathing Suits, Trunks, and Caps.
Claims use since May 25, 1953.

Ser. No. 649,403. Valcort Hosiery Corporation, New York, N. Y. Filed June 25, 1953.

La Boheme

For Women's Hosiery.
Claims use since during October 1952.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 627,746. Hirschberg, Schutz & Co. Inc., New York, N. Y. Filed Apr. 8, 1952. (Sec. 2f as to "Roblee.")

ROBLEE HS & Co BRAND

The word "Brand" is disclaimed apart from the mark as shown.
Applicant claims ownership of Registration No. 362,224.
For Lace Edgings and Insertions, Embroidered Edgings and Insertions, Garment Trimmings—Namely, Rick Rack,

Braids, Fringes, Sequins and Sequin Trimmings, Cording, Bead Trimming (Not Made of Precious Metal or Gems), Emblems, Frogs, Ruffings, Pearl and Rhinestone Trimmings (Sold by the Yard); Lamp Shade Trimming– Namely, Braids, Fringes, Rosebud Trimming, Ruching, and Applique Pieces.
Claims use since 1913.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 542,586. Hoover Manufacturing and Sales Co., New York, N. Y. Filed Nov. 28, 1947.

Sunningdale

For Piece Goods of Cotton, Wool, and Synthetic Fibers.
Claims use since January 1932.

Ser. No. 636,011. D. B. Fuller & Co., Inc., New York, N. Y. Filed Oct. 1, 1952.

WINDSWEPT

For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since July 16, 1951.

Ser. No. 639,852. J. P. Stevens & Co., Inc., New York, N. Y. Filed Dec. 20, 1952.

Lamspun

For Flannel Fabrics in the Piece Made in Substantial Part of Wool Combined With Synthetic Fibers.
Claims use since Aug. 4, 1952.

Ser. No. 646,056. De Jong Inc., Long Island City, N. Y. Filed Apr. 28, 1953.

BLINDFOLD

For Draperies of Matchstick Bamboo, Basswood Strips, and the Like, for Windows, Doors, and the Like.
Claims use since Apr. 15, 1953.

Ser. No. 649,366. Holly Knit, Inc., Mount Holly, N. C. Filed June 25, 1953.

Lan-O-Lon

For Knitted Fabrics Formed of Acrylic Fibers and Wool.
Claims use since June 1, 1953.

Ser. No. 651,287. Pellon Corporation, New York, N. Y. Filed Aug. 3, 1953.

WONDER-UNDER

For Non-Woven Fabric for Use as Interlining.
Claims use since July 2, 1953.

Ser. No. 651,391. Dellwood Fabrics Corp., New York, N. Y. Filed Aug. 5, 1953.

D'OR LAG

For Textile Fabrics in the Piece of Wool, Worsted, and Synthetic Fibres.
Claims use since Aug. 4, 1951.

CLASS 43

THREAD AND YARN

Ser. No. 645,853. Aberfoyle Manufacturing Company, Philadelphia, Pa. Filed Apr. 23, 1953.



The lining shown in the drawing is a reproduction of the lining in applicant's trade-mark. Applicant claims ownership of Registrations Nos. 167,887, 216,353, and 367,219.
For Yarns Spun of Synthetic Fibers, of Cotton Fibers and of Mixtures Thereof.
Claims use since Mar. 24, 1953.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 585,561. Sidney W. Brown, Los Angeles, Calif. Filed Sept. 30, 1949. (Sec. 2f.)



Applicant disclaims the words "Ginger Beer" apart from the mark as shown.
For Ginger Beer.
Claims use since February 1937.

Ser. No. 643,459. Blue Anchor Beverage Company, Philadelphia, Pa. Filed Mar. 11, 1953.



The stippling on the drawing is for shading purposes only. Applicant claims ownership of Registrations Nos. 177,685 and 179,115.
For Maltless Soft Drinks and Carbonated Waters.
Claims use since 1930.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 546,239. Pillsbury Mills, Inc., Minneapolis, Minn. Filed Jan. 5, 1948. (Sec. 2f.)



No claim is made to the word "Bakers," apart from the mark as shown, and no claim is made to the word "Patent," apart from the mark as shown, except when written with a diamond or square arranged in each letter of the word "Patent" substantially as shown in the drawing. Applicant claims ownership of Registrations Nos. 29,096, 29,097, and others.
For Wheat Flour.
Claims use since on or about Mar. 4, 1895.

Ser. No. 551,024. National Biscuit Company, New York, N. Y., and elsewhere throughout the United States. Filed Mar. 2, 1948. (Sec. 2f.)

BARNUM'S ANIMALS

For Bakery Products—Namely, Biscuits.
Claims use since in or about December 1902.

Ser. No. 551,026. National Biscuit Company, New York, N. Y., and elsewhere throughout the United States. Filed Mar. 2, 1948. (Sec. 2f.)

Kennedy's

Applicant claims ownership of Registration No. 36,002.
For Bakery Products– Namely, Biscuits.
Claims use since 1805.

Ser. No. 587,062. White Tower Management Corporation, Stamford, Conn. Filed Oct. 29, 1949.

WHITE TOWER

Applicant claims ownership of Registration No. 263,911.
For Sandwiches Including Hamburgers and Cheeseburgers, Cookies, Rolls, Doughnuts, Pies, Cupcakes, and Coffee.
Claims use since Nov. 15, 1926.

Ser. No. 591,437. Pillsbury Mills, Inc., Minneapolis, Minn. Filed Jan. 25, 1950. (Sec. 2f.)

BEST BAKERS PATENT

No claim is made to the words "Bakers" and "Patent" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 29,096, 29,097, and others.
For Wheat Flour.
Claims use since on or about Mar. 4, 1895.

Ser. No. 604,246. Zuckerman-Mandeville Inc., Stockton, Calif. Filed Sept. 29, 1950.

Potatocrat

For Fresh Potatoes.
Claims use since Aug. 3, 1950.

Ser. No. 615,241. Nutrena Mills, Inc., Minneapolis, Minn. Filed June 15, 1951. (Sec. 2f.)

SHOAT-40

For Vitamin Enriched Feeds for Young Pigs.
Claims use since Apr. 15, 1951.

Ser. No. 620,877. Crest Foods Co., Ashton, Ill. Filed Nov. 5, 1951.

MUL-CREST

For Emulsifier of the Glyceride Type, Suitable for Use in Frozen Desserts of the Type Including Ice Cream, Ice Milk, Sherbets, and Ices.
Claims use since May 3, 1949.

Ser. No. 627,556. Schroeder Bros., Inc., New York, N. Y. Filed Apr. 4, 1952.

fantasia

For Antipasto.
Claims use since May 5, 1949.

Ser. No. 630,518. J. Fish Smith, doing business as Fruzola Company, Salt Lake City, Utah. Filed May 29, 1952. (Sec. 2f.)



The profile figure shown on the drawing is fanciful.
For Prepared Powder Containing a Sugar, Fruit Acid, Flavoring, and Coloring To Be Eaten as a Confection.
Claims use since Apr. 1, 1942.

Ser. No. 633,065. Magic Chef Foods, Inc., Bridgeport, Conn., by change of name from Kurtz Brothers Corporation. Filed July 25, 1952.

Magic Chef

For Spaghetti, Macaroni, and Noodles.
Claims use since Mar. 24, 1941.

Ser. No. 634,451. Catz American Co., Inc., New York, N. Y. Filed Aug. 26, 1952.

ROYALTY

For Canned Hams.
Claims use since Apr. 8, 1952.

Ser. No. 634,721. Western Canners Co., Newport Beach, Calif. Filed Aug. 30, 1952.



The word "Pack" and the representation of a fish are disclaimed apart from the mark as shown.
For Canned Fish.
Claims use since July 17, 1952.

Ser. No. 637,051. Robert F. Hunsicker, doing business as Allen Products Company, Allentown, Pa. Filed Oct. 23, 1952.



For Canned Dog Food.
Claims use since Oct. 31, 1939.

Ser. No. 641,357. Vegetable Oil Products Company, Inc., Wilmington, Calif. Filed Jan. 26, 1953.

Hy-Cake

The word "Cake" is disclaimed apart from the mark as shown in the drawing.
For Hydrogenated Vegetable Oil Shortening.
Claims use since June 1, 1930.

Ser. No. 645,270. J. Strickland & Co., doing business as The So-Ten Company, Memphis, Tenn. Filed Apr. 14, 1953.

So-Ten

For Meat Tenderizer, the Principal Active Ingredient of Which Is a Fruit Extract Refined From Tropical Papaya.
Claims use since Mar. 25, 1953.

Ser. No. 648,858. Household Products Co., Evanston, Ill. Filed June 16, 1953.

Belle Cup

For Roasted Coffee.
Claims use since Oct. 1, 1949.

Ser. No. 649,356. The Flavour Candy Company, Chicago, Ill. Filed June 25, 1953.

chocla-dets

For Candy.
Claims use since May 18, 1953.

Ser. No. 649,539. Seattle Packing Company, Seattle, Wash. Filed June 29, 1953.

Chuck Wagon

For Cured and Smoked Bacon.
Claims use since Feb. 7, 1953.

Ser. No. 649,856. Worcester Baking Company, Worcester, Mass. Filed July 3, 1953.

TOWN TALK

Applicant claims ownership of Registration No. 93,484.
For Bread, Rolls, and Doughnuts.
Claims use since about Feb. 15, 1913.

Ser. No. 649,951. H. W. Mann, Salinas, Calif. Filed July 7, 1953.

SUGAR VALLEY

For Fresh Vegetables.
Claims use since June 11, 1953.

Ser. No. 650,819. Mars, Incorporated, Chicago, Ill. Filed July 24, 1953.



The drawing is lined for red, yellow, and brown. Applicant claims ownership of Registrations Nos. 304,055, 308,958, and others.
For Candy.
Claims use since May 29, 1953.

Ser. No. 650,894. Frisch's Restaurants, Inc., Cincinnati, Ohio. Filed July 27, 1953.



Applicant disclaims the words "Frisch's" and the representation of a sandwich apart from the mark.
For Steak Sandwiches.
Claims use since July 12, 1953.

Ser. No. 651,215. The Borden Company, New York, N. Y. Filed Aug. 3, 1953.

ZEST

Applicant claims ownership of Registration No. 253,305.
For Spray Dried Cheese Flavor.
Claims use since Nov. 25, 1952.

Ser. No. 651,358. Roethlisberger & Sohn A. G., also known as Roethlisberger & Son Ltd. and Roethlisberger & Fils, S. A., Langnau, Berne Canton, Switzerland. Filed Aug. 4, 1953.



No claim is made, for purposes of this application, to any of the wording shown on the drawing except "Tiger." Applicant claims ownership of Registrations Nos. 167,391 and 394,798; and of Swiss Registration No. 143,344, dated Aug. 15, 1952.
For Cheese.
Claims use since June 19, 1952, in Switzerland; and since August 1952 in commerce between foreign nations and the United States.

Ser. No. 651,420. Seapak Corporation, St. Simons Island, Ga. Filed Aug. 5, 1953.

P. D. Q. af

For Frozen Raw Shrimp.
Claims use since Jan. 1, 1951.

Ser. No. 654,126. John Eugene Hawley, doing business as Derit Products Company, Compton, Calif. Filed Oct. 2, 1953.

derit

For Natural Food Supplement in Concentrated Form Comprised of Black Figs, Soy Beans, Wheat Germ, Water Cress, Parsley, Alfalfa, Beet Leaves, Endive, Brewers' Yeast, Grape Dextrose, Nuts, Malt, Mint Leaves, Natural Chlorophyll, and Deep Sea Plants.
Claims use since July 1, 1953.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 516,924. S. A. R. L. Moltzer & Cie., Arcueil, France, assignee of Societe Anonyme Etablissements Laplace, by change of name from Societe Anonyme des Etablissements Raspail. Filed Apr. 10, 1953. (Sec. 2f.)



The stipples on the drawing indicate shading. The signature "E. Raspail" is that of the deceased founder of applicant company. No claim is made to the words "Liqueur de Dessert," "Cree en 1847," and the trade-name and address "Ste. Anne des Etents Raspail, Arcueil (France)."
For Alcoholic Liqueurs.
Claims use since in the year 1858.

Ser. No. 629,116. Schenley Industries, Inc., New York, N. Y., assignee of Many, Blanc & Co., Inc. Filed May 2, 1952.



No claim is made to the representation of a bottle, apart from the mark shown in the drawing.
For Alcoholic Cordials.
Claims use since Oct. 1, 1951.

Ser. No. 646,063. The Foster Trading Corporation, doing business as T. W. Samuels Distillery, Old Jordan Distillery, Our Own Distillery, and Country Distillers, Louisville, Ky. Filed Apr. 28, 1953.

Uncle's Old Reserve

No exclusive claim is made to the words "Old Reserve" apart from the mark as shown in the drawing.
For Whiskey.
Claims use since Dec. 11, 1952.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 600,360. Gertrude S. Tenderich, doing business as Linotape Products Company, Denver, Colo. Filed July 7, 1950.

LINOTAPE

For Strip of Inert Material in the Form of a Glass Fibre Tape Serving as a Carrier for Chemicals and Employed in a Process of Applying Contrasting Colors to Type Setting Matrices.
Claims use since Apr. 13, 1950.

Ser. No. 616,302. Societa Ceramica Richard Ginori, Milan, Italy. Filed July 10, 1951.



Applicant claims ownership of Italian Registration No. 90,199, dated Jan. 22, 1944; and United States Registration No. 533,021.
For "Small Statues" Made of Crockery and Porcelain.

Ser. No. 621,098. Bemis Bro. Bag Company, St. Louis, Mo. Filed Nov. 10, 1951.

Winter-Warm

For Beehive Covers of Cloth or Paper.
Claims use since Nov. 25, 1948.

Ser. No. 634,159. New York Silicate Book Slate Co., Inc., New York, N. Y. Filed Aug. 19, 1952.

NU-RITE

For Chalkboard To Be Affixed to the Walls of Schoolrooms and the Like and To Serve as a Writing or Drawing Surface for Chalk and Crayons.
Claims use since Feb. 18, 1952.

Ser. No. 640,236. David Stoddard, Bangor, Pa. Filed Dec. 31, 1952.

COLORITE

For Chalkboards.
Claims use since July 16, 1952.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 624,972. Revlon Products Corporation, New York, N. Y. Filed Feb. 14, 1952.

WHITE SABLE

The word "White" being descriptive, is disclaimed apart from the mark as shown.
For Cleansing Balm of a Heavy Creamy Nature.
Claims use since Jan. 14, 1952.

Ser. No. 632,722. Florasynth Laboratories, Incorporated, New York, N. Y., Chicago, Ill., Dallas, Tex., and elsewhere. Filed July 18, 1952.

ENTRAPPED

For Essences and Aromatic Ingredients Used as Bases for Cosmetics and Toilet Preparations, Perfumes, and Colognes.
Claims use since Aug. 2, 1951.

Ser. No. 635,010. Norton S. Walbridge, doing business as Good Grooming Products, Detroit, Mich. Filed Sept. 8, 1952.

Tidy-Stik

Applicant disclaims the word "Stik" apart from the mark as shown.
For Waxed Hair Pomade.
Claims use since June 23, 1952.

Ser. No. 647,707. Morishita Jintan Company Limited, Osaka, Japan. Filed May 26, 1953.



The Chinese characters are the phonetic equivalent of the word "Jintan." The portrait is fanciful. Applicant claims ownership of Registrations Nos. 65,856, 293,321, and 385,576.
For Deodorant Preparation for Purifying the Breath.
Claims use since 1904; and since Apr. 25, 1907, in commerce between the United States and Japan.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 637,493. Mona Industries, Inc., Paterson, N. J. Filed Nov. 1, 1952.

MONA

For Paste Detergent for Cottons, Rayons, and Acetates, Sulfated Fatty Acid Condensate for Boil-Off, Scouring, and Dyeing of Rayons, Acetates, and Other Synthetic Fibers, Nonionic Detergent and Wetting Agent for Boil-Off and Dye Assistance, for Fulling, Scouring, Wetting-Out, Leveling, Sanforizing, and Dispersing, Nonionic Detergent and Wetting Agent; the Same as Monamine AA, but Slightly Less Refined; Also Suitable for Kier Boiling, Nonionic Detergent and Wetting Agent; the Same as Monamine AA, but of Highest Purity; Outstanding Wetting Characteristics, Especially Recommended for Wetting-Out and Sanforizing, Nonionic Detergent and Wetting Agent; a Modification of Monamine AB, for Identical Applications.
Claims use since July 1951.

Ser. No. 637,510. The Geo. L. Williams Company, Cleveland, Ohio. Filed Nov. 1, 1952. (Sec. 2f.)

BREEN

For Concentrated Cleaner for Industrial Use.
Claims use since June 30, 1949.

SERVICE MARKS

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 639,751. Financial Counselors, Inc., San Francisco, Calif. Filed Dec. 19, 1952.

FC

The lining in the drawing represents lining forming part of the mark.

For Service to Debtors by Calculation of a Budget for the Debtor, and by Persuading the Creditors of the Debtor To Accept Periodic Partial Payments Made by Debtor Through Applicant Until the Debts Are Paid, Thereby Enabling the Debtor To Discharge His Debts by One Payment in Each Period.

Claims use since November 1952.

CLASS 103

CONSTRUCTION AND REPAIR

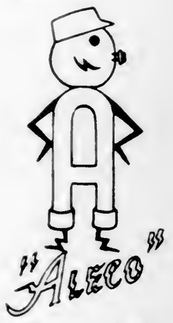
Ser. No. 618,240. Power Tool Rentals, Inc., Los Angeles, Calif. Filed Aug. 30, 1951.

rentmaster

For Rental of Tools and Equipment to Householders: Such as Paint Spray Units, Floor Sanders, Floor Edgers, Belt Sanders, Disc Sanders, Vibrating Sanders, Hand Saws, Portable Electric Saws, Tilting Arbor Saws, Hand Drills, Electric Drills, Wall Paper Removing Apparatus, Wall Paper Hanging Kits, Pipe Threaders, Pipe Cutters, Pipe Wrenches, Pipe Vises, Plumber's Snakes, Closet Augers, Fender Repair Kits, Socket Sets, Hydraulic Jacks, Screw Jacks, Wheel Pullers, Gear Pullers, Chain Hoists, Ring Compressors, Valve Grinders, Ridge Reamers, Brake Spring Pliers, Blow Torches, Soldering Irons, Tow Bars, Post Hole Augers, Post Hole Diggers, Axes, Picks, Shovels, Spades, Rakes, Hoes, Hand Cultivators, Sledge Hammers, Cement Trowels, Concrete Edgers, Concrete Markers, Tree Saws, Tree Pruners, and Levels.

Claims use since Feb. 21, 1951.

Ser. No. 652,816. Alber Electric Co., Inc., Kansas City, Mo. Filed Sept. 8, 1953.



Applicant claims ownership of Registration No. 569,606.

For Electrical Installation Contracting Service and the Repair of Household, Commercial and Industrial Electrical Installations and Electrical Appliances and Apparatus.

Claims use since Sept. 1, 1952.

CLASS 104

COMMUNICATION

Ser. No. 614,303. Town & Farm Co., Inc., Grand Island, Nebr., by change of name from KMMJ, Inc. Filed May 24, 1951.

RANCH & FARM RADIO

For Radio Program Broadcasting.

Claims use since November 1949.

CLASS 106

MATERIAL TREATMENT

Ser. No. 643,403. Donald W. Byers, Portland, Oreg. Filed Mar. 10, 1953.

VIVICOLOR

For Making Color Prints From Photograph Color Negatives.

Claims use since April 1948.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,794. Coils, Contacts, Springs, Condensers, Etc. Shurbit Products, Inc., Waukegan, Ill., assignor to Reconstruction Finance Corporation, Chicago, Ill., a corporation of the United States.

Filed Sept. 11, 1946, Serial No. 508,860. Published Apr. 21, 1953. Class 21.

ACT OF 1946, PRINCIPAL REGISTER

585,594. Laying and Spreading Machines, Pin Bar Tools Used in Holding Material on a Cutting Table, Etc. Cloth Laying Appliances Corp., Woodside, N. Y.

Original filed, act of 1905, June 17, 1946; amended to application under act of 1946, Principal Register, Feb. 10, 1948, Serial No. 504,032. Published Sept. 29, 1953. Class 23.

585,595. Laying and Spreading Machines, Pin Bar Tools Used in Holding Material on a Cutting Table, Etc. Cloth Laying Appliances Corp., Woodside, N. Y.

Original filed, act of 1905, June 17, 1946; amended to application under act of 1946, Principal Register, Feb. 10, 1948, Serial No. 504,033. Published Oct. 27, 1953. Class 23.

585,596. Laying and Spreading Machines, Pin Bar Tools Used in Holding Material on a Cutting Table, Etc. Cloth Laying Appliances Corp., Woodside, N. Y.

Original filed, act of 1905, June 17, 1946; amended to application under act of 1946, Principal Register, Feb. 10, 1948, Serial No. 504,034. Published Nov. 10, 1953. Class 23.

585,597. Accessories for Air Conditioning, Heating, and Ventilating Systems—Namely, Precast Asbestos Slabs or Sheets for Insulating Ovens, Kilns, and Air Conditioning Ducts. The Philip Carey Manufacturing Company, Cincinnati, Ohio.

Filed May 7, 1948, Serial No. 556,410. Published Oct. 27, 1953. Class 12.

585,598. Wearing Apparel—Namely, Fur Scarfs, Fur Muffs, Fur Hats, Fur Capes, Etc. Clearfield Furs, Inc., Clearfield, Pa.

Filed Dec. 3, 1948, Serial No. 569,813. Published Oct. 27, 1953. Class 39.

585,599. Olive Oil. Angelo Merlino & Sons, Seattle, Wash.

Filed Dec. 31, 1948, Serial No. 571,448. Published Nov. 10, 1953. Class 46.

585,600. Sterling Silver Flatware. Amston Silver Company, Inc., Amston, Conn.

Filed Feb. 11, 1949, Serial No. 573,700. Published Nov. 10, 1953. Class 28.

585,601. Instruments for Measuring the Phase Angle Between Alternating Currents or Voltages. Technology Instrument Corporation, Waltham, Mass.

Filed Apr. 23, 1949, Serial No. 577,620. Published Sept. 1, 1953. Class 26.

585,602. Lift Jacks, Upender Devices Used for Upending Barrels and Drums, Industrial Lifting and Stacking Trucks and Parts Thereof, and Mop Wringers and Parts Thereof. The Colson Corporation, Elyria, Ohio, assignor to The Colson Corporation (Incorporated May 27, 1953), Elyria, Ohio, a corporation of Ohio.

Filed June 10, 1949, Serial No. 580,229. Published Sept. 1, 1953. Class 23.

585,603. Steel Stamps, Embossing and Marking Dies, Power and Hand Marking Machines. Cadillac Stamp Company, Inc., Detroit, Mich.

Filed June 30, 1949, Serial No. 582,404. Published Aug. 4, 1953. Class 23.

585,604. Radio-Active Radiation Apparatus—Namely, Electronic Counters and Parts Thereof, Etc. Nuclear Instrument and Chemical Corporation, Chicago, Ill.

Filed Aug. 6, 1949, Serial No. 583,110. Published Sept. 1, 1953. Class 26.

585,605. Abrasive Resistant Coating Composition for Industrial Application to Concrete, Etc. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa.

Filed Sept. 8, 1949, Serial No. 584,570. Published Aug. 18, 1953. Class 16.

585,606. Pocket and Household Knives. Brown & Bigelow, St. Paul, Minn.

Filed Sept. 26, 1949, Serial No. 585,311. Published Aug. 8, 1950. Class 23.

585,607. Preparation for Use in Cleaning the Hands. Amaza Laboratories, Macedonia, Ohio.

Filed Feb. 9, 1950, Serial No. 592,181. Published Feb. 13, 1951. Class 52.

585,608. Agricultural and Horticultural Sprayers; Carburetors; Copper Plate Printing Presses; and Cutting Rings. Imperial Chemical Industries Limited, London, England.

Filed Mar. 28, 1950, Serial No. 594,789. Published Oct. 27, 1953. Class 23.

585,609. Wheat Flour (Including Bakery and Family Flour Made From Soft or Hard Wheat), Etc. Pillsbury Mills, Inc., Minneapolis, Minn.

Filed Apr. 3, 1950, Serial No. 595,153. Published Nov. 3, 1953. Class 46.

585,610. Bicycles, Tricycles for Adults, and Parts Thereof. Rudge-Whitworth Limited, Nottingham, England.

Filed June 13, 1950, Serial No. 599,021. Published Nov. 17, 1953. Class 19.

585,611. Internal Combustion Power Plants for Small Boats. Nordberg Manufacturing Company, Milwaukee, Wis.

Filed Sept. 27, 1950, Serial No. 604,102. Published Oct. 6, 1953. Class 23.

585,612. Service Carts, Basket Trucks, Wheeled Chair Trucks Especially Designed for Receiving Chairs for Removal and Storage Purposes, and Tool Toters in the Nature of Wheeled Carts. Lyon Metal Products, Incorporated, Aurora, Ill.

Filed Oct. 25, 1950, Serial No. 605,431. Published Nov. 17, 1953. Class 19.

585,613. Paint Enamels. De Soto Paint & Varnish Co., Memphis, Tenn.

Filed Oct. 31, 1950, Serial No. 605,641. Published Nov. 24, 1953. Class 16.

585,614. Sleet Scrapers, Bottle Openers, Combination Spoon and Bottle Openers, and Gripping Spoons. Brown & Bigelow, St. Paul, Minn.

Filed Nov. 27, 1950, Serial No. 606,968. Published Aug. 12, 1952. Class 23.

585,615. Sun-Dried Whole Fish Sold in Bulk as Food for Fox and Mink. Albert L. Townsend, doing business as Pettfish Company, Haddonfield, N. J.
Filed Dec. 21, 1950, Serial No. 607,971. Published Nov. 3, 1953. Class 46.

585,616. Anti-Vibration and Shock Absorbing Mountings and Supports for Machines, Flexible or Resilient Couplings, Etc. Metalastik Limited, Leicester, England.
Filed Jan. 3, 1951, Serial No. 608,321. Published Sept. 29, 1953. Class 23.

585,617. Boys' Inner and Outer Shirts and Shorts. American Blouse Co. Inc., New York, N. Y.
Filed Jan. 9, 1951, Serial No. 608,527. Published Oct. 27, 1953. Class 39.

585,618. Foul Weather Clothing for Boat Use Made of Impermeable, Water-Proof Material—Namely, Jackets, Trousers, and Hats Principally for Use by Men. Neptune Specialties, Inc., Brooklyn, N. Y.
Filed Jan. 11, 1951, Serial No. 608,666. Published Sept. 9, 1952. Class 39.

585,619. Women's and Girls' Hosiery. Karchmar Company, Inc., New York, N. Y.
Filed Feb. 14, 1951, Serial No. 610,077. Published Nov. 3, 1953. Class 39.

585,620. Machine for Cleaning, Rust-Proofing, Priming, and Painting Sheet Metal Articles Such as Vehicle Bodies and Chassis by Means of Spraying, Dipping, and/or Flow Coating. Carrier Engineering Company Limited, London, England.
Filed Apr. 6, 1951, Serial No. 612,307. Published Oct. 20, 1953. Class 23.

585,621. Metal Cutting Presses. Super Speed Press Corporation, Bridgeton, N. J.
Filed Apr. 26, 1951, Serial No. 613,201. Published Sept. 1, 1953. Class 23.

585,622. Printing Inks for Textiles, Paper, and Plastic Films. Rarolite Chemical Co., Inc., Raritan, N. J.
Filed May 5, 1951, Serial No. 613,574. Published Nov. 17, 1953. Class 11.

585,623. Photoelectric Colorimeter and Density Comparison and Measuring Instrument for Ascertaining Color or Optical Density of Liquids or Gases. Hellige, Inc., Long Island City, N. Y.
Filed May 17, 1951, Serial No. 613,989. Published Sept. 8, 1953. Class 26.

585,624. Men's and Women's Coats and Suits; Men's Trousers, Dress and Work Shirts, Neckties, and Bathrobes. A. Sagner's Son, Baltimore, Md.
Filed May 26, 1951, Serial No. 614,411. Published Oct. 27, 1953. Class 39.

585,625. Belt Pulleys and Object-Supporting Rolls for Use in Conveying and Processing Lines. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed July 9, 1951, Serial No. 616,258. Published Aug. 25, 1953. Class 23.

585,626. Drafting Ruling Pens. Keuffel & Esser Company, Hoboken, N. J.
Filed July 11, 1951, Serial No. 616,323. Published Aug. 18, 1953. Class 26.

585,627. Combined Television and Motion Picture Camera Dolly and Hydraulic Lift. National Cine Equipment, Inc., New York, N. Y.
Filed Aug. 14, 1951, Serial No. 617,671. Published Aug. 18, 1953. Class 26.

585,628. Portable Self-Priming Centrifugal Pumps, Power Hoists and Winches, Portable Wood-Sawing Rigs, and Power Lawn Mowers. Sterling Machinery Corporation, Kansas City, Mo., and Los Angeles, Calif.
Filed Aug. 27, 1951, Serial No. 618,133. Published Sept. 1, 1953. Class 23.

585,629. Industrial and Sporting Goggles, Spectacles, Welders' Helmets, Eye, Nose, and Face Shields and Parts Thereof, Etc. Sellstrom Manufacturing Company, Chicago, Ill.
Filed May 17, 1951, Serial No. 618,254. Published Aug. 18, 1953. Class 26.

585,630. Industrial and Sporting Goggles, Spectacles, Welders' Helmets; Eye, Nose, and Face Shields and Parts Thereof; and Lenses for Spectacles and Goggles. Sellstrom Manufacturing Company, Chicago, Ill.
Filed May 17, 1951, Serial No. 618,255. Published Aug. 25, 1953. Class 26.

585,631. Men's and Young Men's Suits, Topcoats, Sport Coats, Slacks, and Tuxedos. Joseph Altman, San Francisco, Calif.
Filed Sept. 4, 1951, Serial No. 618,333. Published Oct. 27, 1953. Class 39.

585,632. Welding Electrodes, Tips, and Shanks. P. R. Mallory & Co., Inc., Indianapolis, Ind.
Filed Sept. 6, 1951, Serial No. 618,460. Published Nov. 17, 1953. Class 14.

585,633. Ground Corn Cob Meal for Use as a Cleaning and Polishing Preparation Having Grease Absorbent Properties, and as a Polisher, Burnisher, and Mild Abrasive. Agri-Indus Mfg. Co., Columbus, Ohio.
Filed Oct. 18, 1951, Serial No. 620,131. Published Nov. 24, 1953. Class 4.

585,634. Frozen Uncooked Chicken, Frozen Vegetables—Namely, Succotash, Etc. The Borden Company, New York, N. Y.
Filed Nov. 15, 1951, Serial No. 621,253. Published Nov. 10, 1953. Class 46.

585,635. Industrial and Marine Clutches, Marine Power Transmissions, Industrial Brakes, and Flexible Shaft Couplings, the Goods in Each Instance Comprising a Fluid-Distensible Gripping Member and Being Adapted for Suspension of Torque. The Fawick Airflex Company, Inc., Cleveland, Ohio, assignor to Federal Fawick Corporation, a corporation of Michigan.
Filed Nov. 26, 1951, Serial No. 621,663. Published Oct. 27, 1953. Class 23.

585,636. Industrial and Marine Clutches, Marine Power Transmissions, Industrial Brakes, and Shaft Couplings, All for Sustaining Torque Transmitted by a Substantially Rigid Shaft. The Fawick Airflex Company, Inc., Cleveland, Ohio, assignor to Federal Fawick Corporation, a corporation of Michigan.
Filed Nov. 26, 1951, Serial No. 621,664. Published Oct. 27, 1953. Class 23.

585,637. Chart Tracing Patterns Consisting of Flowers, Scenery, Etc., for Use in Painting Chinaware. Augusta K. Purcupile, Alhambra, Calif.
Filed Nov. 30, 1951, Serial No. 621,902. Published Nov. 17, 1953. Class 40.

585,638. Men's, Ladies', and Children's Hats. Texas Harvest Hat Company, Laredo, Tex.
Filed Dec. 1, 1951, Serial No. 621,989. Published Oct. 27, 1953. Class 39.

585,639. Sewing Machines, Sewing Machine Parts, Sewing Machine Supplies—Namely, Quilters, Etc. Leon Jolson, doing business under the name of Jolson Sewing Machine Co., New York, N. Y.
Filed Dec. 3, 1951, Serial No. 622,022. Published Aug. 4, 1953. Class 23.

585,640. Polyalkyl Hydroxybenzene—Namely, Di-Tertiary-Butyl-Para-Cresol. Koppers Company, Inc., Pittsburgh, Pa.
Filed Jan. 3, 1952, Serial No. 623,146. Published Sept. 23, 1952. Class 6.

585,641. Men's Hosiery. Silver Knit Hosiery Mills, Inc., High Point, N. C.
Filed Jan. 8, 1952, Serial No. 623,319. Published July 29, 1952. Class 39.

585,642. Printing Equipment—Namely, Composing Machines. Fairchild Camera and Instrument Corporation, Jamaica, N. Y.
Filed Jan. 10, 1952, Serial No. 623,407. Published Aug. 25, 1953. Class 23.

585,643. Inked Ribbons. Manifold Supplies Company, Brooklyn, N. Y.
Filed Jan. 10, 1952, Serial No. 623,422. Published Nov. 17, 1953. Class 11.

585,644. Diapers and Diaper Liners. Chicopee Mills, Inc., New York, N. Y.
Filed Jan. 26, 1952, Serial No. 624,124. Published Oct. 27, 1953. Class 39.

585,645. Knitted Piece Goods, Composed of Silk, Rayon, Nylon, Wool, Cotton, Worsted, Linen, and Combinations Thereof. I. A. Wyner & Co., Inc., New York, N. Y.
Filed Feb. 4, 1952, Serial No. 624,517. Published Oct. 14, 1952. Class 42.

585,646. Ladies', Misses', and Juniors' Coats, Suits, Hosiery, Robes, Pajamas, and Nightgowns. Adelaide Dresses, Inc., St. Louis, Mo.
Filed Feb. 6, 1952, Serial No. 624,580. Published Nov. 17, 1953. Class 39.

585,647. Rotary Oil Pumps, Valves, and Other Parts Thereof, Etc. Geraetebau-Anstalt, Balzers, Liechtenstein.
Filed Feb. 9, 1952, Serial No. 624,739. Published Apr. 14, 1953. Class 23.

585,648. Laundry Bleach and Cleanser. E. Bierhaus and Sons, Vincennes, Ind.
Filed Feb. 27, 1952, Serial No. 625,579. Published Nov. 17, 1953. Class 52.

585,649. Paint and Similar Type Protective and Decorative Coating and Surfacing Brushes. Samuel M. Dell & Co., Inc., Baltimore, Md.
Filed Mar. 13, 1952, Serial No. 626,369. Published Nov. 17, 1953. Class 29.

585,650. Lubricants of the Type Containing Molybdenum Disulfide and Employed in Lubricating Machine Parts. Brewer & Eliot, Inc., Boston, Mass.
Filed Mar. 15, 1952, Serial No. 626,492. Published Oct. 27, 1953. Class 15.

585,651. Men's Suits, Coats, and Trousers. Michaels, Stern & Company, Incorporated, Rochester, N. Y.
Filed Mar. 19, 1952, Serial No. 626,689. Published Oct. 27, 1953. Class 39.

585,652. Coal. Foreston Coal Co., Inc., New York, N. Y.
Filed Mar. 26, 1952, Serial No. 627,059. Published Nov. 3, 1953. Class 1.

585,653. Cameras and Parts Thereof. Herbert George Co., Chicago, Ill.
Filed Mar. 27, 1952, Serial No. 627,125. Published Aug. 18, 1953. Class 26.

585,654. Oxygen Humidifiers for Use in Humidified Oxygen Therapy. Puritan Compressed Gas Corporation, Kansas City, Mo.
Filed Mar. 27, 1952, Serial No. 627,148. Published Oct. 27, 1953. Class 44.

585,655. Metal Hand Stamp. Max Bayerdorffer, doing business as Numberall Stamp & Tool Co., Huguenot Park, N. Y.
Filed Mar. 7, 1952, Serial No. 627,367. Published Oct. 20, 1953. Class 23.

585,656. Paints, Pigments for Paints, Plastic Coating Compositions. Eric Vietze, doing business under the trade name and style of Vietze Luminescent Company, Baldwin, N. Y.
Filed Apr. 2, 1952, Serial No. 627,476. Published Nov 17, 1953. Class 16.

585,657. Processing Apparatus for Dairy Products and the Like—Namely, Homogenizers. Cherry-Burrell Corporation, Chicago, Ill.
Filed Apr. 3, 1952, Serial No. 627,494. Published Aug. 18, 1953. Class 23.

585,658. Artificial Respiration Collars for Use as a Sealing Device in Automatic Respirators and Fitted About the Patient's Neck To Prevent Pressure Leakage. The Sponge Rubber Products Company, Shelton, Conn.
Filed Apr. 5, 1952, Serial No. 627,649. Published Nov. 3, 1953. Class 44.

585,659. Abrasive Black Board Scrub Block Made of Vitrified and Absorbent Aluminum Oxide and Clay. Alatol, Incorporated, Philadelphia, Pa.
Filed Apr. 11, 1952, Serial No. 627,917. Published Nov. 10, 1953. Class 4.

585,660. Sportswear—Namely, Leather Sandals, Etc. Clyde Associates Incorporated, New York, N. Y.
Filed Apr. 15, 1952, Serial No. 628,092. Published Nov. 17, 1953. Class 39.

585,661. Men's Coats, Trousers, Suits, Sweaters, Neckties, Shorts, Swimming Trunks, Socks, Shirts, Sport Shirts, Handkerchiefs, Waistcoats, Garters, Suspenders. William B. Riley, Ltd. Inc., Beverly Hills, Calif.
Filed Apr. 21, 1952, Serial No. 628,430. Published Oct. 27, 1953. Class 39.

585,662. Plastic Anti-Slip Floor Coating. The Flintkote Company, New York, N. Y.
Filed May 1, 1952, Serial No. 629,004. Published Nov. 17, 1953. Class 16.

585,663. Ironing Board Covers and Pads and Combinations of Ironing Board Covers and Pads. Gustin-Kramer Company, Boston, Mass.
Filed May 10, 1952, Serial No. 629,488. Published Nov. 17, 1953. Class 24.

585,664. Twirling Batons. H. & A. Selmer, Inc., Elkhart, Ind.
Filed May 10, 1952, Serial No. 629,527. Published Nov. 17, 1953. Class 36.

585,665. Twirling Batons. H. & A. Selmer, Inc., Elkhart, Ind.
Filed May 10, 1952, Serial No. 629,528. Published Nov. 17, 1953. Class 36.

585,666. Twirling Batons. H. & A. Selmer, Inc., Elkhart, Ind.
Filed May 21, 1952, Serial No. 630,037. Published Nov. 17, 1953. Class 36.

585,667. Lawn Mowers. Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn.
Filed May 24, 1952, Serial No. 630,236. Published Oct. 27, 1953. Class 23.

585,668. Men's and Boys', Sport Shirts, Polo Shirts, and T Shirts, for Outer Wear. Myrna Knitwear, Inc., New York, N. Y.
Filed May 27, 1952, Serial No. 630,338. Published Oct. 27, 1953. Class 39.

585,669. Automatic Metal Chip Handling Systems, Comprising Feeder, Crusher, Conveyor, and Extractor and Associated Parts for Salvaging Metal. Turbine Equipment Company, New York, N. Y.
Filed May 28, 1952, Serial No. 630,459. Published Oct. 20, 1953. Class 23.

585,670. Women's Hosiery and Girdles. Steinberg Bros., New York, N. Y.
Filed May 29, 1952, Serial No. 630,520. Published Nov. 17, 1953. Class 39.

585,671. Quick Setting Compound in Liquid or Powder State Composed of Natural or Synthetic Resins With Cementitious Material, Etc. Revertex Limited, London, England.
Filed June 6, 1952, Serial No. 630,855. Published Oct. 27, 1953. Class 12.

585,672. Perfumes, Eau de Cologne, Stick Cologne. Old Empire Manufacturing Chemists, Incorporated, doing business under the style Marques de Elorza, Newark, N. J.
Filed June 7, 1952, Serial No. 630,905. Published Nov. 17, 1953. Class 51.

585,673. Jewelry, Made Wholly or Partly of or Plated With Precious Metal—Namely, Bracelets, Finger Rings, Necklaces, Tie Clips, Cuff Links, Money Clips, Pins, Key Chains, and Earrings. Charlotte D. Winter, Paramus, N. J.
Filed June 13, 1952, Serial No. 631,188. Published Nov. 10, 1953. Class 28.

585,674. Crockery, Earthenware of Porcelain Articles—Namely, Vases, Centerpieces for Table Displays, Trays, Dishes, and Flower Planters. Charlotte D. Winter, Paramus, N. J.
Filed June 13, 1952, Serial No. 631,189. Published Nov. 10, 1953. Class 30.

585,675. Glassware—Namely, Vases, Centerpieces for Table Displays, Trays, Dishes, Flower Planters, Drinking Glasses, Bottles, and Pitchers. Charlotte D. Winter, Paramus, N. J.
Filed June 13, 1952, Serial No. 631,190. Published Nov. 10, 1953. Class 33.

585,676. Games Including a List of Questions so Worded That They May Be Answered by a Number or an Adjective or an Adverb of a Number, Etc. John Russ, Canton, Ohio.
Filed June 16, 1952, Serial No. 631,255. Published Nov. 17, 1953. Class 22.

585,677. Ironing Board Pad and Cover. Trio Novelty Mfg. Corp., New York, N. Y.
Filed June 26, 1952, Serial No. 631,829. Published Nov. 17, 1953. Class 24.

585,678. Glass Beaded Fabrics, Used in Cut Sizes as Motion Picture Projection Screens, and Also Sold in the Form of Rolls Subsequently To Be Cut to Size, Etc. Radiant Manufacturing Corporation, Chicago, Ill.
Filed July 2, 1952, Serial No. 632,100. Published Aug. 18, 1953. Class 26.

585,679. Closure Caps for Cans, Jars, and Bottles. Jaques Manufacturing Company, Chicago, Ill., assignor to The Aridor Company, Chicago, Ill., a corporation of Illinois.
Filed July 11, 1952, Serial No. 632,427. Published Nov. 10, 1953. Class 50.

585,680. Anti-Freeze Solutions for the Cooling Systems of Internal Combustion Engines. Monsanto Chemical Company, St. Louis, Mo.
Filed July 14, 1952, Serial No. 632,533. Published Feb. 24, 1953. Class 6.

585,681. Drilling and Boring Machines. Barnes Drill Co., Rockford, Ill.
Filed July 16, 1952, Serial No. 632,586. Published Sept. 29, 1953. Class 23.

585,682. Grooved Phonograph Records. Musica Argentina e Internacional Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina.
Filed July 23, 1952, Serial No. 632,949. Published Nov. 17, 1953. Class 36.

585,683. Gold Plated Insignia With Combined Locket. Ira Green, Inc., New York, N. Y.
Filed July 25, 1952, Serial No. 633,055. Published Nov. 10, 1953. Class 28.

585,684. Sling Shots and Arrow Shooters. Zing Manufacturing Company, San Jose, Calif.
Filed July 28, 1952, Serial No. 633,188. Published Nov. 17, 1953. Class 22.

585,685. Combination Dye and Cleaner for Rugs and Carpets. Aerosol Products Corporation, Chicago, Ill.
Filed July 30, 1952, Serial No. 633,247. Published Nov. 24, 1953. Class 52.

585,686. Portland Cement. S. A. des Ciments Portland Liegeois, Haccourt, Belgium.
Filed Aug. 8, 1952, Serial No. 633,632. Published Oct. 27, 1953. Class 12.

585,687. Trunks. Richard Morszeck, Koln-Junkersdorf, Germany.
Filed Aug. 6, 1952, Serial No. 634,020. Published Nov. 10, 1953. Class 3.

585,688. Celluloid Type Finish Coatings for Wood, Leather, and Metal Surfaces. Elva F. Ramseier, doing business under the assumed name of Al Ramseier, Corvallis, Oreg.
Filed Aug. 18, 1952, Serial No. 634,115. Published Nov. 24, 1953. Class 16.

585,689. Plaster, Concrete, Cement, Mineral Wool for Insulation Purposes in Loose Form and in the Forms of Batts and Blankets. Tennessee Products & Chemical Corporation, Nashville, Tenn.
Filed Aug. 25, 1952, Serial No. 634,424. Published Oct. 27, 1953. Class 12.

585,690. Toys and Novelties Filled With Edible Candy. Fred Stark, Chicago, Ill.
Filed Aug. 26, 1952, Serial No. 634,496. Published Nov. 17, 1953. Class 22.

585,691. Impregnating Oil Used in Treating Dusting Cloths to Increase Their Ability to Pick Up Dust. Callawny Mills Company, La Grange, Ga.
Filed Aug. 28, 1952, Serial No. 634,573. Published Oct. 27, 1953. Class 6.

585,692. Men's and Young Men's Outer Wearing Apparel—Namely, Sport Jackets, Suits, and Topcoats. Samuel E. Schlein, Inc., doing business under the name Westbrooke Clothes, New York, N. Y.
Filed Sept. 3, 1952, Serial No. 634,808. Published Oct. 27, 1953. Class 39.

585,693. Men's and Boys' Dress and Sport Shirts. Marlboro Shirt Company, Inc., Baltimore, Md.
Filed Sept. 5, 1952, Serial No. 634,907. Published Sept. 29, 1953. Class 39.

585,694. Brassières, Foundations, and Girdles. Snug-Fit Foundations Company, New York, N. Y.
Filed Sept. 5, 1952, Serial No. 634,924. Published Nov. 17, 1953. Class 39.

585,695. Tinners' Snips, Heavy Duty Nippers, and Carpenters' Nippers. Diamond Calk Horseshoe Co., Duluth, Minn.
Filed Sept. 8, 1952, Serial No. 634,965. Published Oct. 20, 1953. Class 23.

585,696. Dolls. Ideal Toy Corporation, Hollis, N. Y.
Filed Sept. 9, 1952, Serial No. 635,035. Published Nov. 17, 1953. Class 22.

585,697. Dolls. Ideal Toy Corporation, Hollis, N. Y.
Filed Sept. 9, 1952, Serial No. 635,036. Published Nov. 17, 1953. Class 22.

585,698. Cough Syrup. The Wander Company, Chicago, Ill.
Filed Sept. 17, 1952, Serial No. 635,382. Published Nov. 3, 1953. Class 18.

585,699. Ready-Mixed Paints, Enamels, and Varnishes. Vita-Var Corporation, Newark, N. J.
Filed Sept. 20, 1952, Serial No. 635,560. Published Nov. 17, 1953. Class 16.

585,700. Fraternity Badges; Lapel Buttons; Scarf, Lapel, and Breast Pins; Cuff Links; Tie Clasps; Charms; Finger Rings; Belt Buckles, and Ornamental Shields, All of Precious Metal. Delta Gamma Fraternity, Columbus, Ohio.
Filed Sept. 29, 1952, Serial No. 635,905. Published Nov. 10, 1953. Class 28.

585,701. Garden Hose. Green Thumb Products, Toledo, Ohio.
Filed Sept. 30, 1952, Serial No. 635,966. Published Nov. 17, 1953. Class 35.

585,702. Watches, Alarm Clocks, and Parts Thereof; and Watch and Alarm Clock Cases. Fabrique d'Horlogerie Sindaco S. A., Muralto, Switzerland.
Filed Oct. 2, 1952, Serial No. 636,068. Published Nov. 10, 1953. Class 27.

585,703. Artificial Flowers in a Glass Bowl Adapted To Be Filled With Water. Benray Manufacturing Company, Detroit, Mich.
Filed Oct. 6, 1952, Serial No. 636,197. Published Nov. 3, 1953. Class 50.

585,704. Stapling Machines, Binding Machines Using Metal Staples, and Tacking Machines Using Metal Staples. Acme Staple Company, Camden, N. J.
Filed Oct. 10, 1952, Serial No. 636,452. Published Oct. 27, 1953. Class 23.

585,705. Composition for the Removal of All Foreign Substance From and the Preservation of the Metal in Steam Boilers, Hot Water Heating Systems, Hot Water Tanks, Internal Combustion Engines, and Radiators. Gillespie & Sons, Vancouver, British Columbia, Canada.
Filed Oct. 13, 1952, Serial No. 636,564. Published Nov. 24, 1953. Class 52.

585,706. Vehicles—Namely, Passenger Automobiles. Packard Motor Car Company, Detroit, Mich.
Filed Oct. 14, 1952, Serial No. 636,601. Published Nov. 17, 1953. Class 19.

585,707. Colored Wall Covering in the Nature of a Plaster. J. E. Wendt, Richmond, Ill.
Filed Oct. 14, 1952, Serial No. 636,621. Published Nov. 17, 1953. Class 12.

585,708. Women's and Misses' Girdles. Caltex Sportswear Co. of California, Inc., Los Angeles, Calif., now by change of name Caltex of California, Inc.
Filed Oct. 15, 1952, Serial No. 636,631. Published Nov. 17, 1953. Class 39.

585,709. Dry Cleaning Machines and Dry Cleaning Tumblers. Ayr-Mor Machinery Company, Inc., Chicago, Ill.
Filed Oct. 20, 1952, Serial No. 636,874. Published Nov. 17, 1953. Class 24.

585,710. Perfume, Cologne, Toilet Water, Lipstick, Rouge, Face Powder, Eyelash and Eyebrow Pencils, Mascara, Pads Impregnated With Suntan and Cleansing Lotion, Creams for the Hands and Face, Skin Lotion, Hair Tonic, Brilliantine, and Nail Polish. Les Parfums de Dana, Inc., New York, N. Y.
Filed Oct. 23, 1952, Serial No. 637,054. Published Oct. 27, 1953. Class 51.

585,711. Puppets. John C. Stickley, doing business as Jaystik Sales, Atlanta, Ga.
Filed Oct. 24, 1952, Serial No. 637,152. Published Nov. 17, 1953. Class 22.

585,712. Typewriters and Parts Thereof. Underwood Corporation, New York, N. Y.
Filed Oct. 24, 1952, Serial No. 637,158. Published Oct. 27, 1953. Class 23.

585,713. Liquid for Cleaning Surfaces of Glass, Wood, Porcelain, Painted Walls, and the Like. National Laboratories, Inc., Toledo, Ohio.
Filed Oct. 28, 1952, Serial No. 637,284. Published Nov. 24, 1953. Class 52.

585,714. Powder Retainer for False Teeth. Jay G. Hobson, doing business as Rigident Products Company, Los Angeles, Calif.
Filed Nov. 4, 1952, Serial No. 637,586. Published Oct. 27, 1953. Class 51.

585,715. Celesta and Celestette, Piano Keyboard Instruments, Chimes, Etc. G. C. Jenkins Co., Decatur, Ill.
Filed Nov. 12, 1952, Serial No. 637,925. Published Nov. 17, 1953. Class 36.

585,716. Soil Conditioners and Soil Fertilizers. Western Mines, Inc., Pueblo, Colo.
Filed Nov. 17, 1952, Serial No. 638,230. Published Nov. 24, 1953. Class 10.

585,717. Men's, Ladies', and Children's Hats. Texas Harvest Hat Company, Laredo, Tex.
Filed Nov. 19, 1952, Serial No. 638,328. Published Oct. 27, 1953. Class 39.

585,718. Men's Slacks. Haggar Company, Dallas, Tex.
Filed Nov. 21, 1952, Serial No. 638,417. Published Oct. 27, 1953. Class 39.

585,719. Metal Corner and Edge Guards for Exterior Wall Board Corners. Drywall Trim, Inc., New York, N. Y.
Filed Nov. 26, 1952, Serial No. 638,640. Published Oct. 27, 1953. Class 12.

585,720. Liquid Parting Agent for Foundry Patterns. The Buckeye Products Company, Cincinnati, Ohio.
Filed Nov. 28, 1952, Serial No. 638,688. Published Nov. 10, 1953. Class 1.

585,721. After-Shampoo Terry Cloth Cap in the Shape Commonly Known as a Beret or Tam O'Shanter. Clinico, Inc., New York, N. Y.
Filed Dec. 5, 1952, Serial No. 639,018. Published Oct. 27, 1953. Class 39.

585,722. Resin Fibrous Composition Sheet Material for Construction Purposes. Woodall Industries, Incorporated, Detroit, Mich.
Filed Dec. 5, 1952, Serial No. 639,094. Published Oct. 27, 1953. Class 12.

585,723. Fibrous Composition Sheet Material for Construction Purposes. Woodall Industries, Incorporated, Detroit, Mich.
Filed Dec. 5, 1952, Serial No. 639,095. Published Oct. 27, 1953. Class 12.

585,724. Men's, Women's, and Children's Topcoats and Overcoats; Men's and Women's Suits; Sport Coats, Trousers, and Skirts. Hans Jakob Bücking, Alsfeld (Hessen), Germany.
Filed Dec. 9, 1952, Serial No. 639,206. Published Nov. 10, 1953. Class 39.

585,725. Educational Question and Answer Game. Gee Kaye Educational Toys, Inc., New York, N. Y.
Filed Dec. 10, 1952, Serial No. 639,271. Published Nov. 17, 1953. Class 22.

585,726. Plastic Boats—Namely, Power Boats, Row Boats, and Canoes. Plastic Industries, Inc., Kansas City, Mo.
Filed Dec. 12, 1952, Serial No. 639,390. Published Nov. 17, 1953. Class 19.

585,727. Sanitary Napkin Belts. Estella E. Statter, Olivet, S. Dak.
Filed Dec. 13, 1952, Serial No. 639,446. Published Nov. 17, 1953. Class 44.

585,728. Overprinting, Hand-Driven Machines for Printing Direct on Cards, Box Ends, Wood, Collars, Tags, and the Like. Dapag (1943) Limited, London, England.
Filed Dec. 19, 1952, Serial No. 639,746. Published Oct. 20, 1953. Class 23.

585,729. Concrete Building Blocks and Bricks. Lakeside Gravel Company, Bellevue, Wash.
Filed Dec. 23, 1952, Serial No. 639,940. Published Nov. 17, 1953. Class 12.

585,730. Welding Electrodes. P. R. Mallory & Co., Inc., Indianapolis, Ind.
Filed Dec. 24, 1952, Serial No. 640,003. Published Nov. 17, 1953. Class 14.

585,731. Men's Neckties and Lounging Beach and Bath Robes, Scarves, Handkerchiefs, Sport Shirts, Jackets, Lounging Jackets, and Dressing Gowns. Wm. A. Taylor, Ltd., New York, N. Y.
Filed Dec. 24, 1952, Serial No. 640,019. Published Sept. 29, 1953. Class 39.

585,732. Emulsifier Consisting of Dried Soap Used as Additive in Drilling Muds. Crossett Chemical Company, Crossett, Ark., now by merger and change of name The Crossett Company, a corporation of Arkansas.
Filed Dec. 29, 1952, Serial No. 640,106. Published Nov. 24, 1953. Class 6.

585,733. Cameras for Use in Graphic Reproductions and Modifications. Modi-Graphic Inc., Cincinnati, Ohio.
Filed Dec. 31, 1952, Serial No. 640,220. Published Sept. 1, 1953. Class 26.

585,734. Hand-Operated Food Choppers. Carrollton Manufacturing Company, Carrollton, Ohio.
Filed Jan. 2, 1953, Serial No. 640,259. Published Sept. 29, 1953. Class 23.

585,735. Chemical Intermediate—Namely, Dehydrated Castor Oil, Used in the Making of Alkyd Resins, Drying Oil Formations and the Like, and Not Used as a Lubricant. Reichhold Chemicals, Inc., Detroit, Mich.
Filed Jan. 2, 1953, Serial No. 640,305. Published July 21, 1953. Class 6.

585,736. Hair-Dressing and Setting Lotion. Lenthéric, Incorporated, New York, N. Y.
Filed Jan. 7, 1953, Serial No. 640,464. Published Oct. 27, 1953. Class 51.

585,737. Galvanized Steel Sheets. Bethlehem Steel Company, Bethlehem, Pa.
Filed Jan. 9, 1953, Serial No. 640,544. Published Nov. 17, 1953. Class 14.

585,738. Polymerization Inhibitor. The General Tire & Rubber Company, Akron, Ohio.
Filed Jan. 12, 1953, Serial No. 640,623. Published Nov. 17, 1953. Class 6.

585,739. Anti-Freeze. The R. J. Brown Company, St. Louis, Mo.
Filed Jan. 15, 1953, Serial No. 640,783. Published Nov. 24, 1953. Class 6.

585,740. Cartons Made of Fibreboard or Paper Board. Sutherland Paper Company, Kalamazoo, Mich.
Filed Jan. 15, 1953, Serial No. 640,817. Published Nov. 17, 1953. Class 2.

585,741. Sewing Machines and Parts Therefor. Hans Schädler, Eilendorf, Germany.
Filed Oct. 21, 1952, Serial No. 641,252. Published Aug. 18, 1953. Class 23.

585,742. Medications, Chemical Products for Healing Purposes and Health Care, Etc. Byk-Gulden Lomberg Chemische Fabrik G. m. b. H., Constance, Germany.
Filed Dec. 17, 1952, Serial No. 641,259. Published Nov. 3, 1953. Class 18.

585,743. Fishing Line. Western Lace and Line Company, also doing business as Western Fishing Line Co., Glendale, Calif.
Filed Jan. 26, 1953, Serial No. 641,363. Published Nov. 17, 1953. Class 22.

585,744. Soaps. Società Accomandita Semplice Franco Cella & C., Milan, Italy.
Filed Feb. 4, 1953, Serial No. 641,748. Published Nov. 24, 1953. Class 52.

585,745. Low-Octane Fuel Composition Useful for Removing Carbon and Other Combustion Chamber Deposits. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif.
Filed Feb. 4, 1953, Serial No. 641,749. Published Oct. 27, 1953. Class 52.

585,746. Men's and Boys' Trousers, Coats, Overalls, and Outer Shirts. Blue Ridge Manufacturers, Incorporated, Baltimore, Md.
Filed Feb. 9, 1953, Serial No. 641,904. Published Sept. 22, 1953. Class 39.

585,747. Optical Instrument Consisting of a Convex Reflector Mirror Lens, Coupled With a Double Convex Low Powered Lens, Etc. Peridome, Ltd., New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,963. Published Aug. 18, 1953. Class 26.

585,748. Game Device of the Parlor Golf Variety. Stanley B. Newhall, doing business as Newhall Game Company, Tucson, Ariz.
Filed Feb. 12, 1953, Serial No. 642,158. Published Nov. 17, 1953. Class 22.

585,749. Board Game Played With Lettered Pieces. Parker Brothers, Inc., Salem, Mass.
Filed Feb. 18, 1953, Serial No. 642,417. Published Nov. 17, 1953. Class 22.

585,750. Watches, Watch Cases, and Watch Movements. Theodore H. Schwob, doing business under the firm name and style Schwob Watch Company, New York, N. Y.
Filed Feb. 5, 1953, Serial No. 642,443. Published Nov. 10, 1953. Class 27.

585,751. Chemical Compound in Powder and Crystal Forms for Use in Cleaning and Mothproofing of Rugs, Carpets, and Garments for Personal Use. Dri-Wear Fur Processing Co., New York, N. Y.
Filed Feb. 18, 1953, Serial No. 642,451. Published Nov. 17, 1953. Class 52.

585,752. Ceramic Coated Exhaust Structures for Internal Combustion Engines—Namely, Exhaust Manifolds and Parts Therefor, Etc. Solar Aircraft Company, San Diego, Calif.
Filed Feb. 24, 1953, Serial No. 642,702. Published Sept. 1, 1953. Class 23.

585,753. Vermiculite and Perlite. American Vermiculite Company, Inc., Spruce Pine, N. C.
Filed Feb. 25, 1953, Serial No. 642,727. Published Nov. 3, 1953. Class 1.

585,754. Pneumatic Rubber Tires for Trucks. Richmond Rubber Company, Inc., Richmond, Va.
Filed Mar. 3, 1953, Serial No. 643,048. Published Nov. 17, 1953. Class 35.

585,755. Calculating and Adding Machines and Cash Registers. Brunsviga Maschinenwerke Aktiengesellschaft, Braunschweig, Germany.
Filed Mar. 9, 1953, Serial No. 643,284. Published Sept. 8, 1953. Class 26.

585,756. Scarfs. Doro Designs Inc., New York, N. Y.
Filed Mar. 9, 1953, Serial No. 643,299. Published Nov. 10, 1953. Class 39.

585,757. Face Cream. The Andrew Jergens Company, Cincinnati, Ohio.
Filed Mar. 9, 1953, Serial No. 643,329. Published Nov. 17, 1953. Class 51.

585,758. Liquid Detergent Germicide Cleaner for Cleaning, Sanitizing, and Disinfecting Milking Equipment. Lazarus Laboratories, Inc., Division of West Disinfecting Company, Buffalo, N. Y.
Filed Mar. 9, 1953, Serial No. 643,345. Published Nov. 24, 1953. Class 52.

585,759. Men's Suits. The Rike-Kumler Company, Dayton, Ohio.
Filed Mar. 10, 1953, Serial No. 643,436. Published Oct. 27, 1953. Class 39.

585,760. Tapioca Flour for Further Manufacture in the Industrial Arts. Stein, Hall & Company, Inc., New York, N. Y.
Filed Mar. 10, 1953, Serial No. 643,439. Published Nov. 3, 1953. Class 1.

585,761. Girdles, Panty Girdles, Corselets (Also Referred to as Combination or All-in-One Garments), Garter Belts, Brassières, Bandeaux and Bandettes (Articles of Women's Clothing for Confining or Shaping the Bust and Extending Only Slightly or Not at All Below the Bust). Venus Foundation Garments, Inc., Chicago, Ill.
Filed Mar. 10, 1953, Serial No. 643,450. Published Nov. 17, 1953. Class 39.

585,762. Diamond Abrasive Wheels. A. I. T. Diamond Tool Company, Chicago, Ill.
Filed Mar. 11, 1953, Serial No. 643,453. Published Nov. 10, 1953. Class 4.

585,763. Pliers, Wrenches, and Screwdrivers. Truecraft Tool Company, Chicago, Ill.
Filed Mar. 11, 1953, Serial No. 643,513. Published Aug. 25, 1953. Class 23.

585,764. Overalls, Work Pants, Coveralls, and Work Shirts for Men and Boys. Steiner-Lobman Dry Goods Company, Montgomery, Ala.
Filed Feb. 27, 1953, Serial No. 643,878. Published Nov. 3, 1953. Class 39.

585,765. Watches. Lieber & Lerner, New York, N. Y.
Filed Mar. 20, 1953, Serial No. 643,966. Published Nov. 10, 1953. Class 27.

585,766. Men's and Young Men's Outer Wearing Apparel—Namely, Sport Jackets, Suits, and Topcoats. Samuel E. Schlein, Inc., doing business under the name Westbrooke Clothes, New York, N. Y.
Filed Mar. 20, 1953, Serial No. 643,979. Published Nov. 3, 1953. Class 39.

585,767. Men's Outer Shirts. Brooks Brothers, Inc., New York, N. Y.
Filed Mar. 23, 1953, Serial No. 644,007. Published Oct. 27, 1953. Class 39.

585,768. Drinking Straws. Maryland Paper Products Co., Baltimore, Md.
Filed Mar. 23, 1953, Serial No. 644,043. Published Nov. 3, 1953. Class 50.

585,769. Threads of Cellulose Acetate. Societe Rhodiaceta, Paris, France.
Filed Mar. 23, 1953, Serial No. 644,073. Published Nov. 17, 1953. Class 43.

585,770. Colored Translucent Plastic Christmas Tree Ornaments. William D. Cahill, Chicago, Ill.
Filed Mar. 24, 1953, Serial No. 644,099. Published Nov. 3, 1953. Class 50.

585,771. Mufflers for Use With Internal Combustion Engines and Extensions for Tail Pipes. Goerlich's, Toledo, Ohio.
Filed Mar. 25, 1953, Serial No. 644,172. Published Oct. 20, 1953. Class 23.

585,772. Charcoal. New Jersey Charcoal Co., Irvington, N. J.
Filed Mar. 25, 1953, Serial No. 644,186. Published Nov. 3, 1953. Class 1.

585,773. Athletic Clothing—Namely, Men's and Boys' Sweat Shirts, T-Shirts, Etc. Callaway Products, Inc., New York, N. Y.
Filed Mar. 26, 1953, Serial No. 644,218. Published Sept. 29, 1953. Class 39.

585,774. Calfskin Leather for Handbags. Creese and Cook Company, Danvers, Mass.
Filed Mar. 27, 1953, Serial No. 644,289. Published Nov. 3, 1953. Class 1.

585,775. Metal Awnings. KoolVent Metal Awning Corporation of America, Pittsburgh, Pa.
Filed Apr. 3, 1953, Serial No. 644,673. Published Oct. 27, 1953. Class 12.

585,776. Ladies' Hosiery. M. K. M. Hosiery Mills, Inc., Boston and Jamaica Plain, Boston, Mass.
Filed Apr. 3, 1953, Serial No. 644,674. Published Nov. 3, 1953. Class 39.

585,777. Bituminous Coal. Phoenix Fuel Company, Louisville, Ky.
Filed Apr. 6, 1953, Serial No. 644,781. Published Nov. 10, 1953. Class 1.

585,778. Water Repellent Hides, Skins, and Suedes. Eastmor Leather Trading Corp., Gloversville, N. Y.
Filed Apr. 7, 1953, Serial No. 644,833. Published Nov. 10, 1953. Class 1.

585,779. Men's and Boys' Articles of Clothing—Namely, Suits, Coats, Overcoats, Topcoats, Vests, Trousers, Knickerbockers, and Breeches; and Women's and Misses' Articles of Clothing—Namely, Suits, Coats, and Dresses. Hart Schaffner & Marx, Chicago, Ill.
Filed Apr. 7, 1953, Serial No. 644,842. Published Sept. 29, 1953. Class 39.

585,780. Hospital Beds, Wheel Chairs, Crutches, Crutch Canes, and Folding Hospital Bed Tables. Good Will Assistance Association, Allentown, Pa.
Filed Apr. 9, 1953, Serial No. 644,981. COLLECTIVE MARK. Published Nov. 17, 1953. Class 44.

585,781. Cement and Mortar. Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa.
Filed Apr. 9, 1953, Serial No. 645,006. Published Oct. 27, 1953. Class 12.

585,782. Men's Clothing—Namely, Slacks, Sport Jackets, Sport Coats, Sport and Negligee Shirts, Suits, Sweaters, and Jackets. Wayne L. Troutner, Winslow, Ariz.
Filed Apr. 9, 1953, Serial No. 645,020. Published Nov. 3, 1953. Class 39.

585,783. Crushed or Twisted Cord Used in the Closure of Multiwall Paper Bags. The Celiucord Corporation, New York, N. Y.
Filed Apr. 13, 1953, Serial No. 645,106. Published Oct. 27, 1953. Class 7.

585,784. Electric Sewing Machines. Dorothy Schneider, doing business as Continental Sales & Sewing Machine Co., Brooklyn, N. Y.
Filed Apr. 13, 1953, Serial No. 645,192. Published Sept. 29, 1953. Class 23.

585,785. Men's Suits, Topcoats, and Sport Coats. Bohlen Gross & Moyer, Allentown, Pa.
Filed Apr. 14, 1953, Serial No. 645,226. Published Oct. 27, 1953. Class 39.

585,786. Vinyl or Other Plastic Coated Fabrics Simulating Leather and Adapted To Be Used for Clothing, Etc. Paramount Garment Company, Chicago, Ill.
Filed Apr. 14, 1953, Serial No. 645,254. Published Nov. 10, 1953. Class 50.

585,787. Games of the Nature of Lotto Using Cards and Markers. Alice R. Huff, Concord, Calif.
Filed Apr. 15, 1953, Serial No. 645,312. Published Nov. 17, 1953. Class 22.

585,788. Boys' and Young Men's Jackets, Overalls, Jumpers, Trousers, Outer Shorts, Shirts, Leather Coats, Play Suits, Leggings, Breeches, Slacks and Jodhpurs, and Novelty Western Vests. The Birnie Company, Inc., Atlanta, Ga.
Filed Apr. 16, 1953, Serial No. 645,378. Published Oct. 27, 1953. Class 39.

585,789. Men's Outer Dress and Sport Shirts, Pajamas, Handkerchiefs, Under Shirts and Under Shorts, Sport Shorts, Swim Trunks, and Neckties. The Manhattan Shirt Company, New York, N. Y.
Filed Apr. 21, 1953, Serial No. 645,656. Published Oct. 27, 1953. Class 39.

585,790. Cord. Hoffman Lion Mills Company, Incorporated, Fall River, Mass.
Filed Apr. 22, 1953, Serial No. 645,708. Published Oct. 27, 1953. Class 7.

585,791. Base Metal Table Cutlery—Namely, Knives, Forks, and Spoons. National Silver Company, New York, N. Y.
Filed Apr. 22, 1953, Serial No. 645,725. Published Oct. 27, 1953. Class 23.

585,792. Typewriter Carbon Paper. Quest Manufacturing Company, Chicago, Ill.
Filed Apr. 22, 1953, Serial No. 645,729. Published Nov. 17, 1953. Class 11.

585,793. Mechanical Exercising Devices of the Type Embodying a Treadle Bar Mounted for Universal Rotation. Samuel L. Jordan, Montgomery, Ala.
Filed Apr. 23, 1953, Serial No. 645,808. Published Nov. 17, 1953. Class 22.

585,794. Men's Clothing—Namely, Coats, Topcoats, and Suits. Eagle Clothes, Inc., Brooklyn, N. Y.
Filed Apr. 24, 1953, Serial No. 645,877. Published Oct. 27, 1953. Class 39.

585,795. Men's Clothing—Namely, Coats, Topcoats, and Suits. Eagle Clothes, Inc., Brooklyn, N. Y.
Filed Apr. 24, 1953, Serial No. 645,883. Published Oct. 27, 1953. Class 39.

585,796. Drinking Straws. Jay Dee Products Co., Inc., Brooklyn, N. Y.
Filed Apr. 24, 1953, Serial No. 645,895. Published Nov. 3, 1953. Class 50.

585,797. Men's and Boys' Blanket Lined Coats, Cossack Coats, and Western Shirts; Kiddies' Bib Overalls and Dungarees; and Ladies' and Girls' Western Dungarees. Blue Bell, Inc., Greensboro, N. C.
Filed Apr. 28, 1953, Serial No. 646,048. Published Oct. 27, 1953. Class 39.

585,798. Liquid Glass Tint in Containers Adapted for Spraying. Glass Tint Corporation, doing business under the business name and style of Spray-A-Tint, Chicago, Ill.
Filed Apr. 28, 1953, Serial No. 646,067. Published Nov. 24, 1953. Class 6.

585,799. Organic Chemical Intermediates for the Manufacture of Other Chemical Products. Allied Chemical & Dye Corporation, New York, N. Y.
Filed Apr. 29, 1953, Serial No. 646,101. Published Nov. 24, 1953. Class 6.

585,800. Eye Shadow. Primrose House, Inc., Indianapolis, Ind.
Filed Apr. 29, 1953, Serial No. 646,165. Published Oct. 27, 1953. Class 51.

585,801. Sisal Rope and Twine. The R. A. Kelly Co., Xenia, Ohio.
Filed Apr. 30, 1953, Serial No. 646,222. Published Oct. 27, 1953. Class 7.

585,802. Cologne and Shave Lotion. Lentheric, Incorporated, New York, N. Y.
Filed Apr. 30, 1953, Serial No. 646,225. Published Oct. 27, 1953. Class 51.

585,803. Men's Necktles and Scarves. Arthur Siegman, Inc., New York, N. Y.
Filed May 1, 1953, Serial No. 646,324. Published Oct. 27, 1953. Class 39.

585,804. Caulking Compound in Cartridge Form Sold as Such and for Use in Caulking Guns. Battenfeld Grease & Oil Corp., Kansas City, Mo.
Filed May 4, 1953, Serial No. 646,355. Published Nov. 17, 1953. Class 12.

585,805. Caulking Compound. Battenfeld Grease & Oil Corp., Kansas City, Mo.
Filed May 4, 1953, Serial No. 646,356. Published Nov. 17, 1953. Class 12.

585,806. Men's and Boys' Ties. Earl R. Shaw, doing business as Tiedright Tie Company, Asheboro, N. C.
Filed May 4, 1953, Serial No. 646,436. Published Oct. 27, 1953. Class 39.

585,807. Leather Belting. Holyoke Belting Company, Holyoke, Mass.
Filed May 5, 1953, Serial No. 646,472. Published Nov. 17, 1953. Class 35.

585,808. Wax Candles. Paul A. Chadwell, doing business under the name of American International Co., Washington, D. C.
Filed May 8, 1953, Serial No. 646,654. Published Oct. 27, 1953. Class 15.

585,809. Protein Fiber for Use in Making Textile Yarns and Fabrics. Virginia-Carolina Chemical Corporation, Richmond, Va.
Filed May 8, 1953, Serial No. 646,701. Published Nov. 10, 1953. Class 1.

585,810. Plate Bending Rolls, Slip Roll Forming Machines, Tank Turning Rolls, Jigs, and Fixtures for Automatic Welding, Horn Type Backup Jigs, and Idler Stands Equipped With Roller Wheels for Holding and Positioning Work Pieces. Lloyd H. Knost, doing business as Reed Engineering Company, Carthage, Mo.
Filed May 11, 1953, Serial No. 646,775. Published Oct. 27, 1953. Class 23.

585,811. Ladies' and Men's Wrist Watches. Karl R. Van Horn, Memphis, Tenn.
Filed May 12, 1953, Serial No. 646,908. Published Nov. 10, 1953. Class 27.

585,812. Therapeutic Composition for the Control of Hypertension. Allied Laboratories, Inc., Kansas City, Mo.
Filed May 13, 1953, Serial No. 646,915. Published Nov. 3, 1953. Class 18.

585,813. Antibiotic. American Cyanamid Company, New York, N. Y.
Filed May 13, 1953, Serial No. 646,916. Published Nov 3, 1953. Class 18.

585,814. Crude Tall Oil, Tall Oil Pitch, and Tall Oil Rosin. Arizona Chemical Company, New York, N. Y.
Filed May 13, 1953, Serial No. 646,919. Published Nov. 10, 1953. Class 1.

585,815. Tall Oil. Crossett Chemical Company, Crossett, Ark., now by merger and change of name, The Crossett Company, a corporation of Arkansas.
Filed May 13, 1953, Serial No. 646,924. Published Nov. 10, 1953. Class 1.

585,816. Corrosion-Resistant Steel Alloy. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y.
Filed Apr. 27, 1953, Serial No. 646,965. Published Nov. 17, 1953. Class 14.

585,817. Liquid Air Freshener. Henri Bendel, Inc., New York, N. Y.
Filed May 14, 1953, Serial No. 646,980. Published Nov. 24, 1953. Class 6.

585,818. Cotton Fibers Modified by Acetylation or Other Chemical Treatment. Hercules Powder Company, Wilmington, Del.
Filed May 14, 1953, Serial No. 647,006. Published Nov. 10, 1953. Class 1.

585,819. Paint. Wm. F. Zummach, Inc., Milwaukee, Wis.
Filed May 14, 1953, Serial No. 647,059. Published Nov. 17, 1953. Class 16.

585,820. Preparation for the Treatment of Athlete's Foot. Chemical Industries, Incorporated, New York, N. Y.
Filed May 15, 1953, Serial No. 647,063. Published Nov. 3, 1953. Class 18.

585,821. Analgesic Preparation. Smith, Kline & French Laboratories, Philadelphia, Pa.
Filed May 15, 1953, Serial No. 647,105. Published Nov. 3, 1953. Class 18.

585,822. Ingredients for Dyestuffs and Dyestuffs Both Dry and In Solution. Ansbacher-Siegle Corporation, Rosebank, N. Y.
Filed May 18, 1953, Serial No. 647,138. Published Nov. 24, 1953. Class 6.

585,823. Ingredients for Dyestuffs and Dyestuffs Both Dry and In Solution. Ansbacher-Siegle Corporation, Rosebank, N. Y.
Filed May 18, 1953, Serial No. 647,139. Published Nov. 24, 1953. Class 6.

585,824. Complete Frameless Window Screen Units. Rudiger-Lang Co., Berkeley, Calif.
Filed May 18, 1953, Serial No. 647,234. Published Nov. 17, 1953. Class 12.

585,825. Multivitamin Preparation. Chase Chemical Company, Newark, N. J.
Filed May 19, 1953, Serial No. 647,265. Published Nov. 3, 1953. Class 18.

585,826. General Purpose Liquid Disinfectant. The Fuller Brush Company, Hartford, Conn.
Filed May 19, 1953, Serial No. 647,286. Published Nov. 24, 1953. Class 6.

585,827. Air Deodorant. The Fuller Brush Company, Hartford, Conn.
Filed May 19, 1953, Serial No. 647,289. Published Nov. 24, 1953. Class 6.

585,828. Beater Additive or Size Used in the Manufacture of Coated Paper. Moore & Munger, New York, N. Y.
Filed May 19, 1953, Serial No. 647,307. Published Nov. 24, 1953. Class 6.

585,829. Beater Additive or Size Used in the Manufacture of Coated Paper. Moore & Munger, New York, N. Y.
Filed May 19, 1953, Serial No. 647,308. Published Nov. 24, 1953. Class 6.

585,830. Men's Hand Luggage—Namely, Companion or Overnight Cases, Etc. Platt Luggage, Inc., Chicago, Ill.
Filed May 20, 1953, Serial No. 647,367. Published Nov. 10, 1953. Class 3.

585,831. Revolvers. Smith and Wesson, Inc., Springfield, Mass.
Filed May 20, 1953, Serial No. 647,376. Published Nov. 17, 1953. Class 9.

585,832. Dolls. Goldberger Doll Manufacturing Co. Inc., Brooklyn, N. Y.
Filed May 27, 1953, Serial No. 647,773. Published Nov. 17, 1953. Class 22.

585,833. Heavy Woven Cotton Fabric Made of Plied Yarns for Press and Roll Coverings. B. J. Barry & Company, Inc., New York, N. Y.
Filed May 28, 1953, Serial No. 647,830. Published Nov. 17, 1953. Class 42.

585,834. Knitted Fabrics Made of Synthetic and Wool Fibers. Princeton Knitting Mills, Inc., New York, N. Y.
Filed June 1, 1953, Serial No. 648,044. Published Nov. 17, 1953. Class 42.

585,835. Women's Apparel—Namely, Shirts, Skirts, Blouses, Jackets, and Dresses. Vic Gene Mfg. Co., Inc., Kansas City, Mo.
Filed June 1, 1953, Serial No. 648,068. Published Nov. 17, 1953. Class 39.

585,836. Toy Model Raft Construction Kits. Rand McNally & Company, Skokie, Ill.
Filed June 2, 1953, Serial No. 648,133. Published Nov. 17, 1953. Class 22.

585,837. Safety Razor Blades. Standard Blade Co. Inc., New York, N. Y.
Filed June 2, 1953, Serial No. 648,141. Published Aug 25, 1953. Class 23.

585,838. Combs. Plattner Company, Inc., Kansas City, Mo.
Filed June 3, 1953, Serial No. 648,192. Published Nov. 17, 1953. Class 40.

585,839. Textile Fabrics of Silk, Rayon, Acetate, Wool, Cotton, and Combinations Thereof. Gatmart Inc., New York, N. Y.
Filed June 4, 1953, Serial No. 648,242. Published Nov. 17, 1953. Class 42.

585,840. Tarpaulins and Tents. Belknap Hardware and Manufacturing Company, Louisville, Ky.
Filed June 8, 1953, Serial No. 648,358. Published Nov. 17, 1953. Class 50.

585,841. Grooved Phonograph Records. Columbia Records Inc., Bridgeport, Conn.
Filed June 11, 1953, Serial No. 648,588. Published Nov. 17, 1953. Class 36.

585,842. Stuffed Toy Dogs. J. Swedlin, Inc., New York, N. Y.
Filed July 23, 1953, Serial No. 650,749. Published Nov. 17, 1953. Class 22.

585,843. Rubber, Composition, Plastic, and Cardboard Toys—Namely, Toy Train Sets, Etc. Auburn Rubber Company, Inc., Auburn, Ind.
Filed July 29, 1953, Serial No. 651,036. Published Nov. 17, 1953. Class 22.

585,844. Paint Brushes. Minnesota Paints, Inc., doing business as Chi-Namel Paint and Varnish Company, Minneapolis, Minn.
Filed Aug. 17, 1953, Serial No. 651,930. Published Nov. 17, 1953. Class 29.

Service Mark

585,845. Investment Advisory Service Providing Printed Market Analysis and Recommendations for the Long-Term Investor, Etc. Colvin, Mendenhall & Co., San Francisco, Calif.
Filed Dec. 29, 1949, Serial No. 590,073. Published Nov. 3, 1953. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

585,846. (Class 37. Paper and Stationery.) Brown Company, Berlin, N. H. Original filed, act of 1946. Principal Register, Nov. 4, 1949; amended to application, Supplemental Register, Feb. 28, 1952, Serial No. 587,315.

KOWTOWL

For Paper Towels.
Claims use since Oct. 21, 1949.

679 O. G.—37

585,847. (Class 32. Furniture and Upholstery.) Bunny Bear, Inc., Everett, Mass. Original filed, act of 1946. Principal Register, July 29, 1950; amended to application, Supplemental Register, May 11, 1953, Serial No. 601,423.

Carry-Crib

For Portable Collapsible Enclosed and Partly Enclosed Babies' Cribs.
Claims use since Oct. 1, 1949.

585,848. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Pryne & Co., Pomona, Calif. Original filed, act of 1946, Principal Register, Aug. 7, 1950; amended to application, Supplemental Register, Oct. 13, 1953, Serial No. 601,847.

INAVENT

For Kitchen Ventilating Fan Electrically Operated.
Claims use since May 15, 1950.

585,849. (Class 34. Heating, Lighting, and Ventilating Apparatus.) The Lennox Furnace Company, Marshalltown, Iowa. Original filed, act of 1946, Principal Register, Aug. 10, 1950; amended to application, Supplemental Register, Nov. 13, 1953, Serial No. 602,035.

Wheel-Away

For Portable Cooking Units Utilizing Charcoal as a Fuel.
Claims use since Mar. 13, 1950.

585,850. (Class 46. Foods and Ingredients of Foods.) Gordon L. Berry, Columbus, Ohio. Original filed, act of 1946, Principal Register, Oct. 27, 1950; amended to application, Supplemental Register, Sept. 22, 1952, Serial No. 605,460.

Berry's Magic

For Food Seasoning Composition in Powdered Form Composed of Salt, Pepper, Mono Sodium Glutamate, Horseradish, Mustard, Rosemary, Onion, Celery and Garlic Salt, Nutmeg, Thyme, and Paprika.
Claims use since Jan. 1, 1950.

585,851. (Class 39. Clothing.) H. D. Baskind & Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 13, 1950; amended to application, Supplemental Register, Nov. 29, 1952, Serial No. 606,256.

KUFF-LINK

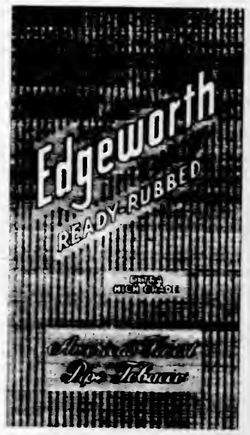
For Men's and Boys' Outer Shirts and Dress Shirts.
Claims use since Aug. 4, 1950.

585,852. (Class 37. Paper and Stationery.) West Virginia Pulp and Paper Company, New York, N. Y. Original filed, act of 1946, Principal Register, May 19, 1951; amended to application, Supplemental Register, May 20, 1953, Serial No. 614,114.

STERLING ENAMEL

For Coated Book and Magazine Paper.
Claims use since 1906.

585,853. (Class 17. Tobacco Products.) Larus & Brother Company, Richmond, Va. Original filed, act of 1946, Principal Register, July 16, 1951; amended to application, Supplemental Register, Sept. 1, 1953, Serial No. 616,560.



Applicant claims ownership of Registrations Nos. 128,095, 180,799, and others.
For Tobacco and Tobacco Products—Namely, Smoking and Chewing Tobacco.
Claims use since September 1942.

585,854. (Class 46. Foods and Ingredients of Foods.) Eisenhart's Dairy, Inc., York, Pa. Original filed, act of 1946, Principal Register, Sept. 4, 1951; amended to application, Supplemental Register, Nov. 27, 1953, Serial No. 618,349.

SQUEEZ-IT

For Flavored Water Ice and Sherbet.
Claims use since April 7, 1950.

585,855. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Northwest Mfg. Co., Mitchell, S. Dak. Original filed, act of 1946, Principal Register, Oct. 18, 1951; amended to application, Supplemental Register, July 9, 1952, Serial No. 620,168.

QUIK-HEAT
OIL BURNER

For Liquid Fuel Burning Attachment for Solid or Gaseous Fuel Burning Domestic Stoves, Furnaces and Boilers Used in the Home.
Claims use since April 1947.

585,856. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Robert Halsey Henderson, doing business as Henderson Electric Company, East Orange, N. J. Original filed, act of 1946, Principal Register, Dec. 22, 1951; amended to application, Supplemental Register, Apr. 13, 1953, Serial No. 622,775.

"ELBENDER"

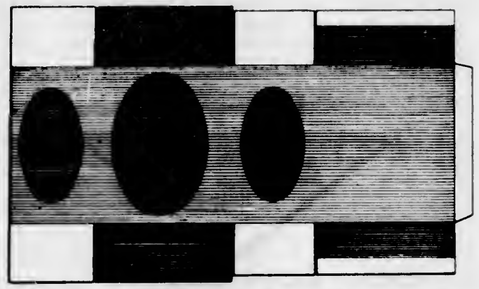
For Hand Manipulated Benders for Thin Wall Tubular Conduits.
Claims use since August 1950.

585,857. (Class 37. Paper and Stationery.) Isgo Wall Paper Corporation, Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 18, 1952; amended to application, Supplemental Register, Oct. 5, 1953, Serial No. 623,766.

REDI-2-HANG

For Wall Paper.
Claims use since Dec. 27, 1951.

585,858. (Class 37. Paper and Stationery.) Marcalus Manufacturing Co. Inc., East Paterson, N. J. Original filed, act of 1946, Principal Register, Jan. 28, 1952; amended to application, Supplemental Register, Sept. 25, 1953, Serial No. 624,200.



The lining on the drawing represents the colors pink and maroon. No claim is made to the representation of the container.
For Paper Handkerchiefs.
Claims use since Apr. 17, 1951.

585,859. (Class 40. Fancy Goods, Furnishings, and Notions.) The Boye Needle Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Feb. 23, 1952; amended to application, Supplemental Register, Oct. 7, 1953, Serial No. 625,396.

But-N-Pins

For Pins for Shank Buttons.
Claims use since Feb. 16, 1952.

585,860. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Rolf L. Anderson Mechanical Laboratories, Montclair, N. J. Original filed, act of 1946, Principal Register, Mar. 5, 1952; amended to application, Supplemental Register, Oct. 7, 1953, Serial No. 625,953.

THINFLX

For Dust Pans.
Claims use since July 7, 1950.

585,861. (Class 31. Filters and Refrigerators.) The Philadelphia and Reading Coal and Iron Company, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Apr. 30, 1952; amended to application, Supplemental Register, Mar. 24, 1953, Serial No. 628,955.

PHILTERKOL

For Anthracite Porous Media Used as a Filtering Agent.
Claims use since Mar. 19, 1952.

585,862. (Class 10. Fertilizers.) Druid Hill Park Seed Corporation, Baltimore, Md. Original filed, act of 1946, Principal Register, June 17, 1952; amended to application, Supplemental Register, Nov. 24, 1953, Serial No. 631,276.

BARE SPOT Rx

For Preparation for Seeding, Fertilizing, and Conditioning Soil.
Claims use since May 1952.

585,863. (Class 39. Clothing.) M. and D. Simon Company Incorporated, Cleveland, Ohio. Original filed, act of 1946, Principal Register, June 27, 1952; amended to application, Supplemental Register, Nov. 16, 1953, Serial No. 631,877.

KIMBERLY

For Men's Sport Shirts and Neckties.
Claims use since May 1950.

585,864. (Class 52. Detergents and Soaps.) Magnaflux Corporation, Chicago, Ill. Original filed, act of 1946, Principal Register, July 5, 1952; amended to application, Supplemental Register, Nov. 27, 1953, Serial No. 632,163.

Spotcheck

For Cleaners, Colored Penetrants, and Developers Both in Dry, Powdered Form and in the Form of Liquid Suspensions for Use in Non-Destructive Testing for Surface Discontinuities.
Claims use since Mar. 17, 1952.

585,865. (Class 24. Laundry Appliances and Machines.) Proctor Electric Company, Philadelphia, Pa. Original filed, act of 1946, Principal Register, July 18, 1952; amended to application, Supplemental Register, May 25, 1953, Serial No. 632,742.

Windsor

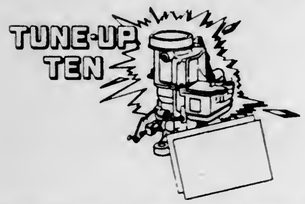
For Ironing-Board Pad and Cover Sets, and Ironing Tables.
Claims use since Sept. 29, 1950.

585,866. (Class 13. Hardware and Plumbing and Steam Fitting Supplies.) The Special Screw Products Company, Bedford, Ohio. Original filed, act of 1946, Principal Register, July 23, 1952; amended to application, Supplemental Register, Nov. 10, 1953, Serial No. 632,957.

Koncentrik

For Tube Couplings.
Claims use since on about Jan. 26, 1949.

585,867. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Precision Automotive Components Co., St. Louis, Mo. Original filed, act of 1946, Principal Register, Sept. 5, 1952; amended to application, Supplemental Register, Aug. 5, 1953, Serial No. 634,914.



The representation of the carburetor is disclaimed apart from the mark as shown in the drawing.
For Assorted Carburetor Repair Parts Packaged in Kits—Namely, Pump Jets, Pump Springs, Check and Cylinder Balls, Metering Jet Assemblies, Jet Tubes, Idle Adjustments, Idle Orifice Tube and Plug Assemblies, Needle and Seat Assemblies, Plunger and Rod Assemblies.
Claims use since Feb. 8, 1952.

585,868. (Class 10. Fertilizers.) Druid Hill Park Seed Corporation, Baltimore, Md. Original filed act of 1946, Principal Register, Oct. 6, 1952; amended to application, Supplemental Register, Nov. 24, 1953, Serial No. 636,210.

Anti-Moss
LAWN FIX

For Preparation for Seeding, Fertilizing, and Conditioning Soil.
Claims use since Sept. 23, 1952.

585,869. (Class 46. Foods and Ingredients of Foods.) Point Sal Growers and Packers, Guadalupe, Calif. Original filed, act of 1946, Principal Register, Oct. 10, 1952; amended to application, Supplemental Register, Dec. 14, 1953, Serial No. 636,491.

Point Sal

For Fresh Vegetables.
Claims use since Aug. 25, 1952.

585,870. (Class 46. Foods and Ingredients of Foods.) Manner Packing Corp., Maplewood, N. J. Original filed, act of 1946, Principal Register, Oct. 16, 1952; amended to application, Supplemental Register, Sept. 21, 1953, Serial No. 636,723.

Brice

For Canned Rice With Beef in Gravy.
Claims use since Sept. 12, 1952.

585,871. (Class 34. Heating, Lighting, and Ventilating Apparatus.) John Urschel, doing business under the name of Urschel Metal Products, Phoenix, Ariz. Original filed, act of 1946, Principal Register, Oct. 24, 1952; amended to application, Supplemental Register, Oct. 19, 1953, Serial No. 637,518.

AIR-O-FAN

For Ventilating Fans and Parts Thereof.
Claims use since Sept. 18, 1952.

585,872. (Class 34. Heating, Lighting, and Ventilating Apparatus.) John Urschel, doing business under the name of Urschel Metal Products, Phoenix, Ariz. Original filed, act of 1946, Principal Register, Oct. 24, 1952; amended to application, Supplemental Register, Oct. 19, 1953, Serial No. 637,519.



For Ventilating Fans and Parts Thereof.
Claims use since Sept. 18, 1952.

585,873. (Class 39. Clothing.) Mercury Sportswear, Inc., New Haven, Conn. Original filed, act of 1946, Principal Register, Nov. 7, 1952; amended to application, Supplemental Register, Nov. 9, 1953, Serial No. 637,782.

LOK 'N' ELASTIC
STITCHING

For Ladies' and Children's Bathing Suits.
Claims use since Oct. 27, 1952.

585,874. (Class 51. Cosmetics and Toilet Preparations.) The Lambert Company, doing business as John Hudson Moore Co., Division of The Lambert Company, Newark, N. J., and New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 13, 1952; amended to application, Supplemental Register, Nov. 19, 1953, Serial No. 637,999.

CAN YOU TOP THIS

For Cologne, After-Shaving Lotion, Hair Lotion, Talcum Powder, Bay Rum, Personal Use Deodorant, Foot Powder, Shaving Soap, and Sun-Screen Lotion.
Claims use since Oct. 29, 1952.

585,875. (Class 39. Clothing.) The La Resista Corset Company, Bridgeport, Conn. Original filed, act of 1946, Principal Register, Nov. 28, 1952; amended to application, Supplemental Register, Nov. 17, 1953, Serial No. 638,722.

THE WORLD'S BEST KEPT SECRET

For Brassières.
Claims use since on or about Oct. 1, 1952.

585,876. (Class 39. Clothing.) The Frank H. Lee Company, Danbury, Conn. Original filed, act of 1946, Principal Register, Dec. 19, 1952; amended to application, Supplemental Register, Nov. 6, 1953, Serial No. 639,760.

Quick-Change

For Hat Bands.
Claims use since July 28, 1952.

585,877. (Class 37. Paper and Stationery.) Weyerhaeuser Timber Company, Tacoma, Wash. Original filed, act of 1946, Principal Register, Dec. 27, 1952; amended to application, Supplemental Register, July 28, 1953, Serial No. 640,089.

WEYER-PAK

For Kraft Container Board.
Claims use since July 25, 1952.

585,878. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Claude E. Forston, Houston, Tex. Original filed, act of 1946, Principal Register, Jan. 5, 1953; amended to application, Supplemental Register, Aug. 19, 1953, Serial No. 640,334.

Lincoln

For Room Air Conditioning Units, Refrigerated Type.
Claims use since Oct. 1, 1949.

585,879. (Class 39. Clothing.) Shelburne Shirt Co. Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 19, 1953; amended to application, Supplemental Register, Nov. 25, 1953, Serial No. 640,967.

Claybourne

For Men's and Boys' Sport Shirts.
Claims use since September 1952.

585,880. (Class 32. Furniture and Upholstery.) American Traverse Co., New York, N. Y. Filed May 11, 1953, Serial No. 646,721.

SOLAREED

For Venetian Blinds, Window Shades, Window Cornice Boxes, Folding Screens for Domestic Divisional Purposes, Roll Up Blinds.
Claims use since Jan. 26, 1949.

585,881. (Class 32. Furniture and Upholstery.) New York Feather Co., Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, June 4, 1953; amended to application, Supplemental Register, Nov. 25, 1953, Serial No. 648,259.

Petite Pillow

No claim is made to the word "Pillow" apart from the mark as shown.
For Pillows and Cushions.
Claims use since Aug. 22, 1952.

585,882. (Class 8. Smokers' Articles, Not Including Tobacco Products.) The Reiss-Premier Corporation, West New York, N. J. Filed June 15, 1953, Serial No. 648,801.

WHITE BRIAR

For Smokers' Pipes.
Claims use since May 15, 1952.

585,883. (Class 46. Foods and Ingredients of Foods.) House of Huston, Inc., Coral Gables, Fla. Filed July 20, 1953, Serial No. 650,508.

Finer Dinner

Applicant claims ownership of Registration No. 576,879.
For Bird Seed, Fish Food, and Turtle Food.
Claims use since Mar. 27, 1952.

585,884. (Class 46. Foods and Ingredients of Foods.) "Pilotlab," Evans City, Pa. Filed Aug. 4, 1953, Serial No. 652,151.

"CAPSO-LETTES"

For Spices.
Claims use since Feb. 10, 1951.

TRADE-MARK REGISTRATIONS RENEWED

40,823. PERLINA. Registered July 28, 1903. James Pyle & Sons, New York, N. Y. Re-renewed July 28, 1953, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Washing Compounds. Class 52.

94,923. "PEQUOT" AND DESIGN. Registered Jan. 13, 1914. Naumkeag Steam Cotton Company, Salem, Mass., a corporation of Massachusetts. Re-renewed Jan. 13, 1954. Sheets and Pillow Cases. Class 42.

95,208. PAJAMETTE. Registered Feb. 3, 1914. Charles Eisenman Company. Re-renewed Feb. 3, 1954, to The Kaynee Company, Cleveland, Ohio, a corporation of Ohio. Sleeping Garments. Class 39.

95,667. "TANNATE" AND DESIGN. Registered Mar. 3, 1914. J. E. Rhoads & Sons, Philadelphia, Pa., and Wilmington, Del. Re-renewed Mar. 3, 1954, to J. E. Rhoads & Sons, Philadelphia, Pa., a firm. Flat Leather Belting, Rounded Leather Belting, Leather Cord, V-Shaped Belting, Cut Leather Lacing, and "Square" Leather Belting. Class 35.

95,723. LIBERTY. Registered Mar. 3, 1914. F. G. Vogt & Sons, Inc., Philadelphia, Pa. Re-renewed Mar. 3, 1954, to Oscar Mayer & Co., Inc., Austin, Minn., a corporation of Pennsylvania. Lard, Ham, Bacon, and Scrapple. Class 46.

95,968. "WHITMAN'S SAMPLER" ETC. AND DESIGN. Registered Mar. 24, 1914. Stephen F. Whitman & Son, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Mar. 24, 1954. Candy Confections. Class 46.

96,209. "COPALITE" AND DESIGN. Registered Apr. 7, 1914. United States Gutta Percha Paint Company, Saco, Maine, and Providence, R. I. Re-renewed Apr. 7, 1954, to Barreled Sunlight Paint Company, Providence, R. I., a corporation of Rhode Island. Varnishes. Class 16.

304,785. PROTIX. Registered July 18, 1933. Eclipse Machine Company. Renewed July 18, 1953, to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware. Unitary Electrical Starting Mechanism for Internal Combustion Engines and Parts Thereof and Circuit Controlling Mechanism Therefor, Automatic Starter Controllers and Backfire Circuit Breakers. Class 21.

307,366. "MOULIN ROUGE" AND DESIGN. Registered Oct. 24, 1933. Theonett & Co., Inc., Chicago, Ill. Renewed Oct. 24, 1953, to Lester Goldberg, doing business as Equity Distilled Spirits, Los Angeles, Calif. Champagnes and Wines. Class 47.

307,543. SENSATION. Registered Oct. 31, 1933. Liquid Veneer Corporation, Buffalo, N. Y., a corporation of New York. Renewed Oct. 31, 1953. Polish for Automobiles, Pianos, Furniture, and for Other Articles or Objects Having Smooth Surfaces, Etc. Class 4.

307,565. LA BOHÈME. Registered Oct. 31, 1933. Battista Cella, doing business as Roma Wine Company, Lodi, Calif. Renewed Oct. 31, 1953, to Schenley Industries, Inc., New York, N. Y., a corporation of New York. Wines. Class 47.

307,601. REALM. Registered Oct. 31, 1933. Household Products Co., Chicago, Ill. Renewed Oct. 31, 1953, to Household Products Company, Evanston, Ill., a corporation of Illinois. Canned Fish and Sea Food—Namely, Anchovies, Caviar, Clams, Etc. Class 46.

307,602. "ARTHEL" AND DESIGN. Registered Oct. 31, 1933. Arthel (Société d'Exploitation des Brevets Jacques Arthuys), Paris, France, a corporation organized under the laws of the Republic of France. Renewed Oct. 31, 1953. Automatic Heliostats and Reflectors Therefor. Class 34.

307,951. "TENNIS" AND DESIGN. Registered Nov. 14, 1933. Phenix Works, S. A., Flemalle-Haute, Belgium, a corporation organized under the laws of Belgium. Renewed Nov. 14, 1953. Galvanized Sheet Iron, Leaded Sheet Iron and Galvanized Hoop Iron. Class 14.

307,952. "MINERVA" AND DESIGN. Registered Nov. 14, 1933. Phenix Works, S. A., Flemalle-Haute, Belgium, a corporation organized under the laws of Belgium. Renewed Nov. 14, 1953. Galvanized Sheet Iron. Class 14.

308,181. HY-LO. Registered Nov. 21, 1933. Jenkins Bros., New York, N. Y. Renewed Nov. 21, 1953, to Jenkins Bros., New York, N. Y., and Bridgeport, Conn., a corporation of New Jersey. Valved Nozzles. Class 13.

308,853. "PELLETEX" AND DESIGN. Registered Dec. 26, 1933. General Atlas Carbon Company, New York, N. Y. Renewed Dec. 26, 1953, to Godfrey L. Cabot, Inc., Boston, Mass., a corporation of Massachusetts. Carbon Black Having a General Use in the Industrial Arts. Class 6.

309,316. "PRES-TO-LOGS". Registered Jan. 9, 1934. Wood Briquettes Inc., Lewiston, Idaho, a corporation of Delaware. Renewed Jan. 9, 1954. Fuel Briquettes, Etc. Class 1.

310,844. SANICOLD. Registered Mar. 13, 1934. The Hecht Co., doing business as The Hub and Hecht Bros., Washington, D. C., and Baltimore, Md. Renewed Mar. 13, 1954, to The Hecht Co., Washington, D. C., a corporation of Maryland. Household and Store Refrigerators for the Preservation of Foodstuffs. Class 31.

311,268. PRIM-A-TOX. Registered Mar. 20, 1934. White Pine Sash Company, Spokane, Wash., a corporation of Washington. Renewed Mar. 20, 1954. Primed and Treated Lumber, Finished Lumber and Millwork Including Door and Window Frames, Doors and Sash, or Parts Thereof, or Certain Portions Thereof. Class 12.

311,562. "BEAUTYGLO" ETC. AND DESIGN. Registered Mar. 27, 1934. Martin C. Schwab. Renewed Mar. 27, 1954, to The First National Bank of Chicago, executor and trustee under the will of Martin C. Schwab, deceased, Chicago, Ill., a national banking association. Shampoo. Class 52.

311,684. "SAFETY-SERVICE" ETC. AND DESIGN. Registered Apr. 3, 1934. Hofheimer's, Inc., Norfolk, Richmond, and Portsmouth, Va. Renewed Apr. 3, 1954, to Hofheimer's, Inc., Norfolk, Va., a corporation of Virginia. Shoes of Leather, Rubber, Fabric and/or Combinations Thereof. Class 39.

311,939. FLEISCHMANN'S. Registered Apr. 10, 1934. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Apr. 10, 1954. Dough Improver—i. e., a Composition or Compound Used as an Ingredient of Bread To Improve the Quality Thereof. Class 46.

311,949. BORDER DESIGN. Registered Apr. 10, 1934. The Colorado Milling & Elevator Company, Denver, Colo., a corporation of Colorado. Renewed Apr. 10, 1954. Self-Rising Flour. Class 46.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

191,543. ARISTOCRAT. Registered Nov. 11, 1924. F. E. Booth Co., San Francisco, Calif., Canned Fruit. Class 46. Canceled Dec. 4, 1953. Canc. No. 5718.

282,641. "IN-CEL-WOOD" AND DESIGN. Registered Apr. 28, 1931. Cornell Wood Products Company, Chicago, Ill. Fiber Thermal Insulating Board. Class 12. Canceled Dec. 11, 1953. Canc. No. 5864.

351,042. "V. LOEWER'S GAMBRINUS BREWERY CO." AND DESIGN. Registered Oct. 19, 1937. V. Loewer's Gambrinus Brewery Co., New York, N. Y. Beer and Ale. Class 48. Canceled Dec. 11, 1953. Canc. No. 6060.

373,286. "LOEWERS" AND DESIGN. Registered Dec. 5, 1939. V. Loewer's Gambrinus Brewery Co., New York, N. Y. Beer, Ale, and Stout. Class 48. Canceled Dec. 11, 1953. Canc. No. 6060.

387,131. LUCKY BREAKS. Registered May 6, 1941. Break Enterprises, Inc., New York, N. Y. Candy Bars. Class 46. Canceled Dec. 11, 1953. Canc. No. 6104.

423,903. BIRCH. Registered Sept. 10, 1946. District of Columbia Paper Mills, Inc., Washington, D. C. Blotting Paper, Box Cover Paper, Etc. Class 37. Canceled Dec. 18, 1953. Canc. No. 6131.

428,220. "MILLION AIR" AND DESIGN. Registered Mar. 11, 1947. U. S. Fiber & Plastics Corp., Stirling, N. J. Bags Made of Plastic Sheeting. Class 2. Canceled Jan. 12, 1954. Canc. No. 6151.

503,806. JAMA-SLACK. Registered Nov. 9, 1948. Rensello Company, Inc., New York, N. Y. Pajamas for Men, Women, and Boys. Class 39. Canceled Dec. 11, 1953. Canc. No. 5931.

504,874. PELLET. Registered Dec. 14, 1946. Glenn R. Ingels, doing business as Pellet Feed & Fertilizer Co., Houston, Tex. Fertilizer for Fertilizing Soil. Class 10. Canceled Dec. 4, 1953. Canc. No. 6140.

515,067. NATIONAL. Registered Sept. 13, 1949. International Paint Company, Inc., New York, N. Y. Ready-Mixed Paint. Class 16. Canceled Jan. 13, 1954. Section 7(d).

537,124. BERT THE SQUIRT. Registered Jan. 30, 1951. Satisfactory Sales Co., Los Angeles, Calif. Pliable Plastic or Rubber Frog Adapted To Squirt Water. Class 22. Canceled Dec. 11, 1953. Canc. No. 6124.

537,439. GRO-CROP. Registered Apr. 8, 1952. Gro-Crop, Inc., Summerdale, Ala. Liquid Fertilizer. Class 10. Canceled Jan. 12, 1954. Canc. No. 5982.

537,508. FOGSECT. Registered Apr. 15, 1952. Spray Incorporated, East Orange, N. J. Aerosol Type Liquid Insecticide. Class 6. Canceled Dec. 4, 1953. Canc. No. 5955.

538,085. "21" AND DESIGN. Registered Apr. 22, 1952. Ayres and Roberts, doing business under the fictitious name and style of Quality Frozen Co., San Francisco, Calif. Frozen Green Peas. Class 46. Canceled Jan. 12, 1954. Canc. No. 5917.

564,042. "SUNCHERO BY PETER MORTON" AND DESIGN. Registered Sept. 16, 1952. Peter Morton Leisurewear, Inc., New York, N. Y. Men's Coats, Suits, and Overcoats. Class 39. Canceled Dec. 11, 1953. Canc. No. 6126.

577,803. FLAVOR RICH. Registered July 21, 1953. Select Citrus Growers, Inc., Fullerton, Calif. Fresh Oranges. Class 46. Canceled Jan. 12, 1954. Canc. No. 6148.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

100,463. ELEKTRA. Registered Oct. 20, 1914. Renewed Oct. 20, 1934. E. Wertheimer et Cie., Paris, France. Perfumery Etc. Class 51 (formerly Class 6). New certificate under section 7(c) issued Feb. 16, 1954, to Barbara Gould, Inc., New York, N. Y., a corporation of New York.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

63,690. VIYELLA. Registered July 2, 1907. William Hollins and Company, Limited, Mansfield, Radford, Nottingham, Bridgeton, and London, England, and Glasgow, Scotland. Woolen Piece Goods and Hair Cloth. Class 42. Amended as follows: In the certificate, line 8; in the heading to the drawing; in the heading to the registration; and in column 2, line 5 of the statement, "woolen piece goods and hair cloth" is deleted and *piece goods composed of a mixture of wool and cotton* is inserted in lieu thereof; and in column 2, lines 1 and 2, "Textiles not otherwise classified" is deleted and *Knitted, netted, and textile fabrics, and substitutes therefor* is inserted in lieu thereof.

292,823. DISCOLITE. Registered Mar. 29, 1932. Royce Chemical Company, Carlton Hill, N. J. Hydrosulphides for Textile Purposes. Class 6. Corrected as follows: In the statement, lines 9 and 10, "hydrosulphides" should be *hydrosulphites*.

381,667. SURETY SHORT-KNITS. Registered Oct. 1, 1940. The May Department Stores Company, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; and Denver, Colo.; also doing business as Famous-Barr Company, St. Louis, Mo. Men's, Boys', and Youths' Shorts, Etc. Class 39. Amended as follows: In the statement, line 12, '"jockey" shorts,' is deleted.

500,644. SULFONAMETS. Registered June 15, 1948. The National Drug Company, Philadelphia, Pa. Lozenges Containing Sulfathiazole, Etc. Class 18 (formerly Class 6). Amended as follows: In the statement the description of goods is deleted and *lozenges containing a sulpha drug, an epithelial growth stimulant and a local anesthetic, used in the prophylaxis and treatment of infections of the oral and pharyngeal mucosa* is inserted in lieu thereof.

547,022. HYDRO-VARI. Registered Aug. 21, 1951. Twin Disc Clutch Company, Racine, Wis. Combination Unit Including a Hydraulic Power Transmission Coupling, Etc. Class 23. Amended as follows: In the statement, line 7, after "unit" *for non-vehicular use* is inserted.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 310,755. Registered Mar. 6, 1934. Ambler Asbestos Shingle & Sheathing Company, Ambler, Pa. Republished by Keasbey & Mattison Company, Ambler, Pa., a corporation of Pennsylvania.

TIP TOP

For Asbestos Cement Shingles.
Claims use since about June 1, 1933.

Reg. No. 327,229. Registered Aug. 20, 1935. Keasbey & Mattison Company, Ambler, Pa., a corporation of Pennsylvania. Republished by registrant.

Spraybestos

For Asbestos Product Supplied in Loose, Granulated, and Powdered Form for Insulating Purposes, Thermal Insulation, Hot and Cold Insulation, Fireproofing, and Sound Deadening.
Claims use since about January 1935.

Reg. No. 365,563. Registered Mar. 14, 1939. Keasbey & Mattison Company, Ambler, Pa., a corporation of Pennsylvania. Republished by registrant.



The words "Tile" and "Asbestos-cement," the term "Trafford," and the representation of the roofing are disclaimed apart from the mark as shown.
For Asbestos-Cement Boards, Asbestos-Cement Sheets, Asbestos-Cement Lumber, Tiles Made From Asbestos-Cement, Asbestos-Cement Roofing Materials, and Composition of Asbestos-Cement Building Materials in Flat, Corrugated, and Sheet Form.
Claims use since about Mar. 1, 1938.

Reg. No. 397,198. Registered Aug. 25, 1942. Keasbey & Mattison Company, Ambler, Pa., a corporation of Pennsylvania. Republished by registrant.

K & M "CENTURY" LAPSTRAKE SIDING

The words "Lapstrake" and "Siding" are disclaimed apart from the mark as shown.
For Fire-Resistant Building Boards, Insulating and Sound-Deadening Boards, Composition Boards, and Particularly Adapted for Use as a Building Material, Partitions, Steamship Interior Construction Materials, and for Other Building and Construction Purposes.
Claims use since Dec. 17, 1941.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 246,002. Registered Aug. 28, 1928. Cyclops Steel Company, Inc., Titusville, Pa. Republished by Universal-Cyclops Steel Corporation, Bridgeville, Pa., a corporation of Pennsylvania.

"ULTRADIE"

For Steels.
Claims use since Feb. 1, 1928.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 235,625. Registered Nov. 22, 1927. Asbestos Shingle, Slate & Sheathing Company, Ambler, Pa. Republished by Keasbey & Mattison Company, Ambler, Pa., a corporation of Pennsylvania.

AMBLEROID

For Cold Molded Material for Electrical Insulation.
Claims use since May 4, 1927.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 89,131. Registered Nov. 12, 1912. Minerva Motors, Berchem, near Antwerp, Belgium. Republished by Societe Anonyme Societe Nouvelle Minerva, Liege, Belgium, a corporation organized under the laws of Belgium.



For Transmission Apparatus and Explosion-Motors for Motor-Cars, Motor-Cycles, and Aeroplanes.
Claims use since 1897.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 363,274. Registered Dec. 20, 1938. The Brown Instrument Company, Philadelphia, Pa. Republished by Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware.

Electr-o-Line

For Measuring and Controlling Instruments and Apparatus, for Automatically Controlling an Operation Responsively to the Fluctuations of a Variable Condition.
Claims use since on or about Nov. 2, 1937.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Reg. No. 264,918. Registered Dec. 10, 1929. Whiting-Adams Company, Boston, Mass. Republished by Whiting-Adams Company, Inc., Boston, Mass., a corporation of Massachusetts.

DECCO

For Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about July 6, 1928.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 305,558. Registered Aug. 22, 1933. Hugo Gernsback, doing business as Sexology Magazine, New York, N. Y. Republished by registrant.

SEXOLOGY

For Monthly Publications.
Claims use since Apr. 15, 1933.

Reg. No. 441,350. Registered Nov. 16, 1948. Georgia Hardwood Lumber Company, Augusta, Ga. Republished by Georgia-Pacific Plywood Company, New York, N. Y., a corporation of Georgia.



For Periodical Publication Pertaining to the Lumber Industry.
Claims use since July 25, 1938.

Reg. No. 444,055. Registered June 27, 1950. Keasbey & Mattison Company, Ambler, Pa., a corporation of Pennsylvania. Republished by registrant.



The word "News" is disclaimed apart from the mark as shown.
For Publication in the Nature of a House Organ and Dealing Especially With News Items Relating to Roofing, Siding, and Asbestos Building Products.
Claims use since about Oct. 1, 1946.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 372,008. Registered Oct. 17, 1939. Nashua Manufacturing Company, Boston, Mass. Republished by Chatham Manufacturing Company, Elkin, N. C., a corporation of North Carolina.

Purrey

For Blankets Made of Cotton, Wool, or Synthetic Fibre, and Any Combination Thereof.
Claims use since June 5, 1939.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 61,349. Registered Mar. 19, 1907. Hawley & Hoops, New York, N. Y. Republished by Hollywood Brands, Inc., Centralia, Ill., a corporation of Minnesota.

TEDDY BEARS

For Candy, Chocolates, and Bonbons.
Claims use since Nov. 26, 1906.

Reg. No. 244,073. Registered July 10, 1928. Pillsbury Flour Mills Company, Minneapolis, Minn. Republished by Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware.

PROTECTOR

For Wheat Flour.
Claims use since on or about May 31, 1923.

Reg. No. 424,956. Registered Oct. 29, 1946. The Midland Grocery Company, Columbus, Ohio, a corporation of Ohio. Republished by registrant.

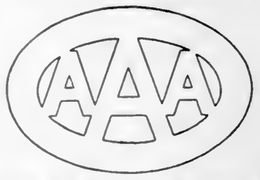
Clarion

For Canned Fruits, and Vegetables, Canned Fish, Canned Soup, Fruit Preserves, Coffee, Spices, Mince Meat, Pickles, Olives, Salad Dressing, Vinegar, Table Syrup, Salt, Catsup, Breakfast Cereals, Mustard, and Peanut Butter.
Claims use since Oct. 8, 1945.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Reg. No. 303,862. Registered June 13, 1933. The American Automobile Association, Washington, D. C., a corporation of Connecticut. Republished by registrant.



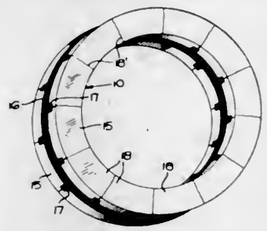
For Road Signs Not Electrical, Emblems, and Badges.
Claims use since 1910.

REISSUES

FEBRUARY 16, 1954

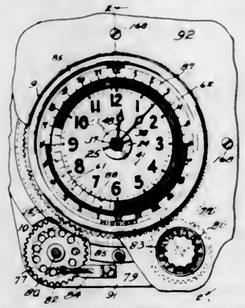
Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,782
FRANGIBLE PISTON RING
Edgar W. Patterson, Downey, Calif.
Original No. 2,626,193, dated January 20, 1953, Serial No. 101,618, June 27, 1949. Application for reissue May 7, 1953, Serial No. 353,705
11 Claims. (Cl. 309—29)



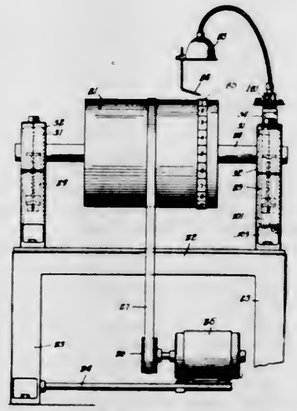
1. A laminated piston ring comprising a pair of metallic annuli, and an intermediate bonding layer formed of flexible material and designed to hold said annuli together, the opposing faces of said annuli being formed with radially extending grooves which receive the bonding material, and the annuli being separated into circumferential segments, said lines of separation extending longitudinally of the radial grooves.

23,783
DEMOUNTABLE TIME SWITCH UNIT FOR UNIVERSAL USE
Raymond D. Smith, Easton, Conn.
Original No. 2,508,896, dated May 23, 1950, Serial No. 600,557, June 20, 1945. Application for reissue December 14, 1950, Serial No. 200,820
32 Claims. (Cl. 200—36)



1. A time telling electric circuit controlling appliance adapted to be detachably mounted as an exchangeable unit on a support wall, proximate a sight aperture therein, embodying in combination with a clock face, clockwork including a time-of-day telling clock hand cooperative with said clock face rotatable about an axis in position to be observed through said sight aperture, enclosing structure housing said clockwork, framework supporting said clockwork without the instrumentality of said enclosing structure including a partition to which at least part of said enclosure structure is detachably joined equipped to derive full support from said wall without the instrumentality of said enclosing structure said partition being directed crosswise of said axis within said enclosing structure and containing a frame hole, a ring-like time setting device bordering said frame hole and carried by said partition in a manner to be rotatably adjustable about said axis while positioned to be observed through said sight aperture, and electric current switching mechanism controllably related to said clockwork and deriving its support from said framework without the instrumentality of said enclosing structure including a contact member arranged to be settable adjustably around said axis by rotary movement of said time setting device.

23,784
BALANCE TESTING APPLIANCE
Ira A. Weaver and Clyde H. Phelps, Springfield, Ill., assignors, by mesne assignments, to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin
Original No. 2,486,896, dated November 1, 1949, Serial No. 617,772, September 21, 1945. Application for reissue October 30, 1950, Serial No. 192,991
17 Claims. (Cl. 73—66)



15. In a balance-indicator, for use on a balance-testing machine in which the revolving rotor undergoing test vibrates in a given axial plane by reason of its unbalance, the combination of a mounting for attachment to said machine to be vibrated in consonance with the unbalance vibration of the rotor, means carried by said mounting and providing a pivotal vertical axis extending transverse to the direction of the vibration of the rotor in said axial plane, inertia-weight means carried by said first named means and having a moment relative to said pivotal axis with its center of mass offset from said axis in a direction at an angle to the direction of said vibrations and at an angle to a plane which includes said vertical axis and which is perpendicular to the axis of said rotor whereby said inertia-weight means oscillates about said axis

free from gravitational interference, means to adjust the effective moment of said inertia-weight means, means on said mounting displaying a scale graduated in opposite directions from an intermediate zero-graduation, a movable pointer coacting with said scale, means to actuate said pointer in response to the oscillation of said inertia-weight means, and opposed spring means to bias said inertia-weight means to a neutral static position with the pointer at zero-graduation on the scale.

23,785

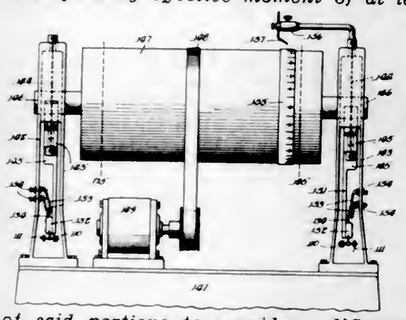
BALANCE TESTING APPLIANCE

Ira A. Weaver and Clyde H. Phelps, Springfield, Ill., assignors, by mesne assignments, to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin

Original No. 2,487,035, dated November 1, 1949, Serial No. 606,050, July 20, 1945. Application for reissue October 30, 1950, Serial No. 192,992

27 Claims. (Cl. 73—66)

23. In a machine of the class described for indicating the unbalance of a rotor by utilizing forces resulting from unbalance vibrations of the rotor during rotation, a support for an unbalanced rotor permitting vibratory motion thereof about a point, a vibration pick-up device mounted rigidly on said rotor support to receive said vibratory motion of the rotor and comprising a frame secured to said rotor support, inertia-weight means, means carried by said frame and supporting said inertia-weight means for rotational oscillation upon a substantially fixed pivotal axis extending transverse to the direction of said vibratory motion, the mass of said inertia-weight means having some portion thereof on each side of said last named axis relative to the direction of force tending to vibrate the axis to provide an effective moment arm for each portion of said inertia-weight means extending at an angle to a plane normal to the axis of the rotor, and means to adjust the corresponding effective moment of at least



one of said portions to provide a differential moment whereby a selected reference plane may be established for the rotor wherein unbalance in such plane does not oscillate the inertia-weight means and the latter is responsive only to rotor unbalance outside of said reference plane, resilient means coacting with said frame to bias said inertia-weight means to a predetermined normal position fixed relative to the direction of the effective vibratory force, and means responsive to the rotational oscillation of said inertia-weight means for indicating unbalance of the rotating rotor outside of said reference plane.

PLANT PATENTS

GRANTED FEBRUARY 16, 1954

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,251

ROSE PLANT

Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York

Application February 24, 1953, Serial No. 338,628

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized particularly as to novelty by having substantially the same relatively long-lasting quality of the blooms and the same general plant habits as the variety "Diamond Jubilee" (Plant Patent No. 824), but having more colorful buds and open blooms and more numerous petals than those of "Diamond Jubilee."

1,252

ROSE PLANT

Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York

Application February 24, 1953, Serial No. 338,629

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class and bi-color type, substantially as herein shown and described, characterized particularly as to novelty by the vigorous habit of the plant, and by the sharp combination of yellow and gold colors of the petals as they appear before the flowers open, changing to red as the flowers open to full bloom, by the relatively large size of the flowers, and by the peculiar misshapen petal form which usually occurs in the half-open bud.

1,253

ROSE PLANT

Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York

Application February 24, 1953, Serial No. 338,630

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the climber class, substantially as herein shown and described, characterized particularly as to novelty by its remontant and vigorous habits of growth, by its freedom of bloom in the early part of the growing season, as well as throughout the growing season thereafter, by its exceptional hardiness, and by the distinctive Rose Red general color tonality of its blooms.

1,254

ROSE PLANT

Herbert C. Swim, Ontario, Calif., assignor, by mesne assignments, to Stark Bro's Nurseries and Orchards Company, Louisiana, Mo., a corporation of Missouri

Application February 9, 1953, Serial No. 336,028

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized particularly as to novelty by its unique combination of the very vigorous, much-branched and erect habits of its growth, the very long, flowering stems and the presence of very few prickles thereon and few prickles generally on the entire plant, the continuity of its bloom, the abundance of its large, glossy foliage, and the distinctive color and very double petalage of its blooms.

1,255

ROSE PLANT

Herbert C. Swim, Ontario, Calif., assignor, by mesne assignments, to Breedlove Nurseries, a partnership

Application February 9, 1953, Serial No. 336,029

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized particularly as to novelty by its unique combination of vigorous, much-branched and upright habits of growth, its relatively few prickles on its flowering stems, the longer-than-average flowering stems and peduncles, the abundance of its leathery and semi-glossy foliage, and the distinctive color and very double petalage of its blooms.

1,256

NECTARINE TREE

Grant Merrill, Red Bluff, Calif.

Application January 12, 1953, Serial No. 330,932

1 Claim. (Cl. 47—62)

A new and distinct variety of nectarine tree, as described and illustrated, characterized—in comparison to the John Rivers variety of nectarine—by semi-freestone fruit having a ripening period approximately ten days earlier than said John Rivers nectarine; by fruit having highly colored skin, the latter being yellow overlaid to a major extent with mahogany red; and by fruit which is relatively large size, round, and having yellow flesh whose texture is medium, firm, and crisp.

1,257

PEACH TREE

Grant Merrill, Red Bluff, Calif.

Application February 9, 1953, Serial No. 336,027

1 Claim. (Cl. 47—62)

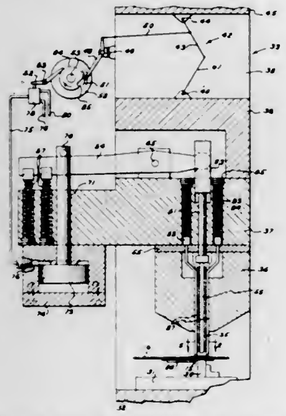
A new and distinct variety of peach tree, as described and illustrated, bearing large, firm, brilliantly colored, yellow fleshed, freestone fruit; characterized by a ripening period immediately following the Rio Oso Gem peach; by higher colored fruit than said Rio Oso Gem peach; and by fruit which more closely resembles that of the Candoka peach than any other, especially as to color and smoothness of the skin.

PATENTS

GRANTED FEBRUARY 16, 1954

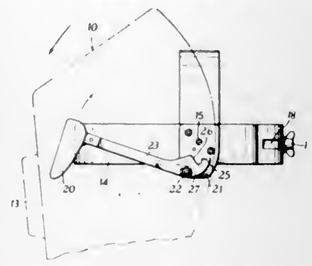
GENERAL AND MECHANICAL

2,668,950
APPARATUS FOR APPLYING TERMINALS TO ELECTRICAL CONDUCTOR WIRES
Edward J. Bohaboy, Berwyn, and Charles J. Roach, Oak Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 9, 1951, Serial No. 219,934
7 Claims. (Cl. 1—170)



1. An apparatus for clinching U-shaped prong-type terminals around conductor cords comprising a lower tool for supporting the U-shaped terminal therein with the prong and the ends of the terminal directed upwardly in a position to receive a conductor cord between the ends of the terminal and on the prong, an upper tool having a recessed end providing relatively fixed forming surfaces engageable with the ends of said terminal for completely forming the end portions of the terminal around the conductor cord, means mounting said tools for movement of one relative to the other, drive means for reciprocating said one tool, a plunger mounted on said upper tool for movement relative thereto for pressing the cord onto the prong of the terminal, means for limiting the movement of the plunger to and from a retracted position with the end of the plunger flush with the forming surfaces of the upper tool and a forward position with the end of the plunger in advance of said forming surfaces, and means operable in timed relation to said drive means for moving the plunger to said forward position and retaining said plunger in a forward position during a portion of each movement of said one tool towards the other tool to press the cord onto the prong of the terminal and to move said plunger substantially instantaneously to said retracted position after the cord has been pressed onto the prong and prior to the clinching of the ends of the terminal around the cord by the upper tool and to retain the plunger in said retracted position during the remainder of said movement of said one tool toward the other tool and the forming of the ends of the terminal around the cord.

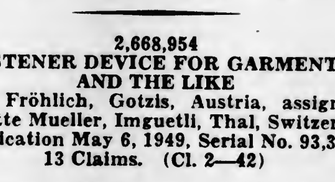
2,668,951
PROTECTIVE FACE SHIELD
Thomas Traill MacLean, London, England, assignor to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation
Application May 1, 1951, Serial No. 223,862
Claims priority, application Great Britain May 1, 1950
3 Claims. (Cl. 2—8)



1. A protective helmet of the kind comprising a head-engaging portion and a face-shield which is pivotally attached to the head-engaging portion, comprising an eyeshield, side arms to the eyeshield, the side arms being pivoted near their ends to the head-engaging portion, and the pivotal axis of the side arms being in front of and below that of the face-shield, a rearward extension to one of the side arms beyond its pivotal axis and a pin on the face-shield engageable with said rearward extension when the face-shield is in the lowered position in such manner as to maintain the eyeshield raised within the face-shield above the eyes of the wearer, the pin moving out of engagement with the rearward extension of the side arm when the face-shield is raised a given amount so as to allow the eyeshield to move downwards under its own weight until brought to rest by the bridge of the nose of the wearer and to be moved upwards by the wearer independently of the face-shield.

2,668,952
SPECTACLES ADJUSTABLE GLARE SHIELD MOUNTING
Gary K. Kobashikawa, Honolulu, Territory of Hawaii
Application April 8, 1952, Serial No. 281,139
2 Claims. (Cl. 2—13)

1. In combination, a glare shield, a pair of clips arranged in spaced aligned relation with respect to each other, each of said clips being provided with a pair of spaced apart ears, a bar extending through said ears, an eye member extending around said bar and provided with an extension, an elastic strip connected to the extension of said eye member, a hook member connected to said strip and adapted to engage the bridge of a pair of glasses, each of said clips being channel shaped in cross section and including an upper portion, spaced parallel arms depending from said upper portion, resilient means for normally urging said bar away from said portions, the ends of said bar



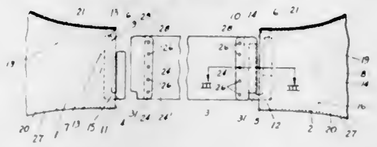
being provided with outwardly and downwardly extending sections secured to the corners of said shield.

2,668,953
FOUNDATION GARMENT
Ellen Hagberg Tofanelli, Mill Valley, Calif.
Application June 7, 1951, Serial No. 230,353
2 Claims. (Cl. 2—28)



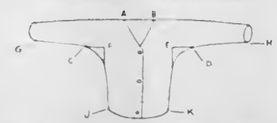
1. A close fitting body-encircling garment having connected resilient front and rear sides and a resilient waist band, the said garment having its maximum width where it extends around the hip joints of the wearer, the rear side comprising a buttocks-enclosing member secured to and depending from the waist band, such buttocks-enclosing member having similarly shaped concave portions adapted to firmly encase the fleshy convex portions of the wearer's buttocks, the said buttocks-enclosing member being joined at its sides to the front side of the garment, and a resilient pair of upper thigh-encircling members secured to and depending from the buttocks enclosing member and the front side of the garment, the said upper thigh encircling members and the concave portions of the buttocks-enclosing member being separated at the crotch portion of the garment by an opening extending to a point above the horizontal plane passing through the widest part of the garment.

2,668,954
FASTENER DEVICE FOR GARMENTS AND THE LIKE
Johann Fröhlich, Gotzis, Austria, assignor to Henriette Mueller, Imguetli, Thal, Switzerland
Application May 6, 1949, Serial No. 93,368
13 Claims. (Cl. 2—42)



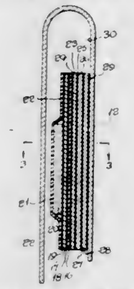
2. A brassière comprising a main body portion having oppositely disposed edges for securement to each other, an insert piece having opposite edges between the aforementioned edges, and fastener devices connecting each of the edges of the insert with an adjacent edge of the brassière, each of said devices comprising a mount of U-shaped cross-section receiving one of the adjacent insert piece and brassière edges between the walls thereof and secured thereto, said edge being spaced from the forward, unsecured edge of the mount to provide a longitudinally extending slot, a U-shaped hook member of sheet metal comprising two substantially parallel legs and a connecting bridge member, the hook member being secured to the other of the adjacent insert piece and brassière edges by one of its legs, the other leg thereof being constructed to be inserted in the said slot of the mount for interlocking the latter with the hook member.

2,668,955
BLOUSE CONSTRUCTION FOR DRESSES
Armigene Roderick Johnson, New York, N. Y.
Application November 27, 1951, Serial No. 258,356
4 Claims. (Cl. 2—74)



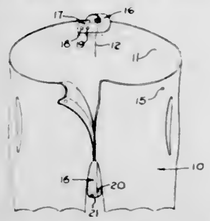
1. A woman's garment of unitary construction, comprising top and skirt portions meeting at a waist portion, the top portion being formed of three pieces of fabric, one of which is a back portion having at least one gusset in the region of an armhole, and the other two pieces of which are front portions, at least one of which is formed with a reentrant portion adapted to receive the gusset, and seams uniting the three pieces of fabric forming said top portions.

2,668,956
COLLAR STIFFENER
Harry Gordon, New York, N. Y.
Application March 7, 1952, Serial No. 275,393
6 Claims. (Cl. 2—132)



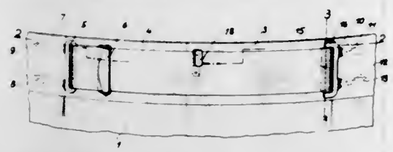
1. A collar supporter consisting of a resilient, semi-stiff layer of material shaped in the form of a "tear drop" with one end tapered to a point, a second layer of material having both of its surfaces coated with an adhesive substance, said second layer conforming to the shape of said semi-stiff layer and adhesively adhering thereto, a third layer of material with only one adhesively coated surface conforming to the shape of said second layer and attached thereto by means of the adhesively coated surface of said second layer facing said third layer, a fourth layer of material having a single, adhesively coated surface conforming to the shape of and attached to said third layer by means of the said adhesively coated surface of the third layer facing said fourth layer and with the adhesively coated surface of said fourth layer facing away from said resilient, semi-stiff layer.

2,668,957
TROUSER SUPPORT
George H. Schmidt, Milwaukee, Wis.
Application June 5, 1952, Serial No. 291,892
3 Claims. (Cl. 2—227)



1. In a pair of trousers having an annular waistband with an inner surface and a rear center seam coincident with and transverse to the central rear portion of the waistband: an elongated auxiliary elastic band normally overlying the rear and one side portion of said waistband inner surface and having one end connected to said waistband adjacent said rear seam, said auxiliary band having its other end portion removably connected to a side of said waistband portion remote from said rear seam, the portion of said auxiliary band between the trouser rear seam and that portion which is removably attached to a side of the waistband being elongated and looped for extension over the rear portion of the waistband through the crotch of the trousers and looped over the shoulder of a seated wearer in stretched condition when detached from the side of the waistband.

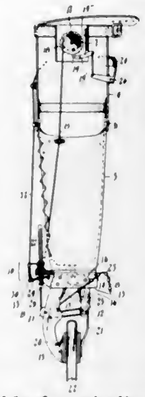
2,668,958
ADJUSTING STRAP FOR TROUSER WAISTS
Rudolf Hofmann, Dusseldorf, Germany
Application March 31, 1950, Serial No. 153,075
5 Claims. (Cl. 2—237)



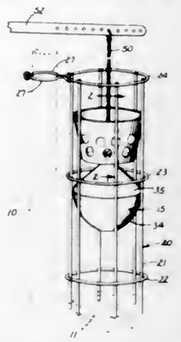
1. Means for adjusting the waist size of a garment comprising an adjustable strap having attaching means at the ends thereof, one of said attaching means including a loop for one end of the strap, at least one tab formed integrally with said loop extending perpendicularly with respect to the loop and adapted to project into an opening formed in the body of the garment, means on the tab for securing the tab within said opening, an anchoring element for the other end of the strap, at least one tab formed integrally with said anchoring element extending perpendicularly with respect to the anchoring element and adapted to project into another opening in the garment, and means on said last named tab for securing said tab within the opening in the garment.

2,668,959
ARTIFICIAL HAND
John Sargeson, Long Branch, Ontario, Canada
Application October 31, 1952, Serial No. 317,917
16 Claims. (Cl. 3—12.6)

10. An artificial hand comprising a fixed jaw, a relatively movable jaw, a support for attachment to the amputated limb of the wearer, said support having an outer part and an inner part connected at an elbow-forming juncture for bending movements to be performed at the will of the operator, said outer part carrying said jaws at its distal end, means for actuating said movable jaw including a cable connected to said movable jaw and extending to said inner part, a spring tensioned reel on said inner part and connected to said cable for winding and unwinding actions to keep the cable taut irrespective of elbow movement of said support, a ratchet device for locking said reel against unwinding so as to utilize an unbending movement of said outer part at the elbow to exert an operational pull on said cable, and releasable means carried by said outer part for securing the jaw end of said cable in pulled position.

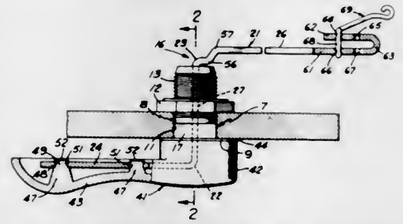


2,668,960
VALVE ARRANGEMENT FOR FLUSH TANKS
Hardinge Barrett-Lennard, Lyons, Ill.
Application April 13, 1951, Serial No. 220,900
5 Claims. (Cl. 4—57)



1. In combination, an open cylindrical frame for guiding a floating type ball valve, said frame comprising a number of vertical wires and spaced apart rings surrounding the wires and holding them in assembly, a ball valve freely movable vertically within the frame and guided in its vertical movement by the frame, ball tilt preventing means secured to the top of the ball for holding it upright, said tilt preventing means being movable within and guided by the frame to hold the ball valve against tilting, and a flexible cord type pull member secured to the ball and tilt preventing means assembly for raising it, said means for preventing tilting of the ball valve being cup-shaped and said pull member extending upwardly from the bottom of the cup whereby upon rising of the tank ball the cup acts as a receptacle for slack produced in the flexible pull member and prevents entanglement of the pull member with the rings.

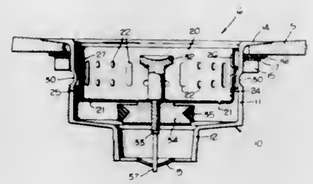
2,668,961
TOILET FLUSH TANK TRIP LEVER CONSTRUCTION
Jesse C. Owens, Los Angeles, Calif.
Application January 24, 1951, Serial No. 207,620
3 Claims. (Cl. 4—67)



1. In a toilet flush tank trip lever mechanism, a mounting bushing comprising a tubular shank and means for securing said bushing in position extending through a wall of a tank comprising a head rigid with the outer end of said bushing and a clamping nut threaded on the inner end of said bushing, a flat metal strip comprising an outer portion extending laterally from the outer end of said bushing, an inner portion extending laterally from the inner end of said bushing, an intermediate portion interconnecting said inner and outer portions and extending through said bushing and rockable therein about the axis thereof, and a portion extending radially from the inner end of said intermediate portion closely adjacent the inner end of said bushing to provide an abutment adapted to engage the inner end of said bushing and thereby limit outward axial movement of said intermediate portion with respect to said bushing means for connecting a flushing valve to said inner portion of said strip, a handle comprising a hub and an arm extending radially therefrom said hub and said arm both being of hollow, open back construction and enclosing and concealing, respectively, said bushing's head and said outer portion of said strip, and means for affixing said handle to said strip comprising a plurality of bosses projecting from the inner surface of said handle's arm and having lands in planar alignment with each other, and a pin projecting from each of said lands through and fitting within a hole in said outer portion of said strip, and an enlarged head on the outer end of each of said pins.

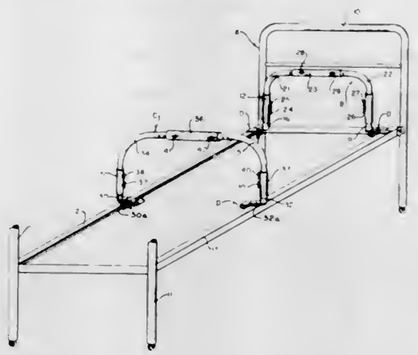
2,668,962
COMBINATION STRAINER AND STOPPER
Charles J. Spector, Los Angeles, Calif.
Application November 16, 1951, Serial No. 256,700
2 Claims. (Cl. 4—287)

1. A combination strainer stopper assembly comprising a cylindrical body shell having connected coaxial sections of larger and smaller diameters, fastening means to attach said shell to a sink, said large diameter section having an annular inwardly extending detent, said smaller diameter section having a downward and inward tapering wall, a cylindrical basket strainer having apertures therein and adapted to be positioned in said larger diameter section, leaf spring latch members having only the lower ends of the springs fastened to the lower parts of said strainer, said latch members having outwardly protruding cam portions extending through holes in the wall of said strainer, said protruding portions normally biased outwardly by the action of said springs whereby said latch members when acting on the upper side of said detent will hold the strainer in an up position and when acting on the under side of said detent will hold and force the strainer in a down position, a handle



fastened to said strainer to facilitate moving said strainer to either position, a stopper comprising a disc having a circumferential groove axially fastened to said strainer and a resilient washer member positioned in said groove, said protruding portions of said latch members acting on the under side of said detent to force said resilient member into contact with the tapered wall of said smaller diameter section when said assembly is in said down position.

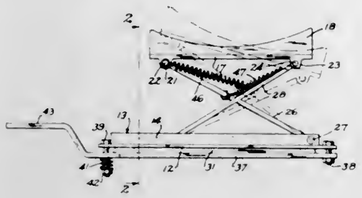
2,668,963
BEDCLOTHES SUPPORT FOR BEDSTEADS
Caddie Timmons Drake, Denver, Colo.
Application October 19, 1949, Serial No. 122,291
6 Claims. (Cl. 5—319)



1. An attachment for bedsteads for maintaining the bedclothes out of contact with the occupant of the bed, comprising a substantially U-shaped sectional support formed from tubular stock and adapted to be arranged transversely of the bedstead, said support including upright leg members having angularly disposed portions at their lower ends, means for receiving and connecting together the sections of said support, releasable means for holding the sections and connecting means together in adjusted positions whereby to permit the support to be expanded and contracted to fit beds of different sizes, and spring-like clamping members for removably and frictionally engaging the bed side rails and for removably receiving and supporting the angularly

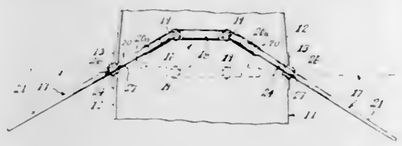
disposed portions of the leg members to maintain the sectional support in upright position transversely of the bedstead.

2,668,964
HEADREST MECHANISM FOR CREEPERS
Bert F. Simmons, Medford, Oreg.
Application January 22, 1952, Serial No. 267,617
3 Claims. (Cl. 5—327)



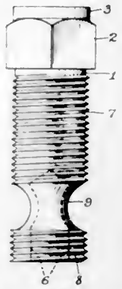
1. A head rest comprising a base; a head plate; first means interconnecting said base and head plate; said first means comprising first and second unconnected crossed levers pivotally attached to opposite ends of said head plate; said first lever being pivotally attached to said base; said second lever being movable along said base; second means adjustably positioning said second lever in a plurality of positions comprising a ratchet on said base and a pin on said second lever engageable with said ratchet in a plurality of positions; a spring biasing said pin and ratchet into mutual engagement; a handle manually operable to retract said pin and ratchet from mutual engagement; and resilient means extending from said head plate to each of said levers and a concave cushion on the upper side of said head plate.

2,668,965
DEVICE FOR ROWING A BOAT WITH ONE HAND
Forrest C. Mollenhauer, Center Point, Iowa
Application January 7, 1950, Serial No. 137,469
6 Claims. (Cl. 9—24)



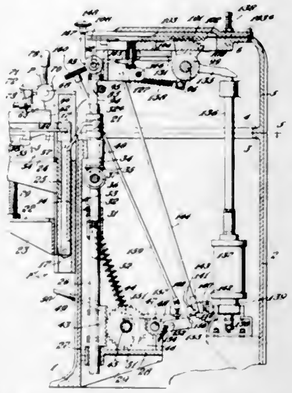
1. A device for rowing a boat with one hand comprising a pair of oarlocks mounted to pivot about spaced upright axes, each oarlock having a recess therein of non-circular cross section, an oar for each oarlock, each oar having an elongated oar shank extending through the recess in the oarlock with one portion of the oar disposed inboard of the oarlock and another portion of the oar disposed outboard of the oarlock, said oar shank and the portion of the oarlock which bounds said oarlock recess having cooperating portions which permit sliding longitudinal movement of the oar shank within the oarlock recess, said cooperating portions of the oar shank and oarlock being operative to substantially prevent rotation of the oar shank in the oarlock recess, and a hand grip connecting the inboard ends of said oars.

2,668,966
METHOD OF MAKING SELF-LOCKING SCREWS HAVING MISMATCHED THREADED SECTIONS
Webster D. Corlett, River Forest, and Charles G. Mackie, Chicago, Ill., assignors to Standard Screw Company, Hartford, Conn., a corporation of New Jersey
Application October 14, 1948, Serial No. 54,554
1 Claim. (Cl. 10—27)



The method of manufacturing a self-locking screw of the integral type comprising the steps of machining a screw blank with a cylindrical shank having a pair of axially spaced solid portions of substantially similar diameter interconnected by a reduced diameter solid portion, drilling a hole concentrically with the shank along its axis extending throughout the length of one of the larger diametered portions, throughout the length of the reduced diameter portion and throughout a portion of the length of the other larger diametered portion providing a thin walled annular section at the reduced diameter portion, rolling the thin walled annular section with inward radial force to provide a concaved circumferential wall portion and then rolling threads on the axially spaced larger diametered portions having an equal diameter with the helix of the thread on one portion axially displaced to the helix of the thread on the other portion.

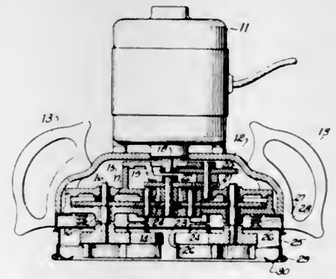
2,668,967
TOE LASTER
Jacob S. Kamborian, West Newton, and Frank Kaszynski, Wilmington, Mass.; said Kaszynski assignor to said Kamborian
Application August 20, 1948, Serial No. 45,225
32 Claims. (Cl. 12—12.4)



2. A toe lasting machine having a frame, a fixed wiper support carried by the frame, wipers

mounted on the support for movement in a substantially horizontal plane, means providing spaced guideways extending perpendicularly to the plane of movement of the wipers, a toe rest and means for guiding it for movement in a path substantially perpendicular to the plane of movement of the wipers, a carriage mounted to slide in said guideways, means connecting the carriage and toe rest for concomitant movement, a last jack supported by the carriage, the jack being movable in planes substantially parallel to the plane of movement of the wipers from front to rear and transversely relatively to the carriage, means for so moving the jack, and means for bodily moving the jack up and down relatively to the carriage.

2,668,968
MEAT BLOCK SCRUBBER
Joseph M. Dobrowolski, Chicago, Ill.
Application January 5, 1949, Serial No. 69,276
4 Claims. (Cl. 15—28)



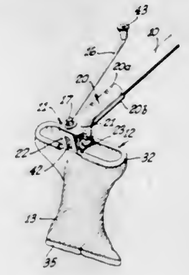
1. In a butcher block scrubber a plurality of rotatable brushes having their working faces lying substantially in a single plane, means for rotating said brushes about axes perpendicular to said plane, means for resiliently supporting said working faces of said brushes above the surface of a butcher block, said last mentioned means comprising a rigid and substantially cylindrical skirt member encircling said brushes and normally extending axially beyond said working faces of said brushes, said skirt member being imperforate along its sides thereby to retain debris thrown against its interior, and spring means urging said skirt member axially beyond said working faces of said brushes, said spring means being of such stiffness as to maintain the working surfaces of said brushes above the lip of said skirt member when said scrubber rests upon a horizontal surface.

2,668,969
MOP HAVING TRIANGULAR COMPRESSIBLE CLEANING ELEMENT
Harry B. Toombs, New York, N. Y.
Application December 20, 1949, Serial No. 133,980
1 Claim. (Cl. 15—119)

In a mop having a handle and a head on said handle the combination of two opposed pairs of plates oppositely positioned with respect to said handle and coupled to provide a parallel link motion, end walls pivotally supported on two of said plates in line with their point of pivotal connection, a compressible cleaning element mountable adjacent to said plates, a rod insertable through said element and mounted in said end walls receiving said rod, actuating portions secured in line with the other pivots of said plates, said actuating portions being movably mounted on said handle to shift said plates and cause said end walls to move inwardly towards each other whereby said compressible element may be compressed equally from both ends with said handle in a vertical position.

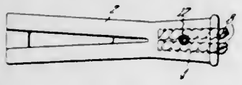


2,668,970
SELF-WRINGING MOP
Virgil Kenneth Cooper, Hollywood, Calif.
Application March 8, 1949, Serial No. 80,144
5 Claims. (Cl. 15—120)



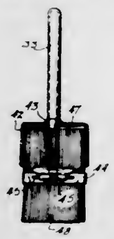
1. A self-wringing mop which includes: a handle; a head member attached rigidly to the forward end of said handle, said member having an aperture therethrough transverse of said handle and a vertical guide slot therein; a rigid holder extending laterally from said member and adapted to carry the upper edge of a mop cloth; a shaft rotatably mounted in said aperture; a stiffening rod extending outwardly through said guide slot and pivotally connected at its upper end to said shaft for free movement along the plane of said slot through operating position angled forwardly and rearwardly of said handle to a wringing position in substantial alignment with said shaft, the pivotal connection being on an axis perpendicular to said shaft axis, whereby said stiffening rod is rotatable with said shaft in the wringing position and is held against rotation in the operating positions by the edges of said guide slot; a lateral spreader connected to the free end of said rod and adapted to engage with the lower edge of said cloth; and an operating arm connected to said shaft above said head member to rotate said spreader when said rod is in the wringing position.

2,668,971
BRUSH
John F. Bagley, Jr., South Hadley, Mass., assignor to Stanley Home Products, Inc., Westfield, Mass., a corporation of Massachusetts
Application October 3, 1950, Serial No. 188,240
1 Claim. (Cl. 15—145)



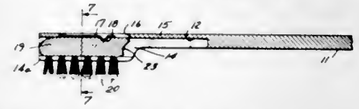
A brush construction comprising in combination, a handle provided with an open ended socket in one end thereof, the socket being rectangular in cross section and having opposite and adjacent flat side walls extending forwardly from a bottom wall to the one end of said handle, said handle being provided with an opening transversely therethrough and intersecting the socket, a pair of brush frame ends in the socket each including a pair of relatively twisted wires with the ends thereof in abutment with the bottom of the socket, upper and lower sides of the wires of said frame ends being flattened to lie against the opposite walls of the socket, adjacent inner sides of said frame ends provided with recesses in alignment with the opening in said handle, and means extending through the opening and recesses holding the frame ends in the socket.

2,668,972
REFILLABLE BROOM, BRUSH, AND THE LIKE
Gaetano Pignato, Brooklyn, N. Y.
Application July 20, 1950, Serial No. 174,837
2 Claims. (Cl. 15—172)



1. In an implement of the type including an elongate handle and a working means offset from an end of the handle and of the type wherein said working means is of the kind comprising a multiplicity of elongate flexible elements gathered or bundled together as in a paint brush or the like, the combination, with said elongate handle, of a hollow head, means for connecting said head to the handle, a reversible double-use refill, said refill incorporating two oppositely extended groups of said elongate elements, said refill being shaped and dimensioned for being mounted on the implement by partial insertion of the refill into the hollow head for then projecting beyond said head one only of said groups, and means partially carried by said refill for detachably thus mounting the refill with either of said groups as the one so projected beyond said head, said refill having a portion between said groups from opposite sides of which said groups are extended, said portion carrying the part of the last-named means partially carried by said refill, said part of said means including an internally threaded aperture through said portion, and said handle having an externally threaded end for being screwed into said aperture through either end thereof between said flexible elements, said part of said means further including a plurality of spaced projections on said portion of the refill.

2,668,973
TOOTHBRUSH HAVING A REMOVABLE HEAD
Vincent J. Glaza and William C. Glaza, Detroit, Mich.
Application December 18, 1947, Serial No. 792,450
3 Claims. (Cl. 15—176)



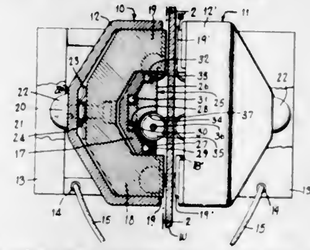
1. A tooth brush of the class described comprising a handle having a channel formed in one end thereof extending longitudinally of said handle and open at its outer end, a replaceable bristle bearing insert snugly slidable in said channel, said channel having a length of at least twice the length of said insert, the portion of said channel adjacent said open end and inwardly longitudinally for a distance equal to or less than the length of said insert having relatively short, inwardly directed projecting portions adapted to extend over the longitudinal edges of said insert and prevent its moving out of said channel in a direction transversely of said handle, and resilient friction means associated with said handle and said insert to normally hold said insert in position for use adjacent the open end of said channel under said projecting portions.

2,668,974
DISPOSABLE SWAB FOR TOILET BOWLS
Clemens O. Jaeger, Milwaukee, Wis.
Application July 13, 1951, Serial No. 236,593
4 Claims. (Cl. 15—210)



3. A disposable swab comprising: a swab of material readily disintegratable in water; and a long thin-walled tube of supple water resistant material closed at one end and open at the other, fixed to the swab with the closed end portion of the tube projecting into the swab from the upper end thereof and extending down into the swab a distance such that its closed extremity is well within the body of the swab, and the open end portion of the tube projecting from the upper end of the swab to be freely slipped onto an elongated handle with the handle reaching down into the swab but protected by the tube from being wetted during use, the open end portion of the tube which projects from the swab being much longer than the portion thereof within the swab so as to extend a substantial distance up the handle and thereby enable the tube to be grasped along with the handle at a distance far enough removed from the swab to preclude contact with the water during use of the swab and also enable detaching the swab and tube from the handle for disposal of the tube along with the swab without need for contacting any wet portion of the tube or swab.

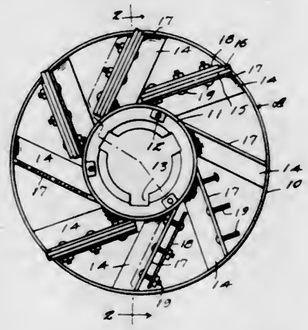
2,668,975
WINDOW CLEANING MECHANISM
Waclaw Narajowski, New York, N. Y.
Application October 10, 1950, Serial No. 189,361
7 Claims. (Cl. 15—220)



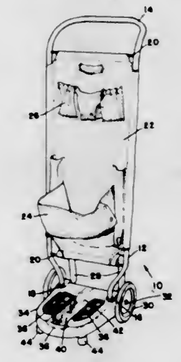
1. In a cleaning device for operating on both surfaces of a window pane simultaneously comprising a pair of carrier members adapted to be disposed on opposite surfaces of the pane, and magnetic means for maintaining said carriers in corresponding positions on opposite surfaces of the pane so that one carrier as a follower on one surface of the pane may duplicate the movement of the other carrier as a leader on the other surface of the pane, the improvement comprising a plurality of wheel assemblies for at least one of said carriers, each of said wheel assemblies including a rotary member having an axis of rotation normal to the plane of the window pane, a wheel journalled in said rotary member, first bearing means between said rotary member and said carrier for accepting thrust in a direction normal to the pane, and second bearing means between the rotary member and the carrier for accepting thrust in all directions parallel to the pane, said wheel being disposed eccentrically of the axis of rotation of said member, the axis of rotation of the wheel being contained in a plane substantially parallel to that of the window pane, said second bearing means being contained in a plane also parallel to the window pane and closely adjacent the plane containing the axis of rotation of said wheel.

2,668,976
FILLER DISK FOR BUFFING MACHINES
Perry A. Beach, Rochester, Minn.
Application May 31, 1950, Serial No. 165,188
3 Claims. (Cl. 15—230)

1. A structure of the kind described, comprising: an inner annular ring forming a hub for a coupling element of a rotary buffing machine, an outer annular rim concentric to and spaced from the ring, angle iron shaped spokes rigidly connected to said ring and rim therebetween with the spokes disposed substantially tangentially to said ring, clamping means, and pliable side-by-side wiping and stiffener elements detachably secured to one of the sides of each of said angle spokes by the clamping means, each of said wiping and stiffener elements and sides being in parallel planes and substantially perpendicular to the plane of said rim, said wiping element being larger than said stiffener element whereby the lowermost edge of the wiping element is disposed beyond the lowermost edge of said stiffener element but being arranged so that the lowermost edges of both elements will flex during operation to provide a positive wiping action, the sides of the angle iron shaped spokes and the wiping and stiffener elements carried thereby lying in vertical planes, each series of stiffener and wiping elements being tangential to said inner hub, whereby each wiping lower surface thereof is adapted to engage the floor to be surfaced to distribute material in the cracks and pits in the floor as said wiping element rotatably engages said floor.



2,668,977
WHEELED VACUUM CLEANER CART
Clarence D. Reece, Duluth, Minn., assignor, by mesne assignments, to H. F. Woodward, Minneapolis, Minn.
Application July 16, 1949, Serial No. 105,220
6 Claims. (Cl. 15—257)



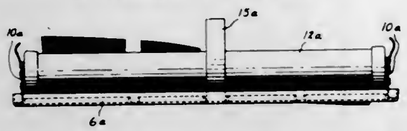
1. A vacuum cleaner cart comprising a base member with the rim of the top surface in a plane above the remainder of the top surface, a handle secured to and adjacent the rear portion of the base, pads secured to the base inside the rim, a channel in the base extending between the pads, and a raised member in the channel and spaced apart from the ends of the channel.

2,668,978
RETRACTABLE SOOT BLOWER OF THE LONG-TRAVEL TROLLEY SUPPORTED TYPE
Le Roy S. De Mart, Lancaster, Ohio, assignor to Diamond Power Specialty Corporation, a corporation of Ohio
Application February 7, 1951, Serial No. 209,769
2 Claims. (Cl. 15—317)



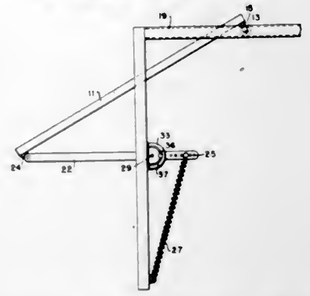
1. In a long retracting blower assembly, in combination with a lance tube longitudinally movable to projected and retracted positions, two supporting portions, one of which supports the lance tube near one end and the other of which supports the lance tube near the other end when said tube is in the retracted position, means for driving the lance tube longitudinally, a traveling intermediate support movable with respect to the lance tube and also with respect to said supporting portions, and which throughout at least a portion of the travel of the lance tube moves from a supporting position at an intermediate point of the length of the lance tube when said tube is retracted to a position near one end of said lance tube when such tube is projected, said two supporting portions comprising a front support and a rear support, the rear support being connected to and moving with the rear end of the lance tube during projection and retraction thereof, track means movably supporting said rear support and also said traveling intermediate support, releasable latch means for separably connecting said rear support and said intermediate support, and means responsive to movement of the intermediate support to and from said intermediate supporting position for releasing and engaging said latch means.

2,668,979
VACUUM CLEANER NOZZLE WITH DETACHABLE BRUSH CARRYING UNIT
Charles H. MacFarland, Cleveland, Ohio, assignor to The Scott & Fetzer Company, Cleveland, Ohio, a corporation of Ohio
Application October 29, 1949, Serial No. 124,291
4 Claims. (Cl. 15—368)



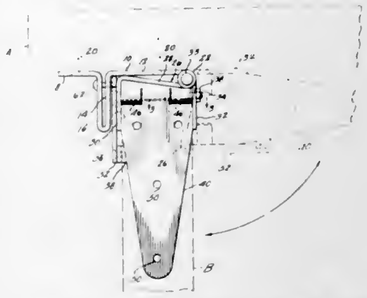
4. A combined suction nozzle and brush for vacuum cleaners comprising a suction nozzle body having upstanding front, rear and end walls providing an elongated open bottom brush chamber, an elongated rigid carpet engaging shoe shaped to conform to the open bottom of said elongated chamber, said shoe having a narrow continuous marginal portion closely underlying the bottom edges of said walls that is provided with an upstanding continuous marginal flange slidingly engaging the exterior faces of said walls, said shoe having upright resilient arms attached at their lower ends to the shoe adjacent its ends and flexible longitudinally of the shoe, said arms having longitudinally bowed upper end portions pressing against the inner faces of said end walls to detachably secure the shoe to said body, a rotatable brush detachably connected at its outer ends to said resilient arms below the upper wall engaging portions thereof, and means to adjust the vertical position of the brush with respect to the shoe.

2,668,980
GARAGE DOOR OPENING MEANS
Claude B. Eaton and Averil B. Jackson, Albuquerque, N. Mex.
Application October 2, 1950, Serial No. 188,052
2 Claims. (Cl. 16—1)



1. Mechanism for controlling the movement of a vertically swinging garage door provided with a frame and having a horizontally guided upper edge, said mechanism including a segmental bracket adapted to be fixed to a side of a frame below the frame top, a lever pivoted intermediate its ends centrally of the bracket so as to form two arms, said bracket having a slot concentric to the pivot of the lever and extending substantially 180°, a roller mounted on the lever and traveling in said slot, means for securing one arm of the lever to a side of the door adjacent its lower edge, and a coiled tension spring having one end adapted to be secured to a side of the door frame below the bracket, said spring having its remaining end attached to the other arm of said lever.

2,668,981
DUAL HINGE
Harley E. Dawdy, East Alton, Ill.
Application March 18, 1952, Serial No. 277,134
2 Claims. (Cl. 16—146)



1. A dual hinge comprising: a first leaf including a base leg adapted for connection to a support and a lock support leg related perpendicularly to and projecting from one end of the base leg; an inverted U-shaped second leaf having a pair of parallel arms and a bight extending therebetween positioned longitudinally of the base leg of said first leaf and having the portion of said bight adjacent one of said arms pivotally connected to the other end of the base leg of said first leaf for movement about an axis transverse of the latter named leg; and third and fourth leaves arranged in face to face relation and having one of their ends pivotally connected to said arms for pivotal movement about an axis normal to said first named axis toward and away from each other.

2,668,982
DOOR SUSPENSION, ESPECIALLY FOR TRUCKS AND TRAILERS
Edmund T. Ridgway, Oaklyn, N. J., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 19, 1947, Serial No. 786,892
7 Claims. (Cl. 16—162)

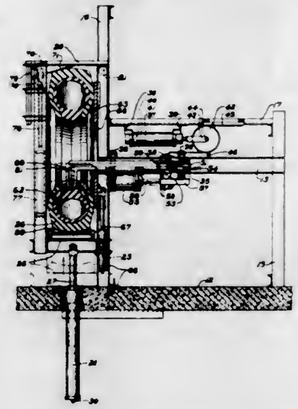


1. In a vehicle body having a body wall surrounding a door opening and a door in said opening, a hinge connecting said door along one of its sides to said wall swingably about an upright axis, extending continuously over the major portion of the height of said door, and having a pintle and hinge leaves substantially coextensive with the pintle's length, said leaves having end portions, near the top and the bottom, respectively, of said door and door opening, of greater thickness than the thickness of the hinge portion interconnecting said end portions.

2,668,983
METHOD AND APPARATUS FOR REMOVING CURING BAGS FROM TIRES
Walter J. Strong, Cuyahoga Falls, and Robert E. Lindemann, Leroy, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application April 2, 1951, Serial No. 218,874
12 Claims. (Cl. 18—2)

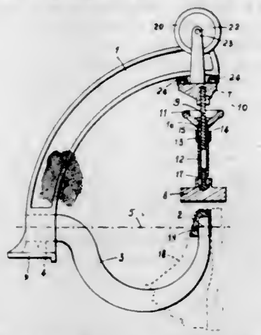
1. The method of removing a curing bag from an annular tire casing which comprises supporting a side face of the casing entirely about its central wheel-engaging opening, gripping a portion of the bag exposed at said opening, withdrawing the gripped portion by movement along a straight line in a direction axially of the casing toward its supported side face, and moving the casing in a direction diametrical of the casing while continuing to grip said portion to remove the remainder of the bag from the casing.

5. Apparatus for removing a curing bag from an annular tire casing, said apparatus comprising an apertured plate for supporting a side face of the casing entirely about its central wheel-engaging opening, clamping means for gripping a portion of the bag exposed at said opening, said clamping means being mounted for bodily movement along a straight path in a direction axial of said casing through said opening, means for moving the casing in a direction diametrical of the casing to expose the gripped portion of the bag within the central opening of the casing, means for moving the clamping means with the



gripped portion of the bag along said path beyond the supported side face of the casing, and means for moving said apertured plate and said casing in the opposite direction diametrical of the tire casing while holding the gripped portion of the bag beyond said plate to withdraw the remainder of the bag from the casing.

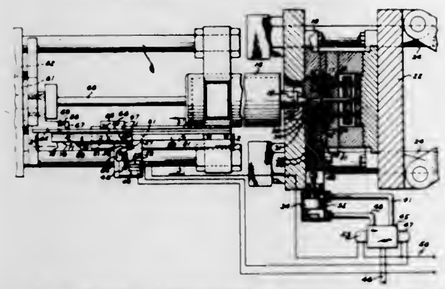
2,668,984
VULCANIZING OUTFIT FOR REPAIRING RUBBER ARTICLES
René Clement Joseph Gaschi, Alencon, France
Application October 31, 1951, Serial No. 254,029
Claims priority, application France
December 21, 1950
2 Claims. (Cl. 18—18)



1. An adjustable vulcanizing apparatus for repairing rubber articles such as boots and the like, comprising an elongated curved support having a quarter circle configuration and opposed curved sides thereof forming trackways, a resilient roller movably mounted on one of said trackways, rollers movably mounted on the opposite of said trackways, means connecting said rollers on both trackways and maintaining said resilient roller in frictional engagement with its respective trackway, heating means, clamping means connected to said roller connecting means and said heating means for pressing the same against the article being repaired, an arm pivotally connected to said support for being turned

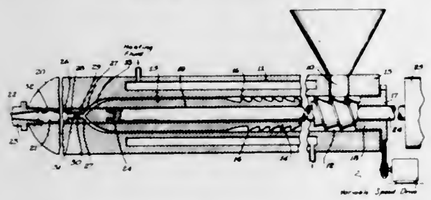
around an axis extending on a radius of said support with an end of said arm being positioned substantially at the center of the quarter circle formed by said support.

2,668,985
MOLDING APPARATUS
Bethel J. Babbitt, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 4, 1951, Serial No. 204,340
6 Claims. (Cl. 18—30)



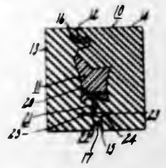
1. A molding apparatus, which comprises a mold having a molding cavity therein and a passage through which molding material may be introduced into the molding cavity, a ram for forcing molding material through the passage into the molding cavity, a suction line connected to one of the mold cavities and the passage in the mold, a valve positioned in the suction line at the juncture of the suction line and the mold, one-way actuating means mounted on the ram, and means responsive to the one-way actuating means for closing the valve as molding material is forced to a point in the mold near the valve.

2,668,986
PLASTIC MOLDING MACHINE
Richard W. Miller, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application August 22, 1952, Serial No. 305,757
3 Claims. (Cl. 18—30)



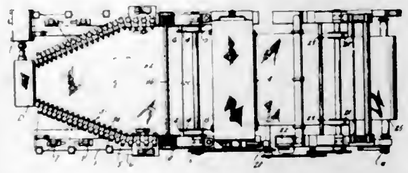
1. In a plasticating machine having a feed opening into a working barrel near one end, said barrel being constricted near the other end of the machine, means for heating said barrel; a forwarding screw for conveying plastics from the feed opening along the heated barrel; a rotary torpedo as an extension on said screw within said barrel; and external means for driving said screw and torpedo, the improvement which consists in: a longitudinal bore through the screw and torpedo, a ram in said bore, coaxial with the screw and torpedo and adapted to slide longitudinally therein, said ram extending from outside the barrel at the feed end entirely through the screw section and beyond the nose of the torpedo into a receiving chamber; forwardly directed radial flow channels in the ram, beyond but following the contour of the nose of the torpedo, converging at the axis of the ram and extending along said axis through the forward end of the ram; a cylindrical receiving chamber in the head of the machine, coaxial with the bore through the screw and torpedo, extending from the constricted end of the barrel to a plastics discharge port; and means for advancing the ram into said receiving chamber far enough to cut off communication between the barrel and chamber and to expel plastic from the chamber and for retracting the ram far enough to restore communication between the barrel and said chamber.

2,668,987
MOLD FOR AND METHOD OF MOLDING FOAM RUBBER STRIPS AND THE LIKE
Edward P. Harris and Frederick W. Sampson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 21, 1950, Serial No. 191,444
11 Claims. (Cl. 18—36)



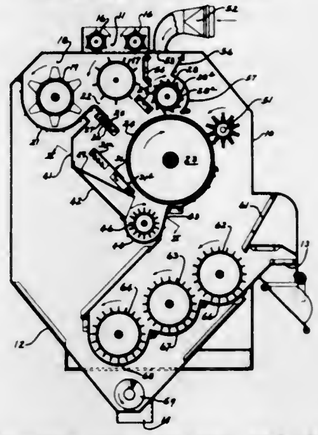
7. An endless mold of flexible rubber-like material for molding a continuous elongated strip from flowable foamy material comprising; a continuous flexible unitary normally closed mold of indeterminate length having a unitary continuous internal cavity of predetermined shape therein, a continuous longitudinal split being located so as to expose a portion of the internal cavity when the flexible mold is laterally flexed, mutually interlocking yieldable portions on the opposed edges of the split adapted to normally retain the edges of the split in substantially closed relation, mutually engaging surface portions within the cavity adapted to retain reinforcing elements for said strip, and means within said mold whereby the mold can be laterally flexed over a portion of its length so as to expose a portion of the internal cavity.

2,668,988
METHOD FOR INCREASING THE TEAR RESISTANCE OF PLASTIC FILM
James Bailey and Jules Pinsky, West Hartford, and Clarence G. Reber, Newington, Conn., assignors to Plax Corporation, West Hartford, Conn., a corporation of Delaware
Application June 3, 1950, Serial No. 166,014
5 Claims. (Cl. 18—47.5)



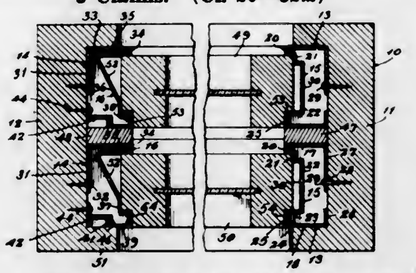
3. The process of manufacturing film from polyethylene which comprises continuously shaping said material by extrusion at a first location and at a first temperature above 205° F. to thereby continuously form the film, continuously conveying the shaped film to a second location removed from said first location, and substantially uniformly stretching said film approximately 50% at said second location and at a temperature of approximately 205° F.

2,668,989
COTTON HULL EXTRACTOR AND CLEANER
Arvel L. Vandergriff, Columbus, Ga., assignor to Lummus Cotton Gin Company, a corporation of Georgia
Application July 8, 1948, Serial No. 37,564
10 Claims. (Cl. 19—36)



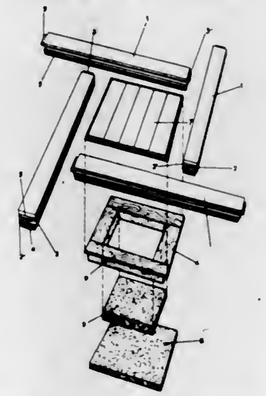
8. In a cotton hull extractor and cleaner, a separating unit including a saw cylinder having hull ejecting and cotton removing means associated therewith, an inclined hull board mounted alongside the upgoing side of the saw cylinder with its lower edge in closely spaced relation to the saw cylinder to preclude the passage of hulls therebetween, a partition in the cleaner extending parallel to the hull board in spaced relation thereto to provide therewith a passage for hulls to be thrown out over the top of the hull board by the saw cylinder, a reclaiming unit mounted under the saw cylinder to cooperate therewith, means to deliver hulls thrown out over the hull board to the reclaiming unit, and means to discharge hulls from the reclaiming unit.

2,668,990
COMBINED SASH GUIDE AND WEATHER STRIPPING FOR REMOVABLE WINDOWS
Davis F. Holmes and Minnie Roberta Stork, Atlanta, Ga.
Application January 22, 1952, Serial No. 267,534
3 Claims. (Cl. 20—52.2)



1. A removable window sash comprising a frame having opposed vertical channels, a sash guide channel secured in one of said vertical channels, said channel being formed from an elongated strip of metal bent to form a pair of vertical extended beads, a seat between said beads; a sash guide channel in the other of said vertical channels, said sash guide channel being formed from an elongated strip of metal bent to form a pair of vertically extended beads forming a channel complemental to the channel formed by the beads of the first mentioned sash guide channel and having a seat between said beads, said seat consisting of a wall having the major portion thereof inclined at an acute angle in the direction of the vertical channel and having one free end to provide lateral movement of said seat and a sash member interposed between seats of said sash guide channels.

2,668,991
FLOOR UNIT
Fernand Léon Taphoureau, Cannes, France
Application March 1, 1949, Serial No. 78,972
Claims priority, application France May 11, 1948
1 Claim. (Cl. 20—75)

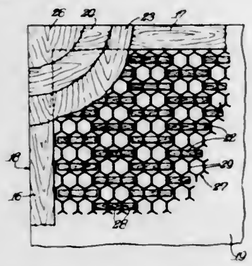


A flooring unit comprising a panel having four equal sides, the edges of said sides being provided with interfitting runners the length of the runners being equal to twice the length of each of said sides of said panel plus their own width, said runners being provided with longitudinal grooves along the sides of said runners and comprising a tongue at their longitudinal ends for mutual engagement of said runners, said panel further comprising a frame and an upper facing attached to said frame and formed of a number of flooring strips parallel to one side of said frame, said upper facing and said frame having along all the sides thereof an outwardly projecting common tongue, said common tongue engaging said longitudinal grooves formed in said sides of said runners, whereby said upper facing and said frame are maintained pressed towards each other and said upper facing, and said frame and said runners being maintained in mutual engagement.

2,668,992
STRUCTURAL UNIT
Milton E. C. Klose, Manitowoc, Wis.; Helen Klose administratrix of said Milton E. C. Klose, deceased
Application February 26, 1949, Serial No. 78,528
7 Claims. (Cl. 20—91)

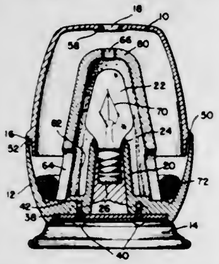
1. A structural unit of the class described comprising a frame, panel members secured to op-

posite sides of said frame, a plurality of filler elements disposed in predetermined spaced arrangement within the space enclosed by said frame and panel members, and a section of non-rigid netting within said space interengaged with



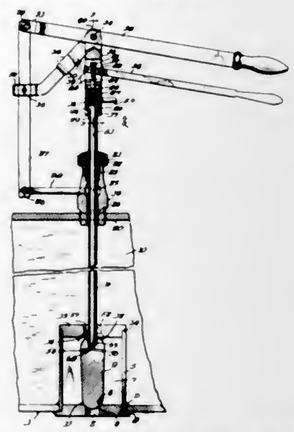
said filler elements for positioning the latter in said spaced arrangement during assembly of the unit, each of said filler elements having no rigid connection with the other elements or with said frame and being rigidly secured only to said panel members.

2,668,993
ELECTRICALLY HEATED VAPORIZER
Julian H. Bair, Seattle, Wash.
Application August 7, 1950, Serial No. 178,060
2 Claims. (Cl. 21—120)



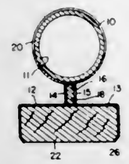
1. An electrically heated vaporizer for disinfectants, comprising: a circular metal base; a circular, cup shaped liquid reservoir positioned concentrically on said base, having an upstanding annular central portion forming a socket with its upper edge substantially at the same level as the top edge of said reservoir; a threaded metal base positioned in said socket; an electric bulb positioned in said threaded metal base and upstanding therefrom with its heating element positioned above said reservoir; a resilient washer disposed between and sealing said bulb and said socket; lead wires connected to said threaded metal base; said reservoir having a recessed portion in its lower surface forming a horizontal passageway between said reservoir and said circular base through which said lead wires run, said reservoir having rib means in said recessed portion to clamp said lead wires against said circular base and secure them from movement; a hollow evaporator formed of porous material positioned on said reservoir over said bulb and spaced therefrom, having lower air ingress openings extending upwardly from the lower edge of said evaporator and having an upper air egress opening centered in its upper surface, the sides of said hollow evaporator being formed in the shape of a truncated cone whereby said sides are substantially equally spaced from the heating element of said bulb; a fabric wick positioned in the bottom of said reservoir around said evaporator; a hollow cover positioned on said reservoir, said hollow cover having a central egress opening in its upper surface coaxial with the egress opening of said evaporator and having an inwardly projecting annular lip around said central egress opening; said reservoir and said cover having lug means whereby the lower edge of said cover is positioned inside of the upper edge of said reservoir and spaced therefrom providing an air opening therebetween; and an annular metal ring positioned on the outer surface of said cover above the upper edge of said reservoir and spaced therefrom and limiting the flow of air through said air opening between said cover and said reservoir.

2,668,994
FURNACE VALVE OR THE LIKE
George E. Hansen, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application May 22, 1951, Serial No. 227,667
1 Claim. (Cl. 22—79)



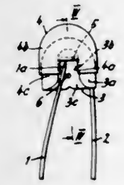
In a furnace valve or the like, the combination of a casing within a furnace, the said casing having axially aligned ports, a reciprocally movable ported closure member therefor movable between said casing ports, the said casing ports constituting respectively an inlet and outlet from the said casing, the inlet communicating with the interior of the furnace and the outlet communicating with a mold portion for receiving therefrom molten metal or the like, oppositely disposed valve seats in axial alignment cooperating with the ports within said casing, one of said seats adjoining said inlet at an upper portion of the casing and the other adjoining said outlet at a lower portion of said casing, the said closure member at end limits of its reciprocal movement alternatively contacting said oppositely disposed valve seats, a plurality of lever means for actuating the said closure member, reciprocally movable closure means within said first-named ported closure member, the said second-named closure means communicating with the ports within the said first-named closure member, the latter ports being in communication with the interior of the said casing, the said second-named closure means predeterminately interrupting the latter ports, an outer stem for actuating said first-named closure member, an inner stem for actuating said second closure means, the inner stem being substantially contained within the said outer stem, the said outer stem being positioned exteriorly of the furnace and being pivotally connected at an end portion thereof to the said inner stem, the said inner stem being axially movable independently relative to the said outer stem upon actuation of one of said plurality of lever means, the said inner stem at a lower limit of said outer stem being in communication with at least one of the ports of the said closure member, and inlet fluid supply means on an upper portion of said lever means communicating with the interior of the said outer stem, the fluid flow therefrom at the lower end of the outer stem into the ports of the first-named closure member being controlled by the predetermined axial movement of said inner stem and the second-named closure means relative to the ports of the first-named closure member.

2,668,995
CONNECTOR CLAMP
Walker C. Morrow, Dearborn, Mich.
Application March 7, 1949, Serial No. 80,007
6 Claims. (Cl. 24—81)



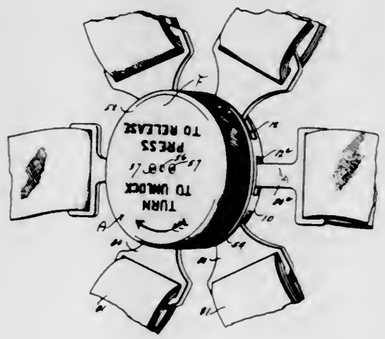
1. A unitary clamp having a doubled end shaped to embrace an elongated structural member, an interlooped intermediate portion defining a keyway enlargeable to effect reduction of size of the doubled end to grip a structural member, the other end of said clamp shaped to define a channel for receiving a nailing strip, and a key insertable in said keyway, said channel being formed by a pair of jaw members movable toward each other to grip a nailing strip as the key is inserted to enlarge the keyway, the channel being generally parallel to the structural member gripped by the doubled end.

2,668,996
SAFETY PIN
Jakob Kummli, Kuesnacht, near Zurich, Switzerland, assignor of three-fourths to Alexander Minder, Geneva, Switzerland, and Dick Jan van Aalst and Leopold Oberlander, both of Amsterdam, Netherlands
Application November 4, 1950, Serial No. 194,095
Claims priority, application Switzerland November 7, 1949
2 Claims. (Cl. 24—158)



1. A safety-pin comprising a spring wire bent into U-shape, a protective hood secured to one end of said wire, said hood having flattened side walls and having a slot in at least one of said side walls for permitting the free end of the wire to enter the hood, and a second hood for locking the free end of the wire, said second hood enveloping said first hood and being slidably mounted thereon for movement in the longitudinal direction of the legs of the U-shaped wire into an inner pin-securing position and into an outer pin-freezing position, said second hood having one of its sides partially sheared out and inwardly bent to define a tongue portion passing through the slot in the first hood, said tongue portion extending substantially across the open area internally of said first hood to prevent the movement of said free wire into and from said slot, and said tongue portion in the pin-securing position of the second hood thereby providing a rigid positive abutment to intercept positively the free wire end when flexed under load, but said tongue portion in the pin-releasing position of the hood permitting the wire end to pass to the slot and preventing further outward sliding movement of the second hood.

2,668,997
PARACHUTE EQUIPMENT
Leslie L. Irvin, Letchworth, and George H. Gould, London, England, assignors to Irving Air Chute Company, Inc., Buffalo, N. Y., a corporation
Application November 19, 1945, Serial No. 629,530
In Great Britain November 16, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires November 16, 1964
5 Claims. (Cl. 24—205.17)



1. In a single point release coupling for parachute harnesses and the like the combination of a cylindrical-shaped shallow body having an arrangement of lateral slots therein, a plurality of detents reciprocably mounted in said body for movement across and away from the slots, spring means normally urging said detents across said slots into locking position, a rotatable and axially reciprocatory hub mounted upon said body, locking means for holding the hub against reciprocation until it is turned thru a predetermined arc, means connected with the hub for moving said detents against their spring action out of locking position with respect to said slots when the hub is linearly moved to an extended position upon the body, and a cup-like control member connected with said hub for movement therewith and relatively immovable with respect thereto including a skirt portion overlapping in close operating relation with the facing surface of the periphery of said body in any position of the hub upon said body, said skirt being of such length as not to cover said slots when the hub is depressed upon the body with the detents in locking position.

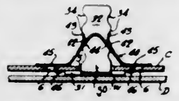
2,668,998

SEPARABLE FASTENER

George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio

Original application September 15, 1948, Serial No. 49,412, now Patent No. 2,616,142, dated November 4, 1952. Divided and this application October 14, 1952, Serial No. 318,654

1 Claim. (Cl. 24—217)



A clip comprising a piece of sheet metal having an intermediate bend providing spaced body portions for receiving a stud therebetween and base flanges adjoining said spaced body portions extending outwardly in opposite directions, resilient spring arms stamped from said spaced body portions, said spring arms being continuous with said spaced body portions from adjacent said base flanges and having free ends adjacent said intermediate bend, and inwardly extending hooks stamped from the material of said base flanges entirely within the periphery of said base flanges, said hooks projecting from the undersides of said base flanges and extending inwardly toward each other, said clip being adapted to be attached to a part over an opening therein with said base flanges bearing on one side of said part and with said hooks extending through holes adjacent said opening and engaging the opposite side of said part in cooperation with said base flanges to retain the clip in attached position on said part, said spaced body portions being adapted to be expanded and thereby tensioned in such attached position of the clip, whereby said free ends of said spring arms are biased toward each other for added gripping force on a stud applied between said spring arms, and said hooks are secured in said holes under force of said tensioned body portions urging said hooks inwardly toward each other in gripping engagement with marginal portions of said holes, and said base flanges are seated in firm bearing engagement with said part under force of said tensioned body portions to support the clip fixedly and rigidly in attached position on said part.

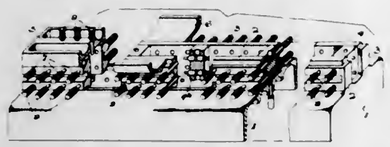
2,668,999

MEANS FOR MAKING TOY STRUCTURAL UNITS

Joseph Baechler, Vaud, Switzerland

Original application December 15, 1949, Serial No. 133,023. Divided and this application May 18, 1951, Serial No. 227,029

7 Claims. (Cl. 25—121)



1. An educational and amusement apparatus for molding individual toy construction elements of selected geometrical shapes adapted to be readily assembled and disassembled to build and rebuild reduced scale models of various building designs according to the desire of the builder, comprising, in combination, a foundation plate a portion of which defines a mold bottom and having upstanding parallel shoulders at each side of the mold bottom, said bottom provided with openings, a pair of longitudinally disposed side walls having upper and lower shoulders, said lower shoulders engaging the said shoulders of the foundation plate, said side walls having at least one row of openings, end walls spacing said side walls and resting on the ends of the mold bottom, said end walls having at least one row of openings, a cover plate recessed on its under face fitting over the upper shoulders of the side walls and over said end walls, said cover plate provided with openings, primary mandrels frictionally slidable in the openings of the mold bottom, side walls, and cover, and having their outer ends provided with handle portions and their inner ends provided with mold heads, said mandrels being selectively projectible in said openings to extend into the mold space formed by the mold bottom, side walls, and cover, and withdrawable to have their inner ends flush with the related mold surface, partition elements selectively spaced relative to each other and the end walls and between said side walls, said partition elements having openings, and secondary socket forming mandrels insertable and removable from said last mentioned openings.

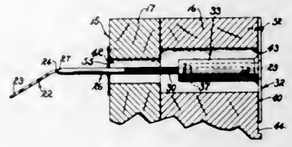
2,669,000

FORM AND HOLDING MEANS THEREFOR

William A. Seemann, Piedra, Calif.

Application March 8, 1952, Serial No. 275,587

7 Claims. (Cl. 25—131)



1. In combination with a concrete form or the like having a bore, a counterbore aligned with the bore, and a recessed area circumjacent to the counterbore; a hollow substantially cylindrical sleeve loosely mounted in the counterbore having an outwardly disposed open end and an inwardly disposed end provided with an inwardly directed annular shoulder defining a bore concentric to the sleeve; a mounting plate radially extended from the outer end of the sleeve slidably engaged with the recessed area of the form; an elongated bolt extended through the bore of the sleeve having an end disposed within the sleeve and an opposite end loosely extended through the bore of the form; means engaged with the extended end of the bolt rigidly mounting the bolt in predetermined position; and means adjustably positioned longitudinally of the bolt in engagement with the shoulder of the sleeve to draw the sleeve, plate and form toward the rigid mounting means for the bolt.

2,669,001

METHOD AND APPARATUS FOR TREATING YARNS

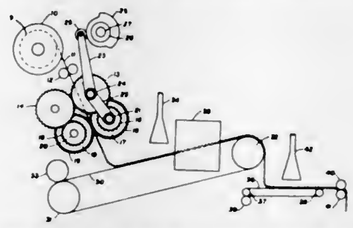
William Rollin Keen, Bowling Green, Pa., assignor to Collins & Sikman Corporation, Philadelphia, Pa., a corporation of Delaware

Application September 29, 1949, Serial No. 118,602

3 Claims. (Cl. 28—72)

1. In a process for deforming a twisted nylon ply yarn at intervals along its length, the steps which consist of leading the nylon yarn forwardly from a supply, passing the yarn through intermeshing driven gear-shaped members, heating

the gear-shaped members to a temperature in the range from 300° F. to 440° F., intermittently disengaging and then reengaging said gear-shaped members while continuing to lead said yarn forwardly, thereby leaving deformed portions in said



yarn separated by straight portions, applying heat to both the deformed and straight portions while said yarn is in motion and not under tension, thereby setting the deformed portions and the straight portions, and then cooling the yarn.

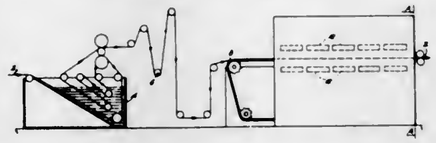
2,669,002

PROCESS FOR SETTING WOOL FABRICS

John N. Dalton, Providence, R. I., and William B. Kaupin, Lawrence, Mass., assignors to Pacific Mills, Lawrence, Mass., a corporation of Massachusetts

Application March 23, 1951, Serial No. 217,292

2 Claims. (Cl. 28—76)



1. A continuous process for imparting to wool fabrics a permanent set resistant to mill scouring, dyeing, finishing, steaming and sponging which comprises continuously advancing the fabric in open width, wetting the traveling fabric by impregnating it with an aqueous solution of pH 9 to 12, subjecting the wet traveling fabric from both sides for about 14 to 21 seconds to high intensity infra-red radiation to generate steam in the interior of the fabric, while maintaining said fabric under warpwise and weftwise tension, discontinuing application of infra-red radiation while the fabric contains more than 20% of its weight of the impregnating liquor, and thereafter scouring the fabric in a continuous washer.

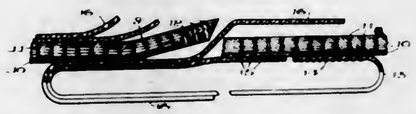
2,669,003

IRONING MACHINE PAD

Samuel A. Obitz, Pittsburgh, Pa., assignor to Pittsburgh Waterproof Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application October 24, 1952, Serial No. 316,647

3 Claims. (Cl. 28—78)



1. An ironer roll pad comprising roves disposed in side-by-side relation, a backing cloth stitched to the pad, and a lead cloth secured at one of its ends to one end of the pad, the other end of the lead cloth being free for connection to an ironer roll, the roves being so positioned that they will all encircle a roll to which the pad is applied, the stitching to the backing cloth at the other end of the pad being in the form of asbestos yarn and the remainder of the backing cloth being stitched to the roves by threads of relatively greater tensile strength, the said other end of the pad being beveled at the asbestos stitches.

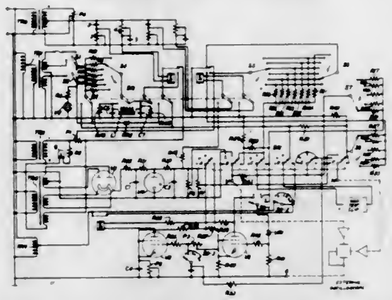
2,669,004

VARISTOR CURVE TRACER

Royer R. Blair, Berkeley Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 21, 1952, Serial No. 321,796

7 Claims. (Cl. 29—25.3)



1. Apparatus for alternately displaying on the screen of a cathode-ray oscilloscope the forward and reverse voltage-current characteristics of a two-pole asymmetrically conductive device comprising first and second conductive elements contacting said device, first and second series resistors connected to said second element and to one of the vertical plates of said oscilloscope, a third resistor connected from said first element to one of the horizontal plates of said oscilloscope, an adjustable resistor connected in series with said third resistor, sources of positive and negative voltage, and switching means for alternately and recurrently connecting the source of said positive voltage from said first element to said first series resistor, said adjustable resistor and the other plates of said oscilloscope, and the source of said negative voltage from said first element to said series resistor and the other plates of said oscilloscope, said series resistors and said adjustable resistor being selected to produce advantageous scale factors for both characteristics of said device.

2,669,005

SINGLE SPINDLE AUTOMATIC LATHE

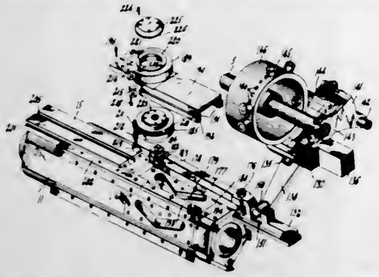
Carroll E. Miller, Windsor, Vt., assignor to Cone Automatic Machine Company Inc., Windsor, Vt., a corporation of Vermont

Application November 3, 1948, Serial No. 58,074

22 Claims. (Cl. 29—43)

1. A machine of the class described, comprising a rotary work-carrying spindle, an indexing tool-carrying turret provided with a plurality of tool supports at different angular positions arranged for successive presentation into an operative index position with relation to work carried by said spindle, means for indexing said turret, means for starting said indexing means, mechanism movable with said turret for stopping the indexing means when the corresponding index station has been reached and said indexing mechanism has completed its cycle of operations,

means for locking said turret in indexed position, and means actuated by said indexing means

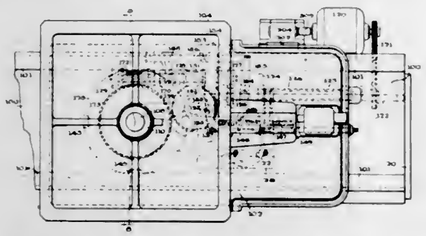


for actuating said locking means to unlock said turret in advance of each indexing.

2,669,006
INDEXING MECHANISM FOR TURRET LATHES

Harold B. Soule, Barrington, and Gordon W. Smithson, Pawtucket, R. I., assignors to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey

Application January 4, 1949, Serial No. 69,184
8 Claims. (Cl. 29—49)



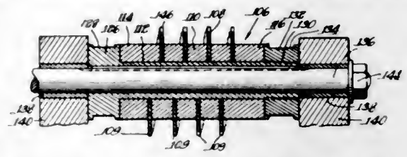
1. A turret indexing and locking mechanism for machine tools comprising, in combination, a reciprocable turret support, a drive means for reciprocating said support, a turret rotatably mounted on said support for movement to successive indexed positions, a gear fast on said turret, a controlled source of power for driving said gear at a selected and predetermined time, a lock bolt engageable with said turret, a driving connection between said source of power and said gear including a clutch, a clutch shifting device connected to said clutch and operable to engage and to disengage said clutch, a rotary camming mechanism driven from said last mentioned driving connection to operate said clutch shifting device to engage said clutch, biasing means acting upon said clutch shifting device to normally hold said clutch in disengaged position and said lock bolt in engaged position, and a control member on and rotatable with the turret and engaging said clutch shifting device to prevent disengagement of the clutch except at predetermined times.

2,669,007
SLOTTING SAW

William Stern, Park Ridge, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois

Original application July 23, 1948, Serial No. 40,310. Divided and this application January 19, 1951, Serial No. 206,889
8 Claims. (Cl. 29—103)

1. A saw comprising a saw arbor of uniform diameter, a helical saw blade arranged coaxially about said arbor, a helical blade holder substantially complementary to and interfitting with said



blade, and means for mounting said blade and holder on said arbor for rotation therewith.

2,669,008
METHOD OF MANUFACTURING TUNGSTEN ARTICLES OF PREDETERMINED SHAPE AND DIMENSIONS

Roberto Levi, New York, N. Y., assignor to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y.

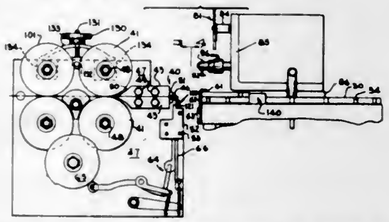
No Drawing. Application June 30, 1951, Serial No. 234,672
2 Claims. (Cl. 29—148)

1. A method of manufacturing a machined tungsten body of desired shape and dimensions with the use of a filler metal selected from the group consisting of copper, gold, silver and alloys between those metals in any proportions comprising the steps of pressing a mass of tungsten particles into a body, heating the pressed tungsten body at a sintering temperature higher than 1000° C. and substantially higher than the temperature at which said filler metal is subsequently evaporated to thereby form an unmachinable sintered porous body, impregnating the porous body with the molten filler metal, the tungsten portion of said body being substantially in its final sintered state, machining the impregnated body to remove portions therefrom and obtain the body of desired shape and dimensions, and evaporating said filler metal from said body in a substantially non-oxidizing atmosphere and at a temperature substantially less than said sintering temperature without appreciably changing the dimensions thereof.

2,669,009
OIL CUP ASSEMBLY MACHINE

Henry Otte, Detroit, Mich., assignor to Bowen Products Corporation, Ecorse, Mich., a corporation of Michigan

Application January 25, 1950, Serial No. 140,487
2 Claims. (Cl. 29—148.2)



1. In a process for assembling oil cups having a cap hinged to a cup and resiliently held in closed position thereon, the novel steps of forming a spring coil on the spring wire spaced from the free end thereof to provide an engaging tip on the free end, positioning the spring coil in axial alignment with the axis about which the cap is hinged, inserting a pin through said spring coil to secure said spring to said cap and cup, drawing on said unformed spring wire while said engaging tip is in engagement with said assembly

to tension said spring and severing said spring wire at a point spaced from said coil to provide an engaging tip engaging said cap to hold said coil spring under tension and to yieldably hold said cap in closed position on said cup.

2,669,010
METHOD OF MAKING CYLINDRICAL SURFACES

Walter F. Perkins, Baltimore, Md., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

Original application September 10, 1945, Serial No. 615,337, now Patent No. 2,511,873, dated June 20, 1950. Divided and this application May 2, 1947, Serial No. 745,587
5 Claims. (Cl. 29—148.2)

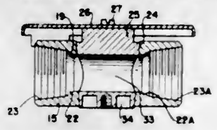


3. A method of constructing a cylindrical surface which comprises the steps of forming a plurality of channel shaped members having a normally flat, resilient, flexible web provided with integral flat sides normal to said web which in turn are provided with integral inturned flanges parallel to said web; flexing said web to the curvature of said cylindrical surface; holding each of said channel members having a flexed web in said flexed position with a temporary stay means; positioning each of said flexed channel members between a pair of like flexed channel members so that the web portions form a cylindrical surface and each integral flat side of each member faces and abuts an integral flat side of the adjacent member between which it has been positioned; and fastening the abutting sides to each other at points intermediate the width of said sides.

2,669,011
METHOD OF MAKING VALVES

Isaac Vernon Brumbaugh, Clayton, Mo.

Application September 24, 1948, Serial No. 50,899
2 Claims. (Cl. 29—157.1)

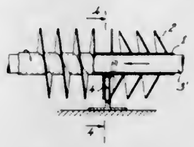


2. A method of making valves which comprises forming from an extruded bar of metal of a shape having in cross section a four straight sided figure of which at least the top and bottom faces are parallel plane surfaces, a block of metal of like shape and of an appropriate length to form a valve body and having a passageway extending longitudinally thereof parallel to said top and bottom faces; machining a tapered bore in an intermediate portion of said body intersecting said passageway, and with an axis substantially perpendicular to said passageway for the reception of a valve plug without altering the external shape of said block of metal so that the completed valve body has in cross section a four straight sided figure identical with the cross section of the extruded bar, said valve body having at least the top and bottom faces plane surfaces parallel to each other and the axis of said tapered bore perpendicular thereto; and inserting a valve plug in said tapered bore.

2,669,012
METHOD FOR MAKING FINNED TUBES

Ernest Bruegger, Massillon, Ohio, assignor to The Griscom-Russell Company, New York, N. Y., a corporation of Delaware

Application December 23, 1948, Serial No. 67,005
4 Claims. (Cl. 29—157.3)

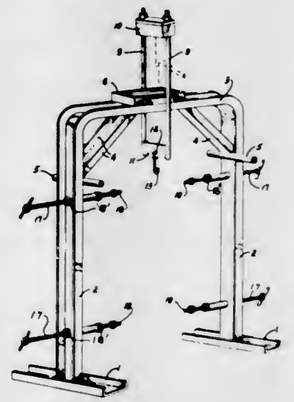


4. The method of making finned tubing which consists in advancing a ribbon of metal toward the tube with its surface at an angle to the axis of the tube, rotating the tube to coil the ribbon about the tube in the form of a helix with the plane of the ribbon uniformly inclined to the axis of the tube without securing the inner edge of the helix to the tube and bending the ribbon to a plane substantially normal to the axis of the tube to thereby press the inner edge of the helix against the wall of the tube to secure it to the tube and to form a good heat-conducting joint therewith.

2,669,013
PRECAST CONCRETE FOUNDATION HOLDING JIG

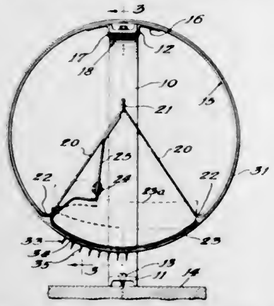
John Hart Wilson, Wichita Falls, Tex.

Application August 22, 1949, Serial No. 111,611
4 Claims. (Cl. 29—284)



4. In a tool for supporting a precast concrete foundation member, a pair of base members, an upright member secured to each of said base members, a transverse member connecting the upper ends of said upright members, a yoke straddling said transverse member and projecting thereabove for receiving a jack between the upper surface of said transverse member and the upper closed end of said yoke member, said yoke member having a portion thereof depending downwardly below said transverse member, which downwardly depending yoke portion has a hook on the lower end thereof for engaging and supporting said precast concrete foundation member, and pairs of pointed, horizontally aligned, screw actuated members on each of said upright members for securing said precast concrete foundation member in an adjusted position both horizontally and vertically.

2,669,014
RASP LOADING FIXTURE
Peter C. Neilsen, Lake Elmo, Minn.
Application June 15, 1950, Serial No. 168,303
2 Claims. (Cl. 29—284)



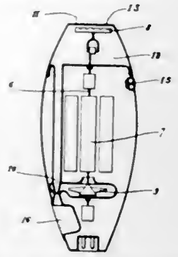
2. A rasp loading fixture comprising an upright support, a substantially annular narrow width split band having spaced apart end edges, a movable gate pivoted to said band and adapted to span the space between the end edges, the gate being arcuate to conform to the curvature of the split band and being movable to an open position to free the space between the end edges, and means removably mounting the split band on the support with the spaced apart edges disposed downwardly, the mounting means engaging the band only at the diametrically opposite side from the spaced apart edges.

2,669,015
METHOD OF PROGRESSIVELY WELDING RAILROAD CAR SIDE WALLS
Arthur C. Schanz, Glen Ridge, N. J., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application July 31, 1948, Serial No. 41,834
1 Claim. (Cl. 29—367)



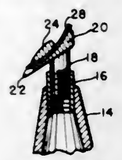
The method of progressively fabricating a railroad car side wall which consists of placing a plurality of metal plates in side by side relation on a table at a first station, clamping the plates on the table at the first station with their adjacent sides in abutting relation, welding the abutting side edges of the plates together to form a blanket, unclamping the blanket from the table at the first station, shifting anti-friction elements vertically into engagement with the undersurface of the blanket, elevating the anti-friction elements to raise the blanket out of frictional engagement with elements of the table at the first station, sliding the blanket on the anti-friction elements to a position above a table at a second station, lowering the anti-friction elements at the second station whereby to deposit the blanket on the table at the second station, clamping longitudinally extending reinforcing members, respectively, to each of the longitudinal edges of the blanket, welding the longitudinal members to the blanket whereby to stiffen the blanket longitudinally, shifting anti-friction elements vertically into engagement with the undersurface of the blanket, elevating the anti-friction elements to raise the blanket out of frictional engagement with elements of the table at the second station, sliding the blanket on the anti-friction elements to a position above a table at a third station, lowering anti-friction elements below the level of the table at the third station whereby to deposit the blanket on the table at the third station, applying and clamping transversely extending reinforcing members to the blanket between the longitudinally extending members, and welding the transversely extending members to the blanket while so held thereon.

2,669,016
ELECTRIC SHAVER WASTE COLLECTING MEANS
Juliette Anna Mathilde Conte, Cannes, France
Application December 28, 1949, Serial No. 135,474
2 Claims. (Cl. 30—41.5)



1. An electric shaver comprising a fluidtight casing provided with an axial front opening and a laterally shifted rear opening, a guard fitted in said front opening, a single cutter to the rear of said guard, an inner casing to the rear of the cutter communicating with the atmosphere, an electric motor driving said cutter and lying inside said inner casing, a shaft arranged axially of the shaver and operably connecting the motor and the cutter, a fan driven by said shaft and lying inside the inner casing to the rear of the motor with reference to the cutter and producing a draft of air through the casing over the motor, a by-pass channel connecting the part of the fluidtight casing to the front of the inner casing with the rear opening and means wherethrough the fan communicates with the rear end of the channel to induce a second draft of air therethrough towards the rear opening.

2,669,017
RAZOR HEAD
Kaichi Seko, Seattle, Wash., assignor of one-fourth to Min Tsubota, Seattle, Wash.
Application November 18, 1950, Serial No. 196,388
2 Claims. (Cl. 30—62)



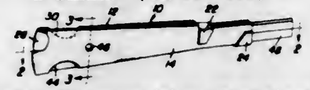
1. A razor head, comprising: a small elongated base member having teeth disposed on one side; an elongated clamp member positioned in spaced relationship above the upper surface of said base member, said clamp member being of narrower width than said base member and being positioned with its ends positioned above the ends of said base member and centrally disposed between the sides of said base member; said clamp member having down turned portions extending from its ends and lapping the ends of said base member and secured thereto; said upper surface of said base member being concavely curved transversely; the upper and lower surfaces of said clamp member being curved forming in transverse cross-section an outline which is convexo-convex; said clamp and base members having their greatest thickness on their sides away from said teeth; a round boss secured to the lower surface of said base member and centered on said base member longitudinally and positioned closer to the side away from said teeth than to the teeth side of said base member and extending at an acute angle to the line from its point of joinder with said base member to the teeth side of said base member and being threaded at its lower end; and an elongated razor blade made of thin flexible material having one of its side edges sharpened, said razor blade being removably positioned between said base and clamp members with said sharpened edge positioned above the upper surface of said teeth, and said razor blade having wing extensions at its ends to abut the side of said down turned portions away from said teeth, said base and clamp members being adapted to transversely distort said razor blade to conform to the shape of said upper surface of said base member.

2,669,018
KITCHEN OR CAMP IMPLEMENTS
Mahlon J. Smith, Niles, Mich., assignor to Michigan Wire Goods Company, Niles, Mich.
Application August 22, 1949, Serial No. 111,653
5 Claims. (Cl. 30—129)



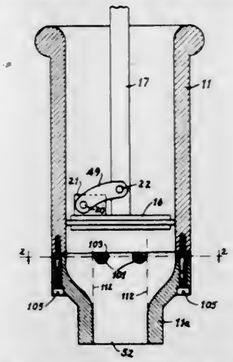
5. In combination, an elongated implement shank member comprising parallel reaches terminating in spaced tines at their outer ends, the tines being spaced a greater distance from each other than the parallel reaches inwardly of the tines, and an elongated extension member comprising parallel reaches terminating at their outer ends in a tine guard and a laterally offset eye intermediate the tine guard and parallel reaches thereof, said eye slidably embracing the parallel reaches of the shank member inwardly of the tines thereof, said tines being projectable outwardly beyond said tine guard into disengaged relation therewith, the eye of the extension member slidably embracing the parallel reaches of the shank member when the tines are projected outwardly beyond the tine guard and disengaged therefrom.

2,669,019
KNIFE HANDLE
Carlos Miller, Nogales, Ariz.
Application December 4, 1950, Serial No. 198,999
1 Claim. (Cl. 30—332)



A knife handle comprising separate and individual first and second elongated perfectly flat plates having upper and lower ends, means for removably retaining the plates together to frictionally hold a blade between and extending from their upper ends, said means including a pair of longitudinally spaced lugs on opposite longitudinal edges of said first plate and situated adjacent to the upper end of said first plate, said lugs being bent inwardly toward each other and providing assembling and retaining hooks releasably embracing the upper end of said second plate, a longitudinal extension at the lower end of said first plate and adjacent to one longitudinal side, said extension being bent and hooked over the lower end of said second plate and a longitudinal extension at the lower end of said second plate, adjacent to the opposite longitudinal edge, said extension being bent into hook-shape and releasably engaged over the lower end of said first plate said bent extensions serving to prevent relative longitudinal movement of said plates, a detent in said first plate intermediate the upper and lower ends yieldably seatable in a corresponding recess in said second plate, finger-receiving cut-out portions in said longitudinal edges of said plates adjacent said bent extensions, whereby pressure may be applied to move the detent out of the recess and to thus assist in the separation of the plates.

2,669,020
FEEDING TUBE FOR BUTTER SERVING MACHINES
Sherman A. Thomas, Rochester, N. Y.
Application February 27, 1951, Serial No. 213,006
4 Claims. (Cl. 31—12)



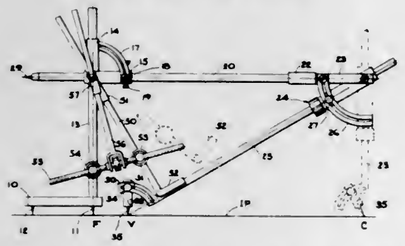
1. Butter anchoring means for the outlet end of a butter feeding tube having a hopper portion and a delivery outlet at one end in a butter serving machine of the type including a piston movable in said feeding tube and a piston rod for moving said piston through part of the length of said tube, said piston being mounted to swing relative to said piston rod about a pivotal axis transverse to the length of the piston rod, characterized further by the provision of a pair of butter anchoring rods extending transversely centrally across said feeding tube and in one direction only so that they are approximately parallel to each

porcelain or equivalent false teeth comprising in combination, an artificial denture having at least two spaced porcelain or equivalent breakable teeth, and a substantially indestructible metallic insert fitted between said spaced teeth,



said insert being an inverted V-shaped member whose flanges are embedded and anchored in the denture material and whose vertex is sharpened to function as a cutting and masticating edge.

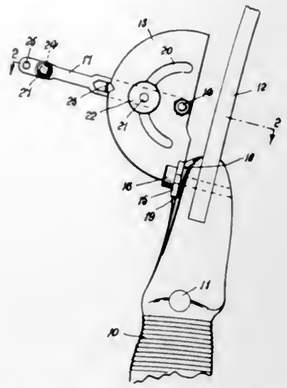
2,669,022
CONICGRAPH
Thomas S. Sajatovich, Cleveland, Ohio
Application June 25, 1949, Serial No. 101,319
4 Claims. (Cl. 33—27)



1. A conicgraph for scribing parabolas and hyperbolas comprising a base structure having a focus point, a main bearing member, a support for said main bearing member carried by said base, an axis rod, means slidably and pivotally supporting said axis rod in said main bearing member perpendicularly above said focus point, the perpendicular above said focus point and the axis of said rod intersecting to constitute a first intersection, a scriber arm, means pivotally mounted on one end of said axis rod and rotatably and slidably carrying said scriber arm, the axis of said scriber arm and the axis of said rod intersecting to constitute a second intersection, a scriber carried by said scriber arm and having a scribing point falling on the axis of said arm, means to locate the axis of said scriber arm tangent to a circle lying in the plane defined by said perpendicular and the axis of said rod, said circle being centered on said first intersection and having a radius equal to the distance from said focus point to said first intersection and adjustable means to fix the angles of intersection at said first and second intersections.

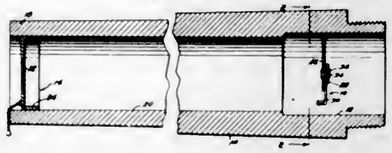
2,669,023
ARCHERY SIGHT
John F. Pizzuti, Hamtramck, Mich.
Application November 29, 1951, Serial No. 258,900
3 Claims. (Cl. 33—46)

1. For attachment to an archery bow having a rigid handle and a flexible limb extending upwardly from said handle, a sighting device comprising a flat plate, attachment means at the lower end of said plate for securing it to said handle, said means spacing said plate from the front face of said limb and holding the surface of said plate in a true plane in common with the plane through which the bow-string is drawn in



use, a vertically swingable sight arm pivoted on said plate, a sight point carried by the outer end of said arm, and locking means for securing said arm in positions of vertical adjustment.

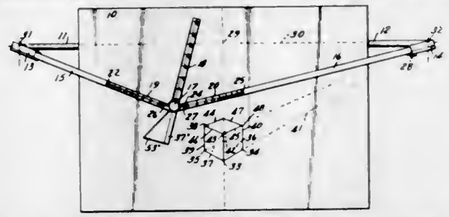
2,669,024
FOLDING BORE SIGHT
Robert Flanagan, Houston, Tex., assignor to the United States of America as represented by the Secretary of the Army
Application February 15, 1952, Serial No. 271,840
6 Claims. (Cl. 33—46)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A bore sight comprising an elongated center plate, a pair of similar arms, a grommet pivotally securing the arms to said plate, said plate and arms having bore-engaging elements all equidistant from said grommet, the bore sight being collapsible by pivoting the arms into substantial alignment with the center plate, and means on said elongated center plate to hold the arms in operative or extended position each arm forming an obtuse angle with said center plate.

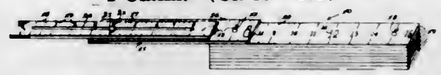
2,669,025
APPARATUS FOR PRODUCING PERSPECTIVE DRAWINGS
Erik G. Hysing, Stockholm, Sweden, assignor to Aktiebolaget Kontrollinstrument, Stockholm, Sweden, a corporation of Sweden
Application March 22, 1949, Serial No. 82,752
7 Claims. (Cl. 33—77)

1. Apparatus for producing perspective drawings comprising a drawing board, axially aligned bars slidably mounted on the underside of said board and extending from opposite sides thereof, a roller pivotally mounted on the extending end of each bar, an extensible and retractible tape received on each roller, said tapes being pivotally connected at their point of intersection, nonlinear scales calibrated in accordance with the perspective to be drawn detachably secured to said tapes adjacent their point of intersection, a linear scale pivotally secured to said tapes at their point of intersection and extending to one side thereof, a triangular template integral with said



linear scale and extending from the opposite sides of the tapes, means for locking said rollers against rotation, and means for locking said tapes and said linear scale against relative pivotal movement whereby a perspective drawing may be accurately constructed to scale.

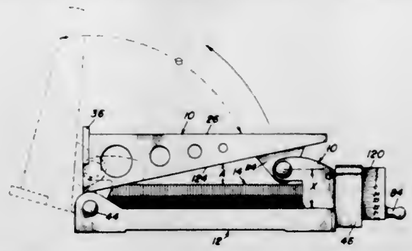
2,669,026
JOINTED MEASURING INSTRUMENT
Harold J. Doerr, Lovell, Wyo.
Application October 13, 1950, Serial No. 190,033
1 Claim. (Cl. 33—161)



A jointed measuring instrument comprising a plurality of rule sections pivotally connected in overlapped relationship and arranged for swinging movement in parallel planes for folding or extending the sections, each of said sections having a top surface inscribed with linear graduations and indicia designating the inch graduations, the indicia bearing portions of each rule section being of a length of eight inches and the indicia inscribed on each section constituting a progressive continuation of the indicia of the next preceding section, said rule sections having cardinal indicia at four inch intervals representing a dimensional unit of measure of the modular measurement system, said rule sections having a two inch overlap at their jointed ends when in extended positions constituting one-half of a dimensional unit of measure of four inches, said rule sections being 10 inches in length, a single eight inch rule section constituting the initial section of the rule or instrument, and an extension bar slidably connected to said eight inch rule section having linear graduations on its upper surface extending to within one inch of each end of the bar and being provided with a slot disposed co-extensively with its graduated area, said eight inch rule section having a fastening spaced one inch from its free end slidably engaging the slot of said bar having a head overlying the bar constituting an indexing pointer for the graduations of the bar.

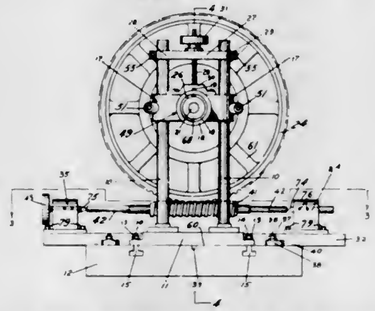
2,669,027
MICROMETER TANGENT BAR
Charles R. Wilson, Pekin, Ill.
Application July 12, 1950, Serial No. 173,262
5 Claims. (Cl. 33—174)

1. A tangent bar comprising a supporting base, a pivotable means pivotally mounted on said supporting base, an actuating screw rotatably mounted on said supporting base and being secured against longitudinal movement thereon, means reciprocally engageable with said actuating screw and said pivotable means and being actuated by said actuating screw to effect pivoting of said pivotable means, said pivotable means including a plate having an upper and a lower face angularly disposed relative to said upper face, a longitudinally extending dovetailed slot in the lower face of said plate, said reciprocally engageable means comprising a micrometer nut reciprocably moved by said actuating screw, and a slide element pivotally connected to said nut and slidably engaged in the slot of said plate whereby longitudinal



movement of said nut will effect sliding engagement between said slide element and said plate, whereby said plate will be pivoted, said supporting base including a longitudinally extending dovetailed slot, the lower end of said nut having a V-shaped slot therein, a dovetail slot engaging element disposed in said V-shaped slot, and means on said nut adjustably maintaining said slot engaging element within said base slot whereby the friction between the element and the base slot may be varied.

2,669,028
GEAR CHECKING DEVICE
Frank A. La Femina, New York, N. Y.
Application October 12, 1945, Serial No. 622,108
9 Claims. (Cl. 33—179.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a gear inspection device, a main base, parallel supporting means arising from the main base, gear-shaft supporting means detachably secured at right angles to the parallel supporting means and adjustably positionable along the height of the parallel supporting means, a fine adjustment bracket slidably mounted on the parallel supporting means above the gear-shaft supporting means, screw-threaded means between the bracket and the gear shaft supporting means to vary and measure the vertical displacement of the gear-shaft supporting means, a swivel base pivotally secured to the main base between the parallel supporting means, adjustable tail centers detachably secured to the swivel base, and means for measuring the angular displacement of the swivel base secured to the main base.

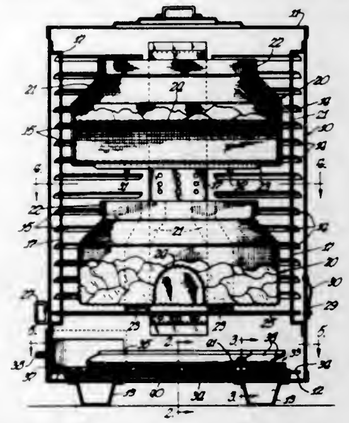
2,669,029
LEVEL
Lewis B. Ries, Monessen, Pa.
Application March 31, 1952, Serial No. 279,597
2 Claims. (Cl. 33—206)



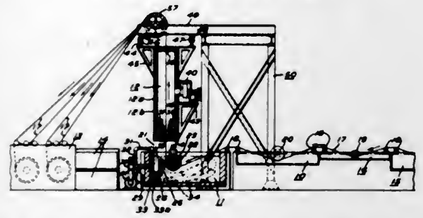
2. A level comprising a bar formed midway its length with a transverse circular opening abruptly reduced in diameter in spaced relation to opposite sides of the bar and thereby providing an annular shoulder about the opening having flat side faces constituting annular ledges spaced equal distances from opposite ends of the opening, said shoulder being formed for its full thickness with circumferentially spaced V-shaped recesses tapered toward the annular wall of the opening, a circular gauge consisting of a hollow transparent container fitting snugly in the reduced portion of said opening and provided with solid radially projecting lugs integral with and extending entirely across its marginal edge face and conforming to the taper of said recesses and fitting into the said recesses, said container having flat side faces flush with opposite side faces of said shoulder and provided with circumferentially spaced scale markings progressing from zero at opposite ends of a horizontal diameter of the container to 90° at opposite ends of a vertical diameter of the container, liquid in said container movable freely therein circumferentially of the gauge and having a flat upper surface cooperating with the scale markings to indicate angular disposition of the level, an elastic band fitting about said container circumferentially thereof and having positions straddling the lugs within the recesses and other portions in flat contacting engagement with portions of the marginal face of the container between the lugs and constituting a cushioning member, transparent discs in end portions of the opening having inner side faces in flat contacting engagement with the ledges and opposite sides of the container and its lugs and serving to prevent movement of the container out of its position within the reduced portion of the opening, and securing means for said transparent discs.

2,669,030
WASTE CONTAINER
John P. English, Northbrook, and Joseph Magarinos, Chicago, Ill.
Application October 11, 1952, Serial No. 314,359
8 Claims. (Cl. 34—69)

1. A holder for used rags, inflammable refuse material and the like, comprising a cylindrical sheet metal container provided with louvered openings in the side walls to permit the lateral passage of air into and from the container, a removable imperforate cover for the container, a drip pan at the lower end of the container for catching fluid dripping from refuse above the pan, supporting means above the pan for a receptacle adapted to receive refuse deposited in the container when the cover thereof is removed, and an open top receptacle for refuse seated upon said supporting means and provided with foraminous side and bottom walls permitting free fluid therein to drip into said pan and for admitting passage into and from the receptacle of air flowing through the container for aeration of the receptacle contents.



2,669,031
APPARATUS FOR DRYING A LIQUID COATING ON AN ELONGATED PRODUCT
Charles R. Chase, Morrisville, Pa., and George L. Bliss, Cleveland, Ohio, assignors to United States Steel Corporation, a corporation of New Jersey
Original application February 6, 1948, Serial No. 6,708. Divided and this application May 18, 1951, Serial No. 227,074
7 Claims. (Cl. 34—155)

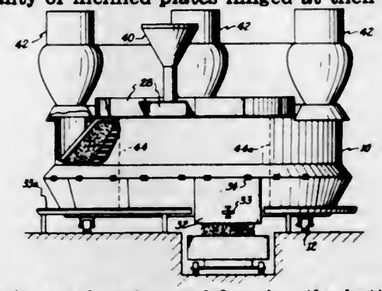


1. Apparatus for treating wire or the like comprising an elongated drying oven disposed vertically and having transverse entrance and exit slots in its bottom and top, respectively, and an opening in one side from top to bottom communicating with said slots and affording clearance between the wire and oven on sidewise movement of the latter, brackets extending from the sides adjacent that having said opening and overhead trolleys secured to said brackets supporting said oven for sidewise movement along the line of said slots.

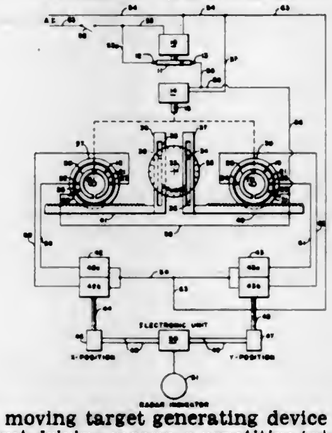
2,669,032
COOLING APPARATUS
Wilhelm Zimmermann, Frankfurt am Main, Germany, assignor to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany, a corporation of Germany
Application February 16, 1953, Serial No. 337,100
Claims priority, application Germany March 29, 1952
6 Claims. (Cl. 34—174)

1. An apparatus for cooling hot agglomerated material comprising an annular housing, means

mounting said housing for rotation about its vertical axis, a louvered inclined member forming the inner circumferential wall of said housing, inclined grate bars spaced from said louvered member to form a cooling chamber therebetween, a plurality of inclined plates hinged at their upper edges to said housing and forming the bottom of said chamber, means for feeding hot material into the top of said chamber, and means for holding said bottom plates closed during the cooling of said material and for releasing said plates to swing open on their hinged edges to dump cooled material.



2,669,033
MOVING TARGET GENERATING DEVICE
Forrest W. Brown, New Canaan, Conn., assignor to The Reflectone Corporation, Stamford, Conn., a corporation of Connecticut
Application November 19, 1952, Serial No. 321,487
6 Claims. (Cl. 35—10.4)



1. A moving target generating device comprising a first driving means, a repetitive intermittent switching means coupled to said driving means, a second driving means controlled by said intermittent switching means, said second driving means coupled to a first and to a second double circuit switching means, a first bidirectional driving means controlled by said first double circuit switching means and a second bidirectional driving means controlled by said second double circuit switching means and means to control the circuit switching of said first double circuit switching means with respect to said second double circuit switching means.

2,669,034
RECORDING METHOD
Peter A. Luppen, Bakersfield, Calif.
Application July 30, 1949, Serial No. 107,760
18 Claims. (Cl. 35—48)

7. A recording method for comparing individual records with group records consisting of a plurality of individual records which comprises graphing as a separate graph each of the individual records, each graph having identical indices along the ordinate and abscissa, photographing each graph to obtain a negative thereof, exposing each of the several negatives on a single print to obtain a composite print representing said group records, photographing said composite print to obtain a composite negative, printing one of the negatives of individual records to obtain a print thereof and printing said composite negative to a different intensity on the same print to obtain a comparison print of the group records and said one of said individual records, the said print having delineated thereon the indices appearing on the ordinate and abscissa of each of said graphs.



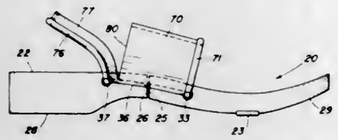
2,669,035
LIGHTWEIGHT BOOT HAVING CONSTRICTING TIE
Joe J. Marx, Cincinnati, Ohio, assignor to So-Lo Works, Incorporated, Loveland, Ohio, a corporation of Ohio
Application July 27, 1951, Serial No. 238,960
1 Claim. (Cl. 36—7.3)



In a light-weight boot made of stretchable material, said boot having an ankle protecting sleeve which is sufficiently large circumferentially to slip over a shoe without binding, a tie for said sleeve adapted to gather said sleeve to provide a snug fit about the ankle of the wearer, said tie being made of readily stretchable elastic sheet material configurated to provide a band portion terminating in flared end portions, said flared end portions providing shoulders at the respective ends of said band portion, said sleeve having two pairs of apertures spaced apart circumferentially, the two most distantly spaced apertures of the respective pairs of apertures being spaced apart a distance substantially greater than the length of the band portion of the tie when said tie is unstretched, the respective apertures being no greater in diameter than the width of said band portion when the sleeve portion of the boot is unrestricted but of sufficient diameter to permit a flared end portion of the tie to be forcibly threaded therethrough upon stretching of the sleeve material to enlarge the apertures and upon stretching a flared end portion of the tie lengthwise to decrease its width, said tie being threaded through both pairs of apertures and disposed with the flared end portions thereof exposed outside of the sleeve and with the shoulders at the respective ends of the band portion adjacent the two most distantly

spaced of the apertures of the respective pairs to prevent the flared end portions from being withdrawn through the apertures upon stretching of the band portion incident to the slipping of the boot over a shoe.

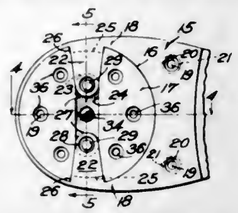
2,669,036
FLEXIBLE FOOTWEAR
Sidney Israel, Brooklyn, N. Y.
Application August 7, 1951, Serial No. 240,651
1 Claim. (Cl. 36—11.5)



An article of footwear comprising a sole of inflexible material comprising a toe member and a heel member positioned in closely spaced relationship with each, the toe member being of length sufficient to extend to a rearward edge substantially in the center of the shank of the sole, a substantially horizontal transverse slot in the toe member extending forward from the rearward edge, a short widened transverse section of the slot being of diameter significantly greater than the remaining portions of the slot so as to contain therein a beaded hinge; the heel member being of length sufficient to extend to a forward edge sufficiently close to the toe member to form a substantially complete sole together with the toe member, a substantially horizontal transverse slot in the heel member extending rearwardly from the forward edge and located so as to be aligned with the corresponding slot of the toe member when positioned in close relationship thereto, a short transverse section of the slot being of diameter significantly greater than the remaining portions of the slot so as to contain therein a beaded hinge; a single belt adapted to act simultaneously as a hinge, a heel strap means and an instep strap, said belt comprising a thin flexible elastic strap of width sufficient to fit snugly into the horizontal slots of the heel and toe members and of length sufficient both to loop over a foot placed on said members and further to fit into the horizontal slots on both sides thereof so as to act as a hinge, the strap having at least two raised beads extending along its length on each edge thereof, said beads being positioned in the widened sections of the horizontal slots and of a size to fit snugly therein to secure the strap in the sole, and a heel securing strap integrally connected to the thin strap at either end thereof, said connection constituting the only connection of said heel strap to said hinge portion.

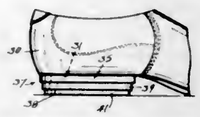
2,669,037
RUBBER HEEL WITH ROTATABLY ADJUSTED SECTION
Benjamin Gilowitz, Bronx, N. Y., assignor of one-half to Harry Litman, Bronx, N. Y.
Application March 17, 1953, Serial No. 342,839
14 Claims. (Cl. 36—36)

1. In a rubber heel having a circular rotatably adjustable wear section set in a substantially circular recess in the rear of the bottom of a heel body, the latter having rearwardly tapered corners disposed at opposite side edges of the section, means for holding said tapered corners against outward spreading and securing them to the circular section, said means comprising a pair of flexible and resilient arms extending inwardly from said corners and having lateral projections, the bottom of said section having at least one radial channel to receive said arms and also having socket means into which said projections



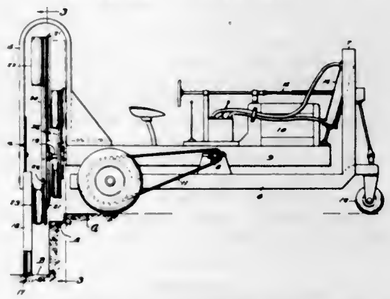
snap to prevent outward movement of said arms and outward spreading of said corners away from said section, means associated with said arms to removably retain them in engagement with said section.

2,669,038
SHOCK ABSORBING SHOE HEEL
Robert De Werth, New York, N. Y.
Application November 19, 1951, Serial No. 257,064
5 Claims. (Cl. 36—38)



1. A shock absorbing shoe heel, comprising an outer member for attachment to a shoe and having an open bottom, an inner member having an open top slidably fitted into said outer member, spring connectors between said members joining them together so that said inner member can move relative to said outer member, said inner member having a recess in its bottom face, and a wear heel mounted in said recess and depended from the bottom face of said inner member, said inner member being divided into a front portion and a rear portion, said wear heel being divided into separate portions one for each of said portions of said inner member.

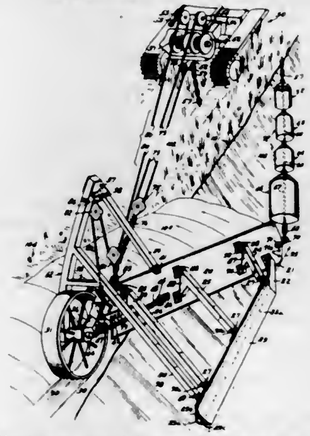
2,669,039
ROTARY WHEEL-TYPE DITCHING MACHINE
Benjamin E. Bunnell, New Madrid, Mo.
Application August 30, 1948, Serial No. 46,815
2 Claims. (Cl. 37—92)



1. In a ditching machine an elongated substantially rectangular frame, traction wheels mounted on the frame adjacent one end thereof, a drive shaft mounted on the frame intermediate the ends thereof to rotate about a transversely

extending horizontal axis, drive means carried by the drive shaft and connected to the traction wheels for rotating the traction wheels as the drive shaft rotates, an elongated platform carried intermediate its ends by the drive shaft for rocking movement about the axis of said shaft, a prime mover connected to the drive shaft for rotating said platform, an arch carried by and extending upwardly from the frame, cylinders having pistons working therein, the cylinders and pistons being connected respectively to the arch and to the platform and a manually controlled valve for introducing hydraulic fluid into and exhausting such fluid from the cylinders for tilting the platform about the axis of the drive shaft, rotary diggers carried by the platform beyond the end of the frame adjacent the traction wheels, and means connected to the diggers and to the prime mover for establishing driving connection between the prime mover and the diggers.

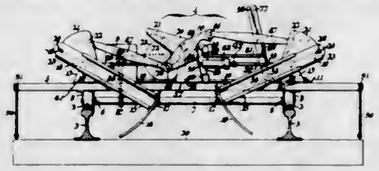
2,669,040
V-TYPE DITCHING MACHINE ADJUSTMENT
Owen L. Gregerson, Gunnison, Utah
Application September 17, 1946, Serial No. 697,489
12 Claims. (Cl. 37—98)



1. A ditching machine comprising a V-shaped frame composed of a moldboard leg and a landside leg; a trailing wheel arranged outside said V-shaped frame to support the outboard portion of said moldboard leg; an A-frame having one leg strut at least partially supported on said trailing wheel and another leg strut connecting the first-mentioned leg strut to said landside; and a flexible connector extending from said A-frame to said outboard portion.

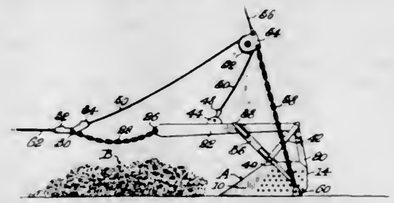
2,669,041
APPARATUS FOR REMOVING BALLAST FROM BELOW RAILROAD TRACK RAILS
Joseph Mickle Fox, Haverford, and Clarence John Reigh, Altoona, Pa.
Application May 1, 1948, Serial No. 24,468
14 Claims. (Cl. 37—104)

1. Apparatus for removing ballast from below track rails intermediate adjacent ties comprising a wheeled truck; means on the truck supporting swingable kickers each including a telescopic adze-like member; mechanism on the truck operatively coordinating the kickers for simultaneous oscillation in opposed directions; means on the truck for maintaining the kickers elevated when said kickers are inactive; means on the trunk operative to oscillate the kickers; means on the truck to move the telescopic members outwards to increase the depth of ballast removed; recoil means on the truck opposing the active swing of the kickers and effective to impart



an initial impulse during the reverse swing of said kickers; and power means on the truck operative to impel the kicker adze-like members against the ballast below the track rails.

2,669,042
DRAG SCOOP FOR HANDLING RIPRAP
Clayton J. Swank, Greenville, Miss.
Application March 20, 1951, Serial No. 216,645
3 Claims. (Cl. 37—115)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A drag scoop for moving massive broken rock such as riprap rock from a pile thereof resting on a substantially flat surface, the said scoop being adapted to be actuated by operating mechanism provided with retracting and hoisting means for a load, which drag scoop comprises a scoop body having a substantially flat bottom terminating forwardly in a continuously smooth, uniform, and unobstructed loading lip and having also an uninterrupted, smooth, and flat underside surface, opposite side walls integral with the bottom and extending upwardly therefrom, a rear wall connecting the side walls and integral therewith and with the bottom of the scoop, a column-beam on the rear wall projecting upwardly therefrom and integral therewith, a plow-beam secured at an end to the said column-beam at a substantial distance above the scoop for providing substantial clearance above a pile of rock to be moved and maintaining unobstructed the lip and interior of the scoop, the plow-beam projecting forwardly above the scoop a substantial distance in advance beyond the loading lip and parallel to the flat bottom of the scoop, the said plow-beam having a free end opposite to the end secured to the column-beam and having a mass sufficient to continuously unbalance the scoop forwardly on the lip for causing the lip and scoop to enter into the pile of riprap rock being moved between the pile and the flat surface on which the pile is resting, a drag hook connected to the scoop, a drag cable interconnecting the free end of the plow-beam to the drag hook and adapted to impart a straight-line pull on the plow-beam, a drag line interconnecting the drag hook and operating mechanism, and suspension means for suspending the scoop from the operating mechanism including a pulley sheave, a pulley block housing the pulley sheave, flexible lifting means pivotally connected to the scoop rearwardly thereof and adjacent to the bottom of the scoop, the lifting means being also connected to the pulley block,

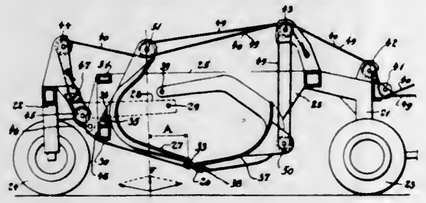
a hoist line interconnecting the pulley block to the operating mechanism, and a stabilizing line connected to the plow-beam and to the drag hook and passing over the pulley sheave for maintaining the scoop horizontal while suspended between loading and dumping positions and also between dumping and loading positions, the said stabilizing line having a slack therein proportional to slack in the drag cable between the plow-beam and drag hook so that when the latter becomes taut incident to a rectilinear pull thereon as the scoop is pulled by the drag cable and drag line into the rock pile for filling the scoop, the slack in the stabilizing line also is taken up while avoiding appreciable tension on the stabilizing line for preventing lifting action on the loading lip of the scoop by the stabilizing line during filling of the scoop, the aforesaid suspension means being attached to the scoop and to the operating mechanism for imparting only substantially rectilinear movements to the scoop throughout its cycle of loading and dumping.

2,669,043

DUMPING CONTROL FOR SCRAPERS

Karl E. Reischl, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware

Application March 28, 1947, Serial No. 737,790
15 Claims. (Cl. 37—126)



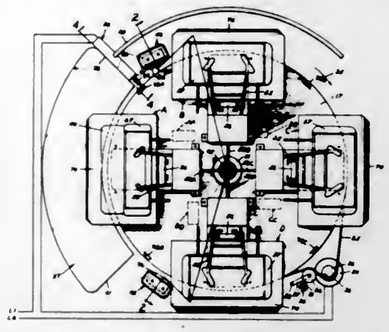
1. In a carry-type earth-moving scraper, having: a main frame, comprising side-plates and cross-bracing; a first ground-support, supporting one end of the main frame; a second ground-support, supporting the other end of the main frame for vertical movement relative thereto; a transverse forwardly-pointing digging-blade, carried by the main frame adjacent the bottom thereof; means, operatively connecting the second ground-support to the main frame, to raise and lower the free end of the main frame about the first ground-support, and thereby raise and lower the digging-blade; a dirt-retaining element, pivoted on the main frame adjacent the digging-blade, so that this element may be tilted forwardly from dirt-retaining position to dumping position; and means, operatively connecting the main frame to said element remote from the pivot thereof, for thus tilting said element; the combination therewith of: a reach of rope, extending from front to rear of the scraper, and supported thereby; means operatively connected with this reach of rope for maintaining tension therein; and means, carried by the dirt-retaining element remote from the pivot thereof, and engaging and movable along the reach of rope; this reach of rope, the pivot of the dirt-retaining element, and the movably engaging means being so disposed relative to each other that the force applied by the reach of rope against the movably engaging means, when the reach of rope is under tension, tends to tilt the element forwardly when in its dirt-retaining position, and tends to tilt the element rearwardly when in its extreme dumping position.

2,669,044

ROTARY PRESS

Ira C. Maxwell and Ole H. Langen, Minneapolis, Minn., assignors, by mesne assignments, to The Unipress Company, Incorporated, Minneapolis, Minn., a corporation of Minnesota

Application April 26, 1948, Serial No. 23,204
18 Claims. (Cl. 38—5)



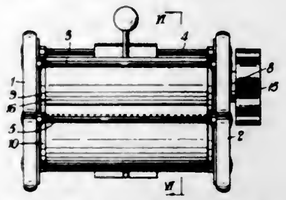
1. A pressing machine comprising a frame, means mounting the frame for rotary motion around a vertical axis of rotation, a plurality of pressing machines mounted at spaced intervals around said frame for movement therewith around a closed path having a closing station, an opening station and an operator station, each pressing machine having a buck and a presser head movable into and out of cooperating engagement with the buck, motor means and a closing control and an opening control therefor on each press for causing said cooperative movements of the presser head, frame rotating motor means connected to the frame for rotating the frame, a closing control actuating protuberance at said closing station and positioned so as to actuate an extending cam follower to actuate the closing control of each press thereby to close said press as the frame moves the press past the closing station, and an opening control actuating protuberance located at said opening station and positioned to actuate said opening control of each press thereby to open it as each press is moved past said opening station, said apparatus being further characterized in that a guard is provided around the path of movement of the presses throughout at least that portion of said movement during which the press closes.

2,669,045

APPLIANCE FOR PRESSING NECKTIES OR STRIP MATERIAL

John Siddons Corby, Old Windsor, England

Application April 17, 1951, Serial No. 221,408
Claims priority, application Great Britain April 18, 1950
2 Claims. (Cl. 38—11)



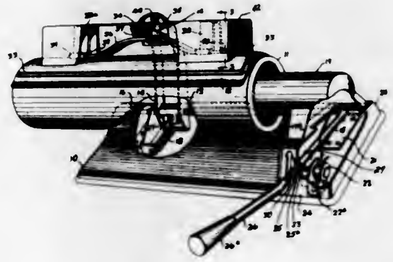
1. A pressing appliance comprising supporting means, two rollers mounted on said supporting means, said rollers being connected together by a strip of flexible material, said strip of material being attached at its opposite ends to a respective roller and adapted to be unwound from one of said rollers and wound on the other of said rollers and rewound on said first-mentioned roller, one of said rollers being spring-biased in a direction tending to return said roller to its starting position, the other of said rollers being arranged for manual actuation, a spring actuated member disposed for releasable abutment against said strip of flexible material when wound on said second-mentioned roller for retaining the latter in a predetermined manually adjusted position and serving additionally for pressing upon an article wound up between the convolutions of said flexible material, said spring actuated member being arranged for releasing its respective roller when moved away from the latter, thereby enabling said spring-biased roller to be returned to its normal position in order to simultaneously wind said strip thereon and unwind said strip from said other roller while the latter returns to its normal position.

2,669,046

CLOTHES IRONING MACHINE

Evan Hartley Stevenson, Fergus, Ontario, Canada

Application June 16, 1951, Serial No. 231,928
3 Claims. (Cl. 38—60)



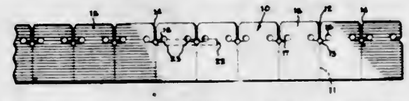
1. For an electric ironing machine having a base, a housing mounted on said base and formed with a bracket extending horizontally above said base, a rotatable ironing roll supported by said bracket for rotation about a horizontal axis, an electric motor for rotating said roll, and an electrically heated ironing shoe mounted on a rotatable shaft for movement into and out of operative engagement with the ironing roll; means for moving said shoe into and out of engagement with said roll and for simultaneously therewith either starting or stopping said motor comprising a guide slot formed vertically in the front wall of said housing and having at the lower end an arcuate terminal recess, a manually operated articulated control lever connected to said shaft and extending outwardly through said slot for moving said shoe into and out of engagement with said roll, said lever having a flat section guided in said slot when said shoe moves into and out of operative engagement and rotating said lever when the flat section enters the terminal recess and locks said lever in operative engagement with said roll, an electric switch for said motor positioned in the housing adjacent said terminal recess, a switch actuating surface on said lever positioned to actuate said switch when said lever moves the shoe into and out of operative engagement with the roll to energize and de-energize said motor respectively.

2,669,047

MARKING TAG STRIP FOR PRICE MARKING PRODUCE

Frederic L. Rieger, Dayton, Ohio, assignor to The Monarch Marking System, Dayton, Ohio, a corporation of Ohio

Application December 30, 1950, Serial No. 203,647
4 Claims. (Cl. 40—2)



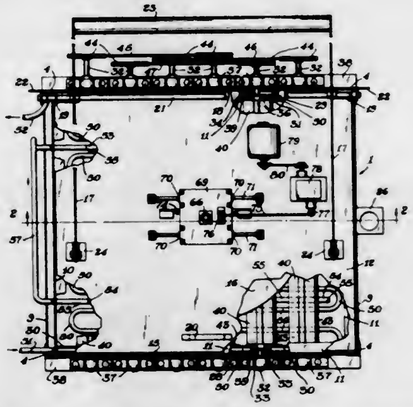
1. A strip of price marking tags comprising a plurality of tags defined one from the other by serrated lines of weakening extending transversely of the strip at equally spaced intervals, a substantially diamond-shaped feed finger notch cut through the strip on each of the lines of weakening providing a pair of substantially V-shaped throats at opposite sides of each tag in the strip, each tag pierced to provide a pair of substantially circular apertures disposed between the respective V-shaped throats but tangent to a line extending longitudinally of the strip and joining the inner terminal of the throats, and each tag slit along said line between the respective throats and adjacent apertures whereby a tag separated from the strip is adapted to be secured onto a string or the like by forcing the string through the respective slits into the apertures.

2,669,048

ETCHING MACHINE

John A. Easley, William E. Eden, and Harry E. Swayze, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application November 26, 1952, Serial No. 322,650
6 Claims. (Cl. 41—9)



1. In an etching machine for etching printing plates, the combination of a tank adapted to contain a liquid etching composition; a series of paddle blades having horizontal parallel axes lying in a plane above the upper surface of the etching liquid in the tank when filled to its working level and adapted on being revolved to splash the etching liquid about the tank; upstanding baffles between the said paddle blades adapted to guide the splashed etching liquid in a generally vertical direction; a removable cover adapted to form a closure for the top of the tank so as to prevent escape of etching liquid on being splashed in the tank; a work holder plate above

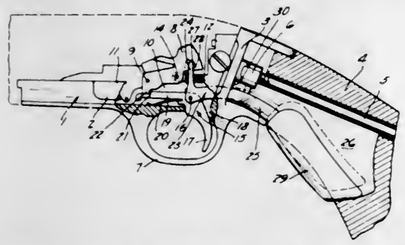
the baffles below the underside of the cover; motor means on the top of the cover adapted to impart to the work holder simultaneously a translatory and rotational motion in a horizontal plane.

2,669,049
ARTIFICIAL CHRISTMAS TREE
Garland B. Smith, Madison, Wis.
Application April 27, 1950, Serial No. 158,349
4 Claims. (Cl. 41—15)



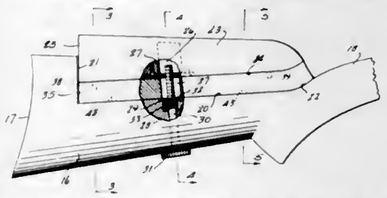
1. A metal foil novelty device comprising: a plurality of similar substantially triangular metal foil blanks, each folded along a pair of lines spaced at opposite sides of the vertical center line of the blank and converging upwardly toward the same, said folds dividing each blank into a longitudinally medial zone and a left and right wing; seams extending along said fold lines and fastening each of said blanks to a pair of other blanks with the left wing of each blank substantially coterminous with the right wing of its adjacent blanks; and the medial zones of said blanks being arcuately curved in cross section and cooperating to define a single thickness tapering tubular center post from which said wings extend substantially radially.

2,669,050
SAFETY DEVICE FOR GUNS
Eddie J. Quick, Minneapolis, Minn.
Application October 1, 1951, Serial No. 249,028
1 Claim. (Cl. 42—70)



A device of the class described including a frame having a hand-engaging butt, a hammer mounted in said frame for limited pivotal movements from a cocked to a firing position, means biasing said hammer toward said firing position, a trigger, means mounting said trigger for limited pivotal movements, means biasing said trigger in one direction, means associated with said trigger for arresting movements of said hammer when said hammer is moved to a cocked position, movement of said trigger against said bias releasing said hammer for firing movements, a bell crank mounted for independent pivotal movements on the trigger-mounting means and having an upwardly-extending arm and a rearwardly extending arm, a laterally-projecting stop lug adjacent the free end of said hammer, detent means on the upwardly-extending arm of said bell crank, means biasing said bell crank toward the limit of its movement in one direction whereby to cause said detent means to be engaged by the stop lug on said hammer when said hammer is moved to its cocked position, a portion of the rearwardly-extending arm of said bell crank projecting downwardly and outwardly through the bottom of said frame and engageable by the butt-encompassing fingers of the firing hand of the user, movement of said bell crank against bias exerted thereagainst causing disengagement of said detent means with said stop lug whereby to permit firing movement to be imparted to said hammer through said trigger, said frame being provided with a rearwardly-projecting coupler boss which extends into said butt, the biasing means for said bell crank comprising a torsion spring encompassing said boss, and said torsion spring having one end anchored in said frame and its opposite end in engagement with the intermediate portion of the rearwardly-extending arm.

2,669,051
CONVERTIBLE GUN STOCK
Joda Cline, Baisden, W. Va.
Application May 4, 1951, Serial No. 224,543
4 Claims. (Cl. 42—71)



1. A convertible gun stock comprising a stock body having a recess extending longitudinally of the upper portion thereof from the grip of the stock to a location spaced from the butt end thereof and in the space normally occupied by the comb portion of the stock, a separate comb piece fitted into said recess and having a recess intermediate its length, a plate secured to said comb piece in covering relationship to said recess and having a screw threaded aperture therein, said body having an aperture extending transversely therethrough in alignment with the recess in said comb piece, a screw extending through the aperture in said body and threaded into said plate, said screw having a head bearing against said body at the end of said aperture remote from said comb piece to firmly secure said comb piece to said body, and a filler disposed in said recess between said body and said comb piece to raise the latter relative to said body, said filler having an opening therein receiving said screw.

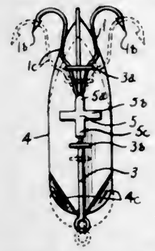
2,669,052
SIGHT RIB FOR SHOTGUNS
Ernest P. Simmons, Kansas City, Kans.
Application March 28, 1949, Serial No. 83,821
5 Claims. (Cl. 42—76)

1. In combination with a shotgun having a barrel, a plurality of support members fixed to said barrel in longitudinally spaced relation thereabout and extending outwardly from said barrel, an elongated rib extending longitudinally relative to said barrel and carried for longitudinal sliding movement at the outer ends of said support members, a depending lug fixed permanently



and rigidly to said rib, a stop member fixed permanently and rigidly to said barrel and extending thereabove, the extended portion thereof abutting against the forward end of said lug, and a screw extending vertically through said rib and threaded into said stop member.

2,669,053
EXPANDING FISHHOOK
Martin John Cavanaugh, Elmira, N. Y.
Application July 13, 1948, Serial No. 38,382
1 Claim. (Cl. 43—36)



An expanding-hook fishing lure, comprising a spoon-shaped body; a hook assembly including a plurality of fish hooks of resilient wire normally flaring outwardly from the axis of the assembly and having barbed ends, said assembly being mounted on the body for limited longitudinal movement with respect thereto; means on said body for contracting the barbed ends of said hooks together when the assembly is pulled in the forward direction with respect to said body; means for attaching said lure to a fishing line, said hooks in the assembly being joined together at the leading ends of their shanks so that the shanks will flare outwardly with the barbs disposed at the trailing ends of the shanks and extending outwardly therefrom; an outwardly extending cam portion on each shank near the barbed end thereof, said cams underlying said contracting means when said assembly is pulled in the forward direction, thereby laterally bunching the hooks in said forward position, and a cross member connecting the shanks at their leading ends, said contracting means comprising a member secured to said body and extending longitudinally thereof; a pair of spaced parallel eyes on said member; the hook assembly extending through the rear eye so that the leading end thereof can travel between the two eyes, its travel being limited by said cross member, and the barbed ends of the hooks being contracted by the rear eye pressing said cam portions of the shank together when the leading end of the hook assembly is pulled into the forward eye.

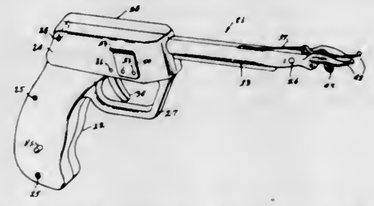
2,669,054
FISHING LINE FLOAT
William T. Smith, Sr., Hialeah, Fla.
Application June 26, 1952, Serial No. 295,616
1 Claim. (Cl. 43—43.11)

A fishing line float comprising a hollow semispherical upper section of a casing, said upper section being sealed, a perforated lower section frictionally mounted on the upper section and provided with openings whereby water enters said lower section, a reel having a pair of spools thereon journaled on the lower end of the upper section and positioned in the lower section, a ratchet wheel positioned on said reel, a pawl mounted on the upper section and positioned to engage the teeth of the ratchet wheel to prevent the reel turning in one direction, a fishing line



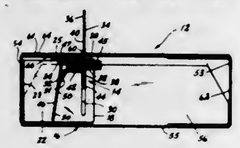
section having hooks and a sinker thereon extended around a section of the reel, a second fishing line section extended around another section of the reel, and extended through the upper section of the float, and a float positioned on the pawl for elevating the pawl to release the ratchet wheel and reel as the lower section of the float fills with water, whereby the section of the fishing line having hooks and a sinker thereon is released.

2,669,055
FISHHOOK REMOVER
Frank J. Doerr, Richmond Hill, N. Y.
Application June 27, 1951, Serial No. 233,897
3 Claims. (Cl. 43—53.5)



1. A fishhook remover for removing a barbed hook from the mouth of a fish, said remover having handle, base, and muzzle sections, comprising a fixed guide fork at the end of the muzzle section, the tines of said fork extending longitudinally in generally the same direction as the base, said guide fork being insertable into the mouth of the hooked fish to receive the bill of the hook between the tines thereof, a cutting unit comprising an arm at one end and a pair of cutting members at the other end, said cutting unit being mounted for pivotal movement between the tines of the said fork, said cutting members having an arcuate shape corresponding substantially to the shape of the hook; each of said cutting members having a free end of a cross-sectional dimension in a plane parallel to the plane of the hook at least equal to the dimension of the hook across its barb; means for rotating said cutting members from a first position to a second position where said cutting members enter the opening caused by the hook on either side of the hook and cover the barb; the fish then hanging from the cutting members and being slidable along said spear members to remove the fish readily from said hook and spear members.

2,669,056
MOUSETRAP
John L. Lehman, St. Louis, Mo.
Application March 24, 1949, Serial No. 83,179
6 Claims. (Cl. 43—79)



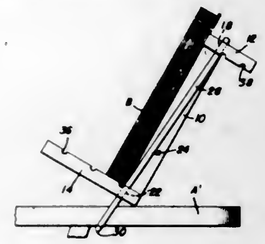
3. A disposable rodent trap, comprising a box-like container of cardboard or like material including a hinged cover having a slot therein; and a plunger assembly positioned within the container, the plunger assembly including a stationary sheet metal frame of inverted U-shape having a flat transverse top portion snugly fitting underneath the top of said container and depending leg portions disposed against the side walls of said container and being of rectangular configuration of a height substantially the same as the interior of said container and having a flat edge bottom resting on the bottom surface of said container so as to be disposed against any rocking movement within the container, a sheet metal plunger of inverted T-shape reciprocally mounted in the frame and movable between a tripped position and a cocked position, the upper end of the plunger extending through the slot in the cover to maintain the plunger assembly in longitudinal position relative to the ends of the container without additional fastening means between the plunger assembly and the container, spring means disposed between the frame and the plunger urging the plunger toward the tripped position, and means for releasably holding the plunger in the cocked position.

2,669,057
FUR PELT DRIER AND STRETCHER
Eugene Schulz, Sr., Merrill, Wis.
Application June 25, 1951, Serial No. 233,292
1 Claim. (Cl. 45—24)



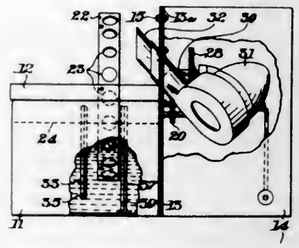
In a fur pelt dryer and stretcher of the type comprising a pair of elongated side rods extending divergingly from their tail ends toward their head ends, a transversely disposed spreader member connecting the side rods at a point adjacent and rearward of their head ends, and a second spreader member connecting the rods at their extreme tail ends, a pair of U-shaped clips, each clip extending around one of said side rods and having its opened end extending outwardly therefrom, a set screw extending transversely across said opening of each clip, and a pair of hooks, each hook having its inner end looped about said set screw, whereby each hook is slidably and adjustably mounted to one of said side rods.

2,669,058
BOOKREST
Herbert J. Fadeley, Jr., Philadelphia, Pa.
Application June 15, 1951, Serial No. 231,815
5 Claims. (Cl. 45—58)



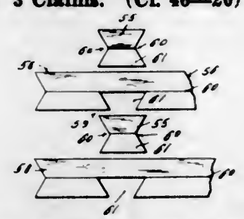
1. A book rest comprising an elongated support member, first and second ledge-forming strips secured to and projecting laterally from the ends of said support member and from opposite sides of the support member, each of said strips having an end aperture, and a U-shaped wire attaching member having leg portions slidable in said apertures and a web portion underlying one of the strips, and lateral projections on said leg portions overlying the other strip.

2,669,059
BUBBLE BLOWING MACHINE
Oxford Douglas McNeill, Forest Hill, Ontario, Canada, assignor to Colgate-Palmolive Company, Jersey City, N. J., a corporation of Delaware
Application June 1, 1950, Serial No. 165,444
4 Claims. (Cl. 46—8)



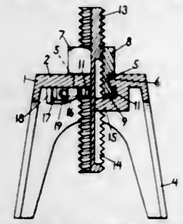
1. A bubble blower comprising, a tank for containing a film-forming bubble liquid, a hub means for supporting the hub for rotation within the tank, a hollow thin-walled cylindrical rotor supported from said hub in concentric relationship therewith with a chordal segment of the rotor below a liquid level in the tank, said rotor having a plurality of film-forming apertures in the cylindrical wall thereof, an air-delivery station exterior to the tank, a motor for rotating said hub and rotor to advance said aperture successively beneath the liquid level in the tank, a motor-driven blower to deliver air to said station, and means to direct air from said station slantwise across said rotor from the inside to the outside thereof through said apertures.

2,669,060
TOY LOG CABIN
Lewis J. Kalvig, Hackensack, Minn.
Application April 13, 1949, Serial No. 87,153
3 Claims. (Cl. 46—20)



1. A structure of the class described having side and end walls, each wall comprising a tier of horizontal longitudinal members, the end portions of the members at each corner of the structure being crossed, the inner and outer sides of said members each having a longitudinal groove that extends the full length thereof, each groove in cross-section being in the form of a V having an angle at the intersection of the two legs thereof of more than 90°, each member in each of said corners having a transverse notch the sides of which are in outwardly converging relation, said notches being in corresponding horizontal surfaces of the members, in each of said corners, the members in one wall at each of said corners extending endwise through the notches in the members in the other wall with a sliding working fit and thereby interlocking the members in each of said corners.

2,669,061
MECHANIC SIMULATING TOY WITH SOUND EFFECT
Louis M. Orren and Thomas M. Orren, Waco, Tex.
Application June 11, 1952, Serial No. 292,784
1 Claim. (Cl. 46—39)



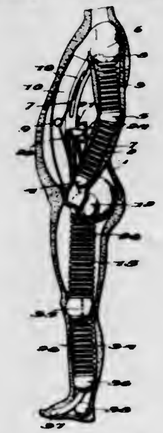
A noise making toy for simulating a working mechanic, said toy comprising a plate having an opening and having two portions united along a plane passing through the axis of said opening; an internally threaded screw nut made of one piece, having a neck rotatably passing through said opening and having two parts of larger diameters than said opening, said parts being positioned at opposite sides of said plate, one of said parts forming a screw head shaped like an ordinary nut; the other part being a toothed wheel; a resilient rattle blade having one end affixed to one of said plate portions and having another end reaching into the toothed circumference of said wheel said toothed wheel and rattle blade constituting a noisemaking mechanism; a screw bolt passing through and engaging said nut and having a longitudinal groove; and a key formed by a projection of one of said plate parts and extending into said groove in a direction perpendicular to said plane, said screw head adapted to be rotated by a spanner having a mouth fitting said screw head engagingly and separably to raise or lower said screw bolt and simultaneously actuate said noisemaking mechanism.

2,669,062
TOY SWORD
Edmund W. Baggott, Brooklyn, N. Y., assignor to Ideal Toy Corporation, Hollis, N. Y., a corporation of New York
Application April 24, 1952, Serial No. 284,161
7 Claims. (Cl. 46—88)



1. A toy sword comprising a hilt and a blade portion adapted to be secured to said hilt, said blade portion being hollow and made from a soft, bendable, and resilient material and being sealed along its entire periphery except at its top end to render it inflatable, said blade portion having a pair of integral wings projecting from opposite longitudinal edges thereof and located intermediate its ends, said wings also being hollow and communicating with the hollow interior of said blade portion, said hilt having a through longitudinal bore and transversely-extending recesses communicating with said bore and sized to receive the wings of said blade portion, said blade portion in collapsed condition being sized for insertion through said bore with its top open end projecting from said hilt for inflation of said blade portion and with said wings in registry with said hilt recesses, said wings being of sufficient size in inflated condition to be snugly received within the recesses of said hilt, to hold the end of said blade portion in said hilt when said blade portion is inflated.

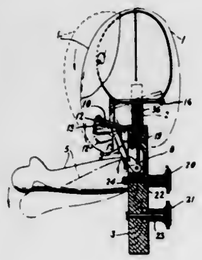
2,669,063
GROWING FIGURE TOY
Paul Wentworth Lang, Los Angeles, Calif., assignor to Tobey Maltz Foundation, Inc., New York, N. Y., a corporation of New York
Application May 1, 1950, Serial No. 159,320
6 Claims. (Cl. 46—119)



1. A figure toy comprising a resilient tubular casing, an expandible and contractible coil spring

enclosed by said resilient tubular casing, a terminus member embedded in the end of said tubular casing, a ball member floatingly supported in the end of said tubular casing and slidably engaged by said terminus member, said coil spring being connected with said terminus member for forcing said terminus member in sliding cam-like contact with said floatingly supported ball member for displacing said terminus member and said ball member within said tubular casing for stretching said tubular casing as said coil spring expands for simulating animate growth at the end of said tubular casing.

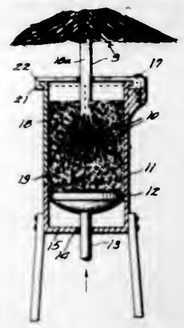
2,669,064
ANIMATED DOLL
Henry P. Stewart, New York, N. Y.
Application December 30, 1948, Serial No. 68,128
5 Claims. (Cl. 46—120)



1. A doll comprising a body, a head movable into at least three different positions, flexible rubber supporting means for the head, two arms extending from the body, each of said arms connected respectively to one end of two rotatable shafts, a flexible cable connecting the other end of one of said shafts to the rubber supporting means whereby the head is turned when one of said arms is moved up and down, a rod connecting the free end of said other shaft and said supporting means whereby the head is tilted forward when said other arm is moved down, a mounting connected to said rubber supporting means, a first knob projecting from the body, a crossbar connected to said knob, rubber strips connected between the free ends of said crossbar and opposite sides of said supporting means whereby the head is swayed from side to side when the knob is turned back and forth, a second knob projecting from the body, a member pivotally mounted on said mounting means, and rubber segments connected between the free ends of said member and each of said arms whereby the arms are moved towards and away from one another when said knob is turned back and forth.

2,669,065
EXTRACTING PLANTS WITH THEIR ROOTS AND PACKING THE ROOTS
Samuel E. Clegg, Plainfield, Ill.
Application February 3, 1950, Serial No. 142,135
9 Claims. (Cl. 47—37)

1. Apparatus for compressing the roots of an extracted plant, together with the earth between and surrounding the roots, into a compact mass comprising a container of substantially uniform cross section into which the roots and earth are introduced, a closure for one end of the container embracing the trunk of the plant, and a piston in said container having relative movement with respect thereto longitudinally of the axis of the

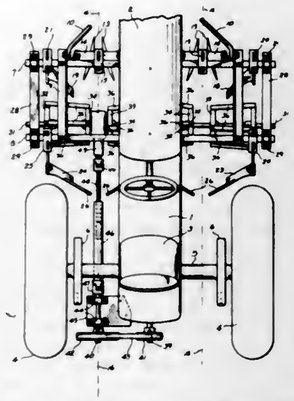


trunk for compressing the roots and earth within the container between said piston and closure.

2,669,066
METHOD OF TREATING AND APPLYING LIVE POLLEN
Leo C. Antles, Wenatchee, Wash.
No Drawing. Application April 19, 1948, Serial No. 21,860
12 Claims. (Cl. 47—58)

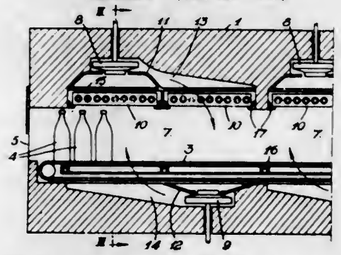
1. The method of preserving the life and viability of live pollen after it has been gathered from blossoms, comprising mixing said live pollen with a carrier diluent in the form of a powdered animal product of high protein content having an iso-electric rating expressed in pH units of from 4.0 to 6.0, a nitrogen content of 14% to 16%, a water absorbing characteristic expressed as non-hygroscopic, a specific gravity of from 1.15 to 1.30 and an electrostatic quality the same as that of the pollen.

2,669,067
METHOD OF CULTIVATING ROW CROPS
Joe Severance, Grangeville, Idaho, assignor of one-half to Robert C. Chattin, Boise, Idaho
Application March 26, 1949, Serial No. 83,580
6 Claims. (Cl. 47—58)



1. A method of cultivating soil between the rows of a row crop planting area, comprising the steps of cutting vertical soil severance boundaries closely adjacent the sides of those rows bounding the opposite sides of the area to be thus cultivated and moving the soil thus severed laterally away from said rows and toward the center of said area, severing a majority but less than all of the undisturbed soil between said boundaries in a horizontal plane at a predetermined depth, and immediately pulverizing said severed soil and a majority of the remaining undisturbed soil between said boundaries and to said depth to prevent dehydration thereof.

2,669,068
FURNACE FOR ANNEALING GLASS
Ovide Wambreuse, Brussels, Belgium
Application July 21, 1949, Serial No. 106,058
Claims priority, application Belgium August 13, 1948
4 Claims. (Cl. 49—47)

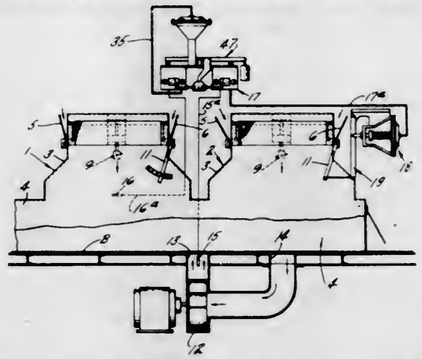


1. A furnace for annealing glass articles comprising an annealing tunnel, a conveyor for carrying glass articles through said tunnel, a plurality of gas ducts in said tunnel, gas heating means and gas blowing means in said tunnel, said ducts, heating means and blowing means forming independent continuous circuits for the gas streams in said tunnel, said gas streams passing through the charge in a direction which is perpendicular with respect to the direction of the movement of the charge, said gas ducts opening into said tunnel through complementary gas inlets and gas outlets located above and beneath the conveyor, each gas inlet above the conveyor being located substantially vertically above and cooperating with a gas outlet beneath the conveyor and each gas outlet above the conveyor being located substantially vertically above and cooperating with a gas inlet beneath the conveyor, all said gas inlets and gas outlets above the conveyor, and all said gas inlets and gas outlets beneath the conveyor succeeding each other alternately in the direction of movement of the charge carrying portion of the conveyor.

2,669,069
GLASSWARE ANNEALING METHOD AND APPARATUS
Donald G. Merrill, West Hartford, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware
Application November 24, 1950, Serial No. 197,255
12 Claims. (Cl. 49—47)

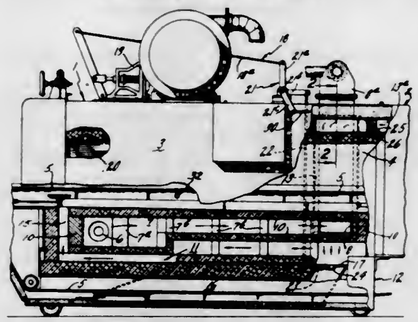
1. The method which comprises subjecting glassware to heat treatment appropriate for conventional annealing thereof until said glassware has a temperature approximately that of its lower annealing limit, and then subjecting the glassware at about said temperature to heat shock by applying thereto a cooling medium at a temperature approximately 150–300° F. lower than said lower annealing limit and of sufficient cooling intensity to cause breakage of glassware having less than a predetermined minimum resistance to heat shock.

7. In a glassware annealing tunnel lehr, a first section of the tunnel having means for recirculating and maintaining the atmosphere of said section at a first temperature, a second tunnel section having damper means for controlling the flow of outside cold air into said second section, damper means for controlling exhaust of air directly from said second section, means for circulating air transversely of said second section, means for drawing air from one point in the tunnel and discharging it in a transversely directed stream



back into said tunnel directly adjacent said first section, a first temperature responsive element located in said first section, a second temperature responsive element located in the lehr adjacent the said discharge point and in said air stream, and control means responsive to said two elements for automatically and simultaneously opening and closing said dampers of the second section to maintain a preselected temperature differential between said two elements.

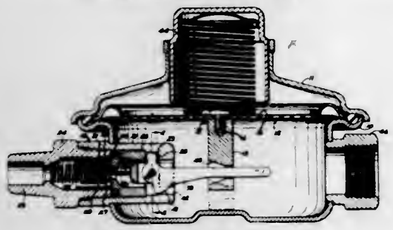
2,669,070
LEHR
Constantine W. Kulig, Hartford, Conn., assignor to Emhart Manufacturing Company, Hartford, Conn., a corporation of Delaware
Application April 14, 1951, Serial No. 221,087
3 Claims. (Cl. 49—47)



1. In a glassware annealing tunnel lehr having a heating and conditioning section and a cooling section which provide conditioning and cooling zones of the tunnel through which ware is transported, means for withdrawing atmosphere from the cooling zone of said tunnel and directing the withdrawn atmosphere to the conditioning section of the lehr, means for dividing said withdrawn atmosphere and reintroducing a portion only of the withdrawn atmosphere into the conditioning zone of the tunnel, and discharging another portion out of the lehr, and means for automatically regulating the quantity of with-

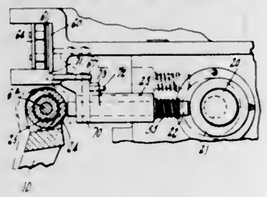
drawn atmosphere, said regulating means being responsive to lehr temperature in the conditioning zone.

2,669,071
FLAT CHARACTERISTIC REGULATOR
Theodore A. St. Clair, Cleveland, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application August 23, 1951, Serial No. 243,225
4 Claims. (Cl. 50—26)



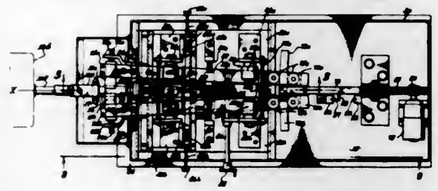
1. A fluid pressure regulator comprising a casing, a diaphragm forming with said casing a pressure chamber, a fluid inlet sleeve mounted in said casing formed with an inwardly extending substantially radial flange at the inner end thereof, an inner sleeve having an inlet port positioned in said inlet sleeve with the end wall thereof spaced from said flange, said flange in cooperation with said inner sleeve defining axially spaced substantially radial walls, said inner sleeve formed with a valve seat surrounding said port and facing away from said chamber, a valve having a rubber-like member for engaging said seat, valve opening means extending from said valve toward said chamber, motion reducing lever means extending between said diaphragm and said valve opening means, said lever means formed with an ear positioned between and axially located by said axially spaced substantially radial walls, and being arranged so that fluid pressure in said chamber tends to withdraw said lever means from said valve opening means permitting inlet pressure to close said valve, and an outlet for said chamber.

2,669,072
GRINDING WHEEL RECIPROCATING MECHANISM
Paul A. Grobey, Springfield, Vt., assignor to Bryant Chucking Grinder Company, Springfield, Vt., a corporation of Vermont
Application June 7, 1951, Serial No. 230,349
9 Claims. (Cl. 51—50)



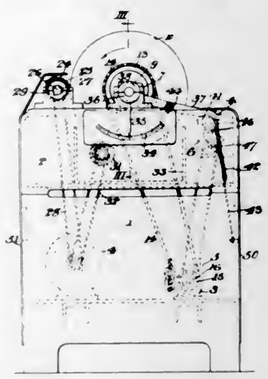
1. In a grinding machine, an oscillatory support, a member connected to and movable with said support, a rotary grinding wheel carried by said support, an oscillatory member spaced from said movable member, and a device mounted for motion from and to a position between said members and when in said position filling said space and transmitting vibratory motion from said oscillatory member through said device and said movable member to said grinding wheel, said device comprising a pair of portions normally in alinement when said device is in said position and relatively yieldable laterally of the direction of vibration when being moved into said position, and means operatively connected to said portions tending to move said portions into such alinement and there hold them.

2,669,073
GRINDING MACHINE
Merle S. Bendickson, San Gabriel, Calif.
Application April 22, 1952, Serial No. 283,717
11 Claims. (Cl. 51—67)



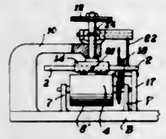
2. In apparatus for grinding a work piece that is rotated about a grinding axis, a pair of grinding elements, means for urging a pair of grinding elements against opposite surfaces of such workpiece, means for moving said grinding elements in unison and to and fro in a plane that includes said grinding axis while said workpiece is so rotated with said grinding elements urged thereagainst, and means including guide elements for limiting the movement of said grinding elements in a direction transverse to said surface whereby the pressure of said grinding elements on said surface is relieved when said surface has been ground to a predetermined shape.

2,669,074
GRINDING MACHINE
Earle L. Harley, Brooklyn, N. Y.
Application December 29, 1950, Serial No. 203,313
3 Claims. (Cl. 51—105)



1. A machine of the character described for grinding an object comprising, a rotatable grinding roller, a rotatable support for the object to be ground, a gauge attached to said support for setting the grinding depth, means for rotating the roller at one speed, other means for rotating the support at a lesser speed, eccentric bearings in said support, an arm connected to said bearings, a switch controlling said support rotating means, a projection on said arm in proximity to the switch, a roller on said arm, a cam engaging said roller, cam driving means, and a common frame for supporting said elements, the elements being so constructed and arranged that when the gauged depth has been attained the arm projection moves and actuates the switch to stop the support rotating and the cam driving means.

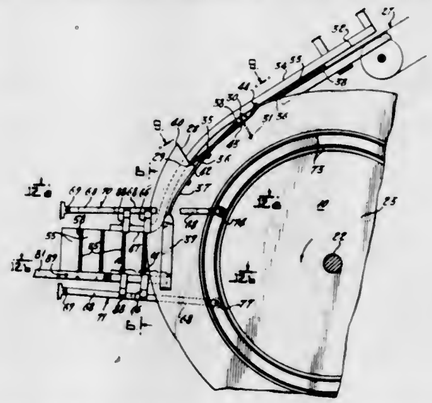
2,669,075
MACHINE FOR BLUNTING THE ENDS OF BRUSH BRISTLES
Sylvain Dreyfus, Lausanne, Switzerland
Application September 15, 1950, Serial No. 185,003
Claims priority, application Switzerland
February 27, 1950
6 Claims. (Cl. 51—145)



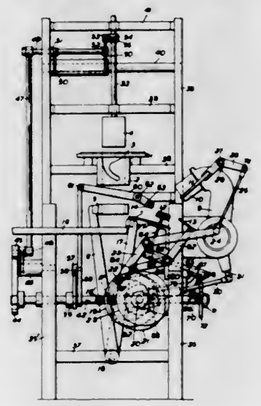
4. A machine for blunting the ends of brush bristles comprising, in combination, a frame, a frame arm, an aperture in said frame, a support having an aperture in axial alignment with the aperture in said frame arm, a conical toothed crown wheel having a tubular nave secured in said support aperture, a platform member having a pivot shaft axially adjustable in said nave, a pulley rotatably mounted on said tubular nave between said support and said crown wheel, a stirrup secured to said pulley and having its branches extending outwardly and upwardly around said crown wheel, a headstock above said platform, a shaft parallel to said platform extending through said platform and journalled in said stirrup, a toothed conical wheel secured to said shaft and in meshing engagement with said crown wheel, a second toothed conical wheel secured to said shaft, two rotatable drums journalled in said frame, a belt having an abrasive surface carried by said rotatable drums, a conical toothed wheel secured to one of said drums and in meshing engagement with the second-named conical wheel on said shaft, a support for brushes having a stem slidably received in the aperture in said frame arm and having a cylindrical portion formed with an oblique groove, a vertical arm extending upwardly from said headstock having an extension extending toward the stem, and groove follower means secured by said extension engaged in the oblique groove of said stem.

2,669,076
APPARATUS FOR PACKAGING ARTICLES
James William Ormsby, New York, N. Y.
Application August 31, 1950, Serial No. 182,471
10 Claims. (Cl. 53—91)

1. A packaging machine for placing three cans in an open-ended carton in side-by-side single line relationship, the combination, comprising, a main shaft adapted to be power driven, a carton feed member fixed on said shaft for rotation therewith having means on its periphery to receive a folded carton, a carton opening and first assembly station disposed adjacent the periphery of said carton feed member, means for delivering a folded carton to the carton receiving means of said carton feed member, means on the periphery of said carton feed member adapted to co-act with means in the carton opening and first assembly station to open the carton and release it from the periphery of the carton feed member as said member is rotated, a plurality of can feed members fixedly mounted on said main shaft for rotation therewith, can receiving means provided on the peripheries of said can feeding members, can receiving stations disposed adjacent the peripheries of said several can feeding members, trackways connecting said can receiving stations with the carton opening and first assembly station, a second assembly station disposed beyond said first assembly station, a trackway connecting at least one of said can receiving stations with said second assembly station, cam surfaces on said can feeding members for moving cans along said trackways from said can receiving stations to said first and second assembly stations, cam surfaces on the periphery of the carton feed member for moving the opened carton which has been partially filled with cans out of the carton opening and first assembly station and into said second assembly station.



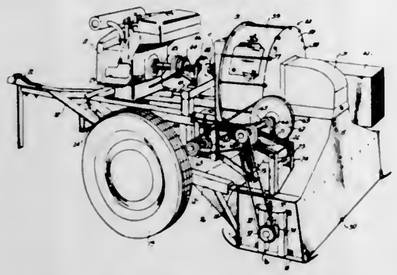
2,669,077
APPARATUS FOR PACKAGING PLASTIC MATERIALS
Johannes Benz, Dusseldorf, Germany
Application August 24, 1951, Serial No. 243,475
Claims priority, application Germany
August 25, 1950
8 Claims. (Cl. 53—95)



1. A machine for packaging plastic material and having at least two operating stations, such machine comprising a mould open at its upper and lower ends for receiving, at a first station, a pre-folded wrapper; first means for oscillating

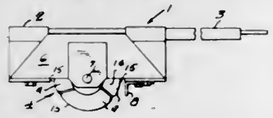
said mould between said first station and a charging station disposed sidewardly from the said first station where the said wrapper receives a portion of the material to be packaged and for returning said mould to the said first station; second means at said first station for inserting a wrapper in said mould when at the said first station, and for simultaneously acting on a filled package carried by the mould from the charging station, and discharging the filled package from the mould.

2,669,078
LEAF GATHERING AND DISPOSAL MACHINE
Horace G. Gregory, Sioux Falls, S. Dak.
Application November 14, 1949, Serial No. 127,124
1 Claim. (Cl. 55—118)



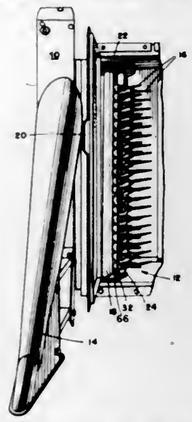
A machine for picking up and grinding debris such as leaves or the like comprising in combination a horizontally disposed axle, a pair of wheels mounted in a vertical plane one on each opposite end of said axle to be rotatable relative thereto, a trailer body mounted on top of said axle to be supported thereby, a pull frame pivotally attached to the front of said trailer body to extend therefrom in a substantially horizontal plane, a debris intake unit rigidly mounted on top of said trailer body to depend therefrom and extend substantially to a horizontal plane defined by the lower surfaces of said pair of wheels, a debris suction and grinder and blower combined unit mounted on top of said trailer body in a single housing to be attached to and in suction communication with said debris intake unit, a debris discharge member attached to said combined unit on a side functionally opposite from that of said intake unit to be in blower communication with said combined unit and having a debris outlet directed rearwardly with respect to said trailer body, a prime mover mounted on said trailer body to be operably attached to said combined unit to empower the same.

2,669,079
ROTATING STALK CUTTING ROLLER
Jacobus M. Landry, Summerland, British Columbia, Canada
Application November 17, 1949, Serial No. 127,922
6 Claims. (Cl. 55—118)



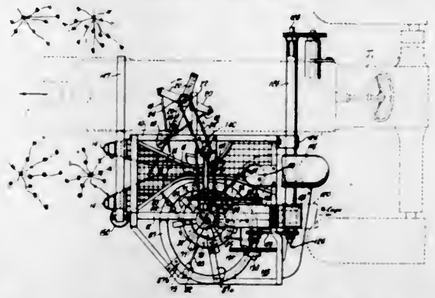
1. In an agricultural implement of the character described, a frame naving an opening, a roller having a shaft rotatably mounted on said frame in said opening, means to connect said frame to a power-driven device adapted to move said frame over said surface while being supported on said roller, at least three blades along and around said shaft arranged generally tangentially thereto, the inner edge of each of said blades being secured to the face of the adjacent blade along a line intermediate the edges of said latter blade, the outer edge of each of said blades and the planes of said blades being generally helicoidal, each of said blades being secured at its longitudinal ends to said shaft and extending helically through a proportional part of the circumference of said roller.

2,669,080
COTTON PICKER DRUM ASSEMBLY
Harold N. Swim, Jr., Des Moines, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application June 9, 1951, Serial No. 230,821
6 Claims. (Cl. 56—44)



1. In an assembly made up of vertically spaced upper and lower horizontal, coaxial supports including between them a plurality of uniformly circumferentially spaced columns arranged in the supports for individual angular movement about their axes relative to the supports, and wherein the lower support has an upper radial face and a plurality of uniformly circumferentially spaced recesses opening upwardly and respectively coaxial with the columns, the improvement residing in means journaling the lower ends of the columns on the lower support, comprising: a plurality of similar mounting elements equal in number to the number of columns; each element having a horizontal flange resting on the upper face of the lower support, a depending stud received in the respective recess of the lower support, and an upstanding bearing stud coaxial with the depending stud and rotatably receiving the lower end of the respective column; each flange being of such dimension measured angularly of the lower support as to present an edge portion closely spaced angularly from a similar edge portion of a next adjacent flange; said edge portions on each pair of neighboring flanges being straight and parallel as viewed from above, each edge portion being beveled so that neighboring edge portions diverge upwardly; a plurality of retaining members equal in number to one-half the number of mounting elements, each retaining member having opposite straight parallel sides as viewed from above and said sides converging downwardly and received in wedge-like fashion between the edge portions of a pair of neighboring mounting elements; and a plurality of securing means, equal in number to the number of retaining members and individually securing the retaining members to the lower support.

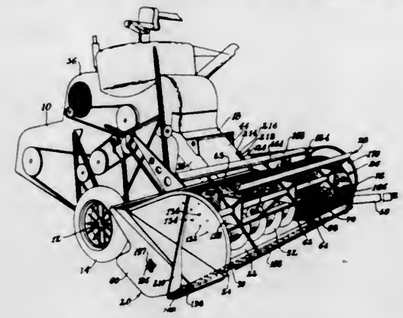
2,669,081
COTTON-PICKING MACHINE
Albert W. Weems and Sterling J. Weems Meridian, Miss.
Application July 12, 1949, Serial No. 104,338
17 Claims. (Cl. 56—47)



1. A cotton picking machine, comprising a picking chamber, a rotatable vertical shaft, upper and lower supporting plates carried by said vertical shaft, a plurality of vertically positioned spindle columns pivotally mounted on vertical axes between said plates, rotatably mounted spindles carried by said spindle columns, gears carried by the spindle column for rotating said spindles, means for rotating said shaft and the plates and spindle columns carried thereby through a 360° unidirectional path, gears mounted above said upper plate and connected with said spindle columns for oscillating said spindle columns back and forth about their respective vertical axes, and a fixed cam track, carried by the machine and operatively connected with said gears that oscillate the spindle columns, for effecting said oscillatory movement of the spindle columns, said cam track causing the spindles in each column of spindles to enter the picking chamber at a backward inclination with respect to the travel of the machine and to change this angle gradually to a forward inclination whereby adjacent columns of spindles exert a spreading action on the cotton plants as they progress through the picking chamber.

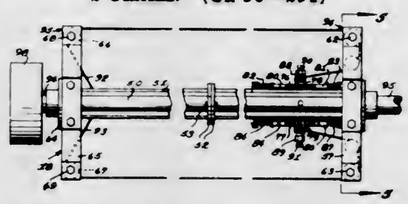
2,669,082
GATHERING HEAD FOR COMBINES
Ralph L. Anderson, East Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application December 7, 1950, Serial No. 199,683
6 Claims. (Cl. 56—185)

1. In a harvester having a longitudinal body, harvesting mechanism comprising: a platform floor disposed ahead of and across the front end of the body; a conveyor housing extending rearwardly from the platform to the body and having an upright, longitudinal side wall adjoining the floor; said side wall having an upwardly and rearwardly inclined top edge; an upright, longitudinal end wall fixed to the floor and having a lower portion in the plane of said side wall and a laterally outwardly offset upper portion outside said plane, said upper and lower portions being joined along an offset portion forming a forwardly and downwardly extending continuation of said side wall top edge; a harvester reel above the floor and closely inwardly of said end wall and carried by said end wall for rotation about a transverse horizontal axis above the offset between said upper and lower end wall portions; a relatively large sheave on the reel closely proximate to and inwardly of said upper portion of the end wall and above and vertically alined with said offset; a double sheave rotatably carried by the conveyor housing at a portion of said side wall top edge rearwardly of said end wall and including first and second parallel grooves in upright, longitudinal planes respectively inwardly and outwardly of said offset portion; a third sheave below the double sheave



and located outside said side wall and rearwardly of said offset portion of the end wall and outside said end wall so that said offset portion inclines rearwardly over said single sheave and separates the reel sheave from said third sheave; and an endless belt trained about the reel and third sheaves and looped over the double sheave so that the belt between the double sheave and the reel sheave is inside the end wall and above and ahead of said offset portion and the belt between said double sheave and the third sheave is outside the end wall and below and behind said offset portion.

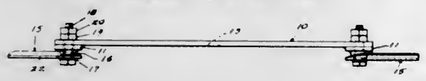
2,669,083
CUTTER FOR FORAGE HARVESTERS
James L. Hinson, Winfield, Kans., assignor of twenty-five per cent to Frank R. Webb, Arkansas City, Kans.
Application October 23, 1951, Serial No. 252,639
2 Claims. (Cl. 56—294)



1. A cutter element for a forage harvester comprising a tubular central member having bearing means at its ends, strand supporting structures mounted on said central member one at each end thereof and extending perpendicularly to said central member substantially equal distances to opposite sides of the latter, grooved rollers carried by said strand supporting structures one at each end of each structure, ratchet devices mounted on said central member between said strand supporting structures, and flexible strands secured one at each end to said central member and carried over said grooved rollers and connected at their other ends to said ratchet devices, said strands being disposed at respectively opposite sides of said central member in spaced and sub-

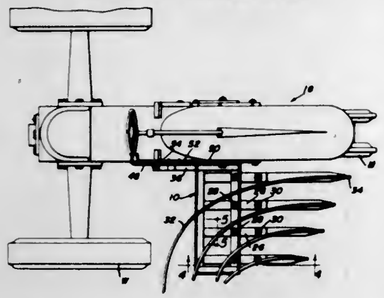
stantially parallel relationship thereto and substantially in a plane including the longitudinal center line of said central member.

2,669,084
ROTARY MOWER BLADE
Madden M. Warren, Atlanta, Ga., assignor of one-half to Guy M. Kirby, College Park, Ga.
Application June 18, 1952, Serial No. 294,130
1 Claim. (Cl. 56—295)



A cutting blade construction for mounting on a vertical drive shaft of a rotary lawnmower, comprising an elongated carrier, bushing forming means at each end of said carrier, a cutting blade at each end of said carrier, means extending through said blades and bushings pivotally mounting said blades on said carrier, each blade being formed of a rectangular plate having a keen leading edge and an arcuately upturned parallel trailing edge, said upturned edge tapering downwardly to the level of the plate at the inner edge thereof.

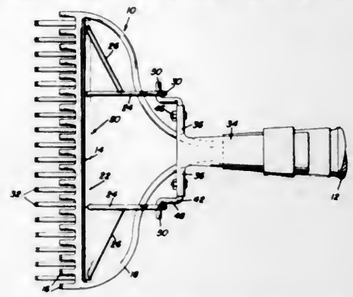
2,669,085
PLOW-TYPE WINDROW TURNER
Walter I. Miller, Farmdale, Ohio, assignor of one-fourth to Forest H. Miller and one-fourth to Reuben L. Miller, both of Farmdale, Ohio
Application January 22, 1951, Serial No. 207,117
8 Claims. (Cl. 56—370)



1. In a tractor including a vertically swingable and adjustable lift lever, a plow-type windrow turner comprising an elongated frame pivoted at one end to the tractor and having its other end projecting outwardly from one side of the tractor, a plurality of spaced parallel beams carried by the frame and disposed longitudinally of and at one side of the tractor, said beams being individually pivoted to the frame for vertical swinging movement, means carried by the beams for guiding plants lifted by the beams to one side of the tractor and away from the rear wheels of the tractor, means connecting the frame to the lift lever for selectively raising and lowering the forward ends of the beams as a unit, and a spring for each beam urging the forward ends of the beams against the ground.

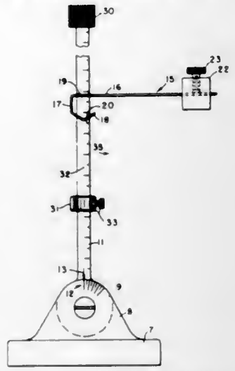
2,669,086
SELF-CLEANING RAKE
Peter J. Kairis, Minocqua, Wis.
Application September 12, 1950, Serial No. 184,472
1 Claim. (Cl. 56—400.08)

A self-cleaning rake having a rake head with rake teeth thereon, a handle, and rod-like members connecting the rake head to the handle, a stripper head having stripper teeth thereon interdigitated with the rake teeth crosswise thereof, and pivoted means swingably mounting said stripper head on said handle for free gravitational stripping movement relative to said teeth, and including arms coacting with said



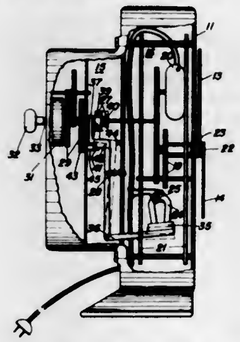
members to limit gravitational swinging of said stripper head, a bracket fixed to said handle, cranks on which said arms are pivoted, and clamps on said bracket in which said cranks are rotatable into different set positions to adjust said arms for engagement with said members so as to vary the amplitude of gravitational swinging movement of said stripper head.

2,669,087
GRAVITY OPERATED TIMING DEVICE
Elsie Bredimus, Oakland, N. J., and Warren Dunham Foster, Eustis, Fla.; said Foster assignor to Foster and Foster, a partnership
Application January 19, 1949, Serial No. 71,702
8 Claims. (Cl. 58—1)



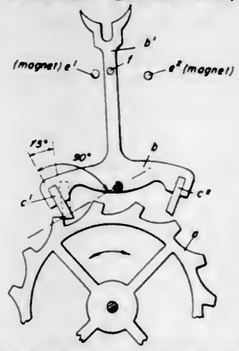
1. In a device of the character described, a generally vertical support, a cantilever spring of which one end is free and the other end embodies an escapement, said escapement consisting of formations spaced and separate from each other for mounting said spring upon said support for bodily descent therealong in regular intermittent movements and with its free end extending outwardly from said support and free of contact therewith, two of said formations being engageable with one side of said support and another formation being engageable with a side of said support opposite that engaged by said two formations, the distance between said two formations upon the same side of said support being at least one half of the width of that portion of said support disposed between said two formations and said other mentioned formation and said support and said escapement during all phases of each cycle of movement and rest being entirely free from engagement with each other except at the points of contact between said formations and said support.

2,669,088
COMBINED ELECTRICALLY-MECHANICALLY OPERATED CLOCK
Clyde R. Boyd, Baltimore, Md.
Application February 14, 1949, Serial No. 76,231
2 Claims. (Cl. 58—26)



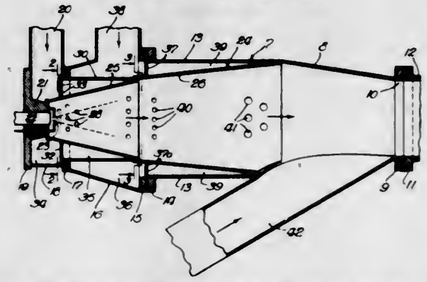
1. In a clock, time indicating means, a synchronous motor, a train of gears between said time indicating means and said motor, a spring motor, driving means between said spring motor and the aforesaid train of gears comprising a second train of gears driven by the spring motor, said last-mentioned train of gears including an escapement wheel and a shaft extending therethrough, and a clutch between said last-named train of gears and said first train of gears, means for operating said clutch including a pivoted lever, a magnet in parallel with the electric motor circuit to swing said lever about its pivot, and locking means for said escapement shaft carried by said lever to immobilize said shaft when the clutch disconnects said driving means from said first train of gears.

2,669,089
ANCHOR ESCAPEMENT
Reinhard Straumann, Waldenburg, Switzerland
Application March 10, 1950, Serial No. 148,878
Claims priority, application Switzerland April 5, 1949
2 Claims. (Cl. 58—121)



1. In a detached lever escapement for clockworks, a lever, banking stops on opposite sides of said lever, said lever being swingable between said banking stops, a scape wheel, teeth on said scape wheel, magnetic means associated with said lever and said banking stops to hold said lever in banked position by magnetic traction, pallets on said lever, said pallets being arranged to eliminate a positive draw angle with respect to a perpendicular to the lever radius through the locking point between said pallets and said teeth, said magnetic means comprising magnetic banking pins of high coercivity and a soft iron armature mounted on said lever, said magnetic banking pins and said soft iron armature coacting to hold said lever in banked position.

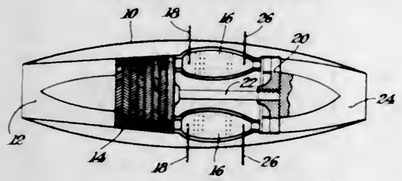
2,669,090
COMBUSTION CHAMBER
Robert J. Jackson, Brooklyn, N. Y., assignor to Lanova Corporation, Long Island City, N. Y., a corporation of Delaware
Application January 13, 1951, Serial No. 205,893
1 Claim. (Cl. 60—13)



In a combustion chamber for use in driving a gas turbine, a substantially cylindrical housing having a discharge end for connection to a gas turbine and a fuel supply end, a substantially conical perforated flame tube within said housing extending lengthwise thereof having a fuel inlet end adjacent said fuel supply end and an open outlet end spaced from said discharge end, said tube comprising an inner section defining a primary combustion space and an outer section defining a secondary combustion space and spaced for substantially its full length from the surrounding wall of said housing defining therewith an unobstructed annular space about said tube decreasing uniformly in cross section toward the outlet end of said tube, the outlet end of said outer section fitting the interior of said housing providing therewith a closure about said tube, means for supplying fuel to said primary combustion space, a substantially cylindrical casing extending about said inner section of said tube with its outer end in interfitting relation to the outer end of said inner section and the inner end of said outer section providing therewith closures thereabout, said casing defining with said inner section an unobstructed annular space about the latter uniformly decreasing in cross section toward said secondary combustion space, said casing being spaced from the surrounding wall of said housing and having its inner end spaced from said fuel supply end of said housing and closed to the space between said housing and casing, a perforated air flow straightener at the inner end of said casing fitting about said inner section of said tube, a second perforated air flow straightener fitting between said housing and said second section of said tube adjacent the inner end thereof, air supply conduits respectively opening into said housing between said fuel supply end thereof and said first flow straightener and between the inner end of said casing and said

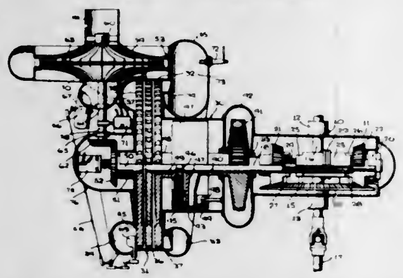
second flow straightener, and a conduit opening into said housing between the discharge end thereof and the outlet end of said tube for supplying to said housing exhaust gases from an internal combustion engine.

2,669,091
GAS TURBINE ROTOR COOLING
August H. Schutte, Hastings on Hudson, N. Y.
Application January 13, 1951, Serial No. 205,866
3 Claims. (Cl. 60—39.05)



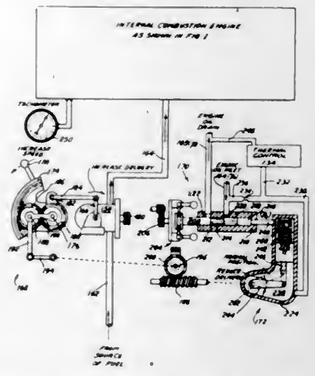
1. The method of increasing the efficiency and output horsepower of a gas turbine which comprises introducing the motive gas to the turbine at a temperature substantially in excess of a safe operating temperature for the stator and rotor blades of said turbine and simultaneously spraying water into the gas stream adjacent the turbine inlet to form a water film on the rotor and stator blades, said water being in a finely dispersed condition having an approximate size of 60 to 100 microns when it leaves the spray nozzle and sprayed in amounts insufficient to materially lower the gas temperature in the time the gas passes to the blades, and in amounts great enough to keep the outside of the blades wet, whereby the sensible temperature of the blades is at least several hundred degrees Fahrenheit lower than the entering gas temperature.

2,669,092
GAS TURBINE POWER PLANT WITH EXHAUST GAS RECYCLING
Nils W. Hammaren, Mineola, N. Y.
Application February 3, 1953, Serial No. 334,780
4 Claims. (Cl. 60—39.16)



1. A vehicle drive assembly comprising a differential mechanism including a housing and a drive shaft extending out of said housing, a transmission housing mounted on said differential housing in surrounding relationship to said drive shaft, a turbine housing mounted on said transmission housing in spaced relationship to said differential housing, transmission mechanism in said transmission housing drivingly connected to said drive shaft, a supercharger shaft disposed at an angle to said drive shaft, turbine rotors in said turbine housing drivingly connected respectively to said drive shaft, said transmission mechanism and said supercharger shaft, said turbine housing including an inlet scroll disposed at one side and an exhaust scroll disposed at the opposite side of said turbine rotors, a supercharger impeller on said supercharger shaft, a supercharger housing surrounding said impeller and having an intake formation and an outlet scroll connected to the inlet scroll of said turbine housing, and means connecting the exhaust scroll of said turbine housing to the inlet formation of said supercharger housing to feed a portion of the exhaust gases from said turbine back to the inlet of said turbine through said supercharger.

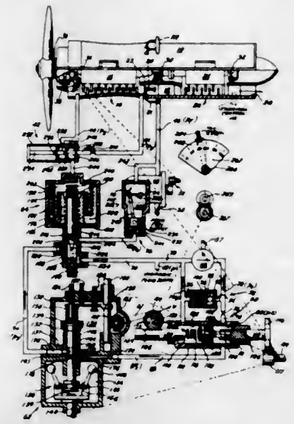
2,669,093
CONTROL APPARATUS FOR INTERNAL-COMBUSTION ENGINES
Leighton Lee II, Rocky Hill, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application January 10, 1947, Serial No. 721,269
14 Claims. (Cl. 60—39.28)



12. Control apparatus for an internal combustion engine having a pump for delivering fuel thereto, said pump having means for varying its delivery, comprising: a manually operated control lever, adapted to be moved to a selected position corresponding to a desired engine speed, a control arm connected to said delivery-varying means and adjustable means connected between said lever and said arm, said arm being variably responsive to the movement of said lever; and means responsive to the actual speed of the engine and to the movement of said arm for adjusting said adjustable means, so as to modify the movement of said arm in response to the movement of said lever, in proportion to any difference between actual engine speed and the desired engine speed corresponding to the position of said lever, whereby the fuel delivery of said pump is so controlled as to cause the actual speed of the engine to correspond to the selected desired speed.

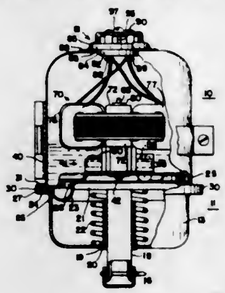
2,669,094
FUEL CONTROL APPARATUS FOR JET ENGINES
Leighton Lee II, Rocky Hill, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application February 1, 1947, Serial No. 725,842
79 Claims. (Cl. 60—39.28)

36. Control apparatus for a pump, comprising: a source of hydraulic fluid at substantially constant superatmospheric pressure, a conduit for the flow of fluid from said source, valve means for controlling the pressure in a portion of said conduit, first control means responsive to said controlled pressure for controlling the delivery of said pump directly in accordance with said controlled pressure, and second control means responsive to atmospheric pressure for maintaining said controlled pressure above a predetermined limiting value regardless of said valve means.



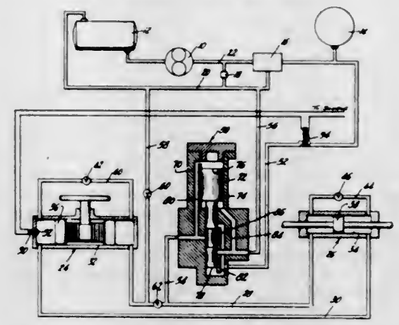
62. Control apparatus for an internal combustion engine, comprising means for controlling the supply of fuel to said engine, motor means, driven by a fluid pressure from a source separate from said fuel supply, for operating said fuel supply control means, an acceleration control for limiting the speed of said motor means to control acceleration of said engine, under all engine operating conditions, and means responsive to the direction of operation of said motor means to render said acceleration control ineffective when said motor means moves in a fuel supply decreasing direction.

2,669,095
PUMP AND MOTOR HYDRAULIC ACTUATOR
Carl J. Bishofberger, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 16, 1949, Serial No. 127,749
10 Claims. (Cl. 60—52)



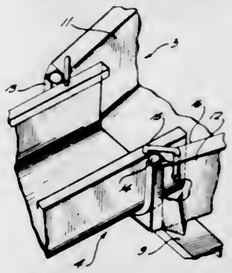
4. In a device of the class described, a first sealed chamber including an enclosing casing member and an end wall, a motorized pump within said sealed chamber and mounted on said end wall, a second sealed chamber formed by a flexible diaphragm and said end wall, a second casing member enclosing said second sealed chamber, one of said casing members including a shoulder portion which is bent over an edge of said end wall, an edge of said diaphragm and a shoulder portion on said other casing member to maintain said device in assembled relationship, and a beaded flange portion on the edge of said diaphragm abutting the peripheral side and end surfaces of the edge of said end wall and abutting both of said casing members to provide a seal for both said first and said second chambers.

2,669,096
TEMPERATURE COMPENSATED FORCE AND MOTION TRANSMITTING SYSTEM
Stanley I. MacDuff, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 1, 1950, Serial No. 147,025
10 Claims. (Cl. 60—54.5)



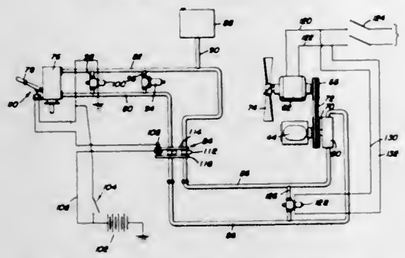
1. In combination, a fluid pressure source, a double acting fluid force and motion transmitting system including a pair of conduits connecting the transmitter and receiver units, and means interposed between said source and one of said conduits for maintaining the fluid pressure in said system at a fixed ratio with respect to the pressure source.

2,669,097
PORTABLE MUD DITCH
Abbott B. Harris, Downey, Calif.
Application March 29, 1952, Serial No. 279,487
7 Claims. (Cl. 61—15)



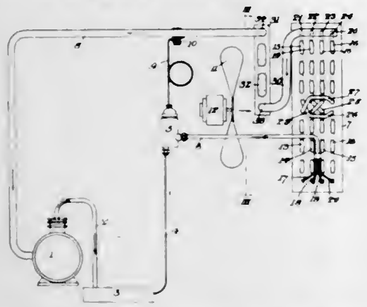
1. A portable mud ditch comprising a trough, said trough being open on the top thereof, an angular fitting element, said fitting element being open on the top, one end of said trough extending into the fitting element and packing means in the fitting element engaging the sides and bottom of the trough to prevent leakage between the trough and the fitting element, the sides of said fitting element adjacent the trough being tapered outwardly away from said trough to permit horizontal and vertical movement of the trough relative to said fitting element.

2,669,098
REFRIGERATING SYSTEM FOR TRUCKS
Charles J. Buell, Fort Smith, Ark.
Application January 3, 1950, Serial No. 136,618
12 Claims. (Cl. 62—117.1)



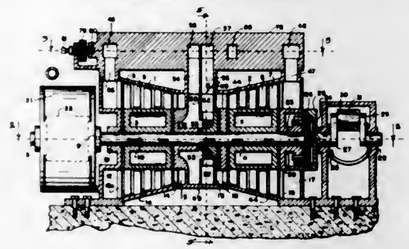
1. A vehicular mounted refrigeration system comprising, a tractor having a prime mover, a refrigerated trailer detachably coupled to the tractor, trailer refrigerating means on the trailer including a compressor, a hydraulic motor on the trailer operatively connected to the compressor, a hydraulic pump on the tractor, means drivingly connecting the prime mover to the hydraulic pump, hydraulic pressure and return lines operatively connecting the pump and the motor, each of said lines including a first section carried by the tractor and a second section carried by the trailer, a separable coupling assembly between said first and second sections, said coupling assembly being operable to couple or uncouple the first and second sections of said lines, said coupling assembly being of the type which closes the lines when uncoupled, a bypass line connecting the second sections of the lines, a valve operatively disposed in the bypass line, an auxiliary motor carried by the trailer for driving the compressor, and an interlock responsive to actuation of the auxiliary motor for opening the valve in the bypass line.

2,669,099
EVAPORATOR CONSTRUCTION FOR HEAT EXCHANGE SYSTEMS
Hyman Malkoff, Trenton, N. J., assignor to Kramer Trenton Company, Trenton, N. J., a corporation of New Jersey
Application December 29, 1950, Serial No. 203,400
6 Claims. (Cl. 62—126)



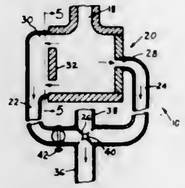
1. An evaporator assembly designed and adapted to cool a single air stream in heat exchange systems comprising, a main evaporator having a plurality of conduits provided with refrigerant inlets and outlets, an auxiliary after evaporator having an inlet connected with the outlets of the main evaporator conduits, and means for generating an air stream, the parts being so constructed and arranged that the after evaporator is adapted to augment the cooling effect of the main evaporator on the air stream and itself to evaporate the liquid portion of refrigerant supplied to the main evaporator which is not evaporated during its passage through said main evaporator, the said auxiliary after evaporator including a conduit of relatively large cross sectional size as compared with the conduits of the main evaporator to adapt the auxiliary after evaporator to receive the combined output of all conduits of the main evaporator, and the means for generating an air stream being arranged to force the air stream directly through the auxiliary after evaporator and the main evaporator.

2,669,100
APPARATUS FOR HEATING AND COOLING AIR
Adolphe C. Peterson, Minneapolis, Minn.
Application April 19, 1951, Serial No. 221,799
9 Claims. (Cl. 62—136)



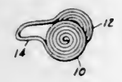
1. In a means for changing the temperature of the interior of a building or other enclosed space; a primary air course including compressing space having a compressing means associated therewith, a compressed air course having induction from said compressing space and within confining walls, a primary air discharge conduit discharging from said compressed air course and an air expansion operated motor means operating in the primary air discharge conduit; a secondary air course including an air blowing channel and air blower means operating therein, a secondary air intake to said air blowing channel, and a secondary air discharge from said air blowing channel; conductive means including atmospheric air inspirating and atmospheric air aspirating means, another conductive means including internal intake means in said enclosed space and internal discharge means in said enclosed space; valve means for alternatively including one of said conductive means with said primary means to procure passage of atmospheric external air through said primary air course and the other of said conductive means with said secondary air course to procure passage of internal air from said enclosed space through said secondary air course in one condition of operation, and to procure in the alternative condition inclusion of the second one of said conductive means with said primary means to procure passage of internal air from said enclosed space through said primary air course, and inclusion of the first one of said conductive means with said secondary air course to procure passage of atmospheric external air through said primary air course; a heat carrier fluid circuit including a heat absorption conduit within heat conductive walls exposed to air passing in said compressed air course, a heat transfer conduit within heat conductive walls exposed to air in said secondary air course, a carrier fluid compressor receiving carrier fluid from said heat absorption conduit and discharging carrier fluid under compression to said heat transfer conduit, an expansion valve conduit means for compression retention and conducting carrier fluid from said heat transfer conduit to said heat absorption conduit; and motor means for driving said first named compressing means and said second named carried fluid compressor, and a driving connection between the air expansion operated motor means and the first named compressing means.

2,669,101
DEVICE FOR HEATING AND COOLING VEHICLES
James T. Shields, Inwood, N. Y.
Application December 31, 1952, Serial No. 329,156
5 Claims. (Cl. 62—136)
(Granted under Title 35, U. S. Code (1952), sec. 266)



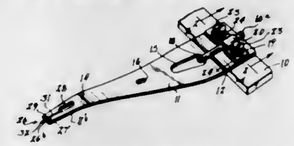
1. In a temperature control device for a vehicle, a cylindrical chamber, an axial outlet in one side of said chamber, a second outlet in the opposite side of said chamber and coaxial with said first outlet, said second named outlet being of greater diameter than the first, baffle means concentric with said second outlet, means on said chamber to supply a stream of air thereto, conduits secured to said outlets, distribution pipe means connected to said conduits, valve means in said conduits pivotally mounted to selectively control flow of air from the conduits to the distribution pipe, and throttling means in one of said conduits to vary the flow of air therethrough.

2,669,102
EAR ORNAMENT
Ruth Mary Ronstadt, Tucson, Ariz.
Application February 6, 1953, Serial No. 335,414
4 Claims. (Cl. 63—14)



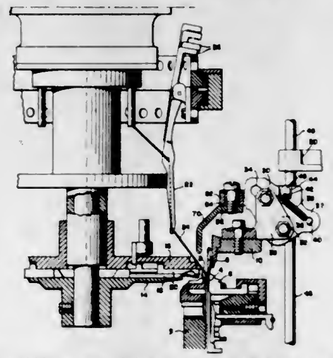
1. An ear ornament comprising a pair of flat pads each formed of a single length of wire wound into a series of closely spaced convolutions, said pads being connected by a dead soft metal wire, said connecting wire being secured to the outermost convolution of each pad, said convolutions being individually flexible in a direction normal to the plane of said pads whereby to conform to the contour of the wearer's ear lobe when said connecting wire is bent into U shape and the pads are pressed against the inner and outer faces of the ear lobe, said wire and pads being dimensioned such that the contacting surface area between each pad and the respective surfaces of the ear lobe is at least twenty times the cross sectional area of said connecting wire and said convolutions forming a corrugated ear engaging surface.

2,669,103
YARN CARRIER AND TUBE FOR KNITTING MACHINES
Frederick Scarborough, Sr., Northampton, Mass.
Application March 1, 1952, Serial No. 274,345
3 Claims. (Cl. 66—126)



1. A tip for mounting on the front end portion of a yarn carrier mounted on a knitting machine comprising, an elongated arm, said arm having a rectangular rear portion and a tapered front end portion; said front end portion having a bore therein, a notch in the forward edge of said tapered front end, and a guide tube extended into said bore and carrying a stop block, said block engaging in said notch to prevent further rearward movement of said guide tube and to prevent rotation thereof.

2,669,104
KNITTING MACHINE
Alexander Belford, Laconia, N. H., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application June 19, 1951, Serial No. 232,315
13 Claims. (Cl. 66—135)

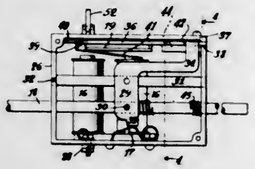


1. A knitting machine comprising a rotary cylinder, a rotary dial, needles carried by said cylinder and said dial for the formation of a rib fabric, a latch ring, a wrap yarn carrier for the presentation of a wrap yarn to cylinder needles, a wrap horn extending in an arc adjacent to the cylinder needles, and means mounting said horn for tilting movements of a portion thereof relatively to the latch ring in a generally axial direction.

2,669,105
STOP MOTION FOR KNITTING MACHINES
Jacob Wachsman and David Wachsman, Brooklyn, N. Y.; said Jacob Wachsman assignor to David Wachsman
Application February 17, 1953, Serial No. 337,346
1 Claim. (Cl. 66—163)

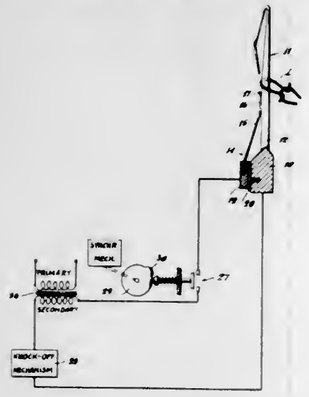
In a stop motion for knitting machines which include a stop handle and an electric circuit with a normally open switch controlled by a travelling thread, said stop motion comprising a box, a plunger slidably supported therein, a spring on said plunger for moving the same to actuate the

said handle to stop the knitting machine, means for guiding said plunger in its movements within the box comprising a fixed guide shaft therein in parallel relation to said plunger, a block member secured to the plunger and sliding upon the said guide shaft, a pivoted stop lever in said box, means on said stop lever engaging said block member to hold said plunger immovable against the action of the said plunger spring, a projecting armature stop engaging said stop lever to hold the



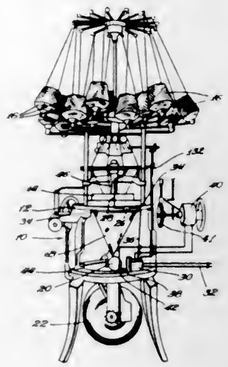
same in operative engagement with said plunger, a stop lever spring in said box engaging said stop lever to hold the same in operative contact with said block member during the movements of said plunger, an electromagnet in said circuit for operating the said armature stop to release said stop lever when said circuit is no longer under control of the travelling thread, said guide shaft and said plunger being interchangeably supported in said box and in relation to the said block member.

2,669,106
KNITTING MACHINE STOP MECHANISM
David Pernick, Brooklyn, N. Y.
Application July 12, 1952, Serial No. 298,509
12 Claims. (Cl. 66—166)



1. In stop mechanism for knitting machines of the class described, the combination of an electrically operated device adapted to effect stoppage of the machine, an electrically conductive needle bar having a conductive needle thereon in electrical contact therewith, a conductive bar, an insulator interposed between said needle bar and said conductive bar, a switch element having a base portion mounted on said conductive bar and having a yieldable portion in electrical contact with the shank of said needle at a zone where the loop of a stitch is disposed at a predetermined moment in the knitting cycle, whereby the presence of a loop at the zone will break the contact between said portion and the needle shank, a source of electrical energy for said device, means for establishing a circuit from said source through said switch element, said needle bar, and said device including a normally open switch, and means for closing said switch only at said moment in the knitting cycle when a loop of the stitch should break the contact between said yieldable portion and the needle shank, whereby in the absence of a loop at said moment said device is energized to effect stoppage of the machine.

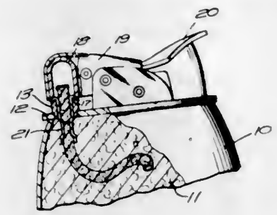
2,669,107
FLAW DETECTOR FOR KNITTING MACHINES
John W. Phillips, Kenosha, Wis., and John A. Roush, Evanston, Ill., assignors, by direct and mesne assignments, to Cooper's, Incorporated, Kenosha, Wis., a corporation of Wisconsin
Application September 16, 1947, Serial No. 774,384
10 Claims. (Cl. 66—166)



1. A circular fabric knitting machine comprising a frame, a cylinder mounted thereon, knitting equipment mounted on the periphery of the cylinder, a shaft disposed on the axis of the cylinder, said cylinder and said shaft being mounted for relative rotation therebetween, a flaw detector wheel mounted on said shaft, pressure rolls for drawing knitted fabric from the knitting cylinder over the flaw detector wheel as knitted, an electrical conductive finger mounted on the periphery of the expander ring, an electrically conductive annulus mounted around the flaw detector wheel, the cross-sectional configuration of the inner surface of said annulus and of the peripheral edge of said expander ring being such that a portion of said peripheral edge extends into an interfitting relation with said inner surface and a portion of said inner surface likewise extends into interfitting relation with peripheral edge, conductors to the finger and the annulus forming a circuit when the finger engages the annulus, and means for stopping the machine disposed in said circuit adapted to be activated when said finger engages said annulus.

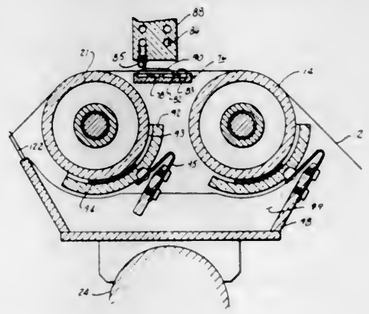
2,669,108
WICK FOR LIGHTERS
Alfred F. Reilly, Taunton, Mass., assignor to Evans Case Co., a corporation of Massachusetts
Application December 11, 1951, Serial No. 261,050
4 Claims. (Cl. 67—70)

1. A wick for a lighter or the like comprising an elongated element having capillary properties for the conveying of fluid fuel therethrough, a coating of heat resistant refracting material over the end of the element, said coating being impervious to the passage of fuel out of the end of the element and bonded to the end of the



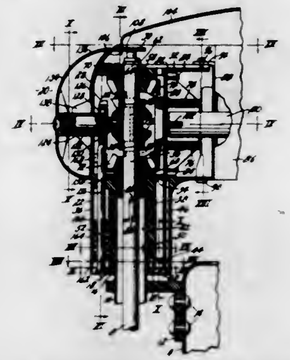
element causing passage of the fuel out of the sides of the element adjacent the coated end.

2,669,109
MEANS FOR APPLYING TREATING LIQUID TO A FILAMENT AS IT MOVES OVER A THREAD STORING AND ADVANCING REEL
Harry A. Kuljian, Merion, Pa., assignor to The Kuljian Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application September 29, 1949, Serial No. 118,655
2 Claims. (Cl. 68—200)



1. The combination with a thread storing and advancing reel having at least two elongated, spaced, substantially parallel rolls adapted to receive a freshly coagulated filament in the form of a plurality of convolutions circumscribing said rolls and movable, upon rotation of said rolls, from the feed end to the delivery end of said rolls, of means for applying treating to said filament as said convolutions move circumferentially and axially of said rolls, said means comprising a body member having a first channel formed in the upper face thereof and disposed substantially normal to the axes of said rolls, and a second channel communicating at one end thereof with said first channel and disposed substantially parallel to the axes of said rolls, said second channel being relatively narrow so that a liquid having a viscosity substantially equal to the viscosity of water and flowing through said second channel will form a dome which extends above the surface of said body member, said body member being mounted between said rolls with its upper surface just below a line tangent to said rolls so that, as said convolutions move over said rolls, they will pass through said dome without touching said body member.

2,669,110
WRINGER HEAD FOR WASHING MACHINES
William B. Beuscher, Kansas City, Mo., assignor, by mesne assignments, to Appliance Engineering Co., Kansas City, Mo., a corporation of Missouri
Application January 16, 1950, Serial No. 138,860
1 Claim. (Cl. 68—255)

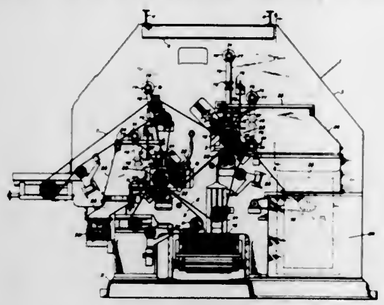


For use in connection with a wringer assembly having horizontal rolls and adapted to be operated by a rotatably driven vertical drive shaft, a fixed tubular housing coaxial with said drive shaft, a planar index plate secured concentrically to said housing in spaced relation from the upper end thereof, said index plate being notched at spaced intervals around the edge thereof, and a wringer head adapted to carry said wringer assembly, said wringer head comprising a body member having a socket formed in the lower portion thereof which fits for rotary and vertical movement on the upper end portion of said housing, said socket having a recess in the vertical wall thereof, means secured to the housing and extending within the recess for limiting the vertical movement of said body member on said housing, an index pin fixed in said body member and adapted to engage successively the notches in said index plate as said body member is rotated, said index pin being beveled whereby said body member will be elevated to the upper limit of its vertical movement when said index pin is intermediate said notches, a driving connection carried in said body member between said drive shaft and said wringer assembly, a clutch adapted to selectively engage, disengage or reverse said driving connection, a shaft carried rotatably by said body member and adapted when turned to operate said clutch, a cam fixed to said clutch shaft, and a safety pin carried for vertical movement by said body member, resilient means carried by said body member and urging said safety pin against said cam, whereby when said clutch shaft is turned to move said clutch to either of its operative positions, said safety pin will be extended downwardly toward said index plate, the notches in said plate being so positioned that the safety pin can enter one of them only when the index pin is positioned in another of them.

2,669,111
FLUID PRESSURE TREATMENT OF SKINS
Robert Hamilton Griffin, Yonkers, N. Y.
Application July 28, 1950, Serial No. 176,445
16 Claims. (Cl. 69—41)

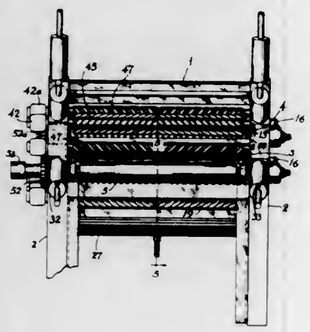
1. Apparatus for treating skins comprising a movable work support, nozzle means associated

with said support, means for varying the spacing and angular disposition of said nozzle means substantially parallel to a plane normal to and ex-



tending in the direction of surface movement of said support, and fluid jet means directable against said support by said nozzle means at variable pressure.

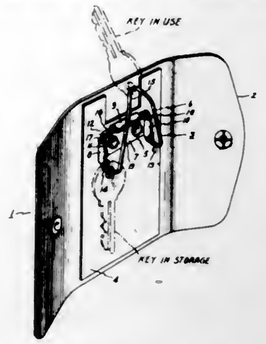
2,669,112
HIDE TREATING APPARATUS
Robert H. Griffin, Crestwood, Yonkers, N. Y., assignor to Tanners' Research Corporation, New York, N. Y., a corporation of Delaware
Application October 16, 1946, Serial No. 703,571
27 Claims. (Cl. 69—42)



1. Apparatus for treating individual sheets of material, comprising a plurality of work-supporting drums arranged in sequence, means associated with each of said drums for treating said material, means for gripping said material to the exterior of each of said drums, said means being adapted to present an entire surface of said material to the associated treating means, and means enabling said material to be transferred from one to the next of said drums.

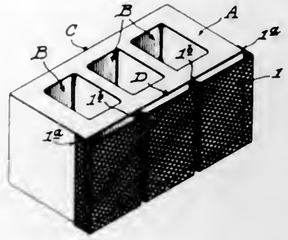
2,669,113
KEY HOLDER
Roswell S. Gillette, Erie, Pa.
Application September 15, 1951, Serial No. 246,811
4 Claims. (Cl. 70—456)

1. A key loop for a key case comprising a resilient wire shaped integrally to form an elongated mounting portion, key-holding portions extending laterally from either end of said mounting portion in substantially parallel side-by-side alignment, and a key "in use" portion spaced from and overlying said mounting portion and joining the outer ends of said key-holding portions, said key "in use" portion having a cut at one point therein whereby adjacent sides of said



cut may be separated to provide for the installation and removal of keys from said loop.

2,669,114
FACED, REINFORCED BLOCK WALL
Robert W. Mills, deceased, late of Jacksonville, Fla., by Ovella D. Mills, administratrix, Jacksonville, Fla.
Application March 22, 1951, Serial No. 216,894
3 Claims. (Cl. 72—32)



1. In a structure formed of blocks superimposed in courses, in which the blocks disposed end-to-end are secured together by mortar; reticulated sheets substantially coextensive with the exposed faces of the blocks respectively, each sheet having flanged ends engaging the ends of its related block and embedded in the mortar connecting adjacent blocks, each sheet having one or more offset crimps intermediate and parallel with the flanges engaging the adjacent face of its related block; said crimps being substantially V-shaped and providing spring tension causing the flanged ends to draw tightly against the ends of the blocks; and a plastic finishing coating covering said sheets and keying into the meshes thereof.

2,669,115
FURNACE WALL CONSTRUCTION
William A. Waite, Saunderstown, R. I.
Application March 4, 1950, Serial No. 147,669
3 Claims. (Cl. 72—102)

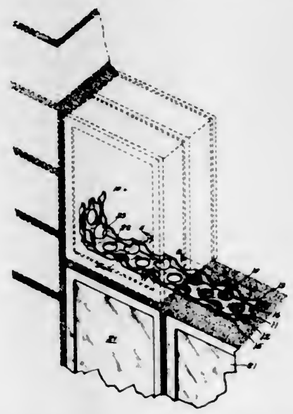
1. In a furnace wall construction, an outer brick section and an inner brick lining having a heat contacted face, said lining having a plurality of vertically arranged sub-sections each comprising upper and lower header bricks of equal size and shape having oppositely inclined plane surfaces converging toward each other in generally a V-shape with the V surface of an upper header upwardly facing and the V surface of the lower header downwardly facing, and with

the portion of said headers on one side of the apex of the V surface extending into the outer brick section, the inclined face of the upper header of one subsection and the inclined face of the lower header of the next subsection pro-



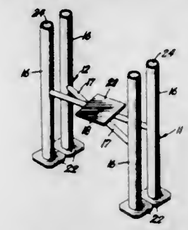
viding a dove-tailed space and a plurality of bricks in the outer brick section presenting a dove-tail lock extending into said dovetail space and contacting said inclined faces to lock the subsections and outer brick sections together and to support the subsection on the outer section.

2,669,116
BEARING AND SPACING GUIDE MEMBER FOR GLASS BLOCK PANEL CONSTRUCTION
Nels S. Erickson, Chicago, Ill., assignor to Glass Block Spacer Guide, Inc., Chicago, Ill., a corporation of Illinois
Application June 9, 1950, Serial No. 167,175
1 Claim. (Cl. 72—107)



A flexible, metallic channel shaped bearing and spacing guide member adapted to be situated between adjacent courses of glass blocks in a glass block panel construction, said member comprising a pair of spaced, upwardly extending substantially parallel marginal flanges, the upper edges of said flanges constituting upper bearing surfaces adapted to bear against the bottom surface of an upper course of glass blocks, and a web portion between said spaced flanges, each of said flanges being connected to said web portion at the respective edges thereof by U-shaped portions extending downwardly from the plane of said web portion, the lower edges of said U-shaped portions constituting lower bearing surfaces adapted to rest upon the upper surface of a lower course of glass blocks, said web portion disposed substantially midway between the upper and lower bearing surfaces, said web portion having a first series of spaced openings disposed along the longitudinal center line of said web portion, said web portion having a series of pairs of openings therein, each opening of a pair being spaced apart transversely of the longitudinal center line of the web portion and each pair of openings being spaced apart along the longitudinal center line of said web portion, each pair of openings being positioned between adjacent openings of said first series, each opening of said series of pairs extending continuously from the web portion of said spacing guide member, through said U-shaped portion and into a respective flange, said pair of openings forming lines of weakness at spaced intervals along the member for dividing said member into convenient lengths or for bending said member into angular shape.

2,669,117
MORTARBOARD
John Fuhrmann, Ebenezer, N. Y.
Application November 4, 1950, Serial No. 194,159
2 Claims. (Cl. 72—135)

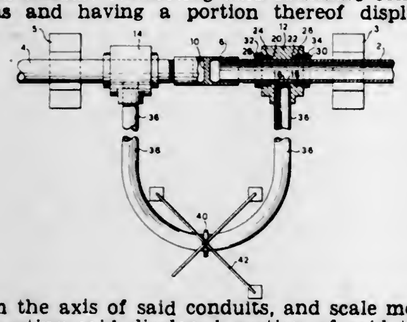


1. An all metal collapsible mortar board, comprising four tubular parallel metal legs open at their upper ends, a metal top plate removably resting on the upper ends of said legs, four metal pins fast to and projecting downwardly from said metal top plate and each removably fitted in the open upper end of a corresponding one of said legs, a first horizontal metal cross bar fixed at its opposite ends to one diagonally opposite pair of said legs substantially midway of the height of said pair of legs, a second horizontal metal cross bar fixed at its opposite ends to the other diagonally opposite pair of said legs immediately above said first metal cross bar, a fastener having a shank extending through registering vertical holes in said metal cross bars and permitting said legs and metal cross bars to be swung to a nested condition around the axis of said shank following removal of said top plate, said pairs of legs being wholly disconnected from each other above said second cross bar except for said pins and said top plate, and a small horizontal metal plate mounted on the center of said second metal cross bar substantially at the center thereof and adapted to support a heater for heating said top plate in cold weather.

2,669,118
APPARATUS FOR MUD WEIGHT DETERMINATION
Charles R. Nichols, McAllen, Tex., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware
Application February 19, 1949, Serial No. 77,397
2 Claims. (Cl. 73—32)

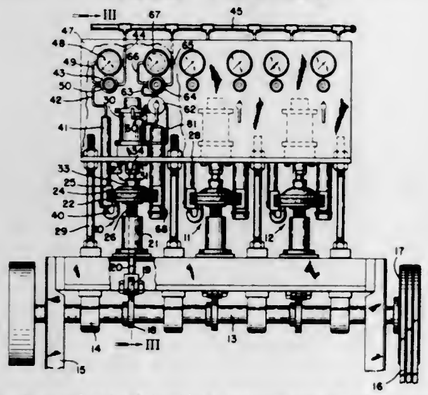
1. An apparatus for measuring variations in the density of fluids comprising a first conduit having a first rotatable connection secured thereto, a second conduit in coaxial alignment with said first conduit and having a second rotatable connection secured thereto, each of said connections having an aperture therein adapted to coin-

cide with an aperture in each of said conduits, a third conduit connecting said rotatable connections and having a portion thereof displaced



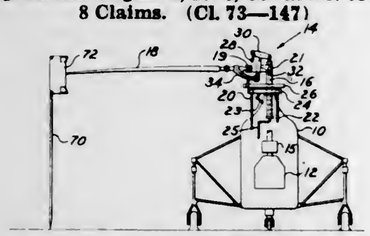
from the axis of said conduits, and scale means supporting said displaced portion of said third conduit.

2,669,119
METHOD OF TESTING PNEUMATIC TIRE COMPONENTS
Ernest B. Dodge, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application April 27, 1951, Serial No. 223,417
7 Claims. (Cl. 73—100)



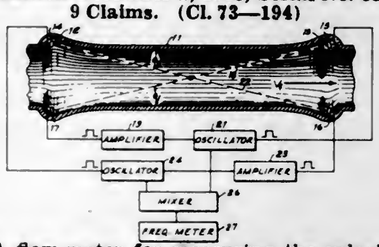
1. A method of testing components of a pneumatic tire which comprises subjecting a test piece composed of components of a tire assembled in operable relation to repeated spring-loaded deflections during an initial portion of the test and thereafter subjecting the test piece to deflections without spring loading until the test piece fails.

2,669,120
ROTOR BALANCING MEANS AND METHOD
Harry T. Jensen, Milford, and Horace W. Bonnett, Fairfield, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application August 2, 1946, Serial No. 688,146
8 Claims. (Cl. 73—147)



7. The method of producing balanced and interchangeable production blades for rotary wing aircraft having adjustable pitch setting mechanism comprising the steps of, rotating a blade to be balanced and a master blade together while both blades are held at a predetermined pitch angle, adjusting the pitch of said production blade until it has the same lift as said master blade and hence tracks with said master blade, rotating said in-track blades and simultaneously measuring the direction and magnitude of the pitch changing moment of each blade, and adjusting the aerodynamic contour of said production blade as indicated necessary by said measurements until the pitch changing moment of said production blade is of the same direction and magnitude as that of said master blade.

2,669,121
SUPERSONIC FLOW METER
Raymond L. Garman and Marcel E. Droz, Pleasantville, and John W. Gray, White Plains, N. Y., assignors to General Precision Laboratory Incorporated, a corporation of New York
Application December 2, 1948, Serial No. 63,122
9 Claims. (Cl. 73—194)

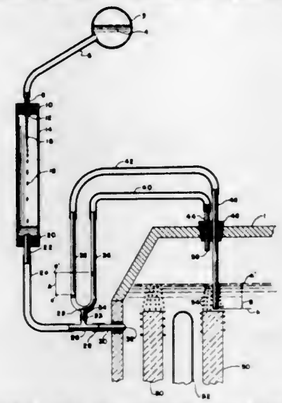


7. A flow meter for measuring the velocity of fluid flow in a fluid stream comprising, first and second transmitters and first and second receivers located in said fluid stream, said first transmitter and said first receiver being spaced apart by a predetermined distance and so located with respect to each other that the direction of transmission therebetween has at least a component in the direction of fluid flow, said second transmitter and said second receiver being spaced apart by said predetermined distance and so located with respect to each other that the direction of transmission therebetween has at least a component opposite to the direction of fluid flow, a first feedback path connected between said first receiver and said first transmitter, a second feedback path connected between said second receiver and said second transmitter, each of said feedback paths including a regenerative pulse oscillator having its input connected in circuit with a respective one of said receivers and its output connected in circuit with a respective one of said transmitters, means for obtaining a beat frequency signal from the signals generated by said regenerative pulse oscillators and an indicator operated by said frequency signal.

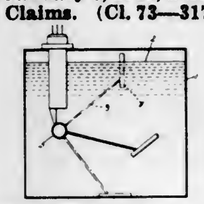
2,669,122
LIQUID LEVEL INDICATOR
Christopher C. Silsby, Jr., Euclid, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware
Application January 5, 1950, Serial No. 136,935
3 Claims. (Cl. 73—302)

1. An electrolyte level indicating device for an electrolytic cell including means to introduce a stream of electrolyte to the cell, and a manometer, the lower portion of which is in liquid connection with said means said manometer having a pair of pressure differential indicating legs, one of said legs terminating in said cell beneath the

electrolyte level therein and above a gas-producing electrode, and the other of said legs terminating in said cell above the liquid level of said electrolyte.



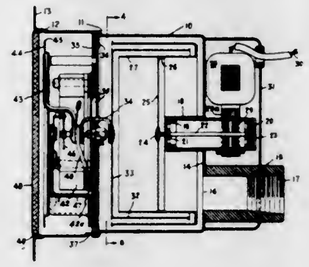
2,669,123
MASS MEASURING LIQUID LEVEL FLOAT GAUGE
Robert G. Ballard, Saugus, Mass., assignor to General Electric Company, a corporation of New York
Application January 6, 1949, Serial No. 69,535
2 Claims. (Cl. 73—317)



1. Liquid mass measuring float gauge apparatus for a liquid storage tank, comprising a pivot arm; means supporting said pivot arm for angular movement of one end thereof in said tank in a vertical plane and about an axis fixed in relation to said tank; a uniform-thickness substantially L-shaped hydrometer float fixedly secured to said end of said pivot arm such that said float lies flat in said tank in the empty condition of said tank and such that one arm of said L-shaped float extends substantially normal to the surface of liquid in said tank in the full condition of said tank, said one arm of said L-shaped float being shaped to have widths from its free end to the junction with the other arm of said float which are substantially proportional to the volume of said tank at levels from empty to full conditions of said tank, and said other arm of said float having a volume which buoys said float such that said one arm of said float just projects fully out of the liquid in said tank when said tank is in the full condition and filled with the densest liquid used with said tank; and means translating the angular orientations of said pivot arm about said axis into liquid mass indications.

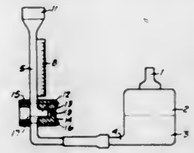
2,669,124
VACUUM GAUGE
John A. Roberts, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application February 25, 1948, Serial No. 10,747
12 Claims. (Cl. 73—388)

1. A vacuum gage for measuring the pressure in a vacuum system, comprising a vacuum-tight case having a supporting member positioned intermediate the ends thereof and an opening suitable for connection to a vacuum system, first and second rotatable members positioned within said case on one side of said supporting member in coaxial relation with each other, the spacing between major portions of said first and second members being not greater than about one-eighth inch, means to rotate said first rotatable member about the common axis of said first and second rotatable members, a yoke movably supported within an opening in said supporting member and attached to said second rotatable member,



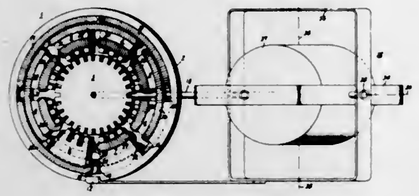
means supporting said yoke for rotation about the common axis of said first and second members, said last-named means including a pair of bearings mounted on said supporting member and coacting with the tines of said yoke, whereby said second rotatable member is maintained in accurate coaxial relation with said first rotatable member and is rotatable independently thereof, resilient means biasing said second rotatable member to a reference angular position, and indicating means connected to said second rotatable member for indicating angular displacements thereof from said reference position.

2,669,125
CLOSED MERCURY MANOMETER
Holger Hesse, Vedbaek, Denmark
Application September 9, 1952, Serial No. 308,539
7 Claims. (Cl. 73—402)



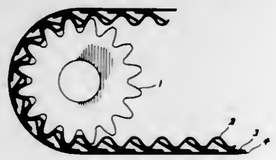
1. A manometer comprising a measuring tube portion, a means containing mercury connected to one end of said portion and adapted to receive a pressure to be measured for moving mercury into said tube portion in an amount corresponding to the magnitude of said pressure, a branch conduit connected to said tube portion and communicating with the ambient atmosphere, said tube portion being otherwise closed off, and a gas-permeable plug closing said conduit, said plug being impermeable to mercury and said tube portion being filled with gas over the mercury, whereby the gas pressure in said tube portion will be in equilibrium with atmospheric pressure whenever the level of mercury does not cut off communication between the tube portion and the branch conduit.

2,669,126
ELECTRICAL CONTROL ARRANGEMENT
James D. Simmons and Joseph H. Liversidge, Sheffield, and Robert William Wrathall, Chertsey, England, assignors to General Electric Company, a corporation of New York
Application January 14, 1952, Serial No. 266,302
11 Claims. (Cl. 74—5.6)



1. An electrical control arrangement comprising two relatively movable members of magnetic material, a source of periodically varying current, primary electrical winding means on one of said members coupled with said source, secondary electrical winding means positioned on one of said members to have voltages induced therein by said primary winding means and to produce electrical output signals characterizing displacements of said members from a predetermined relationship therebetween, a source of unidirectional currents, and electrical winding means on one of said members coupled with said unidirectional current source and producing forces tending to cause movement between said members simultaneously with the production of said output signals by said primary and secondary winding means.

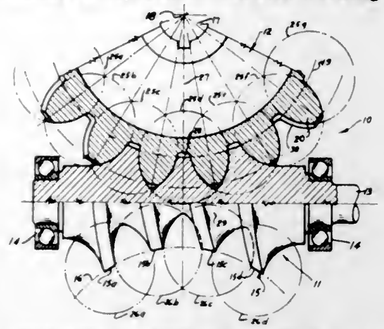
2,669,127
TOOTHED BELT FOR POWER TRANSMISSION
William Heyl Raser, Jr., Binghamton, N. Y.
Application June 25, 1952, Serial No. 295,436
2 Claims. (Cl. 74—231)



1. The combination, in a mechanical transmission belt, of a metal band, a number of obtuse-angle-shaped brackets fixed thereto providing cantilever legs inclined inward, a metal sinusoidally-bent strip or ribbon attached to said brackets and said band simultaneously but never attached to said brackets singly, and rivets or other means for making said attachments.

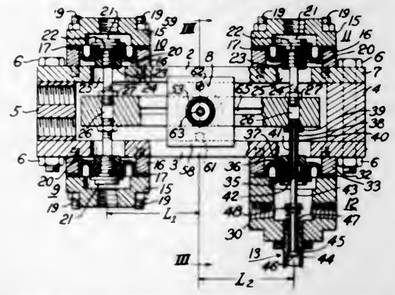
2,669,128
WORM GEARING
Philip H. Steiner, San Francisco, Calif., assignor of one-third to Edward B. Gregg, San Francisco, Calif.
Application September 5, 1952, Serial No. 308,067
6 Claims. (Cl. 74—458)

1. A worm gearing comprising an intermeshing worm and gear, said worm having a helical, concave thread and said gear having teeth with convex working faces, said thread and working faces



being developed as arcs of circles of the same radius.

2,669,129
MULTIPRESSURE TOTALIZING DEVICE AND ADJUSTABLE FULCRUM THEREFOR
Ray S. Williams, Orrville, Ohio, assignor to Hagan Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 20, 1951, Serial No. 222,050
3 Claims. (Cl. 74—522)

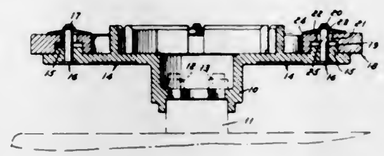


1. In a multipressure responsive device having spaced frame members, a beam between the frame members, a fulcrum for the beam secured to the frame members, pairs of housings on the frame members on opposite sides of the fulcrum, each housing having a pressure deflectable member connected to exert a force on the beam, diaphragms on each side of the fulcrum acting oppositely to each other and at the same distance from the fulcrum, said fulcrum comprising a yoke embracing the beam and slidable on the same, said yoke having journals extending outwardly from opposite sides of the beam, an antifriction bearing for each journal, a support for each bearing disposed between said frame members and having flanges engaging the same, means for releasably securing the yoke to the beam and means for releasably securing the bearing members to said frame members whereby the fulcrum may be moved along the beam to one side or the other of the mid-point between the lines of action of the pairs of pressure deflectable members on said beam.

2,669,130
FLYWHEEL
Julius P. Shell, Detroit, Mich., assignor to Douglas Tool Company, a corporation of Michigan
Application October 25, 1952, Serial No. 316,847
2 Claims. (Cl. 74—574)

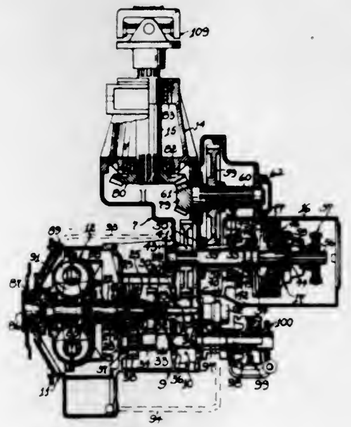
1. A fly-wheel for damping vibration incident to angular velocity variations of a rotating shaft,

said fly-wheel comprising a disc portion adapted to be secured to said shaft for angular movement therewith, an annular damping ring in frictional engagement with said disc portion, flexible means cantilevered from said disc portion and extending through slots in said ring in non-engaging relation with said ring, and resilient means secured to said flexible means clampingly engaging said ring for holding said ring in slippable frictional engagement with said disc por-



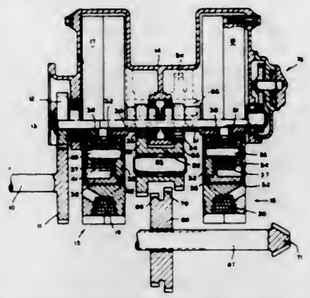
tion and with said resilient means, said resilient means exerting a greater pressure on said ring than said ring exerts on said disc portion whereby relatively minor angular velocity variations of said shaft cause limited relative rotation of said ring and said disc portion via the flexibility of said flexible means and major angular velocity variations of said shaft cause said ring to be displaced relatively to both said disc portion and said resilient means.

2,669,131
DRIVE ARRANGEMENT FOR TRUCK MIXERS
Chris Gerst, Detroit, Mich., assignor, by mesne assignments, to Le Roi Company, Milwaukee, Wis., a corporation of Wisconsin
Application March 6, 1950, Serial No. 147,867
6 Claims. (Cl. 74—730)



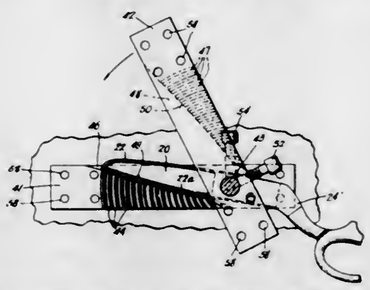
1. A transmission embodying a housing, a torque converter arranged in said housing including an input shaft, a tubular output shaft and a converter pump directly coupled with and driven by said input shaft, multi-speed reversible gearing including a tubular main shaft coupled with the tubular output shaft of said torque converter, the input and output shafts of said torque converter and the tubular shaft of said gearing being axially aligned, the input shaft of the torque converter extending freely rotatably through said tubular shafts and the housing to side of such housing.

2,669,132
DRIVE MEANS
Robert Lapsley, Buchanan, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application April 18, 1952, Serial No. 283,059
9 Claims. (Cl. 74—770)



1. In a torque transmitting device, the combination of a drive shaft, a first sleeve member journaled on said drive shaft, a second sleeve member journaled on said drive shaft, first planet carrier means arranged concentrically about said drive shaft and said first sleeve member, first planetary gear means between said drive shaft and said first sleeve member, said first planetary gear means including planetary pinion means carried by said first planet carrier means, first selectively operable electrodynamic brake means for braking said first planet carrier means whereby drive is effected between said drive shaft and said first sleeve member, second planet carrier means arranged concentrically about said drive shaft and said second sleeve member, second planetary gear means between said drive shaft and said second sleeve member, said second planetary gear means including planet pinions carried by said second planet carrier means, second selectively operable electrodynamic brake means for braking said second planet carrier means whereby drive is effected between said drive shaft and said second sleeve member, a driven shaft, selectively operable change speed gear means between said first sleeve member and said driven shaft, and reverse gear means between said second sleeve member and said last-named change speed gear means.

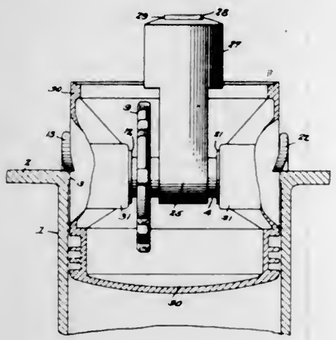
2,669,133
METHOD AND APPARATUS FOR PRODUCING PINKING SHEARS
Kaj S. Christensen, Norwalk, Conn.
Application June 18, 1949, Serial No. 99,983
4 Claims. (Cl. 76—104)



1. The method of forming teeth in a set of cooperable, longitudinally flanged, pinking-shear blades each having a leading and trailing edge

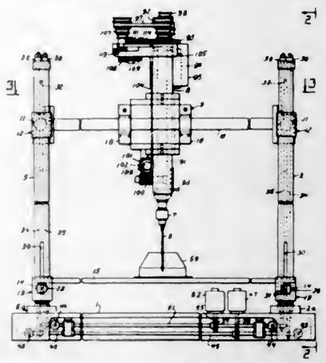
which includes the steps of shearing through a longitudinal flange on the leading edge of one blade by a pair of cooperable tooth-forming die members one of which engages the inside of the flange while at the same time positioning the trailing edge of the blade by said one die member, and thereafter shearing through a flange on the leading edge of the other blade by the same cooperable die members the said one of which engages the outside of the flange of said other blade, while at the same time positioning the trailing edge of the blade by the other die member, the engagement between the trailing edges of the blades and the die members controlling the relief of the surfaces of the teeth, thereby to cause the toothed flanges to be complementary and engageable with each other in cutting relationship when the blades are pivotally connected and closed on each other.

2,669,134
RING RIDGE REAMER
Arthur C. Toske, Jacksonville, Fla.
Application March 9, 1950, Serial No. 148,568
1 Claim. (Cl. 77—2)



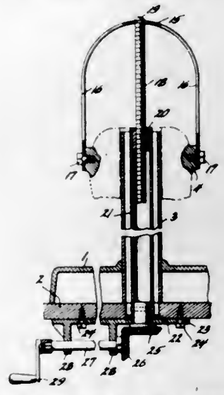
A tool for reaming a cylinder bore to remove from the wall thereof an annular ridge resulting from the wear of piston rings against the wall of said bore, said tool comprising an open-ended elongated hollow head of a diameter substantially equal to the diameter of the cylinder bore, said head having horizontal openings extending transversely therethrough intermediate the ends thereof, tool bit holders mounted in the openings for movement therein along an axis which lies perpendicular to the longitudinal axis of the head, one of said tool bit holders having a threaded socket, tool bits mounted in the holders adjacent the periphery of the head for movement with said holders including a cylindrical body having one of its ends threaded in said hollow socket, the opposite end of said cylindrical body being rotatably mounted in the other tool bit holder, an adjusting wheel secured to said cylindrical body and accessible through said open end of said hollow head for effecting rotation of said cylindrical body, advancing or retracting said tool bits radially with relation to the head, as said adjusting wheel is rotated, and means carried by the tool bit advancing and retracting means and extending through one end of the head, for rotating said head about its longitudinal axis and moving the tool bits in contact with said ridge.

2,669,135
MACHINE TOOL CONSTRUCTION
Jack K. Moore, Tucson, Ariz.
Application May 13, 1953, Serial No. 354,758
9 Claims. (Cl. 77—5)



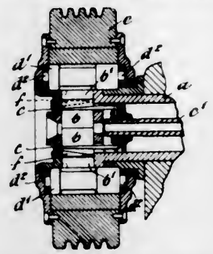
1. A machine tool construction comprising, a base member having four upright parallel posts mounted thereon one adjacent each corner, a pair of horizontal bars extending respectively between the posts on the opposite sides of said base, a mounting member arranged for sliding movement on each of said posts, said mounting members being connected to the ends of said horizontal bars to support them, jack means associated with each of said posts for shifting said mounting members vertically along the post, and mechanism for simultaneously operating said jack means to raise and lower said bars and maintain them in the same horizontal plane.

2,669,136
HEAD RAISING AND LOWERING ATTACHMENT FOR DRILL PRESSES
James H. Dodson, Mobile, Ala.
Application April 7, 1952, Serial No. 280,881
3 Claims. (Cl. 77—28)



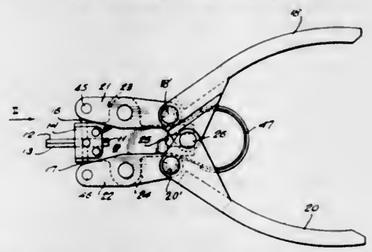
1. An attachment for a drill press of the type having a hollow upright column and a head adjustable vertically thereon and carrying a drill spindle, comprising a yoke-shaped sling having a pair of laterally spaced arms provided with means for connecting them to opposite sides of the head and having a central portion to extend over the top of the column, and means mounted concentrically within the column and connected to the central portion of the sling for raising or lowering the head.

2,669,137
ROTARY SWAGING OR FORGING MACHINES
Samuel Smith, Elmdon, England
Application November 22, 1950, Serial No. 197,016
Claims priority, application Great Britain December 2, 1949
4 Claims. (Cl. 78—22)



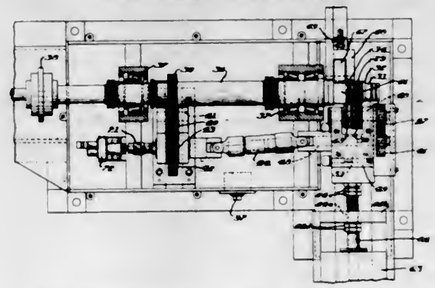
1. In a device of the class described, in combination, a stationary tubular spindle serving as an axle, said spindle having a plurality of transverse slots, a swaging die, a hammer and an adjusting wedge slidably mounted in each of said slots, a roller raceway surrounding the spindle and extending axially beyond each side of the transverse slots, a plurality of rollers having cylindrical portions rolling on the raceway, alternate ones of said rollers being spool shaped and the remaining rollers being straight cylinders, a second raceway surrounding and journaled on said plurality of rollers, a flywheel surrounding and carried on the second raceway, said swaging hammers having end portions protruding into the path of the straight cylindrical rollers, whereby all of said rollers serve to journal the flywheel and the straight rollers only cooperate with the swaging hammers.

2,669,138
DEVICE FOR COLD PRESSURE WELDING WIRES AND THE LIKE
Anthony Bagnold Sowter, Ickenham, England, assignor to The General Electric Company Limited, London, England, a British company
Application August 15, 1952, Serial No. 304,540
Claims priority, application Great Britain April 25, 1952
9 Claims. (Cl. 78—82)



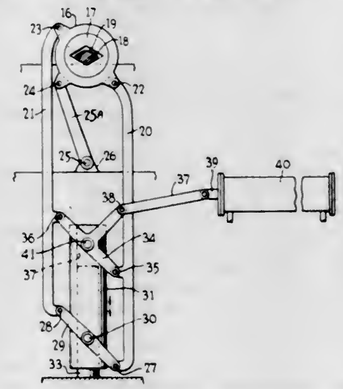
7. A device for cold pressure welding wires and the like comprising a supporting block provided with a slot to accommodate a pair of wires to be joined arranged in superposed and closely fitting engagement with said slot, releasable retaining means to urge said wires against the bottom of said slot, a pair of oppositely moving pressure welding pins mounted in aligned bores of said block one on each side of said slot, the center line of said bores being perpendicular to said wires and coinciding with the plane containing the axes of said wires, a pair of links pivotally mounted on opposite sides of said block, corresponding ends of said links each bearing upon one of said welding pins, a pair of operating levers each pivotally connected to one of the remaining ends of said links and being connected together by a common pivot movable in a slot of said block, and resilient means to normally urge said handles apart.

2,669,139
APPARATUS FOR ROLLING THREADS INTO METAL PIPE
Harry J. Finch, Oil City, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 28, 1949, Serial No. 90,071
5 Claims. (Cl. 80—6)



1. In a machine for rolling threads into metal pipe, a rotary die adapted to be positioned inside a pipe end, the die being mounted for rotation about a fixed axis, a second rotary die adapted to be positioned outside the pipe end, a support in which the second die is mounted, a base on which the support is pivotally mounted, the base being movable generally toward and away from the first mentioned die, and means for maintaining the support in desired angular position about its pivotal mounting on the base.

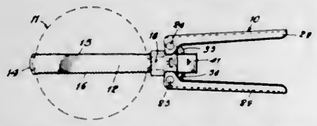
2,669,140
MATERIAL HANDLING DEVICE
Frank J. Wood, New Rochelle, N. Y., assignor to Erwin Loewy, New York, N. Y.
Application July 15, 1949, Serial No. 104,869
4 Claims. (Cl. 80—53)



1. In a material turning device, a guide means, turning links pivotally mounted on opposite sides of said guide means, said links being joined by a cross link at a point remote from their connection with the guide means to form a par-

allelogram, means reciprocating said links, an oscillatable lever pivotally connected at one end to said guide means between the pivot points of said turning links, said lever being pivoted at the other end to a relatively stationary point between said links and being normally angularly disposed relative to the plane passing through the center of the guide means and the pivot of said lever at said relatively stationary point so that when said links move in opposite directions to turn said guide means, said lever will be oscillated and move said guide means and links upwardly as the lever passes through said plane passing through the center of the guide means and the pivot of said lever at said relatively stationary point, so that an article held in said guide means will be turned and raised as the turning progresses, the guide means returning to approximately the same vertical position at the end of the material turning operation.

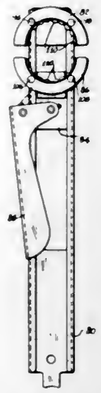
2,669,141
SLIDING JAW SCREW CAP JAR WRENCH
Edgar B. Davis, Tangerine, Fla.
Application June 29, 1951, Serial No. 234,214
13 Claims. (Cl. 81—3.42)



1. A jar opener comprising an elongated bar having a jaw on one end, a body member slidable on said bar, a jaw member slidable in said body member, a pair of opposed handles pivoted on said body member, a lever arm on each of said handles engaging said jaw member for sliding said jaw member in the direction of the jaw on the bar, and a pawl member carried by each handle engageable with said bar for releasably positioning said jaw member on said bar upon pivoting said handles together for clampingly engaging a jar cap between the jaw and said jaw member, engageable means on said elongated bar for reception of said pawl so as to provide firm contact therebetween, said pawl members being releasable from said bar upon separating said handles for removing the jar from the cap engaged thereby.

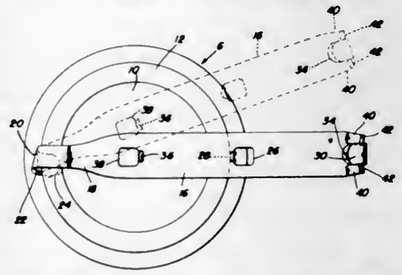
2,669,142
CAM OPERATED SLIDING JAW CLOSURE REMOVER
Clarence W. Fuller, Yonkers, N. Y.
Application July 28, 1952, Serial No. 301,196
2 Claims. (Cl. 81—3.42)

1. A jar and bottle cap opener of the character described, comprising a handle of C-shaped cross section providing opposed longitudinal guide grooves, a clamping jaw fixed to one end of the handle, a plurality of teeth formed along one outer edge of the handle, a slide which is mounted within said guide grooves on said handle for sliding movement toward and away from the clamping jaw, a second clamping jaw fixed to said slide, said first and second clamping jaws being complementary to each other, a cam slot formed in said slide, said jaws being relatively movable toward and from each other on an axial line which intersects the cam slot, said cam slot being disposed at an angle of approximately 55° relative to said axial line, a cam follower engaging said cam slot, a bell-crank-shaped lever, one end of said lever constituting a handle, the opposite end of said lever supporting said cam follower and a toothed dog which is secured to the



intermediate portion of said lever for movement with said lever into and out of engagement with the teeth of the first-mentioned handle.

2,669,143
LID LIFTING TOOL
Ray C. Bradbury, Alcomdale, Alberta, Canada
Application June 6, 1952, Serial No. 292,045
1 Claim. (Cl. 81—3.46)

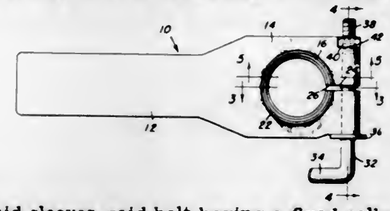


A lid lifting tool comprising an elongated rigid bar member adapted to be used as a pry lever and adapted to span a container closing lid, said bar member being provided at one end with a laterally extending hook and being further provided intermediate its ends with a laterally extending abutment cooperating with said hook, said hook and abutment depending from the same side of the bar member and being spaced apart a predetermined distance slightly less than the diameter of the lid which is to be placed between the hook and abutment to be lifted, said hook being laterally offset in respect to the longitudinal axis of the bar member and provided with a feather-edged bill portion.

2,669,144
CUP-SHAPED WRENCH FOR THREADED FITTINGS
Edward Rausch, Baltimore, Md.
Application January 10, 1951, Serial No. 205,354
2 Claims. (Cl. 81—65)

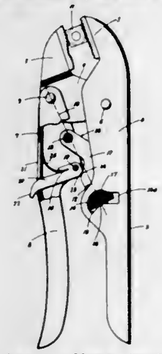
1. A wrench comprising a cup-shaped unitary socket for receiving the externally threaded portion of a pipe fitting, means in said socket for receiving, protecting and frictionally engaging the external threads of said portion, means for contracting said socket upon said portion, including a handle carrying said socket, said socket and

handle being slotted to permit contraction of the socket, said handle having aligned smooth bore journal sleeves on opposite sides of the slot, said contracting means comprising a bolt journaled



in said sleeves, said bolt having a fixed collar engaging the outer end of one of said sleeves, a nut engaging said bolt and fixedly secured to the other sleeve.

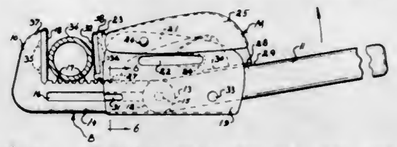
2,669,145
RELEASING DEVICE FOR LOCKING PLIERS
Homer A. Mead, Turlock, Calif.
Application October 3, 1952, Serial No. 312,913
4 Claims. (Cl. 81—84)



1. In wrench type pliers including relatively movable handles and a beyond dead center locking unit connected diagonally between said handles, the movable handle being channel shaped and opening inwardly; a releasing unit comprising a lever extending laterally of the pliers and disposed mainly in the channel of the movable handle with its inner end adjacent the locking unit, said movable handle having a longitudinal slot through which the outer end of the lever projects, a cross pin pivoting the lever adjacent its inner end on said handle, and a cam on the inner end of the lever engaging the locking unit and arranged to impart a releasing movement to said locking unit upon actuation of the lever and movement of the outer end thereof in a direction away from the jaws.

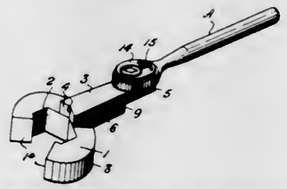
2,669,146
ADJUSTABLE WRENCH HAVING INNER JAW ACTUATED BY PIVOTAL HANDLE
Estel E. Florence, Buffalo, Minn.
Application April 22, 1952, Serial No. 283,597
4 Claims. (Cl. 81—91)

1. An adjustable wrench, for turning a piece of work against stress, comprising an elongated rack having a laterally extending jaw attached at one end thereof and a handle member pivotally connected at the other end thereof, said handle member normally being in aligned relation with the general elongated disposition of said rack, an adjustable sleeve slidably mounted upon said handle and rack, and a second jaw rockably mounted upon said adjustable sleeve, said second jaw being normally spring pressed into secure engagement with said rack and rockable against spring pressure into disengagement



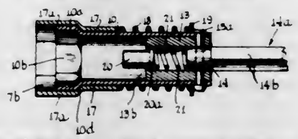
therefrom, whereby said second jaw may be quickly adjusted according to the size of said piece of work.

2,669,147
RIGID-JAW WRENCH HAVING JAW-FACE EXTENSIONS ON OFFSET SHANK
William M. Koenig, Webster, S. Dak.
Application March 30, 1953, Serial No. 345,459
4 Claims. (Cl. 81—119)



1. In a wrench for use in tightening tension bolts for endless tracks for tractors, a shank member having a downwardly depending shoulder adjacent one end, a wrench head formed rigidly with the shank and having one of its faces abutting said shoulder and welded thereto, the end faces of said shank terminating flush with work-engaging jaw portions of said wrench head, an outer end portion for said wrench shank having a socket for receiving a wrench part, and the medial portion of said shank being relatively thick and extending substantially below the outer end portion of said shank.

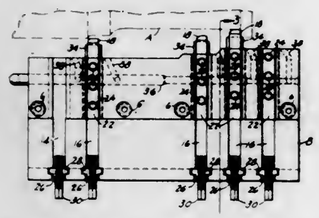
2,669,148
MULTISOCKET EJECTOR-WRENCH FOR NIPPLES
Joseph Falk, Glastonbury, Conn.
Application March 9, 1953, Serial No. 341,201
5 Claims. (Cl. 81—124.1)



1. A combination tool comprising an inner sleeve having an enlarged out-of-round portion forming a nut-receiving socket at its forward end and having a driving member at its rear end; an outer sleeve slidable on the inner sleeve and having an enlarged portion forming a nut-receiving socket at its forward end surrounding the out-of-round portion of the inner sleeve so as to form a driving connection therewith and normally extending beyond the end of said inner sleeve a sufficient distance to receive a nut therein in advance of the inner socket; and yielding means urging the outer sleeve forwardly along the inner sleeve, the enlarged portion of the inner sleeve forming a stop for the outer sleeve to position it in the normal nut-receiving position, and the

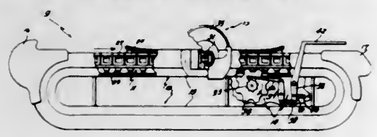
yielding means enabling the outer sleeve to be retracted and the inner nut-receiving socket exposed to receive a nut.

2,669,149
TOOL HOLDING BLOCK
Edmund A. Watson, Ridgewood, and George L. Preston, Montclair, N. J., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application May 20, 1950, Serial No. 163,314
11 Claims. (Cl. 82—37)



1. In a tool holding block for lathes having a tool seating groove extending therethrough between the sides and beneath the top face thereof, said block being formed with a slot in its top face overlying and communicating with said tool seating groove, a tool clamping bar adapted to be endwise slidably inserted in and removed from said slot covering the top of said groove, said clamping bar and slot having complementary cooperatively engaging side and wall portions, respectively, retaining the bar against displacement from said slot except in an endwise direction, and adjustable means carried by the clamping bar for clamping the shank of a tool in said groove and the clamping bar in said slot.

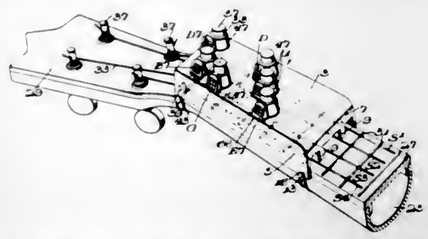
2,669,150
MUSICAL INSTRUMENT
Paul Shklar, Albany, N. Y.
Application May 10, 1951, Serial No. 225,589
4 Claims. (Cl. 84—93)



2. A musical instrument comprising an elongated frame; a conduit mounted upon and extending transversely of said frame for conveying a fluid under pressure therethrough; a belt, having a plurality of fluid-actuated, tone-producing elements secured in equi-longitudinally spaced relation thereto, mounted to move longitudinally of said frame and carry said tone-producing elements consecutively into and through said conduit; and manually actuated means for moving said belt for consecutively positioning said tone-producing elements within said conduit to be actuated by the fluid flowing therethrough.

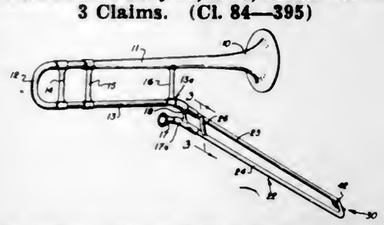
2,669,151
CHORD PLAYER
Mario Maccaferri, Rye, N. Y.
Application April 10, 1951, Serial No. 220,237
6 Claims. (Cl. 84—317)

1. A chord player for stringed musical instruments, including a casing and a top therefor having a plurality of openings therethrough, a collar upstanding from the top about each opening and a control element reciprocably mounted to extend through each opening and collar, string contacting means associated with and controlled by said control elements, a block connected to



each collar having a surface inclined at an angle to the plane of the top and extending upwardly therefrom and visual means on said inclined surface for indicating the chord represented by the adjacent control button and for viewing by the player of the stringed musical instrument when the instrument is in playing position.

2,669,152
TROMBONE
Davis Shuman, Brooklyn, N. Y.
Application February 17, 1950, Serial No. 144,740
3 Claims. (Cl. 84—395)

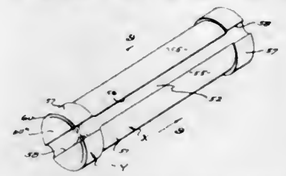


1. A slide trombone comprising a bell section including a bell on one end thereof, a bell branch section substantially parallel to said bell section, a bell bow connecting the end of said bell section remote from said bell to one end of said bell branch section, a first telescopic section connected to the opposite end of said bell branch section, a second telescopic section secured to said first telescopic section in parallel relation thereto, and a playing slide for the selection of a normal playing range of tones freely slidably mounted on said telescopic sections, the longitudinal axis of said first telescopic section being angulated with respect to said bell branch section in a direction away from the axis of said bell section so as to form an obtuse included angle of substantially less than 180° between the connected ends of said bell branch section and first telescopic section.

2,669,153
RESILIENT COUPLING PIN
Ernie L. Launder, Montebello, Calif., assignor to H. & L. Tooth Company, Montebello, Calif., a corporation of California
Original application November 4, 1949, Serial No. 125,521. Divided and this application February 13, 1951, Serial No. 210,730
6 Claims. (Cl. 85—8.3)

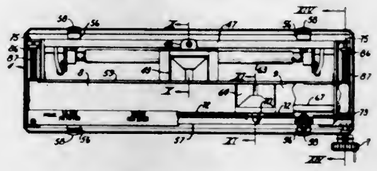
1. A retaining pin of the character described including, two like rigid separate elongate metal sections extending longitudinally of the pin from one end to the other thereof, and a rubber pad

between and spacing the sections apart laterally of the pin, the pad being substantially coextensive with the pin sections and permanently bonded thereto, each section having an elongate body and like heads at the ends of the body projecting from the body laterally of the pin only in the



direction that the sections are spaced laterally by the pad, the heads establishing laterally extending shoulders at the ends of the body and opposing each other, the normal thickness of the pad between the sections being substantially greater than the projection of the shoulders laterally of the body.

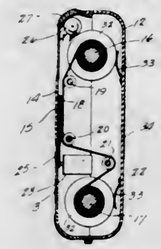
2,669,154
MAGNIFYING VIEWER FOR WEIGHING SCALES
Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application March 24, 1949, Serial No. 83,200
7 Claims. (Cl. 88—1)



1. In a cylindrical chart weighing scale, in combination, a chart having columns of weight and value indicia, a pair of reading lines adjacent the chart one for the weight indicia and one for the value indicia, said reading lines being on the same side of the chart and spaced from each other circumferentially of the chart, a viewing mechanism comprising a fixed lens assembly for presenting a magnified image of the weight indicia and reading line and a movable lens assembly the path of which is adjacent the fixed lens and which selectively cooperates with any of the columns of value indicia, a price chart mounted on the viewing assembly in full view adjacent the path and outside the field of view of the movable lens assembly and an indicator mounted on the movable lens assembly and cooperating with the price chart for identifying the column of value indicia then in the field of view of the movable lens assembly.

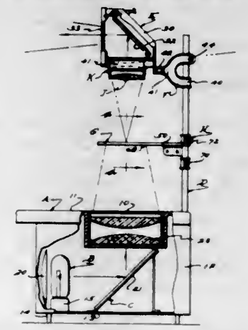
2,669,155
EXPOSURE METER FOR MOVIE CAMERAS
Chester W. Brow, Whitman, Mass.
Application June 29, 1951, Serial No. 234,175
1 Claim. (Cl. 88—23)

An exposure meter comprising a housing provided with a viewing window in the top thereof, a pair of reels journaled entirely within said housing on opposite sides of the window in spaced parallel relation, respective knobs connected to the reels externally of the housing, a flexible band mounted on said reels and arranged adjacent said window, said band being inscribed with a plurality of successive diaphragm aperture scales, each scale representing correct diaphragm apertures for different degrees of light intensity for a particular type of film and for a particular shutter speed, a photocell mounted in said housing and being arranged to receive light from the exterior of the housing, a galvanometer mounted in said housing adjacent one margin of said window and connected to said photocell, said galvanometer comprising a solenoid with its axis arranged normal to the plane of the win-



dow, an armature axially mounted therein a pointer secured to said armature and extending between the flexible band and said window, the pointer being movable transversely of said band and over said aperture scales to indicate the correct diaphragm aperture corresponding to the intensity of light impinging on said photocell, a first roller mounted beneath said galvanometer, and a second roller mounted beneath said pointer adjacent said one margin of said window, said band passing under said first roller and over said second roller.

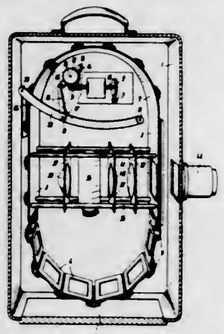
2,669,156
IMAGE SLIDE PROJECTOR APPARATUS
Harold G. Fitz Gerald, Los Angeles, Calif.
Application April 22, 1950, Serial No. 157,511
5 Claims. (Cl. 88—26)



1. An image projector including, a box-like body having a top with a transparent section therein, a light source in the body, a post projecting up from the body, means in the body directing light from the light source in a vertical shaft up through said section, a light projecting head on the post above said section receiving said vertical shaft of light and delivering a shaft of light horizontally and including a lens normally projecting an image from a transparency on the top of the body, a slide carrier on the post carrying a slide above said section and in the path of said vertical shaft of light, and a lens attached to the head and cooperating with the lens of the projecting head to project an image from the slide, the carrier including a plate in a plane normal to the axis of said vertical shaft of light and

having an aperture passing light to the head and an apertured shutter slidably carried by the plate and adapted to be shifted relative to the plate to move the aperture in the shutter into and out of register with the aperture of the plate the aperture in the shutter being smaller than the aperture in the plate.

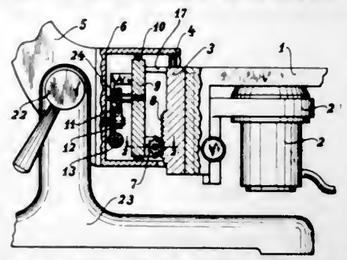
2,669,157
ENDLESS SLIDE CHAIN PICTURE PROJECTOR
Karl Schmitt, Fulda, Germany
Application July 16, 1952, Serial No. 299,121
3 Claims. (Cl. 88—28)



1. A projector comprising a bow capable of acting as a guide and as a means of suspension, and an endless chain of diapositives arranged in an end-to-end relationship to each other suspended on said bow, a driving mechanism capable of moving said diapositives whereby said latter are brought into the trace of rays of lighting apparatus accommodated internally of said guide, furthermore said endless chain comprising individual links, each of which comprises a frame and these frames being pivotally and detachably hooked together by means of connecting members and having lateral upwardly bent edges running in the direction of motion of the chain which edges are again bent inwardly at right angles so as to form flanges to permit hook-like bent portions of the frames serving as bearing surfaces for two leaf springs in each frame, said leaf springs holding two glass plates having the film picture between them firmly in the frame, the lateral ends of the flange-type bent portions showing narrow bent rims in order to prevent the springs from sliding off outwardly, inward displacement of said leaf springs being prevented by said connecting members.

2,669,158
ADJUSTMENT MECHANISM FOR MICROSCOPES
Karl Frischmann, Wetzlar-Garbenheim, Germany, assignor to Ernst Leitz G. m. b. H., Wetzlar, Germany, a corporation of Germany
Application August 31, 1950, Serial No. 182,493
1 Claim. (Cl. 88—39)

In a microscope having a stand comprising a chamber with side walls, and a movable stage for holding a specimen: a device for adjustably moving the stage to bring the specimen into focus of the optional system of the microscope, said device comprising a coarse adjustment slide carrying the stage, a fine adjustment slide, means for moving said coarse adjustment slide in the direction of the optical axis of the microscope, said coarse adjustment slide moving means being carried by the fine adjustment slide, means disposed in the stand of the microscope for moving the fine adjustment slide in the direction of the optical axis of the microscope, first guide means



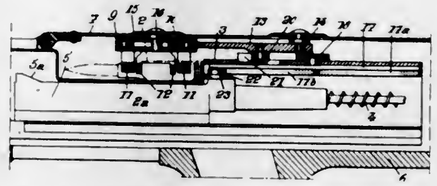
for the coarse adjustment slide, and second guide means for the fine adjustment slide, the two guide means being arranged directly and separately from each other on said side walls and being parallel to each other to assure parallel motion of the slides.

2,669,159
REARVIEW MIRROR ASSEMBLY
Howard R. Rogers, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application June 29, 1950, Serial No. 171,199
3 Claims. (Cl. 88—77)



1. A rear view mirror for automobiles and the like, comprising a supporting case including a rear wall provided with mounting means therefor and open at the front thereof, a frame attached to said case and surrounding the opening thereof, a bifurcated member secured to the upper portion of said frame and directed inwardly within the case, a horizontal pintle carried in the spaced ends of said bifurcated member, a mirror element comprising a transparent support of prism form having two reflective surfaces of different reflective values upon opposite surfaces thereof disposed at an angle to one another and viewable through the open front of said case, a paramagnetic bracket member carrying the mirror element and embodying a substantially L-shaped body portion including a base upon which the mirror element is supported and upstanding legs engaging the rear surface of the mirror element, the base of said bracket member having upstanding bent fingers engaging the front surface of the mirror element adjacent the bottom edge thereof while the ends of the upstanding legs have forwardly and downwardly bent fingers engaging the front surface of said mirror element adjacent its upper edge, said upstanding legs being also provided with hanger portions for hingedly supporting said bracket member on said pintle, a finger grip carried by said bracket member and projecting downwardly beneath said case and by which swinging movement of the bracket member within the case can be effected by the driver to bring the desired reflecting surface of the mirror element into the driver's view, a second bifurcated member secured to said frame in the lower portion of the case and directed inwardly thereof, and permanent magnets carried by second bifurcated member and engageable by the bracket member carrying the mirror element for maintaining said mirror element in predetermined selected position.

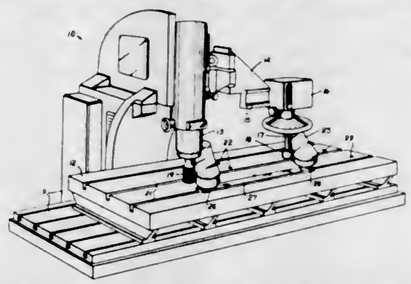
2,669,160
BELT FEED FOR FIREARMS
Bernard Maillard, Geneva, Switzerland, assignor to the Society "Brevets Aero-Mecaniques," S. A., Geneva, Switzerland, a society of Switzerland
Application June 13, 1949, Serial No. 98,736
Claims priority, application Luxembourg June 19, 1948
2 Claims. (Cl. 89—33)



1. A firearm of the type described in which the cartridges are detachably carried by a belt and juxtaposed along said belt transversely thereto at a constant interval or pitch from one another, which firearm comprises, in combination, a stock, means forming a cartridge chamber movable with respect to said stock in a direction parallel to the axis of said chamber, a cover rigid with said stock, a breech casing rigid with said chamber, a breechblock movable in said breech casing with a reciprocating motion parallel to the axis of said cartridge chamber and including a recoil stroke and a return stroke, means carried by said breechblock for pushing into said cartridge chamber, during the return stroke of said breechblock, a cartridge located in a given position parallel to said axis, a feeding device for moving said belt transversely to said axis with a step by step displacement of an amplitude equal for every step to one half of said pitch, a lever pivoted to said cover and operatively connected with said feeding mechanism for operation thereof, a cam pivoted to said breech casing operatively connected with said lever, and a roller carried by said breechblock in cooperating contact with said cam for actuating it, said cam being shaped to cause every step of the displacement of said belt that brings one cartridge into said given position to occur only after said breechblock has moved through a substantial part of its recoil stroke and to cause the next step of this belt displacement to take place at the end of the next return stroke of said breechblock.

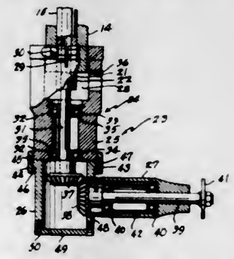
2,669,161
UNIVERSAL SET-UP MEANS FOR PATTERN CONTROLLED MACHINE TOOLS
Arthur George Frampton, Toronto, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation
Application November 3, 1951, Serial No. 254,749
4 Claims. (Cl. 90—13)

1. Means for positioning a pattern and a workpiece on a worktable of a pattern controlled machine having a tool and a follower, said means comprising a worktable having a first and a second locating pin, the pins being spaced apart longitudinally of the worktable; the worktable having a first groove extending along a line points of which are at varying distances from the first locating pin; the worktable having a second groove extending along a line points of which are at varying distances from the second locating pin; a third and a fourth locating pin slidably mounted in the first and the second groove respectively; a pair of spaced apart locating means on the underside of the pattern, the first locating pin being engageable with one of the locating



means of the pattern and the third locating pin being engageable with the other locating means of the pattern; a pair of spaced apart locating means on the underside of the workpiece, the second locating pin being engageable with one of the locating means of the workpiece and the fourth locating pin being engageable with the other locating means of the workpiece, the locating means on the pattern and workpiece comprising recessed surfaces of complementary configuration to the pins with which they are engageable.

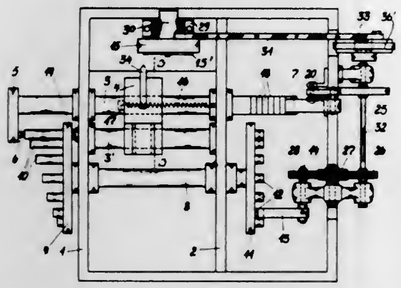
2,669,162
AUXILIARY TOOL ADAPTER FOR DRILL PRESSES
Stanley A. Arliss, Long Hill, Conn.
Application November 1, 1948, Serial No. 57,773
2 Claims. (Cl. 90—17)



1. An auxiliary tool adapter for drill presses including an upright adjustable spindle and an upright drill shaft, said adapter comprising a housing including an upright portion and a horizontal laterally projecting arm, means for securing said upright portion to the spindle for movement therewith, an upright shaft in said upright portion of the housing with its upper end in position to be secured to the drill shaft for operation thereby, bearings for said shaft in the upright portion, a horizontal shaft in said arm, bearings for said latter shaft in the arm, driving gears connecting the shafts and located in the junction between the upright portion and said arm, means on the horizontal shaft for mounting a tool thereon, said housing also including an intermediate portion to which said arm is connected, said upright portion of the housing and

said intermediate portion being provided with lower and upper abutting ends respectively, one of said abutting ends being provided with an outer flange and the other being externally threaded, and a clamping ring screwed onto said threaded portion and provided with an inturned flange engaging the outer flange to clamp said ends together.

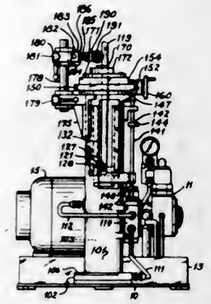
2,669,163
SETTING DEVICE
Hans Martin Sandkaulen, Solingen-Merscheid, Germany
Application November 13, 1950, Serial No. 195,163
Claims priority, application Germany November 17, 1949
3 Claims. (Cl. 90—24)



1. A setting device for the accurate setting of a tool support in relation to a work support to provide movement of one of said supports by predetermined increments for forming spaced grooves, comprising a frame, a spindle displaceably guided in the said frame, one of the said supports mounted on the said spindle, a stop head disposed on the free end of the said spindle, a rotatable plate mounted in the said frame opposite the said stop head, a plurality of end stops of differing length secured to the said rotatable plate, so that each of the said end stops may be axially aligned with the said stop head upon rotation of the said rotatable plate, a boss rigidly mounted on the said frame and disposed opposite to and in axial alignment with the said stop head and with one of the said end stops of the rotatable plate, the said boss being adapted to support the said rotatable plate with its end stop in operative position against end thrust, means for intermittent rotation of the said rotating plate to put successively into operative position each of the said end stops, means for intermittently lifting the said stop head from the corresponding end stop of the said rotatable plate, and resilient means for returning the said stop head for engagement with the next of the said end stops upon rotating the said rotatable plate during the lifting interval of the said stop head.

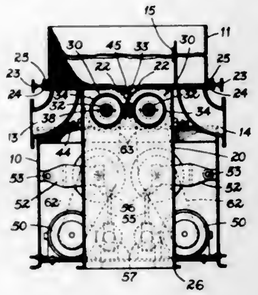
2,669,164
BROACHING MACHINE
Paul A. Ketchpel, West Englewood, N. J., assignor to Ketchpel Engineering Company, West Englewood, N. J., a corporation of New Jersey
Application October 27, 1947, Serial No. 782,269
5 Claims. (Cl. 90—33)

1. In combination in a vertical acting hydraulic power press, an upright tubular housing provided with a finished bore in its lower part, an upper cylinder head closing the upper end of the cylinder, a ram comprising a piston rod extending up through the upper cylinder head and a piston mounted on its lower end for reciprocation in said cylinder, a lower cylinder head closing the cylinder at the lower end of the housing, a source of fluid pressure, fluid pressure supply lines extending from said source to both ends of said cylinder, valve mechanism included in said fluid pressure lines and being mounted on the outside wall of the upright tubular housing for alternatingly admitting fluid under pressure to opposite sides of said piston to reciprocate the piston, said housing having a work table at its upper end provided with an opening therein, a forming bar mounted for reciprocating through the opening and doing useful work, the upper part of said housing being provided with guideways and an elongated aperture in its side walls,



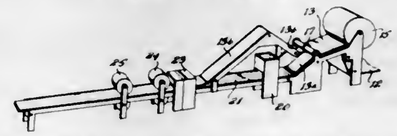
means for connecting and supporting the piston rod and the forming bar in accurate alignment, said means comprising a cross-head with lateral extensions arranged for reciprocation in said guideways and having a valve reversing arm which extends out through the elongated aperture in the housing side wall and operates the valve mechanism at the end of each piston stroke, said source of fluid pressure comprising a reservoir for the fluid, a motor and a pump for circulating the fluid from the reservoir to the ram and returning it thereto, a common base plate for mounting the vertical acting power press and the motor and hydraulic pump, said reservoir comprising a housing on which the motor and pump are mounted and being formed in said base plate.

2,669,165
PAPER MACHINERY
Joseph Baxter, Jr., Franklin, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application July 10, 1950, Serial No. 172,981
10 Claims. (Cl. 92—20)



1. Apparatus for treating a liquid slurry stock comprising a pair of cylindrical brushes, means including a frame supporting said brushes for rotation with the axes thereof in predetermined spaced and parallel relation in substantially the same horizontal plane to locate adjacent surface portions thereof in close relation forming a horizontal nip adapted to receive said stock in vertical flow therethrough, means forming an inlet located substantially directly above and in line with said nip for supplying said stock in direct vertical flow thereto, means controlling said supply flow of stock to said nip to a relatively slow rate of approach flow, drive means effective to rotate said brushes at a relatively high peripheral speed materially greater than said approach flow rate to draw said stock through said nip at a suddenly accelerated rate of flow for effective separation of the solid component of said stock into substantially individual particles and to discharge said separated stock with high centrifugal force substantially directly downwards, and means forming a chamber open to atmosphere below said nip to provide an open space for receiving said freely discharged stock from said nip.

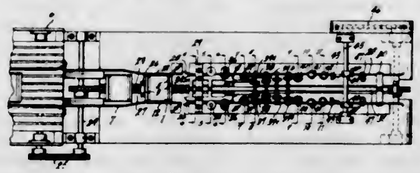
2,669,166
METHOD OF MAKING ASBESTOS-CEMENT SHEETS
Charles Carter Smith, Mobile, Ala., assignor to The Ruberoid Co., New York, N. Y., a corporation of New Jersey
Application August 16, 1949, Serial No. 110,564
1 Claim. (Cl. 92—40)



A method of making a laminated product which consists in continuously forming and longitudinally feeding a moist web of unset asbestos-cement, continuously slitting the web longitudinally as it is fed to form two homogeneous sheets of substantially uniform width, continuously and simultaneously feeding the two sheets longitudinally one above the other at the same rate of speed, directing the upper of the two sheets laterally at an angle into parallelism with the other, depositing a dry mix of hydraulic cement and asbestos fiber upon the upper surface of the under sheet while the cement of the sheet is still moist and unset before it is brought into contact with the upper sheet, superposing the upper sheet on said faced surface of the lower sheet, and pressing the composite product.

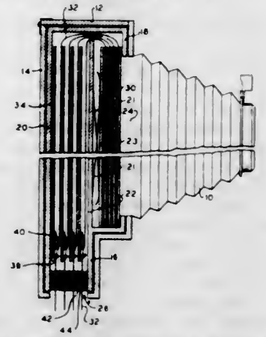
2,669,167
MACHINE FOR ERECTING DOUBLE SIDE WALLS ON DOUBLE WALLED CARTONS
John D. Behl, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich., a corporation of Michigan
Application December 3, 1952, Serial No. 323,816
16 Claims. (Cl. 93—49)

15. A machine for folding and erecting inner side walls on a partially erected carton having erected end walls and outer side walls with inner side wall forming flaps extending as continuations above said outer side walls comprising, a conveyor having flights adapted to advance the cartons in endwise fashion, means laterally retaining said outer side walls along said conveyor, a support mounted over said conveyor at the infeed end thereof in spaced relation above said end walls and acting to laterally support the inner sides of said side wall flaps, first folding means mounted above said support and transversely engageable with opposite sides of said side flaps and overlapped to bend the upper ends of said side flaps inwardly into spacer flaps, side flap folding means mounted behind said first folding means and engageable with said side flaps to fold the same inwardly over the sides of said support, narrow extensions on the trailing end of said support, means positioned over said extensions and engageable with the outsides of the side flaps to bend said side flaps over said extensions, other means positioned behind said last means and engageable with the inwardly folded side



flaps at points spaced longitudinally along the conveyor to progressively depress said side flaps and press the swinging ends thereof between said end walls, crimping means positioned behind said other means to crimp the inwardly folded portions of said side flaps against the unfolded portions thereof, top folding means positioned behind said other folding means and in the path of the fold in said side flaps to fold the subadjacent portions of the side flaps inwardly into top spacer walls, and shoes rotatable over said side walls and movable vertically in timed relationship with said conveyor to the level of the tops of said outer walls to bend said top spacer walls to horizontal position.

2,669,168
MAGAZINE STRUCTURE FOR SELF-PROCESSING FILM
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Original application November 5, 1946, Serial No. 707,966, now Patent No. 2,495,111, dated January 17, 1950. Divided and this application December 21, 1949, Serial No. 134,154
8 Claims. (Cl. 95—13)



1. A magazine for holding and processing a plurality of photographic film assemblages, each said assemblage comprising a container holding a liquid composition, a print-receiving layer and a photosensitive layer, said magazine comprising a front compartment for holding a stack of the photosensitive layers of said assemblage, means defining an exposure opening in said front com-

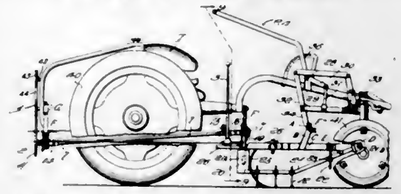
partment, a rear compartment for holding a stack of the print-receiving layers of said assemblages, said front and rear compartments being separated by a common wall, said common wall providing passages for the leaders connecting the photosensitive layers and the print-receiving layers of said assemblages, the walls of one of said front and rear compartments providing a discharge opening through which each assemblage may be withdrawn in a predetermined path, a plurality of members relatively rigidly mounted within said discharge opening, pairs of said members defining withdrawal openings, a withdrawal opening being provided for each of the assemblages, each pair of members having the members thereof spaced apart by a distance less than the thickness of the container portion of the assemblage when the latter is assembled for processing and being capable of applying a sufficient compression to said assemblage to spread liquid released from the container within said assemblage upon movement of said assemblage through said opening, and a third compartment connecting with said discharge opening of said front and rear compartments for receiving the assemblages as they are withdrawn through said opening and for storing the assemblages while the released liquid processes the photosensitive layer of each of said assemblages, said third compartment being in light-tight association with said front and rear compartments and having a light-tight withdrawal passage through which the assemblages may be withdrawn.

2,669,169
INVERTOSCOPE FOR PHOTOGRAPHIC CAMERAS
Ludwig Meditz, New York, N. Y.
Application February 19, 1951, Serial No. 211,679
2 Claims. (Cl. 95—44)



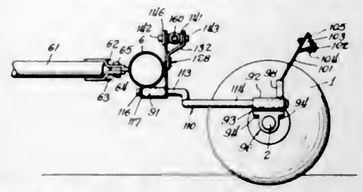
1. An invertoscope for cameras having a walled hood through which an image focused on a ground glass screen within the camera can be viewed, which comprises a pair of parallel barrels each having an eye piece and mounted therein inverting and magnifying lenses, a pair of straps each having one end tightly wound about a said barrel and the other projecting away from the barrel at a convexly arched path, curled tails formed on the projected ends of said straps, a shouldered bolt about which said tails are coiled, a finger nut for said bolt, a bracket including a depending tail secured on said bolt by said nut, a central plate, and a pair of ears extending transverse the plate, a trio of adjustable length tubes each having a flattened end, a pair of said ends being co-pivoted to said plate and the other being pivoted between said ears, flattened portions at the other ends of the tubes, and a bracket pivotally secured to the said other end of each tube, each bracket including a pair of ears between which the tube is pivoted, a pair of walls transverse the ears and adapted to embrace the edge of a side or top wall of the hood, and a set screw for securing the bracket to the hood wall.

2,669,170
POWER-ACTUATED HOEING EQUIPMENT
John D. Sauder, Oyster Point, Pa.
Application January 9, 1950, Serial No. 137,532
12 Claims. (Cl. 97—46.33)



1. A power driven hoeing device comprising a frame structure, a power driving shaft having a V-belt wheel thereon journalled in said frame structure and engaged and driven by a belt, a sector having angular sweep motion journalled in said frame structure in substantially coplanar relation to said V-belt wheel and operative to establish driven relation with the belt in said V-belt wheel, a pair of vertically pivoted beams carried by said frame structure, hoeing devices supported by said beams, means for shifting said sector into driving relation to the belt of said V-belt wheel, and means driven by said sector for imparting transverse displacement to said beams in proportion to the angular sweep of said sector.

2,669,171
DISK TILLER
Walter H. Silver and John I. Cantral, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application October 9, 1948, Serial No. 53,716
14 Claims. (Cl. 97—53)

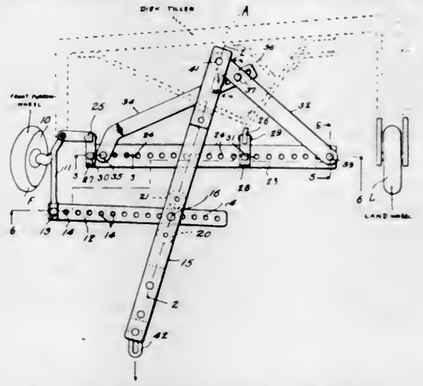


4. A disk tiller comprising a frame including a diagonally extending frame member, a plurality of disk gangs disposed in axially aligned relation with the front end portion of one disk gang disposed adjacent the rear portion of the next adjacent disk gang, arm members extending generally longitudinally of said frame member, each hingedly connected at its forward end to said frame member for generally up and down swinging, means hingedly connecting the rear portions of said arm members with the end portions of said gangs, said arm members being rigid, whereby draft may be transmitted from said frame member to said gangs, and means movably interconnecting the arm members that are connected with contiguous end portions of adjacent gangs whereby the adjacent ends of each pair of adjacent gangs may rise or fall relative to the opposite end portions thereof.

2,669,172
ONE-WAY DISK TILLER HITCH
Clark L. Lokken, Jamestown, N. Dak.
Application December 30, 1949, Serial No. 136,066
1 Claim. (Cl. 97—180)

For use with a disk tiller having a frame, a steerable front furrow wheel axle carried by said

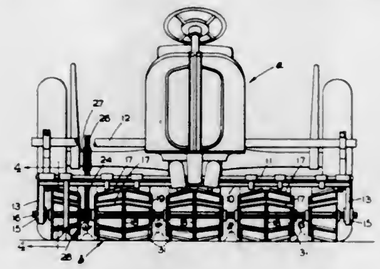
frame and a forwardly extending steering arm rigidly secured to said axle, a tractor hitch comprising a steering bar adapted to extend transversely across the front of the tiller, means on one end of said steering bar for pivotally securing said steering bar to the steering arm of said tiller, a draft bar comprising a pair of spaced strap members arranged on opposite sides of said steering bar and arranged transversely with respect thereto, spacers interposed between said strap members, a securing element pivotally connecting said draft bar to the other end of said steering bar, a crossbar arranged in substantially parallel spaced relation behind said steering bar and interposed between said pair of strap members, a pair of links arranged contiguous to said crossbar, securing elements connecting said links to said crossbar, means on the rear end of each of said links for securing said links to the tiller frame, a rearwardly inclined connecting member having one end pivotally connected to said crossbar, a bracing bar



having one end connected to said crossbar and its other end connected to the rear end of said connecting member, said bracing bar and connecting member converging rearwardly of said crossbar, the rear portion of said bracing bar being provided with a plurality of apertures therein for receiving a securing element whereby the connecting member can be secured at different positions along said bracing bar, said connecting member comprising upper and lower spaced links receiving therebetween said bracing bar and said crossbar, the rear portions of said pair of strap members being offset and connected to the rear end of said connecting member, the connection of the draft bar to the connecting member being in offset relation with respect to the connection of the bracing bar and connecting member whereby a pushing force will be produced upon the crossbar as a pulling action is applied to said draft bar, said draft bar slidably straddling said crossbar whereby the draft bar will be braced against independent upward and downward movement relative to the associated parts of the hitch.

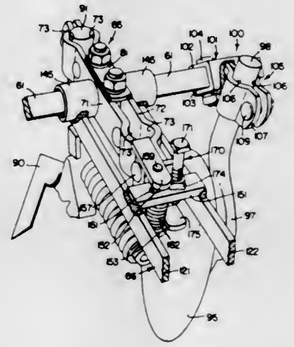
2,669,173
ROTARY CULTIVATOR
Joe Severance, Eden, Idaho, assignor of one-half to Robert C. Chattin, Boise, Idaho
Application November 14, 1947, Serial No. 786,031
1 Claim. (Cl. 97—215)

A mulching device, comprising a plurality of mulching sets carried upon a rotatable common shaft, said mulching sets being spaced along said shaft to straddle a series of crop rows, each said set being of sufficient length to span the width between adjacent crop rows and each including a plurality of blades secured to the peripheries of an inner and two outer disks, said inner disk having a larger diameter than said outer disks to dispose said blades at an oblique angle to



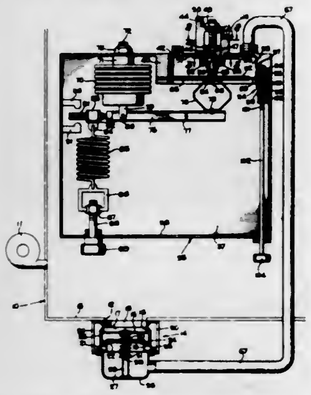
said shaft, the peripheries of said disks being beveled and said blades being arranged to lie flat therealong so as to incline from the inner disk toward the outer disks, each said outer disk being adjustably mounted upon said shaft for movement relative thereto.

2,669,174
AGRICULTURAL IMPLEMENT
William P. Oehler, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application February 9, 1948, Serial No. 7,042
1 Claim. (Cl. 97—237)



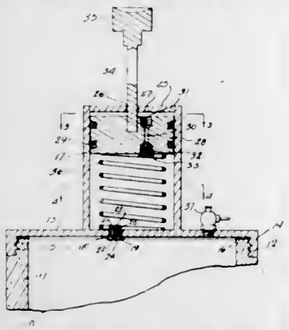
In an agricultural implement, a support in the form of a crossbar, a relatively fixed elongated unit secured to said crossbar with the latter extending through a portion of said unit, a frame pivotally connected with said crossbar and including a pair of bars disposed on respective sides of said unit with each bar having a pivotal connection with said crossbar, a transverse abutment member fixed to said bars adjacent one end of said unit, a pair of vertically spaced arms fixed to and extending from said end of said unit generally in alignment with said unit, said abutment member lying between said arms and having an opening in vertical alignment with said arms, a vertical pin secured to said arms and extending through said opening, said pin being removable, and a spring disposed about said pin between said transverse abutment member and one of said arms.

2,669,175
CABIN PRESSURE CONTROL
Richard A. Fischer, Los Angeles, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application May 23, 1950, Serial No. 163,769
26 Claims. (Cl. 98—1.5)



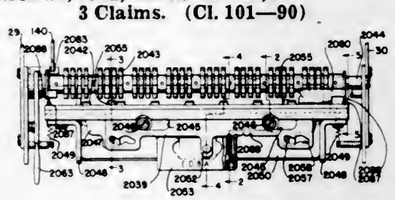
1. In a pressure control mechanism: walls defining a control pressure chamber having an inlet passage and an outlet passage; means for controlling the pressure in said control chamber comprising a differential pressure sensitive element subjected on one side to pressure in said control chamber and adapted to control one of said passages; a connection between the other side of said element and the control chamber, said connection including a relatively large capacity portion interposed therein; means forming a restriction between said large capacity portion of the connection and the control chamber; and an absolute pressure responsive device subjected to the same pressure as said other side of said element and adapted to cooperate with said differential pressure responsive element in controlling said one passage.

2,669,176
AIR PUMP FOR FOOD CONTAINERS
Vernon B. Lazerus, Galveston, Tex.
Application June 22, 1951, Serial No. 232,973
1 Claim. (Cl. 99—270)



A combination container and pump structure formed for selected reversal of component parts thereof to provide each of a vacuum producer and an air compressor, said structure comprising a hollow receptacle body; a cover therefore; a pump cylinder attached at one end to the cover and continuously vented to atmosphere at its other end; a check valve assembly mounted in the cover in the area covered by the pump cylinder to control passage of air between the interior of the receptacle body and the interior of the cylinder at the first-named end of the cylinder, said check valve assembly having a connection to the cover permitting end for end reversal of the check valve assembly in place; a piston working in the cylinder between the ends thereof and having an aperture extending from one to the other end thereof, the opposite ends of said aperture being formed with threaded counterbores; and a check valve assembly mounted in said piston to control passage of air between the interior of the vented end of the cylinder and said first-named end thereof, said second-named check valve assembly including an externally screw-threaded, cylindrical housing having end walls each provided with an aperture and having a cavity greater in diameter than either of the apertures of the end walls, a valve ball disposed in the cavity in seating relationship to the aperture of one of said end walls, and a spring compressed between the valve ball and the other end wall to normally bias the valve ball to a seated position, said housing being threadable into either of said counterbores for reversal of said second check valve assembly in said piston.

2,669,177
PRINTING MECHANISM
Warren P. Loudon, Tucson, Ariz., assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Original application September 16, 1949, Serial No. 116,004. Divided and this application March 22, 1951, Serial No. 216,919
3 Claims. (Cl. 101—90)

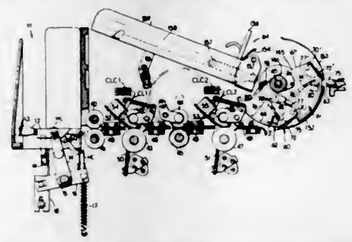


1. In a machine of the class described, the combination of a plurality of interspersed sets of printing elements, a printing hammer comprising a manually operable, rockable frame and a plurality of platens arranged to take an impression from one of said sets of printing elements during each printing operation, means to shift the printing platens in the frame to aline the printing platens with a set of printing elements selected for a printing operation, an insertable record material receptacle to receive insertable record material between the platens and the printing elements, and a plurality of selectable stops in the receptacle selected by the means to shift the platens to arrest the insertable record material in the receptacle to aline selected areas of the record material with the printing elements.

2,669,178
RECORD CONTROLLED PRINTING MEANS
Arnold B. Crowell, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application August 13, 1947, Serial No. 768,373. Divided and this application August 12, 1949, Serial No. 109,995
4 Claims. (Cl. 101—93)

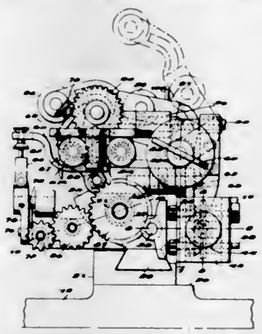
1. In an interpreter for printing on master and detail control records, information stored

by coded sensible indicia on the master records; sensing means to sense the coded indicia on the master records; printing means for printing on the records; cyclical means to feed a series of master and detail records through said sensing means and said printing means in sequence, with each master record followed by one or more detail records; means including a set up mechanism controlled by said sensing means for controlling the operation of said printing means;



means controlled by said sensing means to store in said set up mechanism, information read from said master records; means to restore said set up mechanism to a blank condition; and means responsive to control indicia on one class of said records to control said restoring means, so that said set up mechanism is restored to a blank condition before storage therein of information from each new master record and retains its settings in the intervals between master records.

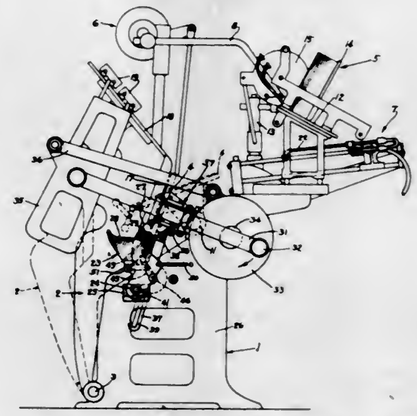
2,669,179
INKING MECHANISM FOR CYLINDER PRINTING PRESSES
John Haspert, Tampa, Fla.
Application February 12, 1948, Serial No. 7,788
9 Claims. (Cl. 101—352)



2. An inking mechanism unit for roll type printing presses comprising a housing providing a roll compartment and an ink reservoir in communication therewith, a fountain roll rotatably mounted in said housing and extending into said roll compartment, a doctor blade bearing on the surface of said fountain roll, the outer terminal edge of said doctor blade being divided into a plurality of sections by notches, the inner edge of said doctor blade being looped, a rod provided with a longitudinal groove for receiving the looped inner edge of said doctor blade, means securing said doctor blade in the groove of said rod, and means mounted on said housing for rocking said rod to vary the pressure of said blade against said roll.

5. An inking mechanism for roll type printing presses comprising a housing provided with an ink reservoir, a plurality of rolls rotatably mounted in said housing on spaced apart axes, a roll carriage reciprocably mounted on said housing and movable relative thereto in a direction normal to the axes of said spaced rolls, a plurality of rolls mounted in said carriage and adapted for coaction with said first named rolls, manually controlled means for adjustably positioning said roll carriage to move the rolls carried thereby toward and away from said first mentioned rolls, a vibrator roll mounted in said carriage, means for continuously moving the vibrator roll axially and parallel to the other of said rolls, a pair of pivotal links mounted on said carriage for holding said vibrator roll in coacting engagement with said other rolls carried thereby, and adjusting means for moving said links relative to said carriage.

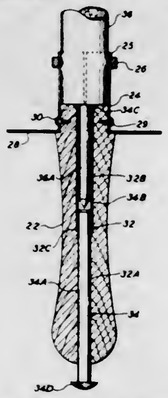
2,669,180
DELAYED ACTION ATTACHMENT FOR PRINTING PRESS GRIPPERS
Clarence B. Kliever, Elk River, Minn.
Application January 30, 1950, Serial No. 141,270
4 Claims. (Cl. 101—408)



1. The combination with a platen printing press comprising a supporting frame, a platen, means including a crank wheel and a side arm for oscillating the platen between receiving and printing positions, grippers mounted for pivotal movement on the platen and adapted to engage and retain a sheet on the platen, when the platen is in printing position, and operating means for the grippers, said operating means permitting the grippers to open and release the sheet immediately after the sheet has received an impression, of an attachment for retaining the grippers in gripping engagement with the printed sheet during movement of the platen from its closed printing position to its normal open position, said attachment comprising a composite cam unit mounted for pivotal movement on the machine frame, said cam unit comprising an elongated arcuately formed cam face, the operating means for the grippers including an arm mounted for pivotal movement with the grippers and having a cam follower at its outer swingable end positioned to be engaged by said elongated cam face, whereby oscillation of said cam unit will operate said grippers and retain them in gripping engagement with the printed sheet on the platen during movement of the platen from its closed printing position to its normal open position, said cam unit comprising a second cam face located in a plane disposed in laterally spaced relation

to said elongated arcuately formed cam face, said second cam face comprising dual cam surfaces disposed in end-to-end relation, and a cam follower mounted on the side arm of the press and engageable with said dual cam surfaces to control the swinging movement of the grippers between open and closed positions of the platen, one of said dual cam surfaces swinging the platen and grippers into open position, and the other of said aligned cam faces controlling the return movement of the platen to open position.

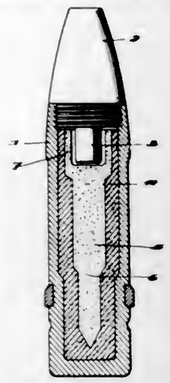
2,669,181
FUSEE HOLDER
Lowell Cooper, Pasadena, and Barron L. McNulty, Altadena, Calif.
Application April 21, 1952, Serial No. 283,452
3 Claims. (Cl. 102—37.4)



1. A holder for a fusee comprising a handle shaped to form a handgrip, a tubular split collet affixed to and extending from an end of the handle and adapted to receive the base portion of a fusee, a constricting ring longitudinally displaceable along the collet to releasably bind the base of the fusee therein, the handle having an axial bore therethrough, a plunger mounted in the bore and including a tubular section opening into the collet and a protruding end extending exteriorly of the handle at the end thereof opposite the collet, the plunger being adapted to permit ejection of a spent fusee from the collet by displacement of the plunger longitudinally within the bore.

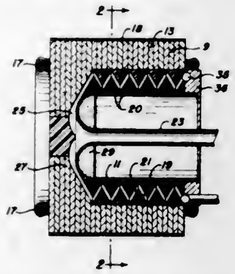
2,669,182
SHATTERING AND INCENDIARY SHELL
Willi Weiss, Vernier-Geneva, Switzerland, assignor to "Brevets Aero-Mecaniques," S. A., Geneva, Switzerland, a society of Switzerland
Application May 26, 1949, Serial No. 95,439
Claims priority, application Luxembourg March 29, 1949
1 Claim. (Cl. 102—66)

A shattering and incendiary shell which comprises, in combination, a hollow shell body, a charge of an explosive disposed in said body in the form of at least one core extending over at least a major portion of the length of the cavity of said body, said explosive being brisant such as trinitroltoluol, and having an incendiary charge disposed around said explosive core in the space existing between said core and the inner side wall of said body, said incendiary charge being constituted of a metal of the group consisting of aluminum, magnesium and iron in powder form, mixed with an oxygen carrier and a binder, said incendiary charge upon detonation forming a large volume of gases which when instantaneously produced gives a blasting effect as well as



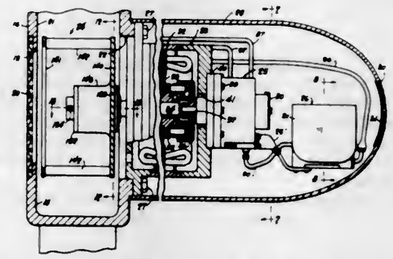
an incendiary action, said incendiary charge adjoining over its inner surface the brisant explosive and in thermic and mechanical contact therewith, whereby the incendiary charge is instantaneously inflamed by the brisant explosive.

2,669,183
ELECTROMAGNETIC FLUID PUMP
Nat H. Godbold, Idaho Falls, Idaho, assignor to the United States of America as represented by the United States Atomic Energy Commission
Application February 27, 1951, Serial No. 212,961
5 Claims. (Cl. 103—1)



1. An electromagnetic fluid pump for generating an impelling pressure on a conducting fluid comprising a magnetic core structure, and a fluid channel; said fluid channel having an inlet and an outlet end, said magnetic core structure comprising a field envelope and a field core, said field core being elongated and of closed geometric configuration in the direction normal to the elongation thereof and being bounded on the outside in the direction of elongation by a plurality of surfaces which alternately diverge and converge with respect to the channel inlet end, said field envelope having a magnetic material shell, winding slots in the magnetic material shell parallel to the elongation thereof, and polyphase electric windings threading the winding slots thereof, said field envelope having on the interior thereof a plurality of composite rings supported in adjacent relation, each of said composite rings being triangular in cross section and being composed of a magnetic material ring juxtaposed with a non-magnetic material ring and being orientated so that the non-magnetic material ring is adjacent a channel portion which converges with respect to the inlet end; said field core being supported internally within said field envelope with the respective opposed surfaces in parallel relation and with a space therebetween to define the fluid channel, means electrically connecting the channel inlet end to the channel outlet end whereby under a condition of polyphase excitation of said winding a rotating magnetic field having radial components of magnetic flux is generated and a greater magnetic flux traverses all the channel portions having a similar inclination and being bounded by magnetic material than the channel portions having the opposite inclination and which are bounded at least in part by non-magnetic material, means for admitting fluid into the channel inlet end and means for exhausting fluid from said fluid channel outlet end.

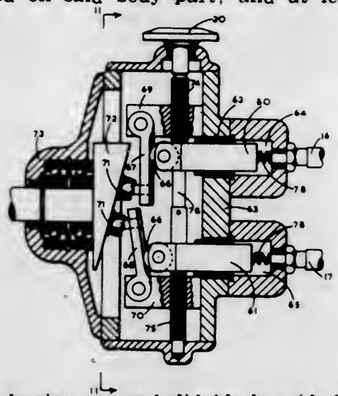
2,669,184
OIL BURNING APPARATUS
Warren H. De Lancey, Springfield, Mass., assignor to Atlantic Development Company, Inc., Springfield, Mass., a corporation of Massachusetts
Application March 31, 1949, Serial No. 84,505
3 Claims. (Cl. 103—4)



1. Apparatus for supplying air and oil to a burner comprising, a positively-acting displacement pump for supplying air, inlet and discharge conduits for said air pump, a pump for supplying oil, means providing fluid communication between the two pumps, whereby sufficient oil may enter said air pump for lubricating the latter, a by-pass conduit from said air discharge conduit to the outside of the pump for relieving the air pressure within such air discharge conduit, an oil-conducting conduit providing fluid communication between said air discharge conduit and the suction side of said oil pump thereby to return oil to said oil pump from said air pump, and a pressure-responsive valve means in said air discharge conduit for blocking off communication between said air discharge conduit and said by-pass and oil-conducting conduits, said valve means being movable to unblock communication between such conduits whenever the air pressure within said air discharge conduit reaches a predetermined value.

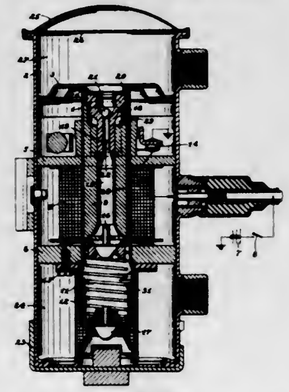
2,669,185
HYDRAULIC IMPELLER OR PUMP
Charles Edward Tallis, Handsworth, Birmingham, England, assignor to Birmingham Tool & Gauge Company Limited, Handsworth, England
Original application August 20, 1951, Serial No. 242,763. Divided and this application March 6, 1953, Serial No. 340,804
6 Claims. (Cl. 103—38)

1. A hydraulic impeller or pump comprising a body part; a swash plate rotatably mounted for driven rotation in said body part; at least one movable support member carried by said body part and adjustable radially with respect to the swash plate; at least one member pivoted to said support member and extending adjacent the face of said swash plate; a shoe carried by said pivoted member and bearing against the face of said swash plate; at least one hydraulic fluid chamber provided on said body part; and at least one



plunger having one end slidable in said chamber whilst the other end abuts said pivoted member, the arrangement being that on adjustment of said support member the shoe of the pivoted member is moved relative to the axis of the swash plate thus varying the degree of pivotal movement of the pivoted member and the point of abutment therewith of the plunger with consequent variation in stroke of the latter.

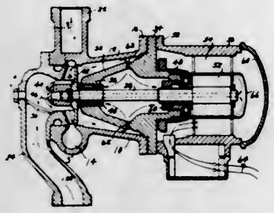
2,669,186
RECIPROCATORY ELECTROMAGNETIC PUMP
Leland C. Parker, Elmira, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware
Application November 28, 1951, Serial No. 258,573
3 Claims. (Cl. 103—53)



1. In a reciprocatory electromagnetic pump, a casing having an inlet chamber in one end and an outlet chamber in the other, a non-magnetic cylinder connecting said chambers, a hollow magnetic plunger slidably mounted therein, means including an electromagnet for reciprocating the plunger, a hollow piston anchored and sealed in the end of the cylinder adjacent the output chamber, extending into the discharge end of the hol-

low bore of the plunger and closely fitting therein with freedom for relative sliding movement, a check valve preventing backward flow from the cylinder and check valves preventing backward flow through the bores of the plunger and the piston.

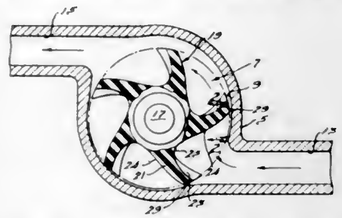
2,669,187
GLANDLESS PUMP AND MOTOR UNIT
Ernest Guyer, Montreal, Quebec, Canada
Application April 27, 1949, Serial No. 89,827
1 Claim. (Cl. 103—87)



A unitary assembled pump and motor unit comprising a pump housing including an inlet pipe and an outlet pipe and a hollow barrel-shaped extension between the pipes, said extension being open at one end, a hollow shaft, a shaft mounting for the shaft, a pump element on the shaft at one end thereof in position to deliver fluids from the intake to the outlet pipe, said hollow barrel extension having a pumping chamber therein surrounding the pumping element, a flange formed at the open end of the extension, a flange on the shaft mounting cooperating with said extension flange, said shaft mounting being hollow and elongated and extending into the extension, a bearing positioned in one end of the shaft mounting adjacent the pump element, a bearing positioned at the opposite end of the shaft mounting exterior of the extension, said flanges being secured together and lying intermediate of the bearings, the hollow shaft forming a fluid passage throughout its length and communicating with the inlet pipe, there being a space surrounding the hollow shaft mounting and inside the extension, said pumping element and said barrel-shaped extension being spaced apart to provide fluid communication from the said pumping chamber to the said space exterior of the hollow shaft mounting, apertures in the hollow shaft mounting permitting fluid communication from the said space exterior of the hollow shaft mounting to the interior thereof, an enclosed motor housing at the opposite end of the shaft, a flange thereon secured to the said flanges, an electric motor having a stator and a rotor in the said motor housing cooperatively associated with the shaft, a fluid tight shield secured to said extension and separating said rotor from said stator, and the said shaft bearing exterior of the extension having a passage therethrough to provide fluid communication from the interior of said shaft mounting to the interior of said shield and hence to the motor end of the hollow shaft.

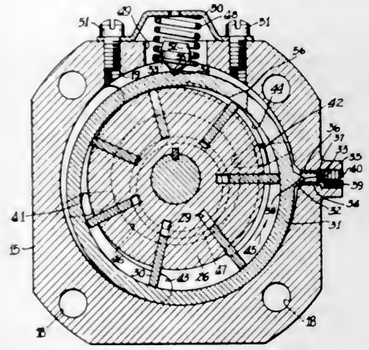
2,669,188
PUMP IMPELLER
Brouwer D. McIntyre, Monroe, Mich., assignor to Patent Development Company, Monroe, Mich., a partnership
Application March 14, 1950, Serial No. 149,477
6 Claims. (Cl. 103—96)

1. A fluid pump including a housing having an annular chamber therein and a fluid inlet and an outlet, an impeller including a hub portion rotatably supported in said chamber and including a plurality of circumferentially spaced resilient blades extending outwardly from said hub portion and directed away from radial lines extending outwardly from the impeller axis of rotation, in the direction of rotation of said impeller, the outer ends of said blades being disposed in a



cylindrical path, the radius of which is less than the radius of the pump chamber measured from the same center, the resiliency of said impeller blades being such that when the impeller is rotating at a predetermined speed and circulating fluid through the chamber, the blades will move toward said radial lines and into substantial sealing engagement with the walls of said housing chamber.

2,669,189
ADJUSTABLE FLUID PUMP
Warren H. De Lancey, Springfield, and Bertram P. Pond, Longmeadow, Mass., and Harry L. Chisholm, Jr., Buffalo, N. Y., assignors, by direct and mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application September 5, 1947, Serial No. 772,292
6 Claims. (Cl. 103—120)



3. In combination in a variable delivery fluid pump, an outer housing providing fluid intake and delivery passages, a rotor in said housing, a modulator ring in said housing surrounding said rotor and presenting an unbroken circular interior surface spaced from the rotor, means on the rotor cooperating with said surface for effecting a pumping action in the rotation of the rotor, a biasing spring normally operating on said modulator ring to move it to maximum eccentricity relation to the rotor, and pivot means on which the modulator is rockable into and out of said eccentric position relative to the rotor, said pivot means including a fulcrum, and means for adjusting said fulcrum into selective positions relative to said rotor on a line transverse to the rotor axis and including a device operable from outside said housing for varying the effective lever distance from said spring to the fulcrum point of the modulator at said pivot means throughout a substantial range at one extreme of which pump pressure is increased and at the other extreme of which pump pressure is decreased at any given speed of the rotor.

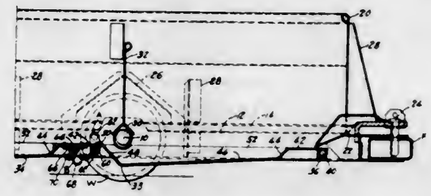
2,669,190
OIL WELL PUMP
Edward J. Mullins, Los Angeles, Calif., assignor to Alfred H. Bakke, Evanston, Ill.
Application September 22, 1950, Serial No. 186,148
5 Claims. (Cl. 103—179)



1. An oil well pump positioned in a casing, said pump comprising a barrel, a pipe extending downwardly from the barrel, said pipe having perforations therein to admit oil, an expandible packer mounted on the pipe below the barrel, said packer engaging the casing when expanded, a standing valve in the lower end of the barrel, a piston reciprocally mounted in the barrel, an upper valve assembly mounted in the upper end of the barrel, said upper valve assembly having fluid ports extending vertically therethrough, and a ball check valve seated in each of said fluid ports, a sucker rod attached to the piston, said sucker rod passing through the upper valve assembly, and a packing gland in said upper valve assembly surrounding the sucker rod, tubing attached to the upper end of said barrel and rising therefrom, said tubing having an elongated slot cut therein above said barrel, and a sleeve surrounding said tubing, said sleeve being movable longitudinally to uncover said slot, said sleeve being attached to the tubing.

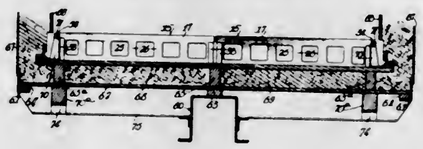
2,669,191
DROP BOTTOM CAR
Robert A. Shields, Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application January 16, 1951, Serial No. 206,145
14 Claims. (Cl. 105—253)

1. In a drop bottom car, the combination of a bottom door normally closed to retain lading in the car and swingable to an open position for discharge of lading, a pair of hinge rods extending transversely of the car and about which said door may swing between closed and open positions, and a pair of strut means connected to each hinge rod and pivotally mounted on the car adjacent the ends of the hinge rods, one pair of said strut means being pivoted on the car below the door



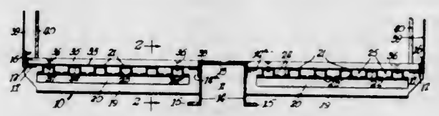
and the other being pivoted on the car above the door.

2,669,192
FLOOR RACK CONSTRUCTION FOR REFRIGERATOR CARS
Howard E. Osborn, Michigan City, Ind.
Application July 21, 1950, Serial No. 175,217
19 Claims. (Cl. 105—375)



1. A floor rack construction for refrigerator cars embodying therein side supports for extending longitudinally of the floor of the car and end supports for extending transversely of said floor, spaced bottom beams parallel with said side supports and secured at their ends to said end supports, and spaced top beams at least certain ones of which extend at an angle to and are engaged upon and are fixed to said side supports and to said bottom beams respectively.

2,669,193
FLOOR CONSTRUCTION FOR RAILWAY CARS
Howard E. Osborn, Michigan City, Ind.
Application July 21, 1950, Serial No. 175,219
8 Claims. (Cl. 105—422)



1. In combination with the underframing of a railway freight car including side and center sills and cross bearers extending between the center sill and the side sills, upper and lower courses of downwardly opening laterally spaced channels, in the space between said center sill and the side sills, means for supporting the channels in the lower course from said cross bearers, means for supporting the channels in the upper course from said side and center sills, the channels in the lower course extending longitudinally of the car and the channels in the upper course extending transversely of the car and engaging upon those in the lower course, wood planking in the channels between those beams in the upper course and coacting therewith in forming a flush floor surface portion at each side of the center

sill, means for securing said planking and channels in the upper course to the channels in the lower course, and means covering the top surface of the center sill between said floor surface portions and coacting with the latter in completing the active floor surface for the car.

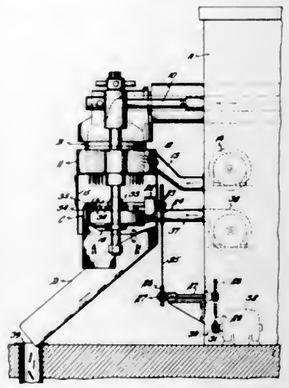
2,669,194
ICE-CREAM SCOOP
Alfred G. Brown, Minneapolis, Minn.
Application August 9, 1951, Serial No. 241,109
1 Claim. (Cl. 107—48)



A scoop for ice cream and the like comprising an open bowl having a semi-spherical bottom and having an elongated handle extending laterally therefrom, said handle being U-shaped in cross-section and providing an elongated cavity having its open side facing upwardly, said cavity having one end in communication with the interior of said bowl, the inner surface of the bowl having an elongated recess in its bottom surface longitudinally aligned with the cavity in said handle, an elongated member having its intermediate portion received in said cavity and provided at one end with an arcuately formed ejector finger normally seated against the bottom of the recess in the bottom of the bowl with its entire inner surface substantially flush with the inner surface of said bowl, said elongated member being T-shaped in cross-section and having an enlargement at its intermediate portion provided with a downwardly facing semi-circular bearing portion, a support in the bottom of the elongated recess in the handle for supporting said member, said support having a concave surface against which the semi-circular bearing portion of said member is seated, means for pivotally securing said member to said support, the open end portion of said member curving upwardly and extending rearwardly in the direction of the outer end of the handle and normally disposed in spaced parallel relation to the outer end portion of the handle, thereby to provide a finger-engaging portion for actuating the ejecting finger to eject the contents from the scoop, and the portion of said member between its pivotal connection with the handle and said bowl being normally disposed in the plane in the upper edges of the handle side walls, and providing a finger-engaging portion adapted to be engaged by a finger of the user's hand to facilitate forcing the scoop into a mass of ice cream to load it.

2,669,195
COOLING-DRYING AND CUTTING COMBINATION FOR MACARONI MACHINES AND AN IMPROVED METHOD OF MAKING SQUARE-CUT MACARONI UNITS
Joseph Pellegrino, Andover, Mass., assignor to Anthony William Deller
Application April 22, 1949, Serial No. 89,108
7 Claims. (Cl. 107—54)

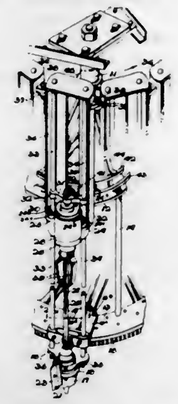
3. In a machine for making cut and dried tubular macaroni units, the combination comprising an extrusion die for producing a plurality of tubular macaroni filaments, an air cooling-drying chamber located immediately beneath said extrusion die to direct controlled currents of cooling-drying air on freshly extruded tubular macaroni filaments to cool, dry and harden the same to form a light crust on the outside of said tubular macaroni filaments, a cutting head located at a substantial distance below said die, a plurality of apertures provided in said cutting head, each of said apertures capable of passing a plurality of tubular macaroni filaments, an annular hollow casing surrounding said cutting head and provided with a series of air apertures to blow directed and controlled air to pass upwardly across said tubular macaroni filaments to further cool and dry said filaments firm enough to take cutting without cracking, sticking, or closing the ends, and a cutter blade rotatably mounted in said cutting head for cutting said cooled-dried filaments into a plurality of tubular macaroni units without any substantial deformation from a circular cross section so that the interior of said units is freely open to air while being manufactured, packed, and stored.



4. An improved method of producing cut and dried macaroni units which comprises extruding doughy macaroni material in an extrusion zone to produce a plurality of extruded tubular macaroni filaments, subjecting said tubular macaroni filaments to cooling-drying air to cool and dry the outer surface and the tubular interior of said filaments and to form a light crust on the outside of said tubular macaroni filaments firm enough to take cutting without cracking, sticking, or closing the cut ends of the tubular filaments, moving said extruded tubular macaroni filaments a substantial distance from said extrusion zone while continuing to subject said filaments to cooling-drying air to fully harden the outside of said crusted tubular macaroni filaments, and cutting at a substantial distance from the extrusion zone said hardened tubular macaroni filaments across the same to produce cut and dried tubular macaroni units.

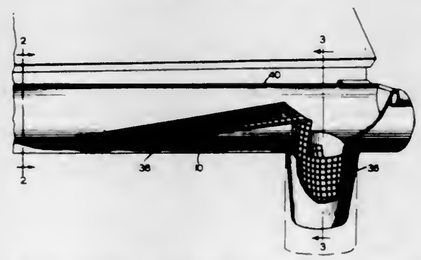
2,669,196
DEVICE FOR MAINTAINING ALIGNMENT BETWEEN MOLDS AND COOPERATING ROTATING CORES
Albert A. Heyman, Baltimore, Md., assignor to The Maryland Baking Company, Baltimore, Md., a corporation of Maryland
Application January 25, 1952, Serial No. 268,293
7 Claims. (Cl. 107—58)

1. In a machine having a hollow mold and a rotatable spinner member adapted to coact with the interior of said mold to form hollow articles, said member being mounted on an axially reciprocable shaft, means for maintaining substantial alignment of said mold and spinner member, said means comprising a cap connected to said member for movement axially therewith, said shaft and member being rotatable relative to said cap, and abutment means between said cap and said mold for engaging said cap to



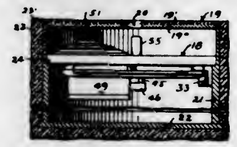
resist radial displacement of the spinner member relative to the mold.

2,669,197
GUTTER STRAINER
Tusten Van Duzer, Warwick, N. Y.
Application February 19, 1951, Serial No. 211,658
3 Claims. (Cl. 108—30)



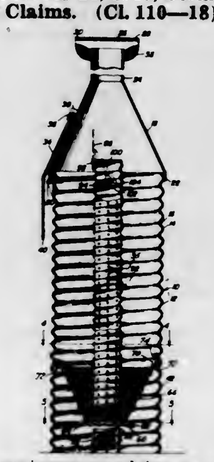
1. In combination with a gutter having a downspout, a one-piece strainer including an inclined tapered foraminous portion and a depending flexible end portion, said inclined portion resting in the gutter and spaced below the top thereof and to one side of said downspout, the sides of said member being provided with reinforcing means, and said depending end portion yieldably engaging the wall of the downspout so as to maintain the strainer in a fixed position.

2,669,198
FLOOR SAFE
Rex H. Campbell, Oakland, Calif., assignor, by direct and mesne assignments, of one-half to Walter P. Ross and one-half to Robert Q. Bramlet, both of Oakland, Calif.
Application December 26, 1947, Serial No. 793,773
5 Claims. (Cl. 109—59)



1. In a safe or vault, a body providing a receptacle having an access opening defined by a circular jamb portion providing an outwardly facing door seat interiorly of the receptacle, fixed retaining lugs extending into the opening from its side and inwardly of the seat, a rotary door for disposal against said seat and having retaining lugs extending from it and arranged for simultaneous door-retaining disposal inwardly of corresponding first lugs in close adjacency thereto, a spring-pressed latch bolt reciprocably carried by the door structure and normally cooperative between the door and a said jamb lug for locking the retained door against a freeing rotation thereof with respect to the jamb lugs, a bolt-withdrawing actuator reciprocably mounted on the door and being disposed on the innermost side of the bolt, and a mechanism normally operative from the outer door side for operatively actuating said actuator solely by an authorized person, inward displacement of the actuator being operative to disengage it from the bolt whereby the bolt will remain in locking engagement with the receptacle.

2,669,199
INCINERATOR WITH DAMPER CONTROLLED INTERNAL FLUE
Virgil B. Remore, Cummings, Calif.
Application October 14, 1949, Serial No. 121,348
2 Claims. (Cl. 110—18)

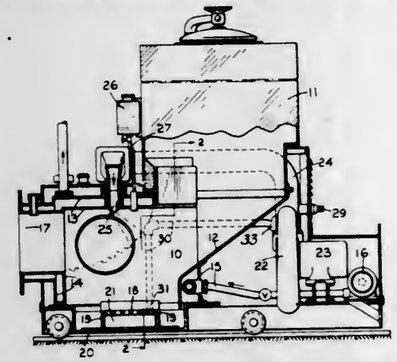


1. An incinerator comprising a vertical cylindrical casing having an air inlet in its lower portion and an outlet in its upper portion for the products of combustion, a grate in said lower portion of the casing, a horizontal, manually operable shaft journaled diametrically in an upper portion of the casing, a perforated, vertical flue, open at its ends, journaled on said shaft and depending therefrom in the casing in spaced, concentric relation thereto and communicating therewith adjacent the grate and the outlet at its lower and upper ends respectively, a damper hingedly mounted on the flue for closing the upper end thereof, and means operatively connecting the damper to the shaft for actuation thereby.

2,669,200
SOLID FUEL COMBUSTION APPARATUS
Ernest Lambert Tinley, Lower Penn, near Wolverhampton, and Frederick Arthur Driver, Penn Wolverhampton, England, assignors to Joshua Bigwood and Son Limited, Wolverhampton, England, a British company
Application October 4, 1951, Serial No. 249,673
7 Claims. (Cl. 110—29)

1. In solid fuel combustion apparatus comprising a combustion chamber, means for con-

tinuously feeding fuel thereto from above at one end so as to form a bank of fuel extending across the chamber to the opposite end and providing an inclined surface, means for directing air under pressure from above on to said inclined surface, and a main air supply for supplying air under pressure to said air-directing means; means for promoting a slow rate of combustion when



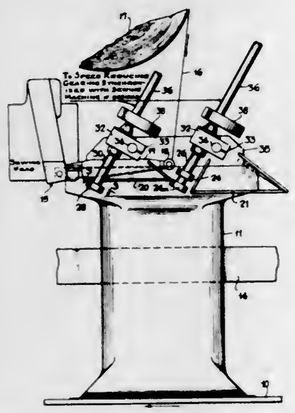
the main air supply is shut off comprising an auxiliary air supply and automatic means for controlling said auxiliary air supply so that auxiliary air is only admitted when the main air supply is shut off, said automatic means being operatively connected with the main air supply so as to be actuated by the stopping and starting of the main air supply.

2,669,201

APPARATUS FOR CLOSING PAPER BAGS

William R. Peterson and William R. Penrod, Oswego, N. Y., assignors to St. Regis Paper Company, New York, N. Y., a corporation of New York

Application November 3, 1950, Serial No. 193,822
10 Claims. (Cl. 112—11)



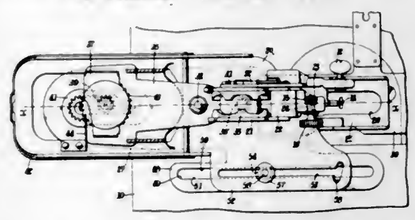
1. In bag closing apparatus, the combination comprising conveying means for conveying filled bags in succession with upper wall closure portions thereof in opposed upstanding positions generally parallel to the conveyor path, a pair of opposed rotatable cam-shaped members adjacent the closing apparatus and above the conveying means between which said opposed upper wall portions pass, while the raised surface portions of said cam-shaped members respectively in their normal operation intermittently and frictionally engage said wall portions, and means for supporting and rotating said members in opposite directions and about axes positioned at an angle to the vertical such that said raised surface portions move upwardly when engaging the bag walls and whereby the slack in said upper wall portions is lifted by reason of said frictional intermittent engagements.

2,669,202

WORK-JOGGING ATTACHMENT FOR SEWING MACHINES

John P. Enos, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application July 5, 1951, Serial No. 235,287
8 Claims. (Cl. 112—77)



1. In a work-jogging attachment for a sewing machine having a reciprocatory needle, an attachment frame having a longitudinal centerline which intersects the needle path of reciprocation, a work-engaging presser-foot and a presser-foot shank, mechanism carried by said frame and actuated by said sewing machine for imparting movements in a direction crosswise of said longitudinal centerline to a point on said presser-foot shank which is spaced from said presser-foot substantially along said longitudinal centerline, a bight controlling connection between said frame and said shank comprising opposed rectilinear guiding surfaces formed on said presser-shank substantially parallel to said attachment centerline, a block supported on said attachment frame and arranged to extend between said guiding surfaces, and a clamp effective to secure said block to said frame on a line which intersects the needle path and is perpendicular to said guiding surfaces.

2,669,203

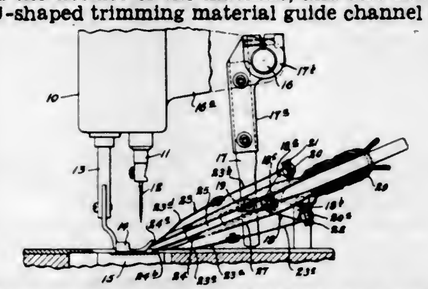
SEWING-MACHINE ATTACHMENT FOR PRODUCING COMBINED EDGE-BINDING AND DOUBLE-RUFFLED TRIMMING

Arnold J. Hiltbrunner, Westwood, N. J., and Charles M. Hiltbrunner, Nanuet, N. Y., assignors to National Sure-Fit Quilting Company, Inc., New York, N. Y., a corporation of New York

Application May 23, 1949, Serial No. 94,908
4 Claims. (Cl. 112—134)

1. A binding and ruffling attachment for sewing machines provided with conventional needles comprising a ruffling blade lever, means for mounting said lever on a ruffling shaft of a ruffling sewing machine to oscillate said lever toward and away from the needles, a pair of ruffling blades mounted on said lever for reciprocal movement conjointly toward and away from a common plane and adapted during the machine stitching operation for engaging the opposite edges of a folded strip of trimming material to simultaneously ruffle such opposite edges of the folded trimming strip during such stitching operation, a guiding element completely U-shaped in cross-section having spaced sides and

provided with terminal ends forming positive guides for said ruffling blades, said guiding element being provided between its sides with an intermediate straight channel to guide the edge of a quilt into position between the feed dogs and the needles of the machine, and also having a U-shaped trimming material guide channel ex-



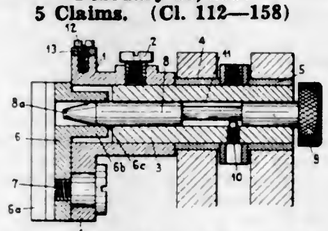
tending to opposite sides of said straight quilt-edge guide channel for guiding each of two folds of a folded trimming strip and causing one of said folds to contact with one face of said quilt edge and the other fold to contact with an opposite surface of the edge of the quilt for ruffling and sewing said opposite folds of the trimming strip to the edge of the quilt.

2,669,204

SEWING MACHINE WITH ZIGZAG ATTACHMENT

Emil Urscheler, Dietikon, Switzerland

Application February 21, 1951, Serial No. 212,072
Claims priority, application Switzerland February 25, 1950
5 Claims. (Cl. 112—158)



1. In a sewing machine, a needle bar pivoted on the machine to oscillate about a horizontal axis, a forked lever pivotally mounted on the machine remote from said needle bar and on an axis parallel to the pivot axis of said needle bar, a slide block pivotally mounted on said forked lever, a guide member slidable in said slide block, means connecting said needle bar with said guide member for oscillation therewith as the forked lever oscillates, a main drive shaft on said machine, a cam fixed on said drive shaft and engaged with said forked lever, and an adjustment means on said forked lever and engaged with said slide block, comprising an element fixed on said slide block, and a manually adjustable control member extended slidably through said forked lever and engaged with said element for holding said slide block in a desired fixed position relative to its pivotal mounting on said forked lever.

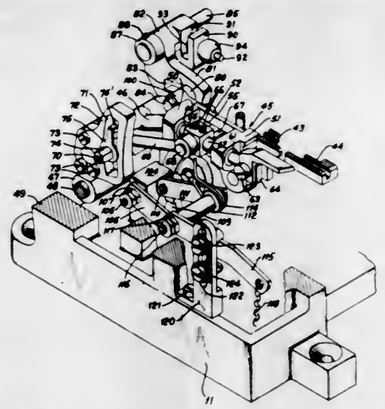
2,669,205

WORK FEEDING MECHANISM FOR SEWING MACHINES

Robert A. Hayes, Franklin Park, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois

Application December 19, 1951, Serial No. 262,407
8 Claims. (Cl. 112—209)

1. In a sewing machine having a rotary drive shaft and stitch-forming devices driven therefrom, the combination of work-feeding means comprising a plurality of feed dogs, first connections from said shaft for simultaneously imparting lifting and lowering movements to said feed dogs, second connections from said shaft for imparting feed and return movements to said feed dogs, a feed rocker common to said first and second connections, said second connections including a device rockable in response to rotation of said shaft, said feed rocker and device being



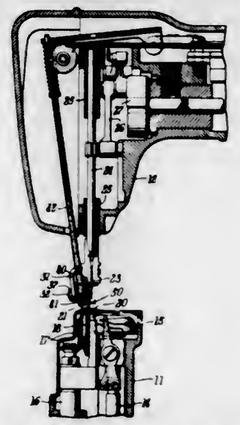
rockable about different axes, and means connecting said device with said feed rocker and separately connecting said feed rocker with each of said feed dogs, said connecting means enabling different feed and return movements to be imparted to the several feed dogs, and means interposed in the connections between said shafts and said feed rocker operable at will during the operation of the machine for varying the extent of movement of said feed rocker.

2,669,206

NEEDLE STABILIZER FOR SEWING MACHINES

Berthold P. Pinkvoss, Stratford, and Stanley J. Ketterer, Bridgeport, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

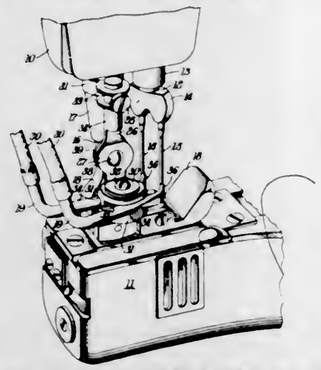
Application December 15, 1951, Serial No. 261,778
10 Claims. (Cl. 112—214)



1. A needle stabilizer for a sewing machine having a presser-mechanism including a presser-

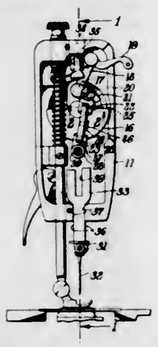
wheel and means supporting said presser-wheel adjacent the path of said needle, comprising a flexible needle deflecting disk adapted to be carried by said presser-supporting means, a rim portion on said disk formed to extend in spaced relation to said presser-wheel and in the path of said needle.

2,669,207
NEEDLE-COOLING AIR NOZZLE SUPPORTING MEANS
Reynold Happe, Pittstown, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application May 23, 1951, Serial No. 227,821
2 Claims. (Cl. 112—218)



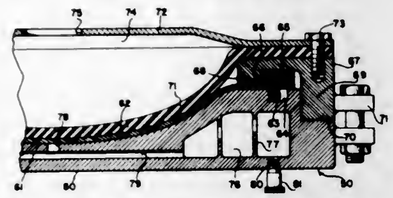
1. A clamp for adjustably holding a plurality of air-nozzle tubes for use in connection with sewing machines, comprising, complemental opposed centrally-apertured disks having their proximate side faces each provided with a flat wall and a tube-receiving groove disposed at opposite sides of the apertures of said disks, said disks being arranged with the groove of each disk opposed to the flat wall of the other disk to permit relative rotation between said disks, and a pivot-bolt passing through the disk apertures for removably securing said disks together in tube-clamping relationship after such rotation.

2,669,208
NEEDLE-BAR DRIVE LINK FOR SEWING MACHINES
Ralph E. Johnson, Mountainside, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 26, 1951, Serial No. 217,510
2 Claims. (Cl. 112—221)



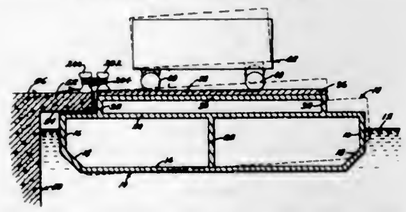
1. A sewing machine having a frame, an actuating crank, and a reciprocable and laterally vibratable driven member carried by said frame, only one connecting link extending between said crank and said driven member, pivotal connections connecting said link to said crank and said driven member, each of said pivotal connections comprising a pivot pin having a peripherally grooved portion, a pivot pin locking shim extending parallel to said link and having slots in one edge entered by the grooved portion of said pins, and means securing said shim to said link.

2,669,209
DIE ASSEMBLY FOR UTILIZING HYDROSTATIC PRESSURE IN A DEEP BODY OF WATER FOR FORMING SHEETS
Frederick C. Hoffman, North Hollywood, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application November 22, 1949, Serial No. 128,836
1 Claim. (Cl. 113—44)



A die assembly for utilizing the hydrostatic pressures in a deep body of water for forming sheets, plates, and like workpieces, comprising, a die body having a die face, an external die cavity formed in said face shaped to conform to the shape desired to be produced on a workpiece, means for securing the marginal portions of the workpiece to the die face with the workpiece extending across the mouth of the external die cavity and closing the same, said die face having a sealing groove, a sealing ring arranged in said groove to seal the inner side of said workpiece, said die body having an internal cavity communicating with said external die cavity to receive air as it is displaced from said external die cavity, said die body having a port communicating with said internal cavity, a tubular insert mounted in said port having an internal valve seat, and a ball valve yieldably urged against said valve seat in the direction of said internal cavity so as to permit air under predetermined pressure to exhaust from said internal cavity without allowing the water to enter therein.

2,669,210
BARGE TIPPLE
John H. Bernhard, Omaha, Nebr.
Application May 22, 1951, Serial No. 227,728
8 Claims. (Cl. 114—0.5)



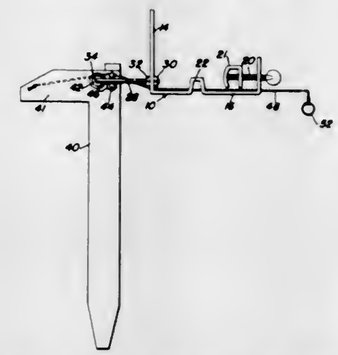
1. A barge tipple system comprising: a lockable confining basin opening upon a navigable waterway; means for controlling the water level in said basin; dock means in said basin, said dock means having an upper surface, said dock means having an outwardly protruding ledge having an outwardly extending lower side, said ledge overhanging and protruding outwardly over those portions of said dock means beneath said ledge; a barge having deck means for holding cargo, said barge having an outwardly protruding side portion spaced downwardly from said deck on one side of said barge for reception beneath said ledge and for engaging the underside of said ledge whereby when the other side of said barge is caused to raise upwardly with respect to said ledge as the water level in said basin is raised said protruding side portion of said barge will be raised up vertically until it engages the underside of said ledge and then will be held from rising by said ledge for the pivoting of said barge into a position such that the deck of said barge will be caused to incline from said one side thereof downwardly toward the other side thereof, the construction being such that the dock side of said deck is disposed on approximately the same level with the upper surface of said dock at times when the protruding side portion of said barge is disposed beneath said ledge and said barge is in an inclined position; means for holding said barge adjacent said dock; and wheeled cargo cars transversely disposed on said deck.

2,669,211
SURFACE MARKING SIGNAL
Robert O. Linck, San Juan, P. R.
Application May 26, 1952, Serial No. 290,107
10 Claims. (Cl. 116—26)



1. A surface marking signal containing powder for marking purposes and adapted to burst upon impact comprising an elongated casing of frangible material with its major axis extending therethrough and comprising a rear portion and an abutting front portion, said rear portion extending for about 75% of the whole length of the casing as measured along said major axis while the front portion extends for the balance of the length of the casing, said rear portion having a shape of a frustum of a regular pyramid terminating in a flat tail end disposed transverse to said major axis, the flat tail end having an area smaller than the area of a juncture plane extending transverse to the major axis and disposed between said abutting rear and front portions, said front portion abutting said rear portion at said juncture plane and extending oppositely from said rear portion along the major axis and having a shape of a frustum of a regular pyramid terminating in a flat front end having an area of an amount intermediate the amount of the area of said flat tail end on the rear portion and the amount of the area of said juncture plane between said rear and front portions, said flat front end having a filling access aperture extending therethrough for inserting of marking powder, and a closure for said aperture of material porous to the passage of air but impervious to the passage of powder, whereby said casing will not be deformed or fractured when handled and due to changes in pressure such as will obtain in an aircraft as a result of sudden changes of altitude.

2,669,212
TURN INDICATOR FOR VEHICLES
John J. Dean, Pomona, Calif.
Application July 7, 1950, Serial No. 172,513
8 Claims. (Cl. 116—52)

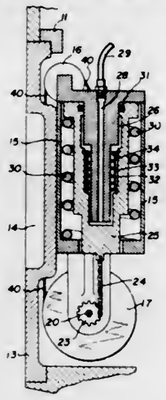


1. A turn indicator for vehicles comprising a one piece channel shaped mounting bracket for attachment to a vehicle window frame and including spaced vertical flanges, clamping screws carried by one flange of said bracket for retaining the bracket on a vehicle window frame, a vertically swinging arm pivoted on the other flange of said bracket and adapted to be disposed exteriorly of and at one side of a vehicle, and an operating cord slidably carried by said bracket and attached to said arm, said bracket including inner and outer upstanding flanges and a web permanently joining said flanges, and a hollow open ended rib on the web and paralleling said flanges for reception in the window receiving channel of a vehicle window frame.

2,669,213
PRESSURE INDICATING DEVICE
Algernon S. Badger, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application December 16, 1950, Serial No. 201,223
3 Claims. (Cl. 116—114)

1. A pressure signalling device which comprises a supporting member, at least a first pulley carried by and arranged above said supporting member, at least a second pulley carried by and arranged below said supporting member, at least a third pulley mounted on said supporting member at a point intermediate said first and second pulleys, a sprocket wheel carried by said supporting member by means common to said second pulley and operatively connected thereto, a chain connected to and engageable with said sprocket wheel adapted to rotate said sprocket wheel by movement of said chain into engagement with said sprocket wheel by a pressure responsive actuating member connected to one end of the chain, at least a cable connected to said second and third pulleys and extending

over said first, second and third pulleys, means for maintaining tension on said cable connected to said third pulley, and an indicator bar carried by said cable adapted for registering pressure on a graduated scale carried by said supporting



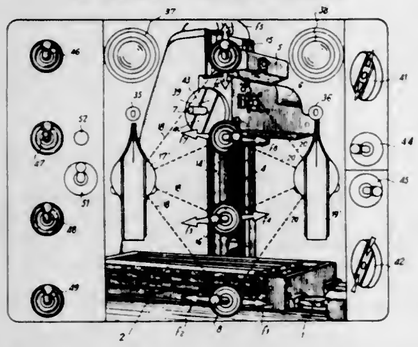
member cooperating with said indicator bar on rotation of said sprocket wheel responsive to movement of said chain by said pressure responsive actuating member into engagement with said sprocket wheel.

2,669,214

SELECTING DEVICE FOR CONTROLLING MACHINE OR APPARATUS MEMBERS

Charles William Berthiez, Bizy Vernon, France, assignor to Societe Anonyme dite: Societe Nouvelle de Construction de Machines-Outils et d'Outillage Procedes C. W. B., Paris, France

Application December 5, 1951, Serial No. 260,077
Claims priority, application France December 16, 1950
15 Claims. (Cl. 116—115.5)



1. A control box for controlling the movement of the movable members of a machine-tool or the like, comprising a panel, two member-selecting elements supported adjacent the exterior face of said panel in locations at either side of and symmetrical with respect to a substantially straight line on said panel for movement of said elements over said face to different predetermined selecting positions thereon corresponding respectively to said movable members of said machine, the number of said different selecting positions being at most equal to the number of said movable members, direction selecting means carried by said panel in locations respectively identified with the several movable members of the machine and in spaced relation to each other on said straight line, said locations of said direction selecting means corresponding also to said different predetermined positions on said panel to which said member-selecting elements are respectively movable, said direction selecting means being operable to opposed positions corresponding to the directions of movement of the respective movable members selected by movement of said member-selecting elements, all said member-selecting elements and said direction selecting means being independently operable one with respect to the others, and direction indicators associated with said direction selecting means for indicating said opposed position and the direction of movement of the respective movable members.

2,669,215

SENSITIVE INDICATING ELECTRIC METER

Karl Greulich, Frankfurt am Main, Germany, assignor to Landis & Gyr, A. G., a corporation of Switzerland

Application October 9, 1951, Serial No. 250,539
2 Claims. (Cl. 116—136.5)



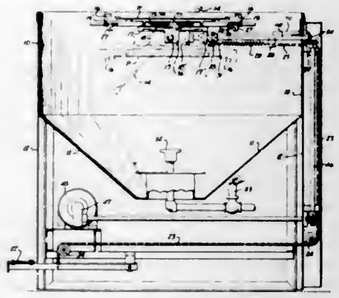
1. In a sensitive electrical measuring instrument, the combination of a hub member having an indicator arm projecting therefrom, the arm having opposite flat sides, an insulating sleeve having a diametral slot snugly fitting the flat sides of the arm, the arm having a reduced end portion and the insulating sleeve having a reduced aperture into which the reduced end portion is snugly fitted to center the arm on the sleeve, and a pointer supporting tubular member snugly fitted to the exterior of the insulating sleeve and spaced from the indicator arm by means of the sleeve, the diameter of the sleeve being slightly larger than the width of the arm.

2,669,216

PLATE WHIRLER

John D. Maxwell, Glen Head, N. Y., assignor to Powers Chemco, Inc., a corporation of New York

Application November 10, 1949, Serial No. 126,466
6 Claims. (Cl. 118—52)



1. In a photoengraver's plate whirler, the combination of a holder for rotatably supporting a plate to be coated and then dried, a circular friction surface on the side of said holder

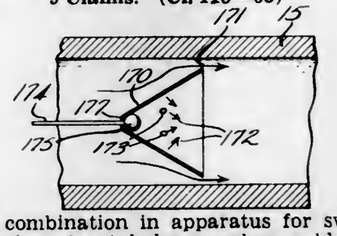
opposite the side where the plate is held, the circular friction surface comprising two concentric tracks, a pivotally mounted bearing in which the holder is rotatably journalled, the pivotal axis being at right angles to the axis of rotation but offset therefrom, so that the holder may be swung from one horizontal position with the side where the plate is held uppermost to another horizontal position with the side where the plate is held lowermost, and two driven friction wheels one of which is engageable with one of said tracks and the other with the other track to drive the holder at different speed when the holder is in one or the other of its horizontal positions.

2,669,217

APPARATUS FOR REMOVAL OF EXCESS SPELTER FROM THE INTERIOR OF LARGER SIZES OF CONDUIT OR THE LIKE BY MEANS OF HOT PURGING FLUID

William S. Pearson, Baltimore, Md., assignor to Clifton Conduit Company, Inc., Baltimore, Md., a corporation of Maryland

Application May 5, 1949, Serial No. 91,584
9 Claims. (Cl. 118—63)



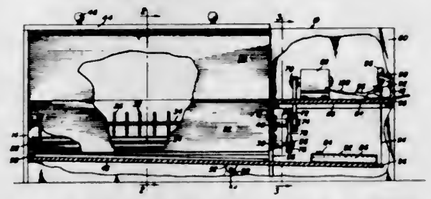
6. In combination in apparatus for swabbing the interior of a tubular member, a blow tube for delivering a charge of swabbing fluid into one end of a tubular member in registration with the blow tube, a deflector member supported by the blow tube for impulsion by the swabbing fluid through the tubular member to be swabbed, a piston connected to said deflector member, a cylinder operatively housing said piston, means normally supplying said cylinder with gas under pressure to urge said piston in a direction to draw said deflector member toward said blow tube, said piston and cylinder restraining movement of said deflector member through the tubular member by compression of gas in said cylinder by said piston to confine the swabbing fluid to a tubular swabbing layer along the internal wall of the tubular member, and means operable at the conclusion of swabbing action to shut off the swabbing fluid so that the compressed gas acting on said piston will cause the latter to return said deflector member to its initial position.

2,669,218

AUTOMATIC POULTRY FEEDER

Harry Erickson, Raymond, Nebr.

Application November 27, 1950, Serial No. 197,689
4 Claims. (Cl. 119—57)



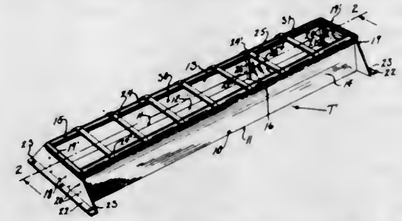
1. An automatic feeder comprising a support, a hopper mounted in elevated relation on said support, said hopper having relatively converging side walls terminating in spaced relation, a longitudinally fluted cylinder disposed in closing relation with said converging side walls, a trough placed in spaced relation below said cylinder, said trough being pivotally mounted adjacent one end thereof for oscillatory movement toward and away from said cylinder, a counterweight attached to said trough, said counterweight being sufficient to cause movement of an empty trough toward said cylinder, means including a motor for rotating said cylinder, a switch responsive to movement of said trough toward said cylinder for energizing said motor.

2,669,219

FEED TROUGH FOR HOGS AND THE LIKE

John L. Schroeder, Watertown, Wis.

Application February 27, 1952, Serial No. 273,612
1 Claim. (Cl. 119—61)



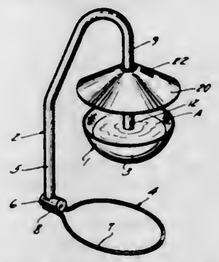
A feed trough for animals comprising, bottom, side and end walls, each side wall having formed on its inner surface a vertical U channel arranged in spaced parallel relation and being inturned along the upper edge to form an inner splash guard flange and an outer rounded surface, a slot extending transversely across the inner splash guard flange of each side wall, a series of parallel spacer bars extending transversely across the upper edges of the trough, providing individual spaces for each animal, and a removable partition received in said channels and slots and extending transversely across the trough, said partition being secured to and depending from one of the said spacer bars.

2,669,220

GUARD FOR POULTRY DRINKING FOUNTAIN BOWLS

John W. Goff, St. Paul, Minn., assignor to Miller Manufacturing Company, Incorporated, St. Paul, Minn., a corporation of Minnesota

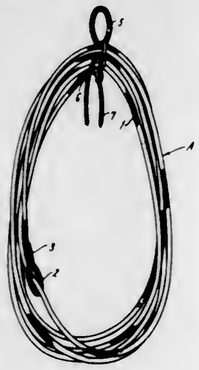
Application November 20, 1950, Serial No. 196,549
1 Claim. (Cl. 119—81)



A fount for poultry including a depending supporting conduit adapted to be connected to a source of water under pressure, valve means in said conduit, an open top receptacle, means mounting said receptacle to the lower discharge end of the conduit in spaced relation to the

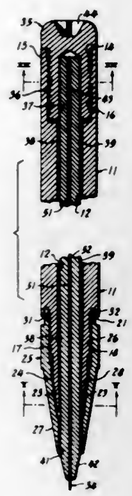
ground for upward and downward movements with respect to said conduit, means on said valve means operatively associated with said receptacle for causing the valve to open responsive to predetermined upward movements of said receptacle and permitting the valve to close responsive to predetermined downward movement of said receptacle, yielding means biasing said receptacle in an upward valve-opening direction, the combined weight of the receptacle and a predetermined quantity of water contained therein overcoming the bias of said yielding means to close said valve, a substantially imperforate conical guard element disposed in overlying relation to the receptacle and having a central aperture through which said conduit extends, said guard element extending over the area defined by said receptacle, said guard element being vertically adjustably movable on said conduit toward and away from the receptacle, said conduit providing stop means positively limiting downward movement of the guard element, and means connected to the guard element for locking the guard element against movement relative to said conduit, the normal spacing between the guard element and the receptacle permitting free access to the interior of the receptacle of the head and neck of a fowl, but preventing the fowl from perching on the rim of the receptacle, the lower edge of said guard element at the lowermost position thereof against said stop means and the upper edge of said receptacle in its upper valve open position defining a space sufficient to receive the neck of a fowl drinking from said receptacle.

2,669,221
TOY LARIAT
Frederick A. Major, St. Louis, Mo.
Application October 18, 1950, Serial No. 190,764
1 Claim. (Cl. 119—153)



A lariat comprising a length of rope having a loop at an end thereof through which a portion of said rope extends to provide a running noose, a second loop formed in said length of rope which serves to engage an article by which the lariat is supported, and tie means for tying the lariat in a coiled condition for support thereof, said tie means comprising a length of flexible material which is attached to the lariat at a point adjacent to the second-mentioned loop, a portion of said length of flexible material being extended transversely through a portion of said length of rope, and knots tied in said length of flexible material at opposite sides of said portion of the length of rope through which said portion of said length of flexible material is extended.

2,669,222
PENCIL
Harry L. Larsen, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application December 27, 1949, Serial No. 135,247
6 Claims. (Cl. 120—21)



1. In a pencil having a barrel with a bore opening to the exterior at each end thereof, means for supporting thin lead of rectangular section and of a thickness no greater than the width of a line to be drawn, said means comprising a pair of elongated gripping members of segmental section disposed in said bore, having their upper ends positioned adjacent the opening at the upper end of said barrel and fixedly held against movement, their lower ends projecting to the exterior through the opening at the lower end of the barrel, and their flat surfaces in opposition, a plurality of movable clamping elements provided upon said barrel disposed in surrounding relation to said elongated gripping members adjacent their lower ends, with a pair of said clamping elements arranged for engagement with the longitudinal edges of said elongated gripping members, and means operative on said clamping elements to move them into clamped position upon said elongated gripping members to apply a holding pressure upon a rectangularly shaped lead disposed between the flat surfaces of said elongated gripping members to restrain said lead against endwise and edgewise movements.

2,669,223
ANTIFLOOD FOUNTAIN PEN
Benjamin F. Miessner, Morristown, N. J.
Application January 18, 1951, Serial No. 206,677
9 Claims. (Cl. 120—50)

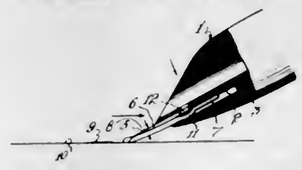
1. A fountain pen having a hood carrying a pen with ink collector spaces around the shank of the pen, an ink barrel fastened to the hood, the barrel being of elastic material transversely compressible but axially stiff, an ink tube securely carried by the hood and extending on the barrel axis, from a point near the pen nibs to a point near the volumetric center of the barrel, a complete air tube located in closely spaced annular

relationship within the ink tube, to promote capillary action between the tubes and extending



from a point adjacent the open end of the ink tube to a point near the nibs of the pen.

2,669,224
PEN NIB WITH SPREADER
Benjamin F. Miessner, Morristown, N. J.
Application October 24, 1950, Serial No. 191,771
4 Claims. (Cl. 120—109)



1. A writing pen having a pen point with the usual nibs, a spreader for the nibs comprising a metal strip fastened to the shank of the pen point having a slit between its nibs, said strip extending over the top side of the pen nibs but spaced a very small distance therefrom, said strip having a sharp edge next to and in alignment with the slit between the nibs whereby when the pen is held in the reverse of writing position and pressure is applied to said strip by drawing the pen along with the strip in pressure engagement with a hard surface, said sharp edge will be forced into the slit in the nibs and will push out any obstructing matter therein.

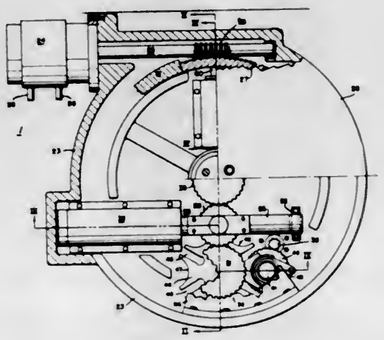
2,669,225
ADJUSTABLE RULING PEN
Robert D. Shomo, Detroit, Mich.
Application February 20, 1951, Serial No. 211,823
3 Claims. (Cl. 120—109.5)

2. A ruling pen comprising a shank having an axial bore extending therethrough, spaced oppositely disposed outwardly bowed resilient nibs carried by and extending longitudinally from said shank, said nibs converging as they recede from the shank, a shaft extending through the bore and adapted to rotate and move longitudinally relative to the shank, a cam head carried by the shaft for rotation and longitudinal movement therewith between the nibs, said cam head being adapted to engage the nibs and separate them to regulate the distance between the ends thereof remote from said shank, a bearing carried by a nib and facing the opposite nib, said bearing engaging the shaft adjacent the cam head for holding the shaft in alignment with the bore, and a handle fixed to the shaft adjacent the end of the



shank remote from the nibs for rotating the shaft and moving it longitudinally through the shank.

2,669,226
INTERMITTENTLY ROTATABLE DEVICE WITH SERVO CONTROL
Cecil E. Adams, Columbus, Ohio, assignor to The Denison Engineering Company, Columbus, Ohio, a corporation of Ohio
Application May 13, 1952, Serial No. 287,450
11 Claims. (Cl. 121—39)

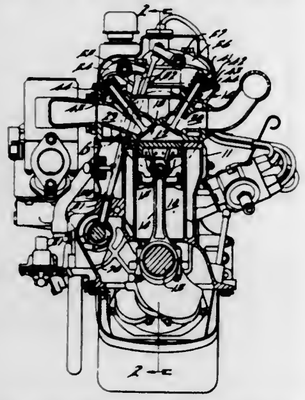


1. A hydraulically operated intermittently moving member comprising a motor; a rotatable member driven by said motor; control means for said motor including a valve; a plurality of meshing gears, one thereof being connected for rotation with said rotatable member, and another being connected with an element of said valve to impart movement thereto; a Geneva drive having a star wheel connected for rotation with a third gear of said plurality of meshing gears; a driver for intermittently rotating the star wheel of said Geneva; and a motor for driving the driver of said Geneva gearing.

2,669,227
OVERHEAD VALVE ENGINE
William E. Drinkard, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 15, 1950, Serial No. 156,215
11 Claims. (Cl. 123—55)

1. The combination with an internal combustion engine cylinder, of a cylinder head provided with a dome-like combustion cavity directly opposite an end of said cylinder and substantially coaxial therewith, a major portion of said cavity being defined by a spherical wall conforming to

a spherical segment of a single base having substantially the periphery of the bore of said cylinder as its base, said spherical wall extending from said periphery at one side of the cylinder and terminating in an inner margin short of said periphery at the other side of said cylinder, a single valved inlet port and a single valved outlet port in said spherical wall on an arc thereof each at an angle to the other and to the cylinder axis, and another portion of said chamber being defined by a bottom wall generally nor-



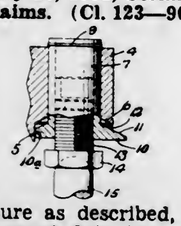
mal to the cylinder axis and having its inner margin extending in the same general direction as that in which a plane through said ports extends, and being further defined by a wall in juxtaposition to said ports connecting the said inner margin of said bottom wall and the said terminal inner margin of said spherical wall, and said spherical wall having an aperture on the opposite side of said valved ports from said juxtaposed wall for receiving an ignition means.

2,669,228

ADJUSTING SCREW ASSEMBLY FOR ROCKER ARMS

Paul F. Bergmann, Muskegon, Mich., assignor to Johnson Products, Inc., Muskegon, Mich., a corporation of Michigan

Application May 10, 1951, Serial No. 225,595
3 Claims. (Cl. 123—90)



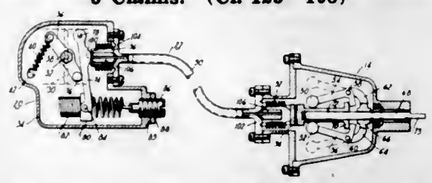
3. In a structure as described, a rocker arm adapted to be mounted to turn about a horizontal axis, disposed between its ends, one end adapted to engage the stem of a valve of an internal combustion engine to open the valve on downward movement of said end of the rocker arm, the other end of the rocker arm having a vertically disposed integral boss, said boss having a vertical passage therethrough of uniform diameter, a vertically disposed interiorly threaded sleeve passing through said boss, said sleeve at its lower end having a head located underneath at the lower side of said boss, said sleeve at its upper end portion above the upper side of said boss having an annular groove therearound, a split resilient ring surrounding the upper end of the groove and partially received therein, thereby limiting downward movement of the sleeve and head and maintaining the upper side of the head when in its lowermost position a predetermined distance from the lower side of said rocker arm boss, said lower surface of said boss having an annular surface around said sleeve inclined at an acute angle to the horizontal, and said head at its upper side having an annularly inclined surface around the sleeve, inclined at a substantially like angle to the horizontal, said inclined surfaces on the boss and head being substantially parallel to each other, a thin flat ring of spring material around the sleeve located between said head thereof and the lower end of the boss, normally occupying a horizontal position and said head at one side having a laterally extending lug engaging against an adjacent side of the rocker arm below the boss to hold the sleeve against turning about its vertical axis, and a tappet screw threaded upwardly into said sleeve having a head at its lower end.

2,669,229

GOVERNOR

Elmer M. Bimberg, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application December 21, 1948, Serial No. 66,451
5 Claims. (Cl. 123—108)



1. A governor for an engine having an air valve, comprising a yieldable means for urging the air valve in the opening direction, a shaft adapted to be rotated in accordance with engine speed, a plurality of centrifugal weights, levers pivoted on said shaft for supporting said weights, a member adapted to be moved by said levers, a lever pivoted at one end and spring loaded at the other end for yieldably opposing the movement of said member by said levers, and means including a fluid chamber having a movable wall operatively connected to said member, a second fluid chamber having a movable wall operatively connected to said last mentioned lever, and a conduit connecting said chambers, whereby the motion of said member is transmitted to said last mentioned lever.

2,669,230

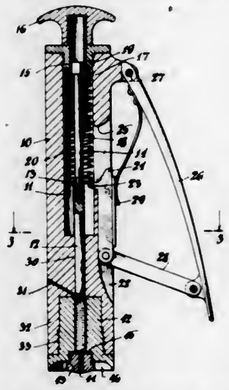
INJECTION APPARATUS

John H. Smoot, Darien, Conn., assignor to Becton Dickinson and Company, Rutherford, N. J., a corporation of New Jersey

Application July 30, 1947, Serial No. 764,817
7 Claims. (Cl. 128—173)

7. A hypodermic injection apparatus including in combination a casing, means for operatively supporting adjacent one end of the same an element defining a medicament chamber, a plunger carried by said casing and projectable to expel fluid from said chamber, a pressure accumulator within said casing and connected to said plunger to project the same, a handle having one of its ends pivotally connected to said casing to initially extend at an acute angle with respect to the axis of the latter whereby said casing and handle may be grasped by one hand and said handle may be swung towards the casing axis

and means releasably connecting said handle with said plunger to compress said accumulator



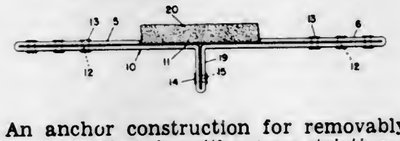
and thereupon free said plunger for projection under continued swinging action of said handle.

2,669,231

RETAINING MEANS FOR FLEXIBLE TUBES

Bernard Fisher, Philadelphia, Pa.

Application November 13, 1952, Serial No. 320,227
8 Claims. (Cl. 128—214)



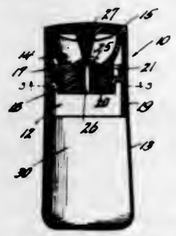
1. An anchor construction for removably retaining a flexible tube without constricting same comprising a flexible base strip, the medial portion of said strip being folded outwardly to form an extending tab portion, a yieldable pad carried by said base strip, the free ends of said strip being foldable into face to face relation whereby said yieldable pad is folded on itself for frictionally engaging and releasably retaining a flexible tube therebetween.

2,669,232

DISPENSER OR APPLICATOR

Emma G. Borowick, New York, N. Y.

Application January 19, 1951, Serial No. 206,768
2 Claims. (Cl. 128—249)



1. A combined dispensing container and applicator for laving the eye comprising, in combination, a receptacle for an eye-treating liquid, an eyecup element comprising a cup portion and a hollow stem portion communicating with said receptacle, a flap valve controlling flow through said hollow stem portion from said receptacle to said cup portion, said flap valve disposed at the junction of the hollow stem and the cup portion, and opening into the latter when subjected to fluid pressure through the stem, means for applying pressure to the liquid in said receptacle to cause it to flow through said hollow stem past the flap valve into the cup portion, a removable cover adapted to be applied to said receptacle to shroud said eyecup portion when the device is not in use, and a projection on said cover adapted to enter said cup portion, contact said flap valve, and press it firmly in closed position when the cover is applied.

2,669,233

ARTICLE OF FEMININE HYGIENE

Homer C. Friend, Davenport, Iowa

Substituted for abandoned application Serial No. 236,012, July 10, 1951. This application October 21, 1952, Serial No. 316,041
2 Claims. (Cl. 128—251)



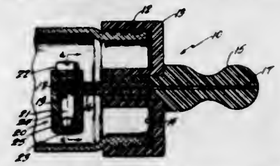
1. An article of feminine hygiene comprising a valve and a vaginal douche, an inlet to the valve and an outlet from the valve, the valve having a central longitudinal opening, a plug slidable in said central opening, said plug having a part reduced in diameter to form a stem and a shoulder, a spring surrounding the stem and serving to move the plug outwardly, said plug having a transverse opening adapted to be placed in alignment with the inlet and with the outlet whereby liquid may flow from the inlet through the plug and from the outlet through the vaginal douche, the plug having a groove in the inner end thereof, and a second outlet in the opposite direction from the first outlet, the spring being to retract the plug whereby the groove is placed in communication with the inlet and with the second outlet.

2,669,234

INFANT'S FEEDING DEVICE

Stephen Baracate, Troy, N. Y.

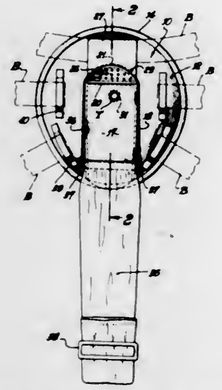
Application August 2, 1952, Serial No. 302,341
6 Claims. (Cl. 128—252)



1. In an infant nursing device, the improvement comprising the combination of a casing adapted to be applied to the open neck of a nursing bottle containing a liquid food; a non-collapsible nipple connected to said casing; an extension on said nipple adapted to project into said bottle but terminating marginally inwardly of said open neck, and having a longitudinal passageway therethrough and through said nipple; valve means, communicating with said passageway, mounted on said extension adjacent said open neck in a manner such that the valve will be submerged in said liquid food when said bottle is up-ended and will remain so submerged until said bottle has been substantially completely emptied; and valve means on said extension, cooperatively associating said extension

and said nipple, said means and said nipple being relatively movable with respect to each other, whereby to control the flow of liquid food and air from said bottle through said nipple.

2,669,235
COLOSTOMY APPARATUS
Hazel C. Burton, Gardena, Calif.
Application October 28, 1950, Serial No. 192,779
10 Claims. (Cl. 128—283)



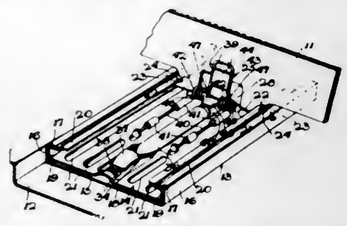
1. In colostomy apparatus: a generally dome-shaped shield snugly engageable with the body and having an inlet opening into which the colostomy may effect a discharge; a drainage channel secured to said shield and communicating with said opening, said channel comprising a front wall disposed across said opening, and an upper wall above said opening, said front wall having an inlet for a catheter tube in alignment with said opening; a container separate from said channel and disposed around and depending from said channel; and means attached to said container and extending across said upper wall to hold said container in place.

2,669,236
DIVIDER MEANS FOR FILING DRAWERS
Clarence W. Straubel, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio
Application January 20, 1950, Serial No. 139,589
3 Claims. (Cl. 129—28)



1. In a filing cabinet, a drawer, a guide element carried by and extending longitudinally of said drawer at the bottom thereof, said guide element being of substantially U-shape in cross section and including a bottom wall, side walls rising from said bottom wall, and inwardly directed flanges at the tops of said side walls, a shoe mounted in said guide element for sliding movement therealong, said shoe also being of substantially U-shape in cross section and including a bottom wall, side walls rising from its bottom wall, and inwardly directed flanges at the tops of its side walls, the side portions of said shoe being confined between the bottom wall and the flanges of said guide element, a divider plate having a bottom projection extending downwardly between the flanges of said shoe, said shoe flanges and said projection having interfitting notches whereby said divider plate is mounted upon said shoe for forward and rearward rocking movements relative thereto, stop formations on said guide element at points spaced apart longitudinally along the latter, a bottom portion of said divider plate projection being engageable between an adjacent pair of said stop formations when said divider plate is in a rearwardly rocked position, said bottom portion of said divider plate being disengageable from between said stop formations by a predetermined amount of forward rocking movement of said divider plate so as not to interfere with longitudinal adjustment of said shoe and said divider plate along said guide element, means to limit rearward rocking movement of said divider plate, and yieldable means tending constantly to rock said divider plate rearwardly.

2,669,237
CONTROL MEANS FOR DIVIDER PLATES OF FILING DRAWERS
Clarence W. Straubel, Loganbrooke, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio
Application September 3, 1952, Serial No. 307,683
7 Claims. (Cl. 129—28)



3. In a filing cabinet drawer having a divider plate rockably mounted on a longitudinally slidable shoe, a guide element for the shoe, a longitudinal row of spaced upstanding stop members on the element below the shoe, detents carried by the divider plate and projecting from either side thereof, for alternately engaging said stop members when the divider plate is rocked from one extreme position to the other, and resiliently yieldable means tending to rock said divider plate to one of its extreme positions.

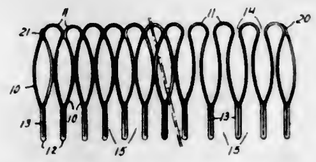
2,669,238
CIGARETTE OR CIGAR
Arthur Daniel Rawlings, Epsom, England
Application November 30, 1949, Serial No. 130,111
Claims priority, application Great Britain December 9, 1948
1 Claim. (Cl. 131—11)

As an article of manufacture, a cigarette or cigar, an integral strip of material of uniform width comprising a roll having a bore, the outer turn of said strip being secured to one end of said cigarette or cigar with the roll substantially coaxial with said cigarette or cigar, a plurality of the inner turns of said strip together forming a core, said plurality of inner turns being displaced axially a small distance from the remaining turns in a direction away from said cigarette or cigar and the projecting end portion of said plurality of inner turns remote from said cigarette or cigar being doubled back outwardly whereby the turns constituting the core are locked together and an integral ridge is formed on the outside of said core, whereby by



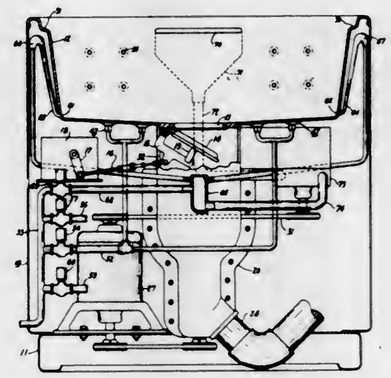
drawing said ridge and core axially away from said cigarette or cigar, the remaining turns of said strip are drawn into the form of a tapered tube whereby the remaining turns and the tapered tube may serve as a holder, and said ridge constitutes a flange at its extremity of said holder.

2,669,239
FLEXIBLE HAIR RETAINER
Roy A. Smith, New York, N. Y., assignor, by mesne assignments, to Featherombs, Inc., a corporation of New York
Application May 2, 1951, Serial No. 224,157
2 Claims. (Cl. 132—48)



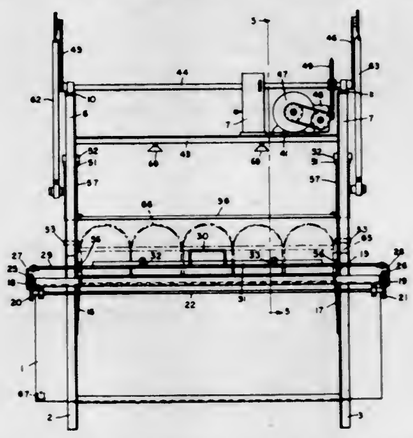
1. A flexible hair retainer which is readily conformable to the curve of the head and to the shape of the hairdress comprising a continuous strand of light, tough resilient material formed into a plurality of bowshaped toothlike elements having closely aligned internal surfaces and which are alternately interconnected at top and bottom by spring tensioned connections, in which the facing bowed sections are connected by a spring arch at the top and the opposed bowed portions are joined at the bottom, and which is characterized by springlike expandability and contractability along its top and bottom longitudinal axis and by capacity to bend and twist freely in any direction and in any plane.

2,669,240
DISH CLEANING SINK
Milton Z. Thorson, Knight Township, Vanderburgh County, Ind.
Application October 17, 1945, Serial No. 622,793
3 Claims. (Cl. 134—95)



1. In a sink for automatic dish cleaning having a sink bowl and drain line therefor, a drain valve, a servo-motor for operating said valve, a disintegrator in said drain line, a motor for operating said disintegrator, manually operable control means for controlling operation of said motors, and a manually instigated automatic sequence control for said motors which when in operation renders said manual control inoperative.

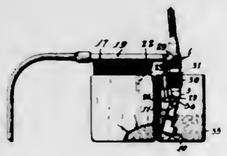
2,669,241
VEGETABLE WASHING DEVICE
Alfred F. Foote, Independence, Ohio
Application November 22, 1949, Serial No. 128,773
12 Claims. (Cl. 134—133)



8. A washing machine comprising a tank, a vertically reciprocable work supporting platform within said tank adapted to be held in work loading position in the upper portion of such tank, presser means mounted above said platform, drive means operative to move said presser means downwardly relative to said platform, means responsive to initial downward movement of said presser means operative to release said platform

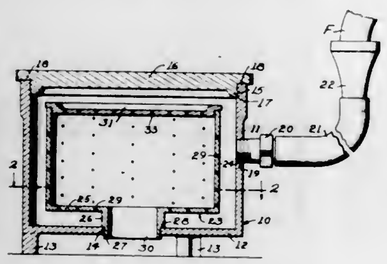
from such work loading position whereby the platform will descend in the tank under the weight of the work thereon, and means operative to check the descent of the thus released platform whereby said presser means will overtake said platform.

2,669,242
CLEANING AND OILING APPARATUS FOR DENTAL INSTRUMENTS
Lynn Wightman, Beverly Hills, Calif.; Etta Stallcup, executrix of said Lynn Wightman, deceased
Application August 27, 1949, Serial No. 112,764
6 Claims. (Cl. 134—166)



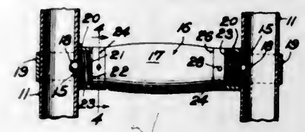
1. In a device of the class described, the combination of a container, means whereby a reduced pressure may be established within the container, means extending into the container to deliver a fluid into the container under the influence of the reduced pressure, said means including a downwardly extending conduit having at its end an angled section of reduced diameter, spaced means providing seats for a contra angle to be cleaned, a clamp element adapted to securely clamp the contra angle with relation to the spaced supports and the reduced section of the conduit being of a diameter such as to permit its passing into an opening formed in the contra angle.

2,669,243
CLEANING DEVICE FOR ARTIFICIAL DENTURES
Willard S. Reynolds and Glenn A. Gardner, Anderson, Ind.; said Reynolds assignor to said Gardner
Application July 28, 1952, Serial No. 301,354
2 Claims. (Cl. 134—167)



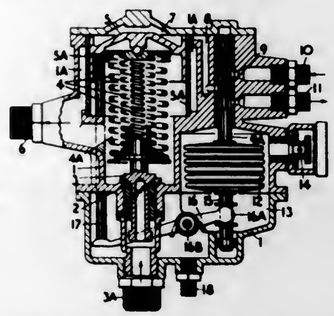
1. In a cleaning device for artificial dentures, an outer presure chamber open at one end, a removable cover adapted to seal said open end, means to supply fluid under pressure to said chamber, a denture containing chamber supported within said outer chamber and in spaced relation thereto, said inner chamber being open at one end and having a sealing cover therefor, and an exhaust conduit opening exteriorly of said outer pressure chamber, the cover, bottom and side walls defining said inner chamber having a plurality of fine perforations therethrough whereby a strong, fine spray may be directed on the dentures from all directions.

2,669,244
CRUTCH WITH ADJUSTABLE HANDGRIP
Charles C. Greene and Clarence V. Johnson, Yates Center, Kans.
Application April 8, 1952, Serial No. 281,075
1 Claim. (Cl. 135—51)



In a crutch, spaced tubular metal side bars having rows of opposed openings spaced longitudinally of the bars, a handgrip having a body of non-metallic material disposed between said bars, said body having at each end an externally reduced portion and an axially located socket, pins in said sockets with their ends projecting beyond and engaged with a pair of opposed openings in the bars, ferrules on said reduced end portion of said body and having external screw threaded portions, the threads on one ferrule being righthand and those on the other lefthand, transverse fastenings extending respectively through said ferrules, body and pins to secure said ferrules and pins to said body, bands surrounding said bars and slidable longitudinally therealong, and sockets rigid with said bands and internally screw threaded and engaged with the screw threaded portions of said ferrules, whereby rotation of said handgrip will spring said bars laterally toward or from each other to cause said pins to be engaged with or disengaged with a pair of said opposed openings.

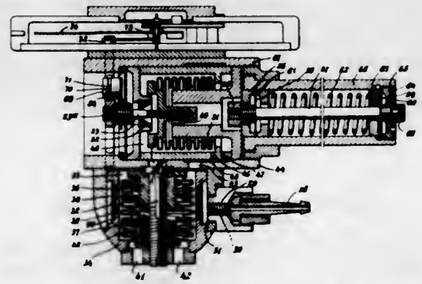
2,669,245
CONTROL DEVICE
Daniel Norman Walker, Ashby Parva, near Rugby, England, assignor to Power Jets (Research and Development) Limited, London, England, a British company
Application June 6, 1945, Serial No. 597,810
3 Claims. (Cl. 137—81)



1. A valve device for controlling the pressure of a first fluid flow in accordance with variations in pressure in a second fluid, comprising a resiliently loaded relief valve for adjusting the pressure of the first fluid, pressure fluid operated means for adjusting the resilient loading of said relief valve to any desired value over a range of values and a fluid pressure system of which the effective pressure is controlled by variations in

the pressure of the second fluid for operating said adjusting means, and a body containing the main operative parts of said device, said body having jacket spaces therein for the circulation of one of said fluids for the purpose of maintaining required temperature conditions.

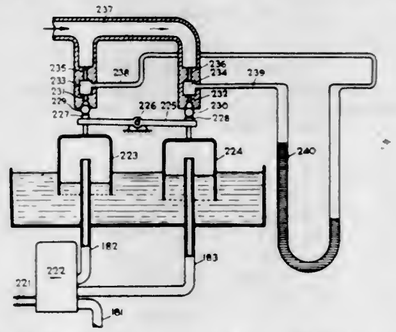
2,669,246
PNEUMATIC CONTROL AND/OR MEASURING MEANS
Carl Gustaf Hård af Segerstad, Sandviken, Sweden
Application April 29, 1948, Serial No. 24,007
Claims priority, application Sweden April 30, 1947
8 Claims. (Cl. 137—82)



1. Device for control or measuring purposes or both, comprising a pressure chamber, a pressure responsive member disposed in said pressure chamber dividing it into a pressure space and a counterpressure space, inlet conduits connecting each of said spaces to a source of compressed air common to both, throttling means associated with said inlet conduit leading to said counterpressure space to establish a pressure differential between said pressure space and counterpressure space, said pressure responsive member being adapted to be deflected responsive to variations of said pressure differential, a control passage disposed between a first chamber at a relatively low pressure and a second chamber substantially at the pressure of one of said pressure and counterpressure spaces, said inlet conduits also supplying air under pressure to said chamber which is substantially at the pressure of one of said pressure and counterpressure spaces, a rod carried by said pressure responsive member and extended with a loose sliding fit through said control passage, a valve body on said rod for closing said control passage when said pressure responsive member is moved, therewith moving said rod in a direction to seat said valve body against a valve seat at the adjacent end of said control body thereby to increase the pressure differential extant between said second chamber and said one of said pressure and counterpressure spaces proportionally to the variations of said first-named pressure differential.

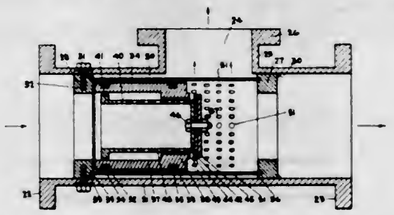
2,669,247
FLUID-PRESSURE OPERATED DEVICE
George Olah, London, England, assignor to Precision Developments Company Limited, London, England, a company of Great Britain
Application March 11, 1950, Serial No. 149,050
14 Claims. (Cl. 137—84)

3. Means for operating a pressure responsive device in accordance with a pressure difference proportional to a variable input force capable of assuming both positive and negative values, comprising a supply of fluid under constant pressure, a first duct, a first constricted outlet connecting said first duct to said supply, a body of fluid maintained at a substantially constant pressure the magnitude of which is lower than that of the constant pressure of said supply, a first outlet establishing communication between said first duct and said body of fluid so that a fluid pressure will be produced in said first duct which varies with the rate at which fluid escapes by way of said outlet, a first coned valve seating disposed around said first outlet, a first element movable towards and away from said first seating, a first ball interposed between said first element and said first seating and constantly urged away from the latter by the fluid escaping from the first outlet, a second duct, a second constricted outlet connecting said second duct to said supply, a second outlet connecting said second duct to said body of fluid



so that a fluid pressure will be produced in said second duct which varies with the rate at which fluid escapes by way of said second outlet, a second coned valve seating disposed around said second outlet, a second element movable towards and away from said second seating, a second ball interposed between said second element and said second seating and constantly urged away from the latter by the fluid escaping from said second outlet, and means for applying a force bearing a given ratio to the variable force simultaneously to said first element and to said second element so as to urge said first ball towards said first seating while permitting said second ball to move away from said second seating and vice versa, the variable pressure produced in said first duct and the variable pressure produced in said second duct being applied to said pressure responsive device.

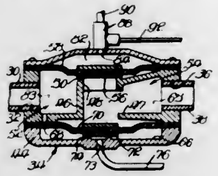
2,669,248
REVERSE FLOW BY-PASS VALVE
Frank L. Miller, Zionsville, Ind., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware
Application April 7, 1952, Serial No. 280,865
4 Claims. (Cl. 137—87)



1. A reverse flow by-pass valve for pipe lines comprising an elongated tubular housing having open ends for connection into a pipe line, radial

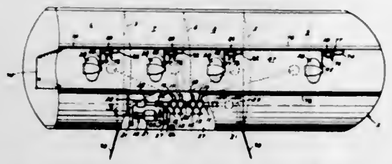
port means through the wall of said housing intermediate the ends thereof for connection to a pipeline; first and second internal abutments affixed to the inner wall of said housing on opposite sides of said port means, a tubular sleeve mounted between said abutments, first aperture means through a portion of said sleeve adjacent said port means, a tubular main piston mounted for limited sliding movement within said sleeve between said abutments, said piston being open at both ends, internal abutment means formed at one end of said piston, a perforate tubular secondary piston telescopically mounted within said main piston and having a closed end extensible through the abutment means of said main piston, and external abutments at either end of said secondary piston adapted to engage the internal abutment means of said main piston.

2,669,249
DIAPHRAGM VALVE
Robert A. Wittmann, Chicago, Ill.
Application November 2, 1949, Serial No. 124,959
14 Claims. (Cl. 137—115)



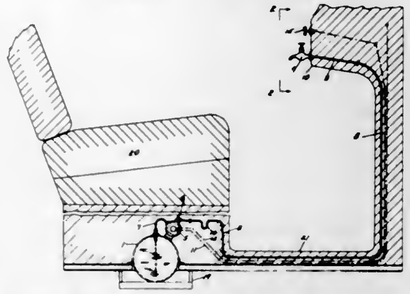
1. Means for controlling the flow of fluids in a conduit, said means comprising, in combination, a fluid-tight casing adapted to be interposed in the conduit and having a fluid inlet and a fluid outlet, an inlet chamber and an outlet chamber within the casing with wall means separating the chambers and defining a passageway between the chambers, a valve seat at one end of said passageway, a second passageway, said second passageway leading into the inlet chamber, a third passageway, said third passageway leading into the outlet chamber, a first diaphragm in said inlet chamber separating the fluid inlet from said second passageway, a second diaphragm in said outlet chamber separating the fluid outlet from said third passageway, a first valve member carried by said first diaphragm and adapted to engage said valve seat to close said first mentioned passageway, and a second valve member carried by the second diaphragm and adapted to close said third passageway.

2,669,250
SELF-VENTING FILL CAP FOR TANK BODIES
Walter V. Brown, Minneapolis, and Warren F. Logemann, St. Paul, Minn., assignors to Brown Steel Tank Company, Minneapolis, Minn., a corporation of Minnesota
Application March 14, 1952, Serial No. 276,634
14 Claims. (Cl. 137—267)



1. The combination with a truck for transporting volatile liquids comprising an elongated tank body having a plurality of compartments therein, and the top wall of each compartment having an opening therein, and each of said openings having a closure which is normally secured in closed position by a locking mechanism, of a bottom-fill mechanism comprising a manifold having a plurality of conduits connecting it to the bottoms of said compartments, valves for selectively controlling liquid flow through said conduits, said manifold having a loading branch provided with means for detachably securing one end of a loading arm or hose thereto, the opposite end of which is connected to a source of liquid fuel under pressure whereby the tank compartments may be filled from their bottoms, under pressure, and a pressure responsive device in communication with said manifold for simultaneously effecting actuation of all of said locking mechanisms to release said top closures, when liquid flow is established through said loading branch to fill one or more of said compartments, thereby to automatically vent said compartments during the filling operation.

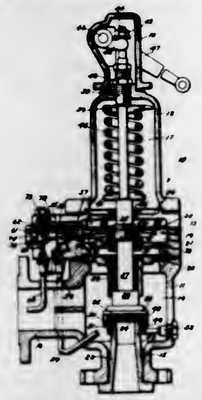
2,669,251
LIQUID SUPPLY SYSTEM FOR AUTOMOBILES
Charles Fletcher Jackson, Birmingham, Ala.
Application October 9, 1951, Serial No. 250,388
1 Claim. (Cl. 137—353)



A liquid supply system of the character described in combination with an automobile comprising, a tank, said tank having three separate compartments, each of said compartments having mounted thereon and in connection therewith a small electric motor and a small rotary pump for operation by the motor, a suction pipe leading from the pump to the interior bottom of the compartment on which the pump is located, a discharge pipe, a faucet, said discharge pipe leading from said pump to said faucet, said faucet being mounted on the dash panel of said automobile, electric current supply wires connected to said motor, an electric switch mounted on said panel near said faucet, said wires leading from said motor having connections to said switch for control of said motor; each of said compartments having a filler cap with a ventilating opening in the top of the cap; each of said discharge pipes having an integral well portion positioned near its companion pump; said assembled parts mounted within the structure of said automobile.

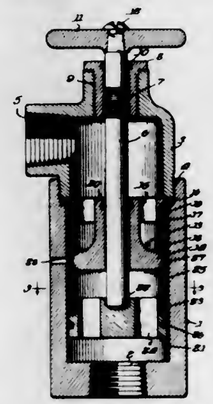
2,669,252
SAFETY VALVE
Victor Wallace Farris, Tenafly, N. J.
Application February 21, 1950, Serial No. 145,456
8 Claims. (Cl. 137—472)

1. The combination of a body provided with main and auxiliary chambers; means providing communication with the interior of said main chamber; a first spring-pressed disc normally closing said communication; a pressure-responsive member disposed in said auxiliary chamber, and coupled to said first disc; means providing communication between said main and auxiliary



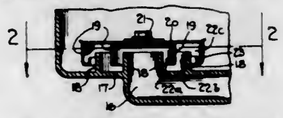
chambers; a second spring-pressed disc normally closing said last-named communication; a cam coupled to said first disc; and a push-rod extending from said second disc to a point adjacent said cam; said cam engaging said push-rod during the operation of said first disc to actuate said second disc.

2,669,253
COMBINED SHUTOFF AND RELIEF VALVE
George E. Hansen, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application June 21, 1951, Serial No. 232,732
8 Claims. (Cl. 137—525)



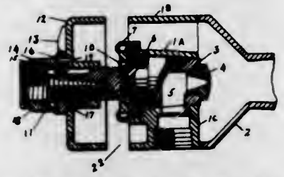
1. In a combined shut-off and relief valve, a casing, a centerpiece therefor having an outlet therefrom, a stationary spider, a movable spider, the said stationary spider having depending therefrom a flexible sleeve and a central annular portion projecting within the inner periphery of said sleeve, the movable spider being clamped to a lowermost end portion of the said flexible sleeve, a stem for moving the said movable spider reciprocally, the diameter of the central annular portion of the said stationary spider being slightly larger than that portion of the movable spider to which said flexible sleeve is clamped, an inner annular portion of the said sleeve contacting the outer annular surface of the said annular portion of the said stationary spider upon predetermined axial movement of the said movable spider, each of the said spiders having ported passages, the passage of the stationary spider being in communication with the interior of the said casing to permit flow therethrough upon predetermined axial movement of the said movable spider towards the stationary spider.

2,669,254
VELOCITY-REDUCING AND FILTERING INLET FOR HYDRAULIC TANKS
George W. Mork, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware
Application April 21, 1948, Serial No. 22,445
3 Claims. (Cl. 137—548)



1. A velocity-reducing hydraulic-fluid inlet, designed to be submerged in the tank of an hydraulic power system, comprising: two spaced substantially parallel plates; an upstream opening through substantially the center of one of these plates; a series of intermeshing annular baffles, each surrounding the upstream opening, and each projecting substantially perpendicularly from one of said plates; and a peripheral downstream opening, substantially surrounding the upstream opening; said downstream opening being located in the plate-and-baffle assembly adjacent the periphery of the outermost annular baffle; the cross-sectional area of the downstream opening being materially greater than that of the upstream opening; said velocity-reducing hydraulic-fluid inlet being further characterized by the fact that one of said annular baffles is spaced from the opposite plate and from any adjacent baffle so as to leave a space for the passage of liquid therebetween, and by having perforated basket means that is connected to said one of the baffles adjacent the free edge of such baffle and that extends only partly across said space, said basket means thereby catching and holding particles filtered out of the liquid, as the liquid passes through said space.

2,669,255
GAS VALVE
Frank D. Howe, Cuyahoga Falls, Ohio
Application March 19, 1947, Serial No. 735,643
8 Claims. (Cl. 137—607)



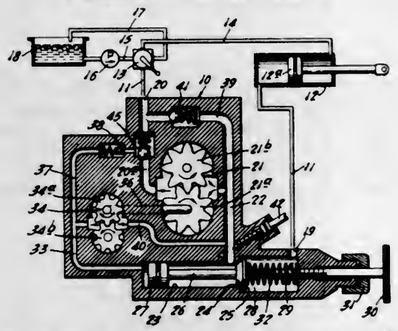
1. A valve barrel, a jacket spaced apart from said barrel, and limiting and defining an air passage about said barrel a plug valve rotatable within said barrel, said valve having a stem, an annular opening to said air passage between said handwheel rim and said jacket, adjustable by axial motions of said handwheel upon said valve stem, and means for locking said handwheel to said valve stem.

2,669,256

FLUID-METERING VALVE FOR HYDRAULIC MOTOR CONTROL SYSTEMS

Lauren E. Rampton, Sun Valley, Calif., assignor to Bendix Aviation Corporation, North Hollywood, Calif., a corporation of Delaware

Application October 26, 1951, Serial No. 253,353
9 Claims. (Cl. 137—620)



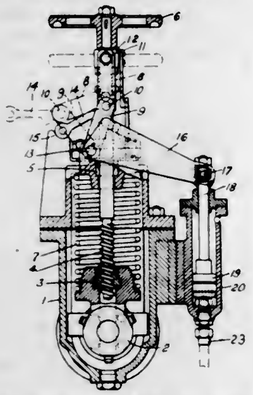
1. A valve of the type described comprising: first and second line ports; a cylinder containing a piston reciprocable therein; a pump; a fluid motor mechanically coupled to said pump for driving it, and first passage means connecting said motor between one end of said cylinder and said second port; valve means connecting said one end of said cylinder to said first port; means mechanically coupling said piston to said valve means for closing said valve means in response to movement of said piston away from said one end of said cylinder into a predetermined limit position, and opening said valve in all other positions; and second passage means connecting said pump between opposite ends of said cylinder; said pump being so sensed with respect to said motor and said cylinder as to pump fluid from the other end to said one end of said cylinder in response to fluid flow from said first port through said valve means and said motor to said second port.

2,669,257

QUICK CLOSING VALVE WITH FLUID PRESSURE RELEASE MECHANISM

Alexander Ramsay, Glasgow, Scotland, assignor to James Howden & Company Limited, Glasgow, Scotland, a corporation of Great Britain and Northern Ireland

Application July 28, 1951, Serial No. 239,034
1 Claim. (Cl. 137—699)



In a quick closing valve, in combination, a valve housing presenting a valve opening, a movable valve closure member to close said opening, an axially movable and rotatable screw-threaded spindle entering said housing, a nut-forming element within said housing, said nut-forming element engaging said spindle and being entrained by said movable member, a spring urging said spindle to slide within said housing towards valve-closed position, a toggle comprising jointed links disposed externally of said housing, one link of said toggle being pivoted to said housing, a collar entrained by said spindle and pivoted to the other link of said toggle, a trip member pivoted at one end to the joint of said toggle links, a fixed seat presented by said housing and engageable by the other end of said trip member, a double lever presenting two abutments, one end of said lever being pivoted to the pivot of the first-mentioned toggle link and a fluid pressure release mechanism coupled to the other end of said lever, one of said abutments being engageable with said trip member, and the other abutment being engageable with one of the links of said toggle.

2,669,258

COMPOSITE PACKAGING OR WRAPPING MATERIAL AND MANUFACTURE THEREOF

Isidor Spitz, Brooklyn, N. Y., assignor to American-National Bag & Burlap Co., Inc., Brooklyn, N. Y., a corporation of New York

Application September 14, 1948, Serial No. 49,284
10 Claims. (Cl. 138—55)



3. The method of making an endless generally tubular composite wrapping from individual elongate webs of material which comprises simultaneously arranging said individual webs into superposed generally helical relationship about and along a member, with side edge portions of successive turns overlapping side edge portions of preceding turns, and securing together side edge portions of the individual webs and said overlapping side edge portions during said arranging, while leaving the web portions intermediate said side edge portions freely movable with respect to each other.

10. A composite covering comprising a fabric layer helically arranged in open ended tubelike manner, a crinkle paper layer helically arranged in tubelike manner within said fabric layer, said fabric and crinkle paper layers being secured together only adjacent helically disposed marginal portions thereof, the remaining unsecured portions of said layers being free to move relative to each other.

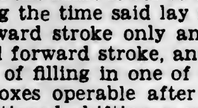
2,669,259

LOOM SHUTTLE

Kenneth Massey and Richard Vernon Patchett, Spondon, near Derby, England, assignors to British Celanese Limited, a company of Great Britain

Application September 29, 1950, Serial No. 187,494
3 Claims. (Cl. 139—208)

1. A loom shuttle comprising a pivoted tongue for the reception of a weft package, a spring adapted to exert a pressure on the lower face of the butt of said tongue for maintaining said tongue in a working position and on the heel of said butt for maintaining said tongue in a raised position, every part of said spring whose resilience contributes to said pressure being disposed substantially wholly beneath said butt when said tongue is in the working position, said spring having a portion adapted to exert an additional pressure on the heel of said butt when said tongue is in the working position and on the upper surface of said butt when said tongue is in the raised position.

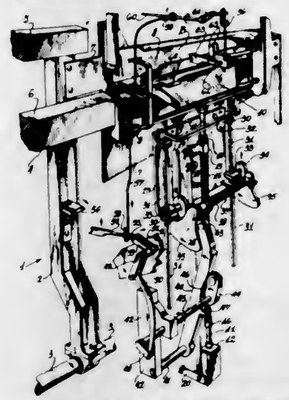


2,669,260

AUTOMATIC PICK AND PICK MOTION IN WEAVING LOOMS

Richard Foisy and Joseph Arthur Vezina, Montreal, Quebec, Canada, assignors of one-third to Lucien Forestier, Basking Ridge, N. J.

Application January 21, 1952, Serial No. 267,334
9 Claims. (Cl. 139—232)



1. In a loom, a lay movable backwardly and forwardly therein and having a plurality of boxes to accommodate a plurality of shuttles, means to shift said boxes with respect to the lay from a lower position to an upper position during the time said lay moves through part of a forward stroke and part of a consecutive backward stroke, auxiliary means to shift said boxes with respect to the lay from the same lower to the same upper position during the time said lay moves through part of a forward stroke only and before completion of said forward stroke, and means to effect a change of filling in one of the shuttles in one of said boxes operable after completion of said last mentioned shifting movement of said boxes and while said lay is in its forward limit position.

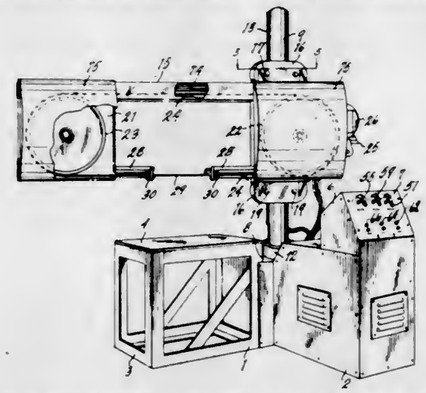
2,669,261

HYDRAULICALLY-ADJUSTABLE HORIZONTAL BAND-SAWING MACHINE

Raymond W. Bowers, Three Rivers, and Carl J. Alexander, Moore Park, Mich., assignors to Wells Manufacturing Corporation, Three Rivers, Mich., a corporation of Michigan

Application June 25, 1952, Serial No. 295,511
11 Claims. (Cl. 143—19)

11. A sawing machine comprising, a base, a column rotatably supported by said base and extending thereabove, a cylinder having a fluid operated piston drivingly connected to said column for rotating said column, a head slidably mounted on said column and having a framework projecting laterally therefrom, another cylinder carried by said column and having a fluid operated piston rod connected to said head to vary the elevation of said head on said column, said head and said column being interconnected to prevent relative rotation therebetween, a band saw rotatably carried by said head and said framework with the working reach of the saw spaced below said framework, and a motor carried by said head and connected to drive said saw.

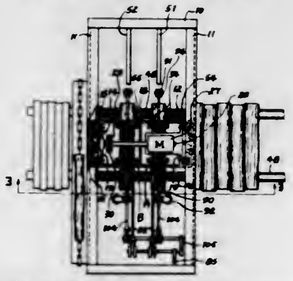


2,669,262

MULTIPLE SAW EQUIPMENT FOR TRAVELING-SAW SAWMILLS

Whitney W. Stevens, Kamloops, British Columbia, Canada

Application June 27, 1949, Serial No. 101,544
9 Claims. (Cl. 143—47)



8. Multiple saw equipment comprising a frame, a carriage reciprocally mounted on the frame, a plurality of circular saws rotatably mounted on and suspended from the carriage, means for rotating the saws, a supporting beam in line with and below the saws, means for moving logs one at a time onto the beam, said log extending longitudinally of the beam, a clamping bar above and extending longitudinally of the beam and means for moving each end of the bar downwardly against a log on the beam, each end of the bar being movable relative to the other end.

2,669,263

WORK RETURN MECHANISM FOR RIP SAWS

James L. Smith, Charlotte, N. C.

Application December 21, 1951, Serial No. 262,783
3 Claims. (Cl. 143—157)

1. In combination with a machine including a table, an implement operating adjacent said

table, and a gauge for guiding elongated work pieces past said implement, feed rollers disposed one above the other at the discharge side of said implement for engaging work pieces and pulling the work pieces past said implement, and a work supporting and return mechanism having spaced side members with a movable contact element disposed transversely thereof arranged longitudinally of said table at the side of said feed rollers remote from said implement and pivotally mount-



ed on said table for movement about a horizontal axis transverse of said table for receiving a work piece from said feed rollers and returning the work piece to a position at which the end portion thereof adjacent said feed rollers is supported on the upper feed roller, said upper feed roller being then effective to return the work piece to a location adjacent that at which the work piece was initially engaged by said feed rollers.

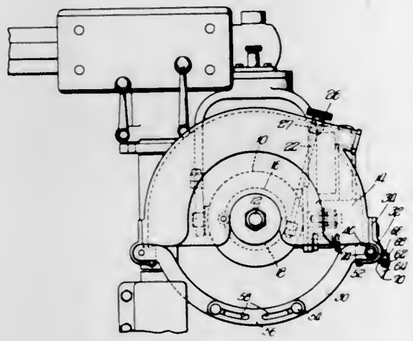
2,669,264

GUARD FOR THE PERIPHERY OF ROTARY DISK CUTTERS ON MACHINE TOOLS

Harry R. Wilson, Waterloo, Iowa, assignor, by mesne assignments, to Skil Corporation, a corporation of Delaware

Original application December 3, 1946, Serial No. 713,615. Divided and this application July 12, 1951, Serial No. 236,327

6 Claims. (Cl. 143—159)



1. The combination with a radial saw machine having an upright supporting member and a saw blade work unit movable toward and away from said supporting member, of means for guarding an operator from injury from said blade, said means including an upper saw guard substantially enclosing the upper half of said saw blade, and a lower saw guard encircling the lower periphery of said blade, said lower guard including a plurality of articulated link members comprising pairs of end links each pivotally suspended from said upper guard and a pair of intermediate links connecting said end links.

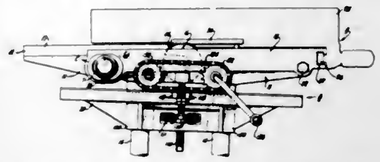
2,669,265

JOINTER-PLANER

John W. Edgemond, Jr., Los Altos, Calif., assignor to Magna Engineering Corporation, San Francisco, Calif., a corporation of California

Application June 1, 1951, Serial No. 229,377

2 Claims. (Cl. 144—129)



1. A jointer comprising: an open, generally rectangular frame; a rotary cutter mounted to and within said frame intermediate the ends thereof; a take-off table pivoted at its forward end to said frame on an axis concentric with the axis of said rotary cutter; a feed table pivoted at its forward end to the forward end of said frame, said feed table being provided with forwardly extending arms arranged to straddle the sides of said take-off table; a cam shaft journalled in the rear end of said frame in parallelism with the axis of said cutter; opposed cams fixed to said cam shaft, each of said cams being arranged to rotate within cam openings formed in the overlapping portions of said arms and take-off table and the cam surfaces on said cams being so arranged that upon rotation of said cam shaft each of said tables will rotate about its axis in the same angular direction in parallelism with each other; means fixed to said cam shaft for adjusting its angular position; and means for locking said cam shaft to said frame in any desired angular position.

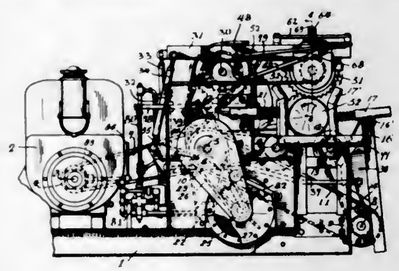
2,669,266

LOG-BARKING MACHINE HAVING A GIMBAL MOUNTING FOR TOOTHED LOG-FEEDING WHEELS

Orezul Bouchard, Montreal, Quebec, Canada

Application June 7, 1951, Serial No. 230,290

4 Claims. (Cl. 144—208)



1. A log barking machine comprising a frame, a knife rotatably supported thereby, an auxiliary frame pivotally supported by the first frame, a rotatable shaft in said auxiliary frame, a toothed ring on said shaft, a mounting for said ring on said shaft, said mounting being diametrical to said shaft and ring and said ring being rotatable on said mounting, means for adjustably setting said ring on said mounting, a holding bar pivotally attached to the first frame and movable toward said knife, means for swinging said auxiliary frame downward toward said knife, and means connected to the last named means for swinging said holding bar toward said knife.

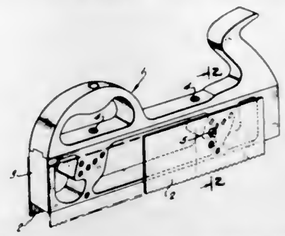
2,669,267

HANDSAW WITH PARALLEL BLADES

Edward Miller, North Salem, N. Y.

Application April 6, 1951, Serial No. 219,562

2 Claims. (Cl. 145—31)



1. A saw, including, in combination, an elongated handle, a spacer member corresponding in length to the handle, a longitudinal tongue and groove fitting between the bottom on the handle and the top of the spacer frame, means to secure the handle and the spacer frame together, plane members, one positioned on each side of the spacer frame, the bottom edges of said plane members extending below the bottom of the spacer frame and at least one of the plane members having its lower edge formed into saw teeth, a plurality of screw threaded holes in each end of each face of the spacer frame, the holes on each end of each side face being similarly arranged and the holes in one end of any one side face each being at a different distance from the bottom of the spacer frame, said plane members each formed with two through bores, said bores being spaced apart a distance of two through threaded holes on the same face of the spacer frame which are each of the same distance from the bottom face of the spacer frame and four screws, one passing through each through bore in a plane member and into a screw threaded hole in the spacer frame.

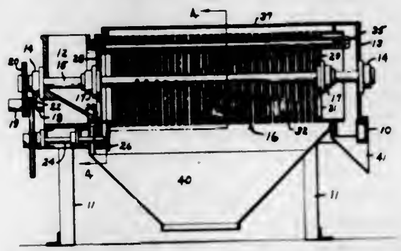
2,669,268

NUT SHELLER

Leo J. Meyer, San Antonio, Tex.

Application August 19, 1950, Serial No. 180,413

5 Claims. (Cl. 146—8)



1. A nut sheller including, a housing a shaft journalled therein, a drum, a shaft supporting said drum with ends journalled for rotation in said housing and comprising, a plurality of spaced, separate rings, each ring including a ring having spaced apart, inwardly extending projections thereon with a boss on each projection, said bosses providing holes therein angularly spaced apart and radially spaced from the axis of said drum whereby said boss holes may be axially aligned, annular, separate, individual spacers between said bosses for holding said rings in selected spaced relation at their peripheries, and tie means extending through said holes and said spacers with ends to removably bear upon said drum ends to hold said drum ends and said rings in assembled relationship, said housing providing an inlet, said drum end adjacent said inlet providing an inlet opening therein through which nut kernels and shells placed in said inlet may pass into said drum, said housing also providing an outlet and the other end of said drum providing an outlet opening to communicate with said outlet, a bin below said drum, said shaft having spaced radially extending pins thereon successively angularly displaced to form a helix between said inlet opening and said outlet opening and being progressively longer from said inlet opening to said outlet opening to provide progressively increased beating action on the nut kernels and shells passing through said drum toward said outlet, each of said rings comprising annular outer means and a smaller diametrically dimensioned annular inner portion whereby annular feed pockets are formed to conduct a substantial part of said nut kernels and shells in a sifting action to the peripheral spaces between said outer portions to fall therethrough into said bin, each projection including a web for connecting the boss thereon to said rim, said webs having one side thereof which extends from the rim to the bolt receiving portion at a substantial angle to a radial line from said drum axis to the point of connection of said side to said rim so that said bosses abet the shifting action of the drum in feeding through the feed pockets and discharging through the spaces between said rings and avoid lodgment pockets at said bosses.

2. A barrel tumble comprising, a series of rings, a plurality of individual means to selectively axially space said rings apart in accordance with a multiplicity of pre-determined spacing patterns, each ring having a flat peripheral rim surface which combines with the peripheral surfaces of other rings to form a smooth cylindrical outer barrel face, said ring being of greatest axial width at its peripheral rim and having its side faces converging radially inwardly for cooperation with side faces of adjoining rings to provide feed troughs leading to annularly uninterrupted discharge openings between the spaced rims, bolt receiving means including internal anchor bosses rising inwardly from the rings to receive through bolts which locate the rings, said bolt receiving means including said inwardly rising bosses which have a forward edge which slopes backwardly from the rim from a point in advance of the boss to deflect material being tumbled and avoid lodgment pockets at the bosses.

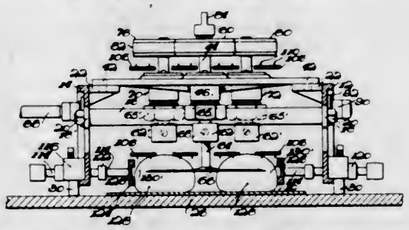
2,669,269

ROTARY DISK SLICER FOR SLICING A PLURALITY OF ROWS OF BUNS

Albert S. Schmidt, Harrisburg, Pa.

Application December 8, 1948, Serial No. 64,073

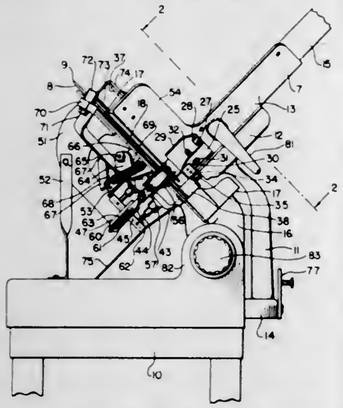
10 Claims. (Cl. 146—73)



5. A slicing machine for use in conjunction with a traveling conveyor comprising a frame superimposing the conveyor, guides adjacent the

frame extending, respectively, along each margin of the conveyor and adjustable transversely thereof to control the width of the passage beneath the frame, a cutter disc parallel to and superposing the conveyor surface carried by the frame and wholly within the opposite longitudinal margins of the conveyor, spaced parallel means carried by the frame and overlying, respectively, opposed semi-circular portions of said disc for fixing the position of articles on the conveyor during its passage beneath the frame, and means for rotating said disc.

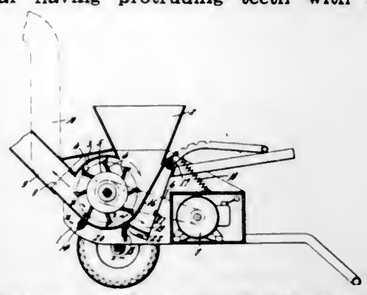
2,669,270
MACHINE FOR RESLICING BREAD
Isadore B. Rosenberg, Port Chester, N. Y., assignor of one-half to Paul Dean Arnold, Rye, N. Y.
Application September 30, 1950, Serial No. 187,761
7 Claims. (Cl. 146—73)



6. In a machine to sever bread slices into thin halves, the combination of a rotatable cutter, a movable hopper, means for mounting the hopper and the cutter for relative sidewise movement towards and from each other, movable obstructing means on the delivery end of the hopper, fixed means for actuating said obstructing means to operative and release positions, a plate having a delivery opening adjacent the delivery end of the hopper, and a gate carried by the plate operated by the hopper for controlling said opening.

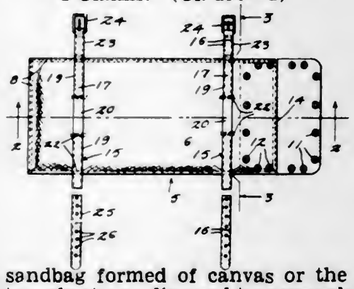
2,669,271
CENTRIFUGAL BLOWER AND CUTTER FOR COMMINUTING AND CONVEYING FODDER
Paul Robert Theodor Treckmann, Rodau Uber Bensheim a. d. Bergstrasse, Germany, assignor to N. V. Maatschappij Tot Exploiteren van Octrooien en Licenties "Matepa" 's-Hertogenbosch, Netherlands, a corporation of the Netherlands
Application October 15, 1951, Serial No. 251,435
Claims priority, application Germany October 16, 1950
4 Claims. (Cl. 146—107)

1. In a centrifugal blower for conveying and comminuting agricultural produce and the like, a feed hopper, a casing connected to said hopper for receiving and accommodating rotating parts, a rotary drum, a plurality of blades on said drum, said blades being parallel to the axis of rotation, said blades being formed by a plurality of adjacent teeth which in radial direction include both long and short teeth, a stationary cutter bar having a straight cutting edge, said bar being mounted on the casing at such a distance from the rotary blades, that the long teeth of the blades pass at a small distance from the said cutting edge, at least one comb-shaped cutter bar having protruding teeth with spaces



therebetween, said comb-shaped bar being mounted on the casing, in the direction of rotation, behind said stationary cutter bar, the long teeth of the rotating blades during their rotation passing through said spaces and an outlet for the comminuted material connected to said casing.

2,669,272
SANDBAG
Odean M. Permann, Mitchell, S. Dak.
Application September 3, 1952, Serial No. 307,654
4 Claims. (Cl. 150—1)

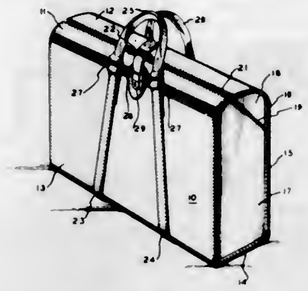


1. A sandbag formed of canvas or the like, a pair of two ply straps disposed transversely of the sandbag in longitudinally spaced relationship relatively to one another, said straps having intermediate ply portions extending across opposite sides of the bag and between which the bag is disposed and stitched end portions projecting from the side edges of the bag, said first mentioned ply portions having end portions stitched to the sides of the bag against which said ply portions are disposed and having unstitched portions disposed therebetween forming handles.

2,669,273
BRIEF CASE
Charles W. Keirsey, Ponca City, Okla.
Application June 12, 1950, Serial No. 167,557
1 Claim. (Cl. 150—1.6)

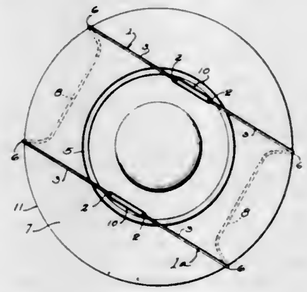
A top opening brief case formed of leather or the like comprising a bottom wall, side and top walls forming a continuation of said bottom wall, end walls connected to said bottom, side and top walls, said end walls being flat and of substantially rigid material, each of said end walls being separated into two unequal sections along a line extending downwardly and laterally from the top of the corresponding end wall adjacent one side wall to the opposite side wall at a point substantially lower than the top wall, the upper portion of the second side wall together with the separated portions of the end walls and a portion of

the top wall being pivotable along a hinge line in said second side wall extending between the aforesaid points and forming a cover for the case, de-



tachable fastening means between the cover and the case, and handle means adjacent the top of the case for carrying same.

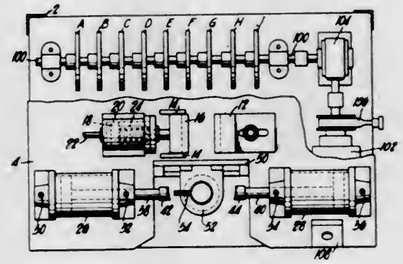
2,669,274
GROUND GRIPPING ATTACHMENT
Harry D. Mullan, Wauwatosa, Wis.
Application July 29, 1950, Serial No. 176,605
12 Claims. (Cl. 152—223)



1. In combination with a vehicle wheel including a pneumatic tire, of a ground gripping attachment comprising a pair of members mounted on said tire in diametrically opposed relation, each member including a pair of legs extending in spaced-parallel relation inwardly of the tread of said tire, a hook on each of said legs, a curved portion on each leg embracing the tread and side walls of said tire and a bar portion connecting said curved portion, a pair of chains each connecting a hook on one member with a corresponding hook on the other member, and a resilient connection between the intermediate portion of said chains holding said chains taut between said members.

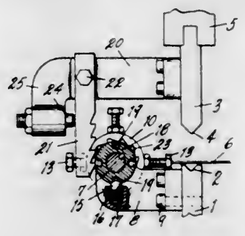
2,669,275
APPARATUS FOR INSTALLING CLIPS IN COIL SPRINGS
George Donald Fenton and Emil S. Tideman, Worcester, Mass.
Application February 5, 1951, Serial No. 209,505
8 Claims. (Cl. 153—1)

1. Apparatus for installing an M-shaped clip on a coil spring comprising a substantially horizontal feed table for the spring, means for clamping a coil spring in position on said feed table, four fluid cylinders arranged radially around one end of the clamped coil spring at approximately 90° intervals, a piston in each of said cylinders, a pair of spaced apart wedge shaped tools attached to and movable with one of said pistons, an arbor attached to and movable with the piston opposite the tool carrying piston, a hammer attached to each of the other two pistons, means for causing said tool carrying piston to move radially to force said tools part way through the coil spring to separate a pair of adjacent coils thereof, means for causing said tool carrying piston to move radially to move said tools out of engagement



with said spring after an M-shaped clip has been inserted in position through said spring, means for causing said arbor carrying piston to move radially inwardly to insert said arbor into a position between the inner legs of said clip, means for causing said hammer carrying pistons to move radially inwardly to force said hammers against the outer legs of said clip and bend them against the inner legs, means for causing said arbor and hammer carrying pistons to move radially outwardly to retract the arbor and hammers from said spring.

2,669,276
WORK STOP OR POSITIONING MEANS FOR FORMING AND BENDING MACHINES
George A. Humphrey, Kalamazoo, Mich., assignor to General Gas Light Company, Kalamazoo, Mich.
Application January 30, 1950, Serial No. 141,200
6 Claims. (Cl. 153—21)



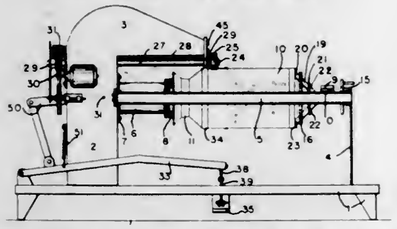
3. In a machine of the class described, the combination of an anvil jaw member, a reciprocating jaw member coacting therewith, a shaft disposed at the rear of said anvil jaw member with its axis of rotation disposed parallel thereto, sets of axially spaced work stops on said shaft, the stops of the sets being angularly spaced and independently adjustable radially of the shaft, corresponding stops of the sets being aligned axially of the shaft, means for rotating said shaft one step on the retracting stroke of the reciprocating jaw member, and means for retaining said shaft against rotation intermediate the rotational movements imparted thereto by said rotating means.

2,669,277

DEVICE FOR RESTORING CYLINDRICAL OBJECTS

Calvin D. Williams, Cloquet, Minn.

Application March 15, 1951, Serial No. 215,812
11 Claims. (Cl. 153—54)



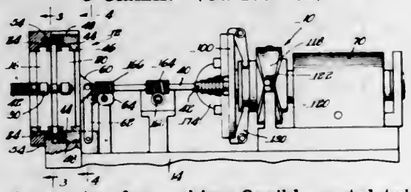
1. A device for restoring cylindrical objects to their normal shape comprising a body member, a track carried by said body member, a chuck slidably carried by said track, a tube extending from said body member parallel with said track, a slidable sleeve on said tube, said chuck and sleeve being adapted to carry a cylindrical object therebetween and being axially rotatable together with said object, a roller carried by said body member, said roller being rotatably driven and adapted to engage and rotate said object, an inner roller carried by said body member and adapted to operate within said object adjacent said first roller, said inner roller being adapted to be moved to engage said object and press same against said first roller to remove irregularities from said object as it is rotated.

2,669,278

TUBE CORRUGATING MACHINE

Raymond C. Andersen, Lombard, Ill., assignor to Chicago Metal Hose Corporation, Maywood, Ill., a corporation of Illinois

Application March 6, 1948, Serial No. 13,412
3 Claims. (Cl. 153—73)



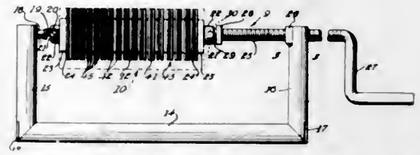
1. Apparatus for making flexible metal tubing and comprising a rotatable tool support, a plurality of grooving tools mounted on the tool support with the operative ends thereof disposed adjacent and peripherally around the space in which a tubular work piece is positioned, means for supporting the work piece, said means including a fixed collar adjacent the grooving tools and engaging the work piece with a close sliding fit, and said means acting to prevent material rotation of the work piece but permitting positive axial feeding of the work piece through said collar; means for simultaneously reciprocating the grooving tools to progressively engage the work piece for effecting the complete grooving thereof to a predetermined depth upon each stroke of the grooving tools into engagement with the tubular work piece, and means independent of the grooving tools and spaced therefrom for compressing the work piece wall sections between adjacent grooves and including an axially reciprocable compressing member effective to feed the work piece axially of the space within the operative ends of the grooving tools upon their withdrawal from engagement with the work piece.

2,669,279

METHOD AND APPARATUS FOR MAKING SLIDES

Robert F. Barter, Ruth, Nev.

Application June 30, 1950, Serial No. 171,519
4 Claims. (Cl. 154—1.6)



1. In a method of making a plurality of slides each composed of an assembly of components including a masked transparency and glass plates at opposite sides of the transparency, the steps of transiently supporting the components and adjacent assemblies loosely in registry, separating the assemblies by placing spacing means between adjacent assemblies and leaving marginal portions of the assemblies exposed, applying compressive force to opposite ends of the resultant group of assemblies so as to compress the components of each group together and so as to compress the spacing means between adjacent assemblies, removing the transient holding support, and applying fusing cement to the edges of the assemblies.

4. In apparatus for making a plurality of slides, a carrier for removably holding a stack of slides in registry, said carrier comprising a longitudinal wall, sidewalls along opposite sides of said longitudinal wall, and end walls extending between said sidewalls at the ends of the longitudinal wall, said endwalls being formed with non-circular openings extending through an edge thereof, a press having a pair of aligned clamping plates smaller in area than the slides, said plates being non-circular in shape, the openings in the carrier endwalls being substantially of the same size and shape as the clamping plates so that when the clamping plates are positioned in said openings said carrier is aligned with the clamping plates and is non-rotatably connected to the clamping plates but can be disengaged from the clamping plates by moving the carrier sidewise relative to the plates in a direction to pass the clamping plates out of said openings, said clamping plates being engageable with the end slides of the stack through the openings in the carrier endwalls when seated in the carrier endwall openings and being movable toward each other to compress and clamp the slides together in registry with each other and in alignment with the clamping plates, and means for urging the clamping plates toward each other to compress the slides together sufficiently to support the stack of slides independently of said carrier, said carrier then being removable from the stack and from the clamping plates to expose edges of said slides otherwise enclosed by said carrier.

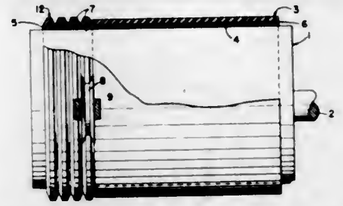
2,669,280

METHOD OF MAKING V-BELTS

Harold O. Augustin, Lincoln, Nebr., assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, a corporation of Ohio

Application November 8, 1951, Serial No. 255,448
7 Claims. (Cl. 154—4)

1. In the method of manufacturing the body portion of a V-belt including the steps of forming a sleeve incorporating several essential components of the belt including the tension elements and the compression portion of unvulcanized rubber which eliminates the waste normally encountered in cutting V-belt bodies from said sleeve, said method comprising reshaping



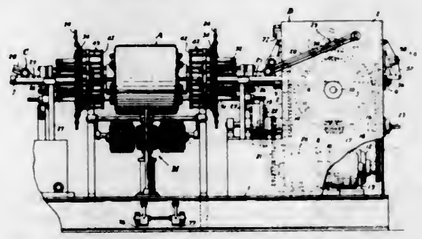
the compression portion into a multiplicity of mutually parallel corrugations of a cross-section approximating that of the belt, and severing the sleeve at the bottom of said corrugations to produce a multiplicity of V-belt body portions.

2,669,281

METHOD OF FOLDING THE ENDS OF A FABRIC BAND OVER THE END SHOULDERS OF A TIRE BUILDING DRUM

Walter J. Breth, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Original application June 14, 1944, Serial No. 540,306, now Patent No. 2,455,038, dated November 30, 1948. Divided and this application January 13, 1951, Serial No. 205,901
2 Claims. (Cl. 154—14)



1. The herein described method of forming a fabric flange on a rubber coated fabric band carried by a tire building drum that comprises positioning the band on the drum with an end thereof projecting past an end of the drum, stretching an elastic band to a size larger than the fabric band, positioning said elastic band around the projecting end of said band, and releasing the stretched band to cause it to snap into engagement with the edge of the fabric band beyond the end of the drum to simultaneously bend all portions of the fabric throughout the circumference of the band inwardly over the end of the drum.

2,669,282

LAMINATING ADHESIVE AND MANUFACTURE OF COMBINED FIBERBOARD THEREWITH

Robert L. Kreyling, Wynnewood, Pa., assignor to Philadelphia Quartz Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application June 21, 1950, Serial No. 169,537
19 Claims. (Cl. 154—33.05)

9. In the manufacture of laminated paper board on high-speed laminating machines wherein at least two plies are combined with an adhesive containing a sodium silicate solution as its aqueous phase having a viscosity within the range of from about 0.25 to 15 poises and a gravity of from about 30 to 50° Bé. at 20° C. with a per cent ratio of Na_2O to SiO_2 within the range of from about 1:2 to 1:4.2, and containing substantially uniformly dispersed therein from about 3 to 30 per cent by weight of a finely-divided raw unswollen starch-like material, containing no more than from about 5 to 7 per cent of protein and having the property of swelling by hydration before going into solution when heated with water to temperatures of from about 55° to 80° C., and from about 4 to 30 per cent by weight of an inert finely-divided siliceous material having an average particle size not substantially exceeding about 2 microns; said adhesive having an over-all viscosity at operating temperatures of from about 0.5 to 15 poises, a filter test at operating temperatures of from about 3 to 15 cc. and having the characteristic property of increasing substantially in viscosity when heated to temperatures within the range of from about 55° to 90° C.; the process which comprises applying to the face of a ply to be laminated the adhesive defined above, immediately combining the adhesive-coated face with another ply under pressure and heating the adhesive substantially simultaneously with its application to temperatures within the range of from about 55 to 90° C., whereby a flash bond is produced capable of withstanding cutting, scoring and other mechanical operations.

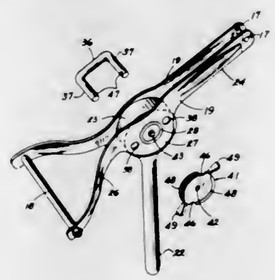
18. The process of claim 9 wherein one of the plies combined is corrugated and the adhesive used has an over-all viscosity within the range of from about 0.5 to 5 poises at operating temperatures.

2,669,283

BICYCLE SADDLE SUPPORT

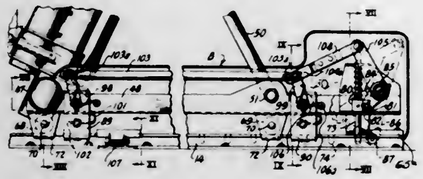
Roland W. Faulhaber, Monroeville, Ohio, assignor to The Faulhaber Company, Monroeville, Ohio, a corporation of Ohio

Application March 20, 1948, Serial No. 16,058
5 Claims. (Cl. 155—5.22)



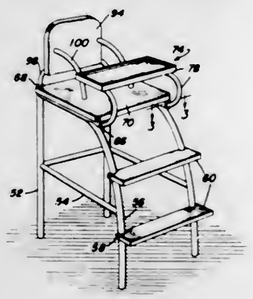
1. The combination of a saddle post member, a saddle having a reach member, the saddle post and reach members being formed with transverse holes so located that a pair of holes in the reach member are alignable with a pair of holes in the post member, a bifurcated key formed for insertion through the aligned pairs of holes in the said members, the key being formed with shoulders adjacent the ends of the furcations, and a wedging device engageable between the said shoulders and one of said members to retain the key in place and compress the said members together.

2,669,284
ADJUSTABLE VEHICLE SEAT
Francis A. Pall, San Diego, and Leo A. Pfankuch, La Mesa, Calif., assignors to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application May 17, 1948, Serial No. 27,436
11 Claims. (Cl. 155—14)



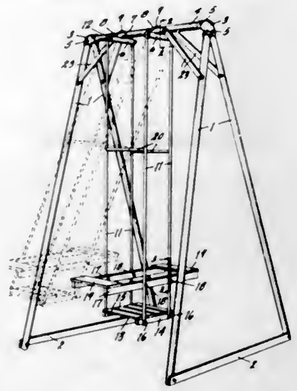
1. In a vehicle seat structure, a flanged track secured to the structure of said vehicle, a seat adapted to be movably supported on said track for positional adjustment with respect to the vehicle, means on said seat having an operative connection with said flange to prevent separation of said seat from said track, fixed stop means on one end of said track to limit the movement of said seat on said track in one direction and movable stop means for engaging said track to limit movement of said seat with respect to the track in the other direction, said movable stop means being movable out of engagement with said track to permit separation of the seat from said track.

2,669,285
COMBINATION HIGH CHAIR, LADDER, AND STOOL
Harold S. Young, Chula Vista, Calif.
Application February 28, 1951, Serial No. 213,191
4 Claims. (Cl. 155—42)



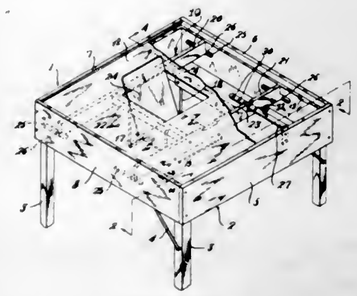
1. A combination high chair, ladder and stool construction comprising a base having a plurality of open ended tubular sockets therein and including a pair of front and a pair of rear legs, braces extending between said legs, horizontally disposed, vertically aligned steps secured to said front legs and a platform supported by said legs; a back rest and a tray, rod means depending from said back rest and said tray and being removably seated in said tubular sockets, said back rest and said tray being disposed above said base, said platform forming a seat for said back rest and one of said steps forming a foot rest for said seat.

2,669,286
SWING
Robert M. Rink, Goshen, Ind., assignor to The Goshen Manufacturing Company, Inc., Goshen, Ind.
Application November 20, 1950, Serial No. 196,562
2 Claims. (Cl. 155—63)



2. In a swing, the combination of a support comprising a crossbar, crossarms disposed in spaced relation on the underside of said crossbar and fixedly secured thereto, bowed hanger and brace rods disposed over said crossbar and fixedly secured thereto and to the crossarms adjacent their ends, pairs of hanger rods pivotally mounted on the cross arms, a platform pivotally mounted on the lower ends of said hanger rods with the corresponding hanger rods in spaced parallel relation, seat bars disposed between the pairs of hanger rods and pivotally connected thereto in vertically spaced parallel relation to the platform, and seats mounted on the outer ends of said seat bars.

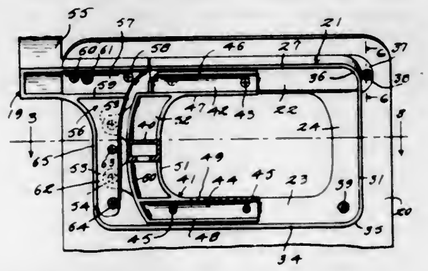
2,669,287
INFANT'S OR CHILD'S TABLE AND CHAIR
Alfred E. Puls, Cleveland, Ohio, and Edward R. Swenson, Metropolis, Ill., assignors to Babee-Tenda License Corporation, Cleveland, Ohio, a corporation of Delaware
Application May 10, 1949, Serial No. 92,261
12 Claims. (Cl. 155—123)



1. An infant's table and seat comprising an open centered frame, a top carried by said frame, said frame being rabbeted on a plurality of adjacent sides to form an inner ledge for support of said top thereon, pivotal bars on said top engageable with slots formed in said frame to secure said top thereto, said top having a hole

formed therein for receipt of an infant, a seat for an infant, a plurality of transversely extending rails extending across said frame, means connecting with said rails to form a unit therefrom, longitudinally extending tracks on the sides of said frame, the ends of said rails being engaged with said tracks for movement therealong to vary the position of said seat with relation to said opening, a longitudinally extending lock arm fixedly secured to said frame and extending in a direction of front to rear thereof, lock means carried by said unit for engagement with said lock arm to secure said unit in a given position, a pivotal release means carried by said unit and extending therefrom, said release means having a finger engageable with said lock arm for moving same and releasing said lock arm from said lock means.

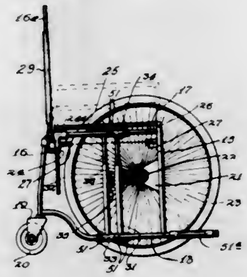
2,669,288
SCHOOL DESK SEAT SUPPORT
William James Bargen, Waukegan, Ill.
Application October 23, 1950, Serial No. 191,633
1 Claim. (Cl. 155—134)



In a seat structure having a base and a pedestal at one side of the base with a horizontally disposed U-shaped member on the upper end of the pedestal and an integral seat and back having a degree of flexibility, a rectangular seat support interposed between said U-shaped member and the seat, said support comprising front and rear members, opposite end members integral with said front and rear members, upstanding flanges carried by said front and opposite end members, said flanges having cutouts in the upper edges thereof between the ends of each end member whereby said seat is supported only at the four corners of said support and may flex between said corners, outwardly projecting ears disposed at the junction between said front and opposite end members and having the upper surfaces thereof coplanar with the upper edges of said flanges, and means engaging through said ears and the remaining corners of said support securing said support to said seat.

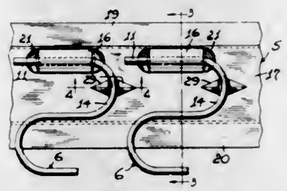
2,669,289
FOLDING CHAIR
John A. Usher, John R. Usher, and James F. Usher, Chicago, Ill.
Application September 1, 1948, Serial No. 47,304
23 Claims. (Cl. 155—140)

12. A structure having a pair of upstanding side frames having fixedly spaced upper and lower portions, a pair of crossed diagonal braces extending transversely between the frames and with ends pivotally secured to said frame portions, each brace composed of a pair of sections adjustable longitudinally relative to each other, series of longitudinally spaced pivot-providing elements carried by similarly positioned ones of said sections to connect them pivotally to each other, said elements being adapted to cooperatively register in pairs at the crossing point of the braces according to changes in the spacing of the frames, means to fix the sections of each brace at given points of adjustment and cooperating with the operatively functioning pair of



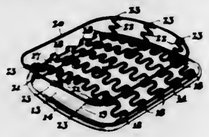
pivot-providing elements to hold the side frames in an adjusted relationship, said means including an aperture in one section of one brace only, a series of openings in the other section of said particularly mentioned brace and spaced according to said points and selectively registerable with said aperture by the corresponding adjustment of the sections of said particularly mentioned brace, and a stop pin movable by way of the registering opening to enter the aperture and fix the sections against relative movement.

2,669,290
SINUOUS SPRING ATTACHING MEANS
William H. Neely, Cleveland, Ohio, assignor to The Universal Wire Spring Company, Cleveland, Ohio, a corporation of Ohio
Application July 29, 1948, Serial No. 41,375
4 Claims. (Cl. 155—179)



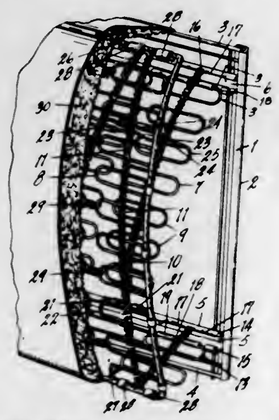
1. In a spring structure the combination of sinuously corrugated wire springs formed at their ends with straight attachment members rectangularly related to the axes of said springs, and a frame including oppositely arranged, channeled supporting members formed with axially aligned, upwardly extended trunnions, and pairs of cooperating struck-up portions arranged in the walls of said supporting members and axially offset with respect to said trunnions, said trunnions having the attachment members of said wire springs extended therethrough and each trunnion cooperating with one pair of said struck-up portions arranged to engage opposite sides of a curved wire portion of one of said springs threaded through the trunnion to prevent lateral shifting of such spring when seated on said supporting member and engaged with the trunnion.

2,669,291
CUSHION CONSTRUCTION
Alfred C. Hoven and Walter E. Nordmark, Grand Rapids, Mich., assignors to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application May 18, 1950, Serial No. 162,741
3 Claims. (Cl. 155—179)



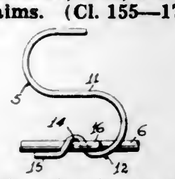
2. A cushion comprising, in combination, a foundation, a plurality of sinuous spring elements spanning the foundation from side to side, a resilient border wire extending peripherally around the interior of the cushion at a higher level than said spring elements, a connecting element extending forwardly-upwardly from the forwardmost spring element for supporting the border wire at the front, and another connecting element extending rearwardly-upwardly from the rearwardmost spring element for supporting the border wire in the rear.

2,669,292
SPRING CUSHION ASSEMBLY
Vito Asaro and Edward P. Krajewski, Detroit, Mich., assignors to L. A. Young Spring & Wire Corporation, Detroit, Mich.
Application September 17, 1951, Serial No. 246,922
10 Claims. (Cl. 155—179)



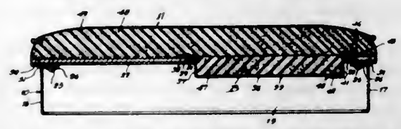
1. A spring assembly comprising a base frame including angled crossbars disposed in spaced parallel relation, opposite longitudinal edge portions of each bar providing arms with one of the arms projecting outwardly away from the base frame, the arms of the crossbars terminating in curved flanges disposed at an angle to the arms and having notches therein aligned with each other, the reaches of the flanges between the notches constituting opposed clips, a plurality of outwardly bowed main and supplemental spring units, each comprising strands of wire having longitudinally spaced oppositely disposed loops therein of substantial length extending transversely of the length of the unit and having reaches between the loops disposed lengthwise of the unit in side by side relation, the ends of the strands terminating in opposed laterally extending fingers, and a helical tie member threaded upon said reaches, the main spring units being inwardly and reversely bent at one end providing springable supporting arms, the main spring units each having the reaches of the strands thereof disposed between adjacent clips of the outwardly projecting arms of the angled crossbars and having the loop portions of the strands adjacent said reaches fulcrumed within said adjacent clips, the fingers of the main spring units being retainingly engaged with the adjacent clips of the other arms of the crossbars, the fingers at one end of the supplemental spring units being secured to corresponding loops of the main spring unit, struts disposed in spaced relation to the ends of the supplemental spring unit and secured at their outer ends to corresponding loops thereof and at their inner ends to corresponding loops of the main spring units, and top border members connected to the free ends of said supplemental spring units and to said main spring units at the juncture thereof with their said supporting arms.

2,669,293
WIRE SPRING AND WIRE SPRING STRUCTURE
William H. Neely, Cleveland, and William C. Sandor, Solon, Ohio, assignors to The Universal Wire Spring Company, Bedford, Ohio, a corporation of Ohio
Application October 20, 1951, Serial No. 252,284
11 Claims. (Cl. 155—179)



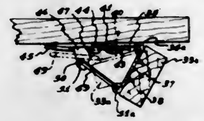
1. In a wire spring structure a wire supporting rod and a sinuously corrugated, flat, wire spring member removably, non-rotatably coupled with and supported by the wire supporting rod, said wire supporting rod including integrally formed therewith an open loop arranged in offset relation with respect to the axis of said wire supporting rod, and said wire spring member including at its end a cross member formed between its ends with an open loop arranged in offset relation with respect to the axis of said cross member, said open loops of the wire supporting rod and wire spring member being interengaged in angular relation with respect to each other and a locking portion on said cross member to non-rotatably couple and lock the wire supporting rod and wire spring member in predetermined position to each other.

2,669,294
CHAIR SEAT CUSHION STRUCTURE
John S. Burdick, North Muskegon, Andrew B. Nevins, Muskegon, and Jack C. King, North Muskegon, Mich., assignors to The Shaw-Walker Company, Muskegon, Mich., a corporation of Michigan
Application May 28, 1952, Serial No. 290,498
2 Claims. (Cl. 155—179)



1. A chair seat cushion unit comprising a base of substantially flat rigid material, said base having a generally rectangular depressed area in its rear portion spaced from the rear and side margins, respectively, of said base and with its front boundary defined by an upright wall disposed substantially one-half the distance from the front to the rear margins of the latter, said area approximating that which supports the ischia of an adult occupant seated in normal upright position in the chair, and cushioning material filling said depressed area and also overlying said depressed area and surrounding portions of said base.

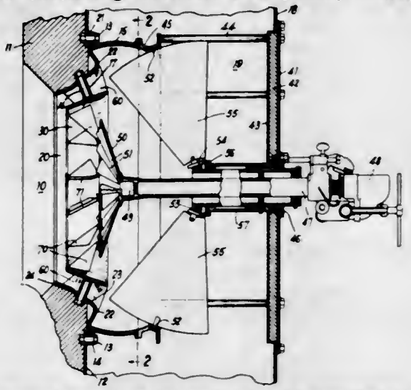
2,669,295
KNOCKDOWN CHAIR
William L. Shepherdson, Phoenix, Ariz., assignor of sixty-six and two-thirds per cent to J. E. Meacham, Phoenix, Ariz.
Application November 13, 1951, Serial No. 255,979
7 Claims. (Cl. 155—196)



1. In an article of furniture comprising a chair structure having, a back member, and a pair of side frame members including front and back legs, means for interconnecting said back and side frame members, a seat member, dowel means in the top of the front legs of said side frame members engaging mating dowel holes in the under side of the front portion of said seat member, abutment surfaces on the rear portion of said seat member facing rearwardly and outwardly engaging the front and interfaces of the back legs of said side frame members, interconnecting front and rear rail members pivotally mounted on the underside of said seat member latchingly engaging the legs of said side frame members, and locking means interconnected between the underside of said seat and each of said front and rear rail members for holding said front and rear rail members in engagement with said legs of side frame members.

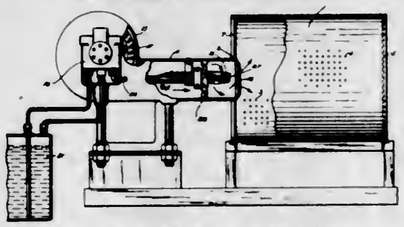
2,669,296
BURNER THROAT WITH AIR INLET ANNULUS DEFINED BY INTERNALLY BLADED CONE
Thomas B. Stillman, deceased, late of South Orange, N. J., by Eloise B. Stillman, executrix, South Orange, N. J., and Jacob A. Mason, Maplewood, N. J.
Application June 14, 1950, Serial No. 167,992
5 Claims. (Cl. 158—1.5)

1. In combination with a furnace wall having a fuel burner port therein and a liquid fuel burner nozzle constructed to discharge a stream of liquid fuel through said burner port; means for directing a portion of the combustion air immediately around the discharge end of said burner nozzle nad through the burner port; means disposed in the burner port and dividing the remainder of the combustion air into a primary air stream having a substantially circular cross section at its exit from the port, and an annular secondary air stream, said means comprising a first truncated cone shaped port ring member disposed within the burner port and a second truncated cone shaped ring member mounted concentrically around the first ring member and defining the peripheral surface of the burner port; said first ring member forming a primary air passage embracing the fuel stream and being smaller in diameter than said second ring member to form therewith a secondary air passage embracing the primary air passage; a first series of deflector vanes on the inner surface of said first ring member; a second series of deflector vanes extending between and jointly engaging



the facing surfaces of each of said members; and each of said deflector vanes being arranged to extend at an oblique angle to the planes of the discharge ends of said members; and means limiting inward movement of the burner nozzle to a position in which its discharge end is located completely outwardly of said vanes and truncated cone shaped members.

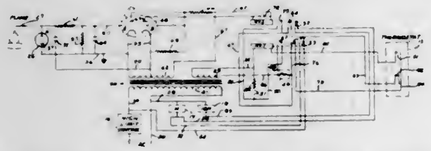
2,669,297
COMBUSTION METHOD AND APPARATUS
Ralston M. Sherman, Glastonbury, Conn., assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn., a corporation of Connecticut
Application September 10, 1949, Serial No. 115,090
11 Claims. (Cl. 158—4)



3. Oil burning apparatus comprising a combustion chamber in the form of a drum of thin heat refractory sheet metal capable of being heated to incandescence, such drum being exteriorly defined by lateral and end walls, the lateral walls being formed with perforations constituting substantially the sole means of escape of combustion products from said drum, said perforations not exceeding approximately 0.018 square inch in transverse cross-section and distributed over said lateral walls in spaced relation in such number as to present approximately from 0.05 to 0.14 square inch of total transverse cross-section per square inch of perforated surface, with the total area of such surface in square inches being arithmetically approximately from 15 to 35 per cent of the arithmetical value of the cubic contents of the drum expressed in cubic inches, one end wall of the drum having an opening; burner means for discharging into said drum through said opening atomized fuel oil mixed with sufficient air to support its combustion at

the rate of one gallon of such oil per hour for each 2300 to 4000 cubic inches of the cubic contents of said drum; said burner means comprising an oil atomizing spray nozzle associated with said opening, from which nozzle the oil is so discharged, and also comprising an air supply conduit associated with said opening and nozzle for supplying the air of such mixture, a pump for supplying said nozzle with the fuel oil and a blower for supplying said conduit with air, the nozzle being constructed to form an oil spray of such pattern that the flame produced by the burning of said mixture within the drum will be in out-of-contacting relation with all said walls of said drum, said air supply conduit constituting substantially the sole means of admitting air to said drum.

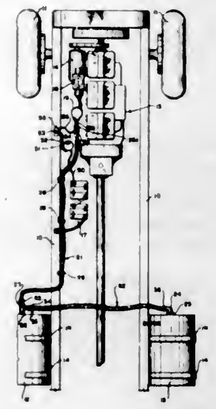
2,669,298
SAFETY CONTROL DEVICE FOR HEATING BURNERS
Joseph Basci, Brooklyn, N. Y.
Application February 20, 1951, Serial No. 211,924
1 Claim. (Cl. 158—28)



A control device for a heater burner installation, said control device including a thermostat and a normally de-energized electrically-controlled fuel feeding device, and comprising a power source, a first relay, circuit means for energizing said first relay by said power source in response to operation of said thermostat, a control circuit connected to said fuel feeding device, means for energizing said fuel feeding device in response to energization of said first relay, a thermal switch including an electrical heater in said first-named circuit means operative to de-energize said relay a predetermined time after energization thereof and thereby disabling said control circuit, an electronic amplifier including a control grid, a flame sensitive means for detecting the presence or absence of a flame in the burner connected in series with said control grid to vary the bias thereon in accordance with the presence or absence of the flame, a normally de-energized heater filament for said amplifier, means for energizing said heater filament upon energization of said first relay to render said amplifier tube operative, a further relay, means for energizing said further relay in response to operation of said amplifier in the presence of a flame, a normally-opened further control circuit including said means for energizing said heater filament in shunt with said thermal switch, and means for closing said further control circuit only in response to simultaneous energization of said first relay and said further relay.

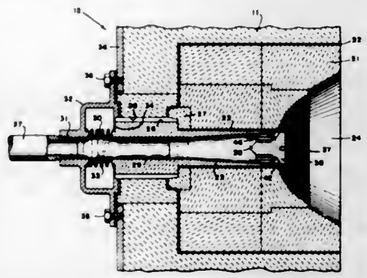
2,669,299
FUEL LINE AND THE LIKE AND MEANS FOR HEATING THE SAME
Benjamin F. Roach, Denver, Colo.
Application April 13, 1950, Serial No. 155,625
3 Claims. (Cl. 158—36)

1. For use with a self-propelled vehicle the combination of a diesel power unit, a fuel supply tank remote therefrom, and a fuel supply line comprising: fuel conduit means of heat-insulating dielectric material extending between and connecting the tank and power unit for supplying fuel to the latter, said conduit means being exposed to atmospheric temperature throughout a major portion of its length; a low voltage electric wire heating element disposed within the



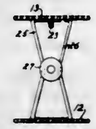
interior of said conduit means and extending throughout the length of the latter; and means connected to said heating element for supplying electric power thereto for raising the temperature of fuel within said conduit sufficiently to enable free flow thereof.

2,669,300
CERAMIC DISTRIBUTOR FOR RADIANT GAS BURNERS
Emil Blaha, Cheltenham, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application March 11, 1950, Serial No. 149,086
10 Claims. (Cl. 158—116)



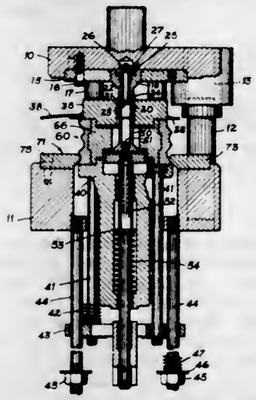
1. A distributor for use in a fluid fuel burner comprising a cylindrical head portion having a plurality of slots extending radially inward from the periphery thereof, a part of each slot being surrounded by the material of said head portion, a substantially cylindrical stem portion extending axially from said head portion and having a plurality of passages surrounded by the material of said stem portion, said passages extending axially from an end of said stem portion to a point adjacent to the inner end of said slots, and one of said stem or head portions being provided with an annular channel connecting with each of said slots and each of said passages whereby fuel can flow through said passages to said channel and out of said slots.

2,669,301
VENETIAN BLIND
Charles S. Evans, Atherton, Calif., assignor to Calnetian Blinds, Incorporated, Oakland, Calif., a corporation of California
Application October 14, 1946, Serial No. 703,182
3 Claims. (Cl. 160—178)



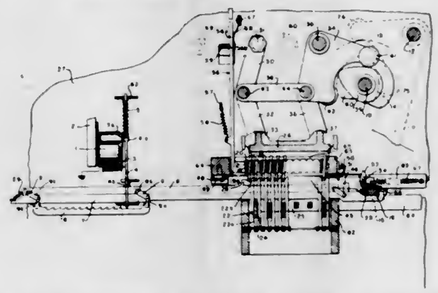
1. A ladder tape for a Venetian blind comprising spaced webs, twin rung tapes spaced apart and connected at their ends to the webs, and a fastener element bridged across the twin tapes intermediate their ends, the distance between the twin tapes at the fastener element being less than between their ends.

2,669,302
CAM OPERATED TRIMMING DIES
Charles M. Brehm, Springfield, Ohio, assignor to The Steel Products Engineering Company, Springfield, Ohio, a corporation of Ohio
Application May 8, 1950, Serial No. 160,655
2 Claims. (Cl. 164—47)



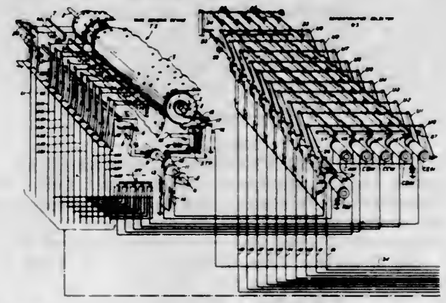
1. In combination, a pair of cooperating trimming dies mounted for movement in translation and adapted to receive a blank to be trimmed in response to relative lateral shifting movements therebetween, means for mounting one of said dies in laterally fixed position, a cam block assembly having a plurality of angularly related faces, means for mounting the other said die on said cam block assembly for lateral movement therewith, a cam on each of said faces with a pattern of projections thereon including at least two projections at different levels, one of said projections being at the same level as a projection on one adjacent face and the other said projection being at the same level as the projection on another adjacent face of said cam block assembly, a plurality of fixed cams cooperating respectively with the cams on each of said faces to shift said cam block assembly laterally in different directions at each of said different levels during said translatory movement, said pattern of projections being such that at each of said levels a pair of said fixed cams cooperate with and engage the cams of two adjacent faces of said cam block developing a lateral shift thereof corresponding in direction and amount to the vectorial resultant of the forces developed by said individual cams, each of said fixed cams cooperating with different ones of the other cams on said cam block at said different levels to provide successive lateral shifting movements of said cam block in different directions at different levels under the combined action of a pair of cams at each level.

2,669,303
RECORD CONTROLLED PERFORATING MACHINE
Henry A. Hendrich, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 20, 1951, Serial No. 232,502
11 Claims. (Cl. 164—115)



1. In a punching machine, a row of punches, a row of interposers, one interposer for each punch, each having a normal ineffective position and movable to an active position for operating the selected punch, a slide assembly including a selecting element and a support member upon which said element reclines, means for moving said assembly along said row of interposers with a continuous movement, with respect to any selected interposer, selectively effective means for causing said element to leave its reclining position on said support member and engage any of said interposers during said continuous movement to move the same to its active position, and means for thereafter causing the selected interposer to operate its related punch.

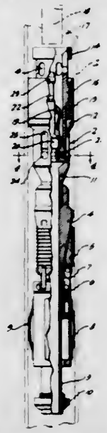
2,669,304
RECORD CONTROLLED REPRODUCING SYSTEM
Warren W. Carpenter, Garden City, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 1, 1946, Serial No. 666,280
11 Claims. (Cl. 164—115)



1. The method of classifying record intelligence comprising groups of intelligence charac-

ters, which consists in simultaneously transmitting a group of intelligence characters to each one of a plurality of reproducing instruments, and selecting according to a character in said group one of said instruments for reproducing all the characters in the group.

2,669,305
RETRIEVABLE CEMENTING PLUG
Elmo L. Condra, Long Beach, Calif.
Application November 20, 1951, Serial No. 257,239
4 Claims. (Cl. 166—12)



1. A retrievable cement plug operated on pipe and comprising a tube, wall engaging means on said tube, a fitting mounted on the upper end of said tube, an annular packing cup mounted on said fitting, a tubular head slidably mounted in said fitting and extending through said packing cup, releaseable means on said tubular head to support the plug on the pipe, and a cam on said head engageable with the packing cup to press said cup outwardly, and a valve seated in said tubular head.

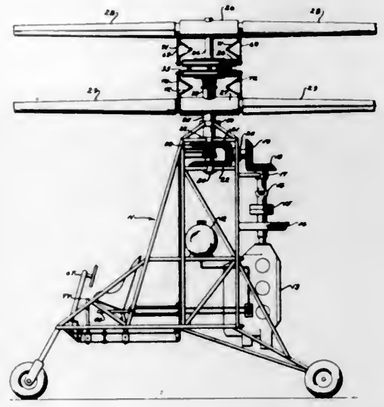
2,669,306
PETROLEUM PRODUCTION PROCESS
John W. Teter and Bernard S. Friedman, Chicago, Ill., assignors, by mesne assignments, to Sinclair Oil and Gas Company, Tulsa, Okla., a corporation of Maine
No Drawing. Application December 17, 1948, Serial No. 65,974
6 Claims. (Cl. 166—21)

1. In the recovery of oil from partially depleted oil-bearing formations, the improvement which consists of introducing a liquefied normally gaseous low molecular weight hydrocarbon to the formation through an input well while holding back pressure on an outlet well, forcing a layer of said liquefied hydrocarbon through the formation by means of water injection, and recovering gas and oil from the outlet well.

2,669,307
PETROLEUM PRODUCTION PROCESS
Ramon A. Mulholland, Hammond, Ind., and Bernard S. Friedman, Chicago, Ill., assignors, by mesne assignments, to Sinclair Oil and Gas Company, Tulsa, Okla., a corporation of Maine
No Drawing. Application June 13, 1950, Serial No. 167,926
2 Claims. (Cl. 166—21)

1. In the recovery of oil from partially depleted oil-bearing formations by introducing a liquefied normally gaseous low molecular weight hydrocarbon to the formation through an input well while maintaining back pressure on an outlet well, forcing the liquefied hydrocarbon through the formation by water drive and recovering oil and gas from an outlet well, the improvement which comprises maintaining the linear velocity of the combined drive through the formation at a rate below about 2 feet per day.

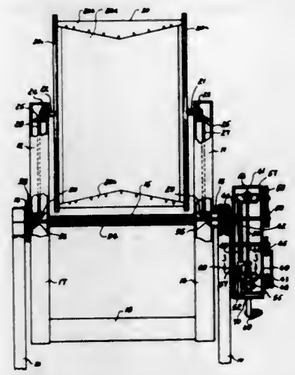
2,669,308
CONTROL SYSTEM FOR COAXIAL HELICOPTER BLADES
Alan C. Thomson, Manhattan Beach, Calif.
Application August 3, 1950, Serial No. 177,545
2 Claims. (Cl. 170—135.24)
(Granted under Title 35, U. S. Code (1952), sec. 266)



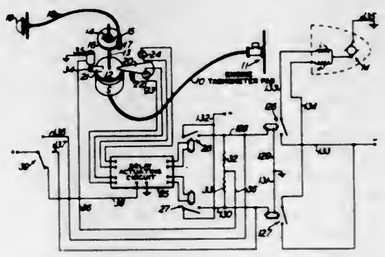
1. In a rotary wing aircraft, a pair of coaxial contra-rotatable shafts, a set of blades for each of said shafts, an intermediate shaft rotatably and slidably supported between said coaxial contra-rotatable shafts, a control head connected to said intermediate shaft and including a pair of spaced, movably mounted ring support members, a control ring rotatably mounted in each ring support, means connecting said rings and said sets of blades, respectively, means connected with said intermediate shaft for reciprocating said intermediate shaft and said head to change the total pitch of the blades of both of said sets in the same manner, and means forming a part of said head and operatively connected to said ring supporting members for tilting said head to change the cyclic pitch of the blades of both sets in the same manner, and for altering the spacing between said members to change the pitch of one set of blades with respect to the other.

2,669,309
VANE PROPELLER
Arthur L. Akre, Vancouver, British Columbia, Canada
Application September 6, 1949, Serial No. 114,259
12 Claims. (Cl. 170—143)

1. A vane type propeller comprising supporting means adapted to rotate around a central axis, a vane pivotally mounted substantially midway between its ends on the supporting means on an axis spaced from the central axis, said vane including a flexible body secured at the opposite ends of the vane and adapted to belly out on either side of the plane of the latter, and means including gear means connected to the vane for imparting a planetary motion to the vane about its axis during rotation of the supporting means, the flexible body of the vane bellying out from one side of the plane thereof during part of its revolution and from the opposite side during the remainder of the revolution.

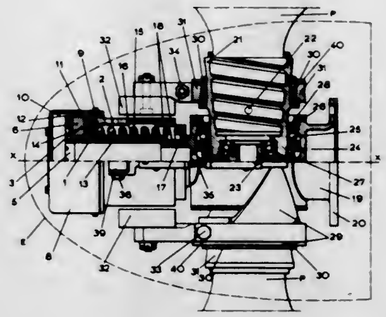


2,669,310
AUTOMATIC CONSTANT SPEED GOVERNOR FOR ENGINES DRIVING VARIABLE PITCH PROPELLERS
Robert Haskins, Richmond, Va., assignor to Flight Research, Inc., a corporation of Virginia
Application May 17, 1950, Serial No. 162,475
11 Claims. (Cl. 170—160.2)



2. In an automatic constant speed governor for an engine driving a controllable pitch propeller, an electrical propeller pitch changing motor having a pitch increase winding and a pitch decrease winding; a first circuit for energizing said increase winding; a first normally deenergized control relay, said relay being arranged to complete said first circuit only when said relay is energized; a second circuit for energizing said decrease winding; a second normally deenergized control relay, said relay being arranged to complete said second circuit only when said second relay is energized; a movable control element; engine speed responsive means for applying a positioning force to said control element, the magnitude of said positioning force being proportional to true engine speed; manually adjustable means for applying a biasing force to said control element in opposition to said positioning force and proportional to desired engine speed; electrical means responsive to the position of said control element for energizing only said first relay when said positioning force predominates and for energizing only said second relay when said biasing force predominates, and electrical safety means for preventing completion of either of said circuits when both of said control relays are simultaneously energized, said safety means including a safety relay having normally open contacts in one of said circuits, and energizing means for said safety relay including contact means opened whenever the control relay for the other of said circuits is energized.

2,669,311
AUTOMATIC SCREW PITCH CHANGE AND LOCKING DEVICE
Maxime de Lagrevol, Paris, and Roger Laboureix, Neuilly-sur-Seine, France
Application November 25, 1950, Serial No. 197,571
Claims priority, application France November 29, 1949
6 Claims. (Cl. 170—160.16)



1. A variable pitch propeller having a hub, blades swivelly connected thereto permitting rotation about a geometrical axis perpendicular to the axis of said hub, a weighted member for each of said blades, means for securing said weighted members on each of said blades in such a manner that the centrifugal action of said weighted members urges the blades to increase the pitch, a slide-block coaxial with and slidingly associated for relative axial movement with said hub, mechanical connecting means between said slide-block and each of said blades for urging said slide-block rearwardly when the pitch increases, yielding means associated with said hub and slide-block for resisting the rearward movement of said slide-block, locking means for said slide-block comprising at least a weight associated for radial movement with one of the two members of the group consisting of said hub and said slide-block, stopping means for said weight, secured to the other member of said group and having a forward cylindrical surface parallel to the axis of said hub, a rear cylindrical surface parallel to said forward surface and at a shorter distance of said axis, a substantially radial surface joining the said forward and rear surfaces; spring means engaging said weight for urging said weight towards said axis, whereby said substantially radial surface stops said weight and consequently the rear movement of said slide-block when the speed of the propeller varies from a predetermined upper speed within a range of speeds comprised between said upper speed and a lower one, so that

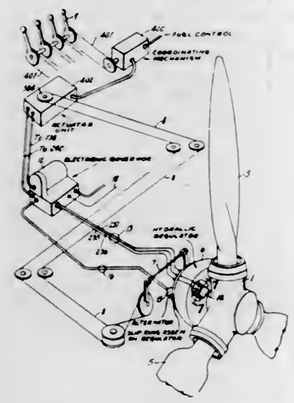
in this case the pitch of the propeller remains unvarying but varies freely in all other cases within said range of speeds as out of said range.

2,669,312

AIRCRAFT PROPELLER SPEED CONTROLLER

Albert P. Dinsmore and Robert C. Treseder, Dayton, James W. Light, Greenville, Howard M. Geyer, Dayton, and Joseph C. Whitmer, Bradford, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application May 24, 1949, Serial No. 94,984
29 Claims. (Cl. 170—160.17)



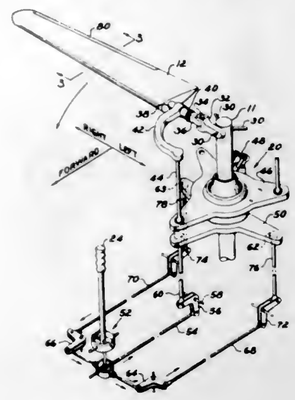
5. In control apparatus for adjustable pitch propeller components, the combination including; a servomotor for adjusting the pitch of an aircraft propeller, a source of hydraulic pressure for said servomotor, a solenoid operated valve for controlling the flow of hydraulic pressure to said servomotor, a source of alternating current electrical energy the amplitude and frequency of which is directly responsive to propeller speed, means deriving a pair of parallel circuits from said source of alternating current electrical energy, an electric bridge circuit having one input from one of said derived circuits and which is proportional in voltage to the speed of the propeller, said bridge circuit having a second input from the other of said derived circuits providing a preset reference voltage, a controllable frequency electronic oscillator, a discriminator circuit having an input from the oscillator and having an output that is a function of the difference in frequency between said source of alternating current and said oscillator, means actuated by said discriminator circuit output for modifying the first mentioned input to said bridge circuit, means connecting said bridge circuit to both of said derived circuits said bridge circuit having an output voltage that varies in magnitude and polarity with the difference in potential output of said pair of derived circuits, means providing an anti-hunt circuit, the output of which is a function of the rate of change of amplitude of the alternator voltage, means providing a pulse control circuit, the output of which controls the operation of said solenoid valve, means including the output of said bridge circuit for regulating the pulse control circuit and means including said anti-hunt circuit for modifying the control of the pulse control circuit by said electrical bridge to thereby actuate said solenoid valve.

2,669,313

HELICOPTER ROTOR

Ralph B. Lightfoot, Stratford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application January 18, 1947, Serial No. 722,891
13 Claims. (Cl. 170—160.25)



1. A rotary wing aircraft including, in combination, a rotor including a rotatable shaft, a rotor hub carried by said shaft having a plurality of dynamically and aerodynamically balanced blades pivotally mounted on said hub for pitch changing movement about their longitudinal axes, pilot operated control means for cyclically changing the pitch of said blades including a manually operable control member having an operative connection to each blade through which forces can be transmitted from said control member to said blades, said blades having an airfoil cross section and having an upswept trailing edge which is rigid in flight producing a blade pitch increasing moment which increases with increased speed of said aircraft and results in a force on said control member to move the latter in a direction opposite to the direction of flight, each of said blades also having its aerodynamic center located a substantially constant chordwise distance in advance of its axis of pitch change throughout the major portion of the span of the blade for producing a lateral stabilizing force on said control member which increases with increased translational velocity of said aircraft in an outboard lateral direction toward the side of the rotor on which a blade is advancing.

2,669,314

WAREHOUSE TYPE TRACTOR WITH TRAILER COUPLING DEVICE

George F. Quayle, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut

Application September 22, 1951, Serial No. 247,800
19 Claims. (Cl. 180—12)

1. In a tractor of the class described, a steering head, a drive wheel in said steering head supporting one end of said tractor, additional wheels for said tractor, means mounting said additional wheels for upward and downward movement relatively to said tractor, means holding said additional wheels downwardly relatively to said tractor on said mounting means whereby to support the other end of said tractor, coupling means, means mounting said coupling means for coupling

movement, power means for moving said coupling means on their mounting means for coupling with a part of a trailer, and means whereby said power means moves said additional wheels



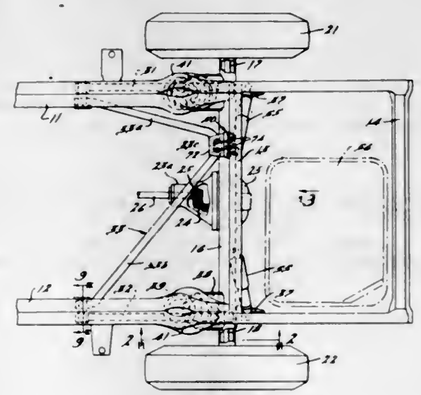
upwardly on their mounting means after first moving said coupling means to effect support of said other end of said tractor on the trailer through said coupling means.

2,669,315

TORQUE COMPENSATED LINK SUSPENSION

John P. Butterfield, Grosse Pointe Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application April 12, 1952, Serial No. 282,028
8 Claims. (Cl. 180—71)



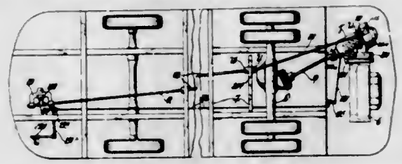
1. In a motor vehicle, a chassis frame, a rigid wheel axle carrier including a drive pinion and engaged ring gear, said carrier extending transversely of and beneath a portion of said chassis frame, resilient means extending between the chassis frame and said carrier, a pair of rigid links extending longitudinally of the chassis frame and drivingly connected between the carrier and the chassis frame at opposite sides thereof, and a V-shaped torque compensating link connecting a portion of the axle carrier, that is offset from the center of length thereof towards the drive pinion side of the ring gear, with portions of said chassis frame located forwardly of the axle carrier, said V-shaped link being disposed in a plane that extends transversely of the chassis frame and slopes forwardly and downwardly from a position located above the axle carrier, the V-shaped link having the apex portion thereof connected to the said offset portion of the axle carrier and the spaced apart free ends of the link legs thereof connected to forwardly disposed portions of the chassis frame.

2,669,316

REMOTE-CONTROL SYSTEM FOR GEAR SHIFTING IN ANGULARLY DISPOSED VEHICLE TRANSMISSIONS

Hans O. Schjolin, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original application November 5, 1945, Serial No. 626,680. Divided and this application May 1, 1947, Serial No. 745,291
20 Claims. (Cl. 180—77)



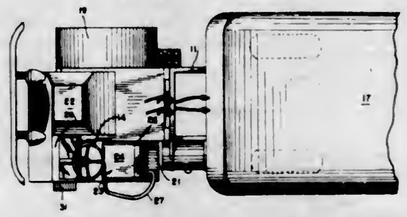
1. In a motor vehicle having a power plant drive assembly, a driver's station remote from said drive assembly, a transmission control support member located in said station and supported by said frame, bearings in said member and an elongated master shifter shaft supported in said bearings for longitudinal and rocking motion; a shift gear transmission unit associated directly with said assembly, a casing for said unit, gear ratio control means for said transmission operated by said shaft, said means including gear shifting mechanism movable rotatably and axially for engaging and releasing selected ratio drive elements of said transmission and connected to, and controlled by, said shaft, said mechanism being supported in said casing for such rotational and axial motion, a gear lever fulcrumed at one end upon said support member having a pivot for rocking motion in the longitudinal direction and in the direction of rock ing of said shaft, and a crank fitting attached to said shaft and having a pivoted link swiveled to said lever at a point above said support member pivot, the arrangement providing a paralleling of the motion of said lever in both said directions in the motion of said shaft.

2,669,317

TRACTOR FOR SEMITRAILERS AND THE LIKE

Raymond A. Cellen, Denver, Colo., assignor to The American Coleman Company, Omaha, Nebr., a corporation of Nebraska

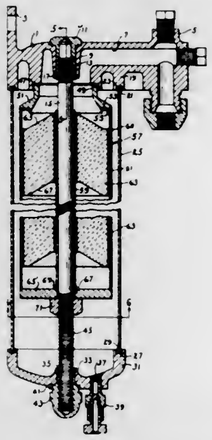
Application October 4, 1951, Serial No. 249,665
3 Claims. (Cl. 180—89)



2. A tractor for hauling semi-trailers and the like, comprising a generally rectangular frame, a fifth wheel on the rear portion of the frame for engagement with the corresponding member on a semi-trailer, front and rear road wheels on the frame, said rear road wheels defining a maximum tractor width approximately equal to the width of said semi-trailer, left and right front fenders on the frame over the front road wheels, an operator's station including a seat on

the upper surface of the left front fender, said station being open on the top and on three sides and closed by a front wall containing a windshield, whereby the operator is afforded unobstructed vision on the open sides and top and within the limits defined by the windshield, the outer extremity of said seat being approximately in the same vertical plane as the outer extremity of the left rear road wheel, an operator's foot rest secured to the left front fender below the operator's seat and projecting forwardly and upwardly therefrom, operating controls including steering, clutch, brake and throttle controls projecting upwardly through the foot rest towards the operator's station, a step secured to the left front fender below the foot rest, an engine hood between the inner side of said seat and the right front fender, the top of said hood being disposed below the line of vision of an operator seated in the operator's seat.

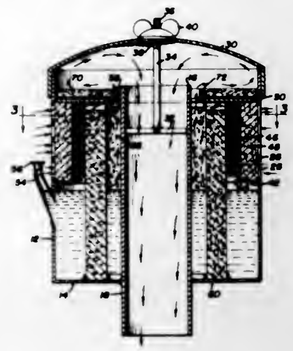
2,669,318
FILTER AND ADSORBER FOR FLUID TREATMENT
Southwick W. Briggs, Washington, D. C.
Application December 7, 1950, Serial No. 199,647
10 Claims. (Cl. 183—4.4)



1. A refill for an adsorber comprising a tube, a number of integral, porous blocks of frangible adsorbent material disposed in the tube in spaced relation therealong and means for sealingly holding the blocks in the tube, the contiguous surfaces of adjacent blocks being formed so that one of said surfaces defines a cavity and the other defines a protuberance.

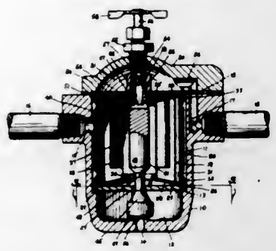
2,669,319
CARBURETOR AIR CLEANER AND HUMIDIFIER
Joseph Inglesby, Brooklyn, N. Y.
Application November 19, 1951, Serial No. 257,016
2 Claims. (Cl. 183—17)

1. A vaporizer comprising a cylindrical container, a tubular member forming a passage extending axially through said container, a bottom in said container secured in fluid tight relation to said tubular member, the upper side wall portion of said container having a plurality of perforations therein, a cover on said container, said cover being spaced from the end of said tubular member whereby air may pass through said perforations and through said chamber into said tubular member, an annular flange secured to the wall of said container below the perforated portion, an annular screen secured on said flange and extending upwardly in spaced relation to the perforated portion of said wall, a filling of filter material in the space between said annular screen and said perforated wall, the bottom portion of said container being adapted to hold



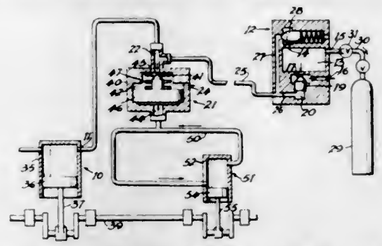
water, an annular cylinder of water conducting material extending between said wall of said container and said tubular member, said annular cylinder being spaced from said side wall and from said tubular member, an annular top in said container, said top extending in spaced relation to said tubular member, said annular cylinder extending into contact with said top, the top of said cylinder being serrated to provide passages between said cylinder and said top.

2,669,320
WATER SEPARATOR AND FILTER FOR AIR PRESSURE LINES
Paul B. Shaw, Iowa City, Iowa
Application August 26, 1949, Serial No. 112,626
7 Claims. (Cl. 183—42)



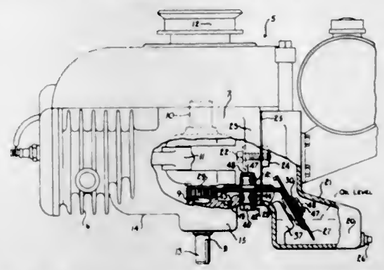
1. In a device of the class described, a housing having an air inlet opening, an air outlet opening and a water outlet opening, a flexible wall inside said housing dividing said housing into two compartments one of which communicates with said air inlet opening and the other with said air outlet opening, a pressure differential operated valve in said housing secured to and extending through said flexible wall capable of closing said water outlet opening at times, an air passageway in said valve having one end communicating with one compartment and its other end communicating with the other said compartment, and an adjustable valve means in said air passageway in said first mentioned valve.

2,669,321
COMPRESSOR SYSTEM AND MOISTURE SEPARATOR THEREFOR
Albertus E. Schmidlin, Caldwell, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application February 6, 1952, Serial No. 270,245
18 Claims. (Cl. 183—42)



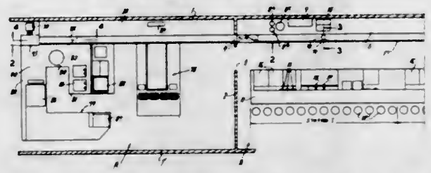
1. In a compressor system of the class described, the combination of a compressor having an outlet; a storage receptacle to which compressed fluid from said compressor is to be supplied; a moisture separator having an inlet, an outlet connected to said receptacle, a drainage outlet and a valve for said drainage outlet including pressure operable means for normally closing said valve; conduit means connecting said compressor outlet with said separator inlet and said pressure operable means; a valve having an inlet connected with said compressor outlet and having a venting outlet; and means under the control of said compressor operable to effect closing and opening of said last mentioned valve.

2,669,322
SPLASH TYPE LUBRICATING DEVICE FOR SINGLE CYLINDER HORIZONTAL INTERNAL-COMBUSTION ENGINES
Hugh S. Brown, Wauwatosa, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application June 30, 1952, Serial No. 296,393
6 Claims. (Cl. 184—13)



1. In an internal combustion engine having a vertical crankshaft journalled in axially aligned top and bottom bearings, a crankcase and a horizontal cylinder at one side of the crankshaft: means defining an oil sump in open communication with the interior of the crankcase and having a portion thereof near the bottom bearing of the crankshaft; a rotatable oil slinger; means rotatably mounting the slinger with its axis disposed at an acute angle to an axis parallel to that of the crankshaft and with part of the slinger disposed in that portion of the oil sump near the bottom bearing and extending beneath the normal oil level; and a geared driving connection between the crankshaft and said rotatable slinger, so that the slinger rotates during operation of the engine and acts to throw oil from the sump upwardly into the crankcase interior to lubricate the moving engine parts therein.

2,669,323
FOOD SERVICE SYSTEM AND MEANS THEREFOR
Frank T. Hilliker, St. Louis, Mo., assignor to The Fountron Corporation, St. Louis, Mo., a corporation of Missouri
Application August 4, 1952, Serial No. 302,595
3 Claims. (Cl. 186—1)

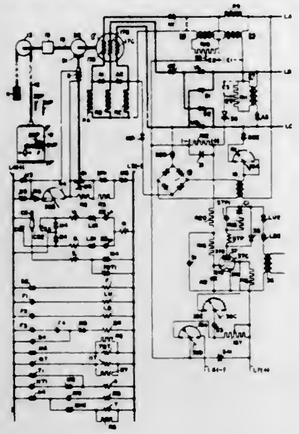


1. A food service system for use in a restaurant-like establishment having a kitchen area and a customer-service area, said system comprising an elongated counter having a plurality of seats for accommodating customers, said counter and seats being arranged in a series of stations, a back bar mounted in rearwardly spaced parallel relation to the counter, a complete set of fountain-service equipment at each station, a continuous belt conveyor extending from the kitchen area outwardly into the customer-service area past each station for conveying plates of prepared food to the stations, drive means for driving said belt conveyor, a light source at each station for directing a beam of light across said conveyor in upwardly spaced relation thereto, the beam at any given station passed by the conveyor as it moves from the kitchen area being spaced from the conveyor a smaller distance than any beam already passed by the conveyor and a greater distance than any succeeding beam, an electric eye at each station in position to receive the light beam at such station and being connected with said drive means to stop said conveyor when the light beam does not fall on the electric eye, and plate covers of different heights adapted to overlie the plates of food advanced by said conveyor, the height of a cover placed over a plate of food intended for a given station being such that the light beam at the given station will be broken by the cover upon the arrival of the cover at the given station and being such that the cover will pass under any light beam preceding the light beam at the given station in the direction of advance of the conveyor.

2,669,324
AUTOMATIC LANDING ELEVATOR SYSTEM
Alvin O. Lund, Great Notch, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 26, 1952, Serial No. 295,705
18 Claims. (Cl. 187—29)

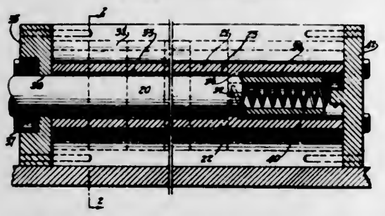
18. In a system for controlling a movable body, a structure, a body movable relative to the structure, motive means for moving the body relative to the structure, and control means for controlling movement of the body, said control means comprising stopping means operable for mechanically braking said body as it approaches a predetermined point at which it is to stop, means responsive to arrival of the body at a first predetermined position in advance of the predetermined point for partially operating the stopping

means, and means responsive to arrival of the body at a second predetermined position located between the first predetermined position and the point for modifying the operation of the stopping means to apply the mechanical braking of



the body in accordance with a function of the load presented by the body to the motive means for stopping the body accurately at the point regardless of the load represented by the body.

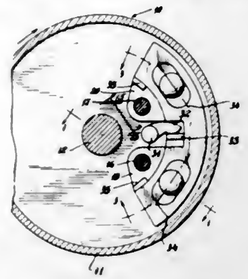
2,669,325
ENERGY ABSORBER
Arnold Raines, Philadelphia, Pa.
Application March 25, 1949, Serial No. 83,360
7 Claims. (Cl. 188—1)



1. In an energy absorber, a rod adapted to translate along a path and having kinetic energy to be absorbed, a pair of opposed ferromagnetic pole pieces extending along the rod and along its path of translation, the rod being between the pole pieces, and there being longitudinally extending gaps between the pole pieces, nonmagnetic means preventing escape of fluid between the gaps and forming an enclosure with the pole pieces around the rod, a fluid mixture including ferromagnetic particles in the enclosure and a magnet establishing a magnetic field between the pole pieces.

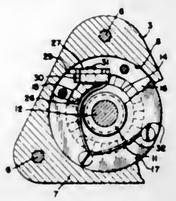
2,669,326
BRAKE
Heinrich Ernst Kniepkamp, Heilbronn (Neckar), Germany, assignor to Hanns P. Kniepkamp, Trumansburg, N. Y.
Application January 23, 1951, Serial No. 207,321
Claims priority, application Germany September 18, 1950
12 Claims. (Cl. 188—71)

1. A disc-type brake comprising a brake drum providing axially spaced, annular braking surfaces, at least one group of two angularly displaceable brake lining carriers disposed in said drum and carrying brake lining at the outer surfaces thereof for facial contact with said braking surfaces of the drum, the confronting inner faces of said carriers being formed with sloped grooves which are straight in planform and deepen in opposite directions, and rolling bodies received in said grooves to spread said carriers apart when the latter are relatively angularly displaced in the



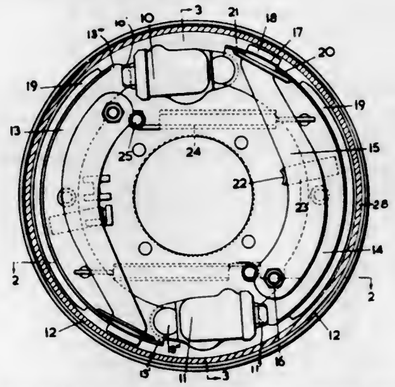
direction for moving said rolling bodies toward the shallow portions of the related grooves, each of said carriers being substantially in the form of less than one-half of a circular ring so that the carriers of each group can move radially relative to each other when said rolling bodies are moved along the related straight grooves by relative angular displacement of said carriers to prevent binding of said rolling bodies in said grooves.

2,669,327
AUTOMATIC CLEARANCE ADJUSTING MECHANISM FOR SINGLE-DISK, SPOT-TYPE BRAKES
Richard K. Chamberlain and Kenneth P. Hillegass, Akron, Ohio, assignors, by mesne assignments, to The Goodyear Tire & Rubber Company, a corporation of Ohio
Application August 23, 1951, Serial No. 243,336
4 Claims. (Cl. 188—72)



1. A brake assembly including a stationary member, a rotary member, a hollow cylindrical housing secured to the stationary member, a plunger slidably carried in the housing, a plug of frictional material secured to the plunger and adapted to frictionally engage the rotary member, an adjusting screw secured to the plunger and extending axially of the cylinder housing, an adjusting nut threadably engaging the screw, the adjusting nut having ratchet teeth formed on one face thereof, a cylindrical nut-holding member slidably carried within the housing, the adjusting nut being rotatably supported but axially secured to the nut-holding member, an adjusting lever pivotally carried by the nut-holding member, a ratchet pawl pivotally secured to the lever and adapted to engage the ratchet portion of the adjusting nut, an adjustable stop associated with the housing and adapted to engage the adjusting lever, spring means secured to the nut-holding member and engaging the pawl for holding the pawl in engagement with the ratchet portion of the adjusting nut and the associated adjusting lever in engagement with the stop, and brake actuating means for moving the nut-holding member axially of the housing to apply braking pressure between the plug and rotary member.

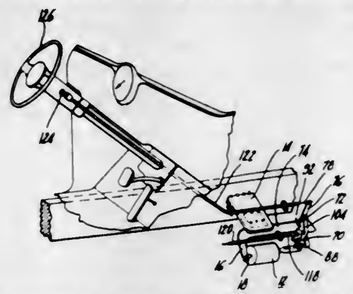
2,669,328
VEHICLE BRAKE
Thomas Kemp Mace, Birmingham, England
Application June 24, 1950, Serial No. 170,079
Claims priority, application Great Britain June 28, 1949
7 Claims. (Cl. 188—78)



1. A brake of the kind specified comprising an arcuate shoe mounted within a rotatable drum including a web, an arcuate flange and a friction lining carried by said flange, a stationary back-plate, an anchorage on the back-plate for one end of the shoe, an actuator on the back-plate engaging the other end of the shoe, a yieldable lever pivotally mounted at one end on the back-plate adjacent to the end of the shoe engaged by the actuator, a finger on the other end of the lever projecting through the flange of the shoe into engagement with the drum adjacent to the anchored end of the shoe, and an abutment on the shoe web for engagement by the lever at an intermediate point in the length of the said lever.

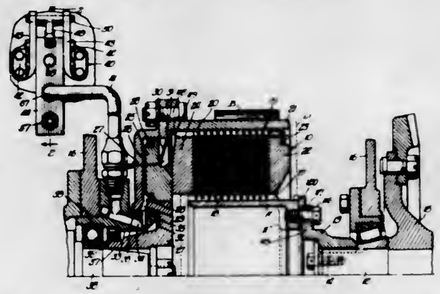
2,669,329
POWER BRAKE CONTROL
Earl B. Price, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application January 25, 1947, Serial No. 724,453. Divided and this application August 9, 1950, Serial No. 178,481
6 Claims. (Cl. 192—3)

1. For use in a vehicle having parking brake applying means and means for automatically and positively locking the parking brake applying means in applied position, in combination, a member movable in one direction to actuate the parking brake applying means and movable in the opposite direction to release the automatic locking means, a power device having a piston therein operatively connected with said member to control its movements in both directions, valve means arranged to control operation of the power piston, electro-magnetic means arranged to actuate said valve means, and a switch under the control of the operator and in the same electrical circuit as the electro-magnetic means, said switch being operable to cause said



locking means to be selectively actuated and released.

2,669,330
HYDRAULIC CONTROL FOR STEERING CLUTCHES
Oscar H. Banker, Evanston, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware
Application November 5, 1948, Serial No. 58,414
26 Claims. (Cl. 192—13)

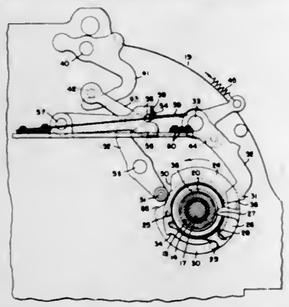


4. A hydraulic pressure reduction control valve comprising a valve housing having an internal bore, a pressure inlet opening to said bore and a pair of outlet openings to said bore, one of which is a high pressure port and the other of which is a dump opening, a valve element disposed for sliding movement in said bore to seal said inlet opening from said outlet openings, a pressure by-pass element coaxial with said valve element and slidable in said bore, said elements defining therebetween an annular by-pass port located between said outlet openings, spring means normally urging said elements in a direction to close said port, and manually operable means acting on one of said elements in a direction to open said port.

2,669,331
MOTOR CLUTCH
Charles G. Dudis and John F. Denlinger, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application April 20, 1950, Serial No. 157,042
7 Claims. (Cl. 192—17)

1. In a clutch mechanism for connecting a motor to a machine of the class which is started and stopped for each operation, the combination of a driving element operated by the motor; a driven element; a spring clutch spanning the driving element and the driven element, one end of said spring clutch being secured to the driven element

and the other end of the spring clutch being disconnected from both elements, said spring clutch tensioned to frictionally engage both of said elements to clutch the elements together; a collar secured to said driven member and spanning the outside periphery of said spring clutch; a disk rotatably mounted on said collar; a stop on the disk extending into the path of movement of the said



other end of the spring clutch and normally engaging the said other end of the spring clutch to maintain the spring clutch out of engagement with the driving element; and means to withdraw the stop from engagement with the said other end of the spring clutch to allow the spring clutch to frictionally engage both of said elements whereby the driving element operates the driven element.

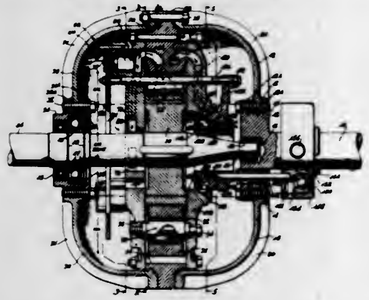
2,669,332

VARIABLE-SPEED HYDRAULIC COUPLING

Scott H. Gasche, Wichita, Kans., assignor to Thomas Hydraulic Speed Controls, Inc., Wichita, Kans., a corporation of Kansas

Application November 4, 1949, Serial No. 125,569

2 Claims. (Cl. 192—61)



1. In a variable speed hydraulic coupling comprising a rotatable casing partially filled with oil whereby, during its rotation, there is provided within the casing an outer annular zone of oil and an inner central zone of air, a driven member mounted for rotation coaxial with said casing, a gear pump type transmission mechanism within said casing having elements operatively connecting said casing to said driven member, said transmission mechanism including a plurality of fluid inlet ports and a plurality of fluid discharge ports: the improvement which consists in the provision of a manifold plate for said discharge ports arranged within said casing transverse to the axis thereof, and having an axially disposed cylindrical valve seat provided with a circumferential pressure-stabilizing groove in an inner cylindrical wall thereof disposed within the zone of air, passages in said manifold plate communicating with said discharge ports and with said pressure-stabilizing groove, a single cylindrical fluid discharge control valve mounted for axial movement on said valve seat within the zone of air, said valve being provided with lateral fluid discharge passages having inlet openings in the peripheral wall of said valve, and means connected to said valve extending exteriorly of said casing, operable during the rotation of said casing, for axially moving said valve whereby said inlet openings are progressively shifted relatively to said pressure-stabilizing groove to thereby meter the flow of fluid discharged from said pressure-stabilizing groove through said lateral passages into said casing, said valve being movable to a position wherein said inlet openings are not in registration with said pressure-stabilizing groove to thereby arrest the flow of fluid from said discharge ports.

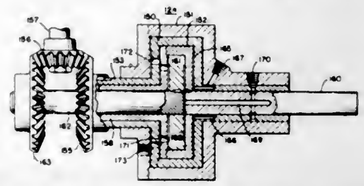
2,669,333

FLUID ENGAGED CLUTCH AND BRAKE

Clarence Johnson, Orfordville, Wis., assignor, by mesne assignments, to Rockwell Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application July 29, 1948, Serial No. 41,278

11 Claims. (Cl. 192—87)



1. A clutch mechanism comprising a housing, a driving and a driven element mounted within said housing for axial movement with respect to each other and having opposed end faces spaced from each other and providing first and second frictional surfaces engageable with each other and a fluid chamber therebetween; a power shaft connected to said driving element for rotating the latter; a shaft mounting said driven element for conjoint rotation therewith; means within said housing providing a third frictional surface; conduit means for selectively subjecting at least one of said elements to a source of fluid pressure for effecting relative axial movement of said elements to engage said first and second frictional surfaces; a fourth frictional surface within said housing, located on said driven element; and conduit means for selectively subjecting at least said one of said elements to a source of fluid pressure for effecting opposite relative movement of said elements with respect to each other to disrupt the driving engagement effected by said first mentioned conduit means and effecting engagement of said third frictional surface with said fourth frictional surface.

2,669,334

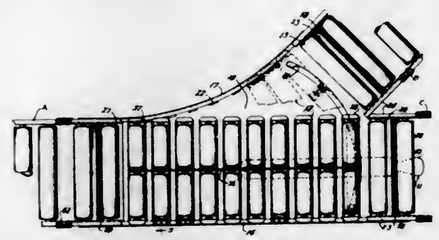
FLEXIBLE SWITCH FOR ROLLER CONVEYERS

Robert H. Metzgar, Grand Rapids, Mich., assignor to Metzgar Company, Inc., Grand Rapids, Mich., a corporation of Michigan

Application September 8, 1949, Serial No. 114,500

8 Claims. (Cl. 193—36)

7. A flexible conveyor including a relatively fixed roller unit, a controlled roller unit, a plurality of intermediate roller units between the two, a flat flexible band of stiff resilient material connecting the intermediate roller units with each other and with the relatively fixed and controlled roller units, said band extending through the axes of the roller units at approximately a mid point in the length of each roller unit, each roller unit being secured to the band in perpendicular relation thereto, a slab-like supporting surface on which said roller units, and through them the band, are slidably supported, and a curved beam supporting the supporting



surface and limiting the shifting movement of the intermediate roller units, whereby the series of intermediate roller units is wrapped about the beam to form a conveyor corresponding to its curvature, said beam including a flange extending toward said roller units and said intermediate roller units each including a flange which slips under the said flange of said beam as the roller unit approaches the beam.

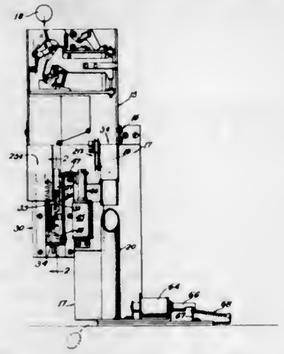
2,669,335

COIN CONTROL AND CHANGE APPARATUS

Sam May, Chicago, Ill., assignor of one-half to Raymond T. Moloney, Chicago, Ill.

Application June 11, 1945, Serial No. 598,832

10 Claims. (Cl. 194—10)



1. Coin control apparatus including a coin payout device, motor-driven control means for actuating said device, a coin-control unit for receiving a coin and moving said coin with respect to a plurality of positions, means actuated by a coin in a first one of said positions for initiating operation of said motor control means, means actuated by said motor control means following initial operation thereof as aforesaid for effecting movement of said coin from said first position to a second position in the control unit, means actuated under control of a coin in said second position for effecting a continued operation of said motor control means, and means actuated under control of said motor control means during said continued operation thereof for operating said payout device a desired number of times.

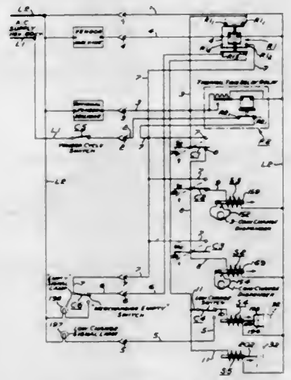
2,669,336

COIN CONTROLLED MECHANISM

Johnathon W. Hunsinger, Burlington, Vt., assignor to Bell Aircraft Corporation, Wheatfield, N. Y.

Application December 12, 1947, Serial No. 791,292

2 Claims. (Cl. 194—10)



1. In a coin controlled, electrically operated vending machine: a commodity reservoir; a commodity dispensing means; a coin deposit chute; first switch means located adjacent said chute and having a lever arm extending into said chute, whereby passage of a coin through said chute will momentarily depress said lever arm to actuate said first switch means; electric circuit means connecting said first switch means and said dispensing means to a source of electric power; said electric circuit means including an impulse circuit controlled by said first switch means and a locked-in circuit energized by said impulse circuit, whereby actuation of said switch means will initiate a commodity dispensing operation from said reservoir; second switch means in said electric circuit means and adapted to cut off the supply of electric power to said circuit means; and time delay thermal switch means in said impulse circuit and apart from said locked-in circuit and operatively connected to said second switch means; said thermal switch means being operably responsive to continued energization of said impulse circuit as a result of said first switch means being blocked by said lever arm remaining depressed, to operate automatically subsequent to a predetermined delay period to open said second switch means and consequently said circuit means so as to prevent continuous dispensing of commodities from said reservoir.

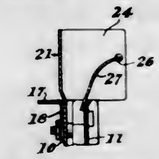
2,669,337

COIN HOPPER

Wilson Marks Stewart, Ottawa, Ontario, Canada

Application April 4, 1952, Serial No. 280,539

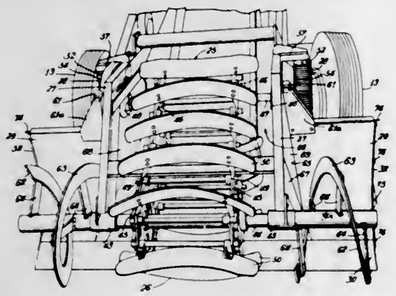
4 Claims. (Cl. 194—97)



1. In combination with a coin chute of the type having a vertically pivoted forwardly swingable gate, a vertical coin hopper disposed above said coin chute and arranged to feed coins thereto; said coin hopper comprising a first member, two

side members extending forwardly from said first member, and a rearwardly sloping member pivotally supported near its upper edge between said side members; the pivot point of said sloping member in each side member being positioned forward of said swingable gate and near the edge of said side member which is remote from said first member; the lower edge of said sloping member being in resting engagement with the upper edge of said swingable gate so that when said swingable gate is given a substantially sudden motion a fluttering action is imparted to said sloping member.

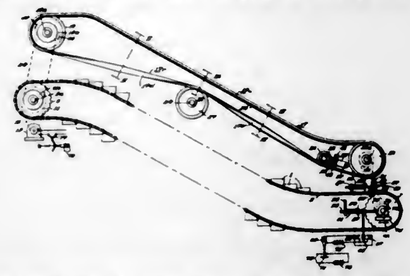
2,669,338
POWER OPERATED CONVEYER-TYPE LOADING MACHINE
Robert W. Kling, Chicago, Ill., assignor to Athey Products Corporation, Chicago, Ill., a corporation of Illinois
Application May 23, 1952, Serial No. 289,470
13 Claims. (Cl. 198—9)



1. A power operated conveyor-type loading machine comprising an elevating conveyor, a material gathering and guide plate extending laterally of the material receiving end of the elevating conveyor and having an opening in the mid-portion thereof aligned with and materially wider than the elevating conveyor for the passage of material to the elevating conveyor, a feeding conveyor extending through said opening in the plate from a position over the material receiving end of the elevating conveyor to a position ahead of the plate for moving material through the opening and onto the elevating conveyor, rotary pusher type conveyors on opposite sides of the forward end of the feeding conveyor for moving material along opposite ends of the plate toward the feeding conveyor, said elevating conveyor and the feeding conveyor being substantially narrower than said opening, said rotary pusher type conveyors being spaced from the opposite sides of the front end of the feeding conveyor and each having a length such that it moves material across the adjacent side of the opening, and opposed side walls adjoined to and extending rearwardly from the plate at opposite sides of the opening and converging toward the elevating conveyor at opposite sides of the feeding conveyor.

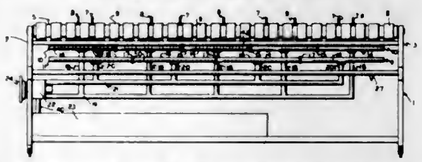
2,669,339
MOVING STAIRWAY
Hans E. Hansen, Staten Island, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 13, 1948, Serial No. 14,660
20 Claims. (Cl. 198—16)

1. In a moving stairway, a continuous flexible handrail member disposed for continuous movement through a predetermined path of travel, a pair of guide elements spaced along the path of travel for guiding the handrail member, the handrail member having a first continuous surface for reception of the hands of stairway passengers, and a second continuous surface for engaging the guide elements, said handrail member having a first section and a second section extending between and engaging the guide ele-



ments by paths along which each point on each section continuously advances during its transit from one of the guide elements to the other of the guide elements, said handrail member between the guide elements being angularly displaced about the path of travel of the handrail through an angle substantially larger than 180°, and a third guide element engaging the second surface intermediate the pair of guide elements.

2,669,340
MULTIPLE LANE AIR DOFFER
Robert L. Sjostrom, Lawrence, Mass.
Application September 6, 1951, Serial No. 245,397
13 Claims. (Cl. 198—21)

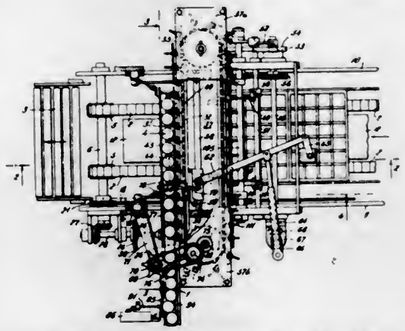


1. An automatic doffer for accommodating different multiple lane textile unit delivering devices, comprising a conveyor adapted to be positioned to receive textile units from the delivery devices, a plurality of air blast units positioned behind the textile units delivered from the conveyor and arranged across the doffer in groups corresponding respectively to the number of multiple lanes to be accommodated, a plurality of electrical switching means positioned at intervals across the conveyor corresponding one to each air blast unit and adapted to be operated by a textile unit for operating the air blast, the switching means and its corresponding air blast unit being aligned in the same direction as the motion of said conveyor.

2,669,341
BOTTLE ARRANGING MACHINE
Kaye B. Holstebroe, Gildersleeve, and Ludwig Wimmer, Middletown, Conn., assignors, by mesne assignments, to Emhart Manufacturing Company, a corporation of Delaware
Original application November 4, 1942, Serial No. 464,444, now Patent No. 2,452,376, dated October 26, 1948. Divided and this application January 21, 1948, Serial No. 3,604
4 Claims. (Cl. 198—34)

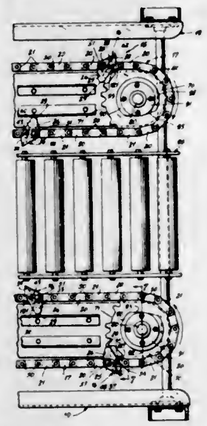
1. In apparatus of the class described, bottle row-forming mechanism comprising an endless

chain having flights thereon spaced apart by the diameter of the bottles, sprockets for supporting a portion of said chain in a straight line to form a row containing a predetermined number of bottles, a bottle feed line conveyor arranged to deliver bottles between the successive flights of said chain, a reciprocating carriage disposed adjacent a straight portion of said chain, means for reciprocating said carriage with a stroke whose length corresponds to the number of bottles in



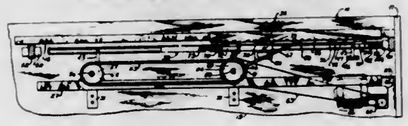
the row to be formed, a ratchet member pivoted on the carriage, driving lugs on said chain, said ratchet member being biased to engage one of said lugs as the carriage approaches the end of its back stroke to advance the chain on the next forward stroke of the carriage, and means for controlling the actuation of said chain by said carriage comprising mechanism for retracting said ratchet and holding it out of engagement with said lug during commencement of said forward stroke.

2,669,342
COLLAPSIBLE LUG CONTAINER FEED CONSTRUCTION
Morris P. Neal, Quincy, Ill., assignor to A-B-C Packaging Machine Corporation, Quincy, Ill., a corporation of Illinois
Application April 2, 1951, Serial No. 218,879
10 Claims. (Cl. 198—164)



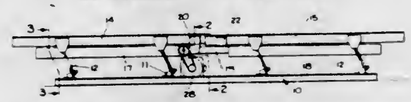
1. A collapsible lug container feed construction comprising, in combination, a pair of movable chains disposed in spaced relation and having adjacent runs in parallel, a plurality of lug members mounted on each chain so as to be oppositely paired with their respective counterparts on the other chain, said lug members being individually pivotable between a propelling position and a collapsed position, a face portion on each lug member, said face portions being in perpendicular extension from their respective chains when said lug members are in propelling position, individual yieldable means engaging each lug member respectively for biasing the same toward its propelling position, rotatable sprocket means for each chain, supporting means for the sprocket means, and means mounted on said supporting means for engagement with said lug members for moving the same relative to the chains against the action of said biasing means.

2,669,343
CONVEYER
Robert I. Berry, Chicago, Ill.
Application February 10, 1950, Serial No. 143,453
7 Claims. (Cl. 198—219)



1. A check-out station for stores or the like comprising an elongated counter having a plurality of parallel spaced stationary slats forming a goods-supporting top thereof, and a plurality of movable slats guided between said stationary slats for movement therealong and for vertical movement with respect thereto, means connecting said movable slats together, a track supporting said movable slats for movement along said stationary slats, a plurality of parallel links supporting said track, power means reciprocably moving said movable slats along said track, and engaging connections between opposite ends of said movable slats and opposite ends of said track at opposite ends of the strokes of said movable slats, moving said track longitudinally about the axes of pivotal movement of said parallel links and elevating said track in position to elevate the tops of said movable slats to a plane above the plane of said stationary slats at the ends of the return strokes thereof and moving said track longitudinally in an opposite direction about the axes of pivotal movement of said parallel links and lowering the tops of said slats to a plane beneath the plane of said stationary slats at the end of the forward strokes thereof.

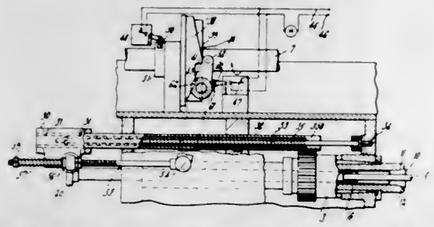
2,669,344
BALANCED SECTIONALIZED VIBRATORY CONVEYER
James A. Flint, Bexley, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application September 23, 1950, Serial No. 186,406
13 Claims. (Cl. 198—220)



1. A balanced vibratory conveyer including a main frame, a pair of separate decks mounted to feed one to the other, similar inclined cantilever spring means mounting each of said decks from the same main frame, a counterweight for each deck, means connecting a counterweight to each deck, inclined cantilever spring means mounting each counterweight from said main frame and positioning each counterweight below the par-

ticular deck other than the one to which it is connected, said counterweight spring means being substantially duplicates of said deck spring means, each counterweight having approximately the same weight as the deck to which it is connected, and power operated means for simultaneously reversely actuating said two separate decks and connected counterweights.

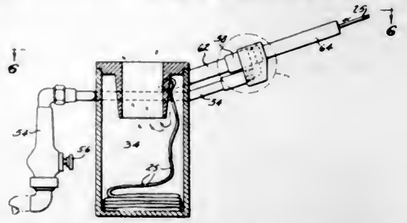
2,669,345
OUT-OF-STOCK RESPONSIVE MECHANISM
Roger W. Brown, Windsor, Vt., assignor to Cone Automatic Machine Company Inc., Windsor, Vt., a corporation of Vermont
Application September 10, 1949, Serial No. 115,069
2 Claims. (Cl. 203—12)



2. A mechanism of the class described, comprising a hollow rotary spindle through which stock may be fed, a stock clamp carried by said spindle, means for intermittently closing and opening said clamp, a rotary cam shaft, cams on said shaft for controlling operative functions of the machine including a cam for actuating said closing and opening means, a stock pusher mounted for reciprocation in said spindle and engageable with stock in said spindle, yielding means operatively connected to said pusher and tending to hold said pusher in stock-advanced position, said cams including a stock pusher cam, mechanism actuable by said stock pusher cam for retracting said pusher while said stock clamp is closed and for releasing said stock pusher to be moved by said yielding means to feed the stock while said clamp is open, said pusher-actuating cam having a second portion recessed to permit said yielding means to move said pusher in stock-advancing direction while said clamp is closed when this is not prevented by stock engaged thereby being held against feed by the closed clamp, means for rotating said cam shaft, a circuit, a pair of controlling switches arranged in parallel in said circuit, means actuable by said cam shaft only when said shaft is in angular position to present said pusher cam recessed portion in operative position to open one of said switches, and means actuated by advancing motion of said stock pusher for opening the other of said switches, whereby when said pusher advances while said clamp is closed both of said switches are opened to open said circuit.

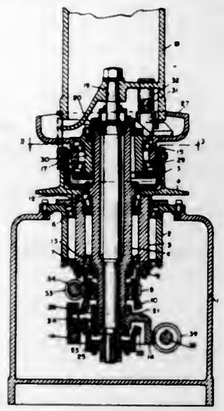
2,669,346
APPARATUS FOR THE MANUFACTURE OF SYNTHETIC THREAD
Harry A. Kuljian, Merion, Pa.
Application May 21, 1951, Serial No. 227,401
1 Claim. (Cl. 203—67)

For use with a thread manufacturing apparatus of the type which includes a thread storing and advancing reel adapted to receive a thread, a lacing device for facilitating the winding of the thread about said reel, said device including a conduit, a Venturi fitting connected at one end thereof to one end of said conduit, the one end of said conduit being open and adapted to receive the leading end of said thread and the other end of said conduit being open for discharging said thread, there being a plurality of elongated annularly disposed openings formed in the wall of said Venturi fitting and leading from a point



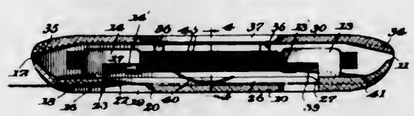
outside said Venturi fitting to said conduit, a casing enclosing at least a portion of said venturi and providing a distributing chamber surrounding the ends of said openings which lead from outside said Venturi fitting, and means for supplying air under pressure to said chamber.

2,669,347
CONTINUOUS TAKE-UP BLOCK
Edwin J. McIlvried, Granger Township, and Charles P. Gardner, Randolph, Ohio, assignors to The Vaughn Machinery Company, Cuyahoga Falls, Ohio, a corporation of Ohio
Application May 7, 1952, Serial No. 286,511
12 Claims. (Cl. 205—20)



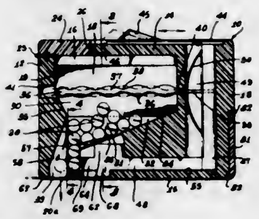
1. Continuous take-up mechanism for wire and the like comprising a supporting frame, a hollow drum journalled in said frame for rotation about a vertical axis, an inclined peripheral apron encircling the lower end of said drum, an annular member secured to said drum and extending axially downwardly therefrom, a worm gear secured to and coaxial with said member, an electric motor, a worm driven by said motor in engagement with said gear to drive said drum, a vertical tubular spindle journalled for rotation within said annular member and projecting upwardly through said drum and downwardly through said member, a worm gear secured to and coaxial with the lower end portion of said tubular spindle, a second less powerful reversible electric motor, a worm driven by said latter motor in engagement with said latter gear to drive said tubular spindle, normally operative brake means for said latter motor, control means operative to release said brake means and energize said latter motor for operation in a selected direction, a second vertical spindle journalled within said tubular spindle and projecting from the upper and lower ends of the latter, an upper drum mounted on the upper end of said second spindle for rotation therewith above said first drum and of the same diameter but substantially greater vertical extent than said first drum, a downwardly facing bevel gear fixed on the lower end of said annular member, a similar upwardly facing bevel gear on the lower end of said second spindle opposed thereto, a bevel gear carried by said tubular spindle and mounted for rotation about an axis normal to that of said spindles interposed between and engaging said opposed bevel gears to form a universal drive unit, a separate apron encircling the lower end of said upper drum and journalled on the upper end portion of said tubular spindle at a slight angle to the axis of said spindle and drum, means interengaging said upper drum and associated apron for rotation together, whereby a relative rocking action of said latter apron is afforded effective to push up wire wound on said upper drum, an arm mounted on said tubular spindle and projecting laterally between the upper end of said lower drum and said push-up apron, and a pulley carried by said arm for rotation about a horizontal axis, the periphery of said pulley being tangential to the work-engaging surfaces of said respective drums.

2,669,348
BLADE DISPENSING MAGAZINE WITH USED BLADE COMPARTMENT
Charles L. Metzler, Palisades Park, N. J., assignor to The Gillette Company, a corporation of Delaware
Application March 5, 1948, Serial No. 13,257
7 Claims. (Cl. 206—16)



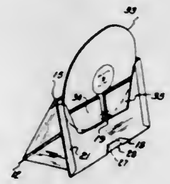
1. A blade magazine comprising a shell of rectangular outline having end exit slots and a bottom with elevated end areas and an intermediate well providing a used blade compartment with an inlet slot at one end of said well, and a bowed spring resting with its ends on said elevated areas, bridging the well and providing separate compartments within the shell for used and unused blades.

2,669,349
POCKET DISPENSER
Edward C. Silver, Los Angeles, Calif.
Application March 3, 1952, Serial No. 274,605
7 Claims. (Cl. 206—42)



1. A tablet dispenser comprising: a housing having an upper hopper with a sloping bottom wall defining with the opposite wall a constricted discharge throat communicating into a substantially vertical ejection chute formed by lower wall portions; an agitating rod mounted in said housing to extend transversely across said hopper throat parallel to said bottom wall and spaced therefrom to permit the entry of a single line of tablets into said chute, said rod having a generally sinusoidal shape and being movable for agitating said tablets and insuring the proper flow into said chute; ejection means mounted in said chute and movable in a reciprocating motion to eject one of said tablets from said housing upon each cycle of operation; and manual actuating means connected to said agitating means and said ejection means for effecting simultaneous operation thereof.

2,669,350
COMBINATION PACKAGING AND DISPLAY UNIT
Richard S. Railton, Berkeley, Calif.
Application February 9, 1953, Serial No. 335,677
1 Claim. (Cl. 206—45.21)



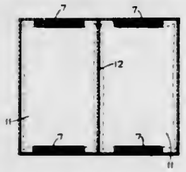
A combination package and display unit formed of foldable sheet material comprising: an integral, generally rectangular length of sheet material formed with first, second and third spaced parallel transverse fold lines defining said sheet into contiguous first, second, third, and fourth transversely delineated sections; the respective lengths of said second and third sections being substantially equal and the length of said fourth section being substantially less than the length of either said second or third sections; said first section folded along said first fold line into overlying position with respect to the obverse side of said second section; the marginal side edges of said first section secured to the obverse side edges of said second section; said first and second overlying sections defining a pocket opening; said length of sheet material foldable along said second and third fold lines into a relatively flat package unit with said third section flatly overlying the obverse side of said second section and with said fourth section extending around the terminal edge of said second section into flat overlying position against the reverse side of said second section; said length of sheet material also foldable along said second and third fold lines into a display stand generally triangular in end elevation, and with said third section folded back over toward the reverse side of said second section at an acute angle with respect thereto, whereby said second and third sections define supporting legs of the triangular stand, and with said fourth section folded toward the terminal edge of said second section defining a supporting base for said triangular stand; means for releasably locking said folded sheet material in its package form; and means for releasably locking said folded sheet material in its display stand form.

2,669,351

PACKAGE FOR LIQUIDS

Clarence M. Carson, Cuyahoga Falls, and James E. Snyder, Akron, Ohio, assignors, by mesne assignments, to The Goodyear Tire & Rubber Company, a corporation of Ohio

Application April 3, 1950, Serial No. 153,732
6 Claims. (Cl. 206—46)



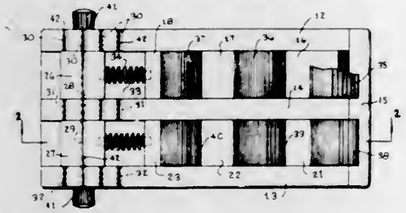
5. A package which includes a stiff container and in it a liquid-filled, pillow-shaped rectangular pouch of flexible material, the pouch being constructed with top and bottom walls united without any intervening wall, the pouch being sealed along one edge, a support projecting inwardly from the central portion of the side of the container adjacent said edge which support flattens said edge of the pouch, the corners of the pouch formed by the ends of said sealed edge projecting beyond opposite ends of the support and being unsupported.

2,669,352

ADJUSTABLE SALES TAX STAMP HOLDER

Elmer C. Fisher, Columbus, Ohio

Application June 27, 1950, Serial No. 170,575
1 Claim. (Cl. 206—74)



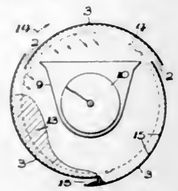
A device for holding stacks of stamps comprising, in combination, a body formed with an elongated main groove, first stationary abutment means secured to said body and extending transversely across one end portion of said main groove, a plurality of block members slidably positioned in said main groove, each block member being formed with longitudinal ribs on its opposite sides and the walls of the main groove being formed with longitudinal subsidiary grooves slidably receiving said ribs, a plurality of longitudinally spaced transverse holes extending through the opposite end portion of the main groove, a further block member located in said opposite end portion of said main groove, a removable transverse pin member extending through said body and through a selected hole in said further block member, and a pair of concentric coil springs positioned between said further block member and the adjacent one of said first-named block members, urging said adjacent one of the first-named block members toward the abutment means, whereby respective stacks of stamps of different denominations may be positioned between the adjacent respective block members and between the first stationary abutment means and the block member adjacent thereto, with the stamps extending a substantial distance upwardly beyond the block members and said abutment means, so that the upper portions of the stamps may be torn away while the lower portions of said stamps are held by the clamping force of the springs on the block members.

2,669,353

APPARATUS FOR THE SELECTION OF SEEDS OR SIMILAR MATERIAL

Josef Musil, Vienna, Austria, assignor to Maschinenfabrik Heid Aktiengesellschaft, Vienna, Austria, a joint-stock company

Application February 8, 1950, Serial No. 142,961
Claims priority, application Austria
February 11, 1949
11 Claims. (Cl. 209—95)



1. In an apparatus for the selection of seeds or similar materials the combination comprising frame means, a drum rotatably mounted in the frame means and receiving the material at one end and discharging a part of the material at the opposite end, the drum having on its interior surface material selecting cells and being constituted by peripheral arcuate wall means having at least a pair of circumferentially overlapping and radially spaced edges defining an aperture opening from the interior of the cylinder to the exterior thereof, whereby rotation of the drum in one or the selecting direction will cause the aperture to be filled with material without discharging same through the aperture to the exterior, a collecting trough having an open top and supported within the drum, and receiving material discharged from the cells, and means mounted within the trough and discharging material from the trough exteriorly of the drum.

2,669,354

PHOTOELECTRIC SORTER FOR DOCUMENTS SUCH AS CHECKS, ETC.

John Perrin, Croydon, England, assignor to Powers-Samas Accounting Machines Limited, London, England, a British company

Application May 9, 1951, Serial No. 225,309
Claims priority, application Great Britain
May 17, 1950
2 Claims. (Cl. 209—111)



1. In a sorting machine having feeding means to feed in succession to a sensing position documents having data recorded thereon by light reflecting sub-areas thereof for sensing by photoelectric cells adapted to control the operation of actuating means for timing devices co-operating with deflectors to guide documents into selected ones of a plurality of receiving compartments, apparatus for selectively operating said timing devices comprising in combination four photoelectric cells representative of numbers according to a predetermined code, a plurality of columns of transparent light guiding elements, each column consisting of four elements, one for each said cell, extending lengthwise between said cells and the document sensing position to guide light reflected from sub-areas of a document in sensing position to the cells, a slotted obturator supported for reciprocation between the cells and the ends of said elements adjacent thereto and in a direction transverse to the lengths of said elements, obturator actuating means operable in timed relation with said feeding means to permit the passage of light from said elements to said cells only when a document is in position for sensing, a manually operable shutter supported for sliding movement adjacent the ends of said elements remote from the cells and selectively operable to determine the column of elements by which light is to be guided to the cells, an amplifier to amplify electric impulses from said cells and to transmit amplified impulses, and a decoding device to receive amplified impulses from the amplifier and to decode them into single impulses for controlling the operation of said timing device actuating means.

2,669,355

FLOTATION METHOD AND REAGENT

Frederick R. Archibald, Duluth, Minn., assignor to United States Steel Corporation, a corporation of New Jersey

No Drawing. Application July 5, 1950,
Serial No. 172,197
7 Claims. (Cl. 209—166)

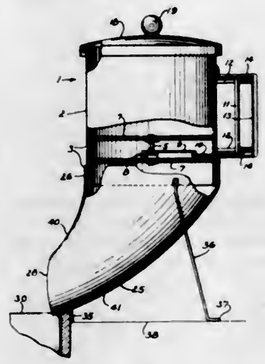
1. A method for floating iron oxide minerals from silicious minerals comprising adding to an ore pulp, which contains about 10 to 85% solids by weight, about 0.5 to 5.0 pounds of a collector of the fatty acid type per long ton of solids in the pulp and about 0.2 to 3.0 pounds of colloidal silica on an anhydrous basis per long ton of solids, the collector being of the group which consists of higher fatty acids, esters of the higher fatty acids, resin acids, naphthenic acids and mixtures of the foregoing, but being substantially free of alkali metal ions the colloidal silica having a mol ratio of silica to alkali metals of at least 25 to 1, and subjecting the pulp to a flotation treatment.

2,669,356

CHUTE FOR FLOUR SIFTERS

Anita Fishman, Chicago, Ill.

Application April 21, 1950, Serial No. 157,249
1 Claim. (Cl. 209—257)



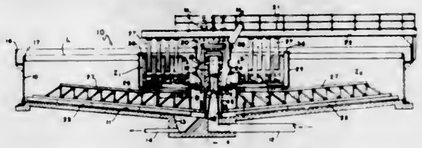
A chute for cylindrical flour sifters of the type having a circular discharge opening at the bottom thereof, said chute comprising an elbow-like funnel member having an upper circular rim adapted to be telescopically received on the lower end of the sifter with the rim completely encompassing the discharge opening and in register therewith, said chute being adapted to be frictionally supported by the sifter when the latter is manually held in an elevated position above the level of a supporting surface, said chute, when thus positioned on the sifter, extending generally downwardly and outwardly in one direction away from the vertical axis of the sifter and tapering inwardly to provide a discharge outlet of relatively small transverse area, a supporting frame in the form of a loop having upper ends secured to the opposite sides of the chute in the upper regions thereof and having its base projecting below the level of said discharge outlet, means providing a shoulder on said chute adjacent the bottom thereof in the vicinity of said discharge outlet for engaging the rim of a receptacle to locate the chute in discharge relationship with the extreme peripheral regions of the receptacle when the attached sifter is maintained in an elevated position with its axis extending vertically, said shoulder also constituting a supporting leg for the chute and extending downwardly below the discharge opening of the chute to the plane of the lowermost level of said supporting frame whereby said chute may be supported solely by said shoulder and supporting frame from a supporting surface with the attached sifter remaining in a vertical position.

2,669,357

CLARIFICATION TREATMENT OF SOLIDS CARRYING LIQUID AND APPARATUS THEREFOR

Wayne A. Kivell, Bronxville, N. Y., and Renville S. Rankin, Stamford, Conn., assignors to The Dorr Company, Stamford, Conn., a corporation of Delaware

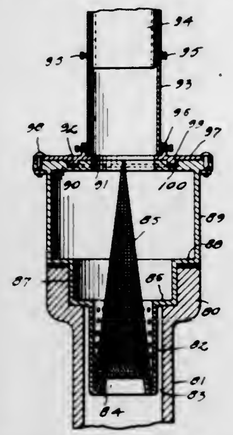
Application March 19, 1952, Serial No. 277,386
13 Claims. (Cl. 210—55)



1. A clarification tank having a hollow center pier structure rising from the bottom and having a bottom feed inlet leading into said hollow pier and also having discharge ports at the upper end, a feed conduit extending underneath the tank to pass feed liquid under hydrostatic operating head to said bottom inlet into and through said hollow pier for discharge through said discharge ports into the tank, a rotary sediment raking structure surrounding the pier and operatively supported by annular bearing means at the top end of the pier and rotatable for conveying sediment inwardly over the tank bottom to a zone of collection and discharge at said pier, a stationary structure at the top of the pier and deriving support therefrom, power drive means provided upon the stationary structure for rotating the raking structure, sediment outlet means for removing collected sediment as sludge from said collection zone, overflow discharge means for clarified liquid at the top of the tank, a cylindrical partitioning baffle wall surrounding the pier and defining an inner agitation zone directly surrounding the pier and an outer quiescent zone surrounding the partitioning wall, said par-

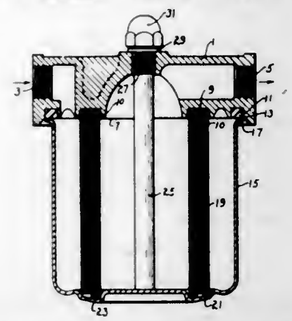
titioning wall extending from above the liquid level to a level spaced from the tank bottom sufficiently to allow for the passage of sludge to said sludge collection zone and of liquid to said overflow discharge means; characterized in that the pier is provided with sludge inlet ports and that the inner contour of the pier is rendered in the shape of an eductor providing a constriction intermediate the ends of the pier and connected with said inlet ports whereby said pier structure is rendered as a sludge transfer means with the upflow velocity of feed liquid under said hydrostatic pressure being effective to draw a desired volume from said sludge collecting zone through said inlet ports to mingle with the feed liquid for delivery through said discharge ports, said pier having an eductor-shaped hollow core and a jacket of concrete poured around and closing said hollow core so as to follow the contours therefor and constituting columnar support for said stationary structure, said hollow core comprising an intermediate eductor portion provided with eductor inlet openings having respective outwardly extending eductor inlet conduit portions to constitute said inlet ports extending outwardly through said concrete jacket, so that said intermediate eductor portion constitutes a mixing zone for said sludge and said feed liquid, said intermediate eductor portion being wider in the middle than at its upper and lower ends although wider at its upper end than at its lower end and gradually increasing in diameter from the upper and the lower ends towards each other, an upwardly gradually constricted influent eductor portion leading upwardly to the lower end of said intermediate portion, and an upwardly gradually widening effluent eductor portion leading upwardly from the upper end of said intermediate eductor portion.

2,669,358
STRAINER FOR DOWNSPOUT DRAINS
John C. Young, Pittsburgh, Pa.
Application January 5, 1950, Serial No. 136,945
2 Claims. (Cl. 210—88)



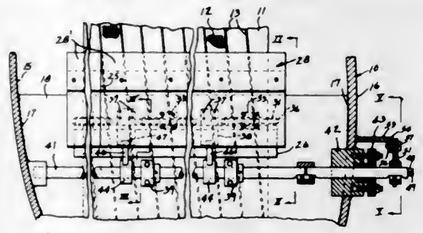
1. A strainer for downspouts and soil pipes comprising a cylindrical member adapted to engage in the upper end of a soil pipe, a plate integral with the upper end of said member having a central opening and an annular groove in the upper side thereof, a second plate overlying said first plate having a central opening and an annular rib on the lower side thereof engageable in said groove, means securing said plates together, a coupling sleeve fixed to said second plate and adapted to telescope over the downspout, a conical screen, and means supporting said screen from the lower end of said member.

2,669,359
LIQUID FILTER
Paul A. Mankin, Fort Wayne, Ind., assignor to Bowser, Inc., Fort Wayne, Ind., a corporation of Indiana
Application June 10, 1950, Serial No. 167,355
2 Claims. (Cl. 210—183)



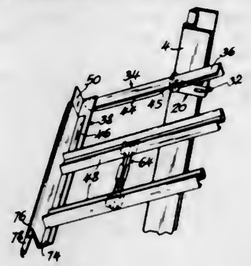
1. In a filter, the combination of a head, a pair of concentric grooves formed in the head, a relatively rigid filter element having one end mounted in one groove and a resilient gasket in the other, an open-ended bowl, means for drawing and holding the open end of the bowl in sealing relation with said gasket, an annular groove in the bottom of the bowl below the other end of said element wide enough to receive the end of the cartridge and deeper at one side than the other, and an annular, yieldable gasket of circular cross-section disposed in the latter groove at the deep side thereof, between the bowl and the filter element.

2,669,360
ADJUSTABLE FILTER SCRAPER BLADE
John W. Little, Birmingham, Ala., assignor to Goslin-Birmingham Manufacturing Company, Inc., a corporation of Alabama
Application November 29, 1951, Serial No. 258,836
5 Claims. (Cl. 210—201)



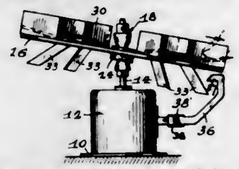
1. The combination with a rotary filter embodying a cylindrical filter drum and a closed casing therefor, together with a scraper blade pivotally mounted to bear against said drum, of an upwardly tapered plate mounted inwardly of said blade, a plurality of spaced apart leaf spring members each being secured at one end to the blade along the entire length thereof, the free ends of said spring members extending in a direction away from the scraping edge of said blade intermediate the blade and said plate, a movable member for each spring member in position to slidably engage between the free end of its associated spring member and said plate and urge the scraping edge of said blade toward said drum, a shaft extending through one end of said closed casing and operatively connected to each of said movable members for moving the same, and means outwardly of said casing for rotating said shaft.

2,669,361
DISPLAY AND DELIVERY STAND
George A. Just, Scarsdale, N. Y., assignor to The Grand Union Company, East Paterson, N. J., a corporation of Delaware
Application April 20, 1951, Serial No. 222,042
9 Claims. (Cl. 211—49)



2. In a display and delivery device a pair of tracks for receiving and supporting articles, said tracks each having inner and outer rails formed at their lower edges with flanges turned substantially at right angles to said rails and track holding members extending transversely of said tracks from one track to the other and each formed with opposite end portions slotted to receive said flanges and serving to hold said rails in predetermined spaced relation.

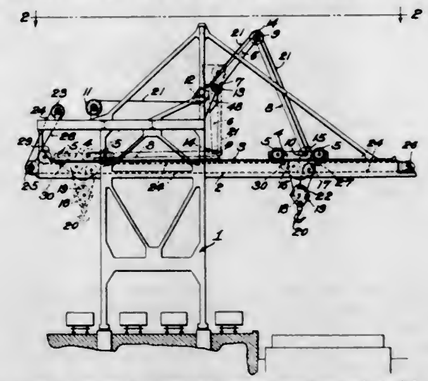
2,669,362
INDEXING TABLE
Richard J. Joy, Montebello, Quebec, Canada
Application October 20, 1951, Serial No. 252,315
8 Claims. (Cl. 211—58)



1. An indexing table comprising, a base, a shaft extending vertically from said base, a supporting top mounted on said shaft at substantially right angles to the axis of said shaft, means on said supporting top to retain thereon a plurality of article holding compartments in spaced apart relationship, flexible connecting means between said shaft and supporting top to allow for limited angular movement of said top relative to the axis of said shaft, an adjustable control means for stopping said top at predetermined points relative to said base upon angular movement of said top relative to the axis of said shaft.

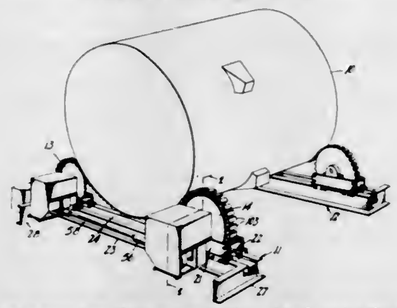
2,669,363
HOISTING APPARATUS
Charles W. Kahlerth, East Orange, N. J.
Application April 17, 1952, Serial No. 282,737
5 Claims. (Cl. 212—77)

1. A hoisting mechanism comprising a supporting structure, said structure having a runway supported thereon, a trolley on said runway, means for moving the trolley on the runway, a power driven hoisting drum mounted on said supporting structure, a hoisting rope wound on the drum, link means pivotally connected to each other, one end of one of said link means being hinged to said supporting structure and one end of the other of said link means being hinged to said trolley, load hoisting means suspended from said hoisting rope on said trolley, sheaves



mounted at the pivotal connection of said link means and on said trolley, said hoisting rope leading from said hoisting drum over said sheaves on the link means and trolley to said load hoisting means, whereby to permit the travel of the trolley within its working range with the link means moving in accordance with the movements of the trolley to maintain the length of hoisting rope constant between the drum and trolley during movement of the trolley.

2,669,364
ROTATABLE SUPPORT FOR CYLINDERS
Charles N. Aronson, Arcade, N. Y.
Application June 9, 1950, Serial No. 167,232
5 Claims. (Cl. 214—1)

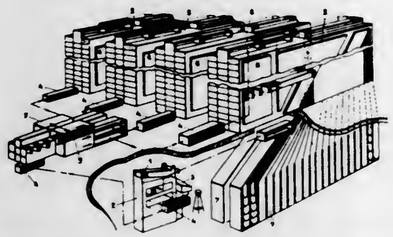


1. Apparatus for supporting and rotating cylindrical workpieces comprising a pair of aligned, horizontally spaced driving wheels, a belt-like element looped about the driving wheels with sufficient slack to provide an arcuate upper extent between the driving wheels, means for adjusting one of the driving wheels toward and away from the other whereby said upper extent of the belt-like element forms an arc conforming to the radius of the workpiece and substantially tangent to the driving wheels, and power means for selectively driving either of the driving wheels, said means including an electric motor and transmission means extending therefrom to both of said driving wheels, and a clutch in said transmission means for each of said driving wheels.

2,669,365
APPARATUS FOR SORTING ARTICLES SUCH AS MAIL

Robert Gourdon, Paris, France, assignor to Centre d'Etudes M. B. A. (Mecanique Balistique et Armement), Paris, France

Application August 4, 1947, Serial No. 765,946
Claims priority, application France August 3, 1946
9 Claims. (Cl. 214—11)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

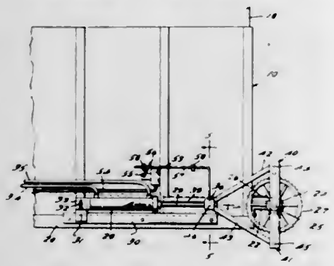


6. Apparatus for sorting articles, comprising receptacles for said articles, a block for carrying a plurality of receptacles including a box-like frame open at the sides for insertion and removal of receptacles therefrom, cooperating guiding surfaces on the frame and the receptacles for maintaining each receptacle inserted in the frame in a position fixed with respect to the frame, code index elements in those exterior walls of said receptacles which are accessible through said open side when the receptacles are inserted in said frame, said elements being settable to indicate the classifications of the articles contained in said receptacles, means for moving said block sequentially past a series of block unloading stations including means for stopping the block at each station, means at each unloading station operative while the block is stopped to remove those receptacles whose code index elements are set in predetermined code classifications, so that the block is empty when it leaves the last of the series of stations.

2,669,366
UNLOADING MECHANISM FOR MOTOR VEHICLES

Ernest John Sievers, Newell, Iowa

Application June 4, 1951, Serial No. 229,838
3 Claims. (Cl. 214—83.34)

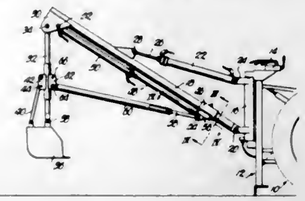


1. In a wheeled vehicle having sides, a floor and an end open for the discharge of material, a fabric floor covering, a roller supported across the said open end at floor level for rotation and having said covering attached thereto to be wound thereon, a sprocket wheel on one end of the roller, a fluid power cylinder supported at the side of the vehicle adjacent to said wheel, a piston rod projecting from said cylinder, a member pivoted to swing on the axis of the wheel, said member being of substantially U-form and straddling the wheel, a spring pressed pawl carried between the sides of said member and engaging the teeth of the wheel, a pitman pivotally connected at one end to the piston rod and at the other end to the U-member, a moving support connecting the said one end of the piston rod with the adjacent side of the vehicle for guiding the said end of the rod in a fixed path, and means for alternately delivering operating fluid to the ends of the cylinder.

2,669,367
DITCHER HAVING SLIDABLE BOOM SUPPORTED BUCKET CONTROL MEANS

Marion C. Wills and Wayne J. Wills, Topeka, and Evan E. Dorkins, Ottawa, Kans.; said Dorkins assignor to said Marion C. Wills and said Wayne J. Wills

Application April 14, 1952, Serial No. 282,233
3 Claims. (Cl. 214—138)

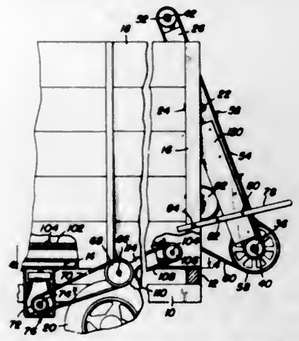


2. In a material handling machine, an elongated boom; an arm swingably secured to the boom; a dipper on the arm; a member mounted on the boom for reciprocation along the longitudinal axis thereof; means connecting the member and the arm for swinging the dipper as the member is reciprocated; and an extensible device interconnecting the member and the boom for reciprocating the member.

2,669,368
ENDGATE FOR VEHICLES

William O. Kammueller and Orrin A. Haeuser, Fountain City, Wis.

Application December 19, 1949, Serial No. 133,768
4 Claims. (Cl. 214—522)

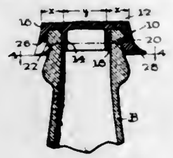


1. An end gate assembly for a self-unloading truck vehicle having a bed and an end gate supporting structure, comprising an end gate mounted on the gate supporting structure to pivot about a horizontal axis between the upper and lower ends of the gate, vertically spaced horizontal shafts rotatively mounted on said end gate on opposite sides of said pivotal gate mounting, driving and guiding members mounted on said shafts, an endless conveyor entrained over said driving and guiding means, driving means for said conveyor and resilient, adjustable slack take-up means connected to said driving means for maintaining a continuous driving connection to the endless conveyor as the end gate is swung about the pivot, to an open position, said slack take-up means elastically limiting the end gate opening in response to changes in weight pressing against the end gate.

2,669,369
BOTTLE CAP

Edward J. Towns, White Plains, N. Y., assignor of one-tenth to Bryant W. Griffin, Summit, N. J.

Application November 2, 1949, Serial No. 125,070
2 Claims. (Cl. 215—41)

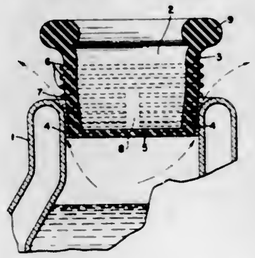


1. A closure of substantially stiff resilient polyethylene for application to bottles having a neck bead comprising a substantially flat top having a centrally positioned tapered tube depending therefrom for sealing engagement with the inner sides of a bottle mouth, and a flared skirt depending from said top and including a plurality of gripping fingers conforming with and engaging the lower portion of said bead, said fingers being formed by slitting said skirt vertically at spaced points about its circumference to points just below the maximum diameter of the bead whereby the unslit portion of said skirt engages the upper and maximum diameter portions of said bead, the spacing of said tube and skirt being less than the thickness of a bottle neck and bead whereby while positioned on a bottle, said tube and said skirt act thereagainst to increase their sealing and gripping actions respectively.

2,669,370
RUBBER STOPPER

Ivey G. Royall, Jr., St. Marys, Ohio, assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, a corporation of Ohio

Application July 28, 1950, Serial No. 176,380
1 Claim. (Cl. 215—47)

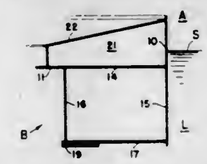


A stopper comprising an imperforate generally cup-shaped member of readily yieldable material having an outer wall of generally cylindrical shape closed at its inner end by a thin transverse readily flexible wall, a plurality of peripherally extending, axially spaced, integral flexible ribs on the outer surface of said first wall, said ribs having rounded outer peripheries, a plurality of said ribs near the inner closed end of the cup-shaped member being recessed to permit passage of fluid past same and others thereof near the open end of the cup-shaped member being continuous to prevent such passage, said continuous ribs being distributed over substantially the upper half of the first wall and said discontinuous ribs being disposed over substantially the lower half thereof, said transverse wall being relatively thin and thus readily flexible axially of the stopper to permit axially inward movement of the ribs lying in the plane of the wall whereby the ribs may conform to irregular contours in an opening in which the same may be inserted and thus prevent undue resistance to insertion of the stopper, a number of said discontinuous ribs being arranged on the outer side of said first wall in axially spaced relation to said transverse wall whereby upon insertion of said stopper in an opening the transverse wall will not offer resistance to the radially inward movement of said latter ribs, the upper edge of said first wall being enlarged radially to provide a reinforced peripheral lip to resist collapse of the open end of said stopper and to also provide a means by which the stopper may be readily grasped to remove it from an opening in which same may be inserted.

2,669,371
FLOATING ROOF

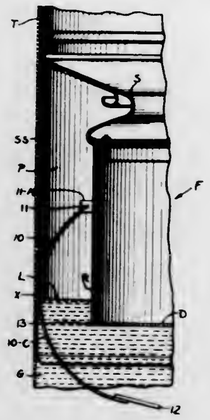
Reign C. Ulm, East Chicago, Ind., assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind., a corporation of Delaware

Application June 23, 1950, Serial No. 169,871
5 Claims. (Cl. 220—26)



1. A floating roof for a liquid storage tank, comprising a single deck; a rim surrounding an annular, peripheral part of the deck and extending above and below the same; drain means connecting central parts of the space above the deck with a lower space outside the tank; vent means connecting outer parts of the space below the deck with a space unconfined by the deck; ballast weight means secured to and supported by a central part of the deck and heavy enough to maintain a contour curve, in any vertical cross-section of the deck, upon immersion of the deck in the stored liquid, which curve rises relatively steeply from the central part of the deck connected to the ballast weight while being relatively flat in outer parts of the deck; and a pontoon ring formed in part by a lower portion of the rim, said pontoon ring being located at least in part below the peripheral part of the deck, being secured to said peripheral part, and displacing, when immersed slightly beyond the elevation of said peripheral part, an amount of stored liquid which substantially balances the weight of the rim and pontoon ring plus that of any equipment secured to the rim and pontoon ring; whereby upon immersion of the floating roof in the stored liquid no outward-downward slope is formed even in the outer and peripheral parts of the deck, while the ballast weight means and the entire floating roof can be relatively light.

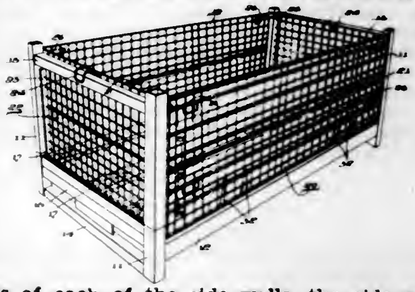
2,669,372
FLOATING ROOF
Marvin K. Allen, Houston, Tex., and Reign C. Ulm, Schererville, Ind., assignors to Graver Tank & Mfg. Co., Inc. East Chicago, Ind., a corporation of Delaware
Application January 21, 1953, Serial No. 332,477
4 Claims. (Cl. 220—26)



1. A floating roof comprising in combination with a peripheral rim and a seal ring supported therefrom, a series of rigid pushers distributed around the rim, each pusher having an upper end portion forming a pivot and connected with the rim for swinging motion in a substantially vertical plane substantially radial of the floating roof, a weighted lower end below the floating roof, inwardly of the pivot, and an intermediate cam and rocker portion extending from adjacent the pivot at least over a major portion of the pusher toward the weighted end, with pronounced, arcuate, outward, substantially uniform curvature in the outer surface of the entire cam and rocker portion, with steep downward and outward extension in the cam and rocker portion adjacent the pivot and with progressively steep downward and outward extension to a point of tangential contact between the cam and rocker portion and the seal ring, so that the location of the said point of contact is vertically variable to a substantial extent as compared with the displacement of the weighted end of the pusher, in response to horizontal movements of the floating roof relative to the seal ring.

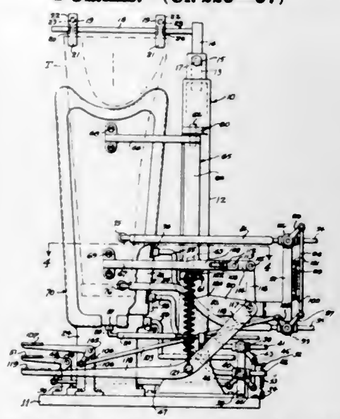
2,669,373
CONTAINER
Burton C. Coit, Jr., Washington, Pa., assignor to Tri-State Engineering Company, Washington, Pa., a corporation of Maryland
Application January 4, 1952, Serial No. 264,933
2 Claims. (Cl. 220—84)

2. The combination with a crib having a base frame of side and end bars and corner posts secured thereto and extending upwardly therefrom, together with a top rail connecting the posts at each end of the base, of a container comprising end walls disposed between the adjacent posts and having hooked engagement with the top rails, vertical angles welded to the outer faces of the end walls, adjacent to the vertical ends of the walls, each in position to fit against the sides of the innermost angle of the adjacent post, and side walls each detachably connected to the vertical edges of the end walls at points between the end posts that are adjacent to the



ends of each of the side walls, the side walls being movable outwardly relative to the posts.

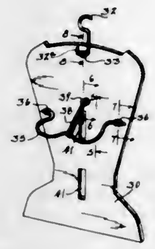
2,669,374
TROUSERS PRESSING MACHINE
Arthur B. Jones, Detroit, Mich.
Application August 31, 1949, Serial No. 113,293
3 Claims. (Cl. 223—57)



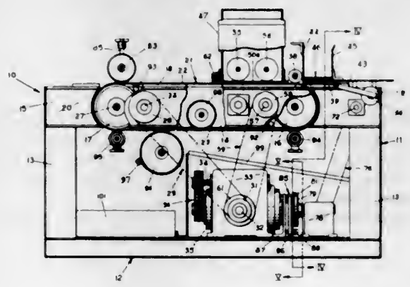
1. A trousers pressing machine for simultaneously pressing both legs of a pair of trousers in their right-side-up position, said machine comprising a supporting structure, a vertically-elongated hollow inner pressing member mounted vertically on said structure, a pair of vertically-elongated hollow outer pressing members movably vertically on said structure on opposite sides of said inner pressing member, means connected to said outer pressing members for moving said outer pressing members into and out of close proximity to said inner pressing member, means for supplying heat to said pressing members, and a trousers support connected to said supporting structure and overhanging said inner pressing member, said trousers support having thereon trousers waistband grippers releasably engageable with the waistband portions of the vertically-folded and vertically-hanging trousers near the forward and rearward edges of the trousers on opposite sides thereof whereby to press the legs of said trousers in the right-side-up position of said trousers.

2,669,375
DRESS DISPLAY FORM
Nathan F. Schilling, Brooklyn, N. Y.
Application February 14, 1951, Serial No. 210,970
14 Claims. (Cl. 223—68)

1. A dress display form comprising a flat solid body shaped to conform to the outline of the shoulder, chest and waist areas of the female body, means for supporting said flat body in a vertical position to have a dress draped therefrom, a preformed bust wire pivotally mounted at its ends on said body, and means for supporting said bust wire in a position extended horizontally from said body to shape the bust area of the dress mounted on said flat body, said flat body having at least one elongate slot adjacent said bust wire for retaining excess portions of a dress draped thereon.

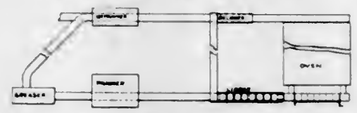


2,669,376
GRID PASTING MACHINE
Herbert C. Winkel, Watervliet, Mich.
Application July 8, 1949, Serial No. 103,634
12 Claims. (Cl. 226—39.6)



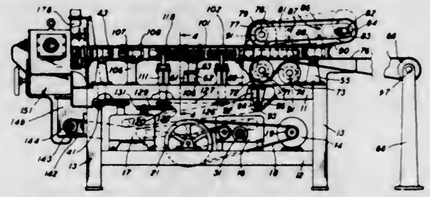
1. In a self-cleansing machine for automatically applying paste to a plurality of battery grids, the combination comprising: a flexible conveyor; a platform adjacent to one end of said conveyor; a reciprocable feed bar for advancing said grids, one at a time, from said platform onto said conveyor and power driven means effecting reciprocation of said bar; means effecting unidirectional movement of said conveyor; adjustable driving means including a variable pitch pulley, a fixed pitch pulley, a belt encircling said pulleys and manually controllable means for displacing a reach of said belt, associated with said driven means and controlling the speed of said reciprocation independently of the movement of said conveyor; a hopper and means supporting same above said conveyor; means resiliently resisting upward flexion of said conveyor, means positively resisting downward flexion of said conveyor along a line perpendicular thereto and beneath said hopper; means within said hopper for forcing paste into said grids; and means secured to the bottom of said hopper for controlling the application of paste to said grids.

2,669,377
MACHINE FOR PUTTING LIDS ON PULLMAN BREAD PANS
Edward Van Poolen, Cicero, and Leo G. Vogel, Evanston, Ill., assignors to The W. E. Long Company, a corporation of Illinois
Application September 29, 1951, Serial No. 248,938
10 Claims. (Cl. 226—88.1)



1. In a machine for putting lids on Pullman bread pans, a substantially horizontal conveyor for moving bread pans charged with dough in longitudinally spaced relationship toward an oven, a lid conveyor directed down at an acute angle to the pan conveyor, and a lever pivoted below the lower end portion of the lid conveyor having a rear arm normally engaging a lid to hold it on the lid conveyor and a front arm engageable by a pan to swing the lever and release the lid to move down the lid conveyor, meet said pan and be positioned thereon.

2,669,378
MACHINE FOR PACKING A PREDETERMINED WEIGHT OF BULK PRODUCT
Eben H. Carruthers, Warrenton, Oreg.
Application October 13, 1949, Serial No. 121,172
34 Claims. (Cl. 226—97)

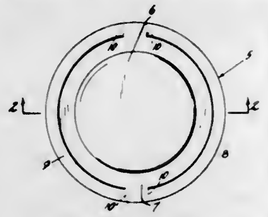


34. A machine for packing a substantially constant weight of material into each of successive containers presented in a filling position comprising, in combination, means for forming the material into an elongated structure of a predetermined desired shape, means for moving the structure toward the container filling position while it is being formed, a pair of cut-off devices located adjacent the container filling position, and means for moving the cut-off devices relative to each other in a direction substantially normal to the direction in which the structure is fed to sever a section of the structure, said means being independent of said structure moving means but being operated in synchronism therewith.

2,669,379
PLATE PROVIDED WITH DEPENDING GRIPPING MEANS
Douglas J. Olson, Minneapolis, Minn.
Application August 3, 1950, Serial No. 177,417
2 Claims. (Cl. 229—1.5)

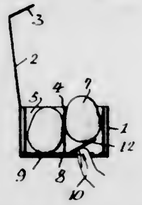
2. A stabilized eating plate structure comprising a substantially conventional, disposable, paper-like plate including a central imperforate dished plate bottom and a raised annular rim surrounding said bottom, said raised annular rim having a plurality of slits therein terminating in imperforate portions diametrically opposed to each other, said rim having a pair of crease lines therein aligned with each other and at each side of said imperforate portions and extending out-

wardly to the peripheral edge of said rim providing a pair of hinges so that the plate can be selectively utilized with the rim in its normal relationship with the plate bottom and also bent downwardly about the hinges into depending re-



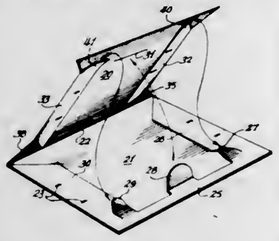
lation to said central imperforate plate bottom to a position substantially perpendicularly related to the plate bottom, thereby providing a gripping element adapted to be gripped between the knees of the user while the plate bottom is supported on the user's knees.

2,669,380
EGG CARTON
Joseph Auguste Raymond Grenier, Montreal, Quebec, Canada
Application June 23, 1952, Serial No. 295,065
2 Claims. (Cl. 229—7)



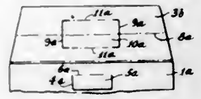
1. In an egg carton having a bottom and partitions therein forming egg compartments, said bottom having a finger aperture at each compartment, a liner laid on said bottom beneath said partitions, and flaps cut out of said liner at the respective apertures, said flaps being of larger area than the respective apertures, and of somewhat smaller area than the bottoms of the respective compartments.

2,669,381
RECEPTACLE FOR FILING PAPERS
John Podgursky, Brooklyn, N. Y.
Application July 26, 1949, Serial No. 106,777
3 Claims. (Cl. 229—77)



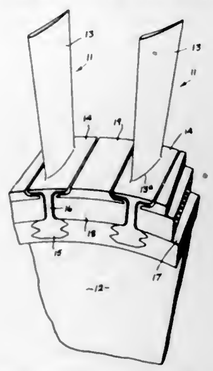
1. An article of the class described consisting of a four sided blank having centerfold connected flat parts of substantially corresponding size and shape that fold together with a common straight closed end and three straight normally open ends, a fold line on one of said parts perpendicular to the closed common end of the article and break lines connecting the ends of the fold line and one of the edges of the part, said fold and break lines providing a flap in one of the marginal areas of said part, and a tab situated on a juxtaposed marginal area of the other of said parts overlying the inturned flap in the first part to interlock the parts at one of the normally open ends of the article adjacent the common closed end.

2,669,382
PAPER BAG HAVING FLAP WITH REINFORCED LOCKING TONGUE AND TICKET RETAINER
George W. Poppe, Brooklyn, N. Y., assignor to Equitable Paper Bag Co. Inc., Long Island City, N. Y., a corporation of New York
Application April 29, 1952, Serial No. 284,965
6 Claims. (Cl. 229—84)



1. A bag having opposed walls defining a mouth and a flap extending from one of the walls and foldable down over the other wall to close the mouth, the bag walls having an opening and the flap having a transverse fold line on which the flap folds double on itself and the flap being long enough to overlap the opening when the flap is thus doubled, the flap being severed along lines defining a foldable tongue at the flap fold line and located to pass through the wall opening when the tongue is folded.

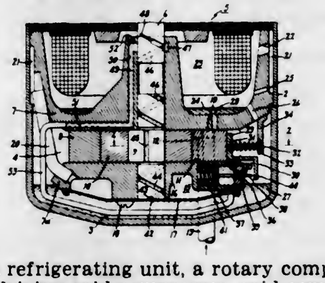
2,669,383
ROTOR BLADE
Joseph Thompson Purvis, North York Township, York County, Ontario, and Lloyd Calvin Secord, Toronto, Ontario, Canada, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation
Application February 6, 1951, Serial No. 209,597
4 Claims. (Cl. 230—134)



4. The combination with a rotor of a plurality of blades each having an integral structure comprising an element of aerofoil section, a root fillet at the inner end of the element and located at the periphery of the rotor, a resiliently deflectable web extending inwardly from the root fillet, and a root rigidly fixed in the rotor inwardly of the web, the aerofoil element being disposed with its longitudinal axis inclined in the plane of

rotation of the rotor at a predetermined dihedral angle to the radius of the rotor at the root fillet, each of the webs being of regular obtuse section to reduce critical concentration of stress, the aerofoil elements being subject in operation to fluid and centrifugal loads causing deflection of the webs, the relationship between the length and thickness of each of the webs being such as to distribute the load uniformly throughout the length of the web and substantially eliminate stress concentration at the root fillet, such deflection of the webs producing a change in the angle of inclination of the longitudinal axes of the aerofoil elements and thereby producing a change in the magnitude of the bending moments produced by the centrifugal loads on the aerofoil elements such as to ensure that at extreme conditions of air and centrifugal loading predetermined maximum bending moments in the blades will not be exceeded.

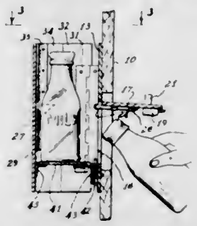
2,669,384
UNLOADER
Raymond L. Dills, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application March 4, 1952, Serial No. 274,813
5 Claims. (Cl. 230—138)



1. In a refrigerating unit, a rotary compressor, a motor driving said compressor, said compressor including an annulus having a radial slot, a rotor operating eccentrically in said annulus, a blade slidably positioned in said radial slot, a first spring biasing said blade for following said rotor thereby to divide said compressor into high and low pressure sides, an arm formed integrally with said blade, a cylinder, a piston for operating in said cylinder, a plunger connected to said piston for engaging said arm, a second spring stronger than said first spring biasing said piston for causing said plunger to engage said arm and lift said blade from said rotor thereby to equalize pressure between said high and low pressure sides of said compressor for unloading said compressor, oil pumping means operated by said motor and effecting oil pressures proportionate to the torque developed by said motor, and means conducting oil from said oil pumping means to said cylinder between said piston and said arm, said second spring being overcome and said plunger being restrained from lifting said blade from said rotor by the pressure of oil on said piston when said motor is developing maximum torque thereby to permit loading of said compressor.

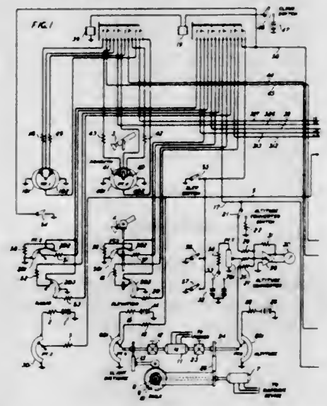
2,669,385
FOOD DELIVERY BOX
Michael Curcio, Whitestone, N. Y.
Application June 12, 1952, Serial No. 293,155
2 Claims. (Cl. 232—42)

1. A delivery box comprising a front plate having an opening therein, a back plate, horizontally foldable side plate means disposed at the opposite sides of the front and back plates to connect the same together, to permit the expansion and collapse of the box, a bottom piece and means for hingedly connecting the bottom piece to the front plate to permit the same to be swung from a down position upwardly across the opening of the front plate and a box door hingedly connected to the front plate and adapted to close the opening thereof, a latch projection



on the door, catch means on the front plate operable by the bottom piece as it is moved down to position the catch means to retain the latch of the door when the bottom piece is in the down position and the door is closed and when the bottom piece is swung up against the front plate to withdraw the catch from the latch so that the door is made free for insertion of articles into the box through the front opening.

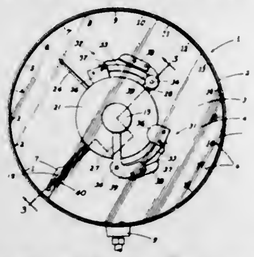
2,669,386
GUN DATA COMPUTER HAVING SPOT CORRECTION MEANS
William H. Boghosian, Summit, Henry G. Och, Short Hills, and Bruce T. Weber, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 26, 1946, Serial No. 679,351
4 Claims. (Cl. 235—61.5)



1. In a computer, a source of voltage, first means connected to said source and controlled by observations of a moving object to fractionate the voltage from said source to produce a first voltage proportional to the slant distance from the point of observation to said object, a first amplifier having an input circuit connected to said first means and an output circuit, a second amplifier having an input circuit connected to the output circuit of said first amplifier and an output circuit, second means connected to the input circuit of said first amplifier and connectable at will to the output circuit of said first or second amplifier and adjustable to supply to the input circuit of said first amplifier a second

voltage proportional to said first voltage, third means connected to the output of said second amplifier and controlled by observations of the elevation of said object with respect to said point to fractionate the output voltage of said second amplifier to produce a third voltage proportional to the horizontal range from said point to the projection of said object, fourth means connected to said third means and controlled by observations of the azimuth of said object from said point with respect to arbitrary axes to fractionate the voltage from said third means to produce fourth and fifth voltages proportional to the horizontal rectangular coordinates of said object from said point, a third amplifier having an input circuit connected to said fourth means to amplify said fourth voltage and an output circuit, a fourth amplifier having an input circuit connected to said fourth means to amplify said fifth voltage and an output circuit, computing means connected to said source and controlled by said observations to supply to the input circuits of said third and fourth amplifiers, voltages respectively proportional to predicted changes in said coordinates, a motor, potentiometer means having windings connected to the output circuits of said third and fourh amplifiers and four brushes controlled by said motor, a fifth amplifier having an input circuit connected to two of said brushes and to said computing means to produce a voltage proportional to the predicted horizontal range of said object and an output circuit, a sixth amplifier having an input circuit connected to the output circuit of said fifth amplifier and an output circuit connected to said computing means, a seventh amplifier having an input circuit connected to the other two of said brushes and to said computing means and an output circuit connected to said motor to cause said motor to rotate to the predicted azimuth of said object, fifth means connected to the input circuit of said seventh amplifier and the output circuits of said fifth and sixth amplifiers and adjustable to supply to the input circuit of said seventh amplifier a voltage proportional to a small change in said azimuth, first plotting means connected to said fourth means and controlled by said fourth and fifth voltages to plot the present position of said object and second plotting means connected to the output circuits of said third and fourth amplifiers to plot the predicted position of said object.

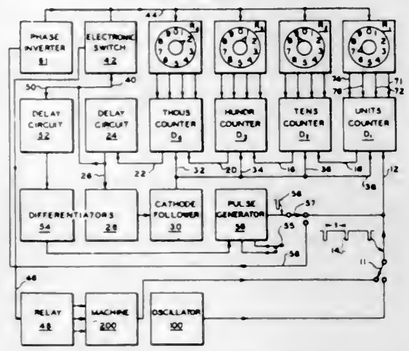
2,669,387
LOAD INDICATING ACCUMULATOR FOR GAUGES
Nathaniel F. Hawthorne, Alameda, Calif.
Application December 13, 1952, Serial No. 325,863
4 Claims. (Cl. 235—83)



3. An indicating accumulator comprising, in combination with a calibrated dial and a mounting face spaced in front of the dial and arranged to allow visual inspection of the dial from in front of the accumulator, a short tubular neck extending through the face axially of the dial, an enlarged hub on the inner end of the neck abutting the inside of the face, a nut threaded on the neck abutting the outside of the face, a spindle extending in turnable relation through the neck, an enlarged hub on the inner end of the spindle in spaced relation to said first named hub, a ratchet disc unit turnable about the spindle between such hubs, a pair of rotary pointers disposed between the face and dial to read on the latter, one pointer extending in fixed relation radially from the hub on the spindle, the other pointer extending in fixed relation radially from the disc unit, the latter including separate circumferential rows of ratchet teeth, a pawl connected between said one pointer and one row of said ratchet teeth arranged to cause corresponding rotation of the unit upon advance of said one pointer from the zero position on the dial, another pawl connected between the hub on the neck and said other row of ratchet teeth arranged to prevent rotation of said unit and in the direction of return of said one pointer to said zero position and a knob on the spindle exteriorly of the face

---

2,669,388
PREDETERMINED COUNTER SYSTEM
Benjamin Fox, New York, N. Y.
Application June 5, 1948, Serial No. 31,231
9 Claims. (Cl. 235—92)
(Granted under Title 35, U. S. Code (1952), sec. 266)

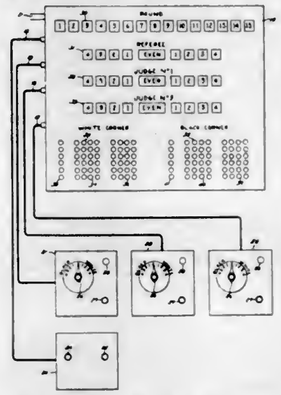


1. A self-cycling, electric predetermined counter having N stable states successively induced by successive variations of potential applied to the input circuit thereof, a presetting register for said counter having N selectable counter presetting positions for selectively presetting the counter to any one of its stable states in response to a pulse applied thereto, said positions being calibrated in terms of the $(N-1)$ complement of the count preset thereby, means responsive to said predetermined counter reaching a predetermined counting state to provide a pair of time-spaced pulses, means for impressing one of said pair of pulses upon said input circuit, and a circuit including said register and responsive to the other of said pair of pulses to preset into said counter a count equal to the $(N-1)$ complement of the number set up on said registers.

2,669,389
BOXING SCOREBOARD
Michael J. Mesi and Raymond G. Davis, Portland, Oreg.
Application March 13, 1951, Serial No. 215,316
7 Claims. (Cl. 235—92)

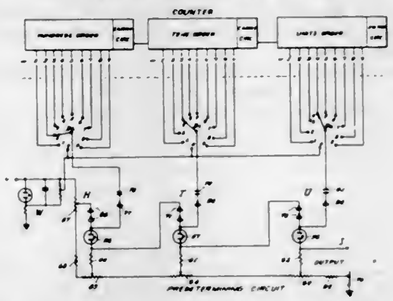
1. Scoring apparatus for a boxing match and the like having a plurality of judging officials

comprising an individual scoring device for each judging official, selector means in each of said scoring devices having a plurality of positions in a first range to award different numbers of points to one contestant and a plurality of positions in a second range to award different numbers of points to the other contestant, a score board, an individual number display section on said score board for each judging official, each of said individual display sections having one portion to indicate the number of points awarded to one



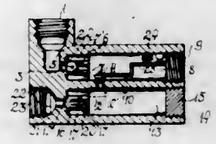
contestant in one round of the match and another portion to indicate the number of points awarded to the other contestant in one round of the match, a number display section on said score board to indicate the total number of points awarded to each contestant in all the completed rounds, and means for adding the numbers indicated in the corresponding portions of said judging officials' display sections after each round to numbers in the respective display sections for the two contestants.

2,669,390
ELECTRONIC SIGNAL RESPONSIVE CIRCUIT HAVING PRESETTABLE COUNT MEANS
John C. Manley, Barrington, R. I., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass., a corporation of the United States
Application December 22, 1950, Serial No. 202,336
15 Claims. (Cl. 235—132)



1. A circuit network controllable by a plurality of signal sources for producing signals in various possible sequences, comprising a voltage supply, a succession of gaseous discharge tubes, separate signal input circuits for so respectively connecting the signal sources and the tubes, each said source to a different tube, as to be capable of non-simultaneously transmitting signals from the sources to the related tubes, biasing connections between the voltage supply and the tubes for initially biasing only the first tube to fire upon application thereto of a signal by its input circuit the remaining tubes being unaffected by signals on their input circuits, means serially connecting the anode-cathode circuits of the tubes including an output connection from each preceding tube to the next tube effective upon firing of the preceding tube to condition the next tube to fire upon application of a signal thereto by its input circuit, whereby the tubes are conditioned in predetermined sequence and fire in said sequence in response to signals produced in a corresponding sequence on their respective input circuits by said signal sources.

2,669,391
MIXING VALVE FOR WATER CLOSET TANKS
John J. Kelsch, Winnipeg, Manitoba, Canada
Application July 12, 1950, Serial No. 173,397
1 Claim. (Cl. 236—12)

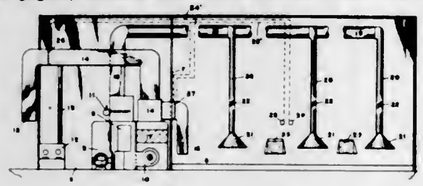


A mixing valve for water closet tanks and the like comprising in combination a casing, two parallel bores in said casing, a cold water supply inlet in said casing, a warm water supply inlet also within said casing, and a water outlet in said casing communicable with an associated water closet tank, one of said bores communicating between said cold water inlet and said water outlet, a communicating passage between said warm water inlet and said water outlet including the other of said bores and a port forming a junction between the bores at a point remote from said water outlet, a ball check valve in each of said bores situated between the junction thereof and each of said water inlets, an expansion chamber associated with each of said check valves, said expansion chambers including a plurality of concentrically disposed counterborings, portions of the walls of said counterborings coinciding with the wall of said bore thus providing a series of axial breaches, said counterborings and said boring having a quatrefoil, cross-sectional configuration, and thermostatic means to control the ingress of warm water, said thermostatic means including a thermostatic element situated within said casing adjacent said water outlet and remote from the junction of said bores, a cantilever actuated by said element, a valve seating upon one end of said cantilever adapted to control the influx of warm water to said one bore.

2,669,392
POULTRY HOUSE HEATING SYSTEM
Orville H. Schwanger, Elizabethtown, and Robert M. Schwanger, New Cumberland, Pa., assignors to Romair, Incorporated, Lancaster, Pa.
Application April 6, 1950, Serial No. 154,372
1 Claim. (Cl. 237—48)

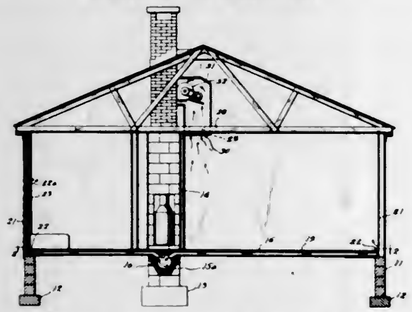
A heating system for poultry houses, comprising a hot air furnace, a blower for said furnace, means for continuously conducting air from said blower to a multiplicity of pipes arranged in a row and perpendicular to the floor of said poultry house, said pipes being suspended and having no

connection with the floor, means for raising or lowering the discharge opening of said pipes relative to the floor to provide a strata of warm air between the floor and the outlets of said pipes, formed by the continual inflow of warm air from the pipes, means for introducing fresh air into



the system, means for controlling the recirculation of air within the poultry house, and automatic pressure operated means located substantially level with the lowermost position of the pipe outlets for venting the air inside the poultry house to the outside.

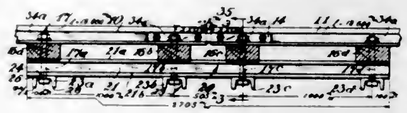
2,669,393
HEATING SYSTEM
Paul E. Schleicher, Gary, Ind., assignor of one-half to Saul Cohen, Gary, Ind.
Application February 23, 1950, Serial No. 145,614
8 Claims. (Cl. 237—69)



3. A heating system for a bungalow type of building having a plurality of rooms and a floor comprising a relatively thick cast structure, said heating system comprising means for heating air, a relatively large horizontal trunk for conveying heated air extending from said means generally longitudinally of one dimension of said building, a plurality of conduits having a cross-sectional area not substantially greater than that of a circular conduit of about three inches in diameter, said conduits in general being substantially normal to said trunk and spaced apart a distance to substantially heat said cast floor throughout its area to a temperature not substantially exceeding the mean temperature of said rooms, continuous substantially horizontal outlets along the outer walls of said rooms extending substantially the full length of said walls, said outlets receiving air from said conduits and discharging it into said room, and means for forcing air from said heating means through said conduits to said rooms.

2,669,394
DEVICE FOR REMOVING SHOCKS OF RAILROAD RAILS
Oskar Poebing, Munich, Germany
Application September 19, 1949, Serial No. 116,489
1 Claim. (Cl. 238—169)

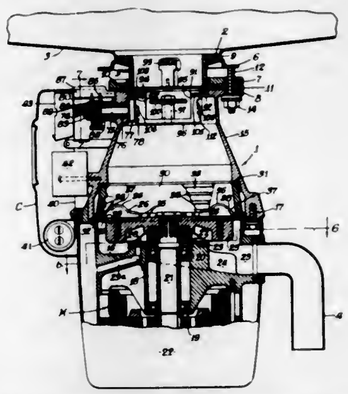
In means for preventing rail shocks of wheels of railroads in which the rails have butt ends forming an expansion space between said ends, said rails having laterally outwardly extending base flanges, the combination of a plurality of ties arranged transversely to said rails, one of said ties being spaced on either side of said expansion space, and near the same and at least one of the other ties being spaced from the first named ties a greater distance than the space between said first mentioned ties adjacent said expansion space, the rails at the expansion space being unsupported by ties, the upper surfaces of all of said ties contacting with the lower surfaces of said rails, a straight rigid connector formed of a pair of rigid channel bars extending in both directions from said expansion space to the extent of at least two adjacent ties at each side of said expansion space, the upper surface of said connector contacting with the lower surfaces of said ties, said connector being parallel with said rails, crossplates transverse of said con-



nector having their upper surfaces contacting with the lower surfaces of said connector, and pairs of laterally spaced bolts, each pair connected at their lower ends with said crossplates and extending through the ties with their upper ends each connected with one of the base flanges of said rail, said rail ends, said connector and ties therebetween together with said crossplates and said bolts as described forming a rigid unitary structure with the ends of said rails forming said expansion space for freedom of vertical movement in respect to each other when the wheel load on one rail end presses down said rail end, and simultaneously presses down one end of said connector, the other end of said connector pulls down the other rail end to the level of the pre-loaded rail end, and to align the rail ends for the wheel as it rolls over the said expansion space from the pre-loaded rail end on to the other rail end, reducing rail shocks to said wheel at said expansion space.

2,669,395
KITCHEN WASTE DISPOSAL APPARATUS WITH REVERSING MEANS
Thomas H. Swisher, Elmhurst, Ill., assignor to General Electric Company, a corporation of New York
Application May 31, 1951, Serial No. 229,215
9 Claims. (Cl. 241—63)

1. Waste disposal apparatus including a comminution chamber having an inlet for securement about the drainage opening of a sink or the like and an outlet for evacuation of waste, comminution means within said chamber, a reversible motor for driving said comminution means in one or the other direction, a power circuit for said motor, a reversing switch in said circuit, said switch having an actuator disposed within said chamber and movable from a normal open-circuit position to either of two closed-circuit positions providing forward and reverse motor rotation respectively, an inlet fitting for insertion into the inlet of said chamber, means for manually displacing said fitting within said inlet, and a plurality of means on said fitting and selectively individually engageable with said switch actuator upon movement of said fitting in a single predetermined direction to operate said switch actuator means to establish a motor circuit for forward or reverse direction according to which of said inlet fitting means is brought into engagement with said switch actuator.

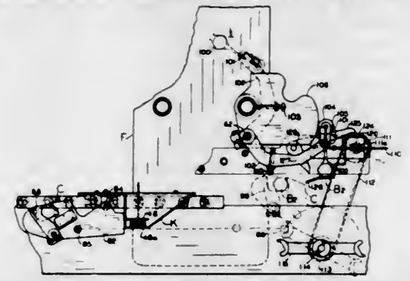


2,669,396
HAMMER MILL SCREEN CHANGING MECHANISM
Arthur G. Nickle, Saginaw, Mich., assignor to Nickle Engineering, Saginaw, Mich.
Application September 27, 1948, Serial No. 51,433
40 Claims. (Cl. 241—89)

1. In a hammer mill or the like including a housing, an arcuate screen which is one of a plurality of similar interchangeable screens removable from and insertable therein, means attached to the housing for supporting the screens exteriorly thereof, an opening in the housing through which a selected screen may be translated, a mechanism for closing the opening, a mechanism for translating the selected screen through the opening, and motor means for actuating said mechanisms in timed relation, said means including an oscillatable element.

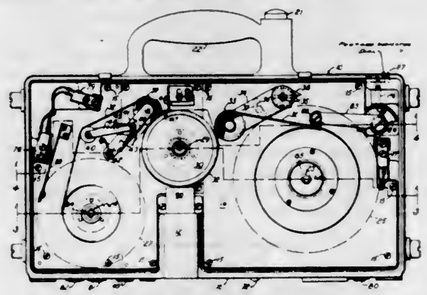
2,669,397
BOBBIN REPLENISHING MECHANISM FOR WINDING MACHINES
Gerald A. Snow, Uxbridge, Mass., and Harold H. Trebes, Windover Hills, Pa., assignors to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application August 9, 1952, Serial No. 303,484
14 Claims. (Cl. 242—35.5)

1. In association with a textile machine, a bobbin-replenishing mechanism comprising means to hold a reserve bobbin, a conveyor having successive units each with a weft bobbin receiver and a bobbin cradle, means to deposit a full bobbin from said textile machine in the first empty receiver to pass under said textile machine after the bobbin therein is fully wound, automatic



means to transfer said bobbin from a cradle and means to store the call for replacement of the reserve bobbin until a cradle with an empty bobbin is moved to transfer position.

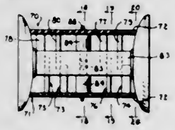
2,669,398
FLOW FILM CAMERA
Harold T. Olson, Baldwin, N. Y., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application October 4, 1949, Serial No. 119,529
5 Claims. (Cl. 242—55)



1. A camera film feed comprising a casing having a longitudinally extending partition, supply and receiving spool spindles rotatably mounted in transversely extending relation in opposite end portions of said partition, a feed spindle rotatably mounted in transversely extending relation in said partition intermediate said first-mentioned spindles, said spindles all having at least one end projecting outwardly from one side of said partition, said ends at one side of said partition projecting into a film compartment in spaced substantially parallel relation, a feed drum mounted on said feed spindle in said film compartment, a primary lever pivoted on said partition, a primary roller rotatably mounted in one end of said primary lever, said primary lever being pivoted on said partition at the opposite end between said feed spindle and supply spool spindle and guiding film between a supply spool and said feed drum, means operating said primary lever to normally maintain tension on the film between the supply spool and feed drum, a second lever pivoted on said partition, a second roller rotatable in one end of said second lever, said second lever being pivoted on said partition at the opposite end between said feed spindle and receiving spool spindle, means normally operating said second lever to move said second roller toward said feed drum to retain a film strip in feeding and engaged relation between the periphery of said drum and second

roller, a third lever pivoted at one end on an intermediate portion of said second lever carrying a film guide roller on the free end, means on said second and third levers normally moving said third lever relative to said second lever and cooperating therewith to normally guide and maintain tension on film during movement from said drum to a receiving spool on said receiving spool spindle, and means for normally operating selected spindles to feed film from the supply to the receiving spool about the periphery of said drum and over said rollers under tension.

2,669,399
FISHING REEL ARBOR
Morris E. Wood, Bronson, Mich., assignor to Higbie Manufacturing Company, a corporation of Michigan
Application April 14, 1951, Serial No. 221,003
53 Claims. (Cl. 242—125)



28. A moulded one-piece arbor section for a fishing reel spool having a shaft, said section having an inner bearing portion shaped to engage the spool shaft and an external arcuate line supporting portion, a pair of flexible members integral with the line supporting portion and located inwardly therefrom for yieldably embracing and contacting the spool shaft for detachably securing the section thereto, means on the section for keying the section to the shaft, and said arcuate portion being provided with a hole extending therethrough in a non-intersecting direction with respect to the longitudinal axis of the section for receiving a fish line.

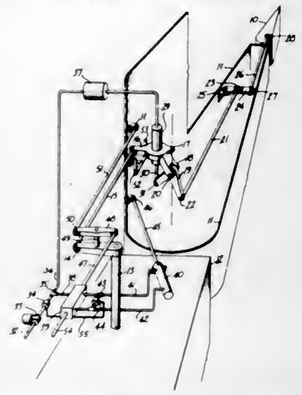
2,669,400
ARBOR FOR SPOOLS
Morris E. Wood, Bronson, Mich., assignor to Higbie Manufacturing Company, a corporation of Michigan
Application April 23, 1951, Serial No. 222,428
16 Claims. (Cl. 242—125)



1. An arbor section for a fishing reel spool having an inner longitudinal bearing portion shaped to engage the spool and an external line supporting portion, and a pair of corresponding longitudinally extending means integral with the line supporting portion and located inwardly therefrom in substantially a single plane for yieldably embracing and contacting a part of the spool for detachably securing the section thereto.

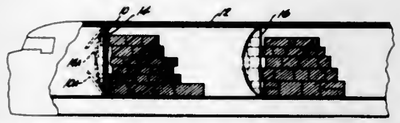
2,669,401
TAB CONTROL
Charles A. Bosserman, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware
Application May 17, 1952, Serial No. 288,488
4 Claims. (Cl. 244—82)

1. In an airplane control system employing a power boost system and tabs on larger airfoils, a means for operating the tabs alternately as a small airfoil when the power boost is energized and as a servo tab when the power boost is not energized, comprising a cross arm rotatably mountable at one end within a large airfoil; a pilot actuated control rod connected to the other end of the cross arm; a deflected extending yoke integral with the cross arm and terminating below its mounted end; a bell crank pivotally fastened to the yoke; a second control rod con-



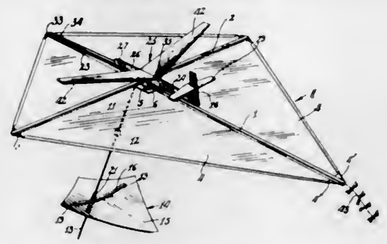
nected to one end of the bell crank and attachable to tab linkages; and a bell crank actuator mounted on the central portion of the cross arm and connected to the other end of the bell crank, the actuator containing a spring normally compressed by the force of the power boost system but expandable upon a power failure to actuate the bell crank, thereby changing the rotational direction of the effective force transmitted to the second control rod as the pilot actuated control rod operates in the same direction.

2,669,402
HIGH STRENGTH CABLE NETWORK FOR IMPACT BULKHEADS
Bruce E. Del Mar, Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Application August 11, 1951, Serial No. 241,475
9 Claims. (Cl. 244—121)



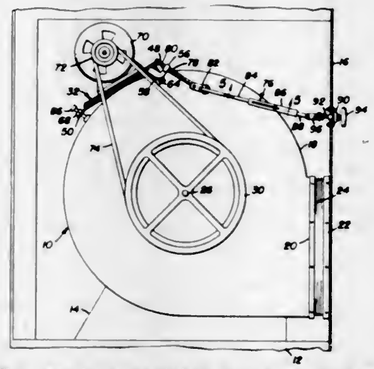
1. Cargo retention means for preventing cargo movement in the fuselage of an airplane in normal operation and for resisting the crash impact of said cargo resulting from rapid deceleration of said aircraft, comprising the combination of: a substantially rigid bulkhead structure disposed laterally of said fuselage to withstand normal service loads imposed by cargo movement; a flexible web disposed in substantial parallelism with the surface of said bulkhead structure and in close proximity thereto in order that it will become subject to tension loading when said bulkhead is initially deformed by impact loads, said web including elongate yieldable bands extending radially outward from points opposite the approximate center of said bulkhead structure; means for retention of the inner ends of said radially disposed bands; a plurality of attachment means securely joining the outer ends of said radially disposed bands to the fuselage, and a plurality of yieldable bands approximately concentrically arranged and secured to said radially disposed bands at their points of intersection; said web being subjected to additional tension loads when the crash impact of said cargo causes said bulkhead structure to fail whereby said web is forced to yieldably extend to thereby absorb the remaining forward inertia of said cargo; said web serving at all times to effectively resist the tendency of the cargo to increase its forward inertia during and after failure of said bulkhead structure.

2,669,403
GLIDER CARRYING AND RELEASING DEVICE FOR KITES
Doris A. McKay nee Milligan, Toronto, Ontario, Canada
Application July 21, 1952, Serial No. 299,983
10 Claims. (Cl. 244—155)



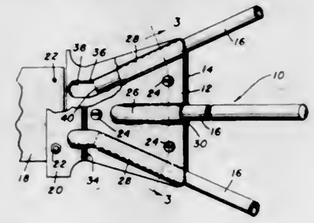
1. A device of the character described comprising a carrier kite having a kite string, a glider releasably mounted on said carrier kite, elastic means connecting said glider and said carrier kite, trigger means pivoted on said kite and normally holding said glider against the force exerted by said elastic means, and means slidable along said kite string adapted to abut said trigger means for releasing said glider from said carrier kite.

2,669,404
VARIABLE-SPEED CONTROL MOTOR MOUNT
Oliver W. Howard, Abilene, Tex., assignor of twenty-five per cent to W. Lee Byrd, Abilene, Tex.
Application January 11, 1952, Serial No. 265,957
2 Claims. (Cl. 248—23)



1. For use in a variable speed control including a motor and a driven shaft, a mounting attachment comprising a first plate adapted to be secured to support means for the driven shaft, a second plate overlying said first plate and being adapted to have secured thereto the motor, said plates having meshing hinge knuckles pivotally connected by a hinge pintle to permit relative hinging of said plates, said first plate having depending therefrom an L-shaped support, a sloping sleeve carried by said L-shaped support, said sleeve being internally threaded and in alignment with a generally spherical socket carried by an upwardly struck tab on said second plate, an adjusting bolt threadedly engaged in said sleeve and having an upper end universally received in said socket, means for facilitating rotation of said bolt to adjust the relationship of said plates.

2,669,405
TELEVISION ANTENNA
Joseph T. Donnelly, Ozone Park, N. Y., assignor to Donnelly Electronics, Inc., Jamaica, N. Y., a corporation of New York
Application August 1, 1949, Serial No. 108,011
1 Claim. (Cl. 248—39)

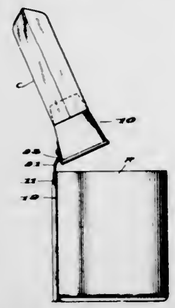


In a television antenna, the combination of a pair of juxtaposed clamping plates each provided with convexo-concave aligned semi-cylindrical ribs which afford in opposing surfaces of the plates a pair of registering grooves defining tubular sockets, a laterally angulated extension provided on the first of said plates for attachment thereof to a support, said extension forming a crease at the juncture with said first plate, the ribs on the first plate extending on said extension substantially perpendicular to said crease to reinforce the latter, said grooves being angulated intermediate the ends thereof whereby each of said sockets affords a straight outer region extending at an angle other than normal to said crease and an angularly offset inner region with said offset inner region extending normal to said crease, said straight outer regions extending divergently relative to each other, said straight outer regions being adapted to slidably receive signal receiving rods with the inner ends of said rods abutting portions of the inner regions of said sockets to limit the extent of insertion of said rods into said sockets and with said rods clampingly held in the angulated portion of said grooves, and fastening elements extending through said plates for securing the same together and adapted to clamp said rods therebetween.

2,669,406
CONTAINER FILLING DEVICE
Charles P. Campbell, East Greenville, Pa., assignor to Perkiomen Products, East Greenville, Pa., a partnership
Application September 27, 1949, Serial No. 118,170
2 Claims. (Cl. 248—94)

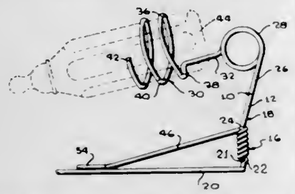
1. A container filling device comprising a base, an extensible standard comprising a hollow lower standard member of relatively flat cross-section

upstanding from the base, an upper wire standard member formed with spaced legs integrally connected at their lower ends and making slidable fitting engagement with the inner surface of the hollow lower standard member and having



integral transversely extending hinge pins at their upper ends, a funnel and hinge bearings on one side of the funnel receiving said hinge pins and mounting the funnel on the standard for vertical swinging movement.

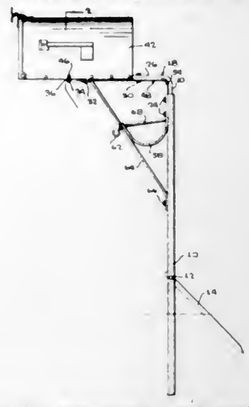
2,669,407
BABY BOTTLE HOLDER
Donald A. Roselle, Racine, Wis.
Application January 26, 1951, Serial No. 207,938
1 Claim. (Cl. 248—107)



In a bottle holder formed of a single piece of spring metal and comprising a flat base frame in the form of a rectangle, a standard rising from one end portion of the rectangle and having the upper end terminating in a hinge coil, an arm arranged longitudinally of and spaced above the rectangle and having one end connected to said hinge coil and having the other end terminating in a spring coil and forming a bottle holder, the other end portion of the rectangle being coiled about said standard thence bent into a clamping arm, the clamping arm being positioned between the rectangle and said arm and having its free end terminating in a foot, said clamping arm extending from said standard to one of the sides of the rectangle and having the foot overlying and engaging said one side of the rectangle.

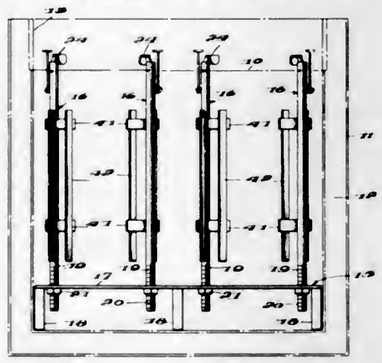
2,669,408
RURAL MAILBOX AND PACKAGE SUPPORT
Andrew W. Cox, Chase City, Va.
Application August 10, 1951, Serial No. 241,213
2 Claims. (Cl. 248—146)

1. A rural mailbox and package support including a post; a horizontal member secured to the upper end adapted for supporting a mailbox upon the post; an inclined brace extending between and connecting said member and post; a wide article support member formed to a substantially right-angled cross-sectional shape at its upper end, whereby to define a horizontal top portion engaging against and underlying the horizontal member, and an intermediate portion disposed vertically for engagement against the post, said article support member having a lower portion of U-shaped cross section integral with and depending from said intermediate portion and extending outwardly from the post into engagement with the brace; a plurality of connecting



elements rigidly attaching said article support member to the horizontal member, post, and brace respectively; and elongated bolts bridg ng said U-shaped lower portion contiguous to opposite sides thereof to prevent spreading of said lower portion, said bolts and U-shaped lower portion defining a space therebetween for insertion of an article and gripping of the article between the bolts and U-shaped lower portion.

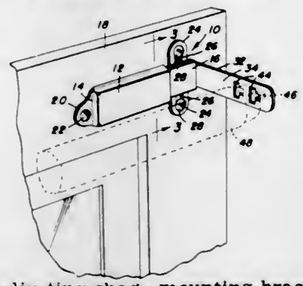
2,669,409
CONTAINER HOLDER
Herbert L. Parsons, New Brunswick, N. J.
Application January 3, 1952, Serial No. 264,710
2 Claims. (Cl. 248—154)



1. A container holder comprising a base member, a pair of spaced substantially vertically disposed uprights extending upwardly from said base member, a plurality of transversely disposed substantially arcuate shaped brackets mounted on each of said uprights and extending laterally and inwardly therefrom to receive and partially enclose a container positioned therebetween, the opposing ends of said brackets being spaced a substantial distance from each other, a plurality of substantially vertically extending laterally spaced guide members secured to said brackets adapted to bear against a container for engaging opposite sides of a container positioned therebetween to support the container against

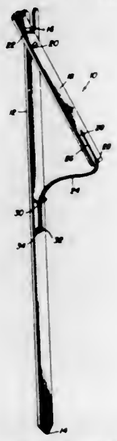
lateral shifting movement, and clamping means pivoted on toggle levers pivotally mounted on said uprights and engageable with the top edge portions of a container for securing the container in fixed position.

2,669,410
SELF-ADJUSTING WINDOW SHADE BRACKET
Abraham I. Coleman, Baltimore, Md.
Application April 21, 1952, Serial No. 283,339
1 Claim. (Cl. 248—271)



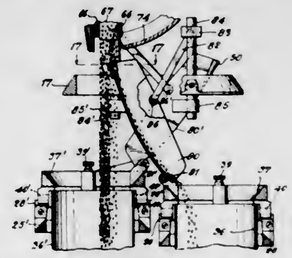
A self-adjusting shade mounting bracket comprising a rectangular shell including a base and a peripheral skirt, an inwardly offset channel-shaped guide projecting from one end of said shell including side flanges connected by a web, attaching lugs extending laterally from said side flanges, tabs struck from said lugs and being disposed in spaced parallel relation to said web, an L-shaped bar having one leg slidably received in said guide and retained therein by said tabs, the free end of said one leg being enlarged and terminating within said shell, resilient means engaging said enlarged end and said one end of said shell and urging said one leg within the housing, the other leg of said bar being disposed exteriorly of said shell and said guide and abutting said guide to limit the inward movement of said bar.

2,669,411
CLOTHESLINE PROP
Harold A. Weir, Youngstown, Ohio
Application April 7, 1949, Serial No. 86,014
1 Claim. (Cl. 248—353)



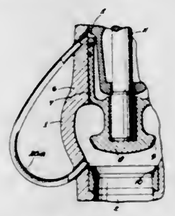
A clothesline prop comprising, a rod having a longitudinal slot in one end portion for the reception of a clothesline, a latch for releasably anchoring the clothesline in the slot, said latch including a bar pivotally mounted, at an intermediate point, on the rod and having a substantially lateral notch in one end portion for the reception of the clothesline, said bar further having a longitudinal kerf in its other end portion, a pair of spaced, relatively wide and narrow loops mounted on the rod adjacent said other end of the bar, a flat spring slidable through the loops and having one end portion engaged longitudinally in the kerf for yieldingly securing the latch in operative position, said spring further being movable laterally in the wide loop, staples in the bar bridging the kerf for securing the spring therein, and a hook on the other end of the spring engageable with the narrow loop for anchoring said spring therein for limited sliding movement.

2,669,412
TWIN BEAM WEIGHER
Leon J. Nowak, Jr., Park Ridge, Ill.
Application May 17, 1951, Serial No. 226,812
19 Claims. (Cl. 249—22)



1. In an automatic weigher, a pair of weight responsive supports, a material receiving receptacle for each said weight responsive support, means for delivering a stream of material alternately toward each receptacle, an individual deflector adjacent each receptacle, means for controllably positioning the deflector of one receptacle in the stream of material directed toward the opposite receptacle, and means for discharging the weighed material.

2,669,413
STOP-CHECK VALVE
James C. Hobbs, Coral Gables, Fla.
Application February 9, 1951, Serial No. 210,156
3 Claims. (Cl. 251—2)



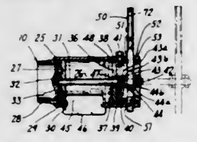
3. A valve for high pressure fluid comprising a body defining inlet and outlet passages for such fluid and a combined valve-receiving opening and piston chamber, means for closing said opening against escape of fluid including a bonnet in said opening, a valve seat in said inlet passage, a piston reciprocable in said piston chamber between the valve seat and bonnet and having guiding engagement with the walls of said chamber, a valve movable with said piston, a valve stem engageable with said piston and ex-

tending out through said bonnet, and means operative throughout the time high pressure fluid is flowing through said inlet opening continuously to remove from said outer end of the piston chamber fluid which has leaked thereinto past the piston, said means including a constantly open pipe having an inlet end communicating with the outer end of said piston chamber and an outlet end projecting into the stream of high pressure fluid flowing from said inlet passage, the downstream side of said outlet end being cut away on an acute angle to the longitudinal center line of the pipe to afford an opening to discharge fluid withdrawn from said piston chamber, and the upstream side of said outlet end constituting an obstruction deflecting the flow of said stream of fluid away from the opening in said outlet end.

2,669,414
VALVE

Paul A. Ketchpel, Englewood, and Herman K. Egli, New Milford, N. J., assignors to Ketchpel Engineering Company, West Englewood, N. J., a corporation

Application October 20, 1948, Serial No. 55,626
5 Claims. (Cl. 251—40)



1. In a valve, a valve body, a passageway with an inlet and an outlet in said valve body, the medial axis of each said inlet and outlet being positioned angularly to each other, said valve body comprising an external housing made from commercial wrought tubing and being reduced in diameter at one end by a nipple being welded into the external housing, the external end of said nipple being threaded for mounting said valve and the internal end providing a valve seat, a back wall mounted in said valve body with liberal clearance, said back wall having an aperture at its center, a piston valve slidably mounted in said valve body for cooperating with said valve seat to close said passageway, said piston valve provided with a valve rod which is slidably mounted in said aperture in said back wall, said back wall provided with external and internal grooves, compressible sealing members mounted in said grooves to effect a tight seal between said valve body and said piston rod, said back wall being held in position by means extending laterally through apertures in the wall of said valve body, said valve rod extending to the back end of said valve body and valve actuating means mounted on said valve rod and cooperating with means associated with said valve body to close said valve, said means associated with said body arranged to permit the valve actuating means to disengage therefrom when the valve piston is slid longitudinally to open the valve.

2,669,415
MANUALLY OPERATED SHUTOFF VALVE

John Gilroy, Sun Prairie, Wis., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application January 4, 1950, Serial No. 136,764
3 Claims. (Cl. 251—45)

1. A valve comprising a body portion having an externally threaded boss and having a cylindrical cavity extending axially through the boss and into the body portion, the body portion also having an inlet gas passage leading to said cavity and an outlet gas passage leading from said cavity at a region spaced along the length of the cavity from the juncture thereof with the inlet gas passage, a valve stem slidably guided in a portion of said cavity and having a packing ring cooperating with the wall thereof to produce a gas-tight seal around the valve stem, a hollow internally threaded knob having threaded engagement with said boss, a portion of the valve stem projecting into the interior of the knob, said portion of the valve stem extending only partially into the knob and having such outer dimensions relative to the interior dimensions of said knob that substantial clearance is maintained at all

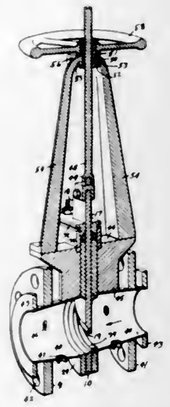


points between said stem and said knob, a pin carried by the knob and extending transversely across the space within it, said portion of the valve stem having a circular opening extending through it, the diameter of which is substantially greater than the diameter of the pin, said pin freely passing through said opening whereby turning of the knob on the boss moves the valve stem longitudinally in said cavity without causing it to cock and bind, and a ring of resilient material carried by the valve stem and in one position of the valve stem making contact with the wall of the cavity between the points of juncture therewith of the inlet and outlet gas passages to thereby shut off communication between said gas passages and in a different position of the valve stem placing the gas passages in communication with each other.

2,669,416
FABRICATED VALVE WITH REMOVABLE SELF-CLEANING SEAT

Harold S. Hilton, Portland, Oreg., assignor to Fabri-Valve Company of America, Portland, Oreg.

Application April 11, 1950, Serial No. 155,258
2 Claims. (Cl. 251—51)

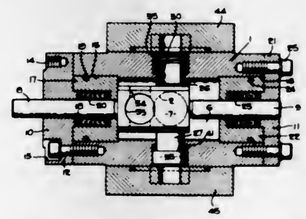


1. A fabricated stock valve comprising a U-shaped gate guide spacer having upturned tongues on its open ends, a pair of valve body plates disposed against the opposite sides of said spacer and having a valve opening therein registering with the opening in the closed end of said U-shaped member and exceeding same in radius, said plates having closed portions forming cover plates across the open ends of said spacer, the closed end of said body plates having cut-out portions extending between the adjacent faces of said upturned tongues, bars forming covers for said cut-out portions, a rectangular gland disposed between said bars and upturned tongues, a gate slidably occupying said gland having one rounded end, the edge of which is chisel shaped, tapering shells having their larger ends welded to said valve body members around the openings therein, a clamping flange slidably mounted on each of said shells, a smaller flange secured on the outer end of each shell and means for moving said gate between the sides of said U-shaped member.

2,669,417
BALANCED SLIDE VALVE FOR HIGH HYDRAULIC PRESSURES

William A. Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California

Application June 29, 1950, Serial No. 171,071
10 Claims. (Cl. 251—78)

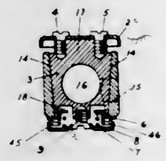


1. In a slide valve structure: a body having an inlet opening and an outlet opening, as well as a chamber transverse to the outlet opening; and a slide in said chamber movable in said chamber in a direction transverse to the outlet opening, and having a first transverse port communicating at all times with the chamber, as well as a second transverse port intersecting the first transverse port and opening on opposite sides of the slide; said slide having radial clearance with respect to the chamber; the body having means forming a pair of passages, both extending from the inlet opening and into the chamber, said means contacting opposite sides of the slide, said slide serving to cover said passage openings when the slide is in closing position.

2,669,418
VALVE

Isaac Vernon Brumbaugh, Clayton, Mo.

Application July 28, 1948, Serial No. 41,099
6 Claims. (Cl. 251—112)

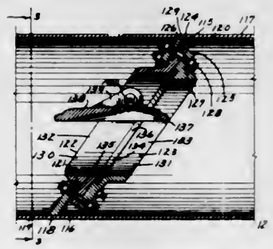


1. A valve comprising a body having a gas passageway and a tapered plug bore intersecting said passageway; a tapered plug in said bore having a sealing contact with said bore throughout substantially the entire length of said plug bore, having at its smaller end a central hole and having an annular channel spaced from and surrounding said hole and extending into said plug farther than the lower end of said plug bore; means secured to said plug at said hole for forming an outer spring abutment; a bridging element consisting of a bridging member having an inner abutment portion extending into said channel and forming an inner spring abutment, having an intermediate portion bridging the edge of the smaller end of the plug, and having an outer bearing portion bearing on the portion of the body surrounding said smaller end of the plug; and a spring interposed between said outer spring abutment means and said inner abutment portion of said bridging element for maintaining said plug in sealing contact in said bore.

2,669,419
WELD IN PIPE LINE VALVE STRUCTURE

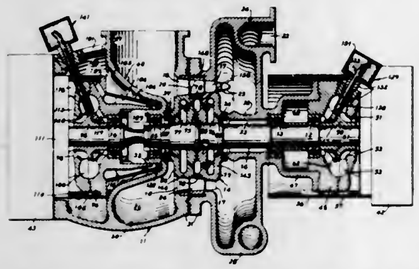
Farrile S. Young, Houston, Tex., assignor to Panhandle Eastern Pipe Line Company, Kansas City, Mo., a corporation of Delaware

Application August 23, 1950, Serial No. 180,926
3 Claims. (Cl. 251—123)



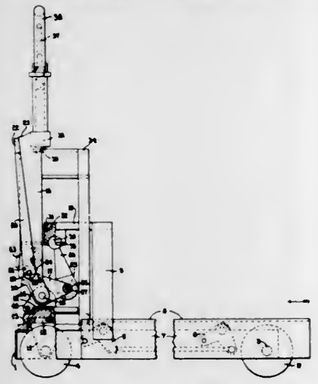
1. A valve of the character described comprising, a section of a pipe of substantially uniform size and adapted to be welded in a pipe line, a ring member having a periphery closely fitting and slidable inside of the pipe line section for positioning of said ring member, a weld extending around the periphery of the ring member and securing the ring member in selected position in the pipe line section, said weld forming a seal against leakage between the ring member and pipe line section, separable forward and rear members with substantially aligned passageways therethrough, means for securing said members together and to the ring member in fluidtight relationship, said members having substantially flat adjacent faces arranged at an angle to the direction of fluid flow through the pipe line section, the face of the rear member provided with a recess around the passageway thereof, a seat member seated in said recess provided with a passageway therethrough and a tapering seat around the passageway on the face thereof adjacent the forward member, the face of the forward member provided with a portion overlying the marginal portions of said face of the seat member, a disk for engaging said seat of the seat member, and pivotal connections connecting said disk and forward member disposed at a side of the axis of the disk and wholly within the passageway of the forward member for swinging movement of the disk between closed and open positions in said passageway and independently thereof, whereby as fluid flowing through the valve moves the disk to open position the pivotal connections are at a side of said disk away from the axis of the passageways and out of the central main flow of fluid.

2,669,420
TURBINE STRUCTURE
Hans T. Holzwarth, Westfield, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application July 3, 1948, Serial No. 36,946
3 Claims. (Cl. 253—39.1)



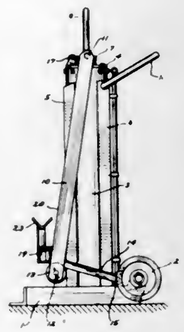
1. A power unit comprising a casing, a hollow turbine wheel in said casing having end faces and also passages establishing flow communication through the hollow of said wheel from one region on the outside of said wheel to another region on the outside of said wheel, sealing means between each of the opposite end faces of said wheel and said casing, a shaft for said turbine wheel, bearings between said shaft and said casing, air passage means extending through said bearings past said sealing means and to one of said outside wheel regions, and means mounted on said shaft for producing air currents for flow through said air passage means to cool said bearings and said turbine wheel and to prevent leakage of turbine motive fluid out of said casing through said sealing means.

2,669,421
LIFTING AND TRANSPORTING TRUCK
John Brynmor Williams, Parbold, near Wigan, England, assignor to Ajax Trucks Limited, Manchester, England, a British company
Application October 12, 1951, Serial No. 250,993
3 Claims. (Cl. 254—2)



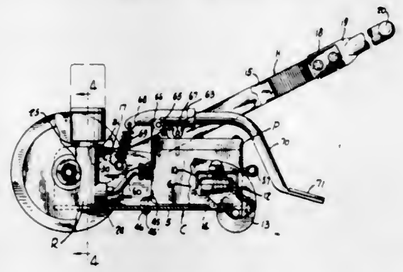
2. A lifting and transporting truck comprising a truck chassis, a truck platform liftably connected to the chassis by pivoted link means, a toggle joint operatively connected at its ends to the chassis and platform for lifting the platform, a stop on the chassis which limits the extent of angular motion of the toggle joint for locking the said joint against further movement in one direction after it has passed its state of full extension, a lifting and hauling handle lever connected to the chassis, a retractable pin on the handle lever, a shoulder on the toggle joint engaged by the said pin for operation of the toggle joint in the platform lifting direction, a rockable trip pedal pivotally mounted on and participating in the movements and changes of position of the handle lever relative to the toggle joint, the trip pedal being located operatively close to the toggle joint only when the handle lever is raised into an inoperative position and usable only when the handle lever is in that position, for displacement of the toggle joint in the platform lowering direction by forced impingement against the said toggle joint.

2,669,422
BUMPER JACK
Charles E. Branick, Fargo, N. Dak.
Application July 10, 1952, Serial No. 298,019
1 Claim. (Cl. 254—2)



In a portable fluid pressure jack, a mounting base, an elongated vertically disposed pressure cylinder on said base, guide means at the opposite sides of the longitudinal axis of said cylinder providing surfaces parallel to the longitudinal axis thereof, a fluid pressure operated piston within said cylinder, a plunger rod carried by said piston and projecting upwardly through the upper end of said cylinder, a cross-head rigidly connected to the outer projecting portion of said plunger rod and extending laterally outwardly therefrom in the vertical plane common to said guide means and longitudinal axis of the cylinder and terminating adjacent one end of said guide means, said rod and cross-head moving upwardly in said vertical plane upon actuation of said piston by said fluid pressure, a load lifting structure including lifting links connected to said cross-head and depending therefrom to points adjacent the opposite ends of said guides, an extensible and retractible load lifting beam connecting the lower ends of said links together, anti-friction means carried by said links and engaging said guides adjacent said load lifting beam, said load lifting beam extending forward of the cylinder and horizontally disposed in relation to said longitudinal axis thereof, said beam comprising a rigid intermediate section projecting laterally outwardly beyond said guides, adjustable end sections of polygonal cross-section configuration slidably mounted for relative longitudinal movements on said rigid section, and lifting heads carried by the outer end portions of said end sections.

2,669,423
HYDRAULIC LIFT JACK
Sven J. Pehrsson, Elyria, Ohio, assignor, by mesne assignments, to The Colson Corporation, Elyria, Ohio, a corporation of Ohio
Application April 24, 1952, Serial No. 284,102
1 Claim. (Cl. 254—2.2)



An hydraulic lift jack comprising, a carriage having a base and spaced side walls connected to said base, a transversely extending axle at one end of said carriage supported by said side walls, wheels journalled on the ends of said axle, transversely extending arms at the other end of said carriage secured to said side walls, a caster assembly including a caster carried by each of said arms in longitudinal alignment with one of said wheels on the same side of the carriage, a ram having a piston movable in directions normal to said base, said ram being supported by said base along the longitudinal axis thereof adjacent said axle, a transverse plate detachably secured to said side walls, said plate engaging said ram remote from said base to secure same on said base and having a central opening through which said ram piston extends, the sides defining said opening engaging said piston to guide same in vertical movements, an hydraulic pumping unit detachably secured to said base and hydraulically connected to said ram, said pumping unit including a manually adjustable valve to control the direction of flow of fluid between said pumping unit and said ram, a valve control lever located at the other end of said carriage remote from said ram and operably connected to said valve, a treadle operably connected to said pump unit to pump fluid from said pump unit to said ram to raise said ram piston, said treadle extending from said other end of said carriage, and a pull handle pivotally connected to said carriage adjacent said ram, said handle extending beyond said other end of said carriage.

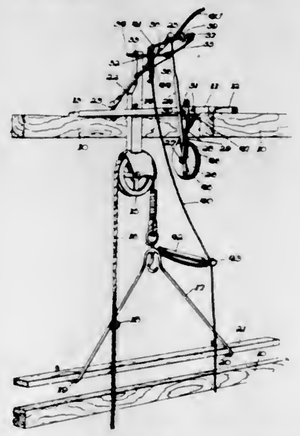
2,669,424
BUMPER JACK
Charles E. Branick, Fargo, N. Dak.
Application July 31, 1952, Serial No. 301,825
7 Claims. (Cl. 254—93)

3. In a portable fluid pressure jack structure comprising a base, a pressure cylinder mounted on said base, a piston in said cylinder, a plunger rod secured to said piston and projecting through a head on said cylinder, guide means at opposite sides of the axis of said cylinder, a cross-head rigidly connected to the outer projecting portion of said plunger, a load lifting structure including a bracket connected to said cross-head and extending outwardly from one side of said cylinder, anti-friction means intermediate said load lifting structure and said guides adjacent said load lifting bracket and an automatic locking means pivotally secured to said jack for swinging movements of its free end to and from the vertical, said locking means in one position having its free end in contact with a portion of the jack above said base and disposed in the path of said load lifting structure, said load lifting structure in its upward movement engaging



said locking means in said one position and said locking means being biased for automatic engagement under a portion of said load lifting structure preventing said structure from returning to its lower position.

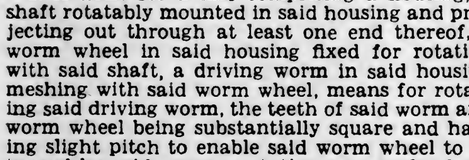
2,669,425
HOISTING APPARATUS
Alvin Gaskin, Russell Springs, Ky.; Morris Montgomery, Liberty, Ky., executor of said Alvin Gaskin, deceased
Application June 23, 1952, Serial No. 295,068
4 Claims. (Cl. 254—140)



1. In hoisting apparatus including pairs of spaced parallel supporting rafters, a beam rotatably supported across a pair of rafters, a cross member secured to said beam, a pulley rotatably mounted on one end of said cross member, a hoisting rope passing through said pulley, a hoisting frame carried by said hoisting rope, an eye on said frame to receive said hoisting rope, a guide rope, extensible means secured to said frame at one end and receiving said guide rope at its other end, and linkage means connecting said guide rope to the end of said cross member opposite said pulley, said linkage means including an arm universally mounted at one end on said beam, a second arm universally connected to the other end of said first arm and universally connected to said beam at its other end and resilient means for rotating said arms into the plane of

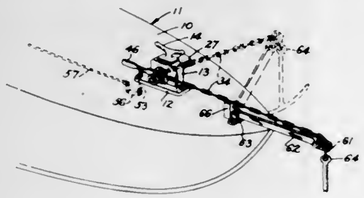
said beam, said guide rope connecting adjacent the universal connection between said arms and linked to the end of said cross member opposite said pulley.

2,669,426
POWER UNIT
Alfred A. Anglemyer, Dayton, Ohio
Application October 26, 1950, Serial No. 192,328
5 Claims. (Cl. 254—164)



2. In a power device, a support comprising a pair of spaced frame members, a drum mounted between said frame members, means for rotatably mounting said drum between said frame members, a ratchet drivingly connected to said drum, flexible means having one end thereof secured to said drum, an operating handle pivotally mounted on said support, a feed pawl pivotally supported on said handle and arranged to engage said ratchet, a stamped sheet metal housing element for partially enclosing said drum, said stamped sheet metal housing element comprising a substantially U-shaped stamping having the arms thereof straddling said drum and held in place on said support by said means for mounting the drum on the support, and a substantially U-shaped spring clamp supported by said housing element and having the arms thereof arranged adjacent said drum to guide said flexible means.

2,669,427
ANCHOR HOIST
Antone Dowrelio, Crockett, Calif.
Application May 28, 1951, Serial No. 228,629
2 Claims. (Cl. 254—187)



1. A hoist for a line comprising a housing, a shaft rotatably mounted in said housing and projecting out through at least one end thereof, a worm wheel in said housing fixed for rotation with said shaft, a driving worm in said housing meshing with said worm wheel, means for rotating said driving worm, the teeth of said worm and worm wheel being substantially square and having slight pitch to enable said worm wheel to be turned by said worm, a stationary annular helical cam on one side of the exterior of said housing, said shaft projecting through and beyond said helical cam, a nut on the outer end of said shaft, a rotatable member loosely mounted on said shaft between said nut and said annular cam, line-engaging means on said rotatable member arranged upon rotation to hoist said line, at least one friction member longitudinally slidable on said shaft and fixed for rotation therewith, cam means engageable with said annular cam to move said cam means longitudinally of said shaft and force said rotatable member and friction member into engagement to cause rotation of said rotatable member, a thrust bearing interposed between said cam means and said friction member, an annular seal surrounding said thrust bearing and sealing against said cam means and said friction member, and manually operable means to control engagement of said cam means and said annular cam.

2,669,428
APPARATUS FOR DRILLING LATERAL BORES DEVIATING FROM VERTICAL WELL BORES
John A. Zublin, Los Angeles, Calif.
Application January 17, 1951, Serial No. 206,363
3 Claims. (Cl. 255—1.6)



1. A unit attachable to the lower end of a rotary drill string and insertable into a vertical well bore for drilling lateral bores deviating from existing vertical well bores comprising in combination a first non-resilient flexible tubular drill string member, means for securing the upper end of said flexible drill string member to the lower end of a conventional rotary drill string, a second non-resilient flexible tubular member secured to the lower end of said first flexible tubular member and rotatable in unison therewith, a drill bit secured to the lower end of and rotatable in unison with said second flexible tubular member, a short rigid curved drill guide carried on and surrounding said second flexible non-resilient tubular member, said second flexible non-resilient tubular member being free to rotate within said rigid drill guide, means rotatably securing said bit to the lower end of said guide, a whipstock, means carried by the whipstock for seating and holding said rigid curved drill guide against rotation while said flexible non-resilient members and said bit are rotated to initiate drilling of a lateral bore deviating from a vertical bore on a curvature of the same radius as the radius of curvature of said short rigid curved drill guide, whereby said flexible non-resilient members and said rigid curved drill guide follow the bit into a curved deviating bore as drilled thereby.

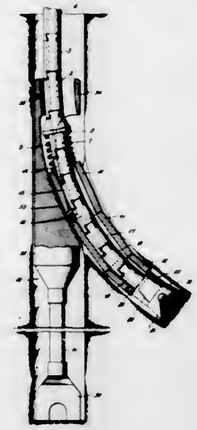
2,669,429
APPARATUS FOR DRILLING DEVIATING BORES UTILIZING A PLURALITY OF CURVED TUBULAR DRILL GUIDE SECTIONS
John A. Zublin, Los Angeles, Calif.
Application November 6, 1951, Serial No. 255,026
3 Claims. (Cl. 255—1.6)



1. Apparatus for drilling a lateral bore deviating from an existing vertical well bore comprising a flexible, non-resilient drill string section, a drill bit secured to the lower end of and rotatable with said flexible drill string section, a plurality of relatively short independent rigid curved tubular drill guide sections mounted for independent rotation on said flexible drill string section, said drill guide sections when disposed in one relative position of rotation holding said flexible drill string section in a succession of reversed curves and when moved to another relative position of rotation holding said flexible drill string section in a substantially continuous curve and a whip-stock over which said curved drill guide sections may pass to insure their being brought from said first relative position of rotation to said latter relative position of rotation.

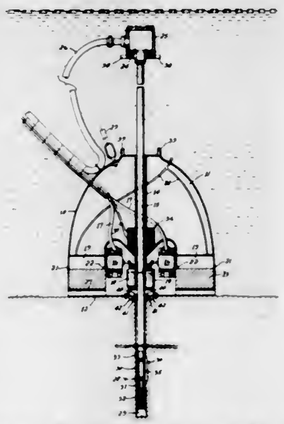
2,669,430
APPARATUS FOR DRILLING DEVIATING BORES UTILIZING A PLURALITY OF STRAIGHT TUBULAR DRILL GUIDE SECTIONS
John A. Zublin, Los Angeles, Calif.
Application November 6, 1951, Serial No. 255,027
4 Claims. (Cl. 255—1.6)

1. Apparatus for drilling a lateral bore deviating from an existing well bore comprising a flexible, non-resilient drill string section, a drill bit secured to the lower end of and rotatable with said drill string section, a plurality of rigid, tubular drill guide sections in end to end engaging relationship surrounding said drill string section above said drill bit said drill guide sections being rotatably mounted on said drill string section and being independently rotatable relative to each other and relative to said drill string section, the length of said tubular guide sections being greater through one half of the circumference thereof than through the other half, adjacent ends of said tubular guide sections having complementary engaging angular circumferentially extending camming surfaces, said camming surfaces when moved to one limit of their camming action positioning said sections in a substantially straight line, and when moved to the opposite limit of their camming action positioning said sections at an obtuse angle relative to each other, a whipstock having a deflecting guideway through which the assembly passes to first deflect the drill bit laterally to initiate drilling of a



lateral bore and to thereafter cause adjacent drill guide sections to form an obtuse angle, and means for resisting relative rotation of adjacent tubular drill guide sections while such sections are forming an obtuse angle.

2,669,431
EARTH DRILLING APPARATUS
John H. Crowell, Houston, Tex., assignor to Crowell Consulting Company, Houston, Tex., a copartnership
Application April 24, 1948, Serial No. 23,053
13 Claims. (Cl. 255—2)



1. Apparatus for drilling into earth formations at the bottom of a body of water comprising a bell having a closed buoyancy chamber in its upper portion and a ballasted lower portion, a vertical drill pipe extending through and held upright by said bell, said drill pipe being rotatably and vertically movable relative to the bell, a drill bit on the lower end of said pipe, a water inlet box swivelly connected to the drill pipe at its upper end, a hose connected to said inlet box for delivering a stream of water to the interior of the drill pipe, a motor for rotating the drill pipe when the bell is submerged to the bottom of the

body of water, a vertical mast extending upwardly from the bell, and a projection extending laterally from the inlet box into engagement with the mast, whereby accidental rotation of the inlet box with the drill pipe and danger of entanglement of the hose with the drill pipe is prevented.

2,669,432

Herbert C. Dill, William H. Lyne, and Robert W. Schlumpf, Houston, Tex., assignors to Hughes Tool Company, Houston, Tex., a corporation of Delaware

Application October 17, 1949, Serial No. 121,728

3 Claims. (Cl. 255—347)



1. A roller cutter for earth boring tools made up of a cutter body and cutting elements integral therewith and wear resistant inserts substantially radially disposed in said cutting elements; wherein the inserts are composed of sintered carbide and wherein the cutter body and cutting elements comprise cast steel, said inserts being rigidly bonded to the cutting elements by interfusion of the metal of said elements with the inserts, whereby a zone of material, comprising alloys composed of the base metal and insert metal and varying in increasing and decreasing amounts of each metal from the metal to the insert, is provided between the cutting element and the insert.

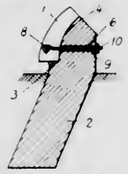
2,669,433

SAFETY FENCE FOR MOTOR ROADS

Svend Aage Rasmussen, Silkeborg, Denmark

Application July 24, 1952, Serial No. 300,601

7 Claims. (Cl. 256—13.1)



1. A safety fence for roads comprising, spaced supporting members each having a through hole opening in the front face of the support medial to the side edges thereof, guard plates of slightly less length than the distance between centers of said supports mounted upon said supports in longitudinal alignment with adjacent edges of adjacent plates lying on opposite sides of said openings and spaced apart by at least the width of said openings, matching and confronting openings in adjacent edges of adjacent plates, dowel pins in the openings in said plates bridging the space between adjacent plates, hooks engageable over said dowels and having shanks extending through the openings in said supports, and means to tension the shanks of said hooks longitudinally away from said dowels.

2,669,434

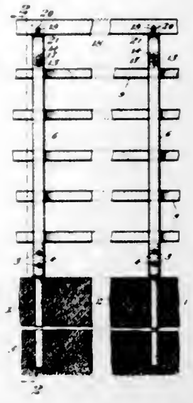
STOCKYARD FENCE

William E. White, Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania

Application February 1, 1952, Serial No. 269,446

5 Claims. (Cl. 256—59)

1. In a fence, the combination of a pair of parallel uprights, a plurality of alternately superposed pairs of metal spacers and lateral metal rails between said uprights, and a metal spreader



connecting the uprights and having removable compression means downwardly engaging the topmost lateral rail.

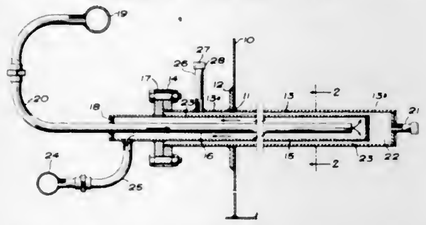
2,669,435

IMMERSION HEATER

Howard O. Cord, Chicago, Ill., Bruce G. Merten, Munster, Ind., and Charles J. Ryant, Jr., Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application April 27, 1951, Serial No. 223,404

6 Claims. (Cl. 257—192)



1. A tank heater of the reverse flow type adapted to be mounted through a port in a tank shell, comprising a casing open at one end and closed at the other, a support flange about the open end of said casing, a heating unit within said casing, flange means carried by said heating unit and cooperating with said support flange to seal the open end of said casing, a fluent granular substance of high thermal conductivity substantially filling the volume of the casing not occupied by said unit, a fill duct communicating with the closed end of said casing for introducing said granular substance means for supplying steam to said unit, means for withdrawing condensate from another portion of said unit, and a tell-tale duct communicating with the interior of said casing exterior of said tank shell.

2,669,436

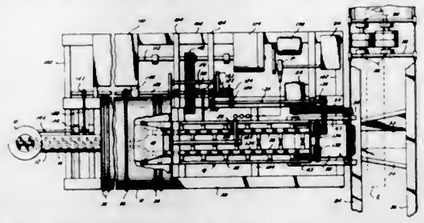
APPARATUS FOR PREPARING AND APPLYING PLASTIC COATING MATERIAL

Carl K. Smith, Corpus Christi, Tex.

Application May 25, 1951, Serial No. 228,289

2 Claims. (Cl. 259—2)

1. In apparatus for the continuous preparation and application of plastic coating material, an endless belt, a rotatable member supported in spaced relation to said belt and having a material-engaging peripheral portion forming with said belt a discharge passageway, a rotatable drum, conveyor means having an inlet in said drum and an outlet leading to said belt, means in the drum for mixing dry coating ingredients and introducing the same into said inlet, means for introducing moisture into said ingredients in said conveyor means, means in said conveyor means for agitating said ingredients during moistening of the same to form a plastic coating material and for discharging said material through said



outlet, means for driving said belt to propel said material from said outlet through said passageway, a return conveyor extending into said drum, a receiver positioned to receive material from said passageway and to discharge said material on said return conveyor, means in said drum separating said material in the drum from said dry ingredients, means in said drum for introducing said material into said inlet, and means for simultaneously actuating said drum and said mixing and discharging means.

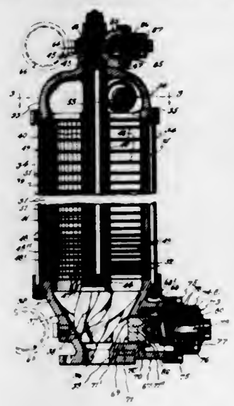
2,669,437

NONROTARY GEL FUEL HOMOGENIZER

Leon Jean Geeraert, Brooklyn, N. Y., assignor to The Geeraert Corporation, New York, N. Y., a corporation of New York

Application July 26, 1952, Serial No. 301,129

10 Claims. (Cl. 259—4)



1. A non-rotary homogenizer for producing a colloidally dispersed stable combination of a dispersed phase ingredient and a continuous phase ingredient comprising: structural means providing a cylindrical vortex chamber having an intake port at one end to admit said continuous phase ingredient under externally applied pressure and a discharge port for the combined product at its opposite end, said structural means also providing an intake port for the dispersed phase ingredient not directly communicating with the vortex chamber; immobile spiral flow generating means located in a primary zone and connected with the intake port for the continuous phase ingredient to impart initial vortical motion to said ingredient under the influence of its pressure when admitted to the vortex chamber in a secondary zone and thereby generate a central vortex tube in the fluid stream; and injection means for said dispersed phase ingredient comprising a conduit leading from the intake port therefor into the center of the secondary zone in the vortex chamber and having minute orifices in this zone only which establish communication between said conduit and the vortex tube of the fluid stream, whereby vaporizing suction is exerted by said vortex tube upon the dispersed phase ingredient inside said injection conduit prior to issuance through the orifices thereof.

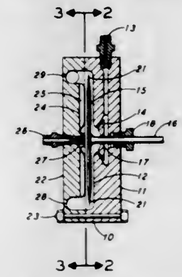
2,669,438

LIQUID MIXER AND METHOD OF MIXING

George C. Gester, Jr., Berkeley, and Donald B. Sewell, Concord, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application March 8, 1951, Serial No. 214,554

6 Claims. (Cl. 259—9)



1. A method of mixing dissimilar liquids comprising the steps of forming separate rotating plane films of said liquids, merging said films in a plane and flowing the merged films radially outwardly in a confined path into a mixing zone to form an intimate dispersion of one liquid in the other liquid.

2,669,439

SIPHON BOTTLE WITH GAS GENERATOR

Pierre Michel Eugène Deshayes, Paris, France

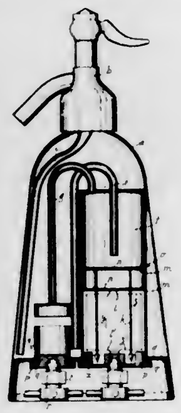
Application December 7, 1951, Serial No. 260,506

Claims priority, application France December 14, 1950

4 Claims. (Cl. 261—121)

1. In a siphon bottle, a container open at the top, a valved head adapted to be connected in a watertight manner to the open top of said container and having a depending plunging pipe adapted to enter said container and extend close to the bottom thereof and through which the liquid contained in said container can be forced through said valve head by any gas pressure in said container, a gas generator of a smaller volume than said container and arranged in a fixed manner entirely within the latter to leave between said container and generator a liquid storage space, said generator being adapted to accommodate a reagent receptacle, the bottom of said generator comprising a portion of the bottom of said container, one filling opening in the bottom of said container for permitting water to be supplied simultaneously to said container and said generator, a baffle consisting of a sleeve surrounding said filling opening and projecting

inside said container to provide a free space at the end of the liquid filling operation in the inverted position of said bottle, a filling opening in the bottom of said generator for introducing the reagents into said generator, means for sealing in a water-tight manner each of said filling openings, positioning means in said generator for positioning said reagent receptacle inserted therein at such a distance from the top of said generator as to provide a free space in said generator above said reagent receptacle positioned therein, a first U-shaped tube having a small branch opening in the top of said generator and a long branch terminated by a funnel arranged close to the inner end of said baffle, to lead water into said generator during the water filling operation and subsequently inversely to lead the gas from said generator into said liquid storage space during the saturating operation, and a second U-shaped air discharge tube having a small branch extended through the top of said generator and terminating close to said positioning means and a long branch extended through said liquid storage space, and terminating close to the bottom thereof for automatically dosing the necessary amount of water to be admitted through said first tube into said generator, both tubes being located inside said container, whereby the gas producing operation takes place from its commencement without any communication with the exterior, and not before any desired moment as long as the siphon bottle once ready for use is left in inverse position.



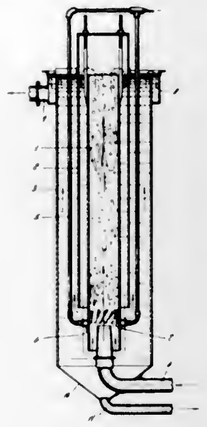
2,669,440

APPARATUS FOR THE AERATION OF WATER FOR PURIFICATION PURPOSES

Pieter Cornelis Lindenbergh, Katwijk, a/d Rijn, Netherlands, assignor to N. V. Leidsche Duinwater Maatschappij, Leiden, Netherlands, a corporation of the Netherlands

Application September 10, 1951, Serial No. 245,815
Claims priority, application Netherlands September 12, 1950
2 Claims. (Cl. 261—124)

1. An apparatus for aerating water comprising a substantially vertical outer tube having a water outlet at the top and being closed at the bottom, a substantially vertical inner tube, substantially coaxially disposed within said first named outer tube and terminating at some distance above the bottom of said outer tube, a substantially vertical intermediate tube, substantially coaxially disposed within the space between said first named outer tube and said second named inner tube and terminating at a greater distance above the bottom than said second named inner tube, the space confined between said intermediate tube and said inner tube being connected at the top of said inner tube, a water inlet nozzle projecting into the bottom extremity of said second named inner tube and being substantially coaxially arranged with said inner tube, said water inlet nozzle and said inner tube together confining an annular passage having an appreciable cross-sectional area, and a plurality of air-inlets in the wall of said second named inner tube circumferentially spaced apart and located at substantially the same level as the top of said water inlet nozzle, said air-inlets being connected to at least one air-supply conduit, and terminating in nozzles projecting upwardly in various directions.

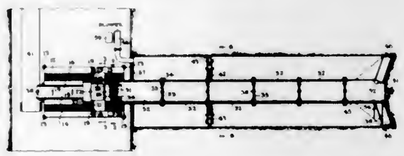


2,669,441

COAL BORING UNIT

Alder F. Castanoli, Huntington, and Desmond F. Parker, Charleston, W. Va.

Application January 4, 1950, Serial No. 136,716
4 Claims. (Cl. 262—7)



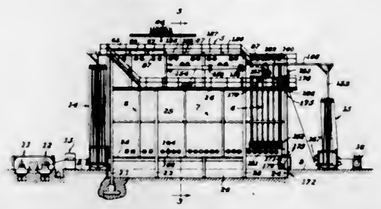
1. The combination of a generally horizontal tubular boring bar comprising separable sections; means for releasably connecting said sections end to end; helical conveyor flights carried by and projecting radially from the inner surface of the tubular sections; a boring head comprising cutting means and elevating means, connected to one end of said boring bar, the boring head being of a diameter several times that of the bar and being rendered effective by rotation of the bar to lift cuttings and deliver them to the interior of the tubular boring bar; and driving means operatively associated with the other end of the boring bar and operable to rotate the boring bar and to advance it in the direction of its axis, said boring bar being the sole means to transmit torque between the driving means and the boring head.

2,669,442

ANNEALING APPARATUS

John E. Erhardt, Jr., Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York

Application August 24, 1948, Serial No. 45,847
21 Claims. (Cl. 263—3)



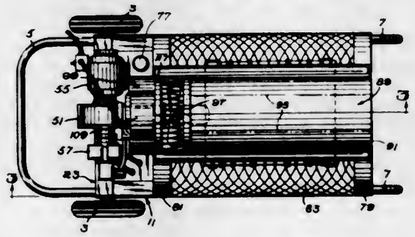
14. An apparatus for annealing strip steel, comprising vertically disposed parallel horizontally and vertically elongated front and back longitudinal walls, a plurality of transverse walls dividing the space therebetween into a plurality of vertically elongated parallel heating chambers, a plurality of removable covers supported by the longitudinal walls and by alternate transverse walls, each substantially coextensive in area with and closing the upper ends of a pair of chambers therebelow, a plurality of removable bottom closure members, each substantially coextensive in area with and closing a pair of chambers thereabove, roll means below the covers for guiding the strip from one chamber to the next, and roll means above the removable bottom closures for guiding the strip from one chamber to the next.

2,669,443

APPARATUS FOR GENERATING AND DELIVERING HOT GASEOUS PRODUCTS

Ralston M. Sherman, Glastonbury, Conn., assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn., a corporation of Connecticut

Application July 13, 1950, Serial No. 173,574
2 Claims. (Cl. 263—19)



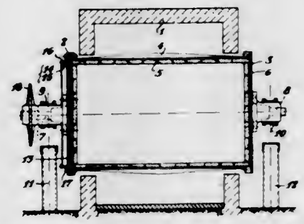
1. Apparatus for both radiating heat and producing a blast of hot gaseous heating medium, said apparatus having oil burning means comprising a combustion chamber and means for entering into said chamber a mixture of atomized fuel oil and combustion supporting air and causing such oil to burn in said chamber with a flame in out-of-contacting relation with the surrounding walls of said chamber; which surrounding walls are constituted by opposite end walls and, connecting said end walls, a horizontally extending substantially cylindrical lateral wall of thin heat refractory material exposed to the surrounding atmosphere and adapted to be heated to incandescence by said flame for radiating heat outwardly thereof and for heating the surrounding air in contact with its exterior; said lateral wall being formed with a multitude of small perforations for discharge of combustion products from said chamber for admixture with such heated air at the exterior of said wall to form a hot gaseous mixture; a horizontal conduit, of at least approximately the horizontal length of said combustion chamber, positioned above said lateral wall in vertical spaced relation thereto and extending longitudinally thereof, which conduit has an open discharge end and is formed operatively to provide on its under side a slot-like opening extending longitudinally thereof for at least approximately the horizontal length of said lateral wall for receiving said hot gaseous mixture; a fan or the like for blowing a blast of atmospheric air through said conduit longitudinally thereof over said longitudinally extending slot-like opening toward the open discharge end of said conduit for discharge therefrom through said open end for causing said blast to draw, by ejector action, said hot gaseous mixture through said slot-like opening into said conduit and concomitantly causing ascent of such mixture as the latter is formed at the exterior of said lateral wall; and baffles extending from adjacent the opposite edges, respectively, of said slot-like opening outwardly from said edges over said lateral wall of said combustion chamber in superimposed spaced relation to the upper portion of said wall for trapping and directing the ascending hot gaseous mixture into said slot-like opening and, in conjunction with said conduit, shielding the space above said conduit from upwardly directed heat radiated from said wall.

2,669,444

EXTERNALLY HEATED, REVOLVING FURNACE

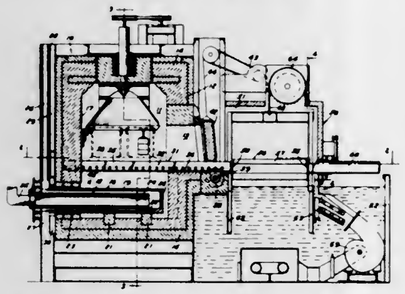
Pierre Beetz, Liege, Belgium, assignor to Industrial and Financial Association Inc., Panama, Republic of Panama

Application January 28, 1952, Serial No. 268,619
Claims priority, application France January 30, 1951
4 Claims. (Cl. 263—34)



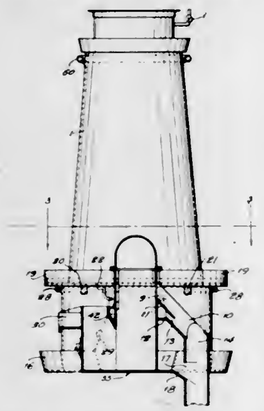
1. An externally heated revolving furnace including a heated enclosure, a drum of refractory material in said heated enclosure and an outer metal casing supporting said drum, said casing comprising end discs arranged outside said heated enclosure and mutually spaced parallel individual bars extending through said heated enclosure in close contact with and supporting the periphery of said drum and being connected at their ends to said end discs, said drum being located completely in said casing, said end discs being provided with means for rotatably supporting the assembly of said casing and said drum, at least one end of said drum being axially spaced from the corresponding end disc, an additional disc movably arranged within said casing in contact with said end of the drum and axially spaced from the corresponding end disc, and pressure springs supported by said end disc for pressing the additional disc against the said end of the drum.

2,669,445
HEAT-TREATING APPARATUS
Walter H. Holcroft, Detroit, Mich., assignor to Holcroft & Company, Detroit, Mich., a corporation of Michigan
Application February 13, 1950, Serial No. 143,909
5 Claims. (Cl. 266—4)



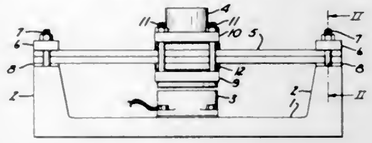
1. Work handling mechanism comprising a carriage supported for generally horizontal movement between first and second positions, means for moving said carriage between said positions, an operating station at the first position of said carriage, a platform positioned at the second position of said carriage and having a work supporting surface spaced above said carriage, said platform and carriage being formed to permit movement of said carriage to its second position beneath the work supporting surface of said platform and enabling downward movement of said platform relative to said carriage in the second position of the latter, means for lowering said platform to transfer work from said platform to said carriage and for raising said platform to transfer work from said carriage to said platform, and a second operating station supported beneath the second position of said carriage in a position adjacent said platform when the latter is thus lowered.

2,669,446
CUPOLA FURNACE
Robert Doat, Liege, Belgium
Application May 15, 1952, Serial No. 287,895
Claims priority, application Belgium July 17, 1951
12 Claims. (Cl. 266—30)



1. A cupola furnace, comprising, in combination, an elongated hollow body having a vertical central axis, a closed top and a bottom wall toward which molten metal and slag move, said hollow body having an inner refractory lining and having a side wall portion adjacent said bottom wall thereof formed with a pair of openings, one of which passes through said side wall portion substantially at the level of said bottom wall to lead molten metal from said hollow body and the other of which passes through said side wall portion above said one opening to lead slag from said hollow body; a receiving chamber connected to said hollow body at said side wall portion thereof and communicating with said openings, said receiving chamber having a slag discharge spout and a metal discharge spout located below said slag discharge spout and said receiving chamber having a cross-sectional area in a horizontal plane which is substantially smaller than the cross-sectional area of the interior of said hollow body in the same horizontal plane, said receiving chamber also having a dividing wall extending beneath said one opening and being located between said spouts to separate molten metal and slag from each other; gas outlet valve means located adjacent said top of said hollow body to maintain therein a slag bath of constant depth; and cooling means associated with the outer surface of said hollow body for cooling the same over substantially the entire outer surface thereof.

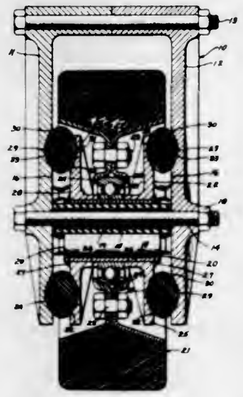
2,669,447
APPARATUS FOR TRANSMITTING INTENSE VIBRATIONS FOR PERFORMING WORK
John C. O'Connor, Ann Arbor, Mich., assignor to The O'Connor Patent Company, Ann Arbor, Mich., a corporation of Michigan
Application January 31, 1950, Serial No. 141,438
1 Claim. (Cl. 267—1)



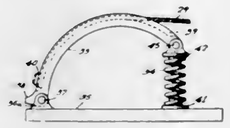
In apparatus for transmitting intense vibrations for performing work, in combination, a thick beam of flexible aluminum alloy, said beam having flat surfaces, pairs of clamps of steel, said clamps having flat surfaces, and means for clamping said beam between the clamps of each pair with the flat surfaces of the clamps engaging the flat surfaces of the beam, said clamps being adapted for connection to vibration generating means and vibration receiving means.

2,669,448
RESILIENT WHEEL MOUNTING
Walton W. Cushman, Webb City, Mo., assignor to the United States of America as represented by the Secretary of the Army
Application November 16, 1951, Serial No. 256,807
3 Claims. (Cl. 267—63)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A resilient wheel mounting comprising a relatively stationary supporting member having spaced opposed sides, each side having a group of circumferentially spaced recesses formed therein in opposition to the recesses of the other side, a non-rotatable axle extending between the sides and connecting the sides and arranged centrally of the groups of circumferentially spaced recesses, a relatively large non-rotatable sleeve surrounding the axle between the sides and adapted to shift radially in all directions a substantial distance relative to the axle and having its ends spaced from the sides, a pair of non-rotatable bearing plates carried by the relatively large sleeve in opposed spaced relation to the sides and extending radially beyond the periphery of the sleeve for a substantial distance, each bearing plate having a group of circumferentially spaced recesses formed therein in opposition to the recesses of the sides, a plurality of resilient compressible elements disposed within the recesses of the bearing plates and sides and forming a resilient connection between the bearing plates and sides, a ball bearing mounted upon the sleeve between the non-rotatable bearing plates and engaging the latter to maintain them spaced apart axially upon the sleeve, and a wheel journaled upon the ball bearing for free rotation and disposed between the sides and provided in its opposite sides with recesses receiving the non-rotatable bearing plates and resilient compressible elements, the periphery of the wheel being disposed a substantial distance radially beyond the peripheries of the non-rotatable bearing plates and resilient compressible elements.

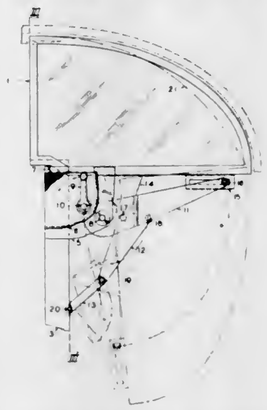


2,669,449
SHOCK ABSORBER
Joseph E. Gross, Swissvale, Pa.
Application March 27, 1951, Serial No. 217,860
5 Claims. (Cl. 267—70)



1. In a shock absorber for a power cable, a base member, a curved arm having a cable track on its convex surface, a hinge means hingedly connecting one end of the arm to the base member with its concave face toward the base member, a cable fastening device mounted on the arm at a point adjacent to the hinged end of the arm, and a coiled spring disposed between the free end of the arm and the base member for resiliently opposing movement of the free end of the arm toward the base member when a load is applied to the cable.

2,669,450
WINDOW REGULATOR FOR THE REAR QUARTER WINDOW OF AUTOMOBILES
Clarence L. Pfeiffer, Ypsilanti, Mich.
Application November 28, 1950, Serial No. 197,928
3 Claims. (Cl. 268—104)

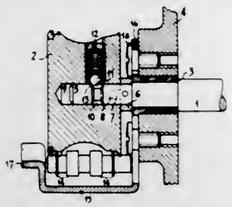


1. A regulator for the rear quarter window of a convertible or a convertible type automobile body for the movement of the window from the up or closed position where the bottom rail of the frame is horizontal to the down or open position where said bottom rail is substantially vertical, said bottom rail having affixed below and at its rear end a bracket with an elongated slot, a second downwardly projecting bracket affixed to an intermediate portion of the bottom rail, an arm positioned below the bottom rail and extending lengthwise thereof, one end of said arm carrying a rotatable pin slidably engaged in said slot, means adapted to be mounted on the body providing a fixed pivot for the other end of the arm, a first link having two pivots adjacent one end spaced from each other along a line extending transversely of the link and a third pivot adjacent the other end of the link, one of the two pivots adjacent one end of the link connecting the link with the depending end of the second bracket, the other pivot connecting the link with an intermediate portion of the arm, a second link connected at one end to the pivot at the other end of the first link, means pivotally connecting the other end of the second link to the body, the arm being provided with gear teeth arranged in an arc about the center of the fixed pivot thereof, a pinion meshing with said teeth, means for mounting said pinion, and means connected to the pinion by which the pinion may be rotated.

2,669,451
DEVICE FOR DRIVING FILMS IN CINEMATOGRAPHIC PROJECTORS
Walter Gugger, Yverdon, Switzerland, assignor to Paillard S. A., a corporation of Switzerland
Application June 21, 1950, Serial No. 169,395
Claims priority, application Switzerland July 15, 1949
6 Claims. (Cl. 271—2.3)

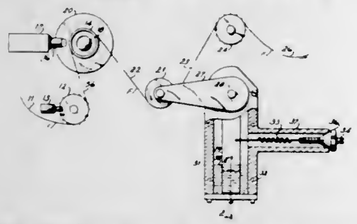
1. A device for driving a film in a cinematographic projector, comprising, a stationary wall, a spindle journaled in the wall, a sprocket wheel mounted on the spindle, means coupling the sprocket wheel to the spindle for rotation therewith, guide rollers guiding the film toward the sprocket wheel, a support supporting the rollers

adjacent the sprocket wheel and including a slotted part extending at right angles to the rollers, said slotted part having slots each embodying a wide and a narrow portion, retaining elements fixed in the wall and each including a head spaced from the wall and on motion of the support part toward the wall passing through a wide



slot portion and being larger than a narrower slot portion, the length of each slot requiring a motion of the support part parallel to the wall to a position registering the head of each retaining element with its wide slot portion of greater distance than that of the possible motion of the rollers to engage the sprocket wheel.

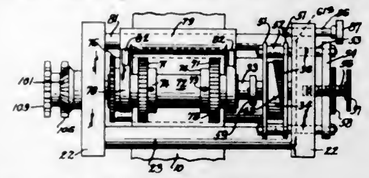
2,669,452
SOUND STABILIZATION SYSTEM
Reginald A. White, Deepwood, Chappaqua, N. Y., assignor to General Precision Laboratory, Incorporated, a corporation of New York
Application December 29, 1951, Serial No. 264,079
6 Claims. (Cl. 271—2.3)



1. The combination in a film propelling apparatus having a film driven sound drum and a sprocket means for driving a film strip, of a mechanical filter means engaging said film between said drum and said sprocket means, said mechanical filter means comprising an arm, a film engaging roller mounted thereon, a member connected to said arm and constrained for rotational movement therewith, said member having a portion thereof extending into a chamber partially filled with viscous fluid and immersed therein, said chamber being provided with a rib extending inwardly of said chamber from the base thereof, the portion of said member immersed in said fluid being provided with a groove cooperating with said rib, the side surfaces of said rib being in close proximity to the interior surfaces of said groove to provide a high intersurface friction therebetween through the medium of said viscous fluid, and resilient means for maintaining said roller in engagement with said film.

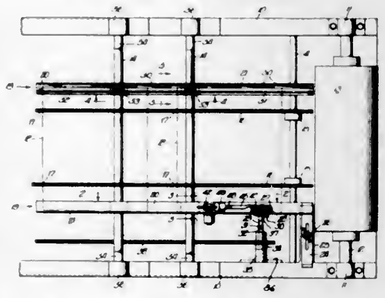
2,669,453
WEB FEED MECHANISM FOR ADJUSTABLE ROTARY IMPRINTERS
Dimitri L. Gorbatenko, San Francisco, Calif.
Application March 10, 1951, Serial No. 214,879
8 Claims. (Cl. 271—2.4)

1. In an adjustable, intermittent web feed mechanism, a shaft arranged to be rotated continuously, a web feed cylinder, a pressure roll biasing said web into contact with said web feed cylinder, said web feed cylinder and pressure roll cooperating, upon rotation of said web feed cylinder, to feed said web, first means rotatable with said shaft, second means intermittently engageable by said first means and rotatable with said cylinder, one of said means being slidable axially with respect to its axis of rotation and having a continuous zone of engagement and a zone of disengagement, said zone of engagement



and said zone of disengagement being discrete, the boundary between which being a continuous line oblique to the axis of rotation of said means, said zone of engagement being completely radially elevated relative to said zone of disengagement to rotatably engage the other of said first two means, said zone of engagement being disposed and arranged so that axial movement of said slidable means adjusts the angular travel of said cylinder per revolution of said shaft, and third means controlling axial movement of said slidable means.

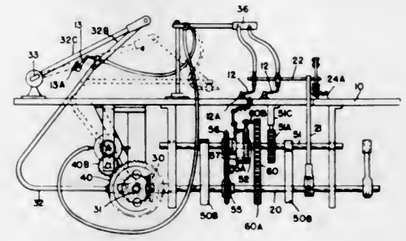
2,669,454
DEVICE FOR ALIGNING FEED OF PAPER SHEETS IN PRINTING MACHINES
George Babicz, Chicago, Ill.
Application July 5, 1951, Serial No. 235,241
3 Claims. (Cl. 271—49)



1. In a printing machine including printing rollers, means for positively advancing paper sheets directly toward the printing rollers in a direction at right angles to the axes of the printing rollers and a device for moving the advancing sheets into a desired position along the lengths of the printing rollers, said device comprising a guide including a horizontal plate and a vertical guard extending in a direction at right angles to the axes of the printing rollers, a first wheel, said plate being provided with a slot, said wheel partially entering said slot from below said plate, an arm pivotally supported by its rear end above said plate, a second wheel journalled at the front end of said arm, said second wheel being normally in contact with said first wheel, the contact point between said wheels being substantially on a plane coincidental with the plane of the upper face of said plate, said wheels being in an oblique relation with said guard, portions of said wheels nearest to the printing rollers being in

the nearer proximity of said guard than the remaining portions of said wheels, means for imparting a rotary movement to one of said wheels, paper sheets fed toward the printing rollers being received between said wheels for bringing one side edge of the paper sheets in contact with said guard prior to the reception of the paper sheets by the printing rollers, a rod secured to said arm at a point intermediate the front and rear ends thereof, said rod including a threaded portion extending substantially parallel to said arm from a point forwardly of said pivot point to a point rearwardly of said pivot point, and a weight in threaded engagement with said threaded portion for movement axially thereof whereby said weight may be shifted upon said rod forwardly or rearwardly of said pivot point for increasing or decreasing the contactual pressure of said second named wheel upon said first named wheel.

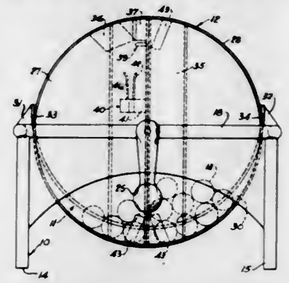
2,669,455
SHEET DELIVERING APPARATUS
Albert J. Hory, Detroit, Mich.
Application June 19, 1948, Serial No. 34,080
1 Claim. (Cl. 271—74)



In paper handling means for engraving presses, an oscillatable arm having suspended therefrom at its free end one end of a link, a laterally extending rod fixed to said link, a second oscillatable arm arranged below and hinged to the other end of said link, means for oscillating said second arm, suction cups carried by said rod and in fixed relation thereto, said arms and link being so arranged that, at one end of the oscillation of the second arm, the first arm and link are in extended relation and at the other end of said oscillation the link is approximately parallel to and below the first arm, and means for producing a partial vacuum in said cups during said extended relation and for breaking said vacuum at the other end of said oscillation.

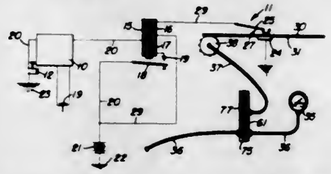
2,669,456
GAME BALL MIXER AND DISPENSER
John J. Hickey, Belleville, N. J.
Application January 24, 1951, Serial No. 207,616
6 Claims. (Cl. 273—144)

4. A mixing, dealing, and displaying device employing balls with card game insignia, the device comprising a shaft, rotatable mounting means for said shaft, a drum keyed to said shaft, said drum comprising at least one end member, a rim disposed around the periphery of said end member and perpendicular to the plane thereof, means for retaining the balls in the drum, a weighted handle member removably disposed on said shaft, at least one blade of triangular cross section disposed in said drum, said blade having one edge outwardly directed from the end member and substantially aligned with said handle member, ball allocating display means coacting with said blade for said drum, said means being radially displaced from the axis of rotation of



said drum and substantially opposite said handle member.

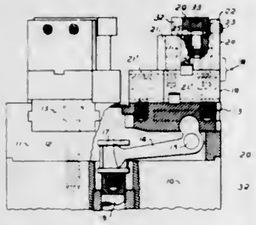
2,669,457
SYNCHRONIZED VEHICLE MOTION CONTROLLED RECORD REPRODUCING TALKING UNIT
George R. Culbertson, Norfolk, Va.
Application April 7, 1950, Serial No. 154,483
5 Claims. (Cl. 274—1)



1. An automatic control system for delivering spoken communications on a vehicle, related to a place reached by the vehicle after covering a distance from a freely selectable starting point, comprising an insulating synchronizing ribbon moved by the vehicle with a speed proportional to that of the vehicle and provided with synchronizing perforations placed on the ribbon at selected points corresponding to places reached by the vehicle, switch contacts on both sides of said ribbon and separated by the same, coming into operative momentary contact relation through said perforations when the latter pass the switch contacts, a self controlling independently operated record player with a reelable recording element carrying the messages to be delivered at certain places reached by the vehicle, having an electric drive motor, drawing the reelable record element through the record player and a sound reproducer and an energizing circuit for the drive motor and sound reproducer, controlled by the reelable recording element, opercontrol means being a self locking control relay with control contacts and with two windings, one of said windings being an impulse winding, the other winding being a locking winding, included in the said energizing circuit of the electric drive motor and sound reproducing device, the relay contacts controlling said energizing circuit and keeping the same closed after the initial closing of the relay by the energization of the impulse winding, the second control means of the energizing circuit being a stop switch, controlled by two control means, one of the ating means for said stop switch, including means on said reelable recording element operating said operating means at the end of each communication associated with the particular place located a distance from a starting point reached by the vehicle, an impulse circuit including the impulse winding of the relay and the switch

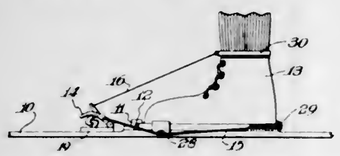
contacts on both sides of the synchronizing ribbon, said contacts, upon momentary closure, sending the impulse energizing the aforesaid control relay, coupling means between the vehicle and the synchronizing ribbon, operable by the driver of the vehicle, and adjusting means for the said ribbon for adjusting the position of the perforations relatively to the switch contacts cooperating with the same, each communication of the record player being thus started at the desired place reached by the vehicle, but being delivered independently of the motion or speed of the vehicle.

2,669,458
CHUCK
Ernest H. Johnson, Bridgeport, Conn., assignor to The Bullard Company, a corporation of Connecticut
Application April 19, 1952, Serial No. 283,190
7 Claims. (Cl. 279—123)



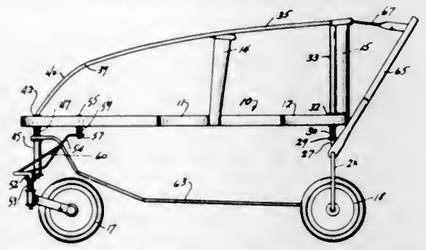
1. A chuck comprising in combination, a base; a lower jaw mounted on said base, and adapted to be moved along a line substantially radiating from the center of said chuck; a top-jaw mounted on, and fixed to said lower jaw; a top-jaw insert mounted on said top-jaw for limited pivotal, as well as radial movement relatively to said lower jaw; and means for locking said insert to said top-jaw in a selected pivotal and radially-adjustable position.

2,669,459
SAFETY SKI BINDING
Myron T. Fleming, Wyncote, Pa.
Application September 2, 1950, Serial No. 182,997
8 Claims. (Cl. 280—11.35)



1. A safety ski binding comprising a ski, a toe plate mounted thereon and having a recessed portion to receive the toe of a ski boot, a trigger release clamp mounted on the surface of the ski outside the area normally covered by a ski boot, a spring-tensioned holding device extending from one end of the said trigger release clamp around the heel of the boot, and means connected to said trigger release clamp and extending in the vicinity of the skier's ankle for transmitting motion from the skier's ankle to the trigger release clamp when the angle formed between the skier's leg and the front surface of the ski is increased thus actuating the trigger to release the ski, said means being mounted entirely above the surface of the ski and outside the area thereof normally covered by a ski boot.

2,669,460
CHILD'S STROLLER
Rudolph Wallner, Sheboygan, Wis.
Application June 17, 1948, Serial No. 33,609
7 Claims. (Cl. 280—47.38)



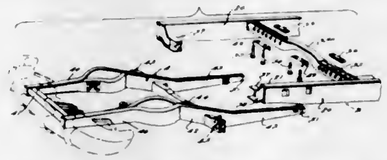
1. In a child's stroller of the character described, a base adapted to form a seat for the child, a wheel pivotally mounted from the front end of said base, a rear axle having the lower portion extending horizontally through a pair of rear wheels, said axle being bent upwardly and inwardly over the rear wheels and extending vertically through the base and a back rest for said base supported by the upwardly projecting end of the axle.

2,669,461
FRAME CONSTRUCTION FOR VEHICLE RUNNING GEARS
Russell R. Raney, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application September 29, 1950, Serial No. 187,469
6 Claims. (Cl. 280—103)



6. In a vehicle running gear, a U-shaped transverse front axle beam comprising a generally vertical front wall and rearwardly extending top and bottom flanges, front wheels steerably connected to said front axle beam, a pair of laterally spaced U-section sill members each including a substantially vertical outboard wall and inboardly extending top and bottom webs, said sill members having their forward ends positioned between said flanges of the front axle beam, means only securing said top and bottom flanges of the front axle beam respectively, to the top and bottom webs of said sill members whereby accommodating unrestricted torsional flexing of the forward ends of said vertical walls of the sill members, an L-shaped transverse rear axle beam extending across the rear ends of said sill members and having a rear depending web spaced rearwardly of the rear ends of said sill members and also having a top web overlying the rear terminals of said sill members and secured to the top webs thereof only, whereby accommodating unrestrictive torsional flexing of the rear ends of said vertical walls of the sill members and enhancing the torsional flexibility of the rear axle beam intermediate the sill members, said rear axle beam having end portions extending outwardly of said sill members, a truss element disposed within each end portion of said rear axle beam and at its inboard edge underlying and connected to the bottom web of the adjacent sill member and at its rear edge connected against the forward side of the rear web of the related end portion along the lower margin thereof, and a rear wheel supporting member disposed within each end portion and connected to the rear and top webs thereof and to the related truss element, said U-section front axle beam providing a relatively rigid structure whereby maintaining the front wheels in steerable alinement as the vehicle traverses uneven terrain, said truss elements rigidifying said end portions of the rear axle beam with respective sill members whereby effecting torsional loading of the latter during relative vertical movements of the rear wheels of the vehicle.

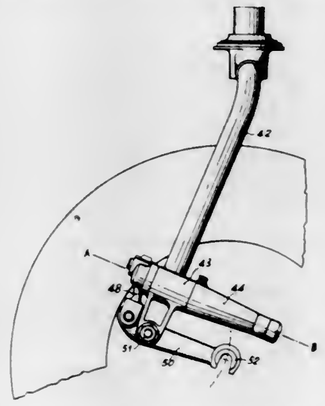
2,669,462
MOTOR VEHICLE FRAME STRUCTURE
Millard H. Toncray and Dana K. Badertscher, Grosse Pointe Park, Mich., assignors to Hudson Motor Car Company, Detroit, Mich., a corporation of Michigan
Application April 7, 1948, Serial No. 19,616
10 Claims. (Cl. 280—106)



2. In a motor vehicle, a unitary main chassis frame formed from two separate front and rear sections attached together, the front section comprising longitudinal frame members and a cross member connecting the same together forwardly of the rear ends thereof, the rear section comprising longitudinal frame members and a cross member connecting the same together rearwardly of the front ends thereof, the longitudinal frame members of one section lying between and at a lower level than the longitudinal frame members of the other section, means for attaching said front ends of the rear section frame members to said first named cross member, and means for attaching the rear ends of the front section frame members to the underside of the rear section cross member, one of said means comprising box-like extensions on the cross member fitting into transverse channel extensions on the frame members, said channel extensions opening longitudinally to receive the box-like extensions therein upon relative longitudinal movement of said front and rear sections.

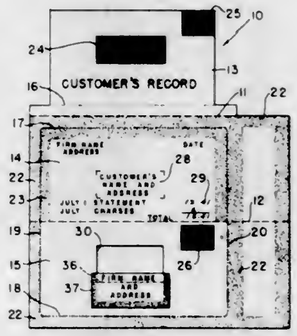
2,669,463
RESILIENT SUSPENSION SYSTEM FOR MOTORCYCLE WHEELS
Pier Luigi Torre, Milan, Italy
Application June 8, 1951, Serial No. 230,603
Claims priority, application Italy June 14, 1950
2 Claims. (Cl. 280—277)

1. A resilient suspension system for the front wheel of a motorcycle, comprising, in combination with a wheel supporting fork, a housing placed on the side of the lower portion of each of the fork arms, and lying in a plane transverse to the axis of said arms, a torsion bar positioned inside each housing and splined at one end to the rear end of said housing, a lever connected fast at one end to the other end of each torsion bar, a link provided with ball-and-socket joints and connected to the other end of each lever, two rocking levers positioned in a plane perpendicular to those of the aforesaid levers, said



rocking levers being pivoted on the ends of the fork arms and connected at one end to said links, and the other ends of said rocking levers being provided with means for receiving the wheel spindle.

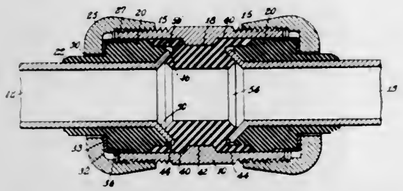
2,669,464
MAILING PIECE
Kenneth S. Lay and Bernadine F. Lay, St. Louis, Mo.
Application May 6, 1950, Serial No. 160,436
4 Claims. (Cl. 282—25)



1. A combined message sheet, envelope and return envelope, comprising a sheet of foldable material, said sheet comprising integrally three substantially rectangular portions extending side by side one above the other, the central and lower of said portions comprising adhesive means by which they may be constituted the rear and front portions respectively of an envelope, said lower portion being formed with a window opening and further comprising a flap foldable from a closed position obscuring said opening to an open position permitting a view through said opening, the upper portion of said sheet when folded down between the said rear and front portions of said envelope blocking the view of said rear portion through said window opening, said upper portion further being provided with transfer material for transferring impressions to said rear portion, all of said portions comprising lines of perforations parallel to edges of said portions, the lines of perforations of the three portions being

in register in the folded condition of the sheet, said perforations as viewed from the outside of said envelope constituting a substantially continuous single line extending in spaced relation to and parallel to three outer boundaries of said envelope and beginning and ending at the fold line between said front and rear portions of said envelope, said fold line forming the fourth outer boundary of said envelope, so that upon opening said envelope by tearing along said line of perforations, the result is an open sheet comprising said front and rear portions and a separate sheet constituted by said upper portion, said front and back portions further comprising additional adhesive means located adjacent and inside said lines of perforations for constituting said front and back portions into a return envelope.

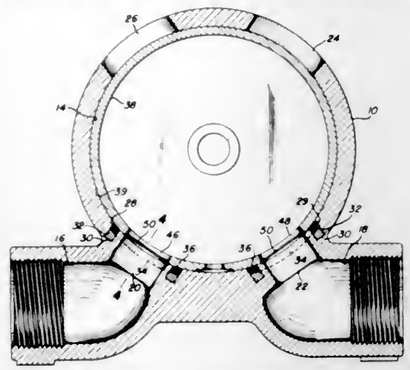
2,669,465
INSULATING COUPLING
Frederick T. Newell, Bradford, Pa., assignor to Dresser Industries, Inc., Dallas, Tex., a corporation of Pennsylvania
Application August 5, 1950, Serial No. 177,820
8 Claims. (Cl. 285—16)



1. An insulating lock coupling for unthreaded tubing and the like comprising, in combination, a tubular sleeve having ends defining tube apertures, a central annular rib extending inwardly from the walls of said sleeve, the walls of said sleeve between said rib and said tube apertures being substantially cylindrical, an annular insulating member positioned in said sleeve and enclosing said rib, said member being formed with an annular recess for reception of said rib and with a recess for receiving and enclosing the end of said tubing, resilient gasket means in the ends of said sleeve, said gasket means being independent of said insulating member, and means movable relatively to said gasket means for compressing said gasket means.

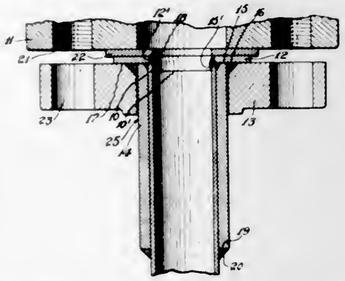
2,669,466
FLUID TIGHT PASSAGE JOINT SEAL
Floris Cloete, Wilkinsburg, Pa., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 10, 1948, Serial No. 7,492
9 Claims. (Cl. 285—105)

1. In an assembly wherein two members having respective inner and outer peripheral surfaces of substantially cylindrical curvature are nested one within the other in a relatively fixed relation and a generally radial passage is provided extending through both members, means for effecting a fluid tight seal between said passage and the space between said relatively fixed peripheral surfaces comprising a continuous groove of non-uniform depth cut into one of said peripheral surfaces spaced from and surrounding the associated passage opening, an annular hard insert element seated in said groove, said element having a substantially cylindrical upper face below and parallel to said one peripheral surface so as to provide a continuous annular recess of uniform depth therein, and a continuous resilient annulus of a diameter substantially equal to the width of said recess compressed in



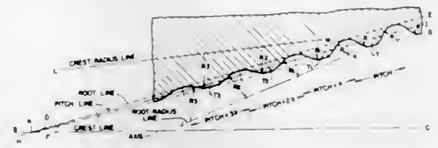
said recess and against the peripheral surface of said other member surrounding the associated passage opening in that surface.

2,669,467
WELDED TUBING END CONSTRUCTION
Edwin C. Wolferz, Nutley, N. J.
Application April 4, 1950, Serial No. 153,860
1 Claim. (Cl. 285—138)



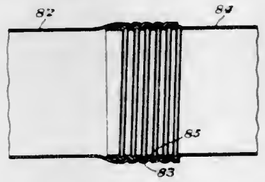
A tube end construction for connection to an open member to pass material flowing through the tube into the open member, comprising a tube of non-corrosive metal having an opening therethrough for registry with the first mentioned open member, a flat ring of non-corrosive metal of an outer diameter substantially greater than that of the tube end, positioned against the end of the tube in butt engagement therewith and provided with a medial opening for registry with the tube end opening, the inner, adjacent portion of the tube and ring being welded together, a weld at adjacent external portions of the tube and ring uniting the same to define a substantially integral, continuous wall of L-shaped construction, and a strengthening band positioned on the tube in encompassing engagement with the end portion thereof and in abutment with said ring within said L-shaped wall, completely shielded by said wall from the opening of the ring and tube, the end of the band being partly recessed to receive the weld at the juncture of the external portions of the tube and ring within the recess, said band being externally welded to the face of the ring, and a disc having a medial opening therethrough slightly greater than the outer diameter of the reenforcing band, so that said disc may be slidably disposed on said band and against the ring in butt engagement with the ring, to enable the tube end construction to be secured to said open member.

2,669,468
THREADED JOINT AND ELEMENT THEREOF HAVING IMPROVED THREAD FORM
John W. Clerke, Little Falls, N. J.
Application December 5, 1950, Serial No. 199,288
12 Claims. (Cl. 285—145)



1. Threadedly interengageable tubular male and female members, said male member being thin-walled and resilient as compared to said female member and having substantially constant pitch, sinuously configured threads of substantially uniform diameter formed on an end portion thereof, said female member having similar threads formed therein, successive threads in the female member increasing in pitch and decreasing in depth, at least the roots of the threads in the female member being outwardly flared and elements of the surface of revolution of a right circular cone.

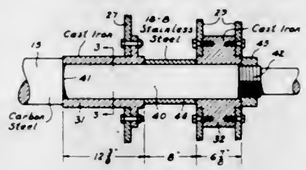
2,669,469
METAL PIPE HAVING A ROLLED THREAD
Harry J. Finch, Oil City, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Original application April 28, 1949, Serial No. 90,071. Divided and this application October 12, 1950, Serial No. 189,828
2 Claims. (Cl. 285—158)



1. Metal pipe having at one surface thereof a rolled thread whose side walls are substantially parallel to each other and having a substantially flat crest and throat, the opposite surface of the pipe having a helical depression whose dimension axially of the pipe at its bottom is not over about half the dimension of the crest of the thread axially of the pipe, the depression being disposed radially opposite the center of the thread crest, and a helical projection opposite the thread throat whose dimension axially of the pipe is at least one-third greater than the dimension axially of the pipe of the thread throat and merging by a smooth curve into the depression, the pipe at such opposite surface being entirely free from sharp corners.

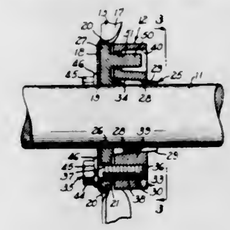
2,669,470
ROTOR ASSEMBLY APPARATUS
Wayne C. Rogers, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application December 18, 1950, Serial No. 201,305
4 Claims. (Cl. 287—52)

2. A rotor assembly for a pulverizer or the like adapted to operate at elevated temperatures comprising a rotatable carbon steel shaft having a shoulder, a clamping device mounted on the shaft and spaced axially from the shoulder, and a group of elements mounted on the shaft between the shoulder and the device and urged axially against the shoulder by the device, the group in-



cluding a cast iron rotor hub and a stainless steel sleeve the dimension and materials of the said elements being such that the increase in length of the group at an elevated temperature is substantially the same as the increase in length of the shaft between the shoulder and clamping element.

2,669,471
HUB TO SHAFT CONNECTION
Ben B. Breslow, Los Angeles, Calif., assignor to Utility Appliance Corp., Los Angeles, Calif., a corporation of California
Application June 1, 1948, Serial No. 30,333
3 Claims. (Cl. 287—52.06)



1. In combination: a rotatable member provided with a cup-shaped recess therein; a tapered, contractible hub member having a bore therein for the reception of a shaft, said tapered hub member being contractible into frictional engagement with the shaft; a clamping hub member having a tapered bore therein which is adapted to receive said tapered hub member, one of said hub members having a portion which is of substantially the same diameter as said recess and which is adapted to be telescoped into said recess to position said rotatable member relative to said hub members; and means connecting said rotatable member, said tapered hub member and said clamping hub member together for drawing said clamping hub member onto said tapered hub member to contract the latter into engagement with the shaft.

2,669,472
FLUID CONTROL SYSTEM FOR RAILROAD RAIL SANDING DEVICES
Lewis W. Harms, Denver, Colo.
Application August 20, 1951, Serial No. 242,687
4 Claims. (Cl. 291—5)

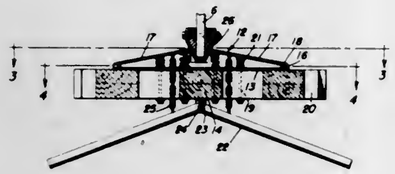
3. An articulated locomotive having a central power unit and a cab and control unit at each end, said locomotive being arranged for travel in either direction, the cab unit at the forward end being the control unit, the cab and the power unit having supporting wheels, sanding means for

the locomotive comprising a compressed air supply on each cab unit, an air operated sanding device for each pair of cab wheels, a sanding device for each pair of drive wheels on the power unit, an air pipe extending the entire length of the locomotive, each cab having a valve for controlling the flow of air from the air supply to the air pipe, the air pipe having a check valve at the rear of each cab unit which permits air to flow away from



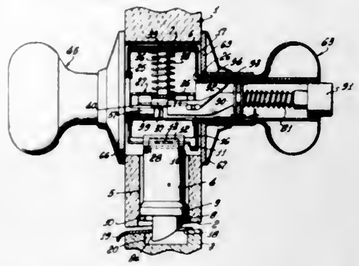
said unit but prevents the flow of air towards the cab unit whereby the operator in a cab unit cannot control the sanding mechanism in the other unit, the power unit having two sanding devices each positioned to deliver sand to that side of the wheels nearest its ends, and valve means in the air line, comprising a cylinder having an outlet port near each end, and a movable piston for automatically closing one port and opening the other to direct the air to the sanding device nearest the cab that serves as the operating unit, whereby the sanding device on the forward side of the wheels only will function.

2,669,473
GATE LATCH
Benjamin F. Trumbo, Uniontown, Ky.
Original application September 20, 1950, Serial No. 185,847, now Patent No. 2,650,443, dated September 1, 1953. Divided and this application November 7, 1951, Serial No. 255,185
5 Claims. (Cl. 292—45)



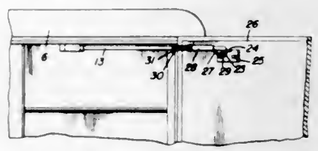
1. A latch for gates comprising a fixed latch member including an attaching plate adapted for attaching to a gate post at the side of the latter adjacent a gate, a pair of latch plates pivoted at one edge to the attaching plate for horizontal pivotal movement toward and away from the attaching plate, spring means holding the latch plates inclined from one face of the attaching plate and with the free edges of the latch plates opposed and spaced from each other to receive the free end of the gate therebetween, in a locking position, and manually operated means mounted on the gate post at its side remote from the gate and projecting transversely with respect to the gate opening in directions toward opposite sides of the gate for manipulation at either side of the gate and connected to the latch plates for moving a selected latch plate into a releasing position inwardly against the attaching plate and independently of the other of said latch plates.

2,669,474
DOOR LOCK
Theodore Kanell, West Haven, Conn., assignor, by mesne assignments, to Alexandria Kompanlez, Los Angeles, Calif.
Application December 24, 1949, Serial No. 134,963
11 Claims. (Cl. 292—169)



8. In a door latch mechanism: a housing; a headed post extending transversely of the housing and fixed to a wall of the housing; a latch grip slidable in said housing, said latch grip having a guiding aperture accommodating said post, the head of the post limiting movement of the latch grip in one direction; a spring surrounding the post and urging the latch grip against said head; a first rotatable spindle having a part engaging the latch grip for urging the latch grip away from the head; said part and the head of the post having aligned slots when the latch grip is in engagement with the head; a lock bolt for engaging said slots; and a second rotatable spindle extending in a direction opposite to the first spindle, said lock bolt being supported in said second spindle.

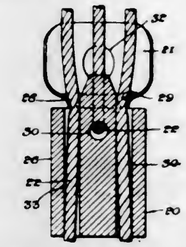
2,669,475
DOOR STOP AND HOLDER
Lewis F. Kinker, Burlington, Iowa, assignor of fifty per cent to John Tod, Burlington, Iowa
Application April 19, 1950, Serial No. 156,859
1 Claim. (Cl. 292—262)



A closure stop and holder comprising a rod having a notched end hook, a bracket adapted for attaching to a swingable closure and having an eye in which said end hook is pivoted, a spring-pressed sleeve on said rod having a spring finger thereon and slidable on said rod by said spring into position for engagement of said finger with said notch to lock the end hook in said eye, and means attachable to a stationary structure against which the closure is closed and pivotally and slidably supporting the other end of the rod.

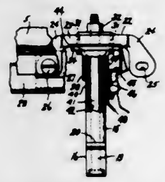
2,669,476
BAG SEAL
Winfred M. Brooks, West Orange, N. J., assignor to E. J. Brooks Company, Newark, N. J., a corporation of New Jersey
Application July 3, 1951, Serial No. 235,077
3 Claims. (Cl. 292—308)

2. In a sealing device in which strand-material is tightened around the mouth of a bag of flexible material after being threaded through perforations in a sealing-element and through a guard-member that is interposed between said sealing-element and said bag: a sealing-element composed of compressible material perforated to receive strand-material; a guard-member composed of non-compressible and rigid sheet-material having an opening to receive strand-material



threaded through the perforations in said sealing-element; a dependent flange of non-compressible and rigid sheet-material carried by said guard-member adjacent the opening thereof, said flange extending across the perforations in said sealing-element; and a portion, carried by said sealing-element, that extends into the opening in said guard-member and clamps the strand-material against the interior wall of said flange.

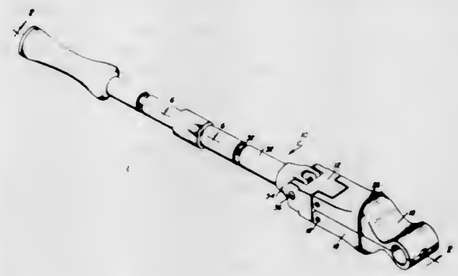
2,669,477
ADJUSTABLE STRIKE
William R. Jewell, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application March 14, 1952, Serial No. 276,582
7 Claims. (Cl. 292—341.18)



1. In a keeper structure, a strike comprising a threaded portion, and a longitudinal bore, a longitudinally extending groove, a base member having a threaded bore for receiving said threaded portion of said strike to afford longitudinal adjustment of said strike, and a locking member stationary with respect to said base member and biased for being seated in said groove in said strike, a locking screw extending through said longitudinal bore of said strike, said base member, and said locking member to maintain adjusted positioning of said strike, said locking member cooperating with said groove to dispose said strike in a predetermined position with respect to said base member and positively to maintain said strike in said predetermined position, said locking member being removable from said groove for facilitating adjustment of said strike.

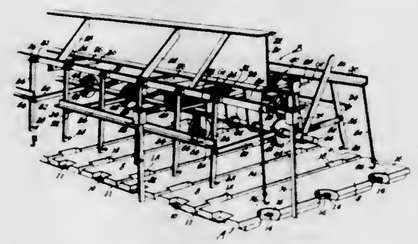
2,669,478
BULB CHANGING DEVICE
Benjamin T. Bowie, Greenville, S. C.
Application May 22, 1950, Serial No. 163,337
7 Claims. (Cl. 294—20)

1. A gripping device comprising a housing, jaw members pivotally attached to said housing, spring means urging said jaw members together, cam means engaging said jaw members and actuating the same, a first shaft slidably connected to said cam means and adapted to extend through said housing, a tubular rod pivotally attached to said housing, a flexible shaft extending into said housing, said flexible shaft being secured to said first shaft, said flexible shaft being partially encompassed by said rod, starter fuse engaging means on the free end of said first shaft, said starter fuse engaging means constituting a stop to prevent withdrawal in one direction of said first shaft from said cam means, said flexible



shaft being secured to a tubular sleeve, said tubular sleeve having a plurality of spaced slots therein, a handle provided with a tubular shaft in which said tubular sleeve is slidably disposed, a latch rod secured to said handle, said latch rod selectively engaging said sleeve within one of said slots for rotating said tubular sleeve to actuate said cam means and to slide said tubular sleeve toward said housing to urge said starter fuse engaging means outward of said jaw members.

2,669,479
MECHANISM FOR MANIPULATING FLEXIBLE REVETMENT MATS
Frank I. Louckes, Memphis, Tenn.
Application May 2, 1950, Serial No. 159,562
5 Claims. (Cl. 294—117)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Mechanism for lifting and stacking cast squares of flexible revetment mats composed of concrete slabs flexibly interconnected by flexible reinforcing means and having openings formed therein in registry with the reinforcing means, the said mechanism comprising a frame adapted to be positioned over the shape to be manipulated, a plurality of oppositely disposed spaced parallel lifting arms vertically depending from the frame and pivotally suspended therefrom adjacent to upper ends of the arms, the said arms being adapted to enter the openings in the square and terminating in lifting hooks adapted to engage the flexible reinforcing means exposed by the openings in the square for lifting and carrying

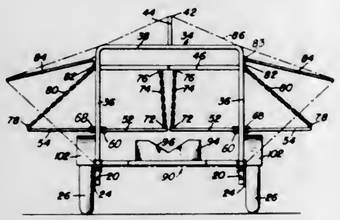
the square to a stacking station, an operating shaft extending longitudinally of the frame and carried by the frame intermediate the lifting arms, tie bars secured to selected members of the lifting arms for operatively tying together the lifting arms into a series of unitary groups thereof, operating discs on the shaft at each end of each group of the lifting arms, oppositely extending actuating lever arms interconnecting each of the discs with opposite terminal lifting arms of each of the groups thereof, the lever arms having inner ends secured to the operating discs in vertical diametrically opposite relation, operating levers for the said shaft at each end of the shaft for operating the shaft and the groups of lifting arms simultaneously, end and side guide bars depending from the frame for engaging corresponding ends and sides of the square with the lifting arms in vertical alignment with the openings, and guide rollers carried by the frame for engagement with the square when the frame is lowered with the lifting arms entering the openings in the square, the said guide rollers centering the frame on the square responsively to engagement of the lifting hooks on the said lifting arms with the flexible reinforcing means interconnecting the slabs of the revetment square.

2,669,480

CAMPING AND BOAT TRANSPORTING TRAILER

Elbert C. Messick and Ira W. Wright, Baytown, Tex., assignors of ten per cent to Richard A. Messick, Baytown, Tex.

Application October 31, 1950, Serial No. 193,075
2 Claims. (Cl. 296—23)



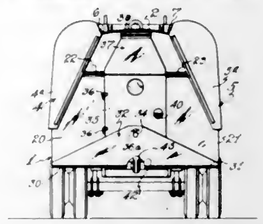
1. A boat trailer comprising a wheeled frame, forward and rear inverted U-shaped frame members mounted on and rising from the frame, each of said frame members including a pair of vertical portions and a horizontal portion joining the upper ends of said vertical portions, inner and outer pairs of bed frames extending between said frame members, means mounting said bed frames on the vertical portions of said frame members to permit vertical swinging movement of the bed frames, and means connecting the bed frames to the frame members for selectively supporting the bed frames horizontally and vertically, said means mounting said bed frames on said frame members including a pair of tubular beams terminately secured to the respective vertical portions of the corresponding forward and rear frame members and joining said frame members, a pair of undulated straps mounted on each beam, said straps each including a central channel and end channels, fasteners securing said central channels to the beams, said bed frames each having a tubular side rail mounted in said end channels for rotation, and means secured to said beams by said fasteners for retaining said side rails in said end channels.

2,669,481

TAIL GATE FOR ENCLOSING THE REAR END OF A TRAILER

Kibbey W. Couse, Newark, N. J., assignor to Reconstruction Finance Corporation, New York, N. Y., a corporation of the United States

Application May 6, 1952, Serial No. 286,378
5 Claims. (Cl. 296—106)



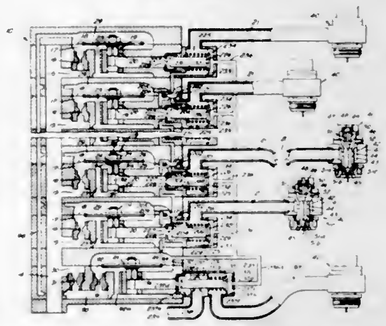
3. In combination with a trailer having a roof, a floor and suitable side sections connected to the roof and floor which roof, floor and side sections for the most part define the general outline of the trailer, and having a supporting member slidably mounted in the trailer and projected at times beyond the rear end of the trailer; a tail gate for enclosing the rear end of the trailer comprising a pair of end panels hinged along their upper edges to the trailer roof and extending therefrom when in a closed position to the trailer floor, the panels being separated by an opening which lies directly beneath the projecting portion of the supporting member with the panels in an open position, a door hingedly connected to one of the panels for closing said opening, a first flap hingedly connected to the lower edges of the panels foldable against the panels and against the door when closed, and another flap in the path of the supporting member hingedly connected to the roof which flap is folded upwardly when the hoist supporting member projects beyond the rear end of the trailer; means for securing said first flap in position against the panels and door; and other means for securing said first flap to the supporting member to hold the panels in an open position.

2,669,482

FLUID METERING SYSTEM

Harold Gold, East Cleveland, and David M. Straight, Cleveland, Ohio

Application July 30, 1948, Serial No. 41,643
13 Claims. (Cl. 299—58)
(Granted under Title 35, U. S. Code (1952), sec. 266)



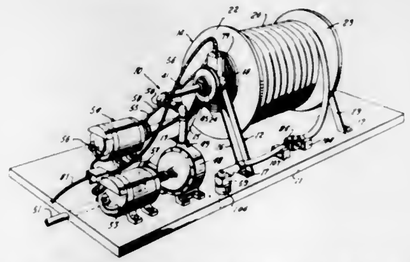
1. In apparatus of the character described, a plurality of separate fluid flow passages, means for maintaining a substantial fluid pressure in each of said passages, an orifice in each of said passages, a fluid fuse valve disposed downstream of the orifice in each respective passage and adapted for fluid checking seating at the downstream side of the orifice, means normally biasing the valve open, a diaphragm associated with each valve and normally acted upon by the dynamic fluid pressure in each of the passages, means for subjecting said diaphragms to static pressure in opposition to the dynamic pressure, the diaphragm in each instance being operable responsive to said static pressure to oppose said biasing means and close the associated valve when the dynamic pressure in the associated passage drops below a given value.

2,669,483

DEVICE FOR TRANSFERRING FLUIDS

Russell H. Fletcher, Dallas, Tex., assignor of one-fourth to E. C. Fletcher, one-fourth to Velma Anderson, and one-fourth to Bettye Alexander, Dallas, Tex.

Application July 11, 1951, Serial No. 236,123
5 Claims. (Cl. 299—78)



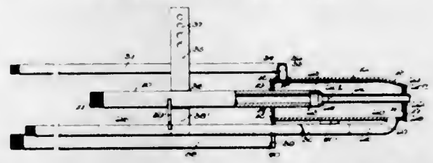
1. In combination: a rotatable reel; a motor for rotating said reel selectively in opposite directions; a pump having an outlet; an elongate flexible conduit having one end secured to the reel, said one end being connected to the outlet of said pump; a motor for driving said pump to move fluid selectively in either direction through said flexible conduit, said conduit having a plurality of flexible conductors embedded therein and extending longitudinally thereof; a nozzle at the other end of said flexible conduit; and a plurality of switches mounted on said flexible conduit adjacent said nozzle and connected to said conductors for selectively controlling the operation of said reel and pump motors, said conductors also being connected to said motors.

2,669,484

FUEL BURNER

John Lusky, Jr., Coatesville, Joseph C. Henry, Jr., Parkesburg, and Albert McFarland, Coatesville, Pa., assignors to Lukens Steel Company, Coatesville, Pa., a corporation of Pennsylvania

Application December 13, 1951, Serial No. 261,472
6 Claims. (Cl. 299—143)



1. A burner unit for an open hearth furnace, comprising a water jacket, a main fluid fuel supply pipe extending longitudinally of the water jacket and connected with the rear end of the water jacket, a tubular burner head arranged within the water jacket and having its rear end connected with the main fuel supply pipe and its forward end discharging beyond the forward end of the water jacket, a water supply pipe arranged exteriorly of the water jacket and leading into the water jacket adjacent to its forward end, and a water outlet pipe disposed exteriorly of the water jacket and leading into the water jacket adjacent to its rear end, said fluid fuel supply pipe, water supply pipe and water outlet pipe extending rearwardly of said water jacket with the water supply pipe and water outlet pipe extending on opposite sides of a vertical plane passing through said main fuel supply pipe, and means rigidly connecting said pipes.

2,669,485

ROLLER SKATE WHEEL

Ferris E. Newman, New Haven, Ind., William T. Pearl, Tulsa, Okla., and Edwin T. Rainier, Fort Wayne, Ind., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application August 12, 1952, Serial No. 303,958
4 Claims. (Cl. 301—5.3)



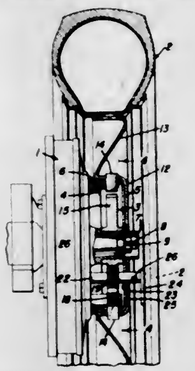
1. A roller skate wheel comprising an annular body having an axial opening for receiving a roller skate wheel bearing, said body being made of from 35 to 60 parts of a rubbery butadiene-acrylonitrile copolymer containing from 15 to 45% of acrylonitrile blended with correspondingly from 65 to 40 parts of a cashew nut shell oil modified phenol-formaldehyde resin, and containing a small amount of cryolite to prevent static electrical charges, said composition being cured to the insoluble, infusible state.

2,669,486

FASTENING MEANS FOR DEMOUNTABLE WHEELS

Carlos J. Fernandez, Marianao, Havana, Cuba

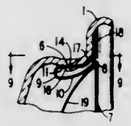
Application February 12, 1951, Serial No. 210,463
5 Claims. (Cl. 301—9)



1. Fastening means for securing an automobile wheel to a brake drum having a spindle, said means comprising a concentric annular front

casing on said drum having circumferential openings thereon, a dished annular hub on said wheel fitting over said casing and having circumferential openings therein registering with the first named openings, a circular series of elongated longitudinally arcuate fastening members in said casing for projection and retraction endwise into and out of the registering openings to fasten said hub to said casing and unfasten the same, means in said casing supporting and guiding said members for projecting and retracting movement endwise longitudinally in an arcuate path and including a wheel rotatable on said spindle in driving and supporting engagement with said members and operative in opposite directions to project and retract said members, manually operative means for rotating the second named wheel, and locking means for disabling said last named means at will.

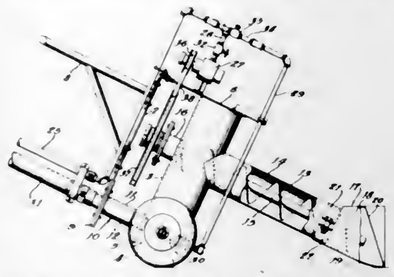
2,669,487
VEHICLE WHEEL COVER
Harry J. Horn, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application June 19, 1948, Serial No. 34,081
2 Claims. (Cl. 301—37)



2. In combination a vehicle wheel comprising a wheel body and a rim fixed thereto, a plurality of radial inward projections on the rim, a sheet metal cover for the outer face of the wheel provided with at least three integral resilient tabs projecting axially from the inner face of the cover, each tab consisting of integral inwardly and outwardly return bent portions, the outwardly return bent portion of each tab being positioned radially outwardly of the inwardly return bent portion, the outwardly return bent portion of each tab being bifurcated with the bight portion of the furcation positioned axially inwardly of the outer ends of the furcation, and the outer ends of the bifurcated return bent portion of each tab being turned radially outwardly whereby the bifurcated portion of each tab is adapted to straddle a radial inward projection on the wheel rim with the outer ends of the bifurcated tab portion contacting the outside face of the rim and the bight portion contacting the projection to thereby locate and lock the cover on the wheel.

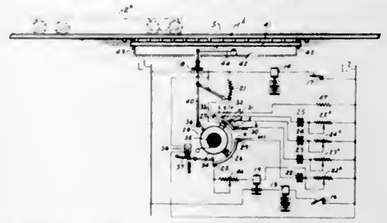
2,669,488
GRANULAR MATERIAL HANDLING DEVICE
Barton S. Snow, Chicago, Ill., assignor to T. W. Snow Construction Company, Inc., a corporation of Illinois
Application August 17, 1951, Serial No. 242,225
8 Claims. (Cl. 302—11)

1. A granular material handling device, for transporting material, comprising: a material receiving hopper having a material discharge port at its lower portion communicating with a discharge line; a material conveyor extending forwardly of and into the upper portion of the hopper for feeding material into the hopper; an air motor on the device driving said conveyor; a supply line of compressed air connected to said motor; an air jet at said discharge port directed into said discharge line; and an air line con-



necting said jet with the exhaust of said air motor.

2,669,489
RAILWAY CAR RETARDER
Clarence W. Kuhn, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application June 4, 1947, Serial No. 752,307
1 Claim. (Cl. 303—22)

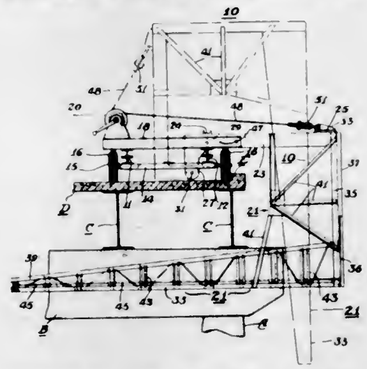


In a railway car retarder system, the combination with a retarder associated with a railway track for effecting retardation of a car traveling thereon by frictional engagement with the car wheels, said retarder having power adjusting means associated therewith for varying the retarding effect thereof, of a car weighing device associated with said track over which the cars travel prior to arrival thereof at said retarder, means rendered operative upon movement of a car onto said load weighing device for controlling said power adjusting means to effect setting of said retarder in a position for maximum retardation, a condenser, means for charging said condenser during travel of a car across the load weighing device to a value determined by the weight of the car and the time required for travel across said load weighing device, and means subjected to control by the charge in said condenser upon movement of the car beyond said load weighing device to control said power adjusting means for release of said retarder to a degree determined by the charge in said condenser.

2,669,490
TRAVELING SCAFFOLD FOR BRIDGES AND THE LIKE
Isaac S. Kaufman, Melrose Park, Pa., assignor to Kaufman Construction Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 6, 1952, Serial No. 270,213
3 Claims. (Cl. 304—9)

1. A traveling scaffold for a bridge or like elevated structure, including a carriage constructed and arranged to rest on and move along an upper surface of said bridge generally adjacent one edge thereof, said carriage having a

chassis and a plurality of wheels mounted on either side thereof, and a cantilever-type platform-member supported from said carriage, said platform-member having structural-means constructed and arranged to extend generally horizontally outwardly from said carriage beyond the adjacent edge of the bridge, and having structural-means constructed and arranged to extend downwardly from the outer end of the first-mentioned structural-means, and having structural-means constructed and arranged to extend generally horizontally inwardly from the lower end of the second-mentioned structural-means to a point substantially beyond the inner side of the carriage, said last-mentioned structural-means including a working platform disposed relatively adjacent the underside of the aforesaid upper surface and providing access to



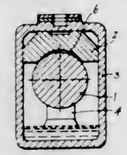
said underside, the center of gravity of the scaffold falling in a plane laterally intermediate the sides of the chassis so that there is no tendency for the carriage to tip over sideways when in use, the platform-member being pivotally connected to the chassis with the axis of pivotation laterally intermediate the sides of the chassis and somewhat below the wheel axes, the platform-member being tiltable through approximately 90 degrees so as to position its last-mentioned structural-means in downwardly-extending generally vertical position outside the adjacent edge of the bridge so as to enable the platform-member to clear underlying bridge projections during movement of the carriage, the center of gravity of the scaffold in up-tilted position still falling in a plane laterally intermediate the sides of the chassis.

2,669,491
SELF-ALIGNING POWDERED METAL BEARING
John Haller, Northville, Mich., assignor to Michigan Powdered Metal Products Co., Inc., Northville, Mich., a corporation of Michigan
Application February 15, 1950, Serial No. 144,313
4 Claims. (Cl. 308—72)



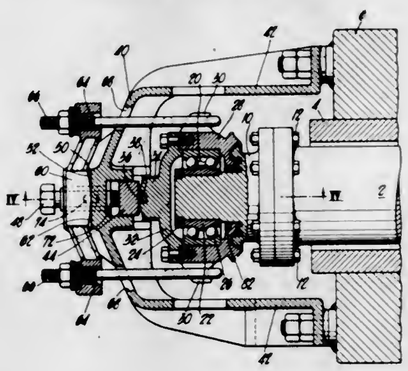
1. A self-aligning powdered metal bearing comprising a one-piece inner bearing element of powdered metal having a bore therein and a spherical outer bearing surface therearound, and a one-piece outer bearing element of powdered metal having an internal spherical bearing surface therein receiving and encircling said outer surface of said inner bearing element with an annular clearance space therebetween, said outer bearing element being formed of powdered metal of growing powder characteristics.

2,669,492
JOURNAL BEARING, IN PARTICULAR FOR AXLES OF ROLLING STOCK
Robert Turk, Gars am Kamp, Austria
Application March 26, 1952, Serial No. 278,693
5 Claims. (Cl. 308—79)



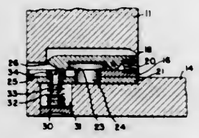
1. An axle bearing comprising a journal box, a bearing bushing mounted in said box, said bushing having an arcuate lower surface, and a journal rotatably extended into said journal box, the outer perimeter of said journal engaging the arcuate surface of said bushing, said journal being non-circular in shape to provide clearance between the arcuate lubricating surfaces of the bushing and journal, said journal is elliptical in cross-section.

2,669,493
THRUST BEARING FOR ROLLING MILL ROLLS AND THE LIKE
Louis L. Miller, Cleveland, Ohio, assignor to United States Steel Corporation, a corporation of New Jersey
Application January 12, 1950, Serial No. 138,183
5 Claims. (Cl. 308—233)



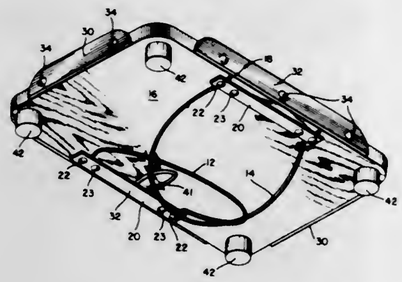
1. In combination, a housing, a shaft journaled therein having a thrust bearing at one end thereof, said thrust bearing including rotatable means attached to the end portion of the shaft and non-rotatable means surrounding the same, said non-rotatable means including a bearing at the outer end thereof, a housing member secured to the shaft housing surrounding said non-rotatable means, means in said housing member adapted to engage said last mentioned bearing, a yoke member having a bearing surface engaging the outer end portion of said housing member and means securing said yoke to said non-rotatable member.

2,669,494
LATCH FOR FOLDING TABLES
Harry E. Lenz, Sr., Dayton, Ohio
Application July 27, 1948, Serial No. 40,860
5 Claims. (Cl. 311—87)



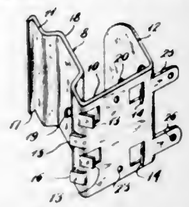
1. In a latch device for a folding table, the combination of a first latch member; a stud on the first latch member, said stud having an enlarged head and a reduced portion forming an annular groove on the stud; a second latch member; a notch formed in the second latch member to receive the reduced portion of the stud; a latch pawl pivoted on the second latch member; a recess formed in the latch pawl of a diameter and depth the same size as the size of said head, and arranged to engage the said head when the reduced portion of the stud is positioned in the notch; and a spring to maintain the recess of the latch pawl in engagement with said head when the latch members are in coincident positions.

2,669,495
CLAMP-ON TABLE FOR THE ARMS OF CHAIRS OR THE LIKE
Wilma L. Foote, Seattle, Wash.
Application February 18, 1952, Serial No. 272,195
2 Claims. (Cl. 311—17)



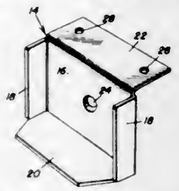
2. A clamp-on table for the arm of an armchair or the like, comprising: a flat table member; two flat metal strap members fixedly secured to the bottom of said table near two opposite side edges thereof; two resilient metal bail members each formed of a single spring wire having two leg portions and a generously curved intermediate portion joining said leg portions, the end portions of each bail member being fixedly clamped between one of said strap members and said table bottom and the remainder of each bail member extending inwardly in a plane close to parallel to the plane of the table bottom with the adjacent portions of the bail members lapped, the extreme end portions of the bail members extending outwardly of the strap members and each having a first bend directed toward said table bottom and a second bend extending outwardly parallel to and pressing against said table bottom whereby the bail members resiliently resist downward bending.

2,669,496
CORNER BRACKET FOR TELESCOPIC ENGAGEMENT WITH A TABLE
Alfred E. Puls, Cleveland, Ohio, and Edward R. Swenson, Metropolis, Ill., assignors to Babee-Tenda License Corporation, Metropolis, Ill., a corporation of Delaware
Application October 14, 1950, Serial No. 190,100
3 Claims. (Cl. 311—110)



1. A corner bracket for a table which bracket comprises a metal plate that is substantially U-shaped in section, said plate having a base with a pair of substantially parallel sides extending therefrom and with a pair of lugs of a fraction of the height of the bracket extending from said base oppositely to said sides and being inclined towards each other, one of said sides having a pair of lugs extending outwardly of the bracket and being inclined towards each other, one of said lugs on said side being formed at the corner connecting said side to said base and extending only a fraction of the height of the bracket, said sides having aligned apertures therein for receipt of means for securing a leg thereto, said lugs protruding from the remainder of the bracket for telescopic engagement with apron members to secure the bracket thereto.

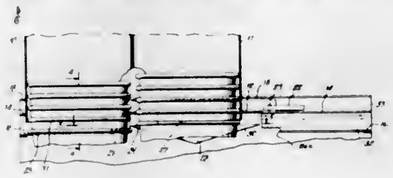
2,669,497
CORNER BRACE
Robert E. Bailey, Arlington, Vt.
Application March 6, 1953, Serial No. 340,863
2 Claims. (Cl. 311—113)



1. A corner brace comprising a vertical plate member of generally rectangular configuration, said plate having its opposed side edges laterally bent to present vertical side flanges, the lower edge of said plate being laterally bent in the direction of said vertical side flanges to present a horizontal lower flange, the upper edge of said plate being laterally bent oppositely of said lower flange to present an upper horizontal flange, said lower flange being wider than and projecting beyond the vertical edges of said side flanges a distance substantially equal to the width of the same.

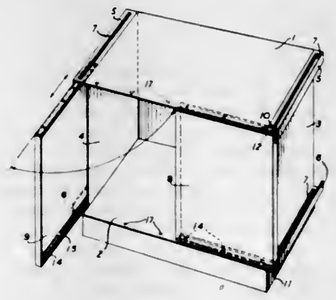
2,669,498
CUP DISPENSER
Hermann F. Bremer, Bronx, N. Y., assignor to Rainbows, Inc., Bronx, N. Y., a corporation of New York
Application August 28, 1952, Serial No. 306,791
2 Claims. (Cl. 312—43)

1. Apparatus for dispensing rimmed paper cups or the like, comprising a reciprocating frame, two straight parallel trackways for the support of said frame along which the frame is adapted to be moved from end to end of said trackways, two tubes vertically mounted upon said frame, each tube being adapted to contain a stack of cups telescopically engaged and both tubes being adapted to move together as the frame moves, a first pair of straight parallel rim-supporting shelves below the trackways near one end thereof and adapted to support the rim of the lowest cup in one of the tubes when the frame is at that end of the trackways, a second pair of straight parallel rim-supporting shelves near the other end of the trackways and adapted to support the rim of the lowest cup in the other one of said tubes when the frame is at said other end of the



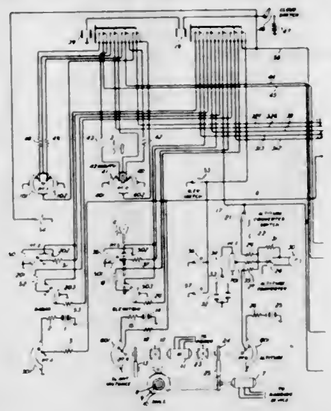
trackways, said first and second pairs of shelves being in substantially the same horizontal plane, a third pair of straight parallel rim-supporting shelves positioned near the center of said trackways and in a horizontal plane above that of the first and second shelves, said third shelves being adapted to support the next-to-lowest cup in a tube moving towards the center of said trackways, and cam members having sloping under-surfaces adapted to detach the lowest cup from the next-to-lowest cup in said tube when the latter moves toward center position, and horizontal upper surfaces adapted to support the next-to-lowest cup when the lowest cup is being detached and when the tube is returning from center position.

2,669,499
DOOR MOUNTING FOR STRUCTURES, INCLUDING CUPBOARDS
Hugh Vanderplank, Cardiff, Wales
Application October 20, 1949, Serial No. 122,380
3 Claims. (Cl. 312—322)



3. A structure comprising a wall provided with a door opening, a top wall and a bottom wall each having a portion extending into said door opening, an adjacent side wall, guide members on said adjacent side wall arranged in spaced apart relation, a door for masking and unmasking said door opening and mounted for slidable edgewise movement on said guide members to and from a position in which it is disposed alongside said adjacent side wall and to and from a position in which it is adapted to pivot into position to mask the door opening, a guide element on the upper edge of said door for engaging one of said guide members, a guide element on the lower edge of said door for engaging the other of said guide members, a plurality of spaced apart anti-friction rolling members on the upper and lower edges of said door and projecting therebeyond and engaging said guide members during said edgewise sliding movement of the door and resilient strips on the upper and lower edges of the door and cooperating therewith to retain the rolling members in position on the door, each of said top and bottom wall portions having at least one recess for receiving one of said rolling members when said door is in its door opening masking position to hold the door in said masking position.

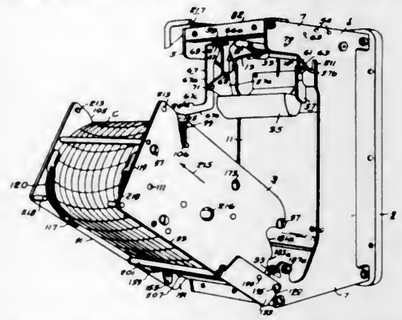
2,669,500
PLOTTING BOARD
Henry G. Och, Short Hills, and David B. Parkinson, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 26, 1946, Serial No. 679,352
13 Claims. (Cl. 346—8)



1. In combintion with a gun data computer including a source of voltage and means connected to said source and controlled by observations of the positions of a moving target to form the source of first and second voltages respectively proportional to the rectangular coordinates of the horizontal projection of the present position of the target and third and fourth voltages respectively proportional to the predicted changes in said coordinates during the time of flight of the shell, a plotting surface, first and second plotting arms slidably mounted at the edges of said surface, first and second mechanisms connected to said computer and energized by said first voltage to move said arms, first and second plotting pens in contact with said surface, first and second carriages respectively slidably mounted on said first and second arms and bearing said first and second pens, third and fourth mechanisms mounted on said first and second arms and energized by said second voltage to move said carriages, and switching means for connecting at will said third source of voltage to said first or said second mechanism and for connecting said fourth source of voltage to said third or said fourth mechanism.

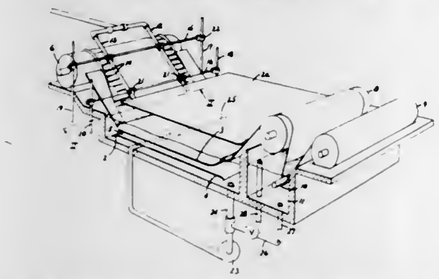
2,669,501
RECORDER WITH MOVABLE CHART CARRIAGE
Douglass A. Young, East Orange, Lawrence J. Lunas, Cedar Grove, and John Walsweer, Glen Ridge, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 28, 1947, Serial No. 750,935
25 Claims. (Cl. 346—68)

1. In a recording device, a chart carriage, support means for the chart carriage, said chart carriage and said support means having coacting portions defining an axis about which the chart carriage is pivotable relative to the support means from a first position to a second position displaced from the first position, and means for locating said chart carriage normally in an operative recording position relative to the support means, wherein said coacting portions are displaced from the relationship defining said axis, said chart carriage being movable from the recording position to said first position for permitting further movement of the chart carriage about said axis.



CHEMICAL

2,669,502
METHOD FOR DYEING AND PRESETTING TRICOT FABRICS
Leslie L. Walmsley, Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application July 16, 1951, Serial No. 236,912
3 Claims. (Cl. 8—17)

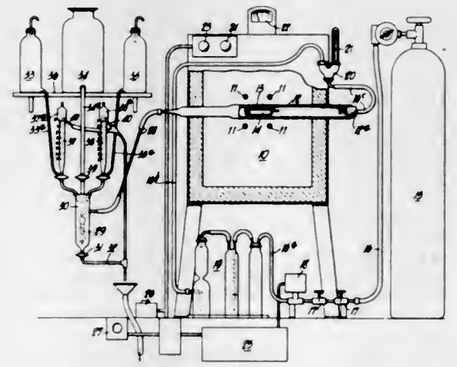


1. A method of simultaneously dyeing and stabilizing against edge-curling a tricot fabric comprising yarns of cellulose acetate and having strains which cause the edges to curl which comprises the steps of continuously advancing the aforesaid fabric in the dry condition longitudinally toward a dyebath at open width downwardly over a flat, inclined supporting surface with that face of the fabric which forms the inside face of the coils in the edge-curls facing upwardly, said dyebath comprising an aqueous dispersion of a water-insoluble cellulose acetate dyestuff and a swelling agent for cellulose acetate and being maintained at a temperature between 180° F. and 212° F., uncurling the edges of the fabric advancing to the dyebath as it approaches and immediately before it enters the dyebath by continuously projecting air jets in opposite directions extending laterally outwardly from the central portion of the aforesaid face of the fabric against the opposite edges of the fabric while it is supported on said supporting surface, continuously drawing the thus-advanced fabric with its edges uncurled in full open width only once through the dyebath, exerting downward pressure on the fabric in the dyebath across the entire width thereof to prevent recurling of the edges and to keep the fabric submerged therein, guiding the fabric along a path therein consisting of an initial portion downwardly inclined from the fabric entrance and extending to a depth of at least two inches below the top surface of the dyebath, a generally horizontal portion extending from the initial portion along a substantially straight line at a depth of at least two inches below the top surface of the dyebath, and an upwardly inclined portion extending from the generally horizontal portion out of the dyebath, the fabric during said drawing step being under a tension sufficient only to draw the fabric through said path whereby to provide free passage of the fabric through the dyebath without placing it under a tension which would inhibit relaxation of the strains therein, and circulating the dyebath by continuously withdrawing a portion thereof adjacent the end from which the fabric is discharged and introducing the portion withdrawn adjacent the end into which the fabric enters at a plurality of points distributed the full width of the dyebath adjacent the bottom thereof.

2,669,503
METHOD OF RESTORING USED COLOR-REACTANT RECORD MATERIAL FOR REUSE
David W. Steinhardt, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
No Drawing. Application June 23, 1951, Serial No. 233,256
9 Claims. (Cl. 8—102)

1. In the method of eradicating colored marks from used record material sensitized with particles of an acid-like electron acceptor adsorbent pigment and upon which the colored marks were made by having applied thereto a marking material including an organic double-bond aromatic electron donor compound having a diphenyl phthalide structure characterized by having saturated dialkylamino auxochromic groups on the phenyl nuclei, which marking material by chemical adsorption on the pigment immediately had been changed to a more highly polarized conjugated form accompanied by a change in color, and upon which record material there is further present in yet unoxidized form a colorless compound from the group consisting of tetramethyl benzidine, tetraethyl benzidine, benzoyl leuco methylene blue, and mixtures thereof, which are oxidizable upon long contact with the aforesaid adsorbent pigment to a colored form, and as an incident to said eradication, restoring the sensitivity of said record material at said points where discolored, the step of flooding the record material at the marked area with a volatile fluid, said fluid containing a volatile acid and a volatile organic solvent, said acid being strong enough as an electron acceptor to react with the phthalide compound to form a salt with the auxochromic groups thereof, destroying its color, whereby because of said salt formation the phthalide compound adsorbed chemically on the pigment desorbs therefrom, the aforesaid solvent acts to wash away the oxidizable compound, and the excess fluid acid volatilizes, thus leaving the record material dry and the treated adsorbent surfaces of the pigment chemically active.

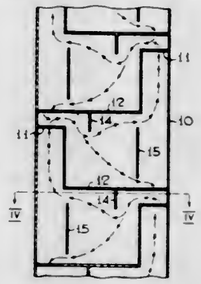
2,669,504
METHOD FOR DETERMINING SULFUR CONTENTS BY COMBUSTION
Gaylord Herbert Halvorson, Elmer Herman Lutz, and John Fosmark Swensen, Duluth, Minn.
Application August 10, 1951, Serial No. 241,366
1 Claim. (Cl. 23—230)



In a method of determining the sulphur content of a sample of material, the steps including adding to an acidic starch solution a predetermined amount of a solution containing iodine in excess of that needed for combination with all the sulphur in the sample covering the sample with powdered iron, heating the sample to a temperature above 2300° F. in the presence of oxygen thereby effecting combustion of the sulphur contained in the sample, conducting the gas from said combustion through said solution thereby causing combination of the sulphur dioxide in said gas and some of the iodine, then adding to the solution, a solution of a sulphur compound until the color of the starch solution is wholly discharged, and noting the quantity of the solution of sulphur compound so used.

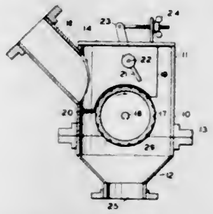
2,669,505
CONTACTING PLATE FOR LIQUID-LIQUID EXTRACTION TOWER
Cyril O. Rhys, Jr., Westfield, and William E. Stanton, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application December 18, 1948, Serial No. 66,106
1 Claim. (Cl. 23—270.5)

An improved apparatus for the countercurrent contacting of liquids comprising a plurality of contacting zones disposed one above another within an upright shell, each of said zones limited by a pair of vertically displaced contacting plates extending across the entire cross section of the shell, each of said plates being characterized by two horizontal plane elements arranged at different levels and connected by a vertical imperforate plane element, each plate being perforated in its extreme portions next to the shell wall at points oppositely removed from said vertical plane element and at least one of the said horizontal plane elements of each plate having an imperforate portion intermediate the perforated portions of the plate, each of said plates being in reverse relationship with the next higher plate,



whereby the perforated portion of the upper plane element of one plate is aligned below the perforated portion of the lower plane element of the next higher plate, said apparatus being further characterized by a vertical imperforate baffle element spaced from and positioned between each of the plates in substantial vertical alignment with said vertical imperforate plane element, said apparatus being further characterized by a second imperforate vertical plane element fixed to the lower side of each plate between the lowest perforated portion and the intermediate imperforate portion of said plate.

2,669,506
PEBBLE FEEDING APPARATUS
Louis J. Weber, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 14, 1948, Serial No. 54,431
8 Claims. (Cl. 23—288)



1. An apparatus to be used in conjunction with a pebble heating apparatus for controlling the flow of pebbles therethrough, which comprises a gas-tight pressure-resisting housing, pebble inlet means for introducing a contiguous mass of pebbles into said housing, a rotatable multi-grooved drum horizontally positioned within said housing and in the line of flow of pebbles introduced thereto, means for variable speed rotation of said drum and thereby causing controlled flow of pebbles from said inlet over said drum and into the bottom of said housing, side-plates for preventing the flow of pebbles over the upper outside edges of said drum, grooves in said drum terminating at a point within the inner edges of said side-plates, said grooves being of a depth in the range of ¼ to 1 pebble di-

ameter and with a width in the range of 1 to 1¾ pebble diameters, an externally adjustable gate within said housing above said pebble inlet and said drum and parallel to said drum and between said side-plates, a shaft rigidly attached to said gate and supported at each end by said side-plates, said shaft being horizontally positioned to one side of a vertical plane passing through the center of rotation of said drum and in the direction of rotation of said drum, means for rotating said shaft from a position whereby said gate hangs in a vertical position touching said drum to a horizontal position whereby said gate extends from said shaft in the direction of rotation of said drum, restrictive means within said housing for preventing the flow of pebbles through said housing countercurrent to the rotation of said drum, said restrictive means being so placed that its plane intersects said drum above a horizontal plane through the center of rotation of said drum, and means for removing pebbles from the bottom of said housing.

2,669,507
STABILIZED ORGANIC COMPOSITIONS CONTAINING ALKOXY PHENOLS AND MERCAPTO ALKANOIC ACIDS

David W. Young, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

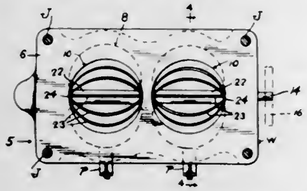
No Drawing. Application May 4, 1950, Serial No. 160,093
9 Claims. (Cl. 44—70)

1. An anti-oxidant composition of matter, consisting essentially of a synergistic combination of a para alkoxy phenol selected from the group consisting of 2-t-butyl-4-methoxy-phenol, 2-2-bis(2-hydroxy-5-methoxy-phenyl) propane, 2,2-bis(2-hydroxy-3-t-butyl-5-methoxyphenyl) propane, styrene alkylated 4-methoxy-phenol, and 2,6 di-t-butyl-4-methoxy phenol, with a low molecular weight unsubstituted mercapto alkanoic acid selected from the group consisting of 2-mercapto ethanoic acid and 3-mercapto propionic acid, the unsubstituted mercapto alkanoic acid and para alkoxy phenol being present in approximately equal amounts.

2,669,508
FUEL MIXER

Albert James Christensen, Long Beach, Calif.

Application March 6, 1951, Serial No. 214,039
1 Claim. (Cl. 48—180)

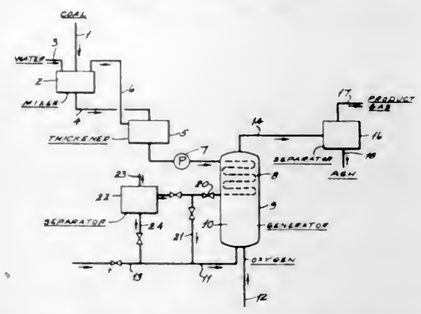


A liquid fuel mixer for internal combustion engines comprising companion sections with opposed inner surfaces and having fuel mixing chambers therein communicating with outlet ports, a gasket disposed between the opposed inner surfaces of said sections, squirrel cage type fans disposed in said chambers, a shaft journalled in opposed recesses between the opposed inner surfaces of said sections with one end thereof projecting through the mixer and its opposite end terminating inwardly of the adjacent walls of the sections, adjustable pressure plates extending laterally into the mixing chambers below the fans, a gear secured to the outer end of said shaft, and means securing said sections together into a unit.

2,669,509
PROCESS FOR GASIFYING CARBONACEOUS SOLIDS

Frederick Burton Sellers, New York, N. Y., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware

Application September 16, 1948, Serial No. 49,582
4 Claims. (Cl. 48—206)



1. In a process for the production of carbon monoxide and hydrogen by reaction of a solid carbonaceous fuel with steam and substantially pure oxygen within a closed reaction zone maintained at an elevated pressure, the improvement which comprises passing as a continuous stream in turbulent flow through a tubular heating zone within said reaction zone at a pressure in excess of the pressure in said reaction zone a suspension of particles of said fuel in a liquid which is substantially inert with respect to reaction with said fuel under the conditions existing in said heating zone, vaporizing said liquid within said heating zone by heat exchange with said reaction thereby forming a dispersion of particles of said fuel in vapor within said heating zone and removing heat from said reaction zone, and continuously introducing resulting dispersion of solid carbonaceous fuel in vapor into said gasification zone as reactant for the production of carbon monoxide and hydrogen.

2,669,510
FERTILIZER CONDITIONER

Harry A. Dresser, Chicago, Ill., assignor to Zonolite Company, Chicago, Ill., a corporation of Montana

No Drawing. Application April 6, 1953, Serial No. 347,173
8 Claims. (Cl. 71—64)

1. A free-flowing fertilizer comprising a commercial fertilizer composition in admixture with up to about 1.5% of exfoliated vermiculite.

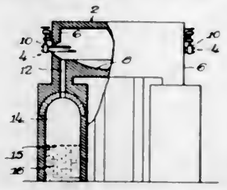
2,669,511
METHOD FOR REFINING FERROUS METALS

Loren L. Whitney, Jr., Alliance, Ohio

Application April 6, 1950, Serial No. 154,330
3 Claims. (Cl. 75—43)

1. In a method of refining a charge of ferrous metal or alloy thereof, in a metallurgical furnace, the steps of first inserting said charge into the furnace, then melting said charge by heating it to the melting temperature thereof while simultaneously directing against said charge a stream of substantially pure oxygen and a stream of

powdered iron and then after the charge has melted substantially level terminating the flow



of oxygen and powdered iron while refining the charge by continuing to heat the same.

2,669,512
ELECTRIC CONTACT MATERIAL AND METHOD OF MAKING THE SAME

Earl I. Larsen, Arnold S. Doty, and Donald A. Williams, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

No Drawing. Application January 9, 1951, Serial No. 205,232
1 Claim. (Cl. 75—173)

An electrical make-and-break contact formed of a composition consisting of 2–15% of cadmium oxide, 0.1–1% of magnesium oxide, the balance being substantially all silver, said composition having a microstructure as is obtained by internal oxidation of a cast silver-cadmium-magnesium alloy characterized by a silver matrix and by the presence of particles of cadmium oxide and magnesium oxide uniformly distributed throughout said matrix and being further characterized by high hardness, non-annealing and non-welding properties which are considerably superior to those of contacts consisting of silver and of cadmium oxide in identical proportions in the absence of magnesium oxide.

2,669,513
TITANIUM BASE ALLOYS CONTAINING ALUMINUM AND TIN

Robert I. Jaffee, Worthington, and Horace R. Ogden and Daniel J. Maykuth, Columbus, Ohio, assignors, by mesne assignments, to Rem-Cru Titanium, Inc., Midland, Pa., a corporation of Pennsylvania

No Drawing. Application April 29, 1952, Serial No. 285,076
4 Claims. (Cl. 75—177)

1. A titanium base alloy containing about: 1–23% tin, 0.25–7.5% aluminum, characterized in being ductile and forgeable and in having a tensile strength at least 10% in excess of the unalloyed titanium base metal.

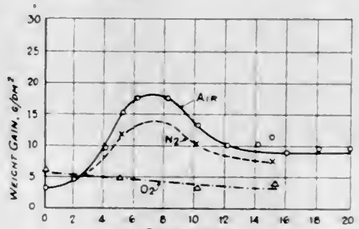
2. An alloy consisting of about: 1–23% tin, 0.25–7.5% aluminum, up to 1% carbon, up to 0.5% oxygen, up to 0.3% nitrogen, and the balance titanium.

2,669,514
TITANIUM BASE ALLOYS CONTAINING TIN

Walter L. Finlay, Beaver, Pa., and Robert I. Jaffee, Worthington, and Horace R. Ogden, Columbus, Ohio, assignors, by direct and mesne assignments, to Rem-Cru Titanium, Inc., Midland, Pa., a corporation of Pennsylvania

Application March 11, 1953, Serial No. 341,796
6 Claims. (Cl. 75—177)

1. A ductile titanium base alloy containing: about 5 to 23% tin, up to about 1% carbon, up to about 0.5% oxygen, and up to about 0.3% nitrogen, characterized in having an ultimate strength at least 10% in excess of the unalloyed titanium base metal.



EFFECT OF ATMOSPHERE ON THE SCALING RATE OF Ti AND Ti-Sn ALLOYS AFTER 4 HOURS AT 1050°C

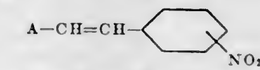
5. An alloy consisting essentially of about: 1 to 23% tin, at least one element selected from the group consisting of carbon, oxygen and nitrogen in minimum amount of 0.1% and in maximum amount of 1% carbon, 0.5% for oxygen, and 0.3% for nitrogen, balance titanium, characterized in having in the annealed condition an ultimate strength at least 30% in excess of the unalloyed titanium base metal, and a minimum bend ductility under 20T.

2,669,515
DIRECT POSITIVE EMULSIONS

John David Kendall and Henry Walter Wood, Ilford, and Stanley Frederick William Welford, Knutsford, England, assignors to Ilford Limited, Ilford, England, a British company

No Drawing. Application July 21, 1952, Serial No. 300,116
Claims priority, application Great Britain August 1, 1951
7 Claims. (Cl. 95—7)

1. A direct positive photographic element comprising a fogged gelatino silver chloride emulsion containing a desensitising compound of the general formula:



where A is a quaternary heterocyclic nucleus selected from the group consisting of the cinnoline and quinazoline nuclei.

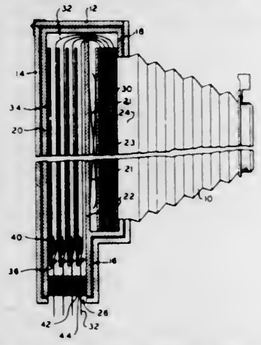
2,669,516
PHOTOGRAPHIC ARTICLE FOR MAKING A ONE STEP TRANSFER IMAGE

Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Original application November 5, 1946, Serial No. 707,966. Divided and this application December 21, 1949, Serial No. 134,153
18 Claims. (Cl. 95—8)

1. A photographic product containing material, including a photographic reagent, for producing a transformation of an image in said product, said reagent being present in an amount sufficient to effect said transformation, said product comprising a first liquid-confining element including at least a photosensitive silver halide portion capable of having an image formed therein upon photoexposure, a second liquid-confining element, a rupturable containing means holding a liquid, said liquid being in an amount sufficient for transforming an image in said photosensitive portion, and means, including a leader, connect-

ing together said elements and said containing means, said elements, as connected, being so displaced relative to one another that said photosensitive portion can be photoexposed without obstruction by said second element and said containing means is unable to release its liquid for spreading between said photosensitive portion and said second element, said leader extending slidably through an opening in one of said elements and being so attached to the other of said



elements as to draw the latter toward said one element when drawn through said opening so that said connecting means is capable of sliding said photosensitive portion into superposition with said second element and of locating said containing means for releasing its liquid content between said photosensitive portion and said second element, said liquid, upon permeation of said photosensitive element, rendering said transforming material effective to transform an image in said photosensitive portion.

2,669,517

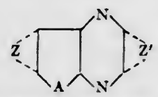
FUROQUINOXALINES AND THIENOQUINOXALINES AS CATALYSTS IN DYE BLEACH BATHS FOR COLOR PHOTOGRAPHY

Fritz W. H. Mueller, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 10, 1952, Serial No. 325,218

16 Claims. (Cl. 95—88)

1. A silver dye bleach bath comprising an aqueous solution of a water soluble halide and an acid selected from the class consisting of non-oxidizing mineral acids and water soluble organic acids and an accelerator of the general formula:



wherein A is an atom selected from the group consisting of oxygen and sulfur and Z and Z' represent the atoms necessary to complete a carbocyclic ring system of the benzene, naphthalene, anthracene and acenaphthene series.

2,669,518

METHOD OF TREATING WHOLE EGGS

David Torr, New York, N. Y., assignor to Charles J. Ely, Oakland, N. J.

No Drawing. Application December 19, 1950, Serial No. 201,693

4 Claims. (Cl. 99—113)

1. The method of treating whole eggs, including egg shells, which comprises progressively disintegrating the whole eggs, and continuing the progressive disintegration until the entire product, including the egg shell and shell membrane, is converted into a colloidal mass with the egg shell constituents having a particle size of less than about 10 microns uniformly dispersed in a colloidal organic matrix.

2,669,519

GELLING COMPOSITIONS

George L. Baker, Newark, Del., assignor to Seaplant Chemical Corporation, New Bedford, Mass., a corporation of Delaware

No Drawing. Application April 26, 1952, Serial No. 284,638

4 Claims. (Cl. 99—131)

1. A gelling composition capable of inducing a high degree of elasticity in a gel system formed therefrom which comprises a mixture of four elements, namely, gelose of the Irish moss type, agar, a neutral high polymer, and a cation-containing salt, said gelose being present in the mixture in an amount which is from 33% to 66% of the combined weight of said gelose and said agar, said neutral high polymer being present in the mixture in an amount which is 30% to 50% of the combined weight of said four elements, and the amount of cation-containing salt being present in the mixture in an amount which is 20% to 50% of the combined weight of said four elements.

2,669,520

PROCESSING OF SHELLFISH AND CRUSTACEANS

Carl R. Fellers, Amherst, Mass., assignor to Blue Channel Corporation, Port Royal, S. C., a corporation of Maryland

No Drawing. Application June 2, 1950, Serial No. 165,867

15 Claims. (Cl. 99—160)

1. The method of preserving the natural color, flavor and appearance of fresh and processed seafoods of shellfish and crustaceans which comprises treating the same with a small amount of a soluble ethylenediamine tetracetic acid compound.

2,669,521

FLAME RESISTANT COMPOSITIONS

Lester A. Bierly, Silver Springs, Fla., assignor, by mesne assignments, to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application April 17, 1948, Serial No. 21,742

17 Claims. (Cl. 106—15)

1. A composition of matter consisting of a moldable thermoplastic composition of substantial flameproofing properties, said composition being an intimate mixture of a major proportion of at least 50% of an inflammable polymeric thermoplastic material and a minor proportion of at least 15% of flameproofing constituents comprising a highly chlorinated high molecular weight organic material, containing more than eight carbon atoms, selected from the group consisting of chlorinated aliphatic hydrocarbons and mixtures of chlorinated aliphatic hydrocarbons and chlorinated cycloaliphatic hydrocarbons and containing between 50 and 80% of chemically combined chlorine and an inorganic flame-retardant substance selected from the group consisting of oxides and sulfides of Group Vb elements of the Periodic System having atomic numbers of 33 or more, said thermoplastic material and said flameproofing constituents together being substantially 100% of the composition.

2,669,522

METHOD OF PREPARING MOLDED PRODUCTS OF LIGNOCELLULOSE AND LIGNIN

Donald F. Othmer, Coudersport, Pa., and Warren R. Smith, Crown Point, N. Y.

No Drawing. Application December 16, 1950, Serial No. 201,243

2 Claims. (Cl. 106—123)

1. A dry process for obtaining molded products comprising mixing substantially dry to naturally moist lignocellulose pourable particles with 2 to 50% of substantially air dry lignin powder to obtain a composition having an over all lignin percentage of 33 to 40% calculated on the bone dry basis of the resulting mixture, heating the mixture to 205 to 300° C. at a pressure of 100 pounds to 1,000 pounds per square inch for a temperature sufficiently long to effect chemical bonding of the lignocellulose to said lignin whereby a hard, dense water-resistant molded product of chemically interlocked lignocellulose with lignin is obtained.

2,669,523

COLD WATER DISPERSIBLE STARCH SIZES AND PROCESS OF MAKING THEM

Ralph W. Kerr, Riverside, and Walter J. Katzbeck, Oak Park, Ill., assignors to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application August 28, 1952, Serial No. 306,965

14 Claims. (Cl. 106—213)

14. Cold water dispersible, cold water soluble starch produced by treating starch with an oxidizing agent until a sample exhibits a paste viscosity by Scott test within the range of about 45 seconds per 100 ml. using 100 grams of starch in 280 ml. of water to about 35 seconds per 100 ml. using 28.35 grams of starch in 280 ml. of water, substantially completely gelatinizing and molecularly dispersing the starch, and dehydrating the starch paste in the presence of from about 3 to about 7 percent of boric acid, based on the weight of the starch said boric acid being added to the starch after oxidation but prior to dehydration, and being dispersed in cold water within at least about 80 seconds and having a water spot rating not exceeding about 3.

2,669,524

WATER-REPELLING COMPOSITION

Norman G. Mailander, Racine, Wis., assignor to S. C. Johnson & Son, Inc., Racine, Wis.

No Drawing. Application September 8, 1950, Serial No. 183,916

3 Claims. (Cl. 106—271)

1. A solution for rendering fabric water-repellent, consisting essentially of from 1 to 10% by weight of a material selected from the group consisting of petroleum waxes and polymerized octadecyl vinyl ether, from .1 to 3% of zirconium ethoxide and a solvent selected from the group consisting of volatile aromatic liquid hydrocarbons and liquid aliphatic halogenated hydrocarbons, said solvent constituting the major portion by weight of said solution.

2,669,525

BITUMEN AND POLYVALENT METAL HYDROCARBON OIL SULFONATE COMPOSITION AND PROCESS OF MAKING SAME

David W. Bransky and John A. Bolt, Chicago, Ill., Maurice W. Stacy, Valparaiso, Ind., and Morris Feller, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application August 3, 1949, Serial No. 108,428

18 Claims. (Cl. 106—278)

14. The composition comprising a bitumen hydrocarbon and from about 0.5% to about 5% of a mixture consisting essentially of from about 20% to about 30% calcium sulfonate derived from sulfuric acid sludge resulting from the treatment of hydrocarbon oils with sulfuric acid of at least about 95% strength, from about 35% to about 60% of a liquid solvent having a boiling point above about 220° F. and an aromatic content of at least about 40%, and from about 4% to about 8% of an alkyl carbinol having from 2 to about 16 carbon atoms, not more than about 35% water and from about 5% to about 10% hydrocarbon oil other than said liquid solvent.

2,669,526

ENAMEL COMPOSITION HAVING A STABILIZED DRYING RATE AND METHOD FOR PREPARING SAME

Donald F. Koenecke, Elizabeth, and John F. McKay, Jr., Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 30, 1949, Serial No. 130,339

4 Claims. (Cl. 106—285)

1. A coating composition comprising 100 parts of an oily siccative diolefin polymer prepared by the polymerization of conjugated diolefins having from 4 to 6 carbon atoms in the presence of a catalyst chosen from the class consisting of hydrocarbon soluble peroxides and metallic sodium having a molecular weight between 1,000 and 10,000 in solution in a hydrocarbon solvent boiling between about 60 and 250° C., 5 to 300 parts of a finely divided pigment dispersed therein, a small amount of at least one heavy metal soap drier, and about 2.5 to 10 percent of powdered calcium oxide based on the weight of diolefin polymer.

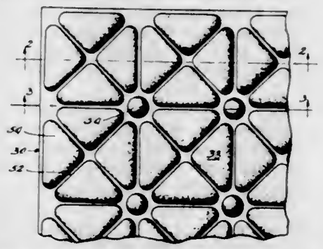
2,669,527

FLOOR-COVERING CUSHION

Theodore Horwich, Chicago, Ill., assignor to General Felt Products Co., Chicago, Ill., a corporation of Illinois

Application February 6, 1952, Serial No. 270,234

2 Claims. (Cl. 117—10)



1. A floor-covering cushion comprising a loosely matted felted fiber resilient base having an outer surface thereof impregnated with a resil-

ient material, said material comprising a configuration formed of a plurality of indented portions and a plurality of unindented portions, both said indented and unindented portions lying solely in a surface of said cushion, said indented portions being substantially narrow and said unindented portions being of substantially larger surface area than said indented portions, and said resilient material being cured as a continuous film of a resilient rubber composition having sufficient thickness to be self-identifiable as a coherent rubbery layer having integrally included therein the fibers lying on the surface only of said fiber base whereby said surface will retain its configuration having enhanced cushioning effect.

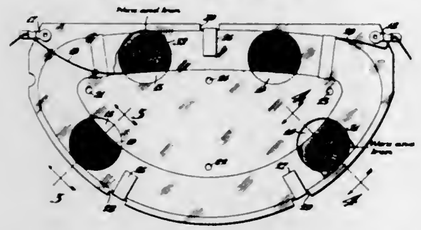
2,669,528

PROCESS OF INCREASING THE INDUCTANCE OF A LOOP ANTENNA

Alphonse Charles Stelzer, Cincinnati, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware

Original application May 11, 1950, Serial No. 161,436. Divided and this application April 19, 1951, Serial No. 221,891

1 Claim. (Cl. 117—37)



The process of increasing the inductance of a loop antenna of insulated wire to a predetermined inductance value which comprises depositing on at least one preselected, isolated bare portion of the loop antenna a hot melt of a low melting-point impregnating wax having dispersed therethrough a ferromagnetic powder, permitting said hot melt to solidify, and thereafter sequentially measuring the inductance of the coated loop antenna and depositing additional increments of said hot melt at other separate and distinct preselected bare portions of said loop antenna until the desired predetermined inductance value is obtained, the total deposit of ferromagnetic powder being an amount sufficient to raise the inductance of the loop antenna to the desired predetermined value.

2,669,529

DEACETYLATED CHITIN SHRINKPROOFING OF WOOL AND PRODUCT

John B. Rust, Verona, N. J., assignor, by direct and mesne assignments, of one-half to Montclair Research Corporation, Montclair, N. J., a corporation of New Jersey, and one-half to Ellis-Foster Company, a corporation of New Jersey

No Drawing. Application November 5, 1949, Serial No. 125,837

18 Claims. (Cl. 117—62)

4. The method of shrinkproofing wool while retaining substantially normal hand which comprises impregnating the wool by padding it with an aqueous solution of a salt of an acid with a substantially undegraded at least partially deacetylated chitin to deposit on said wool an amount of said salt from about 1.5 to 10% by weight on the wool to yield an amount of deacetylated chitin derivative sufficient to shrinkproof the wool while retaining substantially normal hand, removing any excess solution, and setting said deposit on the wool by treating with an aqueous solution of a water soluble salt precipitating agent at a temperature between room temperature and about 80° C., the temperature used being one that does not insolubilize the chitin derivative by heat before being set by the setting agent, the salt being sufficiently soluble to act as a setting agent, and the cation of the salt being selected from the group consisting of the alkali metals, ammonium, the alkaline earth metals, and magnesium.

2,669,530

PREPARATION OF BETA-DEXTROSE BY MELTING AND CRYSTALLIZING

Francis E. Kite, Riverside, Ill., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application September 22, 1951, Serial No. 247,902

6 Claims. (Cl. 127—60)

1. Process for the production of beta dextrose, comprising rapidly heating crystalline alpha anhydrous dextrose until completely fused to form a melt; cooling the melt to a temperature within the range of about 130° C. to about 140° C. without inducing crystallization and seeding the liquid melt with crystalline dextrose at said temperature; further cooling said melt to a temperature within the range of about 70° C. to about 100° C., and maintaining the same at a temperature within this range until crystallization is complete.

2,669,531

REMOVAL OF SPENT POLYMERIZATION CATALYST

Alexander G. Petkus, La Grange, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application December 22, 1947, Serial No. 793,309

4 Claims. (Cl. 134—30)

1. A method for removing a packed bed of spent polymerization catalyst from a confined zone, which comprises, passing steam through said bed for a sufficient time to distill hydrocarbonaceous materials therefrom and effect a partial softening of said catalyst, subsequently opening said confined zone to the atmosphere below said bed, and applying a sufficiently high hydraulic pressure in a downward direction to the entire top surface of said bed to force said catalyst from the lower end of said confined zone.

2,669,532

ACTIVATION OF OXALATE METAL COATING COMPOSITIONS

Robert C. Gibson, Birmingham, Mich., assignor to Parker Rust Proof Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application July 24, 1951, Serial No. 238,395

6 Claims. (Cl. 148—6.14)

2. A composition of matter for coating a stainless steel to protect the metal surface during a defromation operation such as drawing and the like which consists essentially of an acidic aqueous solution of oxalic acid, the ferric ion and the ferricyanide ion, the oxalate ion being present in an amount in excess of that required to form ferric oxalate, the ferric ion being present in an amount between about .4% and 6% and the ferricyanide ion being present in an amount between about 3% and 29%.

2,669,533

METHOD OF MAKING GERMANIUM HALL PLATES

William Crawford Dunlap, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application January 3, 1951, Serial No. 204,277

11 Claims. (Cl. 148—11.5)

1. The method of making germanium Hall plates, which method comprises extracting a wafer of germanium no greater than 0.060 inch thick from an ingot of highly purified germanium, heating the wafer for an extended period of time at a temperature above 600 degrees centigrade but below the melting point of germanium, and rapidly cooling the heated wafer at a cooling rate of at least 200 degrees per second.

2,669,534

PRODUCTION OF ALLOYS

William Henry Richardson, Datchet, England, assignor to Langley Alloys Limited, Langley, England, a body corporate of Great Britain

No Drawing. Application February 19, 1951, Serial No. 211,808

Claims priority, application Great Britain February 20, 1950

8 Claims. (Cl. 148—11.5)

1. A method of manufacturing articles from aluminium bronzes consisting of copper and from 8–12% aluminium with smaller proportions of other ingredients comprising subjecting the article to a heat treatment within the temperature range 800° C. up to about 1050° C. according to the particular constitution of the alloy, to bring it substantially to a beta condition where substantially the whole of the aluminium is in solid solution and then quenching the material to below 600° C. virtually to retain this condition and to ensure that any alpha particles that may be present are in the form of a fine dispersion, and then reheating the alloy and subjecting it to final hot working to a finished shape at a temperature within the range 800°–900° C. at which alpha particles are still present.

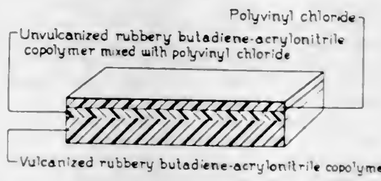
2,669,535

HEAT-SEALED COMPOSITE ARTICLE AND SHIRRED PRODUCT AND METHOD OF MAKING SAME

Marcus O. Orr, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application April 5, 1951, Serial No. 219,533

9 Claims. (Cl. 154—124)



1. A composite article comprising an elastic member including a rubbery polymer of an open-chain conjugated diolefin with an alpha-methylene nitrile, said polymer being vulcanized in a stratum of said member and being unvulcanized in a stratum at a face of said member, said unvulcanized stratum comprising, in homogeneous admixture with said rubbery polymer, a polymer of a monomeric material comprising predominantly a chloroethylene having from one to two chlorine atoms on one only of the carbon atoms, and a thermoplastic member comprising a polymer of a monomeric material comprising predominantly a chloroethylene having from one to two chlorine atoms on one only of the carbon atoms, said thermoplastic member being fused in direct face-to-face contact to said face of the elastic member.

6. The method which comprises stretching an elastic sheet comprising a rubbery polymer of an open-chain conjugated diolefin with an alpha-methylene nitrile, said polymer being vulcanized in a stratum of said member and being unvulcanized in a stratum at a face of said member, said unvulcanized stratum comprising, in homogeneous admixture with said rubbery polymer, a polymer of a monomeric material comprising predominantly a chloroethylene having from one to two chlorine atoms on one only of the carbon atoms, heat-sealing said face throughout its extent to a face of a thermoplastic sheet comprising a polymer of a monomeric material comprising predominantly a chloroethylene having from one to two chlorine atoms on one only of the carbon atoms, said thermoplastic sheet being in a relaxed substantially unstretched condition, and thereafter relaxing the stretched sheet to produce shirring of said thermoplastic sheet.

2,669,536

PREPARATION OF AN ADRENAL GLAND STIMULATING SUBSTANCE

Irby M. Bunding, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application August 15, 1950, Serial No. 179,650

3 Claims. (Cl. 167—74)

1. A process for preparing an adrenocorticotrophic substance from a solution containing the substance comprising adsorbing said substance on cellulose material at a pH above 3.0 and eluting the adsorbed substance at a pH which is lower than the adsorption pH and which is within the range from 1.0 to 4.5.

2,669,537

ADRENOCORTICOTROPHIN-GELATIN PREPARATION

Robert E. Thompson, Cos Cob, Conn., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application December 27, 1952, Serial No. 328,268

7 Claims. (Cl. 167—74)

1. An adrenocorticotrophin preparation suitable for parenteral administration, comprising adrenocorticotrophin substance and non-antigenic pharmaceutical gelatin.

2,669,538

SEPARATION OF VAPORS AND VISCOUS LIQUIDS

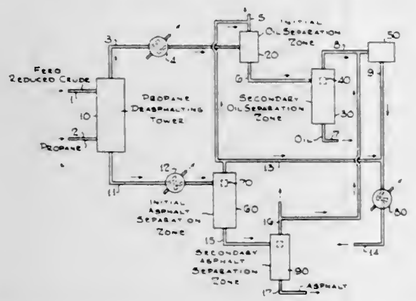
Frank H. Yurasko, Roselle, and Howard C. North, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application February 18, 1949, Serial No. 77,172

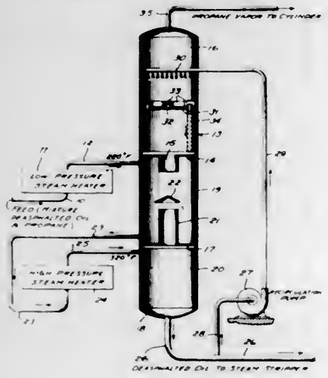
6 Claims. (Cl. 196—14.46)

1. Process for the separation of entrapped gaseous constituents from a viscous liquid flowing in a conduit, said viscous liquid being characterized by having a viscosity from about 30–1200 seconds Furol at 300° F. which comprises heating said viscous liquid to a temperature above

the vaporization temperature of said entrapped gaseous constituents, passing said heated viscous liquid from said conduit through a vapor space at a high velocity into a separation zone and impinging said viscous liquid onto and into a resilient mass of a filamentous material maintained in said separation zone, said mass being characterized by having a thickness in the range from about 3 inches to 12 inches and being further characterized by having at least 50% free space, whereby separation of said gaseous constituents and the viscous liquid is secured, removing the gaseous constituents from the top of said separation zone and said viscous liquid from the bottom of said separation zone.

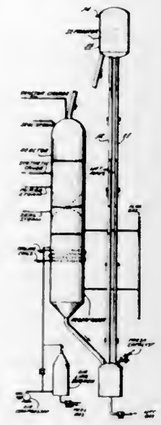


2,669,539
PROPANE DEASPHALTING OF CRUDE RESIDUA OF HYDROCARBON OIL
John G. Ditman, Flushing, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application December 21, 1950, Serial No. 201,932
3 Claims. (Cl. 196—14.46)



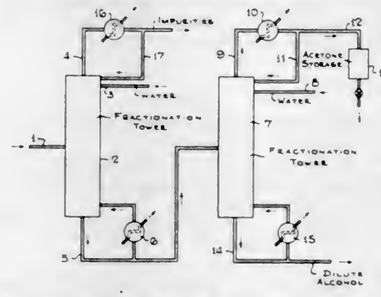
1. In the propane deasphalting of crude hydrocarbon oil residua having asphalt therein, the process of recovering propane from a liquid mixture of propane deasphalted oil and propane and suppressing foaming encountered in said process which comprises heating said mixture in a heating zone to substantially 220° F. at which temperature a portion of the propane therein is vaporized, passing vapor and heated liquid from the heating zone into a distilling zone, flowing liquid from the distilling zone to another heating zone wherein said liquid is heated to substantially 320° F. at which temperature more of the propane in the liquid is vaporized, flowing residue liquid and vapor from said other heating zone into a lower part of the distilling zone, superheating said vapor in the distilling zone by spraying a portion of said residue liquid heated to substantially 320° F. into contact and direct heat exchange relationship with said vapor in an upper part of the distilling zone to cause suppression of foaming in the latter, and withdrawing vapor from the distilling zone after said vapor has passed in heat exchange relationship with the residue liquid.

2,669,540
PROCESSES EMPLOYING FLUENT SOLID PARTICLES
William W. Weinrich, Wallingford, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application April 29, 1950, Serial No. 158,984
11 Claims. (Cl. 196—52)



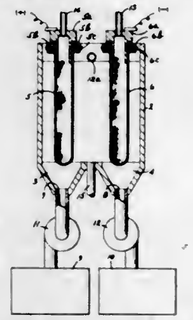
1. In a process in which fluent solid particles continuously circulate through a system comprising a downflow path for said particles and a confined upflow path through which said particles are elevated by a gaseous medium and are thereafter discharged therefrom into a separator of substantially greater cross-sectional area than that of said upflow path comprising a disengaging zone in the upper region thereof above the discharge level of said upflow path and a storage zone in the lower region thereof below said discharge level adapted to contain a compact non-turbulent bed of disengaged particles, and of sufficient volume to provide a surge capacity for said system when the circulation of said particles is such as to cause a rise and fall of the surface level of said bed, the method of depositing disengaged particles from said disengaging zone onto the surface of said bed which comprises collecting said particles at at least one level within said disengaging zone while said particles are falling freely after reversal of their upward movement, and passing said collected particles downwardly along at least one inclined path to said storage zone, said inclined path being horizontally unconfined along at least that portion thereof extending into the region occupied by said rising and falling bed of particles, whereby, when the level of said bed rises above the lower end of said inclined path said particles spill over the sides of said inclined path onto the surface of said bed.

2,669,541
EXTRACTIVE DISTILLATION
William E. Catterall, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 4, 1948, Serial No. 58,310
2 Claims. (Cl. 202—39.5)



1. The method of separating acetone from a mixture thereof with n-butyraldehyde, at least one non-alcoholic impurity (A) selected from the group consisting of propionaldehyde, methyl acetate, dimethyl acetal, isopropyl ether and low boiling saturated aliphatic hydrocarbons, and at least one alcoholic impurity (B) selected from the group consisting of methanol, ethanol and isopropanol which comprises continuously feeding the mixture to a fractional distillation zone at an intermediate point thereof, continuously adding sufficient water to the distillation zone at a point substantially above the mixture feed point to maintain an internal liquid water reflux having a water content in the range above 80 mole percent below the point of addition of the water, distilling from the acetone feed mixture a vaporous mixture comprising n-butyraldehyde and the impurities wherein the distilled vaporous mixture flows countercurrent to the aqueous liquid reflux, withdrawing n-butyraldehyde and impurity A as a distillate from the distillation zone and removing an aqueous solution of acetone and impurity B as bottoms from the fractional distillation zone.

2,669,542
ELECTROLYSIS OF SODIUM SULFATE
William P. Dooley, Dunbar, W. Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application March 30, 1950, Serial No. 152,860
2 Claims. (Cl. 204—93)



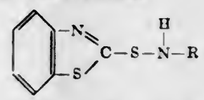
1. In the electrolysis of an electrolyte comprising an aqueous solution of sodium sulfate, the improvement which comprises subjecting the electrolyte to electrolysis in contact with a cathode constituted by a downwardly moving stream of an amalgam of mercury with copper, whereby the sodium ions liberated at the cathode are neutralized and form an amalgam with the stream, and with an anode constituted by a stream of a substance selected from the group consisting of mercury, lead amalgam, bismuth amalgam, and antimony amalgam, which form insoluble metal sulfates with the sulfate ions liberated at the anode moving downwardly in parallel relation to the cathode, whereby the sulfate ions are neutralized and precipitated in the form of an insoluble metal sulfate, and continuously withdrawing the neutralized sodium ions from the vicinity of the cathode in the form of a sodium-mercury amalgam, while simultaneously continuously withdrawing the precipitated metal sulfate from the vicinity of the anode.

2,669,543
LUBRICANT
Sabine Hirsch, Minneapolis, Minn., assignor to Cargill, Incorporated, Minneapolis, Minn., a corporation of Delaware
No Drawing. Application April 15, 1949, Serial No. 87,839
12 Claims. (Cl. 252—35)

1. A lubricant, comprising mineral oil, and a soap mixture formed by reacting a saponifying agent with the product, as such, resulting from the oxidation of heavier aliphatic hydrocarbons varying in consistency from liquid to solid at normal temperature and which have been oxidized to produce a saponification number of at least 155, and forming with the mineral oil a solid to semi-solid grease of a substantially stable consistency.

2,669,544
BENZOTHIAZYL SULFENAMIDES IN LUBRICANTS
Warren Lowe, Berkeley, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 17, 1951, Serial No. 256,948
10 Claims. (Cl. 252—47)

1. A lubricant consisting essentially of a major proportion of a silver corrosive sulfur-containing lubricating oil composition, and from about 0.01% to about 10%, by weight, of a benzothiazyl sulfenamide of the formula



wherein R is a radical selected from the group consisting of alicyclic and aliphatic radicals.

2,669,545
METHODS OF PREPARING FLOTATION REAGENTS
Frederick R. Archibald, Toronto, Ontario, Canada, assignor to United States Steel Corporation, a corporation of New Jersey
No Drawing. Application July 5, 1951, Serial No. 235,359
5 Claims. (Cl. 252—61)

1. A method of preparing pre-mixed flotation reagents, which consist essentially of collectors of the fatty acid type and colloidal silica in proportions of about 0.06 to 0.6 parts by weight of colloidal silica to one part by weight of collector on an anhydrous basis and have a mol

ratio of silica to alkali metals of at least 25 to 1, comprising treating sodium silicate and an alkali metal soap of an acid of the group consisting of higher fatty acids, resin acids, naphthenic acids and mixtures thereof, both in dilute water solution, with an acid type ion exchange medium which removes alkali metal ions therefrom.

2,669,546

DETERGENTS CONTAINING IMIDAZOLINE LACTATES

Hyman W. Zussman and Robert L. Bernstein, Providence, R. I., assignors to Alrose Chemical Company, Cranston, R. I., a corporation of Rhode Island

No Drawing. Application December 23, 1949, Serial No. 134,863

12 Claims. (Cl. 252—153)

1. A surface active compound which is the lactate salt of the imidazoline substituted in the 2-position by an alkyl group of seventeen carbon atoms, but whose 4 and 5 positions are unsubstituted.

6. A surface active composition comprising the lactate salt of an imidazoline which is substituted in the 2-position by an alkyl group of seventeen carbon atoms and is substituted in the 1-position by the hydroxyethyl group, but whose 4 and 5 positions are unsubstituted, and a polyhydric alcohol ester of a higher fatty acid, this last mentioned component being present in an amount sufficient to liquify the former and render it miscible with the chosen liquid selected from the group consisting of hydrocarbons and polychlorinated hydrocarbons.

2,669,547

GEL POWDER PREPARATION

Hubert A. Shabaker, Media, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 5, 1951, Serial No. 219,530

4 Claims. (Cl. 252—448)

1. In the production of ground gel powders of improved uniformity in size distribution, the method which comprises incorporating a minor portion of a dry powdered gel into a hydrosol from which the desired gel is to be set, said minor portion being incorporated in quantity sufficient to cause production of a relatively weak gel structure upon drying of the set gel and said minor portion consisting essentially of particles of at least 2 micron size and in the average size range desired for the ultimate powder product; setting the hydrosol containing the incorporated gel powder to hydrogel and drying the obtained hydrogel, thereby producing dried gel pieces of such relatively weak structure capable of being easily pulverized, and comminuting the dried gel pieces to a powder product of said desired average size range.

2,669,548

STABILIZED HALOGEN-CONTAINING RESINS

Joseph R. Darby, Richmond Heights, and Leo D. Frederickson, Jr., St. Louis, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application January 2, 1951, Serial No. 204,092

16 Claims. (Cl. 260—23)

1. A composition resistant to the discoloring effects of heat comprising 100 parts by weight of a halogen-containing resin and as a stabilizer therefor a mixture of 0.05 to 2 parts by weight of a zinc salt from the group consisting of zinc salts of organic acids and zinc salts of inorganic acids which give a non-acidic reaction in an aqueous medium and 1 to 10 parts by weight of a calcium chelate derivative of a 1,3-dicarbonylic compound capable of keto-enol tautomerism, the quantity of said zinc salt being smaller than the quantity of the said calcium chelate.

2,669,549

STABILIZED HALOGEN-CONTAINING RESINS

Joseph R. Darby, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 21, 1951, Serial No. 262,900

16 Claims. (Cl. 260—23)

1. A composition resistant to the discoloration effects of heat comprising a halogen-containing resin and as a stabilizer therefor in stabilizing amounts a mixture of a zinc salt, a calcium chelate derivative of a 1,3-dicarbonylic compound capable of keto-enol tautomerism, and an epoxy compound.

2,669,550

METHOD OF ELASTICIZING PLASTIC CARBOXYL CONTAINING SYNTHETIC POLYMERIC RUBBERY MATERIALS AND ELASTIC PRODUCTS PRODUCED THEREBY

Harold P. Brown, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application November 24, 1950, Serial No. 197,495

14 Claims. (Cl. 260—23.7)

1. The process which comprises preparing a mixture of (1) a plastic synthetic rubbery polymeric material comprising predominantly linear carbon chains to which are attached from 0.001 to 0.30 chemical equivalents by weight of combined —COOH per 100 parts by weight of polymeric material, said synthetic rubbery polymeric material being selected from the class consisting of polymers of an open-chain aliphatic conjugated diene, polymers of alkyl acrylates and polymers of isoolefins, (2) a polyvalent metal oxide and (3) an acidic substance selected from the class consisting of carboxylic acids and carboxylic acid anhydrides, said metal oxide and said acidic substance being present in amounts, respectively, equivalent to at least one-half and at least one-fifth of said combined —COOH of said polymeric material, and then heating the resulting plastic composition at a temperature of from 125 to 400° F. until said plastic composition has been converted to an elastic polymeric metallo-carboxylate by salt formation between the metallic cation of said metal oxide and the combined —COOH groups of the plastic polymeric material.

2,669,551

UREA-FORMALDEHYDE RESIN AND METHOD OF MAKING SAME

Thomas H. Vaughan, Hampton, S. C., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application January 9, 1953, Serial No. 330,578

4 Claims. (Cl. 260—29.4)

1. In the process of preparing a urea-formaldehyde resin in which there is reacted a ratio of 1 mole of urea, to 1.2 to 2.5 moles of formaldehyde, the steps comprising admixing with the formaldehyde an amount of caustic soda solution sufficient to adjust the pH of the formaldehyde to be within a range of from 9.20 to 9.50; heating the formaldehyde to quickly raise its temperature to substantially 150° F.; admixing at a rapid rate accompanied with rapid agitation, from 75% to 85% by weight of the total amount of urea that is to be reacted with the formaldehyde; adjusting the pH of the mixture of urea and formaldehyde, as soon as all the added urea is in solution, to be within a range of 9.2 to 9.5; boiling the mixture of urea and formaldehyde at atmospheric pressure for a period of time of from 15 to 60 minutes; quickly admixing with the boiling mixture of urea and formaldehyde at the end of the boiling period an amount of phosphoric acid sufficient to adjust the pH of the mixture to be within a range of from 4.55 to 4.75; continuing the boiling with continuing agitation for a period of substantially 12 minutes; quickly admixing at the end of the 12 minute period, with continuing agitation, caustic soda in an amount sufficient to adjust the pH of the mixture of urea and formaldehyde to from 7.2 to 7.8; quickly cooling the mixture of urea and formaldehyde, with continuing agitation, to a temperature of substantially 190° F. and thereafter admixing the remainder of the urea with the mixture of urea and formaldehyde, whereby a relatively stable aqueous resin solution is produced.

2,669,552

ACID-CATALYZED FURFURYL ALCOHOL RESIN BONDING MATERIAL

Raymond B. Seymour, Emmaus, and Robert P. Desch, Allentown, Pa., assignors to The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa., a corporation of Pennsylvania

No Drawing. Application October 18, 1951, Serial No. 251,994

2 Claims. (Cl. 260—37)

2. A mortar comprising a furfuryl alcohol-formaldehyde resin, and a powder including a finely divided inert filler, 2 to 10% by weight sulfamic acid and acidic material selected from the group consisting of 0.3 to 3% by weight of sulfuric acid, 1.5 to 7% by weight sodium bisulfate, 1.5 to 6% by weight para-toluene sulfonyl chloride and 0.75 to 4% by weight of an alkane sulfonic acid having two to fourteen carbon atoms, the ratio of powder to resin being in the range of from 2.5 to 1 to 1 to 1 by weight.

2,669,553

COPOLYMER OF A DIOLEFINE AND A KETONE

Gerson S. Schaffel, Cuyahoga Falls, and Kermit V. Weinstock, Akron, Ohio, assignors to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application August 19, 1949, Serial No. 111,344

24 Claims. (Cl. 260—41.5)

1. A method of curing a copolymer of a conjugated diolefinic compound of less than 9 carbon atoms and a copolymerizable acetyl aryl monoolefinic compound, which copolymer contains at least 40 per cent by weight of diolefinic compound comprising mixing said copolymer with hexamethylene tetramine and a material which provides a pH of less than 7 at curing temperatures and raising the temperature of said mixture to curing temperature and maintaining it at said temperature to cause reaction of said hexamethylene with said copolymer as evidenced by a change in plastic properties of said mix.

2,669,554

METHOD OF TREATING CASHEW NUT SHELL LIQUID WITH FLUOBORIC ACID

Clifford F. Armitage, South Orange, N. J., assignor to Colloid Chemical Laboratories, Inc., Cedar Knolls, N. J., a corporation of New Jersey

No Drawing. Application June 18, 1952, Serial No. 294,277

12 Claims. (Cl. 260—46)

1. The method which comprises mixing from about 0.25 to 2.50% by weight of fluoboric acid in aqueous solution with cashew nut shell liquid and heating the mixture.

2,669,555

HOMOPOLYMERS OF ALKYL N-SUBSTITUTED MALEIMIDES

John J. Giammaria, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application September 29, 1949, Serial No. 118,704

3 Claims. (Cl. 260—78)

1. As a new composition of matter, a homopolymer of an N-alkyl maleimide selected from the group consisting of a homopolymer of N-tetradecyl maleimide and a homopolymer of N-hexadecyl maleimide.

2,669,556

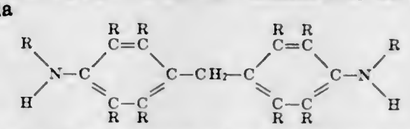
PROCESS FOR PREPARING BIS-(AMINO ARYL) METHANE POLYAMIDES

Carleton A. Sperati, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 24, 1953, Serial No. 338,597

6 Claims. (Cl. 260—78)

1. A process for preparing polyamide resins from alkanedioic acids and diamines of the formula



wherein R is a member of the class consisting of H-, and alkyl groups having from 1 to 3 carbon atoms, which comprises interacting equimolar quantities of these reactants in the presence of a catalytic quantity of litharge, and heating the resulting mixture in the molten stage until an ungelled polyamide is produced.

2,669,557

PROCESS FOR MAKING WATER-SOLUBLE SULFONATED VINYL AROMATIC RESINS

Robert M. Wheaton, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application January 21, 1953, Serial No. 332,550

6 Claims. (Cl. 260—79.3)

1. A process for making a water-soluble resinous product containing sulfonic acid radicals, which comprises heating an insoluble sulfonated cross-linked copolymer of a predominant proportion of at least one monovinyl aromatic hydrocarbon and from 0.25 to 20 per cent by weight

of at least one divinyl aromatic hydrocarbon, in admixture with an aqueous solution of nitric acid in concentration of at least 30 per cent by weight at a reaction temperature of from 90° to 120° C., whereby the insoluble sulfonated copolymer is dissolved and converted into a water-soluble sulfonated copolymer.

2,669,558

CYANO ETHER-ESTERS

David T. Mowry, Kirkwood, Mo., Eugene L. Ringwald, Decatur, Ala., and George L. Wesp, Englewood, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 17, 1951, Serial No. 262,157

17 Claims. (Cl. 260—88.7)

11. A polymer of a cyano ether-ester having the formula



in which R, R', R'', and R''' are selected from the class consisting of hydrogen and the methyl radical and n is an integer of from 1 to 3.

2,669,559

ION EXCHANGE PROCESS FOR SEPARATING PROTEINS

Allen F. Reid, Dallas, Tex.

No Drawing. Application July 6, 1951, Serial No. 235,557

6 Claims. (Cl. 260—112)

1. In a process of separating a protein from other proteins in an aqueous solution containing a plurality of proteins as solutes and also having a salt content present as cations and anions in a concentration rendering said first-mentioned protein soluble in said solution and in the absence of which cations and anions said protein is insoluble in said solution, another protein solute of said solution being soluble therein in the absence of said cations and anions in said concentration, the steps of providing a mixture of cation-exchange and anion-exchange resins conditioned to be in equilibrium with an ion concentration at which said solution-contained cations and anions are removed from said solution, passing said aqueous solution of said proteins and salt solute in contact with said cation-exchange resin and said anion-exchange resin adjusting the pH of the solution to substantially neutral in the range 6 to 8 between alkalinity and acidity by ion-exchange between said solution and said resins, removing from said solution said solubilizing cations by ion exchange with said cation-exchange resin to reduce said solubilizing cations and removing from said solution said solubilizing anions by ion exchange with said anion-exchange resin to reduce said solubilizing anions, and thereby precipitating said first-mentioned protein from said solution of said proteins, and separating said precipitate from said solution.

2,669,560

SULFURATION OF MINERAL OIL

Elmer H. Sperry, Drexel Hill, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

No Drawing. Application September 21, 1950, Serial No. 186,101

3 Claims. (Cl. 260—139)

1. The method of sulfurating mineral lubricating oil which comprises: contacting mineral lubricating oil in liquid phase at about 250–400° F. with elemental sulfur in the presence of elemental iodine.

2,669,561

COPPER COMPLEX COMPOUNDS OF MONOAZO DYESTUFFS

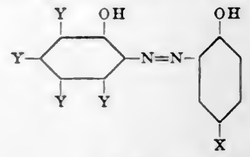
Albert Schmelzer, Koln-Mulheim, and Otto Bayer, Leverkusen-Bayerwerk, Germany, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany, a corporation of Germany

No Drawing. Application May 15, 1951, Serial No. 226,528

Claims priority, application Germany May 19, 1950

6 Claims. (Cl. 260—149)

1. As new products the copper complex compounds of monoazo dyestuffs of the general formula:



2,669,562

DIHYDROSTREPTOMYCIN TRI-(p-AMINOSALICYLATE) AND PROCESS OF PREPARING THE SAME

Armin G. Wilson, Newark, and Max Tishler, Westfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application December 10, 1948, Serial No. 64,708

2 Claims. (Cl. 260—210)

1. Dihydrostreptomycin tri-(p-aminosalicylate).

2,669,563

BISMUTH SALT OF PENICILLIN

Simon L. Ruskin, New York, N. Y.

No Drawing. Original application January 4, 1945, Serial No. 571,351. Divided and this application August 8, 1951, Serial No. 240,977

1 Claim. (Cl. 260—239.1)

A bismuth salt of penicillin.

2,669,564

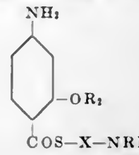
TERTIARY-AMINOALKYL 4-AMINO-2-ALKOXY-THIOLBENZOATES AND THEIR PREPARATION

Raymond O. Clinton, North Greenbush, and Stanley C. Laskowski, Menands, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application March 17, 1951, Serial No. 216,272

30 Claims. (Cl. 260—293.4)

1. A tertiary-aminoalkyl 4-amino-2-alkoxythiolbenzoate having the formula



where X is a lower alkylene radical having two to four carbon atoms, R and R_1 are lower alkyl radicals which can be joined to form a saturated N-heteromonocyclic radical having five to six ring atoms and R_2 is a lower alkyl radical having one to six carbon atoms.

3. A compound according to claim 1 where R and R_1 are each lower alkyl radicals having one to six carbon atoms.

2,669,565

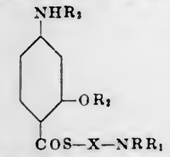
TERTIARY-AMINOALKYL 4-SUBSTITUTED-AMINO-2-ALKOXYTHIOLBENZOATES AND THEIR PREPARATION

Raymond O. Clinton, North Greenbush, and Stanley C. Laskowski, Menands, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application August 25, 1951, Serial No. 243,738

20 Claims. (Cl. 260—293.4)

1. A tertiary-aminoalkyl 4-substituted-amino-2-alkoxythiolbenzoate having the formula



where X is a lower alkylene radical having from two to four carbon atoms whose two free valence bonds are on different carbon atoms, NRR_1 is a member selected from the group consisting of lower dialkylamino, 1-piperidyl, (lower alkylated)-1-piperidyl, 1-pyrrolidyl, (lower alkylated)-1-pyrrolidyl and 4-morpholinyl, R_2 is a lower alkyl radical having from one to six carbon atoms and R_3 is a member of the group consisting of lower alkyl radicals having from one to six carbon atoms and lower hydroxyalkyl radicals having from two to six carbon atoms.

2,669,566

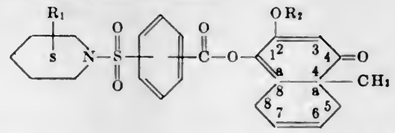
ESTERS OF ORGANIC CARBOXYLIC ACIDS

Quentin E. Thompson, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 7, 1951, Serial No. 260,566

12 Claims. (Cl. 260—293.4)

1. As new chemical compounds, optically active 4,4a,5,8 - tetrahydro - 2 - alkoxy - 4a - methyl - 4-oxo - 1-naphthyl alkyl-1-piperidylsulfonyl-benzoates having the formula



wherein R_1 and R_2 represent alkyl radicals containing from 1 to 5 carbon atoms and wherein the alkyl-1-piperidylsulfonyl radical is selected from the group consisting of 2-alkyl-1-piperidylsulfonyl and 3-alkyl-1-piperidylsulfonyl radicals.

2,669,567

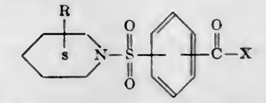
SUBSTITUTED BENZOYL HALIDES

Quentin E. Thompson, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 7, 1951, Serial No. 260,568

10 Claims. (Cl. 260—293.4)

1. As new chemical compounds, optically active (alkyl-1-piperidylsulfonyl) benzoyl halides having the formula



wherein the alkyl-1-piperidylsulfonyl radical is selected from the group consisting of 2-alkyl-1-piperdylsulfonyl and 3-alkyl-1-piperidylsulfonyl radicals, wherein R represents a lower alkyl radical and X represents a halogen.

2,669,568

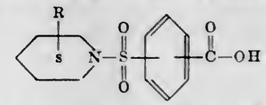
SUBSTITUTED BENZOIC ACIDS, THEIR SALTS AND ESTERS

Quentin E. Thompson, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 7, 1951, Serial No. 260,569

9 Claims. (Cl. 260—293.4)

1. As new compositions of matter, compounds of the group consisting of optically active (alkyl-1-piperidylsulfonyl)-benzoic acids, their metal salts, their ammonium and their substituted ammonium salts, said acids having the formula



wherein R is a lower alkyl radical and wherein the alkyl-1-piperidylsulfonyl radical is selected from the group consisting of 2-alkyl-1-piperidylsulfonyl and 3-alkyl-1-piperidylsulfonyl radicals.

2,669,569

PROCESS OF PRODUCING PHTHALOCYANINE PIGMENTS

Thomas D. Mutaffis, North Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 17, 1951, Serial No. 251,817

6 Claims. (Cl. 260—314.5)

1. The method of producing a tinctorially strong, metallized phthalocyanine pigment in a finely-divided pigmentary state which comprises subjecting a metallized phthalocyanine pigment to grinding in the presence of an organic liquid with a solid grinding aid having a surface area of at least 0.14 square meter per gram, the quantity of organic liquid present being sufficient to convert the pigment-grinding aid mixture to a doughy mass, and thereafter isolating the pigment from the ground mass.

2,669,570

PRODUCTION OF N-VINYL PYRROLIDONE

Arthur W. Schnizer, Corpus Christi, Tex., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application August 24, 1951, Serial No. 243,574

1 Claim. (Cl. 260—326.5)

Process for the production of N-vinyl pyrrolidone which comprises passing vapors of preformed N-beta-hydroxyethyl pyrrolidone at subatmospheric pressure below 100 mm. of mercury over activated alumina at a temperature of 300° to 340° C., said vapors being passed over said alumina at an hourly space velocity of 500 to 4000, and recovering N-vinyl pyrrolidone.

2,669,571

PROCESS FOR THE PREPARATION OF 3,12-DIHYDROXY CHOLENIC ACIDS AND THEIR ESTERS

Temple Clayton, Parsippany, Emanuel B. Hershberg, West Orange, and Bernard F. Schoen, Union City, N. J., assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application August 25, 1950, Serial No. 181,568

22 Claims. (Cl. 260—397.1)

1. Process for the removal of selenium from the selenium-contaminated dehydrogenated product of the reaction of a member of the group consisting of selenium dioxide and selenious acid on a keto steroid, comprising subjecting a solution of such contaminated product to the action of a Raney nickel catalyst until separation of the selenium from said product has been effected.

2,669,572

ALCOHOLYSIS OF LOWER FATTY ACID GROUPS IN POLYHYDROXY FATTY ESTERS

Roger L. Logan, Elkins Park, Pa., assignor to Kessler Chemical Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application November 22, 1950, Serial No. 197,180

9 Claims. (Cl. 260—406)

1. The method which comprises heating a polyhydroxy fatty acid of from 11 to 22 carbon atoms esterified by an aliphatic alcohol at the terminal group and esterified at a hydroxyl group with a lower fatty acid having from 1 to 5 carbon atoms, reacting the thus heated ester with a lower aliphatic alcohol in order to replace the lower fatty acid radical with a hydrogen atom without disturbing the terminal group.

2,669,573

BODYING CATALYSTS FOR DRYING OILS

Earl E. Parker, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application June 11, 1948, Serial No. 32,549

8 Claims. (Cl. 260—407)

1. A process of treating a drying glyceride oil which comprises heating the oil to bodying temperature in the presence of .05 to 3% of a catalyst consisting essentially of 9-anthrone until a desired increase of viscosity is attained.

2,669,574

ESTERS OF ORGANIC SULFONIC ACIDS

Quentin E. Thompson, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application February 15, 1952, Serial No. 271,847

11 Claims. (Cl. 260—456)

1. As new chemical compounds, 4,4a,5,8-tetrahydro - 2 - alkoxy - 4a - methyl - 4 - oxo - 1 - naphthyl esters of organic sulfonic acids, wherein said alkoxy group contains from 1 to 5 carbon atoms.

2,669,575

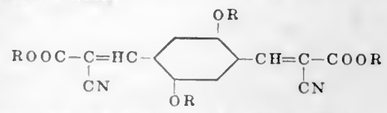
DIALKYL-α,α'-DICYANO-2,5-DIALKOXY-p-BENZENEDIACRYLATES

Nicholas W. Solonen and David I. Randall, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application September 4, 1951, Serial No. 245,074

4 Claims. (Cl. 260—465)

1. Dialkyl- α,α'- dicyano- 2,5- dialkoxy- p- benzenediacrylates characterized by the following general formula:



wherein the R's represent a lower alkyl group.

2,669,576

METHOD OF IMPROVING THE PROPERTIES OF CERTAIN EXPLOSIVES

Alfred T. Blomquist, Fred T. Fiedorek, and James F. Ryan, Jr., Ithaca, N. Y., assignors to the United States of America as represented by the Secretary of the Navy

No Drawing. Application December 30, 1944, Serial No. 570,807

11 Claims. (Cl. 260—467)

1. A method of purifying and stabilizing crude bis(2-nitroxyethyl)nitramine which comprises passing air through said crude material maintained in the molten state under water heated above the melting point of said nitramine but below about 95° C.; separating the molten nitramine from the water; adding to the molten nitramine a small proportion of an aromatic amine acceptor for oxides of nitrogen; forming a suspension of said molten nitramine in hot water; and then cooling said suspension until said molten Dina is crystallized.

5. In a method of purifying crude bis(2-nitroxyethyl)nitramine the step which comprises passing a gas comprising oxygen through said crude material maintained in the molten state.

2,669,577

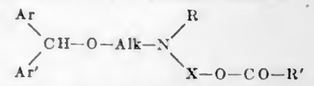
N-ACYLOXYALKYL SUBSTITUTED DERIVATIVES OF AMINOALKOXYDIARYLMETHANES AND SALTS THEREOF

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application September 16, 1950, Serial No. 185,319

10 Claims. (Cl. 260—477)

1. A member selected from the group consisting of esters of a diarylmethyl N-substituted aminoalkyl ether having the formula



and addition salts on the amino group thereof, wherein Ar and Ar' are monocyclic aromatic radicals, Alk and X are lower alkylene radicals, R is a member selected from the group consisting of hydrogen and lower alkyl radicals, and R' is a member selected from the group consisting of lower alkyl, lower carbalkoxyalkyl, and monocyclic aromatic hydrocarbon radicals.

2,669,578

TRIACETOXY TOLUENE

William S. Knowles, Kirkwood, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application April 20, 1951, Serial No. 222,147

4 Claims. (Cl. 260—479)

1. In a process for the preparation of triacetoxy toluene, the step comprising reacting p-toluquinone and acetic anhydride in the presence of sulfuric acid at a temperature below about 25° C.

2,669,579

PREPARATION OF DIACYLOXYDECADIENES

Richard S. Urban, Philadelphia, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application November 7, 1952, Serial No. 319,408

10 Claims. (Cl. 260—488)

1. A process for preparing a mixture of isomeric diacyloxydecadienes having the formulas,

$$R\text{-}COOCH_2\text{-}CH_2\text{-}CH{=}CH\text{-}CH_2\text{-}CH_2\text{-}CH{=}CH\text{-}CH_2\text{-}CH_2\text{-}OCOR$$

and

$$RCOOCH_2\text{-}CH_2\text{-}CH{=}CH\text{-}CH_2\text{-}CH(CH_2\text{-}CH_2OCOR)\text{-}CH{=}CH_2$$

in which R is a member of the class consisting of a hydrogen atom, a methyl group and an ethyl group, which comprises reacting a chloropentenyl ester of the formula,

$$RCOOC_5H_8Cl$$

in which R has the significance described above, in the presence of a solvent for the chloropentenyl ester, with finely divided iron at a temperature from 10° C. to the refluxing temperature of the reaction mixture, said iron being present in an amount equal to at least one-half mole per mole of said chloropentenyl ester.

2,669,580

MANUFACTURE OF p-ALKOXYSALICYLIC ACIDS

Robert S. Long, Bound Brook, N. J., and Nancy P. Buckwalter, Philadelphia, Pa., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 11, 1951, Serial No. 236,284

3 Claims. (Cl. 260—521)

1. A process of producing a p-lower alkoxysalicylic acid which comprises introducing simultaneously p-aminosalicylic acid and a nitrite into a lower alkanol solution of mineral acid maintained at a temperature greater than 60° C., the reaction mixture containing not more than 35% by weight of water based on the lower alkanol.

2,669,581

MANUFACTURE OF RESORCYLIC ACID

Mario Scalera, Somerville, and Sien Moo Tsang, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 27, 1951, Serial No. 239,020

4 Claims. (Cl. 260—521)

1. A single-step process of converting p-aminosalicylic acid to resorcylic acid which comprises adding an alkali metal nitrite and p-aminosalicylic acid simultaneously to a hot aqueous mineral acid solution maintained at a temperature above 60° C.

2,669,582

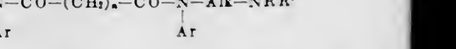
BASICALLY SUBSTITUTED AMIDES OF DICARBOXYLIC ACIDS

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application April 5, 1952, Serial No. 280,855

13 Claims. (Cl. 260—558)

1. An amide of the structural formula



wherein Ar is a member of the class consisting of lower aryl radicals containing 6 to 10 carbon atoms and lower aralkyl radicals wherein an aryl radical containing 6 to 10 carbon atoms is attached to the amido nitrogen through a lower alkylene radical, Alk is a lower alkylene radical containing at least 2 carbon atoms, R and R' are lower alkyl radicals, and n is a whole number between 0 and 8 inclusive.

2,669,583

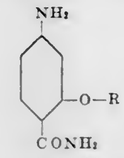
4-AMINO-2-ALKOXYBENZAMIDES AND THEIR PREPARATION

Raymond O. Clinton, North Greenbush, and Stanley C. Laskowski, Menands, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application March 10, 1951, Serial No. 215,005

12 Claims. (Cl. 260—559)

1. An amide having the formula



where R is a lower alkyl radical having from two to six carbon atoms.

2,669,584

SELECTIVE REDUCTION OF POLYNITRO AROMATICS

Edmund W. Lowe, Lafayette, Ind., assignor to Purdue Research Foundation, Lafayette, Ind., a corporation of Indiana

No Drawing. Application April 19, 1950, Serial No. 156,929

16 Claims. (Cl. 260—580)

1. A process for the selective reduction of polynitro monocyclic aromatic compounds carrying not more than three nitro groups on the benzene nucleus comprising adding an alkali metal sulfide to a solution of such a polynitro aromatic compound and removing alkali produced by said reduction at the rate necessary to maintain the reaction mixture alkaline and below approximately pH 8.5.

2,669,585

MANUFACTURE OF CHLORAL

Lloyd R. Coster, Pine Bluff, Ark., assignor to Food Machinery & Chemical Corporation, San Jose, Calif.

No Drawing. Application May 6, 1949, Serial No. 91,877

1 Claim. (Cl. 260—601)

The batch method of preparing chloral-hydrate of a purity such that it may be used directly in the manufacture of DDT which comprises adding chlorine gas in the absence of a chlorination catalyst to a starting composition consisting solely of ethyl alcohol in the range 95% to absolute alcohol until the specific gravity of the batch is at least 1.44, thereafter adding about 0.50 mole of water per mole of starting ethanol and chlorinating at a temperature higher than that in the first stage until a specific gravity of 1.54 in the batch is reached, then adding about 0.25 mole of water per mole of starting ethanol and chlorinating at a temperature higher than in the second stage and completing the chlorination when the specific gravity of the batch is 1.620 to 1.635 and the temperature 85° C. to 90° C. and withdrawing the chloral-hydrate so formed for use directly in the manufacture of DDT.

2,669,586

SELECTIVE OXIDATION PROCESS

William R. Middleton, Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Original application December 7, 1950, Serial No. 199,719. Divided and this application May 10, 1952, Serial No. 287,261

9 Claims. (Cl. 260—604)

1. In the method of oxidizing compounds having a radical selected from the group consisting of methyl and methylene radicals adjacent to an activating moiety selected from the group consisting of a center of unsaturation and a carbonyl group to convert said radical to a carbonyl group which comprises heating a compound having a group selected from the groups methyl and methylene adjacent to an activating moiety selected from the group consisting of a center of unsaturation and a carbonyl group in admixture with a gas containing free oxygen in the presence of a catalyst consisting predominantly of an oxide of tellurium to a temperature between the boiling point of said compound and the temperature at which said compound decomposes, the improvement which comprises employing a catalyst consisting essentially of about 1 to about 40 mole per cent of an oxide of metal of Group VI of the periodic table having an atomic weight of at least about 96 and an oxide of tellurium.

2,669,587

PROCESS OF MAKING BIS(BETA CHLORETHYL) SULFIDE

George E. Miller, Edgewood Arsenal, Edgar M. Faber, Baltimore, and Arthur M. Reeves, Havre de Grace, Md., assignors to the United States of America as represented by the Secretary of War

No Drawing. Application June 19, 1937, Serial No. 149,238

6 Claims. (Cl. 260—609)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. The process of making bis (beta chlorethyl) sulfide which comprises intimately contacting sulfur dichloride and ethylene at a pressure of from about 40 pounds to about 75 pounds per square inch.

2,669,588

PRODUCTION OF BIS(HYDROXYARYL) SUBSTITUTED COMPOUNDS

Philip H. Deming, Orinda, and Hans Dannenberg, Berkeley, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application October 17, 1951, Serial No. 251,832

9 Claims. (Cl. 260—619)

1. The process for the production of 2,2-di(4-hydroxyphenyl) propane which comprises introducing α,α-dimethylbenzyl hydroperoxide in controlled amounts into an admixture consisting essentially of phenol and a strong mineral acid at a temperature in the range of from about −20° C. to about +35° C. to obtain a mixture wherein the mole ratio of phenol to α,α-dimethylbenzyl hydroperoxide is at least 1, maintaining said mixture at a temperature of from about 0° C. to about 150° C., thereby effecting the reaction of a α,α-dimethylbenzyl hydroperoxide with phenol with the formation of reaction products comprising 2,2-di(4-hydroxyphenyl) propane and separating 2,2-di(4-hydroxyphenyl) propane from said reaction products.

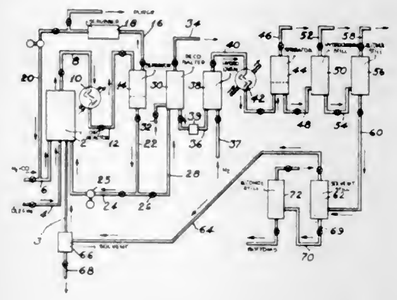
2,669,589

ALCOHOL SYNTHESIS

William E. Catterall, Elizabeth, and Stanley C. Lane, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application December 30, 1948, Serial No. 68,144

11 Claims. (Cl. 260—638)



1. In a continuous carbonylation process wherein olefins, carbon monoxide and hydrogen are contacted with a carbonylation catalyst in a carbonylation zone under conditions to produce oxygenated organic compounds containing at least one more carbon atom per molecule than said olefinic compounds, the improvement which comprises employing as diluent in said carbonylation zone a non-olefinic hydrocarbon material having an atmospheric boiling range lying above a lower limit of about $208+31n$, where the boiling range is expressed in degrees Fahrenheit and n, a number greater than 2, is the number of carbon atoms in the highest molecular weight olefin which is converted to a significant quantity of said oxygenated compounds, and wherein said diluent has a boiling range lying below an upper limit of about $174+58m$, where m, a number greater than 2, is the number of carbon atoms in the lowest molecular weight olefin converted to a significant quantity of said oxygenated compounds.

2,669,590

PRODUCTION OF FLUORINE COMPOUNDS

Charles B. Miller, Lynbrook, N. Y., and Lee B. Smith, Woodbridge, N. J., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application August 3, 1951, Serial No. 240,293

11 Claims. (Cl. 260—653)

1. The process of contacting a gaseous mixture of HF and a two carbon atom olefin containing the $=CF_2$ group with aluminum fluoride having crystallite size not substantially greater than about 500 Angstrom units radius at reactive temperature in the approximate range of 100–400° C.

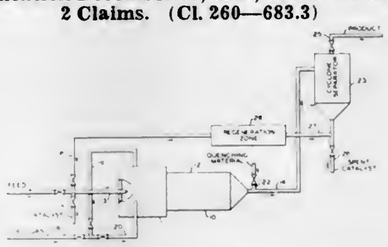
2,669,591

PROCESS FOR CONVERSION OF HYDROCARBONS WITH COMBUSTION GAS AND FINELY DIVIDED CATALYST

Harold J. Hepp, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 31, 1948, Serial No. 68,473

2 Claims. (Cl. 260—683.3)



1. In the art of catalytically converting hydrocarbons, the steps which comprise passing a stream of hydrocarbon feed containing finely divided hard, solid conversion catalyst in an axial direction at conversion conditions, concomitantly introducing into contact with said stream at the periphery thereof and in a direction tangent to said periphery a stream of hot combustion gases and maintaining same as a blanket spirally swirling around and moving longitudinally along with the axial stream of feed and catalyst thus transferring heat from said combustion gases while at their highest temperature to said feed and catalyst, then forcing said axially flowing stream and spirally flowing blanket to flow within a path of smaller total diameter than previously but without change in axial direction and continuing conversion of said hydrocarbons, then forcing said axially flowing stream and spirally flowing blanket to flow within a path of still smaller total diameter than previously but without change in axial direction, subjecting the resulting intimate mixture of conversion products, catalyst, and combustion gases to quenching as they enter said flowpath of still smaller total diameter, said quenching being within a period of time much shorter than the conversion period within said smaller diameter flow-path, separating catalyst from the quenched mixed conversion products and combustion gases, and recovering converted hydrocarbons from the resulting mixture.

2,669,592

LIGNIN-REINFORCED RUBBER

Donald Wesley MacGregor, Cornwall, Ontario, and Thomas Raymond Griffith, Ottawa, Ontario, Canada, assignors, by mesne assignments, to Howard Smith Paper Mills Limited, Montreal, Quebec, Canada

No Drawing. Application August 24, 1951, Serial No. 243,594

9 Claims. (Cl. 260—756)

1. A re-inforced vulcanizate prepared by vulcanizing a composition comprising coprecipitated natural rubber and lignin in the presence of an organic accelerator, sufficient activator selected from the group consisting of lead oxide and zinc oxide to activate said organic accelerator, sulphur and a modifier effective to inhibit the cure-delaying action of the lignin, and to substantially enhance the tensile strength and resilience of the said vulcanizate, said modifier being selected from the group consisting of the oxides of copper, lead and bismuth.

ELECTRICAL

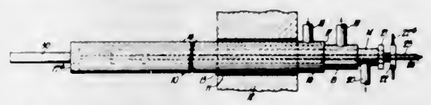
2,669,593

ASPIRATOR THERMOCOUPLE MOUNTING FOR MEASURING THE TEMPERATURE OF HOT GASES

Bernard M. Larsen, Fair Haven, N. J., assignor to United States Steel Corporation, a corporation of New Jersey

Application November 28, 1951, Serial No. 258,705

7 Claims. (Cl. 136—4)



1. A thermocouple mounting comprising a housing tube having a forward end and a rear end, a lead tube having an outside diameter smaller than the inside diameter of the housing tube extending into the rear end of the latter and thence to a point spaced inwardly from the forward end of said housing tube, a refractory tube having an outside diameter smaller than the inside diameter of the housing tube mounted coaxially therewith on the forward end of said lead tube and extending therefrom to a point adjacent the forward end of said housing tube, thermocouple leads extending through said lead tube and said refractory tube, said leads continuing forwardly to a point beyond the forward end of said refractory tube and there being united to form a hot junction, a metal sheath extending forwardly from the forward end of said refractory tube and enclosing said junction, and a shielding tube having an inside diameter larger than the outside diameter of said refractory tube, extending into the forward end of said housing tube and extending forwardly therefrom beyond said junction.

2,669,594

ELECTRICAL ACCUMULATOR

Henri Georges André, Montmorency, France, assignor to Yardney International Corp., New York, N. Y., a corporation of New York

Application March 28, 1952, Serial No. 279,200

Claims priority, application France March 30, 1951

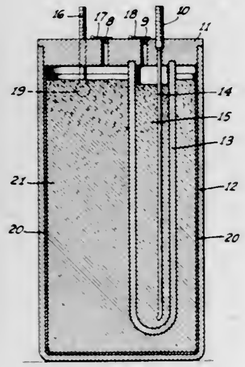
2 Claims. (Cl. 136—6)

1. A silver-zinc electric accumulator comprising a container, a positive silver electrode in said

container and a negative electrode in said container comprising filter-paper and a zinc negative substance retained in the interstices of said paper, a regenerated cellulose separator means interposed between said positive and said negative electrode, and an alkali electrolyte permeating said electrodes and said separator means, the respective dimensions of said electrodes and of said separator means on the one hand and of said container on the other hand being such that said positive electrode and said negative substance will be applied under pressure against said regenerated-cellulose separator means.



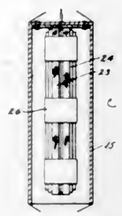
2,669,595
ALKALINE BATTERY
Wright W. Gary, Jr., Pasadena, Calif.
Application December 18, 1950, Serial No. 201,451
11 Claims. (Cl. 136—30)



1. A silver-zinc storage battery comprising a positive electrode having a nickel element, a negative electrode having a nickel element, a dialyzing membrane between said nickel elements, a silver oxide between said first nickel element and said membrane, zinc between said membrane and said second nickel element, and an electrolyte in which all of said elements are immersed, said electrolyte being potassium hydroxide, to which has been added an alkali-halogen compound.

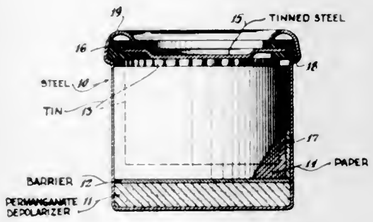
2,669,596
RESERVE BATTERY ENCLOSURE
Frank H. Nelson, Oreland, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application March 18, 1953, Serial No. 343,037
5 Claims. (Cl. 136—91)

4. In signal apparatus for marine use, a battery adapted for suspension from a float for energizing signal equipment on water immersion, said battery comprising a casing having fluid impervious top and side walls and an open base, means on said top wall for supporting said battery, at least one electrode unit fixedly suspended inside said casing from said casing top at a point providing open spaces between the electrode unit and casing side walls, said electrode unit having a center positive electrode, an absorbent fabric containing dispersed electrolyte



substances therein enclosing said positive electrode, a negative electrode enclosing said fabric in part, and support elements for holding said electrodes and fabric in fixed relationship.

2,669,597
ELECTRIC CURRENT PRODUCING CELL WITH TIN ANODE
Samuel Ruben, New Rochelle, N. Y.
Application September 12, 1951, Serial No. 246,259
6 Claims. (Cl. 136—100)

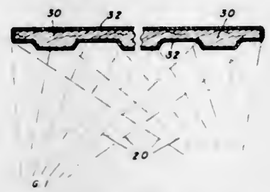


5. An electric current producing cell comprising an anode of extended area consisting preponderantly of tin, an oxygen producing cathode of which the active ingredients is a permanganate, and an electrolyte of potassium hydroxide.

2,669,598
PROCESS FOR MANUFACTURING POROUS CARBON ELECTRODES
Adolf Marko and Karl Kordesch, Vienna, Austria, assignors to Olga Burkli, née Bleuler, Zurich, Switzerland
No Drawing. Application May 14, 1952, Serial No. 287,812
Claims priority, application Austria March 24, 1949
7 Claims. (Cl. 136—122)

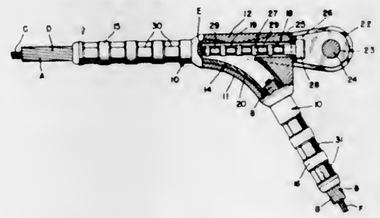
1. In a process for manufacturing porous carbon electrodes for use in oxygen depolarized primary cells the steps of impregnating porous carbon bodies with a solution of at least one heat-decomposable salt of a heavy metal selected from the group consisting of iron, cobalt, nickel, manganese, chromium, copper, silver, gold, platinum, vanadium, titanium, uranium, thorium and the rare earths, and of at least one heat-decomposable salt of aluminium, said salts being capable of acting as oxidising agent on the carbon, and heating the impregnated carbon bodies to temperatures adapted to decompose the said salts with the formation of catalysts within said carbon bodies.

2,669,599
STORAGE BATTERY PLATE SEPARATOR
Edward Clark, Chicago, Ill.
Application September 19, 1952, Serial No. 310,478
6 Claims. (Cl. 136—145)



1. A storage battery plate separator impermeable coating of vinyl chloride acetate copolymer applied under impact and having an applied thickness of approximately thirty five one thousandths of an inch.

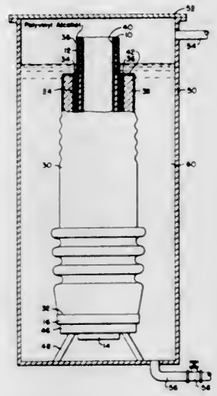
2,669,600
DEAD-END CONNECTOR
Martin D. Bergan, Westfield, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a corporation of New Jersey
Application July 20, 1948, Serial No. 39,676
17 Claims. (Cl. 174—94)



8. A connector including a tube of highly conductive workable metal of elbow form, a one-piece casting forming a suspensory including a rugged portion through which a portion of said tube extends with the ends of the tube projecting beyond said suspensory means, said suspensory means being bonded to the elbow tube, said ends of the tube having a continuous closed perimeter and being ductile and thus each fashioned to be crimped on to conductors introduced into the bore of the tube and said suspensory means also provided with an extension projecting integrally from said rugged portion and having a bolt hole therein adapted to receive means for suspending the connector from a support.

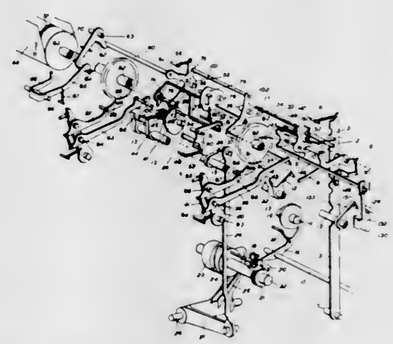
2,669,601
INSULATED BUSHING
John S. Johnson, Charles C. Sterrett, and Josephine R. Garber, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 19, 1950, Serial No. 180,352
11 Claims. (Cl. 174—152)

1. A bushing comprising, in combination, a stud, an insulating porcelain sleeve of a lesser length than the stud and disposed about the outside of the stud, a space being present along the full length between the porcelain sleeve and the stud, a wrapping of a tape applied to the stud to substantially fill the space for the entire length of the porcelain sleeve, the tape comprising mica flakes and a sheet backing, and a body of thermoset resin filling the entire space and solidly impregnating the tape whereby no voids are present between the stud and the porcelain sleeve, the resin comprising essentially the product derived



by polymerizing a completely reactive, thermosettable composition comprising a liquid monomeric compound having the group $H_2C=C<$.

2,669,602
PRINTING TELEGRAPH APPARATUS
Reginald Dennis Salmon, Leslie Stampe Munck, and Frederick James Leslie Turner, Croydon, England, assignors to Creed and Company Limited, Croydon, England, a British company
Application August 29, 1952, Serial No. 306,984
Claims priority, application Great Britain September 27, 1951
5 Claims. (Cl. 178—2)



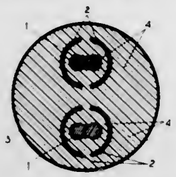
1. Page printing telegraph apparatus comprising means operative in response to a distinctive signal of a first kind to move the paper into a predetermined position, means normally operative in response to a distinctive signal of a second kind to release an answer-back transmitter and means operative when said second distinctive signal is received after said first distinctive signal and before the paper has been moved into said predetermined position to delay the release of said answer-back transmitter until the paper has been moved into said position.

2,669,603

TRANSMISSION LINE WITH MAGNETIC LOADING

Marie Pierre Prache, Versailles, France, assignor to Lignes Telegraphiques & Telephoniques, a corporation of France

Application December 29, 1951, Serial No. 264,207
Claims priority, application France
January 31, 1951
9 Claims. (Cl. 178—45)



1. A high frequency transmission line comprising a plurality of parallel cylindrical conductors, one at least of which has an elongated cross-sectional shape such that the longest diameter of its cross-section is at least equal to twice the shortest diameter of said cross-section, said transmission line further comprising magnetic circuit elements made of a material of high magnetic permeability and in the shape of solids bounded by a cylindrical surface and by two planes perpendicular to generatrices of said cylindrical surface, said magnetic circuit elements being arranged in the vicinity of said conductors in such a manner that generatrices of their cylindrical surface are parallel to generatrices of the cylindrical surfaces of said conductors and that each of said magnetic circuit elements partly surrounds one of said conductors of elongated cross-sectional shape, each said magnetic circuit element being at the same time arranged so as to leave at least one dielectric gap between itself and any other magnetic circuit element and in such a manner that it is very near to said one conductor of elongated cross-sectional shape in a region of maximum curvature of the periphery of the cross-section of the said one conductor and so as to be more remote from said one conductor in those of its parts which are nearest to a dielectric gap, and dielectric means for insulating said conductors and said magnetic circuit elements from each other.

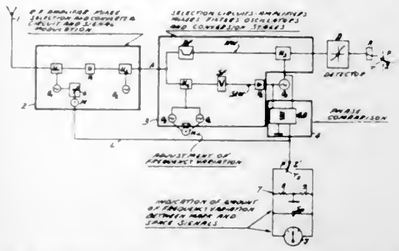
2,669,604

METHOD OF AND MEANS FOR DETERMINING DEVIATIONS IN THE AMOUNT OF FREQUENCY VARIATION BETWEEN TELEGRAPH TRANSMITTERS AND RECEIVERS

Hans Heuschmann, Berlin-Spandau, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Munich and Berlin-Siemensstadt, Germany, a German corporation

Application November 29, 1950, Serial No. 198,104
6 Claims. (Cl. 178—69)

3. In a receiver co-operating with a frequency-keyed transmitter which transmits thereto alternately different frequencies designating mark and space signal frequencies, respectively, apparatus for determining deviations in the amount of frequency variation between said signals and for adjusting said amount of frequency variation comprising means for producing from the alternately received signal frequencies a control frequency, means for producing a predetermined normal frequency, means for comparing said control frequency with said normal frequency to produce voltage values, a control device, said control device comprising accumulating means for receiving the electrical charges of said voltage values in a sequence which corresponds to the sequence of transmission of said mark and said space signal frequencies to produce corresponding control voltages, indicating



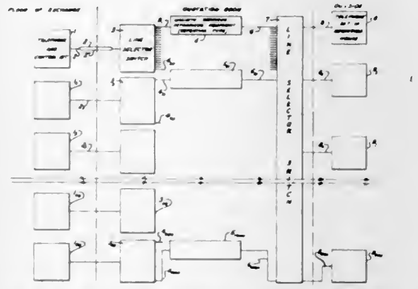
means adapted for receiving said control voltages and also adapted for indicating the direction of required adjustment of the amount of frequency variation in accordance with the polarity of said control voltages, and means for carrying out said adjustment.

2,669,605

COMMUNICATION SYSTEM UTILIZING MAGNETIC RECORDERS

George H. Lee, Troy, N. Y.

Application July 10, 1948, Serial No. 38,104
27 Claims. (Cl. 179—1)



1. In a telephonic communication system, in combination, a telephone line, a repeating type magnetic recorder having a recording head and a transmitting head and a movable magnetic medium operatively associated with said heads, circuit means for coupling the input of said recording head and the output of said transmitting head to said telephone line, said circuit means including a switch for uncoupling the output of said transmitting head from said telephone line, and means for continuously driving said magnetic medium irrespective and independently of the presence of any voltage signal across said telephone line.

2,669,606

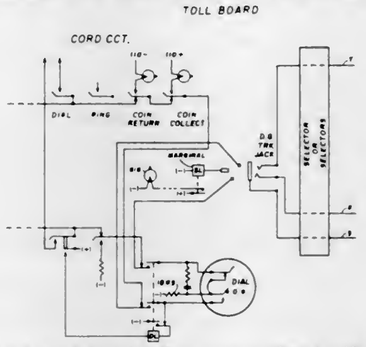
AUTOMATIC TOLL TRUNKING SYSTEM

Frank Kessler and William W. Pharis, Rochester, N. Y., assignors to Stromberg-Carlson Company, a corporation of New York

Application October 16, 1950, Serial No. 190,366
4 Claims. (Cl. 179—6.3)

1. In a telephone system, a toll office, a local office, a line terminating at said local office, a paystation on said line including a coin receptacle and a coin disposal means associated therewith, a toll switching trunk connecting said local office with said toll office, a source of coin control

current at said toll office, a source of coin control current at said local office, a relay at said local office, a signal at said toll office, means at said toll office for connecting the coin control current source thereat to said trunk, means responsive to the connection of said source to said trunk for causing current from said source to be transmitted over said trunk to said local office,



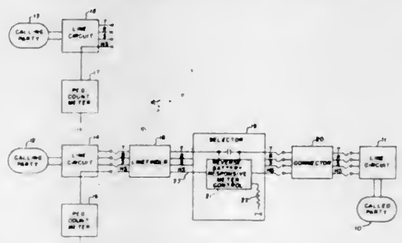
means at said local office responsive to the current transmitted over said trunk for connecting the coin control current source at said local office in series with said relay to said line to effect the operation of said coin disposal means at said paystation, and means controlled by said relay for operating said signal until said coin disposal means has disposed of the coin in said receptacle.

2,669,607

AUTOMATIC TELEPHONE SYSTEM SELECTOR WITH MESSAGE RATE METER CONTROL

William W. Pharis, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York

Application October 11, 1952, Serial No. 314,365
6 Claims. (Cl. 179—8)



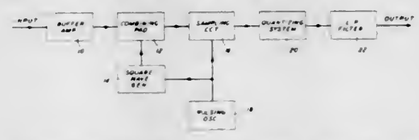
1. In an automatic telephone system having a plurality of calling lines and line circuits for each calling line together with one or more linefinder selector links, the selectable connections between each line circuit and the linefinder selector link including tip, ring, sleeve and fourth control conductors, the system being arranged to reverse connections of the talking battery to the tip and ring conductors when the called party answers to complete a call, the apparatus for indicating the number of chargeable completed calls from each line circuit comprising, a source of power, a peg-count meter for each line circuit having an operating coil connected in series with the fourth control conductor of each line circuit and one terminal of said source of power, a condenser in series with one of the tip and ring conductors in each of said linefinder selector links, a rectifier connected in parallel with said condenser and having a polarity of connections such that the rectifier presents low impedance to the passage of said talking battery direct current before its reversal when the called party answers, and a relay connected in parallel with said rectifier and condenser, said relay being adapted to be operated when said talking battery connections are reversed and said rectifier presents a high impedance to the passage of the reversed battery direct current, said relay having contacts to be operated to connect the fourth control conductor in each link to the other terminal of said source of power to thereby energize the operating coil of the peg-count meter of the line circuit selectably connected with the linefinder selector link to indicate a completed call through such calling line circuit.

2,669,608

NOISE REDUCTION IN QUANTIZED PULSE TRANSMISSION SYSTEMS WITH LARGE QUANTA

William M. Goodall, Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 27, 1950, Serial No. 192,578
9 Claims. (Cl. 179—43.5)



1. An intelligence transmission system of the type in which the original signal to be transmitted is converted first by an amplitude sampling circuit into a pulse-amplitude modulated signal, which pulse-amplitude modulated signal is then converted into a pulse-code modulated signal by an amplitude quantizing system, the latter signal being transmitted to a distant receiving point at which point it is decoded by said quantizing system to reconstruct said pulse-amplitude modulated signal which last-mentioned reconstructed signal can then be employed to recreate a virtual replica of said original signal, and means for adding at a point on the input side of the quantizing circuit of said system a square wave having an amplitude of substantially one half the amplitude of a quantizing step of said amplitude quantizing system and a frequency which is independent of the signal to be transmitted and is at all times substantially one half the sampling frequency of said amplitude sampling circuit, said means comprising a square wave generator the output of which is added to said original signal prior to its introduction into said quantizing circuit, and means for synchronizing said square wave generator to one half the sampling frequency of said sampling circuit.

2,669,609

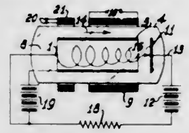
ELECTRON DISCHARGE DEVICE

Ernest G. Linder, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application October 30, 1948, Serial No. 57,428
8 Claims. (Cl. 179—171)

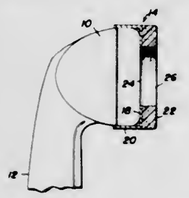
1. An electron discharge device comprising: a concentrated radioactive charged particle emission source, a cylindrical anode, the said source being positioned adjacent said anode, a collector electrode also positioned adjacent said anode and

substantially separated from said source, an electric source connected to said collector electrode, an envelope surrounding said emission source, said collector and said anode, a dense ionizable gas confined within said envelope, connections for a source of direct current, connections for a source of varying currents, and a solenoid surrounding and coaxial with said anode, a portion



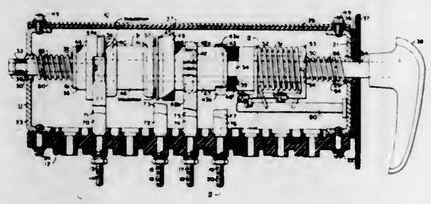
of said solenoid being connected to said direct current source connections and a portion to said varying currents source connections, whereby the changes in the magnetic field produced by said solenoid correspond in characteristics to said varying currents and a varying magnetic field is impressed on said medium along the axis of said anode.

2,669,610
SANITARY ATTACHMENT FOR TELEPHONES
Harold F. Dent, Folcroft, Pa.
Application January 3, 1952, Serial No. 264,764
1 Claim. (Cl. 179—185)



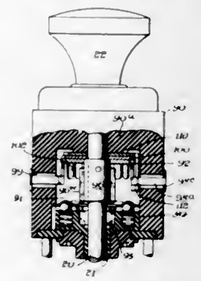
A sanitary attachment for telephones comprising a cup adapted to be disposed over a receiver of a telephone, said cup having a bottom wall including an outer surface, a sponge layer carried by the bottom wall of the cup on said outer surface, aligned openings through the bottom of the cup and the sponge layer, said sponge layer and said cup being formed of a fibrous material and being disposable, said cup having side walls being crimped so as to be adapted to resiliently engage the receiver of a telephone.

2,669,611
ELECTRICAL CONTROL SWITCH
Walter P. Silvius, Murrysville, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 22, 1950, Serial No. 175,408
5 Claims. (Cl. 200—4)



1. A switch comprising, a support, contacts mounted on said support, contact actuating means mounted for rotatable and longitudinal movement on said support and biased to normally occupy a neutral position intermediate the extremes of its longitudinal and rotative positions on the support, said contact actuating means having means for closing different circuits through said contacts in accordance with movement in opposite directions of rotation from said neutral position and opposite directions longitudinally from said neutral position, respectively, notched pin means secured to the support, and notched flange means secured to the contact actuating means, said notched pin means and said notched flange means cooperating to so control the movement of the contact actuating means that the contact actuating means must pass through said neutral position when changing between rotational and longitudinal movement.

2,669,612
SELECTOR SWITCH WITH STEY-BY-STEP CONTROL
David W. Johnson, Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut
Application November 8, 1951, Serial No. 255,343
18 Claims. (Cl. 200—4)

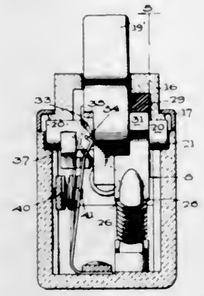


1. In an electric switch, a shaft, means for manually moving said shaft rotatively and axially, fixed means to lock said shaft against rotation when the shaft is in one axial position, positioning means fixed on the shaft and engageable with said locking means in said axial position but released from the locking means in another axial position of the shaft permitting rotation of the shaft, fixed and movable contact means, means operated by rotation of the shaft to operate said contact means selectively as said shaft is rotated into angularly spaced positions, and means operating on rotation of said shaft from one angular position to another to stop the rotation in said other position, said shaft being rotatable beyond said other position on movement of said shaft to cause release of said stopping means.

2,669,613
CAM SWITCH
Victor R. Despard, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Syracuse, N. Y., a corporation of New York
Application July 23, 1951, Serial No. 238,054
6 Claims. (Cl. 200—6)

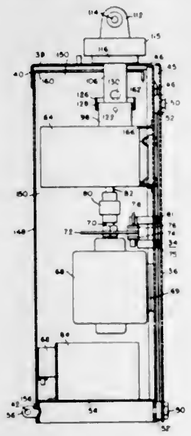
6. In a switch of the single pole, double throw type, in combination, a housing, an operating lever assembly trunnioned for limited oscillation therein, an over-center spring adjacent one side of and associated with said lever-assembly to hold it in definite "off" and "on" positions, a pair of face cams on the other side of said assembly oppositely disposed about the axis of trunnioning, a pair of stationary contacts supported by said

housing, mating movable contacts one for each stationary contact, a leaf spring cantilevered from the housing for each movable contact and supporting the same intermediate the spring ends and urged toward open circuit position, each spring being in a plane substantially parallel



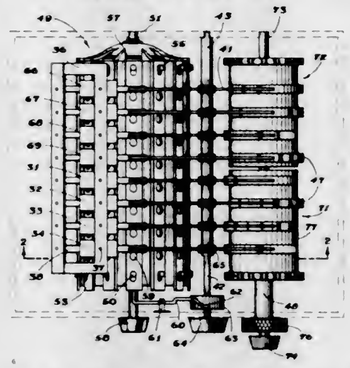
to the plane of movement of said cams and with its free end positioned to be engaged by one of said cams at one of its limits of movement to flex the spring into contact engaging position, and means connecting the contacts of one pair together and forming a terminal for the same.

2,669,614
SWITCH OPERATING MECHANISM
James B. Owens, East McKeesport, and Earl F. Beach, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 3, 1949, Serial No. 125,208
15 Claims. (Cl. 200—17)



1. Switch operating mechanism comprising, a housing formed in part by an openable cover, an operating shaft extending through a wall of said housing, a motor and speed reducing means driven thereby mounted in said housing, manually operable means confined entirely in said housing for releasably coupling said operating shaft and said speed reducing means, and means associated with the portion of said operating shaft located within said housing for manually operating said shaft while the shaft is uncoupled from the speed reducing means, said openable cover giving access to said manually operable means for the coupling and to said means for manually operating the shaft.

2,669,615
SHAFT CONTROL MECHANISM
Robert T. Cox, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application July 7, 1951, Serial No. 235,630
7 Claims. (Cl. 200—18)

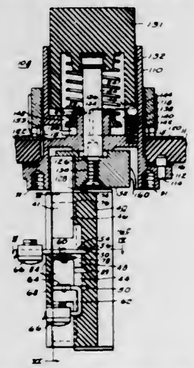


2. Apparatus for controlling the setting of a plurality of control switches comprising, a selector drum rotatably supported by a shaft, a knob connected to one end of said shaft, a plurality of strips mounted longitudinally about the periphery of said selector drum and formed with a plurality of key-hole shaped openings, a plurality of pins supported in said selector drum with a pin beneath each key-hole shaped opening, flexible means urging said pins outwardly, a collar formed on said pins of a size large enough to be engaged by the small portion of the key-hole openings but small enough to go through the large portion of the key-hole shaped openings, said strips movable longitudinally of the selector drum, multiple spring means urging said strips to a pin locked position, a plurality of cantilever springs supported adjacent the selector drum with their free ends engageable with one row of said pins, a controlled switch mounted adjacent each of said cantilever springs and engageable therewith so that they may be opened or closed in response to the position of said pins, a cam shaft with an off-center portion rotatably mounted adjacent said selector drum, a plurality of pawls rotatably supported on the off-center portion of said cam shaft and having one end engageable with said pins in the cam down position, a tuning drum rotatably supported adjacent said cam shaft and carrying a plurality of set-up discs thereon, and the other end of said pawls engageable with said set-up discs.

2,669,616
ELECTRIC SWITCH
Stanley L. Frank, Beaver, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 9, 1947, Serial No. 772,938
12 Claims. (Cl. 200—18)

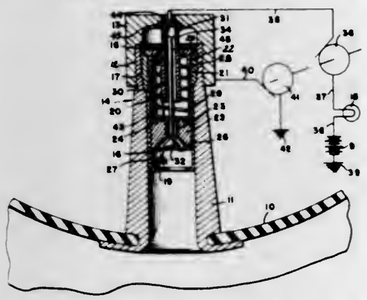
12. Control switch structure comprising two sets of spaced stationary contact means, a reciprocable contact carrying member for each of said sets of contact means movable into and out of engagement with the contact means of its respective set of contact means, actuating means for said members comprising an actuating rod mounted for rotary and longitudinal sliding movement in a direction paralleling the direction of reciprocable movement of said members, fixed stop means limiting outward movement of said

rod, an operating member secured to the outer end of said rod for both rotating and reciprocating the rod, cylindrical cam means carried by said rod facing said members, said members being biased toward said cam means, and said cam means having a recess at one side so that at one angular position of said rod the member opposite the recess of said cam means is moved to the extreme of its movement under the influence of its bias while the other member is held at a position intermediate the stationary contact means of its set of contact means by direct engagement with said cam means and can be actuated into engagement with one of its associated stationary contact means by reciprocable movement of said rod, while at another angular position of said rod



said other member will be positioned opposite the recess of said cam means and moved to the extreme of its movement under the influence of its bias and the first mentioned member will be held at a position intermediate the stationary contact means of its set of contact means by direct engagement with said cam means and can be actuated into engagement with one of its associated stationary contact means by reciprocable movement of said rod, and cooperating stop means on said rod and a stationary support, respectively, including angularly spaced stop members for limiting rotative movement of said rod, and said respective stop means having longitudinally extending slidably engageable surfaces at the limiting positions to limit rotative movement of the rod during reciprocation thereof.

2,669,617
INDICATOR FOR PNEUMATIC TIRES
Vernon O. Sletten and Charles C. Bowman, Havre, Mont.
Application June 22, 1950, Serial No. 169,663
5 Claims. (Cl. 200—61.25)



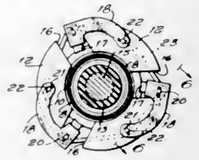
1. In a pressure responsive switch for a tire deflation signal, a conductive sleeve located within the tire valve stem forming a fixed contact, a movable contact disposed within the sleeve and normally maintained out of circuit closure with the sleeve by the tire pressure, spring means cooperating with said movable contact tending to urge the movable contact into engagement with an internal flange within the sleeve, conducting wires for the fixed and movable contacts and complemental means on the sleeve and the valve stem to retain the sleeve and movable contact within the valve stem, the inflation path for the tire extending internally of the sleeve and through the movable contact and through an axial opening of the internal flange of the sleeve.

2,669,618
SNAP-ACTION DEVICE
Caton Bradley, Durham, Conn., assignor, by mesne assignments, to The Sessions Clock Company, a corporation of Connecticut
Application March 4, 1950, Serial No. 147,605
10 Claims. (Cl. 200—67)



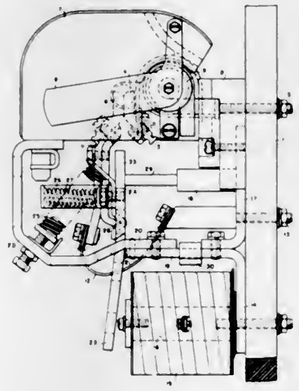
1. A snap-action device comprising a strip of spring material slotted longitudinally to form a plurality of laterally-spaced reaches joined integrally at their opposite ends to the corresponding ends of the strip, one of said reaches being substantially flat throughout a major portion of its length and having a single pre-set curvature offset from the plane of said strip and eccentric to a point substantially intermediate the opposite ends thereof; and mounting means to which said strip is secured at a point substantially intermediate its opposite ends to cause said ends to project outwardly in opposite directions in unsupported condition from such point, whereby snap-action movement of one of said unsupported ends is effected in a direction substantially perpendicular to the plane of said strip by the application of a force at the opposite unsupported end of said strip in the direction of said offset and substantially perpendicular to the plane of said strip.

2,669,619
CENTRIFUGAL SWITCH
Erich Mittelsten Scheid, Wuppertal-Barmen, and Paul Preis, Wuppertal-Elberfeld, Germany
Application May 12, 1950, Serial No. 161,548
Claims priority, application Germany May 27, 1949
16 Claims. (Cl. 200—80)



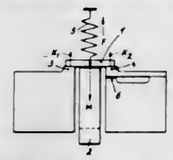
14. A centrifugal switch, comprising, in combination, a stationary switch member; a rotating switch member having a flange; a centrifugal pendulum electrically connected to said rotating switch member and having two oscillating legs adjoining, respectively, the sides of said flange so as to be guided by the same over almost the entire length of said legs so that the latter remain, respectively, substantially in their plane of oscillation; and a contact element arranged on said centrifugal pendulum, said contact element being in contact with said stationary switch member when said centrifugal pendulum is subjected to a centrifugal force being below a predetermined limit, said contact element being out of contact with said stationary switch member when said centrifugal pendulum is subjected to a centrifugal force being larger than said predetermined limit.

2,669,620
ELECTROMAGNETIC CONTACTOR
Fletcher E. McLane, Lancaster, and Bruce C. Wells, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 28, 1951, Serial No. 258,598
4 Claims. (Cl. 200—87)



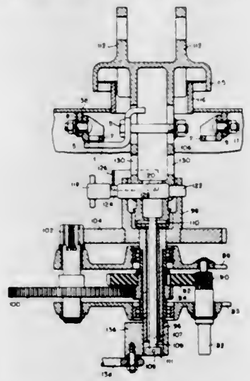
1. In an electromagnetic contactor device, a magnetizable field structure having a core portion and an arm portion extending substantially parallel with each other, an armature pivoted on the arm portion and having two arms of which one forms a main flux path together with the core portion and the arm portion, a stationary contact, a movable contact mounted on the other arm to cooperate with the stationary contact, a spring biasing the armature toward closed position of the contacts, a coil disposed on the core portion for moving the armature toward open position of the contacts in opposition to the biasing spring when the coil is energized, a magnetizable member disposed between the field structure and said other arm of the armature and spaced from the core portion to form an auxiliary flux path together with said other arm for exerting magnetic pull on the said other arm in the biasing direction of the biasing spring, the member extending parallel to the core portion and having a higher magnetic reluctance than the core portion, the member thus being adapted to saturate when the attractive force of the core portion exceeds a given value sufficient to move the armature toward open position of the contacts against the spring bias and magnetic pull, and a closed current conducting loop around part of the arm portion in the main flux path to delay movement of the armature until the flux reaches its steady state value.

2,669,621
CONTACT DEVICE FOR SYNCHRONOUS SWITCHES
Paul Duffing, Berlin-Siemensstadt, Germany, assignor to Siemens-Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany
Application May 8, 1951, Serial No. 225,228
7 Claims. (Cl. 200—91)



1. A synchronous contact device for interrupting alternating current near the current zero moment, comprising a magnetizable contact bridge movable between make and break positions, countercontacts engaged by said bridge in said make position, a magnet having a field traversing said bridge when said bridge is in said make position for forcing said bridge against said countercontacts, said magnet having pulse-responsive coil means for weakening said field to release said bridge, said countercontacts being elastically deflective and having an elastic reaction force in balance with the force of said magnet when said bridge is in said make position so as to provide substantially all of the force needed for moving said bridge to said break position upon receipt of a current pulse by said coil means.

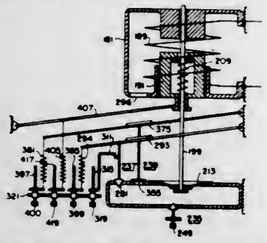
2,669,622
SWITCH OPERATING MECHANISM
James B. Owens, East McKeesport, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 3, 1949, Serial No. 125,209
13 Claims. (Cl. 200—92)



5. Motor operating mechanism for switches comprising, an upright housing, an output shaft for the mechanism projecting through the top wall of said housing, a motor operated gear train in the upper part of said housing having a hollow output shaft aligned with said mechanism output shaft and extending both above and below said gear train, manually operable means for releasably coupling said output shafts, and said mechanism output shaft having a portion extending freely through said gearing output shaft, control switch means in said housing below said gear train, and means for selectively mechani-

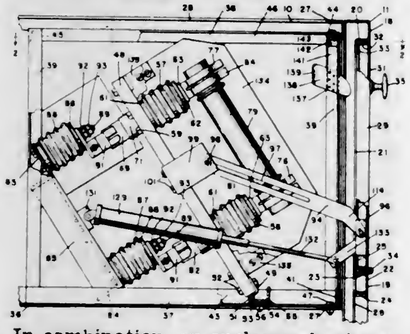
cally operating said control switch means from the lower end portions of either of said output shafts.

2,669,623
CIRCUIT BREAKER
John B. MacNeill, Wilkinsburg, Fritz E. Florschutz, Forest Hills, Ture Lindstrom, Edgewood, and Bernard G. Tremblay, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 28, 1950, Serial No. 141,136
22 Claims. (Cl. 200—108)



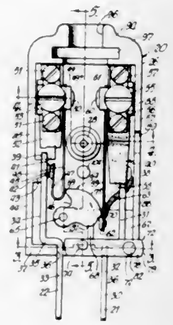
3. In a circuit breaker, an electromagnetic trip device operable to effect automatic operation of said breaker, said trip device comprising a movable member, an energizing winding, an armature operable upon energization of said winding to actuate said movable member, a time delay element for retarding tripping movement of said movable member having a chamber, a first valve means for admitting fluid to said chamber at a predetermined rate to retard tripping movement of said movable member with a relatively long time delay, adjusting means for adjusting said first valve means to vary the rate of admission of fluid to said chamber to thereby vary the amount of time delay provided by said first valve means, a second valve means operable automatically by said electromagnetic trip device in response to predetermined abnormal circuit conditions to increase the rate of admission of fluid to said chamber to retard tripping movement of said movable member with a relatively short time delay, and separate magnetic means for operating said second valve means.

2,669,624
SAFETY SWITCH AND FUSE CONSTRUCTION
John S. Ferguson, Glenview, Ill., assignor to Electric Machinery Manufacturing Company, Minneapolis, Minn.
Application July 24, 1952, Serial No. 300,736
15 Claims. (Cl. 200—114)



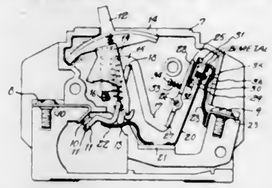
1. In combination, an enclosure having an access opening therein, a door for said opening pivoted to said enclosure near an edge thereof and adapted to swing outwardly from said opening, a fuse carrier separate from said door disposed inwardly of said opening and pivoted to a part fixed relative to said enclosure and movable toward and from said opening, a fuse carried by said fuse carrier and having a fuse contact, an electrical terminal disposed inwardly of said access opening and fuse, a terminal contact connected to said terminal and adapted to make contact with the fuse contact when the fuse carrier is in its innermost position and to become disconnected therefrom when the fuse carrier is moved toward said opening, said carrier being of substantially the same area as the area of said access opening and serving to close said opening when the fuse contact is disconnected from the terminal contact, and linkage between said fuse carrier and door, said linkage bringing said carrier into closing position when the door is in open position.

2,669,625
THERMOSTATIC SWITCH
Ray J. D. Roberts and Alfred H. Faulkner, Chicago, Ill., assignors to Charles D. Hummel, Sr., New York, N. Y.
Application June 9, 1952, Serial No. 292,416
17 Claims. (Cl. 200—115.5)



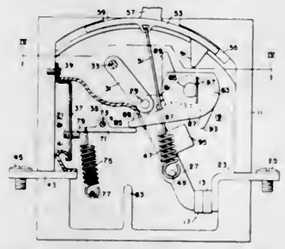
1. A thermostatic switch comprising an insulating casing, a thermostatic element fixed in position at one end relative to the casing and extending in one direction from said one end and having a latching projection at the other end, a stationary contact supported in a fixed position relative to the casing, a movable contact, a resilient arm carrying the movable contact at one end thereof and at a position aligned for engagement with the stationary contact, means supporting the other end of the arm at a fixed position relative to the casing and so that the normal resilience of the arm tends to keep the movable contact out of engagement with the stationary contact, the arm extending generally in said one direction from one end to the other, and a latch element mounted for rotational movement relative to the casing and having a contact actuating portion engageable with the arm and a latch portion displaced angularly and linearly from the contact actuating portion, said latch portion of the latch element being releaseably engageable with the latching projection on the thermostatic element to hold the contact actuating portion against the arm so as to hold the movable contact in engagement with the stationary contact.

2,669,626
ELECTRIC CIRCUIT BREAKER
Raymond N. Rowe, Plainville, Conn., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application March 31, 1951, Serial No. 218,647
12 Claims. (Cl. 200—116)



1. In a circuit breaker, a tripping member, a movably mounted latching member for said tripping member, a bimetal buckling member mounted on said latching member, and an overload actuated member having means for transmitting heat to said buckling member, both said buckling member and said overload-actuated member tending to retract said latching member from said tripping member in response to a rise in temperature.

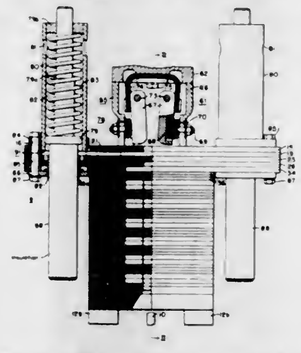
2,669,627
CIRCUIT BREAKER
Francis L. Gelzheiser, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 12, 1952, Serial No. 281,981
11 Claims. (Cl. 200—116)



1. A circuit breaker comprising stationary and movable contacts, a movable switch actuating member for actuating said movable contact, a link having one end pivotally mounted on a fixed pivot and the other end pivotally connected to one end of said switch actuating member to form a toggle, a trip member normally supporting said toggle in operative position, an operating handle movable to an open position and to a closed position, an overcenter spring operatively connected between said handle and said switch actuating member, said overcenter spring being operable by said handle to cause opening and closing movement of said switch actuating member, a stored energy device releasable to actuate said trip member to a position to permit collapse of said toggle and automatic opening of said contacts, and a trip device operable to effect release of said stored energy device.

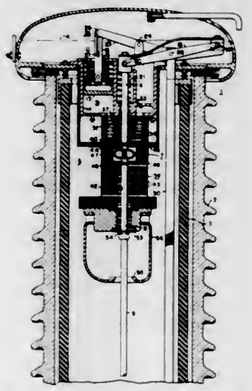
2,669,628
LIQUID BREAK CIRCUIT INTERRUPTER
Roswell C. Van Sickle, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 5, 1950, Serial No. 136,931
15 Claims. (Cl. 200—150)

2. A circuit interrupter of the liquid break type including means at least partly of insulating material defining an elongated arcing slot, contact means for establishing an arc along said slot, venting means disposed along one side of the arcing slot, magnetic means for biasing the arc laterally within the arcing slot toward said venting means, piston means including a pair of pistons disposed on opposite sides of the arcing slot



movable during the opening operation independently of the contact means for forcing liquid into the arcing slot adjacent one end thereof and toward said venting means, and the piston means forcing liquid to flow longitudinally along the slot in the direction of arc lengthening at the point where the arc is initially established.

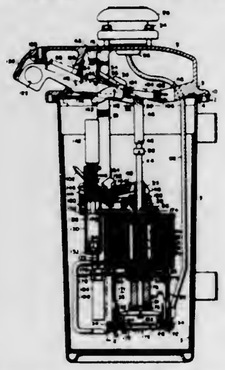
2,669,629
CIRCUIT INTERRUPTER
John B. MacNeill and Winthrop M. Leeds, Pittsburgh, and Benjamin P. Baker, Turtle Creek, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 22, 1950, Serial No. 175,375
21 Claims. (Cl. 200—150)



1. A circuit interrupter including an arc extinguishing unit, a movable contact movable adjacent one end of the unit, an operating rod for actuating said contact movable longitudinally of the unit, a movable disconnect contact movable adjacent the other end of the unit, an operating mechanism including a rotatable operating lever, the operating lever being rotatable about a substantially fixed pivot adjacent one end thereof, means connecting the movable disconnect contact with the operating lever, an actuating lever, means connecting the operating rod with the actuating lever so as to constantly move therewith, means independent of the actuating lever

for effecting motion of the operating lever, and a pin secured to and movable with the operating lever to cause rotation of the actuating lever during the closing operation.

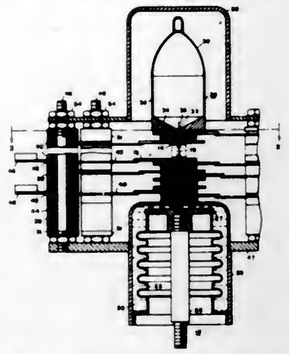
2,669,630
CIRCUIT INTERRUPTER
Alert M. Opsahl, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 5, 1950, Serial No. 177,826
16 Claims. (Cl. 200—150)



2. A circuit interrupter of the liquid break type including an arc extinguishing chamber immersed in an arc extinguishing liquid comprising a tubular member, a pair of stationary contacts supported on the side walls of the tubular member, a pair of movable contacts separable away from the stationary contacts to establish a pair of arcs within the tubular member, and a relatively stationary end plate of insulating material partially enclosing one end of the tubular member and having a cutout portion for each stationary contact, each cutout portion spacing the end plate away from the respective stationary contact by a gap distance in liquid to minimize insulation breakdown between the stationary contacts when the interrupter is in the open circuit position.

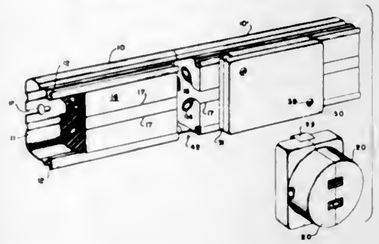
2,669,631
SWITCHING APPARATUS
Kirk A. Oplinger, Verona, and Ralph O. McIntosh, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 13, 1952, Serial No. 271,342
3 Claims. (Cl. 200—152)

1. In a regulator switch, in combination, a plurality of contact members insulated from one another and sealed in a stack of predetermined height, the stack having a passageway extending longitudinally therethrough, an upper mercury container disposed at and opening into one end of the passageway and a lower mercury container opening into the other end of the passageway, means disposed in the lower container responsive to predetermined conditions to cause the mercury to rise in the passageway to interconnect the contact members in the stack, the passageway having a diameter of not more than 0.094 inch to enable the mercury to bridge all of the contact members and thus obtain a predetermined speed in the functioning of the regulator switch, and a member which has a smaller diameter than the passageway and which is disposed in the passageway so as to protrude into the upper mercury container in order to break up any of the mercury in the upper container of greater diameter than



0.094 inch and thus permit its passage into the passageway.

2,669,632
BUS DUCT SWITCH
Herman J. Hammerly, Plainville, Conn., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application April 16, 1949, Serial No. 87,949
1 Claim. (Cl. 200—163)

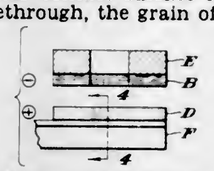


In a bus duct system, a sectioned sheet metal duct of U-shaped cross section having sides that terminate in curled tracks, an insulating filler in said duct having recesses for receiving elongated split tubular conductors, said insulating filler having closed slots which connect to said recesses, said insulating filler and said split conductors of one section of duct separated by a substantial opening from the insulating filler and split conductors of another abutting duct section, said split conductors extending to but not into said opening, and a slidable coupling having flanged surrounding strips along the edge of said coupling for slidably engaging said curled track and conductor plates for slidably engaging the split conductors of the abutting duct sections, said coupling slidable to one position for covering said opening and electrically connecting the said split conductors of the abutting duct sections and to a second position for uncovering said opening and electrically isolating an abutting duct section.

2,669,633
AUTOMOTIVE IGNITION CONTACT POINT
Frank W. Hartman, Jr., Detroit, Mich., assignor to Holley Carburetor Company, Detroit, Mich., a corporation of Michigan
Application August 22, 1952, Serial No. 305,720
4 Claims. (Cl. 200—166)

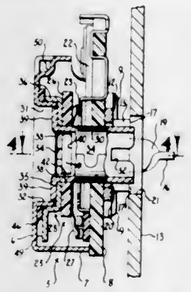
1. In a high tension ignition system for internal combustion engines including a circuit

breaker having a fixed contact support and a movable contact support, the improvement comprising; a pair of sintered metal contacts carried by said contact supports, said contacts comprising a first disc shaped contact having a substantially planar contact surface and a central aperture therethrough, the grain of the sintered



metal in said first contact being parallel to its contact surface, and a second solid disc shaped contact having a substantially planar contact surface for contact with the contact surface of said first contact, the grain of the sintered metal in said second contact being perpendicular to its contact surface.

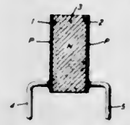
2,669,634
PRESET ELECTRICAL CONTROL INSTRUMENTALITY WITH PLUG-IN SHAFT
Arthur M. Daily and Mervin B. Arisman, Elkhart, and Donald A. Pierce, South Bend, Ind., assignors to Chicago Telephone Supply Corporation, Elkhart, Ind., a corporation of Indiana
Application January 8, 1953, Serial No. 330,304
12 Claims. (Cl. 201—55)



1. In an electrical control instrumentality of the character described: a housing having opposing front and rear walls in fixed spaced apart relationship, said walls having coaxial holes therein; a rotatable contact assembly in the housing intermediate its front and rear walls, said contact assembly including a contact carrier adjacent to the front wall of the housing, a driver for said carrier having a hollow hub journalled in said hole in the front wall of the housing to mount the contact assembly for rotation in the housing about an axis which coincides with that of said holes; and means on said driver, engageable by a tool applied thereto from the exterior of the housing either at its front or at its rear, providing for manual rotation of the contact assembly in the housing.

2,669,635
SEMICONDUCTIVE PHOTOELECTRIC TRANSDUCER
William G. Pfann, Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 13, 1952, Serial No. 320,317
6 Claims. (Cl. 201—63)

1. A photoelectric translating device comprising a body of semiconductive material having therein a zone of first conductivity type between and contiguous with a pair of zones of a second conductivity type, terminal connections to said outer zones, and means for causing light to be absorbed within a distance of no more than one diffusion length from a junction of at least one of said outer zones with said middle zone, said light being of a frequency range of a minimum



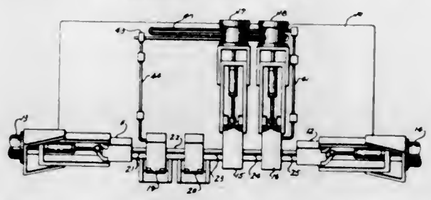
wavelength of about 100 angstroms and of a maximum wavelength corresponding with about the average bandwidth of the forbidden region of the semiconductive material, the shortest route between the two regions of the second conductivity type through the region of first conductivity type being at least about two absorption lengths.

2,669,636
SHEATHED ELECTRIC HEATER INSULATING MATERIAL
William T. Rawles, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application May 21, 1951, Serial No. 227,384
5 Claims. (Cl. 201—66)



5. A sheathed electrical heating element including an embedding material comprising a compressed, binder-free, granular mixture of 20 to 40 per cent granular fused magnesia, balance at least one granular material of the group consisting of (1) zirconium silicate and (2) mixtures of zirconium silicate and silica of a particle size less than 80 mesh and at least 80 per cent thereof being of a particle size less than 100 mesh, said magnesia having a particle size such that prior to reduction of the sheath of said heating element at least about 22 per cent of the magnesia is retained on a 60-mesh screen and all passes through a 40-mesh screen.

2,669,637
METHOD AND APPARATUS FOR FORMING CRANKSHAFTS
Arnold Pitt, Weston, Ontario, and Lorne F. Knight, Toronto, Ontario, Canada, assignors to Massey-Harris Company Limited, Toronto, Ontario, Canada
Application August 31, 1950, Serial No. 182,438
5 Claims. (Cl. 219—3)



1. The method of simultaneously heating a plurality of deformable regions of a metal rod or bar at the same heating rate, comprising the steps in combination of: clamping the rod at

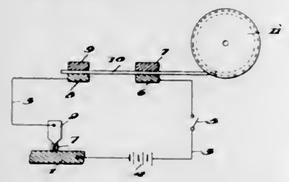
points between and beyond the selected deformable regions thereof, passing an electrical current through the rod from one endmost clamped point to the other endmost clamped point, to cause the deformable regions thereof to be heated; and reducing the heating rate of certain of said deformable regions to equalize the heating rate of all of the deformable regions at a value corresponding to that of the deformable region having the slowest rate of heating, by electrically shunting said certain deformable regions.

2,669,638

ARRANGEMENT FOR MEASURING ELECTRIC ENERGY IN SHORT DURATION TIME INTERVALS

Karl J. Aversten, Lidingo, Sweden, assignor to Svenska Aktiebolaget Gasaccumulator, Lidingo, Sweden, a corporation of Sweden

Application March 13, 1950, Serial No. 149,434
Claims priority, application Sweden December 16, 1949
2 Claims. (Cl. 219—4)



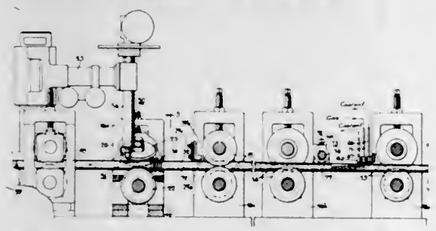
1. An arrangement for determining the time for arc welding during short time intervals comprising, a welding circuit, a fusible conductor disposed in said circuit, means for supplying electric energy to said circuit so that all electric energy supplied for welding will pass through said conductor, said conductor having a resistivity and being dimensioned so as to reach, after the passage therethrough of the electric energy for welding, a temperature sufficient to cause rupture by melting, and two pairs of contact-making blocks, each pair being adapted to grip said conductor, and one of said pairs being adapted to exert a smaller gripping pressure than the other pair and being displaceable relative thereto, so as to vary the spacing between said pairs of blocks.

2,669,639

METHOD AND APPARATUS FOR THE PRODUCTION OF WELDED TUBING

Howard J. Bowman, East Troy, Wis., assignor to Trent Tube Company, East Troy, Wis., a corporation of Wisconsin

Application February 29, 1952, Serial No. 274,249
12 Claims. (Cl. 219—6)



7. A method for producing welded tubing from metal strip having rounded edges in transverse section, said method comprising: continuously feeding said strip in the direction of its length while progressively shaping the same into tubular configuration until the opposed strip edges converge to a junction to form a continuous seam; heating said strip edges adjacent said junction to welding temperature by induced high frequency currents, and thereupon pressing said edges sufficiently together at said junction to weld the midsections thereof while slightly upsetting the remaining edge portions so as to form upset portions on opposite sides of said midsections, said portions being separated by a crevice, and thereupon flowing said upset edge metal into said crevice by further heating interiorly and exteriorly of said tubing until a weld joint is formed which is substantially flush with the internal and external surfaces of said tubing.

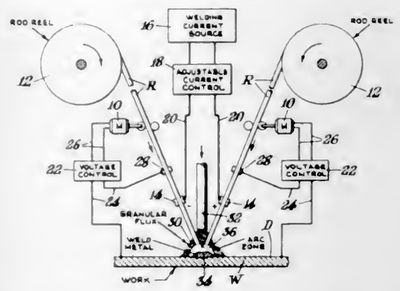
9. Apparatus for producing welded tubing from elongated metal strip, comprising: a series of forming rolls and final squeeze rolls together with means mounting the same in tandem for progressively forming said strip into tubular configuration until the opposed edges thereof converge into abutment in said squeeze rolls, thereby to form tubing having a continuous seam; means for progressively feeding said strip through said rolls; a high frequency induction heating coil and means mounting the same for axial traverse by said tubing substantially at the entry to said squeeze rolls; a pair of high frequency induction focusing coils and means mounting the same, respectively, interiorly and exteriorly of said tubing along said seam on the delivery side of said squeeze rolls.

2,669,640

SUBMERGED-MELT ELECTRIC SERIES-ARC WELDING

Frederick G. Outcalt, New Rochelle, and Edward L. Frost, Snyder, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application May 22, 1950, Serial No. 163,508
6 Claims. (Cl. 219—10)



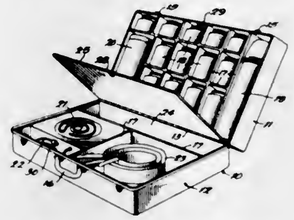
4. Process of submerged-melt electric series-arc welding which comprises depositing a single bead of metal on a metallic workpiece under flux, by relatively moving electrodes and the workpiece along the path to be welded, separately feeding such electrodes toward a common welding zone on the workpiece at rates which are individually governed by the voltage drop between each of such electrodes and the workpiece, supplying arc welding current only through such electrodes, the workpiece being excluded from the arc welding current circuit except in the immediate area of the welding zone, whereby a single layer of metal is welded on the workpiece with a minimum amount of penetration and dilution.

2,669,641

FOOD CARRYING AND PREPARATION CASE

Charles H. Becker, Ironwood, Mich.

Application November 29, 1950, Serial No. 198,127
1 Claim. (Cl. 219—19)



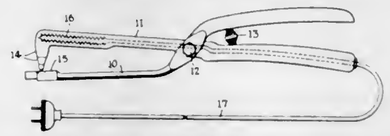
A portable food case, comprising two complementary receptacles having side and bottom walls with an open top, said receptacles being of substantially the same size to extend upwardly an equal distance when lying side-by-side, hinge means connecting said receptacles along the top of corresponding sides and thereby allowing said receptacles to be folded together to form a closed case, partitions secured within said receptacles to form open-topped compartments, one of said compartments having heating means permanently mounted therein and providing a heating surface disposed generally parallel to the bottom wall of said compartment and accessible through the open top of said compartment, and a sheet of insulating fire-proof material hinged between said receptacles and seatable alternately on top of both of said receptacles to provide a closure selectively for either of said receptacles when said case is open with said receptacles in side-by-side relation, said sheet being dimensioned and arranged to cover all of the compartments in each of said receptacles when seated thereon, whereby contact with said heating surface is prevented when said sheet is seated on the receptacle containing said heating means.

2,669,642

ELECTRICALLY HEATED MARKING DEVICE

Lillian L. Menges, Fullerton, Calif.

Application November 13, 1951, Serial No. 256,004
2 Claims. (Cl. 219—21)



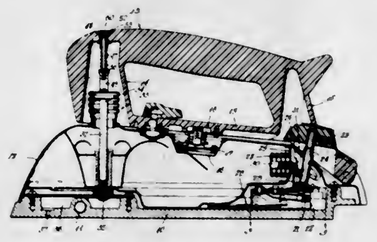
1. An electrically heated marking tool for use in transferring pattern markings to one or more layers of piece goods in a semi-permanent fashion, comprising in combination: a plier-like tool having jaw portions and handle portions pivotally connected intermediate their ends; spring means for normally biasing said jaw and handle portions to their open position; a male and female die removably secured in cooperative relationship to said jaw portions, so that when they are brought together with one or more layers of cloth therebetween, the male die forces a small area of the cloth into the female die at selected points corresponding to indicia markings on the pattern, said male die comprising a single rounded knob-like projection and said female die comprising a single dimple depression corresponding in shape but slightly larger than said male die; and electrical heating means carried by one of said jaw portions to heat one of said die members; whereby a semi-permanent deformation, conforming in size and shape to the mating portions of the die members, is formed in the cloth upon operation of the tool.

2,669,643

SAFETY DEVICE FOR STEAM IRONS

Arthur A. Johnson, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut

Application September 1, 1949, Serial No. 113,537
10 Claims. (Cl. 219—25)



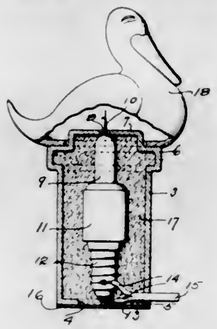
1. An electric steam iron having a sole plate provided with steam vents; an electrically energized steam generator in communication with said vents; a thermostatic switch for controlling the heating of the steam generator to produce steam for discharge through said vents, the normal operating pressure of said steam in the generator depending upon the discharge rate through the vents; and means independent of the operation of said thermostatic switch and responsive to excessive pressure of the steam in said generator, for de-energizing the steam generator when the steam pressure therein abnormally rises above said normal operating pressure.

2,669,644

HOLE ENLARGER FOR NURSING NIPPLES

Mayo R. Wetzel, Salt Lake City, Utah

Application July 10, 1951, Serial No. 235,915
5 Claims. (Cl. 219—29)



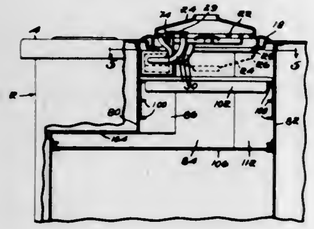
1. A portable implement of the class described having a hollow self-supported base with a removable bottom, a centrally apertured top for the base, an electric heater unit within the base extending from a point contiguous to the bottom upwardly away from the bottom, a needle on the heater unit projecting upwardly through the aperture of the top and an insulating packing within the base around the heater unit.

2,669,645

AUXILIARY BROILING UNIT FOR RANGES

Frank H. Schneider, Gardner, Mass., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts

Application September 25, 1951, Serial No. 248,193
5 Claims. (Cl. 219—35)



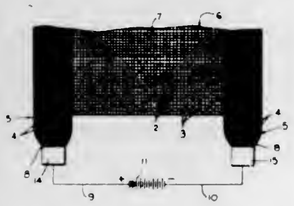
4. An electric range having a plurality of electric heating elements positioned for use as surface cooking elements, one of said elements being adapted in addition for use as a broiling element, the one said surface cooking and broiling element being located at the front of the range and substantially flush with the range top and directly above a small broiling compartment comprised of walls depending from said range top and segregating said compartment from adjacent areas under the other surface cooking elements, the one said surface cooking and broiling element being pivotally related to said range whereby said element can be swung upwardly above said range top, a reflector pan selectively positioned below the one said cooking and broiling element for surface cooking and above the one said cooking and broiling element for broiling, said reflector pan being removable from surface cooking position when said cooking and broiling element has been swung upwardly, a door for closing the front of said compartment and a removable cooking pan in said compartment.

2,669,646

ELECTRICALLY CONDUCTIVE MATERIAL

Charles J. Ford, Akron, Ohio, assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, a corporation of Ohio

Application January 20, 1950, Serial No. 139,551
1 Claim. (Cl. 219—46)



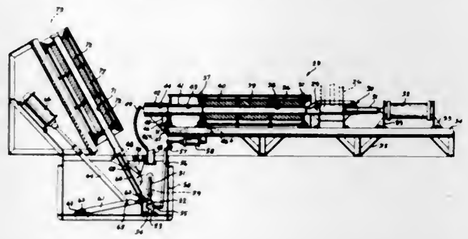
An electrically conductive material comprising a woven fabric of normally non-conductive warp and woof threads with certain of the warp threads in at least two spaced mutually parallel areas of the fabric adjacent the edges thereof being replaced by substantially continuous fine wires having electrically conductive properties to form a composite fabric with integrally formed strips of metal therein; and a uniform coating of an electrically conductive metal extending over both the non-conductive threads and the conductive wires in the composite fabric.

2,669,647

DUAL FREQUENCY INDUCTION HEATING APPARATUS

Robert Sidney Segsworth, Toronto, Ontario, Canada, assignor to The General Engineering Company (Canada) Limited, Toronto, Ontario, Canada

Application June 13, 1952, Serial No. 293,274
8 Claims. (Cl. 219—10.71)



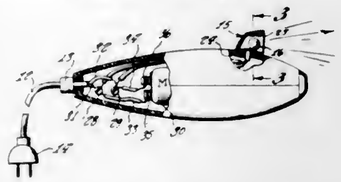
1. Apparatus for heat treating a shell case comprising in combination: a stationary horizontally disposed induction heating coil including means for energizing same; means for passing a shell case through said coil; a swingable induction heating coil having an exit end and supported in coaxial alignment with said stationary coil; means swingably supporting said swingable coil for swinging movement between said coaxial position and a downward substantially vertical position thereof; cooling means disposed below said swingable coil including a support; and means for guiding a shell case to said support as said case falls from the exit end of said swingable coil upon moving the latter to substantially the vertical position.

2,669,648

ELECTRIC SHAVER LIGHT ATTACHMENT

Charles A. Radcliff, Ashland, Oreg.

Application July 29, 1950, Serial No. 176,753
1 Claim. (Cl. 240—2)



An electric light attachment for an electric shaver having a casing, comprising a hood open at the front and having a bottom portion, contact terminals mounted on the said shaver casing, leads in the said shaver casing permanently connected to the said contact terminals, the said bottom portion having openings receiving the said contact terminals, the latter being disposed spaced apart from each other along a line extending in longitudinal direction of the said hood and constituting the sole securing means for the said hood to the electric shaver, a conducting bracket for mounting the said light, a lamp bulb extending laterally from the said conducting bracket and within the said hood, insulating means supporting the said conducting bracket, a first light terminal extending from the said conducting bracket and a second light terminal extending through the said insulating means and supported thereon, the said conducting bracket constituting a single element for conducting the current to the said light and to

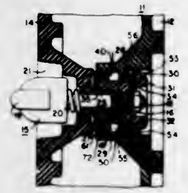
simultaneously support the same, and the said contact terminals contacting with the corresponding first and second light terminals when plugging in.

2,669,649

SAFETY HOUSING FOR ELECTRICAL APPARATUS

Benjamin C. Webster, Southport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a corporation of Connecticut

Application May 7, 1949, Serial No. 91,888
9 Claims. (Cl. 240—11.4)



7. An electrical safety unit for transformer-operated gaseous electric discharge lighting systems, comprising, in combination, a closed housing having relatively movable portions for admitting access to the inside thereof; at least one lampholder within said housing for receiving transformer secondary current supply and the end of a gaseous electric discharge lamp, an opening in said housing of a size to receive one end of a gaseous electric discharge device for engagement with said holder; an electrical switch inside said housing and including, separate terminals for transformer primary circuit connection, and controller means respectively supported by said relatively movable housing portions for coming apart with the same, said controller means being permanently movably mounted in and extending through its housing portion so as to be operative from outside said housing for effecting electrical connection and disconnection of said switch terminals with the housing portions closed; and locking means for preventing access to the inside of said housing while said switch is closed.

2,669,650

MAGNETIC TROUBLE LAMP ASSEMBLY

Edward J. Smith, Clifton, N. J.

Application July 8, 1949, Serial No. 103,549
3 Claims. (Cl. 240—52.15)



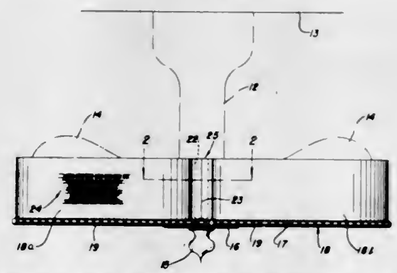
2. An improved trouble lamp assembly including in combination, a magnetic base unit comprising a generally U-shaped permanent magnet having a non-conductive sheathing of substantially uniform thickness covering the outer perimeter and said faces of the magnet with the magnetic end faces exposed for attachment to a metallic supporting surface, a lamp socket unit, a non-conducting socket retainer unit for containing said socket unit, a bracket unit connecting said socket retainer unit and its associated lamp socket unit to said magnetic base unit, a protector plate shaped to cover the magnetic attaching ends of the magnet unit, a flexible tie element for connecting said protector plate to said bracket unit, and a suspension hook extending from said protector plate by means of which the trouble lamp assembly may be suspended when the protector plate is magnetically held to the exposed end faces of the magnet.

2,669,651

PLANAR TRANSLUCENT LIGHT SHADE

Glenn E. MacFadden, Rocky River, Ohio, assignor to John C. Virden Company, Cleveland, Ohio, a corporation

Application November 21, 1950, Serial No. 196,894
1 Claim. (Cl. 240—108)



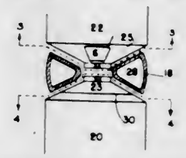
A gallery-type light shade construction adapted for inexpensive fabrication and quick assembly comprising a flat piece of translucent material having a support receiving hole in its center and a peripheral edge, an upstanding gallery bounding said edge and comprising at least one strip piece bent about an axis parallel to its short dimension to conform along its lower long edge to the shape of said peripheral edge, clip fastening means in engagement with the ends of said at least one strip piece to fasten said ends together, said at least one strip piece having formed along its said lower long edge an integral depending lip passing outwardly, downwardly and inwardly around and engaging said peripheral edge whereby said shade may be readily assembled without any additional fastenings by conforming said strip to said peripheral edge, fitting said lip over said edge and fastening said clip means.

2,669,652

MEANS FOR IMPROVING THE YIELD FROM BETATRON X-RAY GENERATORS

Gail D. Adams and Donald W. Kerst, Urbana, Ill., assignors to the United States of America as represented by the Secretary of the Navy

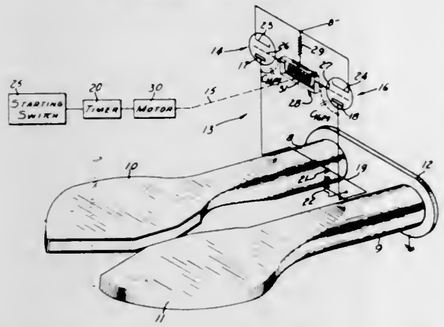
Application December 15, 1948, Serial No. 65,493
7 Claims. (Cl. 250—27)



1. In combination with a magnetic induction accelerator containing an electromagnet having pole pieces out of phase with one another, means for correcting said phase differences, said means including an electrically energizable coil hav-

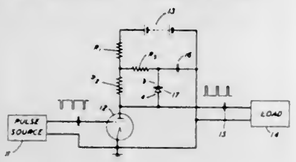
ing its magnetic axis parallel to and displaced from the magnetic axis of said electromagnet adjustably positioned adjacent one of said pole pieces so as to induce a magnetomotive force in said one of said pole pieces, said magnetomotive force being of such magnitude and in such a direction as to compensate for said phase differences thereby causing the pole pieces to be in phase with one another.

2,669,653
CYCLOTRON TUNING APPARATUS
Winfield W. Salisbury, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application April 12, 1950, Serial No. 155,511
8 Claims. (Cl. 250—27)



1. In a cyclotron having dees which are initially detuned due to residual charged particles within the dee chamber and in which the dees are excited by a driving oscillator, oscillator tuning means comprising an inductance coil connected between the grids of the oscillator tubes, support means connected to the coil, a shaft pivotally supported in said support means transversely of said coil, a generally flat non-magnetic member connected to said shaft within the confines of said coil, driving means connected to said shaft for rotating it relative to said support member, control means connected to said driving means to actuate it so that the inductance of said coil may be changed to tune the driving oscillator to the dees, and a timer connected to said control means to energize it.

2,669,654
LIMITER AMPLIFIER CIRCUIT
John B. Maggio, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 27, 1950, Serial No. 170,598
2 Claims. (Cl. 250—27)



1. The combination with a source of signals to be amplified of an output-limited amplifier comprising a space discharge device having a plate, a grid, and a cathode, means for applying said signals between said grid and said cathode, a source of plate current, a resistance voltage divider, means connecting said voltage divider in a plate-cathode circuit with said source between said source and said plate, an output circuit connected to the junction of said resistance voltage divider and said plate, a circuit including a resistor and a capacitor connected between a tap on said voltage divider and said cathode, a two-terminal asymmetrically conducting impedance element, means connecting one terminal of said impedance element to the junction of said plate and said resistance voltage divider and means connecting the other terminal of said impedance element to the junction of said resistor and said capacitor, and said asymmetrically conducting impedance element poled to receive a reverse bias from said voltage divider in the absence of signals from said signal source.

2,669,655
BALANCED PHASE DETECTOR
Wolf J. Gruen, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application November 13, 1950, Serial No. 195,211
8 Claims. (Cl. 250—27)

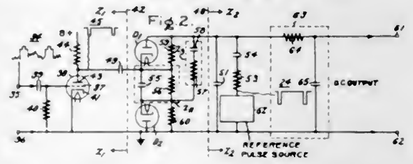
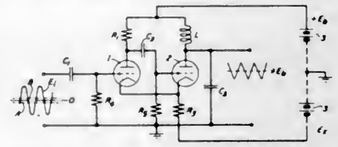


FIG. 2.

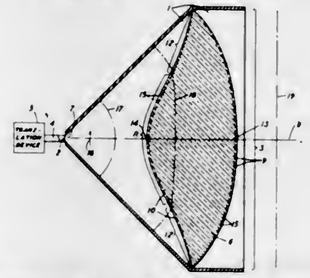
1. A balanced phase detector circuit comprising a four-arm bridge network including a first pair of impedances connected in two diagonally-opposite arms and a pair of rectifiers connected in the remaining two arms, a second pair of impedances connected respectively to diagonal corners of said network, means establishing one corner of said network as a point of reference potential, a first source of alternating voltage of predetermined frequency connected between said reference corner and the diagonally-opposite corner, a second source of alternating voltage of said frequency connected in the impedance arm adjacent said reference corner, and an output terminal connected to a corner of said network at which unidirectional voltages developed across said rectifiers are in opposition with respect to said reference corner, the impedances of said bridge network being balanced so that substantially zero unidirectional voltage is developed at said output terminal in response to either of said alternating voltages alone.

2,669,656
TRIANGULAR WAVE GENERATOR
Larned A. Meacham, New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 15, 1951, Serial No. 256,417
10 Claims. (Cl. 250—27)



1. Apparatus for generating a voltage of triangular wave form which comprises a pair of discharge devices intercoupled for operation in one or other of two stable states in one of which the first device conducts while the second is cut off and in the other of which the first device is cut off while the second conducts, a storage condenser connected in shunt with the discharge path of the second device, a constant current element connected in series with a discharge electrode of the second device, and means for applying a signal to trip said pair of devices from either of said stable states to the other of said stable states.

2,669,657
ELECTROMAGNETIC LENS
Cassius C. Cutler, Gillette, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 19, 1949, Serial No. 128,338
2 Claims. (Cl. 250—33.63)



1. A dielectric lens for use within the mouth aperture of a high frequency, electromagnetic wave, waveguide, sectoral horn, said lens being assembled within said horn mouth aperture and having a line focus in the throat aperture of said horn and a longitudinal axis coincident with the longitudinal axis of said horn and perpendicularly bisecting said focal line, said axes being situated on the median plane parallel to and midway between the parallel sides of said sectoral horn, said lens converting high frequency electromagnetic wave energy, radiated into said horn at said throat aperture, into a plane wavefront wave at the mouth aperture of said horn, the maximum thickness of the lens, from its surface nearer said focal line to its surface more remote from said focal line, measured along the longitudinal axis of said lens, being

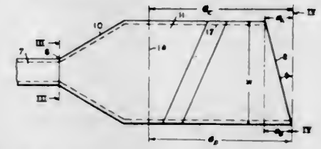
$$t_0=\frac{d_2-d_1}{n-1}$$

where d_1 is the shortest path from the focal line through the lens to the plane wavefront at the far side of the lens, d_2 is the longest path in said median plane from the focal line through the lens to the plane wavefront at the far side of the lens and n is the ratio of the phase velocity of said energy in the horn to the phase velocity in the lens, the curvature about the vertex of the nearer surface of the lens being not greater than $d_3(n-1)$, where d_3 is the difference between the parameters d_1 and t_0 as defined above, and n is the ratio defined above, the contour of the surface of the lens nearer said focal line in said median plane being defined by the quadratic $r_1=a+b\theta_1^2+c\theta_1^4$, where r_1 is the distance in said median plane from the focal line to a particular point selected on said nearer surface intermediate said shortest and said longest paths, θ_1 is the angle between the longitudinal axis of the lens and the line joining said focal line and the selected point, and a, b and c are constants obtained by solutions of the said quadratic for the three energy paths from said focal line to said plane wavefront as described above, the X and Y coordinates in said median plane of any point on the said far surface of said lens being defined, with respect to an origin at the intersection of the focal line and the longitudinal axis of the lens, by the equations $X=r_1\cos\theta_1+r_2\cos\theta_2$ and $Y=r_1\sin\theta_1+r_2\sin\theta_2$ where r_1 and θ_1 are as defined above, r_2 is the path in the lens followed by energy passing through point X, Y, and is defined by the equation

$$r_2=\frac{d_2-d_1-r_1(1-\cos\theta_1)}{n-\cos\theta_2}$$

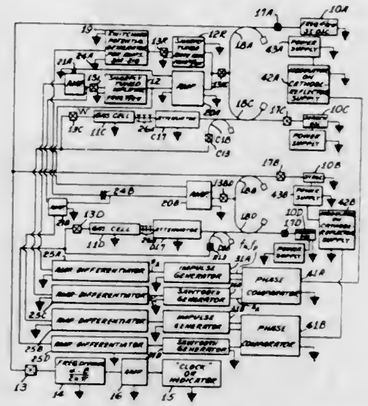
and θ_2 is the angle of r_2 with respect to the longitudinal axis of the lens, the parameters d_1, d_2, n, r_1, and θ_1, being as defined above.

2,669,658
PHASE CORRECTION OF ASYMMETRIC DUAL FEED HORNS
Hagan L. Jackson, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 2, 1951, Serial No. 234,701
9 Claims. (Cl. 250—33.63)



2. A hollow conductor for electromagnetic oscillations having a rectangular cross-section, said conductor having a flared out portion in one of the sides thereof, said flared out portion extending across said one side at an acute angle to the axis of said conductor.

2,669,659
STABILIZED GENERATOR
Lowell E. Norton, Princeton Junction, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 13, 1948, Serial No. 8,246
6 Claims. (Cl. 250—36)



1. A system for producing a sub-microwave frequency of high precision which comprises two microwave oscillators, separate gas cells for stabilizing to substantially the same degree the fre-

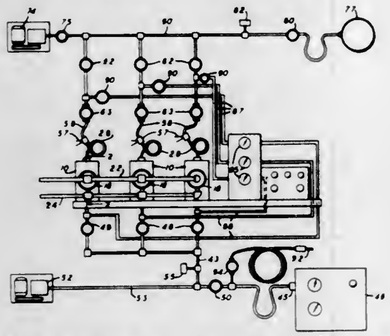
quency of each of said oscillators, said gas cells each exhibiting molecular resonance at respectively different frequencies whose difference corresponds with said sub-microwave frequency, and means for mixing the outputs of said stabilized oscillators to produce oscillations of said sub-microwave frequency.

2,669,660

LEAK DETECTING APPARATUS

Richard D. Gambrill, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 27, 1951, Serial No. 253,550
8 Claims. (Cl. 250—41.9)



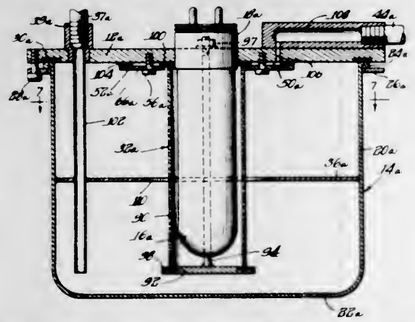
1. An apparatus for detecting leaks in sealed articles, which comprises a base plate for supporting an article to be tested, a movable hood, means for clamping the hood upon the base plate to form a gas-tight chamber about an enclosed article, means for connecting the interior of the article to a supply of a probe gas, a pump for evacuating said chamber to create a substantial pressure differential between the probe gas within the article and the atmosphere within the chamber, a detector sensitive to the presence of the probe gas, means for placing the detector in communication with the chamber to indicate the presence of the probe gas, and means for raising the hood to remove the article upon completion of the test.

2,669,661

APPARATUS FOR TREATING WATER

Milton Riddiford and Richard Goldstein, River Forest, Ill., assignors to A. R. F. Products, Inc., River Forest, Ill., a corporation of Illinois

Application November 29, 1949, Serial No. 129,922
16 Claims. (Cl. 250—43)



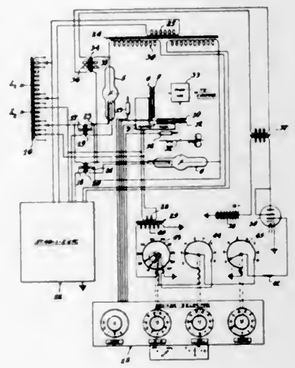
1. A water treating apparatus comprising a base plate, a source of germicidal disinfecting radiation mounted on said base plate, a substantially cylindrical casing mounted on said base plate, said casing being positioned concentric with respect to said source of radiation and being closed at one end whereby to form a closed chamber in cooperation with said base plate, said casing having a diameter such that at least 90 per cent of the germicidal radiation is absorbed between the source of radiation and the inner side of the outer cylindrical wall of said casing when the apparatus is in use, a baffle mounted in said chamber concentric with said source of radiation and interposed between said source of radiation and said casing, the nearest portion of said baffle to said source of radiation being spaced therefrom a predetermined distance to afford radiation thereat substantially equal to the average intensity of radiation between said source and said casing, an inlet and an outlet for said chamber, and a plate member carried by said base around said source of radiation and apertured therearound to promote proper flow distribution between said inlet and said outlet.

2,669,662

X-RAY THICKNESS GAUGE

Walter N. Lundahl, Hopkins, Minn., and Robert L. Wright, North Linthicum Heights, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 27, 1950, Serial No. 176,176
7 Claims. (Cl. 250—52)



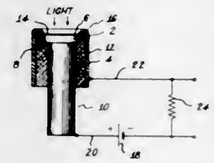
1. An X-ray thickness gauge for measuring material thickness comprising a "standard" source of X-rays and a "work" source of X-rays, means responsive to the intensity of the "standard" X-ray beam and the "work" X-ray beam and operable to cause a registration of the intensity of said X-ray beams as a measure of material thickness when interposed in the path of said "work" X-ray beam, and electrical means connected with the source of supply for one of said X-ray sources and operable by an operator to vary the energy supplied to said X-ray source by a preselected amount compared with the energy supplied to the other of said X-ray sources to cause a difference in the intensity of the X-ray beam from said sources corresponding to a preselected synthetic thickness for completing a standard thickness with which the material to be measured is compared.

2,669,663

SEMICONDUCTOR PHOTOCONDUCTING DEVICE

Jacques I. Pantchechnikoff, now by change of name Jacques Isaac Pankove, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application November 30, 1951, Serial No. 259,233
7 Claims. (Cl. 250—211)



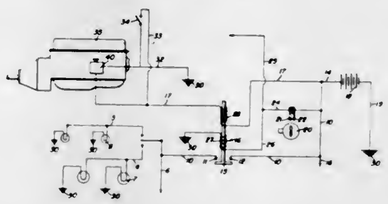
1. An electrical device comprising a body of semi-conducting material capable of forming a barrier layer at a surface thereof and having on said surface a semi-transparent film of a metal from the class consisting of antimony, bismuth, and beryllium, an electrode in contact with said body, another electrode in contact with said film, a source of bias voltage and means connecting said source across said electrodes.

2,669,664

PROTECTIVE AUTOMATIC CIRCUIT BREAKING ARRANGEMENT FOR AUTOMOBILES

William Poznik, Hawthorne, Calif.

Application November 6, 1950, Serial No. 194,213
3 Claims. (Cl. 307—10)



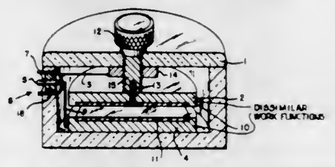
1. A protective system for automobiles driven by an engine with a main supply circuit, controlled by an ignition key controlled solenoid switch with a plurality of solenoid windings one of which is connected with an ignition key controlled operative circuit, said main supply circuit being connected with a source of currents on one side and with grounded headlight circuit and grounded further appliance circuit on the other side, comprising a thermo-responsive switch device with a heat responsive element, placed in the vicinity of the automobile engine and operated by the heat developed by the engine during its operation, and with switching contacts opened and closed by said heat responsive element, a separate circuit solely controlled by the switching contacts of the thermo-responsive switching device and directly connected with the source of currents on one side and grounded on the other side, said circuit including solely one of the coils of the ignition controlled solenoid switch, said coil providing an independent control of the said solenoid switch and of the main supply circuit, thus controlling the headlight and other appliance circuits independently of the ignition key and solely in conformity with the thermic response of the thermo-responsive switching device.

2,669,665

CONTACT POTENTIAL VARIABLE POTENTIAL CHARGER

Richard R. Annis, Colebrook, N. H., and Simon Cohen and Howard Haselkorn, Asbury Park, N. J., assignors to the United States of America as represented by the Secretary of the Army

Application August 21, 1952, Serial No. 305,716
1 Claim. (Cl. 310—6)
(Granted under Title 35, U. S. Code (1952), sec. 266)



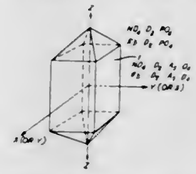
A device for charging an electrometer comprising a pair of electrically conductive plates having different work functions, said plates being parallel to and facing one another, a layer of dielectric material coating the surfaces facing one another of said plates, said plates being provided with means for establishing a contact therebetween when moved together, means for moving said plates together to establish said contact whereby an initial contact potential is developed therebetween and for then moving said plates apart to increase the value of said potential, the last named means comprising a threaded shaft connected to one of said plates engaged with and movable with respect to a fixed member, a terminal fitting into which said electrometer may be plugged connected to said plates, and a switch between said fitting and said plates for opening and closing the circuit therebetween.

2,669,666

PIEZOELECTRIC TRANSDUCER

Warren P. Mason, West Orange, and Bernd T. Matthias, Fanwood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 27, 1952, Serial No. 295,952
12 Claims. (Cl. 310—8.0)



2. An electromechanical transducer comprising a crystalline element of ammonium-d_4 deuterium phosphate, opposing faces of which are coated with a pair of conducting electrodes comprising adherent material formed on the surface of said element.

2,669,667

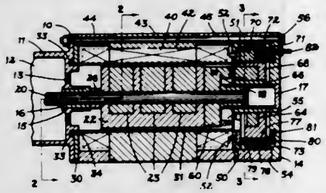
DYNAMOELECTRIC MACHINE WITH SEALED ROTOR

John F. Haines, Dayton, Ohio

Application May 9, 1952, Serial No. 286,951
14 Claims. (Cl. 310—40)

1. A dynamoelectric machine comprising a stator, a winding on said stator, a commutator in fixed relation with said stator and connected to said winding, a rotor, a permanent magnet field

carried by said rotor, a brush assembly mounted on said stator independently of said rotor for rotation relative to said commutator, and a mag-



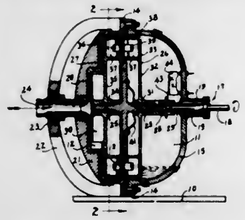
netic coupling means effective between said rotor and said brush assembly for producing synchronous rotation of said assembly with said rotor.

2,669,668

MAGNETICALLY DRIVEN CENTRIFUGAL PUMP

George Joseph Okulitch, Igor Vasilivich Zozulin, Vladimir Joseph Okulitch, and George M. Volkoff, Vancouver, British Columbia, Canada, assignors to Hermag Pumps Ltd., Vancouver, British Columbia, Canada, a corporation of British Columbia

Application February 28, 1949, Serial No. 78,712
Claims priority, application Canada February 5, 1949
3 Claims. (Cl. 310—104)



1. A magnetic coupling comprising a wall of non-magnetic material, rotors disposed on each side of said wall in substantially fixed spaced relationship and each mounted for free coaxial rotation about a stationary stub shaft extending normally from the dividing wall and integral therewith, an annulus of permanent magnets disposed on the adjacent faces of each rotor at equal distances from the axis of rotation, means to rotate positively one of the rotors, magnetic attraction between the rotors causing synchronous rotation of the other rotor by said positively driven rotor, said magnets having axially extending, radially aligned poles and alternate magnets being oppositely directed.

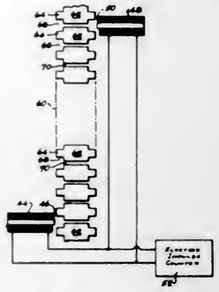
2,669,669

ELECTRIC IMPULSE GENERATOR

Harold K. Spaulding, Hohokus, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application July 22, 1952, Serial No. 300,311
9 Claims. (Cl. 310—155)

1. An electric impulse generator comprising a hollow cylindrical permanent-type magnet having a north pole at one end and a south pole at the other end; a rotor of ferromagnetic material co-axially mounted within said cylindrical magnet intermediate the ends of said magnet, said rotor having a central portion and a plurality of equally-spaced teeth extending outwardly from said central portion; and a pair of electrically connected coils disposed on opposite sides of the rotor ends; each of said coils having a core of ferromagnetic material, one of said coil cores having a low-magnetic-reluctance connection at one end with one pole of the magnet and having its other end disposed adjacent to the path of rotation of the rotor teeth and the other of said coil cores having a low-magnetic-reluctance connection at one end with the other pole of said magnet and having its other end disposed adjacent to the path of rotation of the rotor teeth, said coil cores being circumferentially-spaced relative to the rotor axis so that when



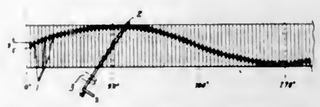
one rotor tooth is disposed adjacent to one of said coil cores another rotor tooth is similarly disposed adjacent to the other coil core to form a series magnetic path of relatively low magnetic reluctance from one pole of the magnet, through the adjacent coil core, the adjacent rotor tooth, the central portion of the rotor, the rotor tooth adjacent to the other coil core, the other coil core and thence to the other pole of said magnet such that the direction of the magnetic flux through each rotor tooth periodically reverses upon movement of said tooth from one of said coils to the other.

2,669,670

TONE WHEEL TO PRODUCE FREQUENCY-MODULATED LOW-FREQUENCY OSCILLATIONS

Hans Eggers, Berlin-Tempelhof, Germany, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application February 15, 1952, Serial No. 271,673
Claims priority, application Germany February 20, 1951
7 Claims. (Cl. 310—168)



1. In an arrangement for producing an oscillation, comprising a rotatable member, a plurality of field influencing means, spaced apart equal distances in a substantial planar pattern about the circumference of said member, and a pick-up means operatively associated with said member for receiving effects from said field-influencing means upon their passage, whereby a wave of energy is produced, an arrangement for producing a frequency modulation of said wave of energy upon uniform rotational movement of said rotatable member, comprising means for mounting said rotatable member with the plane of the pattern of said field influencing means on an axis displaced from the axis of rotation of said member.

2,669,671

FOUR-COLOR KINESCOPE

Lewis B. Headrick, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application October 6, 1951, Serial No. 250,139
5 Claims. (Cl. 313—70)



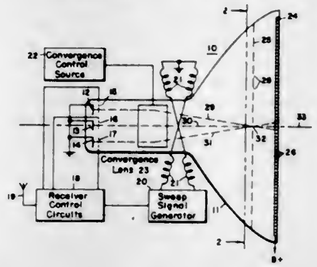
1. A target-assembly for a color-kinescope, said assembly comprising: a foundation plate having a target surface consisting essentially of a phosphor material that exhibits a substantially white color-response characteristic when struck by electrons, in combination with a multiplicity of target elements extending in a direction substantially normal to said white phosphor surface, each of said target elements having a plurality of faces consisting essentially of respectively different phosphor materials that exhibit different color-response characteristics when struck by electrons.

2,669,672

COLOR IMAGE TARGET STRUCTURE

Sam H. Kaplan, Chicago, Ill.

Application March 10, 1953, Serial No. 341,444
4 Claims. (Cl. 313—70)



1. In a color-image device, a target comprising: a plurality of distinct groups of elemental target areas, each of said groups having a different color-radiation characteristic in response to electron bombardment, said elemental areas being interspersed throughout a predetermined scanning area to constitute a multiplicity of clusters individually including one elemental target area from each of said groups, said scanning area comprising a plurality of portions individually having a different inter-cluster angular orientation, with respect to a reference axis, from that of adjacent ones of said portions, the angular orientation of said elemental target areas within each of said clusters being substantially identical, with respect to said reference axis, throughout said scanning area.

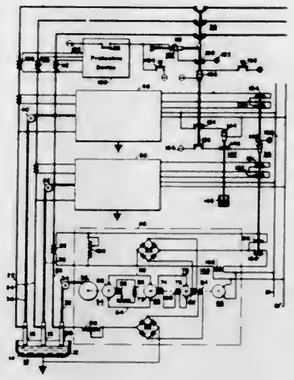
2,669,673

ARC FURNACE CONTROL SYSTEM

Ralph A. Geiselman and Glenn C. Biggs, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 27, 1953, Serial No. 333,458
4 Claims. (Cl. 314—75)

1. In an arc furnace control system for controlling the positioning of a movable electrode with respect to a molten bath in which the arc receives energy from a source of power, the combination comprising, circuit interrupting means connected between the source of power and the movable electrode, a motor for moving the electrode with respect to the molten bath, control means including a control relay responsive to the opening of the circuit interrupting means for so energizing the motor as to actuate the movable



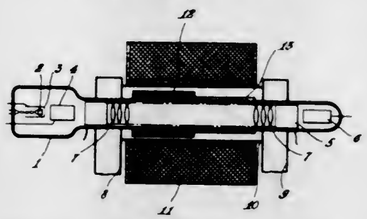
electrode in a direction away from the molten bath whereby the material of the electrode cannot contaminate the molten bath, and timing means also responsive to the opening of the circuit interrupting means for deenergizing the control relay once the motor has actuated the movable electrode a predetermined distance from the molten bath to thereby stop the movement of the movable electrode.

2,669,674

TRAVELING WAVE TUBE

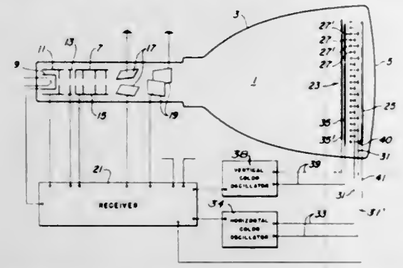
Gesinus Diemer, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application July 28, 1949, Serial No. 107,287
Claims priority, application Netherlands September 9, 1948
1 Claim. (Cl. 315—3)



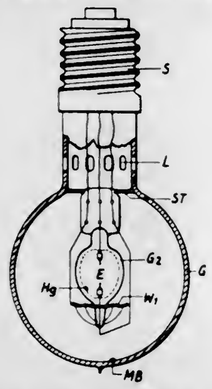
A travelling wave tube for amplifying short waves comprising a tubular envelope, a conductive helix disposed within said envelope, means to direct an electron beam along the axis of said helix disposed within the envelope, and means for varying the attenuation of said tube, said latter means comprising a hollow cylindrical member outside of and surrounding said envelope and said helix and adapted to slide thereabout, a layer of a material of poor electrical conductivity on the inner surface of said hollow member, and a second cylindrical member of conductive material surrounding said envelope and adapted to be inserted into said hollow member whereby the portions of said layer covered by the conductive member are screened from the helix.

2,669,675
DISPLAY SURFACE FOR COLOR TELEVISION TUBES
Ernest O. Lawrence, Berkeley, Calif., assignor to Chromatic Television Laboratories, Inc., San Francisco, Calif., a corporation of California
Application January 8, 1952, Serial No. 265,366
19 Claims. (Cl. 315—22)



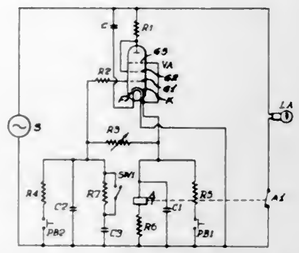
8. A target for a cathode ray tube for displaying tricolor television images according to an additive color system comprising a supporting base, a multiplicity of spaced phosphor strips of substantially uniform width deposited on said base and extending across said target area in one dimension, said strips being adapted to produce luminescence visible as one of said three primary colors when bombarded by said electron beam, and intermediate strips substantially filling the spaces between said first mentioned strips, said intermediate strips being comprised of alternate quadrilateral areas of phosphors luminescent upon electron impact to be visible in the two remaining primary colors of said additive system.

2,669,676
ELECTRIC LAMP FOR MIXED LIGHT
Johann Buser, Riehen, Switzerland
Application January 31, 1951, Serial No. 208,721
4 Claims. (Cl. 315—59)



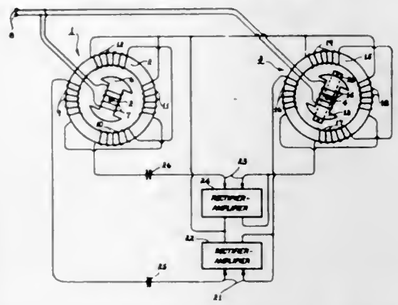
1. An electric lamp for mixed light, comprising, in combination, an outer bulb, an inner bulb within said outer bulb, high pressure arc-forming means within said inner bulb, said means forming an arc the length of which is less than the greatest diameter of said inner bulb measured in the direction of the arc, a carrier located within said outer bulb and carrying said inner bulb, a fin connecting said carrier with the inner walls of said outer bulb, said fin being thinner than the walls of said outer bulb, a filament supported by said carrier outside of said inner bulb and adjacent thereto, mercury within said inner bulb and adapted to be evaporated by said filament, an inert gas in said outer bulb, a vaporizable metal body in said outer bulb, and means supplying electrical current to said arc-forming means and said filament.

2,669,677
ELECTRONIC TIMING DEVICE
James Johnstone Entwisle, Ormskirk, England
Application March 6, 1952, Serial No. 275,194
Claims priority, application Great Britain September 20, 1951
4 Claims. (Cl. 317—142)



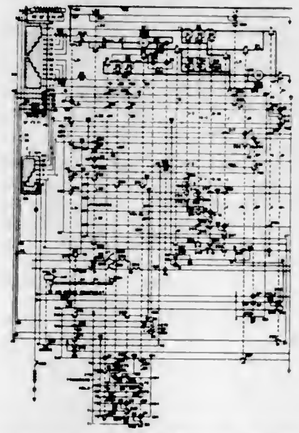
1. An electronic timing device including a control circuit fed by a source of alternating current, said control circuit comprising a vacuum tube having an anode, a cathode and at least one grid, a relay and a condenser in parallel therewith, the winding of said relay being connected directly to said cathode, contacts carried by said relay and operable by said relay on energisation thereof to open to break a circuit to a load device, a capacitance-resistance circuit comprising a series-connected condenser and resistance and a further condenser connected in parallel with said series-connected condenser and resistance, a variable resistance connecting said capacitance-resistance circuit to said cathode and in parallel with said relay, a grid resistance connecting said variable resistance, on the capacitance-resistance circuit side thereof, to the control grid, and means for momentarily short-circuiting said relay together with its associated condenser and said capacitance-resistance circuit.

2,669,678
REMOTE INDICATION SYSTEM
Richard A. Pfuntner, Saugus, Mass., assignor to General Electric Company, a corporation of New York
Application May 2, 1952, Serial No. 285,604
5 Claims. (Cl. 318—24)



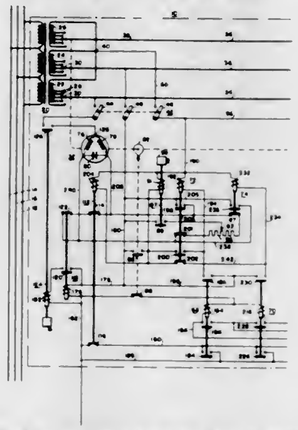
1. In a transmission system, the combination comprising a transmitter characterizing the angular positions of a first rotatable member in alternating current signals, a receiver characterizing the angular positions of a second rotatable member in alternating current signals and simultaneously creating unidirectional flux in proximity with said second member responsive to direct current signals applied thereto, torque-applying means coupled with said second member and actuated by said unidirectional flux, and means intercoupled with said transmitter and receiver applying to said receiver said direct current signals characterized in accordance with the differences between said alternating current signals from said transmitter and receiver.

2,669,679
DYNAMIC-BRAKING MOTOR-PROTECTION
George R. Purifoy, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 28, 1952, Serial No. 323,046
23 Claims. (Cl. 318—56)



1. A motor-controlling assembly, including the combination, with a series-motor means to be controlled, said series-motor means including a motor-armature and a series field winding connected in series therewith, of: (*a*) a supply-circuit for the series-motor means; (*b*) a power-switch means, for establishing a power-circuit for energizing the series-motor means from the supply-circuit; (*c*) a braking-switch means, for establishing a dynamic-braking circuit for the series-motor means; (*d*) a variable field-controlling means, for progressively adjusting said series field winding toward a full-field condition and toward a short-field condition, respectively; (*e*) an acceleration-controlling means, for controlling the closure of said power-switch means, and, contingent upon such closure, progressively controlling the acceleration of said series-motor means during power-circuit operating-conditions, said acceleration-controlling means including a finally-operating means for causing said field-controlling means to progressively adjust said series field winding toward its short-field condition; (*f*) a braking-controlling means, for controlling the closure of said braking-switch means, and, contingent upon such closure, progressively controlling the braking-adjustment of the dynamic-braking circuit during dynamic-braking conditions, said braking-controlling means including a first-operating means for causing said field-controlling means to adjust said series field winding toward its full-field condition; and (*g*) an overshooting-preventive means, responsive to an application of said braking-controlling means, and responsive also to a shortened-field condition of said field-controlling means, for effecting a delay in the restoration of full-field operating-conditions during the initial period of the dynamic-braking operation.

2,669,680
MOTOR CONTROL SYSTEM FOR REGULATING SYSTEMS
William E. Wrenn, Sharon, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 7, 1951, Serial No. 255,169
5 Claims. (Cl. 318—57)



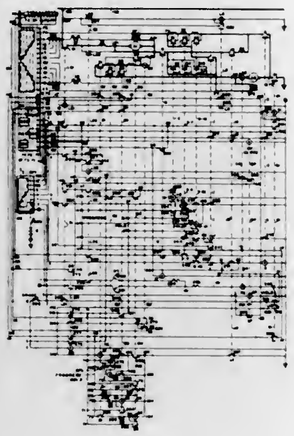
1. In a motor control system for a master motor and a slave motor, in combination, a plurality of motors, each of the motors being of the split-phase capacitor type having two substantially identical single-phase windings and a phase-shifting capacitor disposed to be selectively connected in series with one or the other of the windings to control the directional rotation of the associated motor, a pair of contactors for each of the motors disposed to be selectively energized to control the series connection of the capacitor with the windings of the respective motor, a control means for each pair of contactors for initiating the control of the operation of its respective motor in one direction or the other, interconnected switching means for rendering one of the motors a master and one of the motors a follower and for rendering only the control means of the master motor operative to control the selective energization of each of the pairs of contactors associated with the master motor and the slave motor, respectively, the switching means including a step switch for each of the motors disposed for operation to establish the interconnections only upon completion of a step operation of the motors where the motors are in step, contact means associated with each of the motors disposed to be simultaneously energized when the interconnections are established by the switching means to connect each of the motors to be directionally energized in accordance with the selective energization of the pair of contactors associated therewith, and another contact means associated with each of the motors disposed to function when the associated pair of contactors and said contact means are deenergized to cooperate with said contact means to shunt the phase-shifting capacitor and connect the single-phase windings of the associated motor in parallel circuit relation to effectively brake the motor.

2,669,681

MOTOR CONTROL PRIOR TO DYNAMIC BRAKING

George R. Purifoy, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 27, 1953, Serial No. 333,546
3 Claims. (Cl. 318—63)



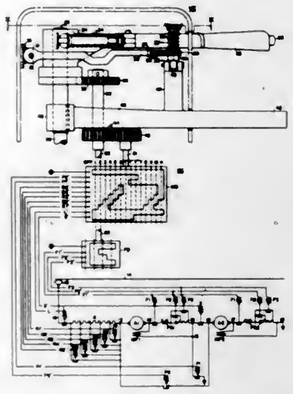
1. A motor-controlling assembly, including the combination, with a plurality of series motors to be controlled, each series motor including a motor-armature and a series field winding connected in series therewith, of: (*a*) an accelerating-controller, having an off-position and a plurality of on-positions, said on-positions including a series-motor-connection running-position, and a parallel-motor-connection running-position; (*b*) a series-connection control-means, for establishing a power-circuit for energizing the series motors in a series-motor connection in response to the series-motor-connection running-position of said accelerating-controller; (*c*) a parallel-connection control-means, for establishing a power-circuit for energizing the series motors in a parallel-motor connection in response to the parallel-motor-connection running-position of said accelerating-controller; (*d*) a variable field-controlling means, for progressively adjusting said series field winding toward a full-field condition and toward a short-field condition, respectively; (*e*) a progressively operating acceleration-controlling means, for controlling the acceleration of the series-motor means during each of the power-circuit operating-conditions, said acceleration-controlling means including a first-operating voltage-controlling means for controlling the voltage which is effective on the motor-armature, and a finally operating field-controlling means for causing said field-controlling means to progressively adjust said series field winding toward its short-field condition in the parallel-motor power-circuit connection; and (*f*) a shortened-field-responsive means, responsive to a shortened-field condition of said field-controlling means, and responsive to all of the on-positions of the accelerating-controller, for establishing the parallel-motor power-circuit connection and nullifying all accelerating-controller on-positions other than the parallel-motor-connection running-position.

2,669,682

HAND CONTROLLER FOR PLURAL DRIVE MOTORS

Cyril E. Baston, Glenshaw, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 27, 1952, Serial No. 306,703
6 Claims. (Cl. 318—92)



1. A master-controller having, (*a*) a main drum having a relatively large number of operating positions, and including a main operating-handle, (*b*) an auxiliary drum having an off-position and a plurality of on-positions, and including an auxiliary operating-handle, (c) a handle-biasing spring for returning said auxiliary handle to its off-position, (*d*) a yieldable latch carried by said auxiliary handle and including a latch-releasing member carried by said auxiliary handle, (*e*) a notch-plate including a notch-segment having a separate notch for holding said auxiliary handle, against the bias of said handle-biasing spring, in at least each of the on-positions of the auxiliary handle, when the corresponding notch is engaged by said latch, (*f*) said notch-plate including a mounting-means which permits said notch-segment to be axially moved into positions in and out of engageability with said latch on the auxiliary handle, (*g*) a notch-segment biasing-means, for biasing said notch-segment toward a position wherein said notches are not engageable by said latch, and (*h*) a means, operable at any one of a relatively small number of predetermined selected positions of the main handle, for moving said notch-segment, against its biasing-means, into a position for cooperative engagement with the latch of said auxiliary handle.

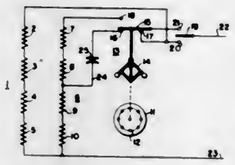
2,669,683

TWO-SPEED SINGLE-PHASE INDUCTION MOTOR

John C. Burdett, Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 28, 1951, Serial No. 258,610
5 Claims. (Cl. 318—221)

1. A two-speed, single-phase induction motor having relatively rotatable primary and secondary members, first and second primary windings on the primary member, said primary windings each comprising a plurality of pole groups and being arranged and connected to provide different numbers of poles, said second primary winding being disposed so that at least some of its pole groups lie between pole groups of the first primary winding, said last-mentioned pole groups of the second primary winding being separately connected together as one section of the winding, said section being connected to the remaining pole groups of the complete winding, a selector switch adapted to alternatively connect one or the other of the primary windings to a single-phase line for operation of the motor at different speeds, and a speed-responsive switch adapted when the motor is at rest to con-



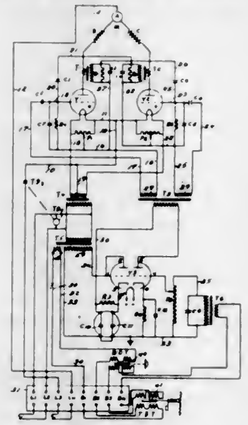
nect the first primary winding and said one section only of the second primary winding in parallel to the selector switch for connection to the line in either position of the selector switch, and the speed-responsive switch being adapted when the motor speed exceeds a predetermined value to interrupt the connection of said section of the second primary winding and to connect the entire second primary winding to the selector switch.

2,669,684

CONTROL CIRCUIT FOR A SERIES WOUND REVERSIBLE MOTOR

William D. Macgeorge, Collegeville, Pa., assignor to Automatic Temperature Control Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application July 12, 1950, Serial No. 173,312
10 Claims. (Cl. 318—252)



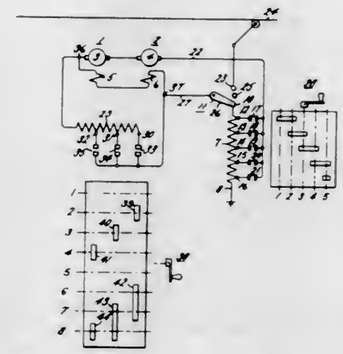
1. A motor-regulating circuit for running a series wound D. C. motor in one direction with variable speed, comprising a network, a movable element differential transformer in the network having a position of substantially null output and an output of given phase and varying amplitude with one sense and degree of departure of the movable element of the transformer from the null output position, a gas tube in the network, a series wound D. C. motor in the network, means connecting the cathode anode circuit of the tube to a field and the armature of the D. C. motor in series, and means in the network responsive to the A. C. signal from the differential transformer for firing the tube for running the said motor at a rate proportional to the amplitude of the signal from said transformer.

2,669,685

DYNAMIC BRAKING SYSTEM FOR ELECTRIC MOTORS

Ira W. Lichtenfels, Harborcreek, Pa., assignor to General Electric Company, a corporation of New York

Application September 26, 1952, Serial No. 311,665
5 Claims. (Cl. 318—262)



1. A dynamic braking circuit comprising a commutator type motor having an armature and a field winding, a braking resistor, first switching means arranged to connect said braking resistor in circuit with said armature and field winding whereby power generator by said motor when driven as a generator is dissipated in said braking resistor, a field shunting resistor having a plurality of taps, and a controller having a plurality of contacts for progressively connecting said taps in circuit with said field winding thereby to connect progressively larger sections of said braking resistor in shunting relationship with said field winding to provide a plurality of field shunting steps, said contacts being of such size and position with respect to said controller as to disconnect all of said taps from said field winding between each connection whereby full field is applied to said motor between each of said field shunting steps thereby to accelerate build-up of armature current.

2,669,686

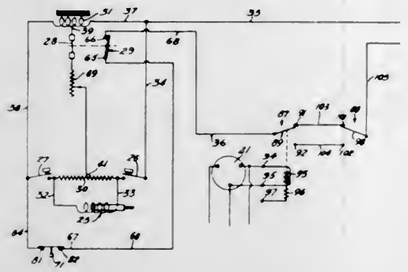
SAFETY CONTROL FOR MOTOR OPERATED MACHINES

Arthur L. Riche, Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application October 23, 1947, Serial No. 781,519
22 Claims. (Cl. 318—471)

21. A controller for a power driven machine having a motor for supplying power and an actuator for controlling an application of power thereto comprising a control circuit for controlling the operation of said actuator, a manually operated switch in series with said circuit comprising a switch element movable between opposed contacts, a second switch in series with said circuit comprising a second switch element movable between opposed contacts, each of said latter contacts being electrically connected with one of said contacts on said manually operated switch, means responsive to the energization and de-

energization of said motor for controlling the position of said second switch element so that upon energization of said motor said second switch element engages one contact and upon de-energization of said motor said second switch



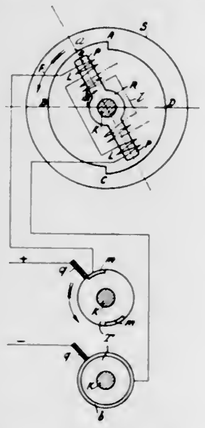
element engages the opposite contact, said first switch element being movable manually between its contacts to engage the contact corresponding to the contact engaged by said second switch element to energize said actuator.

2,669,687

ELECTROMAGNETIC ATTRACTION MOTOR

Maurice de Tastes, Paris, France

Application November 9, 1951, Serial No. 255,618
Claims priority, application France November 14, 1950
5 Claims. (Cl. 318—492)



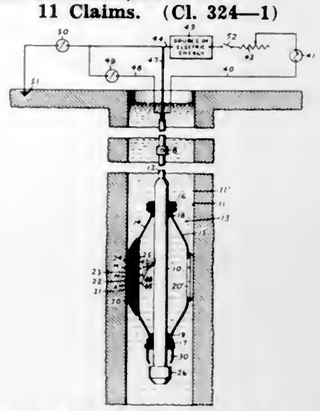
1. An electromagnetic attraction motor of the type described including a rotor having at least one pair of pole faces and a stator having surface portions so shaped as to provide successively for an air-gap of decreasing width and an air-gap of constant width, comprising a primary winding on said rotor, means for supplying current to said primary winding when said pole faces are in a zone of decreasing air-gap and for cutting off current when said pole faces are in a zone of constant air-gap, a secondary winding on said rotor electromagnetically coupled with said primary winding, a circuit electrically connected to said secondary winding, and switching means in said circuit for switching it on at latest when the supply current to the primary winding is cut off and for switching it off at latest when the supply current to the primary winding is set up.

2,669,688

RESISTIVITY APPARATUS FOR OBTAINING INDICATIONS OF PERMEABLE FORMATIONS TRAVERSED BY BOREHOLES

Henri-Georges Doll, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware

Original application October 18, 1949, Serial No. 122,102. Divided and this application May 29, 1953, Serial No. 358,426
11 Claims. (Cl. 324—1)



1. In well logging apparatus, the combination of a flexible insulating cushion member mounted for movement through a well and having an outer face, means for urging said member laterally to bring the outer face thereof into engagement with the wall of the well, a plurality of small, closely spaced electrodes embedded in said cushion member outer face at different distances from a first one of said electrodes, each of said electrodes having an exposed portion facing the wall of the well, means for passing electric current between said first electrode and a reference point spaced apart therefrom, a first potential indicating circuit connected to receive the potential difference between a second of said electrodes and a reference point spaced apart therefrom, said first and second electrodes comprising part of a first exploring system having a very small electrode spacing adapted to render the system responsive primarily to the electrical resistivity of the material in a zone on the order of a fraction of an inch in thickness extending laterally and outwardly from the surface boundary of the bore hole, a second potential indicating circuit connected to receive the potential difference between a third of said electrodes and a reference point spaced apart therefrom, said first and third electrodes comprising part of a second exploring system having an electrode spacing greater than said first exploring system and rendering said second exploring system primarily responsive to the electrical resistivity of the earth formation material beyond said zone, and means for recording the potentials indicated by said first and second potential indicating circuits.

2,669,689

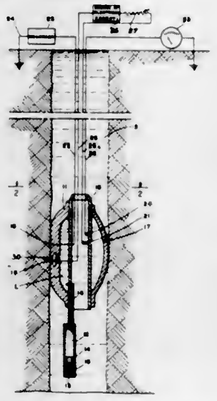
METHOD AND APPARATUS FOR DETERMINING EARTH FORMATION FACTORS

Henri-Georges Doll, Houston, Tex., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware

Application April 13, 1945, Serial No. 588,228
17 Claims. (Cl. 324—1)

1. In apparatus for determining the formation factor of a formation traversed by a bore hole

containing a liquid, the combination comprising means for creating a first electrical quantity representative of the resistivity of a portion of the formation invaded by the liquid in said bore hole, means for simultaneously creating a second electrical quantity representative of the resistivity of the liquid in the bore hole in the vicinity of said portion of the formation, means for creating a physical quantity based on said first and second electrical quantites which varies in accordance with the quotient of said formation resistivity and bore hole liquid resistivity, and means for obtaining indications of said physical quantity.



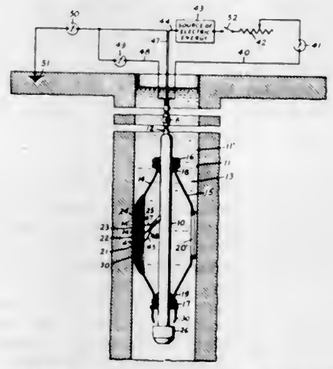
12. In well logging apparatus, the combination of a hollow, cushion member containing a quantity of fluid and having a flexible wall adapted to engage the well wall, means mounting said cushion member for movement through a well with the flexible wall thereof in engagement with the well wall, and electrode means carried by said flexible wall for providing electrical communication with the well wall.

2,669,690

RESISTIVITY METHOD FOR OBTAINING INDICATIONS OF PERMEABLE FORMATIONS TRAVERSED BY BOREHOLES

Henri-Georges Doll, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware

Application October 18, 1949, Serial No. 122,102
5 Claims. (Cl. 324—10)



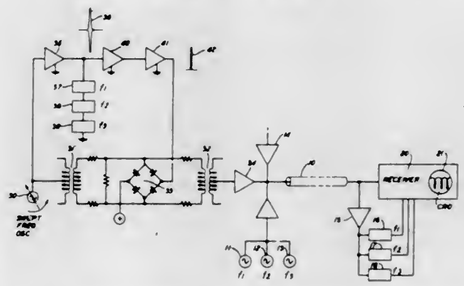
1. In logging operations in a bore hole which has been treated with a column of fluid containing finely divided solids in suspension, the step of obtaining indications that are primarily a function of the electrical resistivity of the material in a zone on the order of a fraction of an inch in thickness extending laterally and outwardly from the surface boundary of the bore hole, to determine whether said material comprises principally formation material or principally mud cake formed from finely divided solids screened out of said bore hole fluid on the bore hole side of the bore hole wall opposite a permeable formation.

2,669,691

BROAD BAND TESTING

Robert W. Edmonds, Lake Mohawk, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 1, 1951, Serial No. 223,875
8 Claims. (Cl. 324—57)



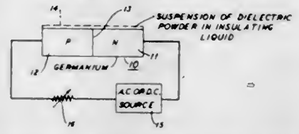
1. In combination with a broad band transmission circuit having means to transmit a single frequency within the band, a source for transmitting waves of swept frequency over said circuit, said waves periodically sweeping over all of said band except for a narrow frequency gap including said single frequency, a gate normally in a low loss or transmitting condition, connected in said circuit in the path of said waves, means to derive from the waves generated by said source a gating pulse at the instant in the sweep at which the swept frequency passes through said narrow gap and means to utilize said pulse to operate said gate to a high loss condition.

2,669,692

METHOD FOR DETERMINING ELECTRICAL CHARACTERISTICS OF SEMICONDUCTIVE BODIES

Gerald L. Pearson, Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 10, 1951, Serial No. 241,217
9 Claims. (Cl. 324—158)



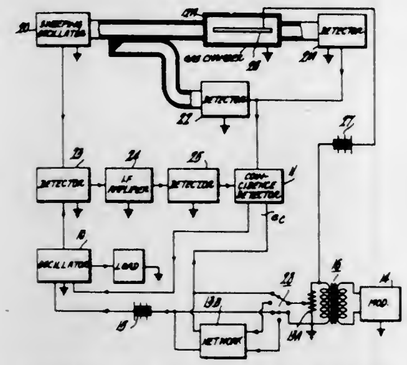
1. The method of determining the variation of electrical characteristics of a body of semiconductive material in one direction along the body which comprises applying to the body a suspension of dielectric particles in an insulating liquid, and applying a potential between points on the body spaced in said direction.

2,669,693

WIDE-BAND MODULATION OF FREQUENCY-STABILIZED OSCILLATORS

Lowell E. Norton, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 12, 1950, Serial No. 161,507
7 Claims. (Cl. 332—19)



6. A system for frequency-stabilizing and frequency-modulating the carrier of an oscillator including an electronic tube whose potential (e_i) affects the oscillator frequency (ω_0) in accordance with a transfer factor (μ) which comprises a feedback loop from the output system of said oscillator to said electrode, a frequency-error detector in said loop and including a resistance-reactance network having a transfer factor (β), a source of standard frequency (ω_s) coupled to said detector for production of a feedback potential applied to said electrode to affect the oscillator frequency in accordance with the relation

$$\omega_0=\frac{\mu}{1+\mu\beta}e_i+\frac{\mu\beta}{1+\mu\beta}\omega_s$$

and modulating means for simultaneously varying said potential and the standard frequency in accordance with a modulating signal to such extents (de_i and $d\omega_s$) that the incremental change $(d\omega_0)_T$ of the oscillator frequency corresponds with

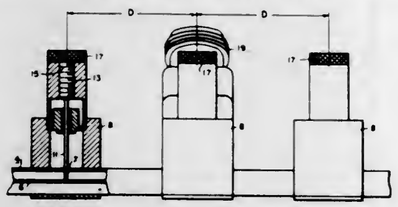
$$\frac{\mu de_i+\mu\beta d\omega_s}{1+\mu\beta}$$

2,669,694

MODULATOR

Clyde E. Vogeley, Jr., Pittsburgh, Pa., and William L. Stahl, Ypsilanti, Mich., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 28, 1951, Serial No. 223,494
7 Claims. (Cl. 332—52)



1. In combination a waveguide, three probes attached to said waveguide in such a manner that they may be caused to extend into said waveguide a variable distance, said probes being located so as to interrupt different cross sectional areas along the length of said waveguide, and connections for effectively changing the impedance of that probe which is so located as to intercept a cross sectional area between the cross sectional areas intercepted by the other two probes.

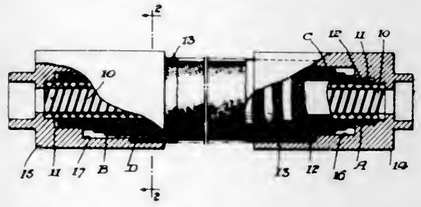
2. A hollow conductor for electromagnetic oscillations having substantially a rectangular cross section with a re-entrant portion extending into said conductor and extending along said conductor parallel to the direction of propagation of energy in said conductor, three probes mounted on said conductor at different positions along the length of said conductor, said probes being mounted so that they may be caused to extend into said conductor a variable distance, said probes extending into said conductor through holes in the wall of said conductor opposite said re-entrant portion, and means for varying the impedance which one of the probes presents to the oscillations.

2,669,695

HIGH ATTENUATION SHIELDED LEAD STRUCTURE

Stanley P. Bird, Verona, N. J., assignor to Breeze Corporations, Inc., Newark, N. J., a corporation of New Jersey

Application September 23, 1952, Serial No. 311,077
6 Claims. (Cl. 333—12)



1. A high attenuation shielding structure for ignition leads comprising, a lead receiving conduit, alternate layers of conductive and non-conductive material disposed about the conduit, a first ferrule on one end of the structure, said first ferrule having a plurality of steps therein, said steps being formed so as to overlie and be in electrical contact with the conduit and alternate conductive layers within the structure, a second ferrule on the end of the structure opposite the first ferrule, said second ferrule having a plurality of steps therein, said steps having a diameter which cause them to overlie and come into electrical contact with the conduit and those conductive layers within the structure not contacted by the first ferrule, and a protective dielectric covering surrounding the assembly between the ferrules.

2,669,696

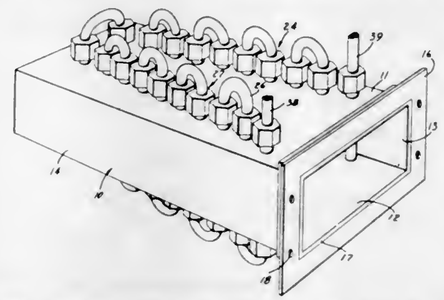
HIGH POWERED WAVE GUIDE LOAD

Curtis E. Ward, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application December 10, 1949, Serial No. 132,286
3 Claims. (Cl. 333—22)

1. A load for absorbing high power energy in a wave guide comprising, a closed end rectangular wave guide section receiving energy into the open end, a plurality of conduits passing transversely through the wave guide section and offset longitudinally from each other so that

the pattern formed by the intersection of the conduits with the wave guide wall is a parabola, and with the conduits adjacent the edges of the



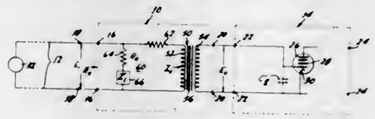
wave guide being further from the closed end than the center conduits, and energy absorbing fluid passing through said conduits to absorb the energy passing down the wave guide.

2,669,697

TRANSFORMER COUPLING NETWORK

Raymond C. Olesen, Altadena, Calif., assignor, by mesne assignments, to Transformer Engineers, a corporation of California

Application July 15, 1948, Serial No. 38,852
18 Claims. (Cl. 333—24)



8. In a transformer network having an input and an output a transformer having a primary winding and a secondary winding, said secondary winding being connected across said output, the equivalent circuit of the virtual primary impedance comprising an incremental primary inductance and a series circuit connected across said incremental inductance, said series circuit being represented by a total leakage inductance L_s connected in series with a capacitance n^2C_s', where C_s' is the secondary distributed capacitance of said transformer and

$$n=\frac{\text{number of turns on secondary winding}}{\text{number of turns on primary winding}}$$

and a parallel network having a compensating capacitance and a compensating inductance connected in parallel therein, said compensating capacitance c_2 having a value that is the reciprocal of said leakage inductance, which value is given by the equation

$$c_2=\frac{L_s}{R_0^2}$$

and said compensating inductance l_2 having a value which is approximately the reciprocal of the secondary distributed capacitance as viewed from the primary winding and which is given approximately by the equation

$$l_2=(nR_0)^2C_s'$$

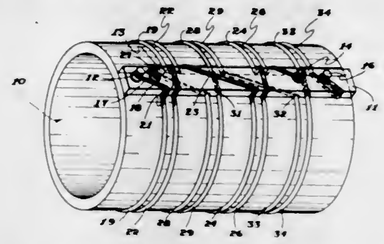
and resistance means having a value R_0, said resistance means, said compensating capacitance and said compensating inductance being so connected and their values being such that said transformer network possesses a substantially constant resistance R_0 over said frequency range.

2,669,698

RADIO FREQUENCY MATCHING TRANSFORMER

Vincent R. De Long, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application April 26, 1951, Serial No. 223,090
3 Claims. (Cl. 333—24)



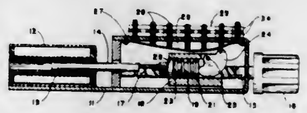
3. Means for forming a high impedance transformer coil comprising, a generally cylindrical coil form, a first conductor wound about the coil form with pairs of turns closely adjacent to each other and other pairs longitudinally offset from the remaining pairs, an insulating strip attached longitudinally to the coil form over the turns of the first conductor, a second conductor wound about the coil form with pairs of turns between the pairs of turns of the first conductor and the second conductor passing longitudinally along the coil over the insulating strip between adjacent pairs of turns.

2,669,699

MULTIPOINT TEMPERATURE COMPENSATION FOR TUNERS

Gustave Shapiro, Washington, D. C., assignor to the United States of America as represented by the Secretary of the Navy

Application October 30, 1951, Serial No. 253,947
9 Claims. (Cl. 336—30)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. For use with a permeability tuner having a series of independently adjustable regulating means for varying the rate of relative movement of the tuning slug and the inductor, a temperature responsive member including separate means supporting each regulating means, a deformable member to be shaped operatively contacted by said regulating means, and restraining means for each said supporting means to limit its response to a given temperature change to the desired amount.

2,669,700

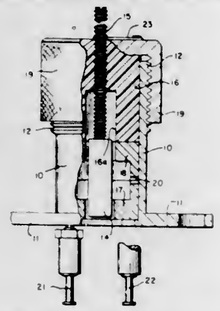
CUP-CORE ASSEMBLY FOR INDUCTORS

Alexander Rauch, River Plaza, N. J., assignor to the United States of America as represented by the Secretary of the Army

Application February 4, 1952, Serial No. 269,886
3 Claims. (Cl. 336—90)
(Granted under Title 35, U. S. Code (1952), sec. 266)

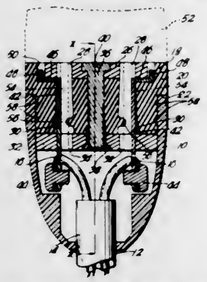
1. In a cup-core inductor of the character described, a housing having a base at one end

thereof and open at its other end, a pair of complementary cup cores disposed in said housing at the base end of the latter, an adjustable tuning slug having a threaded shank and disposed with its longitudinal axis substantially coincident with the longitudinal axis of said housing and with said shank substantially at the open end of said housing, a resilient insulator threaded on said shank with a relatively tight fit to grip the latter and disposed in said housing adjacent to said cup cores, and means interlocked with the wall struc-



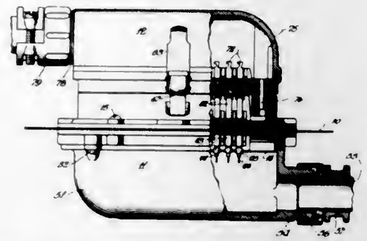
ture of said housing and compressing said insulator between itself and said cup cores to hold the latter firmly against said base and to contribute further to the grip of said part on said threaded shank, said shank being otherwise free to turn in either direction with respect to said insulator, said insulator being provided at the center and longitudinally thereof with a cavity of sufficient cross-sectional area to receive and to accommodate said slug in the fully-retracted position of the latter.

2,669,701
ELECTRICAL PLUG WITH COMPRESSIBLE MEANS TO RETAIN CONTACTS THEREIN
Emile P. Brus, Kansas City, Mo.
Application October 9, 1950, Serial No. 189,145
7 Claims. (Cl. 339—59)



1. A terminal contact fitting for an electric conductor cable, said fitting comprising a tubular body of rigid material provided with a bore having a central axis; a compression device of elastic material in the bore of said body, said device being expandable perpendicularly to said axis of the bore when the device is compressed in a direction parallel to said axis; a contact element carried by the device and having means for electrically connecting the conductor of a cable thereto; and means carried by the device and separate from the body for compressing said device to expand the same into tight gripping relationship with said body, said device being freely removable from the body when not compressed and being held in the body only by said gripping relationship when compressed.

2,669,702
SEALED CONNECTOR
Curt W. Klostermann, Chicago, Ill., assignor to American Phenolic Corporation, Chicago, Ill., a corporation of Illinois
Application May 12, 1950, Serial No. 161,646
5 Claims. (Cl. 339—196)

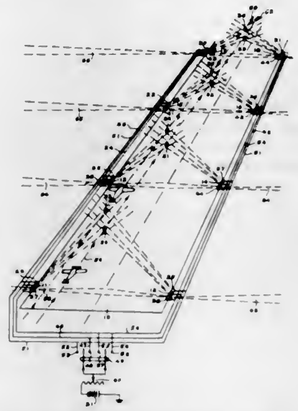


1. A sealed connector comprising, in combination, a relatively rigid metallic shell having a marginal mounting flange extending thereabout, with a connector socket open on one side of the flange, and opposed walls forming an inner end of said shell on the other side of the flange; a metallic sealing cap fixedly mounted with respect to the shell and including a bottom partition extending across and closing the inner end of said shell, with side walls on said cap in telescoping relation with the walls of the inner end of the shell whereby the sealing cap and the shell are held together and with an outwardly extending marginal soldering flange thereon; said metallic sealing cap having a multiplicity of apertures in the bottom thereof with a single metallic terminal pin extending through each of said apertures; the terminal pins having straight inner end portions standing in parallel relationship to each other, with the pins supported in said apertures by glass beads fused to the pins and fixedly mounted within said apertures; a dielectric insert extending between the opposed walls of said metallic shell, with a multiplicity of separate contact members comprising narrow flat metallic strips carried by and extending through said insert; each of said contact members comprising a laterally yieldable outer portion housed within the socket portion of the shell, an intermediate portion within the dielectric member and fixedly held therein, and a yieldable coupler portion disposed between the dielectric member and the sealing cap, said coupler portion of each of said contacts including a free standing spring leg extending from the dielectric member to the pin, with a reverse bend at the extreme end of said leg and an oversize aperture in the reverse bend loosely encircling the terminal pin, and with a pair of oppositely disposed convex contact surfaces parallel with each other and extending laterally across the leg in a direction perpendicular to the terminal pin and engaging the terminal pin on opposite sides thereof.

2,669,703
LANDING AID
John Hays Hammond, Jr., and Albert D. Trenor, Gloucester, Mass.; said Trenor assignor to said Hammond, Jr.
Application May 16, 1952, Serial No. 288,218
2 Claims. (Cl. 340—26)

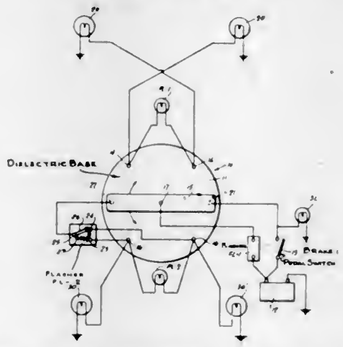
1. A landing aid to guide an airplane along a glide path onto a landing strip comprising a plurality of light sources disposed along each side of said path, each source comprising a searchlight projecting a beam of light across said path and

adapted to swing in elevation, opposite sources projecting beams at the same elevation to cross at the center of said path, successive pairs projecting said beams at successively lower elevations to cross at points representing the selected guide paths, repeaters including receivers con-



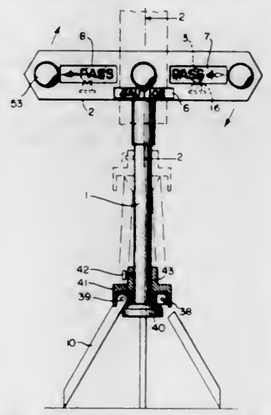
nected to control the elevation of said searchlights, and remote transmitters connected to actuate said receivers, and selective control means connected to actuate said transmitters to set automatically the various pairs of searchlights to their correct respective angles to conform to a selected glide path.

2,669,704
VEHICLE SIGNALING CIRCUIT
Jesse R. Hollins, Brooklyn, N. Y.
Application May 7, 1952, Serial No. 286,499
4 Claims. (Cl. 340—81)



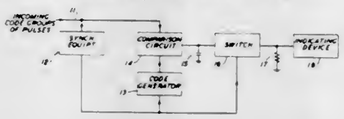
1. In a vehicle having a source of electric energy, a stop lamp, a brake-operated switch controlling energization of said stop lamp from said source, turn signalling lamps, a flasher connected to said source, and a selector switch having contacts and a switch arm selectively operable to connect said signal lamps to said flasher for selectively flashing a right turn or a left turn, the combination of a second flasher having a pair of output terminals respectively connected to a left signal lamp and a right signal lamp; and means, including selector switch contacts independent of the signal lamp contacts and engaged by the switch arm only in the neutral position of said selector switch, operable upon actuation of said brake-operated switch to connect said second flasher to said source in parallel with said stop lamp to flash a pair of left and right signal lamps when said stop lamp is illuminated.

2,669,705
PROTECTIVE SIGNAL DEVICE
William Joseph Wheatland Collins, New York, N. Y.
Application September 19, 1951, Serial No. 247,212
4 Claims. (Cl. 340—114)



1. A signal device comprising a post, a casing on the upper end of said post, signal members carried by said casing, a curved coupling between said casing and said post, the casing having a boss receiving one end of said coupling, a binding screw on said boss, the coupling having a slot receiving said screw so that said casing may be maintained in transverse position or swung into alinement with said post, an insulator in said boss, an electric switch on said insulator, the switch comprising a fixed terminal, an electric lamp bulb at each end of said casing and in the middle thereof, light transmitting signal members carried by the one side of the casing adjacent each bulb, additional fixed terminals mounted on said insulator, an electric conductor connecting each lamp bulb to one of said additional terminals, a movable arm on said insulator to connect the first-named terminal to one or more of the additional terminals, and means in the coupling for conducting current to said first-named terminal.

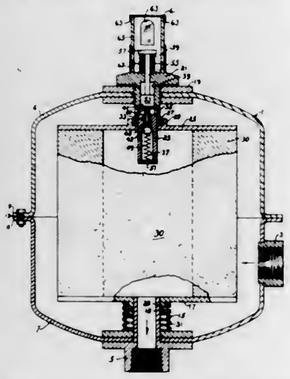
2,669,706
CODE SELECTOR
Frank Gray, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 9, 1950, Serial No. 160,951
8 Claims. (Cl. 340—164)



1. A circuit for selecting from a series of pulse code groups of "on"-"off" digit pulses a particular one of the possible permutation code groups which comprises means to generate a replica of the code group to be selected, means to compare

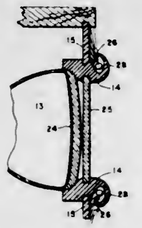
each digit of the generated code group with the corresponding digit of each group of said series, charge storing means, means for successively increasing the charge in said charge storing means in response to each successive coincidence between an "on" pulse of said replica and an "on" pulse of said series, an output circuit responsive to the total charge stored in said charge storing means and means for discharging said charge storing means through said output circuit at the end of each of said pulse code groups.

2,669,707
FILTER SIGNAL
Frederick S. Ehrman, Fort Wayne, Ind., assignor to Bowser, Inc., Fort Wayne, Ind., a corporation of Indiana
Application April 29, 1950, Serial No. 159,053
4 Claims. (Cl. 340—239)



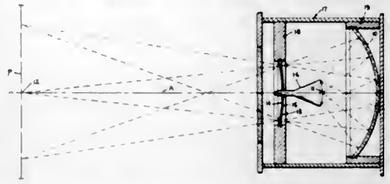
1. In a filter comprising a filtering medium, the combination of a signal having ineffective and signalling positions, means for urging said signal toward signalling position, means normally holding said signal in ineffective position, a normally closed valve means, disposed so as to be opened by the increase in pressure resulting from substantial clogging of the medium, for by-passing liquid around said medium, and means operated by said valve means for releasing said holding means.

2,669,708
ADJACENT AREA ILLUMINATOR FOR CATHODE-RAY TUBES
Allen B. Du Mont, Upper Montclair, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application April 28, 1949, Serial No. 90,110
1 Claim. (Cl. 340—367)



In a television receiver cabinet a television picture tube having a viewing screen, a safety glass positioned in front of said screen, a mask surrounding said screen and said safety glass and having an outwardly curved lip, and extending to cover the edges of both said screen and said glass and a light source positioned within the curve of said lip to project light transversely outwardly onto the area of said cabinet adjacent said screen to be reflected thereby.

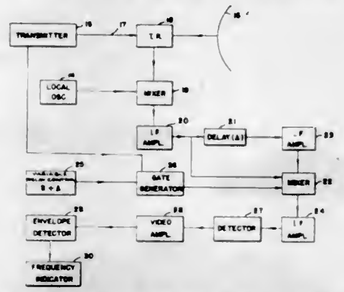
2,669,709
IMAGE PROJECTION OPTICAL SYSTEM
Anna E. Glancy, Southbridge, Mass., and John K. Davis, East Woodstock, Conn., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application October 19, 1950, Serial No. 190,908
9 Claims. (Cl. 340—370)



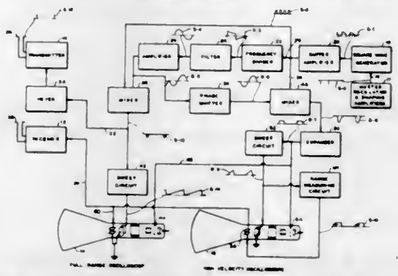
1. An image projection device comprising a light source, image receiving means spaced from said light source for receiving an image of said light source, and an axially aligned optical system for projecting said image of said light source upon said image receiving means, the axis of said optical system intersecting said image receiving means, said optical system comprising a concave reflector element positioned at a predetermined distance from said light source with its center of curvature lying substantially on said axis, said reflector element being adapted to receive light rays emitted by said light source and by reflection substantially focusing said light rays upon said image receiving means with some spherical aberration, and a meniscus-shaped correcting plate arranged to intercept said light rays reflected upon said image receiving means, said correcting plate being located in predetermined spaced relation with said reflector and image receiving means, and further having an aspherical surface on one side thereof to correct for said spherical aberration and a spherical surface on its opposed side, the center of curvature of which is effectively disposed substantially at the intersection of said axis by said image receiving means, and the center of curvature of said reflector being effectively located on said axis substantially at the intersection of said axis by said correcting plate, whereby said optical system projects a substantially uniformly clear image of said light source upon said image receiving means.

2,669,710
AIRCRAFT VELOCITY INDICATING PULSE ECHO SYSTEM
Rubby Sherr, Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application October 26, 1945, Serial No. 624,905
3 Claims. (Cl. 343—8)

1. A pulse-echo system for determining the speed of an aircraft relative to the ground including means for locally generating at said aircraft short duration, high carrier-frequency, exploratory pulses of radiant energy, means for directing said exploratory pulses towards the ground at an acute angle relative to the vertical direction, a receiver adapted to pass energy reflected from the ground at predetermined ranges from said aircraft, means for receiving and passing by said receiver energy reflected from the ground at a first predetermined range from said aircraft, means for receiving and passing by said receiver energy reflected from the ground at a range from said aircraft greater than said first-mentioned range, means for delaying the received energy reflected from said ground at said first range for a period of time equal to the additional time required for reflected energy to return to the aircraft from said ground at said second range, means for algebraically combining said delayed reflected energy and the received reflected energy from said ground at said second range, means for detecting said combination to obtain voltage pulses, means for obtaining the modulation envelope of a plurality of voltage pulses, thus to provide an indication of the speed of said aircraft relative to the ground.

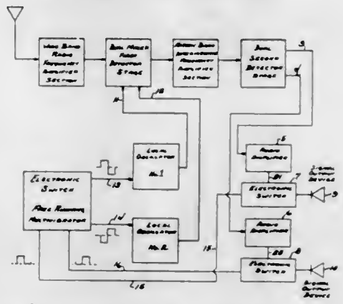


2,669,711
RANGE MEASURING SYSTEM
James R. Moore, Dutch Neck, N. J.
Application May 19, 1944, Serial No. 536,263
14 Claims. (Cl. 343—13)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A receiving channel in a radio object-locating system, said receiving channel including a master oscillator, a frequency dividing circuit connected to said master oscillator, a filter connected to the output of said frequency dividing circuit and adjusted to the fundamental wave of said frequency dividing circuit whereby its output is a substantially sinusoidal wave, an amplifier and a phase shifter connected to the output of said filter, and a mixer connected to said master oscillator and said phase shifter, said mixer selecting only that series of pulses generated by said master oscillator which coincide in time with the positive crests of the wave impressed on said mixer by said phase shifter, and a multicontact switch interposed between said phase shifter and said mixer for selecting the phase of said sinusoidal wave, said phase positions differing from each other by steps corresponding to a 360° phase shift of the wave generated by said master oscillator.

2,669,712
DUAL CHANNEL RECEIVER
Wayne S. Rial, Batavia, N. Y.
Application February 27, 1951, Serial No. 212,874
4 Claims. (Cl. 343—206)



1. A dual superheterodyne receiver comprising a wide band receiver, a first detector having an input circuit connected to the output circuit of the radio receiver, a pair of local oscillators of different frequencies coupled to an input circuit of said first detector, an intermediate frequency amplifier connected to the output of said first detector, a second detector having its input circuit connected to the output circuit of the intermediate frequency amplifier, a pair of audio frequency amplifiers having their input circuits connected to the output of said second detector, a pair of audio signal receivers one for each audio amplifier, and means for alternately keying said local oscillators and alternately operatively connecting said audio amplifiers to their respective audio signal receivers in synchronism with the keying of the local oscillators, whereby the signal selected by one oscillator is received at one audio receiver only and the signal selected by the other oscillator is received by the other audio receiver only.

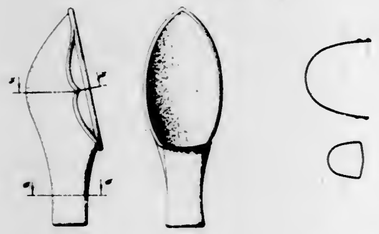
2,669,713
METHOD OF REGENERATING ANION EXCHANGE RESINS
Roy H. Osmun, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application October 27, 1950, Serial No. 192,618
3 Claims. (Cl. 210—24)

1. In a process which comprises removing dissolved silica from an aqueous solution by contacting the solution with a strongly basic anion exchange resin containing quarternary ammonium hydroxide groups, which anion exchange resin is composed of the reaction product of a halomethylated benzene-insoluble copolymer of a monovinyl aromatic hydrocarbon and a divinyl aromatic hydrocarbon with a tertiary amine, whereby the dissolved silica is absorbed on the anion exchange resin, the step which consists in thereafter contacting the anion exchange resin with an aqueous solution of an alkali metal hydroxide in concentration of from one to four per cent by weight at a temperature of from 90° to 120° F. whereby the absorbed silica is displaced from the anion exchange resin and said resin is regenerated to its hydroxide form.

DESIGNS

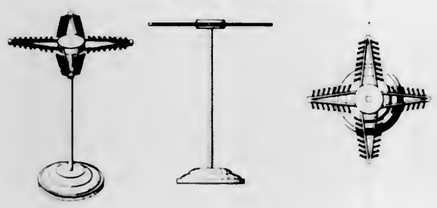
FEBRUARY 16, 1954

171,476
SHOE HEEL PROTECTOR
Clarice Chris Alberts, Los Angeles, Calif.
Application July 3, 1953, Serial No. 25,781
Term of patent 7 years
(Cl. D7—5)



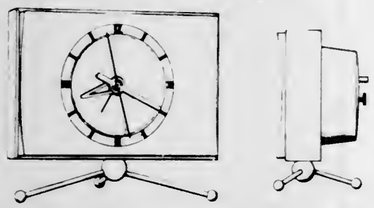
The ornamental design for a shoe heel protector, as shown.

171,477
TIE RACK
Reinhold J. Anderson, Red Oak, Iowa
Application July 6, 1953, Serial No. 25,800
Term of patent 14 years
(Cl. D80—9)



The ornamental design for a tie rack, as shown.

171,478
CLOCK
Rudolph M. Babel, Pawtucket, R. I., assignor to General Electric Company, a corporation of New York
Application September 25, 1953, Serial No. 26,958
Term of patent 14 years
(Cl. D42—7)



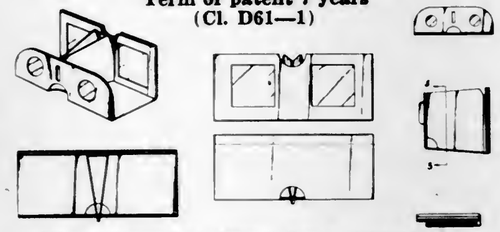
The ornamental design for a clock, as shown.

171,479
ESCUTCHEON PLATE
Henry R. Bassaraba, Chicago, Ill., assignor to The Merit Company, a corporation of Illinois
Application June 25, 1953, Serial No. 25,660
Term of patent 14 years
(Cl. D13—1)



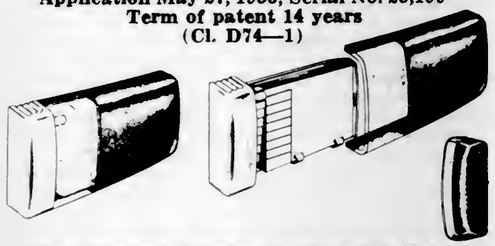
The ornamental design for an escutcheon plate, as shown.

171,480
FOLDING STEREOSCOPIC VIEWER
Robert C. Beck, Los Angeles, Calif.
Application March 16, 1953, Serial No. 24,055
Term of patent 7 years
(Cl. D61—1)



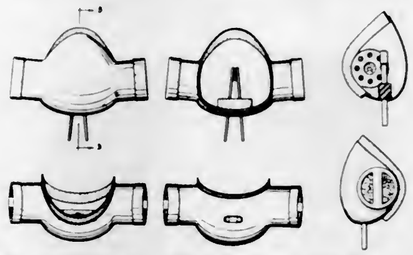
The ornamental design for a folding stereoscopic viewer, as shown.

171,481
INDEX FILE UNIT
Donald J. Behnk, Pittsburgh, Pa., assignor, by mesne assignments, to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 27, 1953, Serial No. 25,199
Term of patent 14 years
(Cl. D74—1)



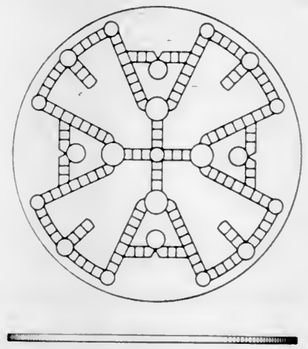
The ornamental design for an index file unit, substantially as shown and described.

171,482
RESPIRATOR
Leslie H. M. Bickel, Chula Vista, Calif.
Application August 24, 1953, Serial No. 26,562
Term of patent 14 years
(Cl. D83—1)



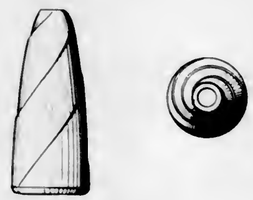
The ornamental design for a respirator, as shown and described.

171,483
GAME BOARD
Donald G. Bloesch, Chicago, Ill.
Application September 30, 1952, Serial No. 21,660
Term of patent 7 years
(Cl. D34—5)



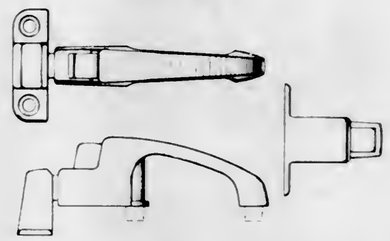
The ornamental design for a game board, as shown.

171,484
TASSEL FOR PULL CORDS
Scott R. Bond, North Plainfield, N. J., assignor to Lorentzen Hardware Mf'g Corp., New York, N. Y., a corporation of New York
Application November 21, 1952, Serial No. 22,401
Term of patent 14 years
(Cl. D21—1)



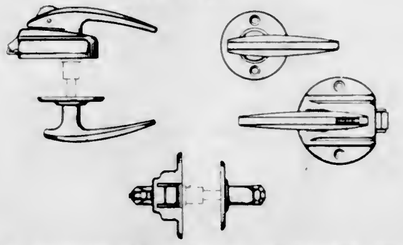
The ornamental design for a tassel for pull cords, as shown.

171,485
CABINET DOOR CATCH
Earl M. Borchers, Rockford, Ill., assignor to American Cabinet Hardware Corporation, Rockford, Illinois, Rockford, Ill., a corporation of Illinois
Application March 19, 1953, Serial No. 24,124
Term of patent 14 years
(Cl. D10—8)



The ornamental design for a cabinet door catch, as shown and described.

171,486
SURFACE MOUNT DOOR CATCH
Earl M. Borchers and Axel W. Ahlgren, Rockford, Ill., assignors to American Cabinet Hardware Corporation, Rockford, Illinois, Rockford, Ill., a corporation of Illinois
Application March 18, 1953, Serial No. 24,098
Term of patent 14 years
(Cl. D10—8)



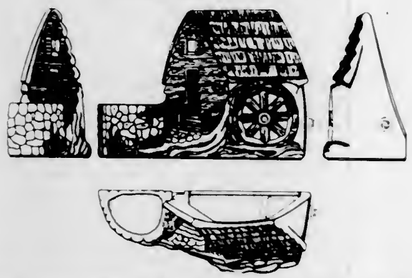
The ornamental design for a surface mount door catch, as shown and described.

171,487
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill., assignor to Bradley Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 12, 1953, Serial No. 23,571
Term of patent 3½ years
(Cl. D48—20)



The ornamental design for an electric lamp base, substantially as shown and described.

171,488
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill., assignor to Bradley Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 13, 1953, Serial No. 25,916
Term of patent 3½ years
(Cl. D48—20)



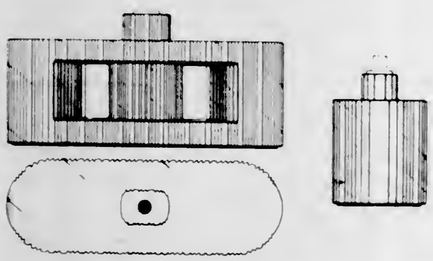
The ornamental design for an electric lamp base, substantially as shown and described.

171,489
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill., assignor to Bradley Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 22, 1953, Serial No. 26,073
Term of patent 3½ years
(Cl. D48—20)



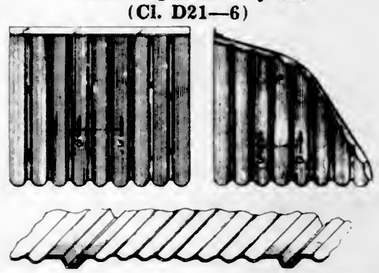
The ornamental design for an electric lamp base, substantially as shown and described.

171,490
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill., assignor to Bradley Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 22, 1953, Serial No. 26,077
Term of patent 3½ years
(Cl. D48—20)



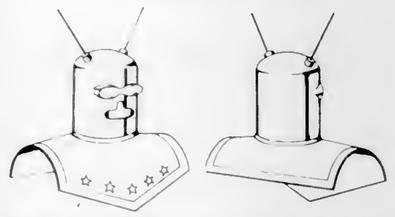
The ornamental design for an electric lamp base, substantially as shown and described.

171,491
METAL AWNING FOR A CASEMENT WINDOW
Robert A. Childers, Claud C. Miller, and Charles Smith, Houston, Tex., assignors to Childers Manufacturing Co., Houston, Tex., a corporation of Texas
Application June 19, 1952, Serial No. 20,277
Term of patent 14 years
(Cl. D21—6)



The ornamental design for a metal awning for a casement window, as shown and described.

171,492
HELMET
Walter T. Erickson and Matt J. Palmu, Superior, Wis.
Application October 2, 1953, Serial No. 27,065
Term of patent 14 years
(Cl. D3—13)



The ornamental design for a helmet, as shown.

171,493
CHAIR
Aaron S. Goldberg, Philadelphia, Pa., assignor to Bunting Glider Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 24, 1953, Serial No. 26,568
Term of patent 14 years
(Cl. D15—1)



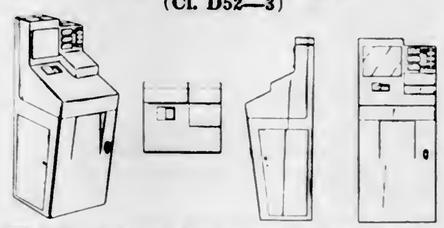
The ornamental design for a chair, substantially as shown and described.

171,494
CHAIR
Aaron S. Goldberg, Philadelphia, Pa., assignor to Bunting Glider Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 24, 1953, Serial No. 26,570
Term of patent 14 years
(Cl. D15—1)



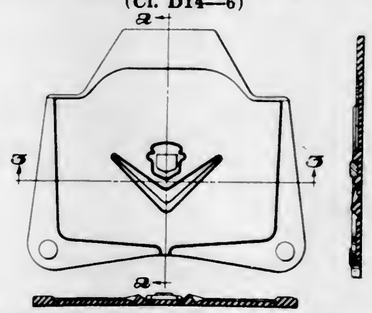
The ornamental design for a chair, substantially as shown and described.

171,495
COIN OPERATED VENDING MACHINE
Walter R. Gray, Redondo Beach, Calif., assignor to Mercury International Manufacturing Corporation, a corporation of California
Application February 20, 1953, Serial No. 23,713
Term of patent 3½ years
(Cl. D52—3)



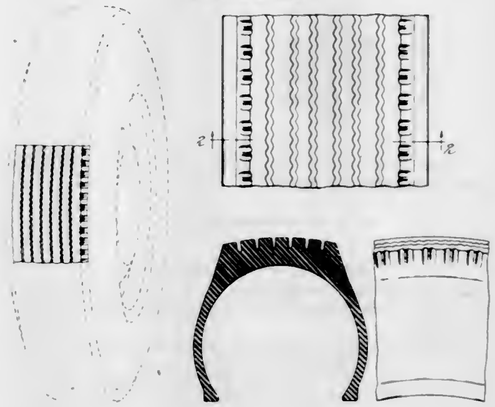
The ornamental design for a coin operated vending machine, substantially as shown.

171,496
FENDER FLAP
Michael Hallward, Swampscott, Mass., assignor to Signal Manufacturing Co., Lynn, Mass., a corporation of Massachusetts
Application September 11, 1953, Serial No. 26,771
Term of patent 14 years
(Cl. D14—6)



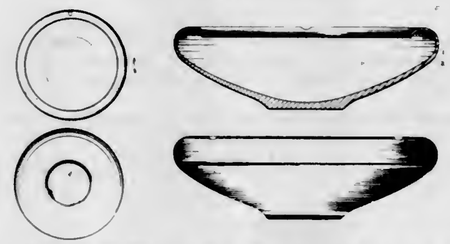
The ornamental design for a a fender flap, substantially as shown.

171,497
TIRE
Paul E. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application September 15, 1951, Serial No. 16,659
Term of patent 14 years
(Cl. D90—20)



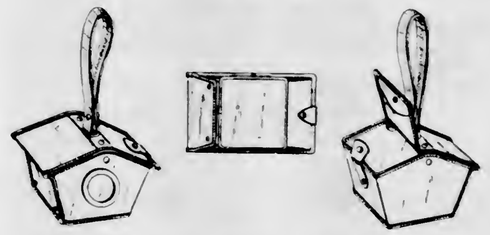
The ornamental design for a tire, as shown and described.

171,498
BOWL
Charles W. Hensley, Seneca, Mo.
Application December 6, 1952, Serial No. 22,587
Term of patent 14 years
(Cl. D44—15)



The ornamental design for a bowl, as shown.

171,499
HANDBAG
Sidney Hyman, New York, N. Y.
Application March 4, 1953, Serial No. 23,886
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a handbag, as shown.

171,500
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 3, 1953, Serial No. 26,222
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,501
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 29, 1953, Serial No. 26,990
Term of patent 7 years
(Cl. D45—19)



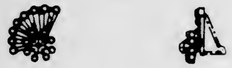
The ornamental design for a brooch or the like, substantially as shown.

171,502
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 29, 1953, Serial No. 26,994
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,503
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 29, 1953, Serial No. 26,995
Term of patent 7 years
(Cl. D45—9)



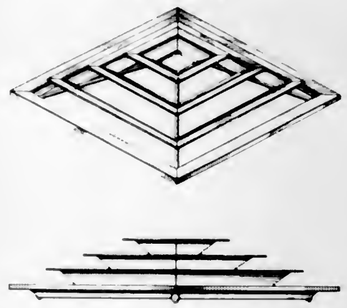
The ornamental design for an earring or the like, substantially as shown.

171,504
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application September 29, 1953, Serial No. 26,997
Term of patent 7 years
(Cl. D45—9)



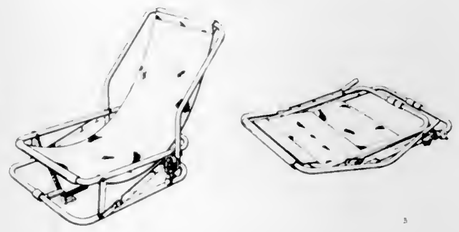
The ornamental design for an earring or the like, substantially as shown.

171,505
AIR DIFFUSER FOR CEILINGS
Leo Krueger, Tucson, Ariz.
Application August 15, 1950, Serial No. 11,768
Term of patent 14 years
(Cl. D62—4)



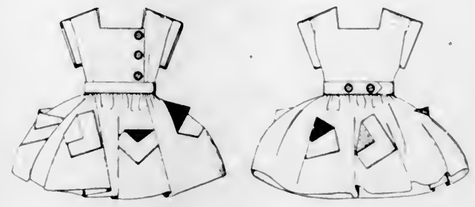
The ornamental design for an air diffuser for ceilings, as shown.

171,506
COMBINATION FOLDING CAMP, BOAT, AND LAWN CHAIR
Floyd A. Laird, Bend, Oreg.
Application June 8, 1953, Serial No. 25,380
Term of patent 14 years
(Cl. D15—1)



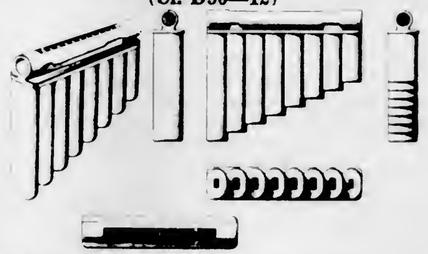
The ornamental design for a combination folding camp, boat, and lawn chair, as shown.

171,507
CHILD'S DRESS
Howard Landorf, New York, N. Y., assignor to Sam Landorf and Company, Inc., New York, N. Y.
Application February 12, 1953, Serial No. 23,570
Term of patent 3½ years
(Cl. D3—26)



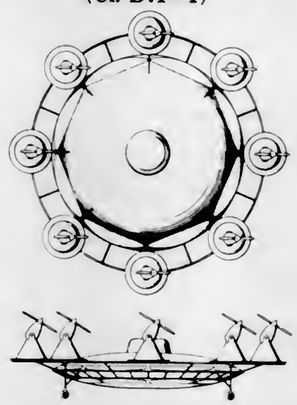
The ornamental design for a child's dress, substantially as shown.

171,508
HARMONICA
J. Edward Legler, Fresno, Calif.
Application June 26, 1953, Serial No. 25,673
Term of patent 14 years
(Cl. D56—12)

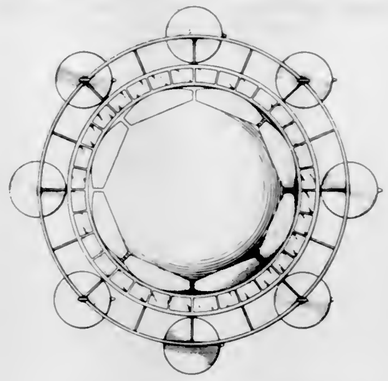


The ornamental design for a harmonica, as shown.

171,509
AIRCRAFT
Salvador Lightbourn, Los Angeles, Calif.
Application August 28, 1952, Serial No. 21,226
Term of patent 14 years
(Cl. D71—1)

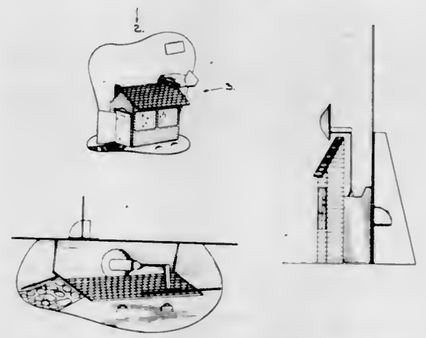


171,509—Continued



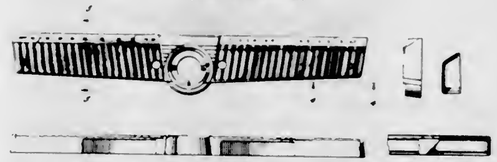
The ornamental design for an aircraft, as shown.

171,510
ADVERTISING DISPLAY OR SIMILAR ARTICLE
Elliott R. Loew, Great Neck, N. Y.
Application July 3, 1953, Serial No. 25,787
Term of patent 3½ years
(Cl. D80—1)



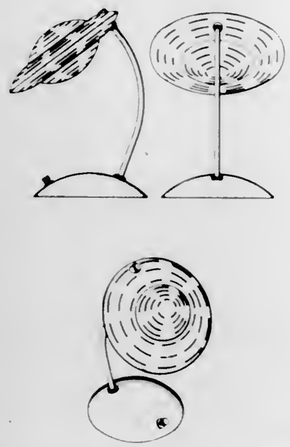
The ornamental design for an advertising display or similar article, as shown.

171,511
ESCUTCHEON PLATE FOR TELEVISION RECEIVERS
Richard C. Marholz, Chicago, Ill., assignor to Raytheon Manufacturing Company, a corporation of Delaware
Application September 20, 1952, Serial No. 21,532
Term of patent 3½ years
(Cl. D56—4)



The ornamental design for an escutcheon plate for television receivers, substantially as shown.

171,512
TABLE LAMP
Harry S. Miller, Los Angeles, Calif.
Application August 3, 1953, Serial No. 26,238
Term of patent 3½ years
(Cl. D48—20)



The ornamental design for a table lamp, as shown.

171,513
PLATE OR SIMILAR ARTICLE
Toni Olga Muench, East Liverpool, Ohio, assignor to Fisher, Bruce & Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 23, 1953, Serial No. 23,271
Term of patent 7 years
(Cl. D44—15)



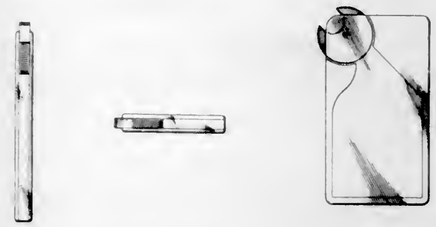
The ornamental design for a plate or similar article, as shown and described.

171,514
PLATE OR SIMILAR ARTICLE
Toni Olga Muench, East Liverpool, Ohio, assignor to Fisher, Bruce & Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 23, 1953, Serial No. 23,272
Term of patent 7 years
(Cl. D44—15)



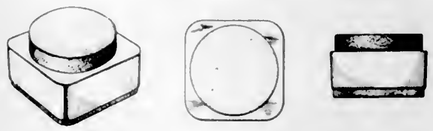
The ornamental design for a plate or similar article, as shown and described.

171,515
TABLET DISPENSER
Kenneth D. Olsen, Madison, N. J.
Application March 24, 1953, Serial No. 24,191
Term of patent 14 years
(Cl. D58—12)



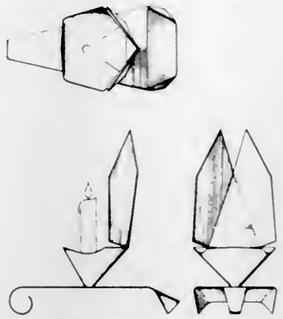
The ornamental design for a tablet dispenser, as shown.

171,516
COSMETIC CONTAINER
Carl Louis Otto, New York, N. Y., assignor to The Erno Laszlo Company, New York, N. Y.
Application August 7, 1952, Serial No. 20,937
Term of patent 14 years
(Cl. D58—12)



The ornamental design for a cosmetic container, substantially as shown and described.

171,517
CANDLESTICK
Henry Pachico, Concord, Calif.
Application May 4, 1953, Serial No. 24,817
Term of patent 3½ years
(Cl. D48—2)



The ornamental design for a candlestick, substantially as shown and described.

171,518
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application September 21, 1953, Serial No. 26,880
Term of patent 7 years
(Cl. D45—19)



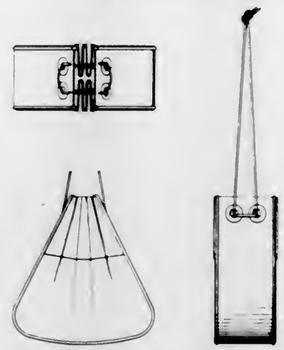
The ornamental design for a brooch or the like, substantially as shown.

171,519
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application September 21, 1953, Serial No. 26,881
Term of patent 7 years
(Cl. D45—19)



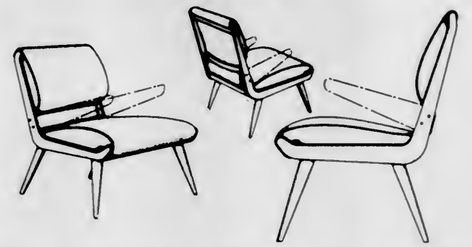
The ornamental design for a brooch or the like, substantially as shown .

171,520
LADY'S UTILITY BAG
Thomas W. Spradling, Sappington, Mo.
Application April 6, 1953, Serial No. 24,356
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a lady's utility bag, as shown and described.

171,521
UPHOLSTERED CHAIR OR SIMILAR ARTICLE
Israel Sarge Taffae, Cedarhurst, N. Y.
Application January 30, 1953, Serial No. 23,380
Term of patent 3½ years
(Cl. D15—8)



The ornamental design for an upholstered chair or similar article, substantially as shown and described.

171,522
GASKET CUTTER BLADE
Charles H. Zimmerman, Norwood, Ohio, assignor to Zimmerman Packing Company, Norwood, Ohio, a corporation of Ohio
Application December 16, 1949, Serial No. 6,677
Term of patent 14 years
(Cl. D22—3)



The ornamental design for a gasket cutter blade, substantially as shown.

February 23, 1954 Volume 679 Number 4

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

CONDITION OF PATENT APPLICATIONS UNDER EXAMINATION AT CLOSE OF BUSINESS JANUARY 29, 1954

Total number of pending applications (excluding Designs)	185, 808
Total number of pending Design applications	5, 324
Total number of applications awaiting action (excluding Designs)	106, 054
Total number of Design applications awaiting action	2, 255
Date of oldest new application	Mar. 11, 1953
Date of oldest amended application	Feb. 2, 1953

PATENT EXAMINING OPERATION ROSA, M. C., Executive Examiner PATENT EXAMINING DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION	Oldest Application New	 Amended
GROUP I. CHEMICAL AND RELATED ARTS **STONE, I. G., Supervisory Examiner**		
6. SURLE, H., Carbon Chemistry (part), e. g. Natural Resins, Proteins, Heterocyclic, Amides, Amines, General Organic Processes.	4-1-53	4-1-53
31. HUTCHISON, E. W., Mineral Oils: Carbon Chemistry (part), e. g. Urea Adducts, Silicon Containing Carbon Compounds, Hydrogenation of Carbon Oxides, Partial Oxidation of Non-Aromatic Hydrocarbon Mixtures, Hydrocarbons, Halogenated Hydrocarbons.	4-9-53	4-6-53
38. MARMELSTEIN, N., Carbon Chemistry (part), e. g. Lignins, Azo, Carbohydrate Derivatives; Carbocyclic or Acyclic Compounds (part), e. g. Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Phenols, Alcohols.	4-6-53	4-6-53
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching, Dyeing, Fluid Treatment of Textiles, Skins, and Leathers; Preserving, Sterilizing and Disinfecting (except Wood Treatment Apparatus).	4-7-53	4-8-53
50. BENGEL, W. G., Carbon Chemistry (part), e. g. Synthetic Resins, Natural or Synthetic Rubber	6-15-53	6-15-53
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	6-4-53	6-1-53
59. HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	5-1-53	4-29-53
63. WINKELSTEIN, A. W., Foods and Beverages; Carbon Chemistry (part), e. g. Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part), e. g. Pigments, Fillers, Driers, and Organic Compositions.	4-23-53	4-21-53
64. GORECKI, G. A., Fuels; Miscellaneous Compositions	4-30-53	4-30-53
GROUP II. COMMUNICATIONS, RADIANT ENERGY AND ELECTRICAL ARTS **STRACHAN, O. W., Supervisory Examiner**		
16. LOVEWELL, N. N., Television; Telephony; Recorders	3-20-53	3-17-53
23. ANDRUS, L. M., Cash and Fare Registers; Calculators and Counters; Education	4-2-53	4-3-53
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems, Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators (part), e. g. Miscellaneous Electric Control Mechanism.	5-1-53	4-23-53
37. LEVY, M. L., Electricity—Switches, Welding, Heating	5 18-53	5-11-53
42. MARANS, H., Electric Signaling; Signals and Indicators; Telegraphy; Electrical Connectors	4-29-53	4-29-53
48. BERNSTEIN, S., Electricity—Conversion Systems, Protective Systems; Measuring and Testing (except Meters); Spark Plugs and Ignition Systems, Switchboards, Relays, Magnets, Inductors, Transformers, Condensers, Transistors, Barrier Layer Rectifiers.	4-6-53	4-6-53
51. YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Piezoelectric Devices; Music	5-11-53	5-11-53
54. NILSON, R. G., Electric Lamps; Electronic Tubes; Miscellaneous Discharge Devices; Lamp, Cathode Ray and Gas Discharge Device Circuits; Ray Energy (e. g. X-Ray, Ultra-violet, Radioactive) Applications.	4-16-53	4-23-53
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Conductors; Insulators	4-29-53	4-29-53
70. BREWRINK, J. L., Explosive Weapons; Ammunition, Charges and Compositions; Explosive Charge Manufacturing; Jet Motor Processes; Torpedoes; Radar; Object Detection; Radio Antennae; Actinide Series (e. g. Fissionable) Compounds; Irradiation Chemistry; Mass Spectrometers.	3-11-53	2-27-53
GROUP III. MECHANICAL MANUFACTURING (METALS AND TEXTILES), MACHINE ELEMENTS AND DESIGNS **YUNG KWAI, B., Supervisory Examiner**		
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	3-31-53	4-9-53
12. SPINTMAN, S., Machine Elements; Engine Starters; Clutches; Interrelated Clutch and Motor Controls	4-29-53	4-29-53
13. BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part), e. g. Special Work, Forging, Plastic Working, Drawing, Sawing, Milling, Planing, Turning.	4-17-53	4-29-53
14. MANIAN, J. C., Metal Working (part), e. g. Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes.	5-11-53	5-11-53
21. MADER, R. C., Textiles	4-23-53	4-28-53
24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus; Sewing Machines; Textiles, Ironing or Smoothing.	7-3-53	7-27-53
57. MILLER, A. B. (DURHAM, B. G., Acting), Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	5-11-53	4-28-53
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	4-24-53	5-1-53
61. MORSE (Miss), E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	7-3-53	7-1-53
DESIGNS: A—BREHM, G. L., Industrial Arts	7-29-53	8-11-53
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	8-18-53	10-1-53

CONDITION OF PATENT APPLICATIONS UNDER EXAMINATION AT CLOSE OF BUSINESS JANUARY 29, 1954—Continued

PATENT EXAMINING DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION	Oldest Application New	 Amended
GROUP IV. MATERIAL HANDLING AND TREATING, OPTICS, RAILWAYS AND AMUSEMENT DEVICES **FREEHOF, H. B., Supervisory Examiner**		
7. GONSALVES, J. E., Optics, Photographic Apparatus	4-2-53	4-1-53
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	5-18-53	5-7-53
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	5-11-53	5-4-53
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	5-20-53	5-13-53
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist Line Implements.	4-3-53	4-2-53
35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet; Kitchen and Table Articles	4-23-53	4-14-53
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (except Pressure Modulating Relays, Self Proportioning Systems, Float Valves, Diaphragms and Bellows).	5-22-53	5-25-53
53. REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.	4-9-53	4-24-53
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	5-4-53	4-28-53
GROUP V. STATIC STRUCTURES AND INSTRUMENTS OF PRECISION **HULL, J. S., Supervisory Examiner**		
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	6-1-53	6-1-53
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking.	5-25-53	5-25-53
29. HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers.	5-4-53	5-1-53
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	4-20-53	4-13-53
36. McFADYEN, A. D., Measuring and Testing	5-8-53	5-6-53
40. DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages	7-1-53	7-2-53
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	4-27-53	4-23-53
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits; Shaft Packing.	5-29-53	6-2-53
66. LISANN, I., Geometric Instruments; Automatic Weighers; Weighing Scales; Acoustics	5-20-53	5-11-53
GROUP VI. AGRICULTURE, TRANSPORTATION, PUMPS AND MOTORS **MURPHY, T. F., Supervisory Examiner**		
1. GOLDBERG, A. J., Excavating; Planting; Plows; Harrows; Earth Rollers; Plant Husbandry; Scattering Unloaders; Sewerage.	4-23-53	4-27-53
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus; Elevators; Feeding of Indefinite Lengths.	5-1-53	4-30-53
5. ROBINSON, C. W., Harvesters; Potato Diggers; Stalk Pullers and Choppers; Stone Gatherers; Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates.	5-4-53	5-11-53
9. BRANSON, J. H., Pumps; Fans; Turbines	4-27-53	4-27-53
18. KURZ, J. A., Power Plants; Fluid Transmissions; Servo-motor Systems, Jet Motors; Combustion Turbines; Speed Responsive Devices, Brakes.	4-9-53	4-13-53
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling.	5-19-53	5-18-53
28. BRAUNER, R. H., Internal Combustion Engines; Expansible Chamber Motors; Fluid Servo-motors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes.	5-18-53	5-14-53
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	5-21-53	5-22-53
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles	5-4-53	5-1-53

CONDITION OF PATENT APPLICATIONS UNDER EXAMINATION AT CLOSE OF BUSINESS JANUARY 29, 1954—Continued

PATENT EXAMINING DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION	Oldest Application	
	New	Amended
GROUPS VII. BODY TREATMENT AND CARE, HEATING AND COOLING, SEPARATION AND MIXING, PLASTIC SHAPING AND COATING		
BAILEY, M. F., Supervisory Examiner		
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Alloys; Miscellaneous Heating; Coating or Plastic Compositions (part), e. g. Inorganic, Mold and Mold Coating Compositions.	5-13-53	5-11-53
15. BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass	5-6-53	5-6-53
19. PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners	4-6-53	4-1-53
25. NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus.	6-1-53	5-27-53
30. O'LEARY, R. A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidostats; Illuminating Burners; Fluid Sprinkling, Spraying and Diffusing.	6-3-53	6-8-53
32. BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.	5-18-53	5-18-53
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	5-4-53	4-27-53
55. KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors.	3-23-53	3-12-53
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making	5-27-53	5-15-53

The following divisions have been abolished: 10, 44, 46, 60, 65 and 68.

Number of new applications received during month of January 1954

PATENTS 5,431 DESIGNS 442 REISSUES 15 TOTAL 5,888

CONDITION OF TRADE-MARK APPLICATIONS UNDER EXAMINATION AT CLOSE OF BUSINESS JANUARY 29, 1954

Total number of pending applications (including renewals and republications)	26, 999
Total number of applications awaiting action (including renewals and republications)	12, 648
Date of oldest new application	Aug. 21, 1953
Date of oldest amended application	Aug. 22, 1953

TRADE-MARK EXAMINING OPERATION MERCHANT, JOHN, Executive Examiner TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest Application	
	New	Amended
KALK, C. A., Supervisory Examiner		
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	8-22-53	8-22-53
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	8-26-53	8-24-53
Renewals (All Classes)	11-9-53	12-21-53
Republications (All Classes)	9-8-53	9-15-53
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	8-21-53	8-24-53
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	8-24-53	8-28-53

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE BRIGHT

No. 5996. Decided November 24, 1953

[—F.2d—: 100 USPQ 49]

PATENTABILITY—PARTICULAR SUBJECT MATTER—METHOD OF PRODUCING ELASTIC ADHESIVE SHEETS.

Certain claims to a method of producing elastic adhesive sheets *Held* allowable over the cited prior art and a certain other claim *Held* properly rejected on the prior art.

APPEAL from the Patent Office. Serial No. 45,903.

MODIFIED AND REMANDED.

Dos T. Hatfield (*Rowland V. Patrick* and *H. L. Kirkpatrick* of counsel) for Bright.

E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

Before GARRETT, *Chief Judge*, and O'CONNELL, JOHNSON, WORLEY, and COLE, *Associate Judges*

GARRETT, *Chief Judge*, delivered the opinion of the court.

GARRETT, *Chief Judge*:

Appellant here seeks review and reversal of the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting all the claims, three in number, of appellant's application for patent, Serial No. 45,903, filed August 24, 1948, for "Methods of Producing Elastic Adhesive Sheets."

The claims read:

3. The method of adhering a pressure-sensitive adhesive material soluble in a solvent chosen from the group consisting of volatile hydrocarbon and halogenated hydrocarbon solvents to a self-supporting film consisting essentially of a solid ethenoid polymer which is insoluble in the solvents of said group under normal conditions, and which corresponds to the empirical formula:

$$(-CH_2-CH_2-)_x(-CH(R_3)-C(R_1)(R_2)-)_y$$

where R_1 is hydrogen or an alkyl group; and R_2 and R_3 are mono-valent radicals falling within the group hydrogen, alkyl, phenyl, substituted phenyl, vinyl, substituted vinyl; and the ratio x : y exceeds 1 : 5; comprising applying said pressure-sensitive adhesive material to said film in a solvent of the said group and subjecting the applied solvent-carried adhesive and film to a temperature above the threshold of solubility of the ethenoid polymer in the chosen solvent but below the melting point thereof and driving off said solvent.

5. The method as claimed in claim 3, wherein the ethenoid polymer is molecularly oriented and the temperature to which the applied solvent-carried adhesive and film are subjected does not exceed 170° F.

6. The method as claimed in claim 5, wherein the ethenoid polymer is polyethylene and the pressure-sensitive adhesive material comprises polybutene.

It is noted that claim 6 is dependent on claim 5, which in turn is dependent on claim 3.

Claim 3 is not happily phrased. This fact is recognized in the brief for appellant which states, inter alia:

In the claims the ethenoid polymer is defined by a complicated chemical structure to cover other ethenoid polymers besides the species polyethylene. However, for the purposes of this appeal all the claims may be considered as if they were directed to polyethylene alone, since the Patent Office has raised no question of the propriety of the broader definition, and if the claim is allowable for polyethylene, it is allowable in the broader form.

The brief then sets forth a form of claim with the statement that for the purpose of this appeal claim 3 may be read as though it followed such form.

Appellant's suggestion that if the claim is allowable for polyethylene it is allowable in the broader form does not impress us as logical. So far as this case is concerned, it is conceded that if claim 3 be found allowable, claims 5 and 6 are allowable, but it is not true that patentability of the broad claim would necessarily follow from a finding of patentable matter in the specific claims.

So far as the form of the claim is concerned, we must consider what the Board had before it. However, inasmuch as the form indicates the interpretation which appellant himself placed upon claim 3, we here reproduce it:

The method of adhering a pressure-sensitive adhesive material soluble in a solvent chosen from the group consisting of volatile hydrocarbon and halogenated hydrocarbon solvents to a self-supporting film consisting essentially [of polyethylene] which is insoluble in the solvents of said group under normal conditions; comprising applying . . . said pressure-sensitive adhesive material to said film in a solvent of the said group and subjecting the applied solvent-carried adhesive and film to a temperature above the threshold of solubility of the [polyethylene] in the chosen solvent but below the melting point thereof and driving off said solvent.

The Primary Examiner rejected the claims on three distinct and separate grounds, to wit:

(1) As unpatentable over Patent No. 2,395,419, issued to James A. Mitchell February 26, 1946;
(2) As unpatentable over Patent No. 2,429,861, issued to Richard G. Woodbridge III October 28, 1947;
(3) As unpatentable, in view of the Woodbridge patent, over Patent No. 2,462,977, issued to Kitchen & Dyke as joint inventors, March 1, 1949.

The Board of Appeals of the Patent Office disagreed as to both the second and third grounds, saying (after some discussion of the two patents named in those grounds), "We will, therefore, not sustain the rejection of the claims on Woodbridge or on Kitchen et al. in view of Woodbridge."

Vol. 679 • No. 4 Tuesday, February 23, 1954 Price $30.00 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $30.00 per annum, foreign mailing $8.50 additional; single numbers, 75 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

The TRADE-MARK SUPPLEMENT to the OFFICIAL GAZETTE, issued weekly, subscription price, $19.00 per annum; single copies, 45 cents each. DECISION LEAFLETS, subscription price, $3.75 per year; single copies, 10 cents each.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

By reason of the foregoing action of the Board, the brief of the Solicitor for the Patent Office states:

• • •, the sole issue before the court is whether error was committed by the Board of Appeals in affirming the rejection of the claims as unpatentable over Mitchell.

The Board, in fact, related certain matters from the Woodbridge patent immediately following its statement that it would not sustain the Primary Examiner's rejection over the Woodbridge patent, nor that on Kitchen et al. in view of Woodbridge. The matters so related, however, do not seem to us to bring Woodbridge into the case as a reference and we do not further consider the Woodbridge patent.

As we understand claim 3, it is required that there be to begin with a basic physical element, or backing material with a pressure-sensitive adhesive material affixed thereon in which there is formed a composition which constitutes what, in the claim, is called a "self-supporting film," or a "solid ethenoid polymer."

Another requirement is that the "pressure-sensitive adhesive material" be soluble in a solvent and that the "self-supporting film" be insoluble in such solvent under normal conditions. The solvent itself is required to be one "chosen from the group of volatile hydrocarbons and halogenated hydrocarbon solvents." The Primary Examiner construed "normally insoluble" as meaning "insoluble at ordinary room temperature," and this construction apparently conforms to appellant's specification. In claim 6, the "self-supporting film" required by claim 3 is stated to be polyethylene, and the "pressure-sensitive adhesive," also required by claim 3, is stated to comprise polybutene. No specifically named solvent is mentioned in any one of the claims, but toluene is specifically named in an example given in appellant's specification and that, we understand from the record and argument, is the particular solvent used by appellant.

The foregoing constitutes the materials upon which appellant's method operates.

The method itself—the subject matter for which the patent is sought—comprises three procedural steps, viz., (*a*) applying (the claim uses the term "adhering") the "pressure-sensitive adhesive material" [polybutene specific to claim 6] to the "self-supporting film" [polyethylene specific to claim 6]; (*b*) subjecting the film with the adhesive firmly fixed upon it to a temperature which, as limited in claim 5 does not exceed 170° F., but which is broadly defined in claim 3 as "a temperature above the threshold of solubility of the ethenoid polymer in the chosen solvent but below the melting point thereof"; and, (*c*) driving off said solvent.

In the specification of appellant's application it is said:

• • • For the purposes of this invention temperature threshold of solubility is defined as that temperature at which the solubility of the ethenoid polymer is .1% by weight in the particular solvent chosen.

The specification teaches that the pressure-sensitive adhesive is "firmly affixed to the backing element with sufficient tenacity to permit the tape to be handled in roll or sheet form in the same manner as any ordinary industrial or surgical pressure-sensitive adhesive tape." The function of the temperature range defined in the second step seems, from the specification, to be that of producing an "interface" between the backing and the pressure-sensitive adhesive which forms a coating for the backing by causing the hydrocarbon solvent to attack and interact with the base so that there is produced a mutual dissolution of the adhesive and the backing before the solvent is driven off the composition. As stated in substance in the brief of the Solicitor for the Patent Office, claim 3 does not recite any numerical value of any temperature. The range is defined only as being "above the threshold of solubility of the ethenoid polymer but below the melting point thereof," meaning, as we understand it, that the range begins at the point where the temperature is just sufficient to render the ethenoid polymer soluble enough to be "sticky" but not sufficient to melt it.

Driving the solvent off the composition, which apparently is effected by the higher range of heat, dries the moisture from the composition and the finished product, stated in the title of the application to be "Elastic Adhesive Sheets," results.

Hereinbefore, a form of claim suggested in the brief for appellant has been quoted because it was regarded by us as appellant's interpretation of claim 3. That suggested form, in effect, limited the self-supporting film to polyethylene which is not named in claim 3, but is named in claim 6.

The brief of the Solicitor for the Patent Office points out that:

• • • If the base material be considered to be polyethylene as appellant suggests, then patentable novelty in the claim is predicated primarily *upon the temperature range defined*, to produce the mutual dissolution of adhesive and base material, called the interface by appellant. [Italics supplied by us.]

As we understand the foregoing, it means that the *matter of temperature* is the predominant factor respecting the here alleged invention. That seems to us to be correct.

The first paragraph of the Mitchell patent states:

This invention relates to the manufacture of pressure-sensitive sheets or tapes. It relates more specifically to the use of a coating on the back side of the sheet or tape to reduce the adhesion of the tacky coating thereto when the product is formed into a roll package or into stacks.

We quote from the decision of the Board all that is there said concerning the Mitchell patent:

The patent to Mitchell discloses the production of pressure-sensitive adhesive to various backings, the specific examples being backings of regenerated cellulose, cellulose acetate and polyvinyl alcohol. The pressure-sensitive adhesive material is of the same nature as that applied by appellant to his backing. The solvent of the specific examples is toluene, which is a hydrocarbon. The coating is dried with air at 100° C. It is stated in this patent that the backing material may be other than those of the specific examples, among these others being mentioned polyethylene.

• • • • • • •

As to the patent to Mitchell, we consider that this patent discloses the application of pressure-sensitive adhesive to a self-supporting solid polyethylene polymer film. Appellant discloses that the melting points of his polyethylene polymers are greater than 212° F. and preferably range between 212° F. to 350° F. It seems to us that the claimed method of adhering pressure-sensitive adhesive to a support is not patentably different from that disclosed in the Mitchell patent. Since Mitchell clearly uses a solvent solution of pressure-sensitive adhesive and dries in air at 100° C. when using toluene as a solvent, it seems clear that he uses a temperature of 100° C. or less when applying the coating solution onto the support and if the same temperature is used when polyethylene polymer constitutes the support, the claims are met. The temperature of 100° C. meets the terms of the temperature definition of claim 3 and we do not consider the specific temperature of claims 5 and 6 to constitute a patentable differentiation thereover. From the Mitchell patent it seems obvious not to use a temperature that approaches or is too near the melting point of the supporting film as such higher temperatures would obviously distort the film and give an undesired product. The treating temperature is obviously dependent on the specific solvent used and the melting point of the particular polyethylene polymer used as the supporting film. We consider that the optimum temperature to be used is within the purview of the man skilled in the art. In view of the foregoing considerations, we will sustain the rejection of the claims on the Mitchell patent.

From the above it is obvious that the Board found disclosure in the Mitchell patent of polyethylene as one, among many, of the materials which might be used in a relationship similar to the relationship in which appellant teaches it may be used.

That finding of the Board is not challenged in any of the Reasons of Appeal to this court. Its correctness may be verified easily by reading the Mitchell specification.

The heart of the issue, therefore, as is stated in effect in the brief of the Solicitor for the Patent Office, relates to temperature, the question being whether the temperature claimed by appellant renders the claims patentable over the temperature disclosed in the Mitchell patent.

The calculations appearing in the Board's decision, supra, with respect to the temperature disclosures in the Mitchell patent and the comparisons of those disclosures with the relevant matter in claim 3 has been carefully studied and we are not convinced that the Board erred in the finding upon the basis of which that claim was rejected.

We do not find, however, that the Mitchell patent discloses the use of a maximum temperature of 170° F. to which the composition of solvent-carried adhesive and film is subject. That appears to be a critical step in appellant's method. In our opinion, that is a step not obvious to those skilled in the art. Claim 6, being dependent upon claim 5, the temperature limitation of claim 5 is a part of claim 6. We are of opinion that claims 5 and 6 are allowable.

In view of our action relative to claim 3, it will be necessary to formulate proper introductory phraseology for claims 5 and 6 and the case will be remanded to the Patent Office for that purpose.

The decision of the Board of Appeals is modified, in that it is affirmed as to claim 3, and reversed as to claims 5 and 6. The case is remanded to the Patent Office for the purpose herein expressed.

MODIFIED AND REMANDED.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

1,952,230, G. V. Anderson, Automatic profile milling machine, C. C. A., 6th Cir. (Grand Rapids), Doc. 11716, *The Cincinnati Milling Machine Co.* v. *Manuel Turchan*. Degree of lower court affirmed Nov. 24, 1953.

1,989,487, F. H. McCormick, Door catches; 2,158,881, same, Ranges, filed Aug. 8, 1941, D. C., S. D. Ohio (Cincinnati), Doc. 381, *Edison General Electric Appliance Co., Inc.* v. *The Estate Stove Co. et al.* Dismissed with prejudice (notice Nov. 27, 1953).

2,009,376, W. H. Frank, Electrical distribution system; 2,088,105, Frank & Harper, same; 2,287,502, Togesen & Fisher, same; 2,372,267, W. H. Frank et al., same, filed Apr. 7, 1952, D. C., S. D. Ohio (Cincinnati), Doc. 2858, *Bulldog Electric Products Co.* v. *Continental Electric Equipment Co., Inc., et al.* Patents 2,088,105 and 2,009,376 withdrawn and complaint dismissed as to said patents; Patent 2,287,502 held not infringed by defendants, and Patent 2,372,267 held invalid for want of novelty, Nov. 20, 1953.

2,088,105. (See 2,009,376.)

2,155,867, B. D. McIntyre, Sway bar; 2,194,832, same, Stabilizer for vehicles, filed Mar. 11, 1953, D. C., E. D. Mich. (Detroit), Doc. 12558, *Monroe Auto Equipment Co.* v. *Borg-Warner Corp.* Stipulation and order of dismissal (notice Dec. 3, 1953).

2,158,881. (See 1,989,487.) 2,194,832. (See 2,155,867.)

2,287,502. (See 2,009,376.) 2,372,267. (See 2,009,376.)

2,401,451, R. G. Arey, Making jack plugs, filed Aug. 7, 1953, D. C., S. D. N. Y., Doc. 87/109, *Ralph G. Arey* v. *American Radio Hardware Co., Inc.* Stipulation and order of discontinuance Nov. 27, 1953.

2,437,959, M. Horowitz, Poultry blinder clip, filed Dec. 4, 1953, D. C. N. J. (Camden), Doc. 1014/53, *The Harwood Co.* v. *Rudolph Poultry Equipment Co. et al.*

2,518,297, M. D. Ercolino, High frequency antenna, filed Nov. 2, 1950, D. C., S. D. N. Y., Doc. 62/92, *Telrex, Inc.* v. *H. L. Dalis, Inc.* Stipulation and order of dismissal (notice Dec. 2, 1953).

2,553,625, R. P. Andersen, Sand blast, filed Nov. 25, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 16090, *William A. Higginson* v. *Robert Andersen Machine Co.*

2,566,287, L. H. Finneburgh, Jr., Television antenna system; 2,630,531, same, Television antenna; 2,635,599, same, All band television antenna, filed Nov. 25, 1953, D. C., N. D. Ill. (Chicago), Doc. 53C2308, *The Finney Co. et al.* v. *Interstate Electronics, Inc., et al.*

2,569,512, E. W. Bottum, Air humidifier and mounting means therefor for application to duct walls, filed Dec. 1, 1953, D. C., E. D. Mich. (Detroit), Doc. 13071, *Skuttle Mfg. Co.* v. *Auto-Flo Corp.*

2,574,886, H. Phillips, Fluorescent lighting fixture having means to center and align the fixture on a support, filed Dec. 11, 1951, D. C., S. D. Ohio (Cincinnati), Doc. 2796, *Oscar Phillips Co.* v. *Cincinnati Industrial Finishing Co.* Consent decree holding claims invalid; complaint dismissed Nov. 25, 1953.

2,579,256, B. Guidice, Skate clamps, filed Nov. 25, 1953, D. C., S. D. N. Y., Doc. 89/292, *Sure Grip Safety Skate Clamp Corp. et al.* v. *K & K Supply Co., Inc., et al.*

2,583,745, R. Miller, High-frequency antenna, filed Nov. 30, 1953, D. C., N. D. Ill. (Chicago), Doc. 53C2321, *Hi-Lo TV Antenna Corp.* v. *Midwest Naturlite Co. et al.*

2,630,531. (See 2,566,287.)

2,652,312, A. Fink, Dental impression material, filed Nov. 27, 1953, D. C., N. D. Calif. (San Francisco), Doc. 33205, *Dental Perfection Co.* v. *L. D. Caulk Co.*

2,652,583, A. C. Tomanica, Suction brush having removable brush units for cleaning Venetian blinds, filed Nov. 25, 1953, D. C., N. D. Ill. (Chicago), Doc. 53C2309, *Andrew C. Tomanica* v. *Sears, Roebuck & Co.*

2,655,599. (See 2,566,287.)

Des. 161,886, M. O. Weisbrod, Optometric mirror, filed Oct. 19, 1953, D. C., N. D. Ill. (Chicago), Doc. 53C2070, *Martin O. Weisbrod* v. *New Era Optical Co.* Consent decree granting injunction against defendant Nov. 24, 1953.

Des. 168,368, C. J. Olson et al., Awning, filed Nov. 27, 1953, D. C., N. D. Ill. (Chicago), Doc. 53C2313, *Ray-O-Lite Corp. of America et al.* v. *Kool-Lite, Inc., et al.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 97,192, White Star Canning Co., Tuna fish and pure olive oil, etc., filed Dec. 1, 1953, D. C., S. D. N. Y., Doc. 89/335, *Van Camp Sea Food Co., Inc.* v. *Gencomex Trading Co.*

T. M. 314,869, T. M. 319,013, Clover Farm Stores Corp., Canned fruit and vegetables; T. M. 506,345, same, Clothes line; T. M. 507,431, same, Matches; T. M. 509,759, same, Toothpicks; T. M. 513,143, same, Lye, laundry bleaching solution, etc.; T. M. 513,814, same, Paper napkins, etc., T. M. 519,234, same, Soaps and powder; T. M. 519,295, same, Clothes pins; T. M. 520,046, T. M. 522,655, same, Paper and wooden plates, spoons and forks; T. M. 545,814, same, Self-polishing floor wax; T. M. 555,802, same, Non-alcoholic, noncereal, maltless carbonated beverages, etc.; T. M. 326,478, T. M. 326,832, Foodland, Inc., Canned fruits, vegetables, salmon, spices, etc.; T. M. 341,785, same, Canned dog food, filed Dec. 2, 1953, D. C., N. D. N. Y. (Utica), Doc. 5076, *Foodland, Inc.* v. *Foodland Stores, Inc., et al.*

T. M. 319,013. (See T. M. 314,869.)

T. M. 326,478. (See T. M. 314,869.)

T. M. 326,832. (See T. M. 314,869.)

T. M. 341,785. (See T. M. 314,869.)

T. M. 501,833, C. McGinley, Weekly newspaper, filed July 27, 1951, D. C., S. D. N. Y., Doc. 68/241, *Conde McGinley* v. *Freethinkers of America et al.* Defendants enjoined Dec. 6, 1951; order of discontinuance Nov. 30, 1953.

T. M. 506,345. (See T. M. 314,869.)

T. M. 507,431. (See T. M. 314,869.)

T. M. 509,759. (See T. M. 314,869.)

T. M. 513,143. (See T. M. 314,869.)

T. M. 513,814. (See T. M. 314,869.)

T. M. 519,234. (See T. M. 314,869.)

T. M. 519,295. (See T. M. 314,869.)

T. M. 520,046. (See T. M. 314,869.)

T. M. 522,655. (See T. M. 314,869.)

T. M. 545,814. (See T. M. 314,869.)

T. M. 555,802. (See T. M. 314,869.)

NOTICES

Abolition of Division 46

Effective January 4, 1954, Division 46 is abolished and coincident therewith the following transfers of classes are ordered:

Class 20, Wooden Buildings
Subclasses 11, 12, 16 thru 72, from Division 46 to Division 53

Class 65, Kitchen and Table Articles
From Division 46 to Division 35

Class 122, Liquid Heaters and Vaporizers
From Division 46 to Division 19

Class 137, Fluid Handling
Subclasses 386 thru 454, from Division 46 to Division 32

Class 159, Concentrating Evaporators
From Division 46 to Division 19

Class 169, Fire Extinguishers
From Division 46 to Division 32

Class 189, Metallic Building Structures
Subclasses 45 thru 78, from Division 46 to Division 53

Class 224, Package and Article Carriers
From Division 53 to Division 29

ROBERT C. WATSON,
Commissioner of Patents.

Registration to Practice

The following list contains the names of all applicants for registration to practice before the United States Patent Office who attained passing grades in the examination of October 26, 1953. Information tending to affect the eligibility of any of said applicants on moral or ethical grounds should be furnished the Commissioner of Patents on or before March 25, 1954.

ARTHUR W. CROCKER,
Feb. 2, 1954. *Chairman, Committee on Enrollment.*

List of Applicants Who Passed the Examination for Registration to Practice Before the Patent Office Held October 26, 1953

Alabama

Burts, Theron E., Jr., P. O. Box 741, Florence, Ala.
Thompson, Woodford R., Jr., 703 Title Guarantee Bldg., Birmingham 3, Ala.

California

Bremer, Richard G., 1812 Edgewood Lane, Menlo Park, Calif.
Briggs, James W., 3224 Sawtelle Blvd., Los Angeles 34, Calif.
Brown, Ernest L., 7809 Botany St., Downey, Calif.
Brown, Robert C., 415 N. El Molino St., Pasadena 4, Calif.
Coker, Frank B., United Geophysical Co., Inc., Box M, Pasadena 15, Calif.
Foster, Dirks B., 1223 S. Gunlock Ave., Compton, Calif.
Hohbach, Harold C., 620 Market St., Rm. 201, San Francisco, Calif.

Loehr, Leslie K., 10584 Dunleer Drive, Los Angeles 64, Calif.
MacDonald, Thomas S., Patent Section, North American Aviation, Inc., Downey, Calif.
McRae, Donald J., 807 Craft Ave., El Cerrito, Calif.
Rockowitz, Jerome B., 722 Ensenada Court, San Diego 8, Calif.
Sherrard, Thomas D., 431 Granger Bldg., San Diego 1, Calif.
Tjensvold, Arnt H., 634 Miramar Ave., San Francisco, Calif.
Turner, Perry E., 1533½ Greenfield Ave., Los Angeles 25, Calif.

Connecticut

March, Arthur A., 58 Beacon Court, Bridgeport, Conn.

Delaware

Ryan, Dennis L., Jr., Rm. 13033A Du Pont Bldg., Wilmington, Del.

District of Columbia

Ahern, Frank L., Jr., 5408 41st St., N. W., Washington 4, D. C.
Corbin, Douglas T., Apt. 201, 2901 Connecticut Ave., N. W., Washington, D. C.
Dooley, James L., 1457 Clifton St., N. W., Washington, D. C.
Doyle, Francis X., 1800 Shepherd St., N. E., Washington 18, D. C.
Edgerton, John D., 2925 Glover Driveway, N. W., Washington 16, D. C.
Elliott, William J., Rm. 840, 1435 G St., N. W., Washington, D. C.
Forman, James R., 4585 MacArthur Blvd., N. W., Washington 7, D. C.
Furman, Herbert, 3432A Brown St., N. W., Washington 10, D. C.
Gastel, Joseph P., 3416 10th Place, S. E., Washington 20, D. C.
Hansel, Roger L., 414 Jefferson St., N. W., Washington 11, D. C.
Hedges, William E., 1114 National Press Bldg., Washington, D. C.
Hoffmann, Robert G., % Y. M. C. A., 1736 G St., N. W., Washington, D. C.
Jackson, Harold L., 840 Washington Bldg., Washington 5, D. C.
Junkins, Philip Dexter, 840 Washington Bldg., Washington 5, D. C.
Knight, Gearry L., Jr., 840 Washington Bldg., Washington 5, D. C.
Lackey, Harrington A., 1457 Clifton St., N. W., Washington, D. C.
Lang, Richard V., 617 19th St., N. W., Washington, D. C.
Norton, Edward J., 1819 G St., N. W., Washington 6, D. C.
Regan, John V., 4234 4th St., S. E., Washington, D. C.
Robinson, Thomas A., 2022 Columbia Road, N. W., Washington 9, D. C.
Shain, Harold, 1114 National Press Bldg., Washington 4, D. C.
Strausser, Robert E., 1200–03 Walker Bldg., 734 15th St., N. W., Washington, D. C.
Van Landingham, Leander S., Jr., 708 19th St., N. W., Washington, D. C.

Illinois

Burgener, Karl L., 546 S. Euclid, Villa Park, Ill.
Calabrese, Joseph P., 3104 N. 78th Ave., Elmwood Park 35, Ill.
Clark, Jarrett R., Rm. 2828, One N. La Salle St., Chicago 2, Ill.
Dominik, Jack E., One N. La Salle St., Chicago, Ill.
Dorn, Thomas E., 1842 S. Euclid Ave., Berwyn, Ill.
Dvorak, George F., 1625 S. 58th Court, Cicero 50, Ill.
Fallon, Jerome F., 220 Home Ave., Oak Park, Ill.
Hansen, Milt, 4417 N. Central Park Ave., Chicago 25, Ill.
Harman, Floyd B., Crystal Vista, Crystal Lake, Ill.
Mann, John M., 344 Radcliffe Way, Hinsdale, Ill.
Mason, Lloyd W., 315 Wisconsin ,Oak Park, Ill.
McDougal, Jack E., 5521 S. Union Ave., Chicago 21, Ill.
Nicolls, Keith K., 990 Waverly Road, Glen Ellyn, Ill.
Olson, Arthur A., Jr., 77 W. Washington Blvd., Chicago, Ill.
Serijan, Kasper T., 11000 S. Ridgeway Ave., Chicago 43, Ill.
Teichert, Robert D., 4753 N. Magnolia, Chicago 40, Ill.
Tracy, James E., 3407 W. 83d St., Chicago 29, Ill.
Whitesel, James T., 5716 W. Grand Ave., Chicago 39, Ill.
Wilson, Don R., 20 McIntosh St., Clarendon Hills, Ill.

Indiana

Franz, Bernard E., R. R. 5, Box 138, Crown Point, Ind.
Jeffers, Albert L., 2429 Lillie St., Fort Wayne, Ind.
Young, John A., Box 393, University of Notre Dame, Notre Dame, Ind.

Maryland

Garvey, George A., 4846 Chevy Chase Drive, Chevy Chase 15, Md.
Larsen, Jack, 928 Northampton Drive, Silver Spring, Md.
Messenheimer, Alva D., 2005 Woodberry St., Hyattsville, Md.
Semmes, John G., Cabin John, Md.
Swick, Bernhard R., 5118 72d Place, Hyattsville, Md.

Massachusetts

Baranick, Wilfred J., 572 Adams St., East Milton, Mass.
Boyajian, Aram, 55 Stratford Ave., Pittsfield, Mass.
Dexter, Roland A., Sprague Electric Co., North Adams, Mass.
Greenfield, George L., 24 Oakland Road, Sharon, Mass.
Grover, James H., 19 Appleton St., Cambridge 38, Mass.
Rost, Edgar O., Bomac Laboratories, Inc., Salem Road, Beverly, Mass.
Seems, Eugene G., 13 Country Drive, Beverly, Mass.

Michigan

Burton, Ralph M., 2020 Dime Bldg., Detroit 26, Mich.
Lewis, Dwight A., 24328 Boston, Dearborn, Mich.
McCollum, Robert E., % General Motors Corp., Patent Section, Detroit 2, Mich.
Morriss, William J., 301–B S. Clinton, St. Johns, Mich.
O'Malley, Paul W., Essex Wire Corp., 37 Manchester Ave., Detroit 3, Mich.
Potoroka, Walter, Sr., 37154 Hancock Drive, Mount Clemens, Mich.
Sieberth, John F., 17575 Annchester, Detroit 19, Mich.
Van Meter, Theodore, 24711 Rensselaer, Oak Park 37, Mich.
Wagner, Willard F., 16633 Santa Rosa, Detroit 21, Mich.
Wasson, George W., 403 Eastlawn Ave., Detroit 15, Mich.
White, John L., Patent Law Dept., The Upjohn Co., Kalamazoo, Mich.

Minnesota

Granrud, Robert E., 2007 Itasca Ave., St. Paul 5, Minn.
Jensen, Roger W., 2612 Garfield Ave. S., Minneapolis 8, Minn.

Missouri

Hepp, Joseph T., 111 Anderson, St. Charles, Mo.
Leavitt, Donald G., 818 Olive St., St. Louis 1, Mo.

New Jersey

Brenner, Edward J., Colfax Manor, Apt. 11D, Roselle Park, N. J.
Da Rin, Edward J., 3732–A Herbert Ave., Pennsauken, N. J.
Dinardo, Jerry A., Princeton-Hightstown Road, Princeton Junction, N. J.
Driver, James O., 143 Jefferson Road, Princeton, N. J.
Farrell, Edward M., 222 Chestnut Ave., Woodlynne, N. J.
Green, Joseph R., 10 Park Place, Cranbury, N. J.
Hall, Homer J., Standard Oil Development Co., P. O. Box 243, Elizabeth, N. J.
Horton, Thomas B., 16 Park Drive, Livingston, N. J.
McGlew, John J., 8611 Fifth Ave., North Bergen, N. J.
Kolin, Henry, 730 Colfax Ave., Pompton Lakes, N. J.
Palmer, William D., 38 Willow St., Glen Ridge, N. J.
Richard, Clarence C., Jr., 197 Moore St., Princeton, N. J.
Robinson, Edward A., Grape Run Road, Hightstown, N. J.
Rosen, Albert, 42 Chestnut St., Princeton, N. J.
Strimbeck, Lee A., Apt. 11–A, Parkway Village, Cranford, N. J.
Weisz, Paul B., 112 Lexington Ave., Pitman, N. J.
Westlake, Harry E., Jr., Calco Chemical Division, American Cyanamid Co., Bound Brook, N. J.
Williams, James J., % W. L. Connolly, R. D. 3, Princeton, N. J.
Winter, Lawrence J., 8 Knapp Ave., Florham Park, N. J.

New Mexico

Hamann, H. Fredrick, P. O. Box 224, Los Alamos, N. Mex.

New York

Bollinger, Howard M., Curtis, Morris & Safford, 60 East 42d St., New York 17, N. Y.
Cole, Stanley Z., 50 Strathmore Circle, Rochester 9, N. Y.
Dobrovolny, Frank J., Lower Mountain Road, Ransomville, N. Y.
Evans, J. Hart, 30 East 42d St., New York 17, N. Y.
Gage, Henry H., 11 Seneca St., Webster, N. Y.
Greenside, Ernest, 107 Belmill Road, Bellmore, Long Island, N. Y.
Henderson, Robert H., 29 Harrison Ave., Lynbrook, N. Y.
Holmes, Paul R., 37 West St., Fairport, N. Y.
Koerber, Joe L., 25 Roosevelt Ave., Poughkeepsie, N. Y.
Koeser, George J., 109—05 72d Ave., Forest Hills 75, N. Y.
Kramer, Jack F., 2229 Ocean Ave., Brooklyn 29, N. Y.
Lucas, William D., 108 Brite Ave., Scarsdale, N. Y.
Lu Kacher, Martin, 1512 Lincoln Place, Brooklyn 13, N. Y.
Marks, Charles, 2128 82d St., Brooklyn 14, N. Y.
Mayer, Robert W., 63—60 102d St., Rego Park, Long Island, N. Y.
Moore, Stewart F., 75 Edgars Lane, Hastings-on-Hudson, N. Y.
Murtha, John R., 42 87th St., Brooklyn 9, N. Y.
Parker, Walter J., Jr., 685 Chilton Ave., Niagara Falls, N. Y.
Perlman, Burton, 40 Exchange Place, New York 5, N. Y.
Previto, Joseph J., 1346 Gates Ave., Brooklyn 21, N. Y.
Quinlan, John C., 2570 Briggs Ave., Bronx 58, N. Y.
Reichert, Robert J., 480 81st St., Niagara Falls, N. Y.
Roberts, Alan K., 150—40 73d Ave., Flushing 67, N. Y.
Routh, John W., 45 Bronxville Road, Bronxville, N. Y.
Sayre, Norman D., 195 W. 10th St., New York 14, N. Y.
Scheck, Frank F., 247 Park Ave., New York 17, N. Y.
Schwinger, Howard M., 1440 E. 7th St., Brooklyn 30, N. Y.

Stephens, Richard G., 129 Helen St., Binghamton, N. Y.
Vogel, George T., 1730 Harrison Ave., New York 53, N. Y.
Weiss, Eli, 326 St. Johns Place, Brooklyn 38, N. Y.
Wetzel, James M., Bell Telephone Laboratories, Inc., 463 West St., New York 14, N. Y.
Wood, James J., % General Electric Co., Electronics Park, Syracuse, N. Y.

North Carolina

Carnes, Julian E., Jr., 908 Johnston Bldg., Charlotte 2, N. C.
Rabin, David, College of Engineering, Duke University, Durham, N. C.

Ohio

Bremer, Howard W., 8658 Daly Road, Cincinnati 31, Ohio.
Grafton, Thomas H., 271 E. Broadway, Toledo, Ohio.
Johns, Lee P., Frease & Bishop, Harter Bank Bldg., Canton 2, Ohio.
Pere, John G., 2143 Pressler Road, R. F. D. #2, East Akron 12, Ohio.

Oklahoma

Coleman, Robert B., Jr., Phillips Apt., Bartlesville, Okla.
Dunn, Robert E., 807 E. 11th St., Bartlesville, Okla.
Kuhn, Cedric H., 216 Limestone Road, Bartlesville, Okla.
Wolfe, James D., 3522 East 6th St., Tulsa, Okla.

Oregon

Eckelman, Eugene M., 717 Corbett Bldg., Portland 4, Oreg.

Pennsylvania

Bartsch, Charles E., 1001 Foss Ave., Drexel Hill, Pa.
Drew, Roger J., 5911 Howe St., Pittsburgh 32, Pa.
Murray, Everett H., Jr., 106 Owens Lane, Wayne, Pa.
Rehberg, Chessie E., 213 Tyson Ave., Glenside, Pa.
Turchetti, Anthony J., 2018 Locust St., Philadelphia 3, Pa.

Tennessee

Walker, John R., III, 1179 West Perkins Road, Memphis 17, Tenn.

Texas

Baer, Martin S., 8330 Howard Drive, Houston 17, Tex.
Heneveld, Lloyd A., P. O. Box 2819, Dallas, Tex.
Troldi, Frank S., Humble Oil & Refining Co., Houston 1, Tex.
Ulmer, James G., 1600 Esperson Bldg., Houston, Tex.

Virginia

Arseneau, Paul F., 3030 Buchanan St., Fairlington, Va.
Buckley, Robert B., 6607 Williamsburg Blvd., Arlington, Va.
Cullen, Garrett J., Jr., 220 N. Piedmont St., Arlington, Va.
Kline, Robert C., 2808 S. Wakefield St., #1, Arlington, Va.
Plantamura, Arthur J., 2865 S. Buchanan St., Arlington, Va.
Renfro, Julian C., 4634 28th Road South, Apt. 4, Arlington, Va.
Robbins, Frank E., Jr., 6713 Little Falls St., Arlington 13, Va.
Roley, Robert N., 411 Rucker Place, Alexandria, Va.
Rose, Neil M., 3048 S. Abingdon St., Arlington, Va.
Smith, Donald J., 100 E. Braddock Road, Alexandria, Va.
Vary, Willis L., 104 E. Glendale Ave., Alexandria, Va.

Wisconsin

Cummins, Richard E., 7529 W. Madison St., West Allis, Wis.
Hohenfeldt, Ralph G., 2972 S. 57th St., Milwaukee 14, Wis.
Procter, Clifford R., 3470 N. 78th St., Milwaukee 16, Wis.

Erratum

All references to Patent No. 2,668,747 to Robert S. E. Hannay and William Kilby, assignors to Standfast Dyers & Printers Limited, for Process and Apparatus for Dyeing or Performing Related Processes Upon Textile Using Molten Metal appearing in the OFFICIAL GAZETTE of February 9, 1954, should be deleted as the application was withdrawn from issue and the patent was not issued.

Letters Calling Attention to Errors in Patents

Effective March 1, 1954, letters which merely call attention to errors in patents, with a request that the letter be made of record in the patented file, will not be acknowledged. Unless notification to the contrary is received within thirty days, it may be assumed that such letters have been made of record as requested.

ARTHUR W. CROCKER,
Feb. 8, 1954. *Assistant Commissioner of Patents.*

Adjudicated Patents

(C. A. Mich.) Anderson Patent No. 1,952,230, for an automatic profile milling machine. Claims 13, 46, and 67 *Held* not infringed. *The Cincinnati Milling Machine Company* v. *Turchan*, 208 F.2d 222; 99 USPQ 366.

(C. A. N. Y.) Bucky Patent No. 2,239,379, for a self-focusing and illuminating device for photographic cameras, *Held* not infringed. *Bucky et al.* v. *Sebo et al.*, 208 F.2d 304; 99 USPQ 357.

(C. A. N. Y.) Bucky Patent No. 2,292,044, for illumination for cameras, *Held* not infringed. *Id.*

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abercrombie & Fitch Company, New York, N. Y. Catalogs. Serial No. 619,181, Feb. 23. Class 38.
Abramowitz, Curt E., Brooklyn, N. Y. Washing compound. Serial No. 617,178, Feb. 23. Class 52.
Acme Limestone Company, Fort Spring, W. Va. Finely ground high calcium limestone. Serial No. 647,131, Feb. 23. Class 1.
Admiral Corporation, Chicago, Ill. Dehumidifiers and humidifiers, and room air conditioners. Serial No. 652,043, Feb. 23. Class 34.
Ahlmann-Carlshütte Kommanditgesellschaft, Rendsburg, Germany. Metal castings. Serial No. 643,018, Feb. 23. Class 14.
Aids Development Company, Inc., Cleveland, Ohio. Appliance for measuring and indicating the adjustment of ink supply control elements, etc. Serial No. 614,478, Feb. 23. Class 26.
Air Controls, Inc., Cleveland, Ohio. Air circulating fans. Serial No. 640,711, Feb. 23. Class 34.
Akron Brass Mfg. Company, Inc., Wooster, Ohio. Hose line couplings. Serial No. 636,331, Feb. 23. Class 13.
Aldon Rug Mills, Inc., Philadelphia, Pa. Textile tufted rugs and carpets. Serial No. 640,896, Feb. 23. Class 42.
All Channel Antenna Corporation, Woodside, N. Y. Insulated cable. Serial No. 651,429, Feb. 23. Class 21.
Alliance Color and Chemical Co., Newark, N. J. Dyestuffs. Serial No. 650,569, Feb. 23. Class 6.
Alpha Mills Corporation, Schuylkill Haven, Pa. Women's underwear. Serial No. 652,006, Feb. 23. Class 39.
American Artists Group, Inc., New York, N. Y. Greeting cards, Christmas cards, and greeting and Christmas card box assortments. Serial No. 644,206, Feb. 23. Class 38.
American Chemical Paint Company, Ambler, Pa. Chemical composition for producing protective non-metallic chemical coatings on metallic surfaces. Serial No. 638,464, Feb. 23. Class 16.
American Cyanamid Company, New York, N. Y. Rewetting agent and a softener. Serial No. 636,914, Feb. 23. Class 6.
American Cyanamid Company, New York, N. Y. Defoamer. Serial No. 643,999, Feb. 23. Class 6.
American Cyanamid Company, New York, N. Y. Rosin size, soluble wax, softener, etc. Serial No. 647,387, Feb. 23. Class 6.
American & Efird Mills, Inc., Mount Holly, N. C. Yarn. Serial No. 642,592, Feb. 23. Class 43.
American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, New York, N. Y., and Philadelphia, Pa. Penicillin, dihydrostreptomycin and streptomycin. Serial No. 649,758, Feb. 23. Class 18.
American Journal of Nursing Company, New York, N. Y. Printed periodical publication. Serial No. 631,713, Feb. 23. Class 38.
American Machine & Foundry Company, New York and Cheektowaga, N. Y. Bowling pin and ball handling apparatus. Serial No. 608,052, Feb. 23. Class 22.
American Machinery Corporation, Orlando, Fla. Edible wax coating material. Serial No. 651,797, Feb. 23. Class 16.
Angelo Bros. Limited, Calcutta, India. Shellacs and lacs in flake form as raw and partly prepared materials. Serial No. 621,799, Feb. 23. Class 1.
Angelo Bros. Limited, Calcutta, India. Shellacs and lacs in flake form as raw and partly prepared materials. Serial No. 621,801, Feb. 23. Class 1.
Anglo-French Drug Company Ltd., Montreal, Quebec, Canada. Medication. Serial No. 647,901, Feb. 23. Class 18.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Soap. Serial No. 643,812, Feb. 23. Class 52.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Lipstick, rouge and nailpolish. Serial No. 650,343, Feb. 23. Class 51.
Associated Seed Growers, Incorporated, New Haven, Conn. Grass seed. Serial No. 642,605, Feb. 23. Class 1.
Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany. Dyestuffs. Serial No. 651,085, Feb. 23. Class 6.
Baker Paper Company, Oshkosh, Wis. Tablets and notebook fillers. Serial No. 651,209, Feb. 23. Class 37.
Baker, Wade, Burley, Idaho. Spreaders adapted to be attached to or mounted on a motor vehicle. Serial No. 624,322, Feb. 23. Class 23.
Bear Mill Manufacturing Co., Inc., New York, N. Y. Piece goods. Serial No. 651,211, Feb. 23. Class 42.
Beauregard, Louis, Burbank, Calif. Key chain. Serial No. 640,143, Feb. 23. Class 28.
Bergeron, Victor J., San Francisco, Calif. Portable barbecue oven. Serial No. 646,453, Feb. 23. Class 34.
Blair Corset Co., Inc., Chicago, Ill. Ladies' girdles and panty girdles. Serial No. 652,162, Feb. 23. Class 39.
Blair Corset Company, Inc., Chicago, Ill. Girdles, and knitted panties. Serial No. 621,809, Feb. 23. Class 39.
Blendax-Werke R. Schneider & Co., Mainz, Germany. Tooth-paste. Serial No. 640,903, Feb. 23. Class 51.
Blissfield Manufacturing Company, Blissfield, Mich. Refrigerating apparatus. Serial No. 629,151, Feb. 23. Class 31.
Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics. Serial No. 646,651, Feb. 23. Class 42.
Boles-Aero, Inc., also doing business under the firm name and style of Boles Mfg. Co., Burbank, Calif. Trailer coaches. Serial No. 647,150, Feb. 23. Class 19.
Boles Mfg. Co.: *See*—
Boles-Aero, Inc.
Bothe, Walter E., Foods, Incorporated, Bloomington, Ill. Canned potato salad. Serial No. 651,316, Feb. 23. Class 46.
Breck, John H., Inc., Springfield, Mass. Soap preparation. Serial No. 566,377, Feb. 23. Class 52.
Bridgeport Brass Company, Bridgeport, Conn. Insecticides. Serial No. 627,250, Feb. 23. Class 6.
Bristol Laboratories Inc., New York and Syracuse, N. Y. Cold remedy. Serial No. 642,521, Feb. 23. Class 18.
Brooks Brothers, Inc., New York, N. Y. Men's clothing. Serial No. 650,682, Feb. 23. Class 39.
Brown-Brockmeyer Company, The, Dayton, Ohio. Electrical motors. Serial No. 633,530, Feb. 23. Class 21.
Brown, L. S., Company, Atlanta, Ga. House trailer awnings. Serial No. 642,613, Feb. 23. Class 50.
Brown-Vaughan Co., San Francisco, Calif. Medicated soap compound. Serial No. 643,634, Feb. 23. Class 52.
Buchanan, Robert F., Denver, Colo. Incinerators. Serial No. 651,564, Feb. 23. Class 34.
Buckner Process Company, Worcester, Mass. Felt pads. Serial No. 625,397, Feb. 23. Class 50.
Bulova Watch Company, Inc., New York, N. Y. Watches. Serial No. 636,767, Feb. 23. Class 27.
Callahan Zinc-Lead Company, Inc., Amesbury, Mass. Wire reinforced fabric hose. Serial No. 652,377, Feb. 23. Class 35.
Canvas Specialty Company, New York, N. Y. Insulated bags. Serial No. 598,002, Feb. 23. Class 2.
Capitol Records, Inc., Los Angeles, Calif. Grooved phonograph records. Serial No. 650,487, Feb. 23. Class 36.
Carborundum Company, The, Niagara Falls, N. Y. Refractory parts. Serial No. 616,759, Feb. 23. Class 23.
Carrozzeria Pinin Farina, Corso Trapani, Turin, Italy. Automobile bodies. Serial No. 634,520, Feb. 23. Class 19.
Cetesel S. A. R. L., Milan, Italy. Chemical preparation. Serial No. 639,416, Feb. 23. Class 6.
Chemical Foundation, Inc., The, New York, N. Y. Insect repellent compositions. Serial No. 620,335, Feb. 23. Class 6.
Chemical Specialties Co., Inc., New York, N. Y. Medicinal hormone preparation. Serial No. 635,403, Feb. 23. Class 18.
Choldun Manufacturing Corporation, New Haven, Conn. Power-operated high pressure liquid pumping unit. Serial No. 625,522, Feb. 23. Class 23.
Ciba Limited, Basel, Switzerland. Coal tar colors. Serial Nos. 650,688–9, Feb. 23. Class 6.
Cleon Products, Inc., Phoenix, Ariz. Neon sign control. Serial No. 634,890, Feb. 23. Class 21.
Cleveland Aerosol Packaging Corporation, Cleveland, Ohio. Deodorant for garbage cans. Serial No. 650,093, Feb. 23. Class 6.
Cluett, Peabody & Co., Inc., Troy, N. Y. Men's outer shirts. Serial No. 623,822, Feb. 23. Class 39.
Coating Products, New York, N. Y. Metallized cellulose acetate and polystyrene sheets and rolls, etc. Serial No. 623,042, Feb. 23. Class 1.
Collins Chemical Co. Inc., New York, N. Y. Flavoring preparations. Serial No. 616,202, Feb. 23. Class 46.
Colonial Manufacturing Company, Zeeland, Mich. Console tables, step-up tables, tea wagons, etc. Serial No. 635,903, Feb. 23. Class 32.
Colonial Poultry Farms, Inc., Pleasant Hill, Mo. Live poultry and baby chicks. Serial No. 651,091, Feb. 23. Class 1.
Colonial Products Company, Dallastown, Pa. Wood base and wall kitchen cabinets, tables, etc. Serial No. 645,955, Feb. 23. Class 32.
Commercial Enclosed Fuse Company of New Jersey, Guttenberg, N. J. Electrical fuses. Serial Nos. 651,903–4, Feb. 23. Class 21.
Corning Glass Works, Corning, N. Y. House organ. Serial No. 642,623, Feb. 23. Class 38.
Cranguyma Farms: *See*—
Myers, Guy C.
Dan River Mills, Incorporated, Danville, Va. Cotton chambray fabrics. Serial No. 645,780, Feb. 23. Class 42.
Davidson, MacGregor & Company, Limited, London, England. Parts of textile machinery. Serial No. 637,915, Feb. 23. Class 23.

Davis & Geck, Inc., Brooklyn, N. Y. Surgical ligatures and sutures. Serial No. 646,204, Feb. 23. Class 44.
Davis, Nelson L., Company, Chicago, Ill. Coal and ore dressing and treating unit. Serial No. 627,868, Feb. 23. Class 23.
Dick, A. B., Company, Niles, Ill. Coated paper lithographic printing plates, etc. Serial No. 623,502, Feb. 23. Class 37.
Dirigo Sales Corporation, Boston, Mass. Blend of edible colloids, gelose, and albumen in a carrier base. Serial No. 627,871, Feb. 23. Class 46.
Dodge & Olcott, Inc., New York, N. Y. Masking odorants. Serial No. 646,657, Feb. 23. Class 6.
Donley-Evans & Company, St. Louis, Mo. Medicine, a non-absorbable sulfonamide. Serial No. 635,876, Feb. 23. Class 18.
Drew, E. F., & Co., Inc., New York, N. Y. Liquid composition used for impregnating textile fibers. Serial No. 650,360, Feb. 23. Class 6.
Duplan Corporation, The, New York, N. Y. Textile yarns. Serial No. 637,917, Feb. 23. Class 43.
du Pont, E. I., de Nemours and Company, Wilmington, Del. Synthetic musk. Serial No. 650,161, Feb. 23. Class 6.
Durst, S. F., & Company, Inc., Philadelphia, Pa. Medicinal preparation. Serial No. 641,028, Feb. 23. Class 18.
Eagle Pencil Company, New York, N. Y. Wood encased copying or indelible lead pencils. Serial No. 578,846, Feb. 23. Class 37.
Eidelman Bros., Detroit, Mich. Linoleum paste, wallboard paste, asphalt emulsions, etc. Serial No. 648,655, Feb. 23. Class 5.
Elmco Corporation, The, Salt Lake City, Utah. Power-driven loaders. Serial No. 578,442, Feb. 23. Class 23.
Electrical Fittings Corporation, Woodside, N. Y. Obrotund conduit bodies and accessories therefor. Serial No. 641,611, Feb. 23. Class 21.
Electrolog Corporation, Brooklyn, N. Y. Automatic computers. Serial No. 651,570, Feb. 23. Class 26.
Emerson Industries, Inc., St. Albans, N. Y. Storm windows, storm doors, louver windows, etc. Serial No. 645,640, Feb. 23. Class 12.
Engineered Products Company, The, Flint, Mich. Magnetic catches. Serial No. 634,895, Feb. 23. Class 13.
Erbtone, Inc., Nashua, N. H. Laxative herb tablets. Serial No. 652,457, Feb. 23. Class 18.
Ewing, Ray, Company, Inc., The, Pasadena, Calif. Vitamin preparation. Serial No. 625,264, Feb. 23. Class 18.
Farmwell Welded Products Company, Ixonia, Wis. Agricultural spray equipment. Serial No. 634,685, Feb. 23. Class 23.
Finch, Joseph S., and Company, assignee: *See*—
United Distillers (of America) Ltd.
Fisher Laboratories: *See*—
Fisher, Tommie.
Fisher, Tommie, doing business under the name of Fisher Laboratories, Chicago, Ill. Liquid liniment. Serial No. 647,410, Feb. 23. Class 18.
Flite-Tronics, Inc., Burbank, Calif. Aircraft marker beacon receiver. Serial No. 635,912, Feb. 23. Class 26.
Ford Motor Company, Dearborn, Mich. Motor cars. Serial No. 652,517, Feb. 23. Class 19.
Freewax Corporation, Tallahassee, Fla. Self polishing floor wax. Serial No. 620,846, Feb. 23. Class 4.
Garber, Guy S., Jr., Saginaw, Mich. Garment or apparel clasp. Serial No. 632,929, Feb. 23. Class 40.
Garden City Plating & Mfg. Co., Chicago, Ill. Components and fittings for construction of convertible merchandise display fixtures. Serial No. 651,445, Feb. 23. Class 13
Gavrin Tabulating Forms, Inc., New Rochelle, N. Y. Interleaved business forms. Serial No. 633,541, Feb. 23. Class 37.
General Metals Corporation, San Francisco, Calif. Pipe fittings, pipe couplings, and pipe nipples. Serial No. 651,511, Feb. 23. Class 13.
General Paint & Varnish Company Inc., doing business as Kwikote Products, Chicago, Ill. Liquid brush cleaner. Serial No. 637,121, Feb. 23. Class 52.
General Tire & Rubber Company, The, Akron, Ohio. Rigid plastic forms like tile. Serial No. 629,664, Feb. 23. Class 12.
Glenbrook Chemical Company, Inc., New Haven, Conn. Deodorant preparation for space, industrial, commercial, institutional, and household use. Serial No. 643,154, Feb. 23. Class 6.
Glidden Company, The, Cleveland, Ohio. Limed rosin. Serial No. 650,169, Feb. 23. Class 1.
Goldstein's, L., Sons, Inc., Philadelphia, Pa. Babbitt metal, solder wire, solder bars, etc. Serial No. 638,531, Feb. 23. Class 14.
Goodall-Sanford, Inc., Sanford, Maine. Piece goods. Serial No. 646,384, Feb. 23. Class 42.
Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Acoustic panels. Serial No. 643,314, Feb. 23. Class 12.
Gorham Manufacturing Company, Providence, R. I. Sterling silver flatware and table cutlery. Serial No. 638,849, Feb. 23. Class 28.
Gotham Industries, Inc., New York, N. Y., and Chicago, Ill. Christmas tree ornaments. Serial No. 629,487, Feb. 23. Class 50.
Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Billfolds, key cases, hand luggage, etc. Serial No. 640,206, Feb. 23. Class 3.
Greenbros, Inc., Cincinnati, Ohio. Alcoholic blackberry cordial. Serial No. 636,565, Feb. 23. Class 49.
Green Thumb Products, Toledo, Ohio. Trellises. Serial No. 635,533, Feb. 23. Class 50.
Hadley, Charles R., Company, Los Angeles, Calif. Partially printed forms and blank checks. Serial No. 601,728, Feb. 23. Class 37.
Haeger Potteries, Inc., The, Dundee, Ill. Electric lamps. Serial Nos. 615,830–1, Feb. 23. Class 21.
Halberg Machinefabriek N. V., Weert, Netherlands. Typewriters. Serial No. 643,680, Feb. 23. Class 23.
Hall-Neal Furnace Company, Indianapolis, Ind. Warm air heating furnaces with air conditioning units, etc. Serial No. 652,190, Feb. 23. Class 34.
Hancock, William E., Los Angeles, Calif. Artificial fishing lures. Serial No. 637,870, Feb. 23. Class 22.
Harris, Incorporated, Miami, Fla. Monthly publication. Serial No. 637,125, Feb. 23. Class 38.
Heald Machine Company, The, Worcester, Mass. Periodical publication. Serial No. 618,452, Feb. 23. Class 38.
Holco Manufacturing Co.: *See*—
Holder, Daniel D.
Holder, Daniel D., doing business as Holco Manufacturing Co., Newark, N. J. Finishing varnish. Serial No. 645,416, Feb. 23. Class 16.
House of Swansdown, Inc., The, New York, N. Y. Woolen and worsted fabrics. Serial No. 645,711, Feb. 23. Class 42.
Hoyt Co., Inc., New York, N. Y., and Memphis, Tenn. Cologne. Serial No. 637,377, Feb. 23. Class 51.
Hydraulic Power Equipment Company: *See*—
Johnston, Dwight A.
Hy-Grade Sportswear Co. Inc., New York, N. Y. Men's sport suits and coats, casual suits and coats, etc. Serial No. 618,453, Feb. 23. Class 39.
Imperial Paper and Color Corporation, Glens Falls, N. Y. Fluorescent pigment colors. Serial No. 646,769, Feb. 23. Class 6.
Isoleringsaktiebolaget WMB, Goteborg, Sweden. Heat insulating materials. Serial No. 641,729, Feb. 23. Class 12.
Isoleringsaktiebolaget WMB, Goteborg, Sweden. Perforated acoustical tiles. Serial No. 641,731, Feb. 23. Class 12.
Ives-Cameron Company, Inc., New York, N. Y. Hematinic. Serial No. 651,919, Feb. 23. Class 18.
Jacobson, F., & Sons, Inc., New York, N. Y. Men's pajamas. Serial No. 540,999, Feb. 23. Class 39.
Jergens, Andrew, Company, The, Cincinnati, Ohio. Face powder and cream make-up. Serial No. 648,249, Feb. 23. Class 51.
Johnston, Dwight A., doing business as Hydraulic Power Equipment Company, North Lima, Ohio. Hydraulic power units. Serial No. 637,824, Feb. 23. Class 23.
Kayser, Julius, & Co., New York, N. Y. Gloves. Serial No. 646,220, Feb. 23. Class 39.
Kayser, Julius, & Co., New York, N. Y. Lingerie. Serial Nos. 652,619–20, Feb. 23. Class 39.
Kelite Products, Inc., Los Angeles, Calif. Chemical compound. Serial No. 650,257, Feb. 23. Class 6.
Kimball, Lewis, Inc., Portland, Oreg. Formulated chemical paint and varnish additive. Serial No. 648,109, Feb. 23. Class 16.
Kimberly-Clark Corporation, Neenah, Wis. Fiber products in the form of sheets, creped wadding, and fluff. Serial No. 638,651, Feb. 23. Class 1.
Kimberly-Clark Corporation, Neenah, Wis. Blank paper, wrapping paper, and all-purpose paper tissues. Serial No. 638,652, Feb. 23. Class 37.
Kinzler, K., New York, N. Y. Rope, twine, and cord. Serial No. 646,674, Feb. 23. Class 7.
Kohler Co., Kohler, Wis. Internal combustion engines. Serial No. 651,265, Feb. 23. Class 23.
Kousin Jewelry Company, Inc., New York, N. Y. Finger rings. Serial No. 647,505, Feb. 23. Class 28.
Krause, Chas. A., Milling Co., Milwaukee, Wis. Gelatinized wheat flour used as an adhesive. Serial No. 650,372, Feb. 23. Class 5.
Kwikote Products: *See*—
General Paint & Varnish Company Inc.
L & S Laboratories, Inc., Fremont, Nebr. Preparations in liquid and cream form for home permanent waving of the hair. Serial No. 610,279, Feb. 23. Class 51.
Lake States Yeast Corporation, Rhinelander, Wis. Lignin preparation. Serial No. 650,263, Feb. 23. Class 6.
Lamar Pipe and Tile Company, Grand Rapids, Mich. Concrete pipe. Serial Nos. 648,254–5, Feb. 23. Class 12.
Lami-Glas Products Company, Detroit, Mich. Awning. Serial No. 640,943, Feb. 23. Class 12.
Lancome, S. A., Paris, France. Perfume, eau de cologne and toilet water. Serial No. 630,501, Feb. 23. Class 51.
Lavador Mfg. Co.: *See*—
Stelzer, Otto E.
Lawter Chemicals, Inc., Chicago, Ill. Fluorescent paint. Serial No. 605,429, Feb. 23. Class 16.
Lazarus Laboratories, Inc., Division of West Disinfecting Company, Buffalo, N. Y. Preparation or composition used as a liquid detergent germicide cleaner. Serial No. 646,143, Feb. 23. Class 52.

LeGear, Dr. L. D., Medicine Company, St. Louis, Mo. Streptomycin sulfate oral veterinary granules. Serial No. 650,112, Feb. 23. Class 18.
Libbey-Owens-Ford Glass Company, Toledo, Ohio. Semi-rigid plastic sheets. Serial No. 645,996, Feb. 23. Class 12.
Lien Chemical Company, Franklin Park, Ill. Insecticide. Serial No. 637,258, Feb. 23. Class 6.
Little League Baseball, Inc., New York, N. Y. Young boys' T shirts and sweatshirts. Serial No. 650,188, Feb. 23. Class 39.
Long, Vincent P., Omaha, Nebr. Detergent. Serial No. 640,043, Feb. 23. Class 52.
Louisville Tin and Stove Company, Louisville, Ky. Refrigerators. Serial No. 638,961, Feb. 23. Class 31.
Lyon Metal Products, Incorporated, Aurora, Ill. Drawing tables, and accessories. Serial No. 635,777, Feb. 23. Class 26.
Magazine Publishers, Inc., Chicago, Ill. Comic magazines. Serial No. 647,020, Feb. 23. Class 38.
Manhattan Shirt Company, The, New York, N. Y. Men's outer shirts. Serial No. 638,965, Feb. 23. Class 39.
Marathon Corporation, Menasha, Wis. Paper adhesive tape. Serial No. 648,768, Feb. 23. Class 5.
Mardi Fabrics Co., New York, N. Y. Fabric piece goods. Serial No. 647,431, Feb. 23. Class 42.
Markel Electric Products, Inc., Buffalo, N. Y. Electrically heated clothes hamper. Serial No. 651,457, Feb. 23. Class 21.
Martin, Bob, (Export) Limited, Southport, England. Poultry and pig conditioners and medicinal preparations. Serial No. 639,650, Feb. 23. Class 18.
Martin, James, & Co., Limited, Edinburgh and Leith, Edinburgh, Scotland. Scotch whisky. Serial No. 627,760, Feb. 23. Class 49.
Mason & Mason, Inc., Chicago, Ill. Root beer. Serial No. 639,947, Feb. 23. Class 45.
Mattie Dress Co., New York, N. Y. Ladies' wearing apparel. Serial No. 646,301, Feb. 23. Class 39.
McBee Company, The, Athens, Ohio. Statistical and accounting cards, blank checks, and partially printed business forms. Serial No. 543,618, Feb. 23. Class 37.
McGraw Electric Company, Chicago, Ill. Electrical transformers. Serial No. 651,844, Feb. 23. Class 21.
Metalab Equipment Corp., Hicksville, N. Y. Furniture. Serial No. 583,543, Feb. 23. Class 32.
Midcontinent Chemical Company, Grove City, Ohio. Slabs of material used in connection with making shoe soles. Serial No. 643,173, Feb. 23. Class 1.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Paint-like protective coating. Serial No. 566,995, Feb. 23. Class 16.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Flurochemicals. Serial No. 650,454, Feb. 23. Class 6.
Miracle-Vac, Inc., Miami, Fla. Hair dryer. Serial No. 652,467, Feb. 23. Class 44.
Mogavero, Maurice, doing business as Star-Brite Mfg. Co., Newark, N. J. Jewelry and gem cleaning fluid. Serial No. 637,456, Feb. 23. Class 52.
Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Textile rugs and carpets. Serial Nos. 650,267–9, Feb. 23. Class 42.
Monarch Mills, Union and Lockhart, S. C. Textile fabrics. Serial No. 640,297, Feb. 23. Class 42.
Moore, Benjamin, & Co., New York, N. Y. Ready mixed paints, enamels, varnishes, and surface primers. Serial No. 631,364, Feb. 23. Class 16.
Myers, Guy C., doing business as Cranguyma Farms, Long Beach, Wash. Fruits and vegetables. Serial No. 637,604, Feb. 23. Class 46.
National Pigment Company, Inc., Philadelphia, Pa. Exothermic chemical additive. Serial No. 651,119, Feb. 23. Class 6.
New England Distilling Company, The: *See*—
Schenley Distillers, Inc.
Norfolk Hatchery, Norfolk, Nebr. Hatchery chicks. Serial No. 639,072, Feb. 23. Class 1.
Norland, Daniel O., Cypress, Calif. Lawn sprinklers. Serial No. 646,417, Feb. 23. Class 13.
North American Commercial Corporation, New York, N. Y. Textile fabrics. Serial No. 647,799, Feb. 23. Class 42.
O. E. M. Corporation, East Norwalk, Conn. Apparatus for treatment of pulmonary ailments. Serial No. 652,295, Feb. 23. Class 44.
Ocean Front Cottage Association, Inc., Daytona Beach, Fla. Suntan lotion. Serial No. 645,252, Feb. 23. Class 51.
Optical Gaging Products, Inc., Rochester, N. Y. Chartgages, screens, rules, etc. Serial No. 651,464, Feb. 23. Class 26.
Ottavia Incorporated, New York, N. Y. Curtain clips. Serial No. 651,354, Feb. 23. Class 13.
Owens-Corning Fiberglas Corporation, Toledo, Ohio. Thermal insulation. Serial No. 644,341, Feb. 23. Class 12.
Panellit, Inc., Chicago, Ill. Panel boards with integrated diagrams, etc. Serial No. 636,429, Feb. 23. Class 26.
Parke, Davis & Company, Detroit, Mich. Surgical sponges. Serial No. 643,360, Feb. 23. Class 44.
Pease Woodwork Company, Inc., Cincinnati, Ohio. Weather stripped window units. Serial No. 627,007, Feb. 23. Class 12.
Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Chemical substances. Serial No. 650,532, Feb. 23. Class 6.
Pep Boys—Manny, Moe & Jack, The, Philadelphia, Pa. Hand soap. Serial Nos. 651,726–7, Feb. 23. Class 52.
Permacrease Corporation, New York, N. Y. Piece and yard goods. Serial No. 641,462, Feb. 23. Class 42.
Pharmakon, Inc., Minneapolis, Minn. Vitamin and mineral supplement. Serial No. 642,565, Feb. 23. Class 18.
Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Wood sanding sealer and filler. Serial No. 533,361, Feb. 23. Class 16.
Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda adhesive. Serial No. 634,800, Feb. 23. Class 5.
Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Plasticizers. Serial No. 650,853, Feb. 23. Class 6.
Pollak Luminescent Corp., Chicago, Ill. Fluorescent paint-like coating compositions. Serial No. 623,011, Feb. 23. Class 16.
Pooser, A. C., assignee: *See*—
Safety Engineering & Supply Company, Inc.
Portage Products, Aurora, Ohio. Multi-purpose fishermen's tools. Serial No. 646,574, Feb. 23. Class 22.
Post Institute: *See*—
Stern, Louis J.
Povia Bros. Farms, Fort Myers, Fla. Cut flowers. Serial No. 625,866, Feb. 23. Class 1.
Prasse Lumber and Material Company, Rocky River, Ohio. Lumber. Serial No. 597,977, Feb. 23. Class 12.
Procter & Gamble Company, The, Cincinnati, Ohio. Cosmetic creams, personal deodorants. Serial No. 646,684, Feb. 23. Class 51.
Procter & Gamble Company, The, Cincinnati, Ohio. Sudsing cleaner, cleanser, and detergent. Serial No. 650,210, Feb. 23. Class 52.
Progress Lithographing Co., The, Cincinnati, Ohio. Banner-like strips of printed or lithographed paper. Serial No. 641,690, Feb. 23. Class 38.
Protectall Safe Corporation, Syracuse, N. Y. Safes. Serial Nos. 655,356–7, Feb. 23. Class 25.
Protectall Safe Corporation, Syracuse, N. Y. Safes. Serial Nos. 655,359–60, Feb. 23. Class 25.
Protectall Safe Corporation, Syracuse, N. Y. Safes. Serial Nos. 655,362–6, Feb. 23. Class 25.
Protectall Safe Corporation, Syracuse, N. Y. Safes. Serial Nos. 655,368–9, Feb. 23. Class 25.
Puget Sound Plywood, Inc., Tacoma, Wash. Plywood. Serial No. 651,412, Feb. 23. Class 12.
Quest Manufacturing Company, Chicago, Ill. Typewriter ribbons and carbon paper. Serial No. 645,728, Feb. 23. Class 11.
Radio Corporation of America, New York, N. Y. Gas ranges. Serial No. 642,165, Feb. 23. Class 34.
Raylite Electric Corp., New York, N. Y. Electric lamp sockets and Christmas tree lighting outfits. Serial No. 620,270, Feb. 23. Class 21.
Ray-O-Vac Company, Madison, Wis. Dry cells and dry cell batteries. Serial No. 634,116, Feb. 23. Class 21.
Refrigeration Engineering Company, Minneapolis, Minn. Milk vending machine. Serial No. 643,506, Feb. 23. Class 23.
Revlon Products Corporation, New York, N. Y. Night treatment cream. Serial No. 651,416, Feb. 23. Class 51.
Rex Cutlery Corporation, New York, N. Y. Manicure implements. Serial No. 633,122, Feb. 23. Class 44.
Ripley, Glenn Q., Jr., East Springfield, Pa. Paper place mats. Serial No. 633,876, Feb. 23. Class 37.
Robinson-Wagner Co., Inc., New York, N. Y. Astringents and anti-perspirant agents. Serial No. 637,615, Feb. 23. Class 51.
Rodney Distributors, Incorporated, Chicago, Ill. Sewing machines and parts for same. Serial No. 636,432, Feb. 23. Class 23.
Rose, Mel, Mfg. Co., Dallas, Tex. Men's slacks. Serial No. 641,196, Feb. 23. Class 39.
Rubinstein, Helena, Inc., New York, N. Y. Cosmetic kit. Serial No. 622,357, Feb. 23. Class 51.
Ruth Company, The, Denver, Colo. High quality native limerock. Serial No. 650,127, Feb. 23. Class 1.
Safety Engineering & Supply Company, Inc., doing business as Stretcherette Co., assignor to A. C. Pooser, Birmingham, Ala. Stretchers more particularly, non-rigid, separable stretchers, etc. for first aid use. Serial No. 635,851, Feb. 23. Class 44.
Sage, Peggy, Inc., Stamford, Conn. Manicure sets. Serial No. 638,106, Feb. 23. Class 44.
Sargent & Greenleaf, Inc., Rochester, N. Y. Combination locks. Serial No. 653,999, Feb. 23. Class 25.
Sawhill Manufacturing Company, The, Wheatland, Pa. Posts. Serial No. 645,191, Feb. 23. Class 12.
Schenley Distillers, Inc., also doing business as The New England Distilling Company, New York, N. Y., and Covington, Ky. Denatured rum used for industrial purposes. Serial No. 640,697, Feb. 23. Class 6.
Schoenemen, J., Inc., Baltimore, Md. Coats, vests, trousers, and knickerbockers. Serial No. 632,001, Feb. 23. Class 39.
Schrank, M. C., Company, Bridgeton, N. J. Women's and girls' pajamas, night-gowns, bed jackets, etc. Serial No. 641,641, Feb. 23. Class 39.
Schultz Shoe Company, Inc., St. Louis, Mo. Shoe polish. Serial No. 626,751, Feb. 23. Class 4.

Shulman Abrash, Inc., Paterson, N. J. Metallic insulated lining fabrics. Serial No. 640,968, Feb. 23. Class 42.
Sierra Talc & Clay Company, Los Angeles, Calif. Talc. Serial No. 635,241, Feb. 23. Class 1.
Silver Knit Hosiery Mills, Inc., High Point, N. C. Men's hosiery. Serial No. 636,388, Feb. 23. Class 39.
Sipe, James B., and Company, Pittsburgh, Pa. Alkyd flat enamel. Serial No. 644,876, Feb. 23. Class 16.
Sleepwear, Inc., New York, N. Y. Men's, women's, and children's pajamas. Serial No. 643,861, Feb. 23. Class 39.
Smith Kline & French Laboratories, Philadelphia, Pa. Antihistamine preparation. Serial No. 652,037, Feb. 23. Class 18.
Smith, N. S., Inc., Red Bank, N. J. Pads for garment pressing machines. Serial No. 639,849, Feb. 23. Class 24.
Snia Viscosa, Societa Nazionale Industria Applicazioni Viscosa, Societa per Azioni, Milan, Italy. Threads. Serial No. 619,720, Feb. 23. Class 43.
Society for Visual Education, Inc., Chicago, Ill. Film strip projectors. Serial No. 651,077, Feb. 23. Class 26.
Sport-Craft, Inc., New York, N. Y. Ladies' and misses' dresses, dress ensembles, etc. Serial No. 620,373, Feb. 23. Class 39.
Staley, A. E., Manufacturing Company, Decatur, Ill. Feed concentrate. Serial No. 639,850, Feb. 23. Class 18.
Standard Brewing Co. of Scranton, Scranton, Pa. Beer. Serial No. 633,885, Feb. 23. Class 48.
Star-Brite Mfg. Co.: *See*—
Mogavero, Maurice.
Stardust, Incorporated, Poughkeepsie and New York, N. Y. Ladies' and misses' slips and brassières. Serial No. 652,087, Feb. 23. Class 39.
Stelzer, Otto E., doing business as Lavador Mfg. Co., South Bend, Ind. Sliding doors. Serial No. 645,515, Feb. 23. Class 12.
Stern Brothers, New York, N. Y. Bill folds, wallets, pocketbooks, etc. Serial No. 639,493, Feb. 23. Class 3.
Stern Brothers, New York, N. Y. Billfolds, wallets, pocketbooks, etc. Serial No. 639,510, Feb. 23. Class 3.
Stern, Louis J., doing business as Post Institute, New York, N. Y. Shampoo and soap. Serial No. 633,386, Feb. 23. Class 52.
Stern's Nurseries, Inc., Geneva, N. Y. Chrysanthemum plants. Serial No. 645,740, Feb. 23. Class 1.
Stretcherette Co.: *See*—
Safety Engineering & Supply Company, Inc.
Superior Products Company: *See*—
Teich, Julius R.
Swan-Finch Oil Corporation, New York, N. Y. Liquid asbestos roof coating. Serial No. 639,461, Feb. 23. Class 16.
Teich, Julius R., doing business as Superior Products Company, Boston, Mass. Adhesive wafers. Serial No. 648,207, Feb. 23. Class 5.
Thomas & Company, Seattle, Wash. Diamond rings. Serial No. 639,855, Feb. 23. Class 28.
Thomas & Company, Seattle, Wash. Finger rings. Serial No. 639,856, Feb. 23. Class 28.
Thomas Textile Service Company, Philadelphia, Pa. Interlining fabrics. Serial No. 622,871, Feb. 23. Class 42.
Toyo Rayon Co., Ltd., Tokyo, Japan. Twine, rope, and cordage. Serial No. 650,750, Feb. 23. Class 7.
Trim Foods, Inc., New York, N. Y. Low calorie, homogenized salad whip dressing. Serial No. 646,504, Feb. 23. Class 46.
Troy Sunshade Company, The, Troy, Ohio. Metal frame upholstered indoor and outdoor furniture. Serial No. 645,746, Feb. 23. Class 32.
Tru Balance Corsets, Inc., New York, N. Y. Ladies' corsets, girdles, foundation garments, etc. Serial No. 647,381, Feb. 23. Class 39.
Truval Manufacturers, Inc., New York, N. Y. Outer shirts. Serial No. 618,135, Feb. 23. Class 39.
Tuller Fabrics Corp., New York, N. Y. Textile fabrics. Serial No. 650,231, Feb. 23. Class 42.
United Distillers (of America) Ltd., Baltimore, Md., assignor to Joseph S. Finch and Company, New York, N. Y. Blended whiskey. Serial No. 641,222, Feb. 23. Class 49.
United Products Company, The, Westminster, Md. Canned corn. Serial No. 607,149, Feb. 23. Class 46.
United States Gypsum Company, Chicago, Ill. Corner bead. Serial No. 637,896, Feb. 23. Class 12.
U. S. Knitwear Co., New York, N. Y. Bathing suits. Serial No. 621,112, Feb. 23. Class 39.
United States Rubber Company, New York, N. Y. Battery separators. Serial No. 632,806, Feb. 23. Class 21.
United States Trunk Company, Fall River, Mass. Foot lockers, wardrobe and storage trunks, etc. Serial No. 647,733, Feb. 23. Class 3.
Varley, James, & Sons, Incorporated, St. Louis, Mo. Perfume. Serial No. 650,234, Feb. 23. Class 51.
Vaughan Mfg. Co., Chicago, Ill. Combination hand tool. Serial No. 626,768, Feb. 23. Class 23.
Vitorium Manufacturing Company: *See*—
Vitorts, Bronislavs.
Vitorts, Bronislavs, doing business under the name and style of Vitorium Manufacturing Company, Baltimore, Md. Preparation for restoring natural color to gray hair. Serial No. 648,069, Feb. 23. Class 51.
Wade, Wenger & Associates, Inc., Chicago, Ill. Cleaning compound. Serial No. 628,796, Feb. 23. Class 52.
Wall, P., Mfg. Company, Grove City, Pa. Electrically-heated soldering irons. Serial No. 641,700, Feb. 23. Class 21.
Warren Woolen Co., The, Stafford Springs, Conn. Woolen piece goods. Serial No. 644,580, Feb. 23. Class 42.
Warrenton Woolen Co., The, Torrington, Conn. Woolen fabrics. Serial No. 633,522, Feb. 23. Class 42.
Weathermaster Jalousie and Window Manufacturing Company, Opa Locka, Fla. Aluminum windows, aluminum jalousies, and glass jalousies. Serial No. 627,103, Feb. 23. Class 12.
Wedge Protectors, Inc., Cleveland, Ohio. Metal thread protectors and paperlined metal thread protectors, welding rings, etc. Serial No. 609,013, Feb. 23. Class 13.
Western Veneer Company, Eugene, Oreg. Plywood. Serial No. 645,210, Feb. 23. Class 12.
White Motor Company, The, Cleveland, Ohio. Transmission gearing. Serial No. 578,661, Feb. 23. Class 23.
Whiting Milk Company, Boston and Charlestown Section of Boston, Mass. Printed cards. Serial No. 643,876, Feb. 23. Class 38.
Wieboldt Stores, Inc., Chicago, Ill. Ready mixed paint, enamel, varnish, etc. Serial No. 588,417, Feb. 23. Class 16.
Williams, C. K., & Co., Easton, Pa. Finely divided pigment. Serial No. 639,354, Feb. 23. Class 6.
Wilson Rubber Company, The, Canton, Ohio. Rubber and plastic industrial and household gloves. Serial No. 649,756, Feb. 23. Class 39.
Winthrop-Stearns Inc., New York, N. Y. Anti-cholinergic preparation. Serial No. 644,704, Feb. 23. Class 18.
Wyeth Laboratories, Division of American Home Products Corporation: *See*—
American Home Products Corporation.
Zoll, James L., doing business as Zoll & Son, Baltimore, Md. Photo prints, photostat prints, photographs, etc. Serial No. 613,622, Feb. 23. Class 38.
Zoll & Son: *See*—
Zoll, James L.

LIST OF REGISTRANTS OF TRADE-MARKS

ABC Coach Co., Pinconning, Mich. Transportable trailer apparatus. 586,008, Feb. 23; Serial No. 639,299, published Nov. 24, 1953. Class 19.
Acme-Evans Company, Inc., Indianapolis, Ind. Wheat flour. 585,969, Feb. 23; Serial No. 633,138, published Nov. 24, 1953. Class 46.
Ajax Box Company, The, Chicago, Ill. Corrugated paper. 585,983, Feb. 23; Serial No. 635,510, published Oct. 27, 1953. Class 37.
Alabama Flour Mills: *See*—
Nebraska Consolidated Mills Company.
Alco Products Incorporated, to American Locomotive Company, New York, N. Y. Refinery heat exchangers. 308,766, renewed Dec. 19, 1953. O. G. Feb. 23. Class 34.
Alfa Photo Corp., New York, N. Y. Incandescent lamps. 586,003, Feb. 23; Serial No. 638,889, published Nov. 17, 1953. Class 21.
American Locomotive Company: *See*—
Alco Products Incorporated.
American Medicinal Spirits Company, The, Louisville, Ky., to National Distillers Products Corporation, New York, N. Y. Whiskey. 311,999, renewed Apr. 10, 1954. O. G. Feb. 23. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky., to National Distillers Products Corporation, New York, N. Y. Whiskey. 312,011, renewed Apr. 10, 1954. O. G. Feb. 23. Class 49.
American Safety Razor Corporation: *See*—
Kampfe Bros.
Amm-O-Gum, Inc., Chicago, Ill. Chewing gum. 585,946, Feb. 23; Serial No. 625,324, published Nov. 24, 1953. Class 46.
Amperex Electronic Corporation, Hicksville, N. Y. X-ray tubes. 586,022, Feb. 23; Serial No. 641,594, published Nov. 24, 1953. Class 21.
Anchor Post Fence Company, to Anchor Post Products, Inc., Baltimore, Md. Oil burners. 307,852, renewed Nov. 7, 1953. O. G. Feb. 23. Class 34.
Anchor Post Products, Inc.: *See*—
Anchor Post Fence Company.

Arkwright Merchandising Corporation, New York, N. Y. Toilet powder, perfume, talcum powder, etc. 310,475, renewed Feb. 27, 1954. O. G. Feb. 23. Class 51.
Arnold, Hoffman & Co., Incorporated, Providence, R. I. Catalyst and coloring products. 440,170, Aug. 17, 1948. Republished Feb. 23. Class 6.
Artistic Wire Products Company, Inc., East Hampton, Conn. Vinyl-coated wire racks. 585,917–18, Feb. 23; Serial Nos. 615,744–5, published Nov. 17, 1953. Class 13.
Athens Flooring Company, The, Athens, Ohio. Window and removable sash. 585,992, Feb. 23; Serial No. 637,031, published Nov. 24, 1953. Class 12.
Austin Powder Company, Cleveland, Ohio. Blasting powder, pellet powder, dynamite, etc. 308,311, renewed Nov. 28, 1953. O. G. Feb. 23. Class 9.
Automatic Devices Company, Allentown, Pa. Curtain tracks. 586,109, Feb. 23; Serial No. 647,141, published Nov. 17, 1953. Class 13.
Avion Instrument Corporation, Paramus, N. J. Power amplifiers, electrical gyroscopes, servomotors, etc. 585,936, Feb. 23; Serial No. 622,099, published Nov. 10, 1953. Class 21.
B & L Tool and Machine Co., The, Plainville, Conn. Electrically heated paint, putty, and wallpaper removers. 585,941, Feb. 23; Serial No. 623,531, published Nov. 10, 1953. Class 21.
B & W Food Company, Birmingham, Ala. Peanut butter and apple jelly combined. 585,913, Feb. 23; Serial No. 613,358, published Nov. 24, 1953. Class 46.
Babcock Company, The, Kasota, Minn. Quarried building material. 585,991, Feb. 23; Serial No. 636,763, published Nov. 24, 1953. Class 12.
Bancroft, Joseph, & Sons Co., Wilmington, Del. Cotton piece goods. 306,595, Sept. 26, 1933. Republished Feb. 23. Class 42.
Barlet Mills, Inc., Lexington, N. C. Tubular cotton jersey piece goods. 586,007, Feb. 23; Serial No. 639,260, published Nov. 24, 1953. Class 42.
Becken, A. C., Co., Chicago, Ill. Pearls and pearl necklaces. 586,092, Feb. 23; Serial No. 645,770, published Nov. 10, 1953. Class 28.
Bekins Vanlines Company, Omaha, Nebr. Automotive trucks. 405,120, Jan. 11, 1944. Corrected. O. G. Feb. 23. Class 19.
Bell, Muriel, Incorporated, New York, N. Y. Perfumes and colognes. 585,893, Feb. 23; Serial No. 595,184, published Oct. 28, 1952. Class 51.
Belmap & Thompson, Inc., Chicago, Ill. Sales promotion of clients' goods or services, etc. 586,129, Feb. 23; Serial No. 644,715, published Sept. 29, 1953. Class 101.
Belson Company, Green Bay, Wis. Nylon hosiery. 586,052, Feb. 23; Serial No. 643,632, published Nov. 17, 1953. Class 39.
Berry Asphalt Company, Chicago, Ill., and Magnolia, Ark. Chemically treated asphalt. 585,956, Feb. 23; Serial No. 627,619, published Nov. 24, 1953. Class 12.
Berry Seed Company, Clarinda, Iowa. Alfalfa seed. 586,083, Feb. 23; Serial No. 645,948, published Nov. 3, 1953. Class 1.
Betts Machine Company, Warren, Pa. Electrically operated vehicle clearance lights. 586,137, Feb. 23; Serial No. 628,915. Class 21.
Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., New York, N. Y. Woven pile rugs and carpets. 585,935, Feb. 23; Serial No. 622,002, published Nov. 24, 1953. Class 42.
Bigelow-Sanford Carpet Company, Inc., assignee: *See*—
Bigelow-Sanford Carpet Co., Inc.
Blassenham, William L., Richmond, Va. Travel cage for birds. 586,104, Feb. 23; Serial No. 647,062, published Nov. 24, 1953. Class 3.
Blue Gem Manufacturing Company, Greensboro, N. C. Dungarees. 586,072, Feb. 23; Serial No. 644,960, published Nov. 24, 1953. Class 39.
Botany Mills, Inc., Passaic, N. J. Woolen piece goods. 586,152, Feb. 23; Serial No. 651,691. Class 42.
Bowser, Inc., Fort Wayne, Ind. Measuring and dispensing apparatus. 585,928, Feb. 23; Serial No. 618,911, published Sept. 8, 1953. Class 26.
Boydell Bros. Co.: *See*—
McNamara, Michael.
Braun, Harold P., doing business as Brownie Company, Grand Rapids, Mich. Envelopes. 586,082, Feb. 23; Serial No. 645,949, published Nov. 3, 1953. Class 37.
Brenner, E. Alberta, Wallingford, Conn. Devotional desks. 586,103, Feb. 23; Serial No. 646,922, published Nov. 17, 1953. Class 32.
Broadbent-Johnston, Inc., El Monte, Calif. Centrifugal pumps and portable coolant tank pump units, etc. 585,920, Feb. 23; Serial No. 616,078, published Aug. 25, 1953. Class 23.
Brown-Miller Company, New Orleans, La. Sliced dill pickles. 585,964, Feb. 23; Serial No. 631,266, published Nov. 24, 1953. Class 46.
Brownie Company: *See*—
Braun, Harold P.
Bucyrus-Erie Company, Wilmington, Del., and South Milwaukee, Wis. Grab buckets, grapples, hydraulic equipment for operating buckets, etc. 585,886, Feb. 23; Serial No. 571,509, published Aug. 11, 1953. Class 23.
Buenaventura Lemon Co. Inc.: *See*—
Culbertson Investment Company.
Culbertson Lemon Assn.
Buenaventura Lemon Co. Inc.: *See*—
Culbertson Lemon Association.
Caldwell, A. & G. J., Inc., Newburyport, Mass. Liqueur. 586,115, Feb. 23; Serial No. 647,594, published Nov. 17, 1953. Class 49.
Callaway Mills, to Callaway Mills Company, La Grange, Ga. Knit and woven piece goods and pile fabrics. 311,732, renewed Apr. 3, 1954. O. G. Feb. 23. Class 42.
Callaway Mills Company: *See*—
Callaway Mills.
Calumet and Hecla, Inc., Calumet, Mich. Drill bits. 586,067, Feb. 23; Serial No. 644,391, published Nov. 3, 1953. Class 23.
Carlon Products Corporation, Cleveland, Ohio. Conduits. 585,972, Feb. 23; Serial No. 633,657, published Nov. 24, 1953. Class 13.
Carmo Laboratories: *See*—
Woelbing, Alfred G. E.
Cary, Fred G., to Lakeshore Fruit Co., Lodi, Calif. Fresh grapes. 302,057, renewed Mar. 28, 1953. O. G. Feb. 23. Class 46.
Castilla Products, Inc., New York, N. Y. Mouth wash and soap for the teeth. 586,044, Feb. 23; Serial No. 643,405, published Nov. 24, 1953. Class 51.
Chipman Knitting Mills, Easton, Pa. Women's full-fashioned nylon hosiery. 586,061, Feb. 23; Serial No. 643,944, published Nov. 17, 1953. Class 39.
Claredon Orchid Co., Inc., Madison, Wis. Orchids. 586,087, Feb. 23; Serial No. 645,870, published Nov. 3, 1953. Class 1.
Claridge Equipment Company, assignor to Harris Preble Fire Doors, Inc., Chicago, Ill. Reversible chalk and display board. 586,053, Feb. 23; Serial No. 643,651, published Nov. 3, 1953. Class 50.
Columbia River Paper Mills, Portland, Oreg. Safety paper. 585,989, Feb. 23; Serial No. 636,588, published Nov. 17, 1953. Class 37.
Compagnie Francaise des Matieres Colorantes, Paris, France. Chemical dyestuffs. 585,976, Feb. 23; Serial No. 634,074, published June 9, 1953. Class 6.
Compule Corporation, The, Rutherford, N. J. Hypodermic injection devices. 585,958, Feb. 23; Serial No. 628,522, published Nov. 17, 1953. Class 44.
Consolidated Chemical Industries, Inc.: *See*—
Pacific Bone Coal & Fertilizing Company.
Consolidated Vultee Aircraft Corporation, San Diego, Calif. Cathode-ray tubes. 585,950, Feb. 23; Serial No. 626,312, published Nov. 10, 1953. Class 21.
Continental-Caoutchouc- und Gutta-Percha-Compagnie, to Continental Gummi-Werke Aktiengesellschaft, Hanover, Germany. Pneumatic tires. 41,422, re-renewed Nov. 3, 1953. O. G. Feb. 23. Class 35.
Continental Gummi-Werke Aktiengesellschaft: *See*—
Continental-Caoutchouc- und Gutta-Percha-Compagnie.
Cooper, Leo M., doing business as Leo M. Cooper Co., New York, to White Swan Uniforms, Inc., Yonkers, N. Y. Nurses' uniforms, maids' uniforms, and uniform dresses. 302,853, renewed May 2, 1953. O. G. Feb. 23. Class 39.
Cooper, Leo M., Co.: *See*—
Cooper, Leo M.
Corsi Telemaco: *See*—
Rectaflex Societa Per Azioni.
Cosmopolitan Manufacturing Company, doing business as Scott-Allen Clothes, Boston, Mass. Men's sport jackets, top coats, and slacks. 586,147, Feb. 23; Serial No. 642,344. Class 39.
Coughlan Brothers, Kansas City, Mo., to Esso Standard Oil Company, New York, N. Y. Exterminator for bedbugs, cockroaches, ants, etc. 94,544, re-renewed Dec. 16, 1953. O. G. Feb. 23. Class 6.
Courvoisier, Limited, Jarnac, France. Cognac brandies. 308,389, renewed Dec. 5, 1953. O. G. Feb. 23. Class 49.
Cresca Company, Inc., New York, N. Y. Ornamental food display stand. 585,927, Feb. 23; Serial No. 618,628, published Nov. 17, 1953. Class 32.
Croft & Co. Limited, London, England. Port wines. 307,320, renewed Oct. 24, 1953. O. G. Feb. 23. Class 47.
Croft & Co. Limited, London, England. Port wine. 307,321, renewed Oct. 24, 1953. O. G. Feb. 23. Class 47.
Crucible Steel Company of America, New York, N. Y. Steel bars, rods, billets, etc. 584,312, Jan. 5, 1954. Corrected. O. G. Feb. 23. Class 14.
Culbertson Investment Company, also doing business as Geo. C. Power Lemon Ranch, Ventura, to Buenaventura Lemon Co. Inc., Saticoy, Calif. Fresh citrus fruits. 433,738, Oct. 28, 1947. New certificate. O. G. Feb. 23. Class 46.
Culbertson Lemon Association, to Buenaventura Lemon Co. Inc., Saticoy, Calif. Fresh citrus fruit. 338,703, Sept. 15, 1936. New certificate. O. G. Feb. 23. Class 46.
Culbertson Lemon Assn., to Buenaventura Lemon Co. Inc., Saticoy, Calif. Fresh citrus fruit. 338,704–5, Sept. 15, 1936. New certificate. O. G. Feb. 23. Class 46.
Culbertson Lemon Assn., to Buenaventura Lemon Co. Inc., Saticoy, Calif. Fresh citrus fruit. 372,670, Nov. 7, 1939. New certificate. O. G. Feb. 23. Class 46.
Custom Coach Company, The, Baltimore, Md. Aluminum awnings for house trailers. 585,997, Feb. 23; Serial No. 637,572, published Nov. 24, 1953. Class 19.
Cutler, Jess & C. A., Inc., Columbus, Ga. Live chinchillas and chinchilla pelts. 586,098, Feb. 23; Serial No. 646,534, published Nov. 3, 1953. Class 1.

Dearborn Company, Inc., Providence, R. I. Jewelry. 586,071, Feb. 23; Serial No. 644,901, published Nov. 10, 1953. Class 28.

Decatur Pump Company, Decatur, Ill. Water pumps and parts thereof. 585,984, Feb. 23; Serial No. 635,525, published Aug. 4, 1953. Class 23.

Decks, Inc., Salt Lake City, Utah. Inflatable rubber decoys. 586,016, Feb. 23; Serial No. 640,028, published Nov. 24, 1953. Class 22.

Deena Products Co., Chicago, Ill. Lampshades. 585,897, Feb. 23; Serial No. 604,146, published Nov. 24, 1953. Class 21.

Deerfield Groves Company, Wabasso, Fla. Fresh citrus fruit. 586,121, Feb. 23; Serial No. 649,133, published Nov. 24, 1953. Class 46.

Diamond Saw Works, Inc., Buffalo, N. Y. Metal cutting saw blades. 586,080, Feb. 23; Serial No. 645,471, published Nov. 3, 1953. Class 23.

Dickey, James W., doing business as Ohio Hoist & Manufacturing Company, Garfield Heights, Ohio. Nonelectric chain hoists. 586,131, Feb. 23; Serial No. 611,831. Class 23.

Dickey, James W., doing business as Ohio Hoist & Manufacturing Company, Garfield Heights, Ohio. Nonelectric chain hoists. 586,132, Feb. 23; Serial No. 611,892. Class 23.

Dickey, W. S., Clay Manufacturing Co., Kansas City, Mo. Roof flashing. 586,058, Feb. 23; Serial No. 643,823, published Nov. 10, 1953. Class 12.

Donahoe's Inc., Pittsburgh, Pa. Canned vegetables. 307,335, renewed Oct. 24, 1953. O. G. Feb. 23. Class 46.

Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette tables and chairs. 586,043, Feb. 23; Serial No. 643,300, published Nov. 17, 1953. Class 32.

Doulton & Co., Limited, Burslem and London, England. Earthenware, porcelain, or bone china figurines, etc. 586,062, Feb. 23; Serial No. 644,018, published Nov. 24, 1953. Class 50.

Dunlop Milling Company, The, Clarksville, Tenn., to General Foods Corporation, New York, N. Y. Self-rising wheat-flour. 94,891, re-renewed Jan. 13, 1954. O. G. Feb. 23. Class 46.

Eagle-Flagg Tanning Corporation, New York, N. Y. Leather. 586,097, Feb. 23; Serial No. 646,372, published Nov. 3, 1953. Class 1.

Eagle-Ottawa Leather Company, Grand Haven, Mich. Upholstery leather. 586,146, Feb. 23; Serial No. 642,211. Class 1.

Eastern Machine Products Co.: *See*—
Eastern Venetian Blind Company, The.

Eastern Venetian Blind Company, The, trading as Eastern Machine Products Co., Baltimore, Md. Window cornice hardware. 585,925, Feb. 23; Serial No. 617,655, published Nov. 24, 1953. Class 13.

Edson, Incorporated, Chicago, Ill. Draperies, card table covers, and piece goods. 586,023, Feb. 23; Serial No. 641,655, published Nov. 24, 1953. Class 42.

Eldridge, R. W., Company, Inc., Charlotte, N. C. Handkerchiefs. 586,021, Feb. 23; Serial No. 641,280, published Nov. 17, 1953. Class 39.

Electric & Musical Industries Limited, Hayes, England. Apparatus for the recording on magnetic tape, etc. 585,999, Feb. 23; Serial No. 637,764, published Nov. 10, 1953. Class 21.

Elsé Inc., Cincinnati, Ohio. Dress patterns. 585,993, Feb. 23; Serial No. 637,119, published Sept. 8, 1953. Class 26.

Enterprise Manufacturing Company, The: *See*—
Lowe, William T. J.

Essex Rubber Company, Trenton, N. J. Rubber heels. 304,073, renewed June 20, 1953. O. G. Feb. 23. Class 39.

Essex Rubber Company, Trenton, N. J. Shoe soles. 305,532, renewed Aug. 22, 1953. O. G. Feb. 23. Class 39.

Essex Wire Corporation, Detroit, Mich. Insulated electric wires and insulated electric cables. 586,117, Feb. 23; Serial No. 647,840, published Nov. 24, 1953. Class 21.

Esso Standard Oil Company: *See*—
Coughlan Brothers.
Pennsylvania Lubricating Company.

Eutectic Welding Alloys Corporation, Flushing, N. Y. Covered metal electrode. 586,088, Feb. 23; Serial No. 645,558, published Nov. 10, 1953. Class 21.

Evenline Products, Boston, Mass., and Providence, R. I. Mechanical pencils and leads. 586,145, Feb. 23; Serial No. 641,444. Class 37.

Fabrique Bag, Inc., New York, N. Y. Mesh handbags. 586,047, Feb. 23; Serial No. 643,479, published Nov. 17, 1953. Class 3.

Factor, Max, & Co., Hollywood, Calif. Cosmetics. 585,905, Feb. 23; Serial No. 608,654, published Mar. 24, 1953. Class 51.

Famous Mineral Water Co., Mineral Wells, Tex. Mineral crystals and evaporated mineral water residue. 306,698, Sept. 26, 1933. Republished Feb. 23. Class 18.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Textile fabrics. 585,985, Feb. 23; Serial No. 635,823, published Nov. 24, 1953. Class 42.

Farmland Irrigation Company, Inc., Fresno, Calif. Component parts of portable irrigation systems. 585,970, Feb. 23; Serial No. 633,150, published Nov. 17, 1953. Class 13.

Fate-Root-Heath Company, The, Plymouth, Ohio. Railroad locomotives, the power source of which is an internal combustion engine. 586,059, Feb. 23; Serial No. 643,828, published Sept. 1, 1953. Class 23.

Feature Ring Co., Inc., New York, N. Y. Precious metal engagement ring and wedding ring. 586,133, Feb. 23; Serial No. 618,489. Class 28.

Federated Department Stores, Inc., Cincinnati, Ohio. Outboard motors. 586,040, Feb. 23; Serial No. 642,875, published Aug. 4, 1953. Class 23.

Ferguson, Dorothy, Greeley, Colo. Frozen cookie dough. 585,987, Feb. 23; Serial No. 636,227, published Nov. 10, 1953. Class 46.

Fillmore, W. Wilson: *See*—
Mazer, J., Sons, Cigar Company.

Fine, Max, & Sons, Inc., New York, N. Y. Finger rings. 586,063, Feb. 23; Serial No. 644,023, published Nov. 10, 1953. Class 28.

Flagstaff Foods, Perth Amboy, N. J. Grape juice. 586,027, Feb. 23; Serial No. 641,922, published Nov. 17, 1953. Class 45.

Fleming, Birkby & Goodall, Limited, Halifax, England. Machine belts and belting. 41,350, re-renewed Dec. 1, 1953. O. G. Feb. 23. Class 35.

Florasynth Laboratories, Incorporated, New York, N. Y., Chicago, Ill., Dallas, Tex., Detroit, Mich., and elsewhere. Non-alcoholic maltless soft drinks. 586,002, Feb. 23; Serial No. 638,643, published Nov. 24, 1953. Class 45.

Fort Howard Paper Company, Green Bay, Wis. Paper napkins. 586,089, Feb. 23; Serial No. 645,704, published Nov. 3, 1953. Class 37.

Freeman, H., & Son, Inc., Philadelphia, Pa. Men's top coats, overcoats, suits, etc. 586,105, Feb. 23; Serial No. 647,066, published Nov. 24, 1953. Class 39.

Fremont Fruit Association, Exeter, Calif. Fresh grapes. 310,863, renewed Mar. 13, 1954. O. G. Feb. 23. Class 46.

Freudmann, M., Co.: *See*—
Freudmann, Marcel.

Freudmann, Marcel, doing business as M. Freudmann Co., New York, N. Y. Diamond rings, and diamonds. 586,009, Feb. 23; Serial No. 639,423, published Nov. 10, 1953. Class 28.

Frozen Confections, Inc., to Joe Lowe Corporation, New York, N. Y. Frozen confections and ice cream confection on sticks. 310,480, renewed Feb. 27, 1954. O. G. Feb. 23. Class 46.

Gallo, E. & J., Winery, Modesto, Calif. Wines. 586,119, Feb. 23; Serial No. 648,385, published Nov. 24, 1953. Class 47.

Garcia & Vega, Inc., New York, N. Y. Cigars. 586,073, Feb. 23; Serial No. 644,971, published Nov. 24, 1953. Class 17.

Garcia & Vega, Inc., New York, N. Y. Cigars. 586,074, Feb. 23; Serial No. 644,976, published Nov. 24, 1953. Class 17.

General Foods Corporation: *See*—
Dunlop Milling Company, The.

General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Ready-to-eat cereal. 586,120, Feb. 23; Serial No. 648,661, published Nov. 24, 1953. Class 46.

Genuine Chemicals Corporation, Brooklyn, N. Y. Brake fluid. 586,141, Feb. 23; Serial No. 633,306. Class 6.

Gesell, R., Incorporated: *See*—
Gesell, Violet V.

Gesell, Violet V., doing business as Jiffy-Lax Company, to R. Gesell, Incorporated, New York, N. Y. Lubricating laxative. 306,004, renewed Sept. 5, 1953. O. G. Feb. 23. Class 18.

Giovannetti, John, New York, N. Y. Jewelry. 585,923, Feb. 23; Serial No. 616,632, published Dec. 23, 1952. Class 28.

Globe-Union Inc., Milwaukee, Wis. Unit comprising a variable resistance and a printed electronic circuit network. 586,101, Feb. 23; Serial No. 646,759, published Nov. 3, 1953. Class 21.

Goldsmith Bros., New York, N. Y. Partially printed pin-tickets. 586,006, Feb. 23; Serial No. 639,223, published Nov. 3, 1953. Class 37.

Good-All Electric Manufacturing Company, Ogallala, Nebr. Electric capacitors. 586,110, Feb. 23; Serial No. 647,291, published Nov. 17, 1953. Class 21.

Goodall-Sanford, Inc., Sanford, Maine. Piece goods. 586,076, Feb. 23; Serial No. 645,041, published Nov. 24, 1953. Class 42.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Storage batteries and spark plugs. 310,205, renewed Feb. 13, 1954. O. G. Feb. 23. Class 21.

Gotham Hosiery Company, Inc., New York, N. Y. Ladies' hosiery. 586,054, Feb. 23; Serial No. 643,678, published Nov. 24, 1953. Class 39.

Gregory, Seth H., doing business under the name and style of Sharwood's, Oak Park, Ill. Sandwiches. 585,965, Feb. 23; Serial No. 632,300, published Nov. 24, 1953. Class 46.

Grossman, Ralph E., doing business as Picture Craft Company, Decatur, Ill. Artist's painting kits. 585,942, Feb. 23; Serial No. 623,882, published Nov. 3, 1953. Class 50.

Grossman, Ralph E., doing business as Picture Craft Company, Decatur, Ill. Artist's painting kits. 586,136, Feb. 23; Serial No. 626,673. Class 50.

Guenther, C. H., & Son, Incorporated, doing business as Pioneer Flour Mills, San Antonio, Tex. Wheat flour. 585,890, Feb. 23; Serial No. 588,214, published Nov. 24, 1953. Class 46.

Gummed Products Company, The, Troy, Ohio. Heat seal papers. 585,045–6, Feb. 23; Serial Nos. 643,420–1, published Nov. 3, 1953. Class 37.

Gyro Skid-Control Company, Inc., Beverly Hills, Calif. Vehicle antiskid devices. 586,032, Feb. 23; Serial No. 642,409, published Nov. 24, 1953. Class 19.

Hammond Iron Works, Warren, Pa. Auxiliary fitting for a liquid storage tank. 585,940, Feb. 23; Serial No. 623,414, published Nov. 24, 1953. Class 13.

Handcraft Company, Inc., The, Princeton, Wis. Combined socks and slippers. 585,908, Feb. 23; Serial No. 611,842, published Nov. 10, 1953. Class 39.

Hardy, John G., Limited, assignor to John G. Hardy Limited, London, England. Piece goods. 585,912, Feb. 23; Serial No. 612,859, published Nov. 24, 1953. Class 42.

Hardy, John G., Limited, assignor to John G. Hardy Limited, London, England. Piece goods. 585,922, Feb. 23; Serial No. 616,558, published Nov. 24, 1953. Class 42.

Harris, Preble, Fire Doors, Inc., assignee: *See*—
Claridge Equipment Company.

Hayward Woolen Co.: *See*—
Murray, Leo J.

Hearst Corporation, The: *See*—
Star Company.

Heddon's, James, Sons, Dowagiac, Mich. Fishing reels 586,127, Feb. 23; Serial No. 652,724, published Nov. 24, 1953. Class 22.

Hellige, Inc., Long Island City, N. Y. Photoelectric color and density measuring instrument. 585,914, Feb. 23; Serial No. 613,990, published Sept. 8, 1953. Class 26.

Hercules Powder Company, Wilmington, Del. Dynamite and gelatinous explosives, sporting and blasting powder, etc. 95,760–1, re-renewed Mar. 10, 1954. O. G. Feb. 23 Class 9.

Higley Chemical Company, Dubuque, Iowa. Chemical compound for cleaning floors, having incidental preserving and polishing properties. 307,840, renewed Nov. 7, 1953. O. G. Feb. 23. Class 4.

Hoeganaes Sponge Iron Corporation, New York, N. Y. Iron powder and sponge iron. 586,018, Feb. 23; Serial No. 640,273, published Nov. 24, 1953. Class 14.

Holliston Mills, Inc., The: *See*—
Holliston Mills, The.

Holliston Mills, The, to The Holliston Mills, Inc., Norwood, Mass. Cloth used in bookbinding. 94,995, re-renewed Jan. 20, 1954. O. G. Feb. 23. Class 42.

Home Accessories Manufacturing Company, Jacksonville, Ill. Portable electrically heated steam baths. 585,939, Feb. 23; Serial No. 622,937, published Nov. 10, 1953. Class 21.

Hoover Company, The, North Canton, Ohio. Electric motors. 586,001, Feb. 23; Serial No. 638,260, published Nov. 10, 1953. Class 21.

Howe & French, Inc., Boston, Mass. Adhesive liquid cement. 287,211, Sept. 15, 1931. Amended. O. G. Feb. 23. Class 5.

Hudnut, Richard, New York, N. Y. Cosmetic kits. 585,973, Feb. 23; Serial No. 633,672, published Nov. 24, 1953. Class 51.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Fire pumps. 586,036, Feb. 23; Serial No. 642,642, published Aug. 4, 1953. Class 23.

Hyster Company, Portland, Oreg. Roller drums. 586,142, Feb. 23; Serial No. 635,265. Class 23.

Illinois Testing Laboratories, Inc., Chicago, Ill. Electrical temperature measuring instruments and parts thereof. 585,930, Feb. 23; Serial No. 620,541, published Sept. 8, 1953. Class 26.

Illinois Testing Laboratories, Inc., Chicago, Ill. Electrical temperature measuring instruments and parts thereof. 585,931, Feb. 23; Serial No. 620,543, published Sept. 8, 1953. Class 26.

Illinois Testing Laboratories, Inc., Chicago, Ill. Flow meters. 585,932, Feb. 23; Serial No. 620,544, published Sept. 8, 1953. Class 26.

Infilco Incorporated, Tucson, Ariz. Machinery and equipment for the removal of suspended, colloidal, and dissolved substances, etc. 585,888, Feb. 23; Serial No. 582,434, published Aug. 25, 1953. Class 23.

Insul-Wool Machinery Manufacturing Co., assignor to Lester Wilkinson, Wichita, Kans., as trustee. Tractor-drawn fertilizer spreaders. 586,134, Feb. 23; Serial No. 622,598. Class 23.

International Cellucotton Products Company, Chicago, Ill. Paper table napkins. 586,090, Feb. 23; Serial No. 645,712, published Nov. 3, 1953. Class 37.

International Electric Company, Chicago, Ill. Electric fences and electric fence controllers. 585,967, Feb. 23; Serial No. 632,425, published Nov. 17, 1953. Class 21.

International Milling Company, Minneapolis, Minn. Wheat flour. 586,111, Feb. 23; Serial No. 647,419, published Nov. 24, 1953. Class 46.

Janedale Hosiery Mills, Inc., Blackwood, N. J. Women's foot socks. 586,066, Feb. 23; Serial No. 644,321, published Nov. 24 1953 Class 39.

Jem Company, The: *See*—
Pinkas, David.

Jiffy-Lax Company: *See*—
Gesell, Violet V.

Johnson, M. J., doing business as M. J. Johnson Company, Morristown, N. J. Sales engineering. 586,128, Feb. 23; Serial No. 604,481, published Nov. 17, 1953. Class 101.

Johnson, M. J., Company: *See*—
Johnson, M. J.

Kaiser Steel Corporation, Oakland, Calif. Continuous weld standard steel pipe and electric weld pipe. 586,116, Feb. 23; Serial No. 647,629, published Nov. 24, 1953. Class 13.

Kampfe Bros., New York, to American Safety Razor Corporation, Brooklyn, N. Y. Shaving-brushes. 94,910, re-renewed Jan. 13, 1954. O. G. Feb. 23. Class 29.

Kaybee Corporation, The, New York, N. Y. Flexible plastic film, and shelf lining, shelf edging, etc. 586,060, Feb. 23; Serial No. 643,911, published Nov. 24, 1953. Class 42.

Kaye-Halbert Corporation, Culver City, Calif. Television receiving sets. 586,010, Feb. 23; Serial No. 639,475, published Nov. 17, 1953. Class 21.

Kazol Inc.: *See*—
Matzoon, Y. T., Company.

Kentucky Distilling Co., Inc., New York, N. Y. Whiskey. 585,975, Feb. 23; Serial No. 633,986, published Nov. 17, 1953. Class 49.

Kohler Co., Kohler, Wis. Electric generating plants. 585,977, Feb. 23; Serial No. 634,090, published Nov. 3, 1953. Class 21.

Lakeshore Fruit Co.: *See*—
Cary, Fred G.

Lakeside Central Company, Chicago, Ill. Mailing envelopes. 586,004, Feb. 23; Serial No. 638,934, published Nov. 10, 1953. Class 37.

Lake Zurich Concrete Products Inc., assignee: *See*—
Persolite Products, Inc.

Lamiglas Company, Kent, Wash. Fishing rods. 586,122, Feb. 23; Serial No. 649,517, published Nov. 24, 1953. Class 22.

Lamiglas Company, Kent, Wash. Fishing rods. 586,123, Feb. 23; Serial No. 649,519, published Nov. 24, 1953. Class 22.

Lange, Paul H., Park Ridge, Ill. Preformed cardboard holders. 586,139, Feb. 23; Serial No. 632,381. Class 2.

La Questa Olive Growers: *See*—
Well, Ira O.

Larus & Brother Company, Richmond, Va. Cigarettes. 586,112, Feb. 23; Serial No. 647,429, published Nov. 24, 1953. Class 17.

Lenson, U. & J., Corp., The, Brooklyn, N. Y. Coffee. 586,029, Feb. 23; Serial No. 641,994, published Nov. 24, 1953. Class 46.

Levin, Jake, and Son, Kansas City, Mo. Optical glasses. 586,144, Feb. 23; Serial No. 639,059. Class 26.

Libbey-Owens-Ford Glass Company, Toledo, Ohio. Coated glass fibers, filaments, and strands. 586,085, Feb. 23; Serial No. 645,906, published Nov. 3, 1953. Class 1.

Libbey-Owens-Ford Glass Company, Toledo, Ohio. Coated glass fibers, filaments, and strands. 586,086, Feb. 23; Serial No. 645,905, published Nov. 3, 1953. Class 1.

Lindemann, A. J., & Hoverson Company, The, Milwaukee, Wis. Electric oven cooking units. 586,079, Feb. 23; Serial No. 645,247, published Nov. 10, 1953. Class 21.

Linen Thread Co., Inc., The, Paterson, N. J. Fish netting. 586,000, Feb. 23; Serial No. 637,931, published Nov. 24, 1953. Class 42.

Louisville Paint Mfg. Co., Louisville, Ky. Dry, paste, and ready-mixed paints. 95,639, re-renewed Mar. 3, 1954. O. G. Feb. 23. Class 16.

Lowe, Joe, Corporation: *See*—
Frozen Confections, Inc.

Lowe, William T. J., Buffalo, N. Y., to The Enterprise Manufacturing Company, Akron, Ohio. Spoon fishing-bait. 94,096, re-renewed Nov. 4, 1953. O. G. Feb. 23. Class 22.

Lynch, J. M., & Bro., Louisville, Ky. Hosiery. 586,033, Feb. 23; Serial No. 642,414, published Nov. 24, 1953. Class 39.

Mack, Louis P., Chicago, Ill. Trusses. 585,911, Feb. 23; Serial No. 612,811, published Nov. 24, 1953. Class 44.

Malton Tool Corporation, New York, N. Y. Ratcheting box wrenches, screw drivers, pipe wrenches, etc. 585,902, Feb. 23; Serial No. 606,023, published Nov. 10, 1953. Class 23.

Mammoth Hosiery Mills, Inc., Philadelphia, Pa. Women's hosiery. 585,963, Feb. 23; Serial No. 630,899, published Nov. 24, 1953. Class 39.

Manchester Hosiery Mills, Manchester, N. H. Hosiery. 586,055, Feb. 23; Serial No. 643,696, published Nov. 17, 1953. Class 39.

Manville, Ernest O., Inc., New York, N. Y. Note paper and correspondence envelopes. 586,017, Feb. 23; Serial No. 640,164, published Nov. 3, 1953. Class 37.

Mar-Gold Corporation, The, Atlanta, Ga. Oleomargarine. 585,929, Feb. 23; Serial No. 619,636, published Nov. 24, 1953. Class 46.

Matzoon, Y. T., Company, to Kazol Inc., Chicago, Ill. Medicinal food. 94,190, re-renewed Nov. 11, 1953. O. G. Feb. 23. Class 46.

Maurey Manufacturing Corporation, Chicago, Ill. Bush-type sheaves. 585,915, Feb. 23; Serial No. 614,001, published Aug. 25, 1953. Class 23.

Mazer, J., Sons, Cigar Company, Detroit, Mich., to W. Wilson Fillmore, Windsor, Pa. Cigars. 309,302, renewed Jan. 9, 1954. O. G. Feb. 23. Class 17.

McNamara, Michael, to Boydell Bros. Co., Detroit, Mich. Liquid first-coater. 94,561, re-renewed Dec. 16, 1953. O. G. Feb. 23. Class 16.

Middlesex Reed Furniture Company: *See*—
Raffael, John, Sr.

Midwest Dairy Products Corporation, Chicago, Ill. Dairy products. 585,919, Feb. 23; Serial No. 615,785, published Nov. 24, 1953. Class 46.

Mock Seed Company, Pittsburgh, Pa. Chemical treatment of grass seed. 586,015, Feb. 23; Serial No. 639,949, published Nov. 24, 1953. Class 6.

Moyer, Walter W., Company, Ephrata, Pa. Women's and children's underwear. 585,898, Feb. 23; Serial No. 604,793, published Nov. 17, 1953. Class 39.

Murray, Leo J., doing business under the name of Hayward Woolen Co., East Douglas, Mass. Textile fabrics. 586,148, Feb. 23; Serial No. 643,850. Class 42.

National Blank Book Company, Holyoke and Riverside, Holyoke, Mass. Notebooks. 586,077, Feb. 23; Serial No. 645,180, published Oct. 27, 1953. Class 37.

National Distillers Products Corporation: *See*—
American Medicinal Spirits Company, The.

National Lacquer & Paint Company, Inc., Chicago, Ill. Ready mixed lacquers, paints, and paint enamels. 444,795, Feb. 23; Serial No. 506,253, published Apr. 14, 1953. Class 16.

National Lead Company, Sayreville, N. J., and New York, N. Y. Diatomaceous materials. 586,096, Feb. 23; Serial No. 646,304, published Nov. 3, 1953. Class 1.

Naumkeag Steam Cotton Company, Salem, Mass. Pillow cases. 174,100–1, Oct. 2, 1923. Republished Feb. 23. Class 42.

Naumkeag Steam Cotton Company, Salem, Mass. Cotton sheeting, sheets, and pillow cases. 437,426, Mar. 23, 1948. Republished Feb. 23. Class 42.

Nebraska Consolidated Mills Company, doing business as Alamaba Flour Mills, Omaha, Nebr. Laying mash. 585,981, Feb. 23; Serial No. 634,799, published Nov. 24, 1953. Class 46.

Neill, James, & Co., to James Neill & Company (Sheffield) Limited, Sheffield, England. Steel. 93,893, re-renewed Oct. 21, 1953. O. G. Feb. 23. Class 14.

Neill, James, & Company (Sheffield) Limited: *See*—
Neill, James, & Co.

Nestle Company, Inc., The, New York, N. Y., and Colorado Springs, Colo. Bouillon cubes. 585,901, Feb. 23; Serial No. 605,673, published Nov. 10, 1953. Class 46.

Nestle-Le Mur Company, The: *See*—
Woelbing, Alfred G. E.

Newark Comfort Company, Newark, N. J. Baby blankets, baby comforters, and baby carriage covers. 586,013, Feb. 23; Serial No. 639,890, published Nov. 24, 1953. Class 42.

New York Association for the Blind, Inc., The, New York, N. Y. Floor brushes. 586,028, Feb. 23; Serial No. 641,953, published Nov. 24, 1953. Class 29.

New York Rubber Corporation, New York, N. Y. Inflatable mattresses, cushions, and pillows. 585,966, Feb. 23; Serial No. 632,314, published Nov. 17, 1953. Class 32.

New Yorker Magazine, Inc., The, New York, N. Y. Magazine column. 437,250, Mar. 9, 1948. Republished Feb. 23. Class 38.

New Yorker Magazine, Inc., The, New York, N. Y. Magazine column. 437,785, Mar. 30, 1948. Republished Feb. 23. Class 38.

Northwestern Consolidated Milling Company, The, Minneapolis, Minn. Wheat flour. 167,627, May 1, 1923. Restricted. O. G. Feb. 23. Class 46.

Nurre Companies, Inc., The, Bloomington, Ind. Glass mirrors. 586,138, Feb. 23; Serial No. 631,120. Class 32.

Ohio Hoist & Manufacturing Company: *See*—
Dickey, James W.

O'Neil Duro Company, Milwaukee, Wis. Paint enamels. 281,562, Mar. 24, 1931. Amended. O. G. Feb. 23. Class 16.

Overland Coach Company, Inc., Chicago, Ill. House trailers. 586,014, Feb. 23; Serial No. 639,894, published Nov. 24, 1953. Class 19.

Oxweld Acetylene Company, Chicago, Ill., to Union Carbide and Carbon Corporation, New York, N. Y. Gas-generators, acetylene-blowpipes, and acetylene cutting-torches. 95,653, re-renewed Mar. 3, 1954. O. G. Feb. 23. Class 34.

Pacific Bone Coal & Fertilizer Company, to Consolidated Chemical Industries, Inc., San Francisco, Calif. Steamed bone meal and ground steam bone. 308,542, renewed Dec. 5, 1953. O. G. Feb. 23. Class 10.

Palamidessi, Emilio: *See*—
Rectaflex Societa Per Azioni.

Parker Brothers, Salem, Mass. Games. 42,055–7, re-renewed Feb. 16, 1954. O. G. Feb. 23. Class 22.

Paxton & Gallagher Co., Omaha, Nebr. Canned peas, etc. 211,665, Apr. 13, 1926. Restricted. O. G. Feb. 23. Class 46.

Pennsylvania Lubricating Company, Pittsburgh, Pa., to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Paint oils. 304,770, renewed July 18, 1953. O. G. Feb. 23. Class 16.

Pepper, Jas. E., & Company: *See*—
Schenley Distillers, Inc.

Persolite Products, Inc., Chicago, assignor to Lake Zurich Concrete Products Inc., Lake Zurich, Ill. Plaster and concrete aggregate. 585,887, Feb. 23; Serial No. 576,552, published Feb. 3, 1953. Class 12.

Philbrick, George A., Researches Inc., Boston, Mass. Measuring and analyzing apparatus. 585,921, Feb. 23; Serial No. 616,335, published Sept. 8, 1953. Class 26.

Picture Craft Company: *See*—
Grossman, Ralph E.

Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 586,025, Feb. 23; Serial No. 641,739, published Nov. 24, 1953. Class 46.

Pinkas, David, doing business as The Jem Company, South Norwalk, Conn. Partially printed tickets to be attached to watches and other jewelry. 585,982, Feb. 23; Serial No. 635,491, published Oct. 27, 1953. Class 37.

Pioneer Flour Mills: *See*—
Guenther, C. H., & Son, Incorporated.

Pneumafil Corporation, Charlotte, N. C. Automatic electrical controls. 585,968, Feb. 23; Serial No. 632,899, published Nov. 10, 1953. Class 21.

Polikoff, Ben, doing business as Polymold Plastics Company, Chicago, Ill. Plastic tile. 585,988, Feb. 23; Serial No. 636,305, published Nov. 24, 1953. Class 12.

Polymold Plastics Company: *See*—
Polikoff, Ben.

Portage Hosiery Company, Portage, Wis. Men's, women's, boys' and girls' athletic hosiery. 586,031, Feb. 23; Serial No. 642,368, published Nov. 17, 1953. Class 39.

Power, Geo. C., Lemon Ranch: *See*—
Culbertson Investment Company.

Precision International, Inc., New York, N. Y. Drawing instruments and drawing articles. 585,952, Feb. 23; Serial No. 626,700, published Sept. 8, 1953. Class 26.

Premtex Hosiery Co., Inc., New York, N. Y. Men's hosiery. 586,041, Feb. 23; Serial No. 642,993, published Nov. 17, 1953. Class 39.

Pretlow Peanut Company, Inc., Franklin, Va. Fancy hand picked Virginia peanuts. 585,895, Feb. 23; Serial No. 600,849, published Sept. 25, 1951. Class 46.

Procter & Gamble Company, The, assignee: *See*—
Stevens, E. S., Co.

Prosser, Thomas W., Riverside, Calif. Soil moisture indicators. 586,056, Feb. 23; Serial No. 643,712, published Sept. 29, 1953. Class 26.

Rabaldo A. G., Unterengstringen, Zurich, Switzerland. Power-actuated shavers and dry shavers. 585,906, Feb. 23; Serial No. 610,026, published Sept. 1, 1953. Class 23.

Raffael, John, Sr., doing business as Middlesex Reed Furniture Company, Wakefield, Mass. Rattan furniture and boudoir chairs. 585,996, Feb. 23; Serial No. 637,309, published Nov. 17, 1953. Class 32.

Rapid Electric Company: *See*—
Viola, James A.

Rectaflex Societa Per Azioni, Rome, Italy, assignee, by mesne assignments, from Telemaco Corsi and Emilio Palamidessi. Cameras and camera parts and attachments. 585,894, Feb. 23; Serial No. 598,835, published Sept. 8, 1953. Class 26.

Reed Roller Bit Company, Houston, Tex. Drill bits. 586,093, Feb. 23; Serial No. 646,016, published Nov. 3, 1953. Class 23.

Reid, Wright & Holloway (Distillers) Limited, London, England. Scotch whisky. 310,926, renewed Mar. 13, 1954. O. G. Feb. 23. Class 49.

Remington Arms Company, Inc., Bridgeport, Conn. Tools. 585,910, Feb. 23; Serial No. 612,353, published Nov. 10, 1953. Class 23.

Robroy Manufacturing Company, Durham, N. C. Truck cranes and cement spreaders and parts thereof. 585,892, Feb. 23; Serial No. 590,837, published Aug. 11, 1953. Class 23.

Rodon Corporation, Rocky River, Ohio. Garment hangers. 586,039, Feb. 23; Serial No. 642,839, published Nov. 3, 1953. Class 50.

Rogers Imports Inc., New York, N. Y. Smoking pipes and cigar and cigarette holders. 585,909, Feb. 23; Serial No. 612,140, published Nov. 24, 1953. Class 8.

Rogers Peet Company, New York, N. Y. Outer suits and overcoats. 95,149, re-renewed Feb. 3, 1954. O. G. Feb. 23. Class 39.

Rohm & Haas Company, Philadelphia, Pa. Synthetic resinous materials of the acrylic ester type. 585,961, Feb. 23; Serial No. 630,443, published June 9, 1953. Class 6.

Rol-Gard Corp.: *See*—
"Rol-Gard", Inc.

"Rol-Gard", Inc., doing business as Rol-Gard Corp., Fargo, N. Dak. Automatic mercury-operated power cut-off. 585,903, Feb. 23; Serial No. 607,869, published Nov. 10, 1953. Class 21.

Rosback, F. P., Company, Benton Harbor, Mich. Printers' and bookbinders' machinery. 585,953, Feb. 23; Serial No. 626,960, published Nov. 10, 1953. Class 23.

Rosedale Knitting Company, Reading, Pa. Hosiery. 585,896, Feb. 23; Serial No. 603,206, published Oct. 16, 1951. Class 39.

Ross, Florence M., Havertown, Pa. Cementitious material. 585,980, Feb. 23; Serial No. 634,269, published Nov. 24, 1953. Class 12.

Russell Chemical Company, The, Cleveland, Ohio. Detergents. 585,934, Feb. 23; Serial No. 621,840, published Nov. 24, 1953. Class 52.

Saddler Textiles, Inc., New York, N. Y. Piece goods. 586,051, Feb. 23; Serial No. 643,616, published Nov. 24, 1953. Class 42.

St. Pierre Chain Corporation, Worcester, Mass. Tire chains. 586,020, Feb. 23; Serial No. 641,221, published Nov. 24, 1953. Class 13.

St. Thomas Inc., Gloversville, N. Y. Billfolds. 586,081, Feb. 23; Serial No. 645,513, published Nov. 24, 1953. Class 3.

Santa Fe Novelty Company, Denver, Colo. Belts. 586,113, Feb. 23; Serial No. 647,545, published Nov. 24, 1953. Class 39.

Saxony Watch Co., New York, N. Y. Watches. 585,979, Feb. 23; Serial No. 634,217, published Apr. 28, 1953. Class 27.

Schenley Distillers, Inc., also doing business as Jas. E. Pepper & Company, New York, N. Y., and Lexington, Ky. Whiskey. 586,024, Feb. 23; Serial No. 641,694, published Nov. 17, 1953. Class 49.

School-Timer Frocks, Inc., Port Park, S. C., and New York, N. Y. Children's dresses, dressing robes, jackets, etc. 586,095, Feb. 23; Serial No. 646,172, published Nov. 24, 1953. Class 39.

Schwartz, Jack, Chicago, Ill. Pipe smoking tobacco. 586,050, Feb. 23; Serial No. 643,559, published Nov. 24, 1953. Class 17.

Schwitzer-Cummins Company, Indianapolis, Ind. Thermostatically controlled disengageable cooling fan drives. 585,974, Feb. 23; Serial No. 633,683, published Sept. 8, 1953. Class 26.

Scott-Allen Clothes: *See*—
Cosmopolitan Manufacturing Company.

Screw Conveyor Corporation, Hammond, Ind. Screw conveyor apparatus. 586,130, Feb. 23; Serial No. 563,501. Class 23.

Seamless Rubber Company, The, New Haven, Conn. Folding fountain syringes. 586,149, Feb. 23; Serial No. 644,933. Class 44.

Sears, Roebuck and Co., Chicago, Ill. Automobile, tractor, and motor bike parts. 586,026, Feb. 23; Serial No. 641,867, published Sept. 22, 1953. Class 23.

Seattle Packing Company, Seattle, Wash. Chili con-carne, bologna, pork sausage, etc. 586,068, Feb. 23; Serial No. 644,520, published Nov. 24, 1953. Class 46.

Seller, Karl, & Sons, Inc.: *See*—
Vogt, F. G., & Sons, Incorporated.

Seinsheimer, H. A., Company, The, Cincinnati, Ohio. Textile fabrics. 586,037, Feb. 23; Serial No. 642,700, published Nov. 24, 1953. Class 42.

Sharwood's: *See*—
Gregory, Seth H.

Sherman Paper Products Corporation, Newton, Mass. Corrugated paper. 586,048, Feb. 23; Serial No. 643,508, published Nov. 3, 1953. Class 37.

Shoenthal, Morris, Inc., New York, N. Y. Textile fabrics. 585,998, Feb. 23; Serial No. 637,726, published Nov. 24, 1953. Class 42.

Showcard Machine Company, Chicago, Ill. Printing inks. 585,938, Feb. 23; Serial No. 622,909, published Nov. 18, 1952. Class 11.

Sier-Bath Gear and Pump Co., Inc., North Bergen, N. J. Gear type pumps. 585,955, Feb. 23; Serial No. 627,306, published Aug. 25, 1953. Class 23.

Smead Manufacturing Company, The, Hastings, Minn. Correspondence folders, expanding file folders, follow-up file folders, etc. 585,959, Feb. 23; Serial No. 628,964, published Nov. 17, 1953. Class 37.

Smith, R. B., & Son Limited, Perth, Scotland. Whisky and other potable distilled liquors. 310,750, renewed Mar. 6, 1954. O. G. Feb. 23. Class 49.

Smythson, Frank, Limited, London, England. Writing paper. 585,926, Feb. 23; Serial No. 618,183, published Oct. 27, 1953. Class 37.

Snyder Chemical Corporation, Bethel, Conn. Synthetic resins especially adapted for use as coatings. 585,957, Feb. 23; Serial No. 627,846, published Sept. 22, 1953. Class 16.

Societe Anonyme des Eaux Minerales d'Evian-les-Bains, Paris, France. Natural mineral waters. 585,990, Feb. 23; Serial No. 636,614, published Nov. 17, 1953. Class 45.

Societe Anonyme Societe St-Raphael, Paris, France. Aperitif wines. 585,924, Feb. 23; Serial No. 617,267, published Nov. 17, 1953. Class 47.

Societe Rhodiaceta, Paris, France. Textile fabrics. 586,064. Feb. 23; Serial No. 644,072, published Nov. 24, 1953. Class 42.

Societe Rhodiaceta, Paris, France. Textile fabrics. 586,069, Feb. 23; Serial No. 644,521, published Nov. 24, 1953. Class 42.

Sparcatron Limited, Somerset and Bath, Somerset, England. Machines for the working of electrically conductive materials. 586,011, Feb. 23; Serial No. 639,788, published Nov. 24, 1953. Class 21.

Speer Carbon Company, St. Marys, Pa. Ceramic capacitors. 586,099, Feb. 23; Serial No. 646,578, published Sept. 22, 1953. Class 21.

Sta-Dri, Inc., Odenton, Md. Mineral powder compound for use as a plaster or mortar, etc. 586,057, Feb. 23; Serial No. 643,799, published Nov. 10, 1953. Class 12.

Standard Hosiery Company, New York, N. Y. Men's, ladies', and children's hosiery. 586,075, Feb. 23; Serial No. 645,014, published Nov. 24, 1953. Class 39.

Stanley Works, The, New Britain, Conn. Hardware. 586,114, Feb. 23; Serial No. 647,556, published Nov. 24, 1953. Class 13.

Stapf Fabrics, Inc., New York, N. Y. Cotton fabrics. 585,889, Feb. 23; Serial No. 584,879, published Nov. 24, 1953. Class 42.

Star Company, to The Hearst Corporation, New York, N. Y. Newspaper-section. 95,678, re-renewed Mar. 3, 1954. O. G. Feb. 23. Class 38.

Stein, S., & Co. Inc., New York, N. Y. Woolen fabrics. 585,951, Feb. 23; Serial No. 626,544, published Nov. 24, 1953. Class 42.

Stern's Nurseries, Inc., Geneva, N. Y. Hibiscus plants. 586,091, Feb. 23; Serial No. 645,739, published Nov. 3, 1953. Class 1.

Stern's Nurseries, Inc., Geneva, N. Y. Crab apple trees. 586,094, Feb. 23; Serial No. 646,021, published Nov. 3, 1953. Class 1.

Stetson, John B., Company, Philadelphia, Pa. Men's and boys' felt and straw hats and cloth caps, men's silk hats, etc. 306,372, Sept. 19, 1933. Republished Feb. 23. Class 39.

Stevens, E. S., Co., Beatrice, Nebr., assginor to The Procter & Gamble Company, Cincinnati, Ohio. Olives, jellies, jams, etc. 586,084, Feb. 23; Serial No. 645,928, published Nov. 3, 1953. Class 46.

Stinson Manufacturing Co., Inc., Spokane, Wash. Scaffold planks. 586,151, Feb. 23; Serial No. 645,841. Class 50.

Stitzel-Weller Distillery: *See*—
Weller, W. L., & Sons.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper and envelopes. 438,725, May 11, 1948. Republished Feb. 23. Class 37.

Street & Smith Publications, Inc., to Street & Smith Publications, Inc., New York, N. Y. Periodical. 305,431, renewed Aug. 15, 1953. O. G. Feb. 23. Class 38.

Style Undies, Inc., New York, N. Y. Children's dresses, panties, slips, etc. 586,106–8, Feb. 23; Serial Nos. 647,107–9, published Nov. 24, 1953. Class 39.

Sunset Line & Twine Co., Petaluma, Calif. Fishing lines. 586,078, Feb. 23; Serial No. 645,201, published Nov. 24, 1953. Class 22.

Swank, Inc., Attleboro, Mass. Cravat holders. 586,143, Feb. 23; Serial No. 635,979. Class 28.

Tampax Incorporated, Palmer, Mass. Catamenial appliances. 585,933, Feb. 23; Serial No. 621,178, published Mar. 17, 1953. Class 44.

Tanquerav, Charles, & Co. Limited, London, England, Gln. 585,937, Feb. 23; Serial No. 622,366, published Nov. 10, 1953. Class 49.

Taylor, S., Co.: *See*—
Taylor, Samuel.

Taylor, Samuel, doing business as S. Taylor Co., Culver City, Calif. Ice picks. 586,140, Feb. 23; Serial No. 632,455. Class 23.

Taylor, Walter P., New York, N. Y. Advertising, directional, road, and warning non-electrical plastic signs. 586,150, Feb. 23; Serial No. 645,678. Class 50.

Teal Corporation, Irvington, N. J. Electrical fixtures and fittings. 586,042, Feb. 23; Serial No. 643,195, published Nov. 10, 1953. Class 21.

Textileather Corporation, Toledo, Ohio. Coated fabrics and resinous sheet material. 586,005, Feb. 23; Serial No. 638,982, published Nov. 3, 1953. Class 50.

Tiedemann & McMorran, Inc., San Francisco, Calif. Canned fruits, canned vegetables, canned soups, etc. 585,900 Feb. 23; Serial No. 605,565, published June 24, 1952. Class 46.

Tri-County Dairy Cooperative, Winthrop, Minn. Commercial feeds. 585,994, Feb. 23; Serial No. 637,156, published Nov. 24, 1953. Class 46.

Union Bag and Paper Company, The, Jersey City, N. J., and New York, N. Y., to Union Bag & Paper Corporation, New York, N. Y. Paper bags. 94,336, re-renewed Nov. 25, 1953. O. G. Feb. 23. Class 2.

Union Bag & Paper Corporation: *See*—
Union Bag and Paper Company, The.

Union Carbide and Carbon Corporation: *See*—
Oxweld Acetylene Company.

United Mills Corporation, Mount Gilead, N. C. Brassières, slips, etc. 548,420, Sept. 18, 1951. Amended. O. G. Feb. 23. Class 39.

United States Bedding Co., The, St. Paul, Minn. Mattresses, box springs, crib mattresses, etc. 586,102, Feb. 23; Serial No. 646,829, published Nov. 17, 1953. Class 32.

U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y. Compounded rubber. 585,971, Feb. 23; Serial No. 633,229, published Nov. 24, 1953. Class 1.

United States Rubber Company, New York, N. Y. Inner tubes. 585,986, Feb. 23; Serial No. 635,889, published Feb. 17, 1953. Class 35.

Universal Fastener Company, Detroit, Mich. Slide fasteners. 586,118. Feb. 23; Serial No. 647,896, published Nov. 24, 1953. Class 13.

Van Camp Sea Food Company, Inc., Terminal Island, Calif. Canned tuna fish. 585,947, Feb. 23; Serial No. 625,928, published Nov. 24, 1953. Class 46.

Van Wert Manufacturing Co., The, Van Wert, Ohio. Overalls, work and dress shirts, service coats, etc. 586,049, Feb. 23; Serial No. 643,516, published Nov. 17, 1953. Class 39.

Vend-A-Record Corporation of America, Baltimore, Md. Coin-operated machines. 586,135, Feb. 23; Serial No. 622,634. Class 23.
Vinyl Plastics, Inc., Sheboygan, Wis. Flexible plastic tiles. 585,962, Feb. 23; Serial No. 630,638, published Nov. 24, 1953. Class 20.
Viola, James A., doing business as Rapid Electric Company, New York, N. Y. Direct current electrical apparatus. 586,065, Feb. 23; Serial No. 644,202, published Nov. 10, 1953. Class 21.
Vogt, F. G., & Sons, Incorporated, to Karl Seller & Sons, Inc., Philadelphia, Pa. Sausage. 307,286, renewed Oct. 24, 1953. O. G. Feb. 23. Class 46.
Wasco Flashing Co., Cambridge, Mass. Skylights. 586,034–5, Feb. 23; Serial Nos. 642,434–5, published Nov. 10, 1953. Class 12.
Waterman Pen Company, Inc., Seymour, Conn. Ball point pens. 586,100, Feb. 23; Serial No. 646,588, published Nov. 10, 1953. Class 37.
Welcraft Products Co., Inc., North Liberty, Ind. Back rests for seats. 585,954, Feb. 23; Serial No. 627,158, published Nov. 17, 1953. Class 32.
Well, Ira O., doing business as La Questa Olive Growers, Corning, Calif. Canned and bottled olives. 586,030, Feb. 23; Serial No. 642,332, published Nov. 24, 1953. Class 46.
Wella Corporation, The, New York, N. Y. Scissors, razors and shears. 585,904, Feb. 23; Serial No. 608,580, published Nov. 10, 1953. Class 23.
Weller, W. L., & Sons, Louisville, to Stitzel-Weller Distillery, Shively, Ky. Whiskies. 310,079–80, renewed Feb. 13, 1954. O. G. Feb. 23. Class 49.
Weller, W. L., & Sons, Louisville, to Stitzel-Weller Distillery, Shively, Ky. Whiskies. 310,529, renewed Feb. 27, 1954. O. G. Feb. 23. Class 49.
Weller, W. L., & Sons, Louisville, to Stitzel-Weller Distillery, Shively, Ky. Whiskies. 312,110, renewed Apr. 17, 1954. O. G. Feb. 23. Class 49.
West Disinfecting Company, Long Island City, N. Y. Machines for vaporizing disinfectants, and/or insecticides, etc. 308,145, renewed Nov. 21, 1953. O. G. Feb. 23. Class 23.
Westcott Rule Company, Inc., Seneca Falls, N. Y. Rulers. 585,949, Feb. 23; Serial No. 626,184, published Sept. 8, 1953. Class 26.
Western Tablet & Stationery Corporation, Dayton, Ohio. Paper tablets; account, data and order books; loose writing paper, etc. 586,019, Feb. 23; Serial No. 640,486, published Nov. 3, 1953. Class 37.
Whirlpool Corporation, St. Joseph, Mich. Electrical ignition system. 585,907, Feb. 23; Serial No. 610,725, published Nov. 17, 1953. Class 21.
White Swan Uniforms, Inc.: *See*—
Cooper, Leo M.
Wickes Corporation, The, Saginaw, Mich. Molded carbon products—namely, machinery bearings, pump vanes, etc. 585,948, Feb. 23; Serial No. 625,936, published Nov. 3, 1953. Class 23.
Wiedemann, Geo., Brewing Co., Inc., The, Newport, Ky. Beer. 585,916, Feb. 23; Serial No. 614,230, published Nov. 17, 1953. Class 48.
Wilkinson, Lester, trustee, assignee: *See*—
Insul-Wool Machinery Manufacturing Co.
Will-Burt Company, The, Orrville, Ohio. Bench vises. 586,070, Feb. 23; Serial No. 644,885, published Nov. 3, 1953. Class 23.
Williams & Humbert, to Williams & Humbert Limited, London, England. Sherry wine. 308,051–2, renewed Nov. 21, 1953. O. G. Feb. 23. Class 47.
Williams & Humbert Limited: *See*—
Williams & Humbert.
Wilson, H. A., Company, The, Union, N. J. Thermostatic bimetals. 586,124–6, Feb. 23; Serial Nos. 649,745–7, published Nov. 24, 1953. Class 14.
Winchester & Woods, Inc., Baltimore, Md. Combination toy watch and trinket box. 585,995, Feb. 23; Serial No. 637,344, published Nov. 24, 1953. Class 22.
Windsor Pen Corp., New York, N. Y. Fountain pens, ball point pens, mechanical pencils, and combinations thereof. 586,038, Feb. 23; Serial No. 642,715, published Nov. 17, 1953. Class 37.
Woelbing, Alfred G. E., doing business as Carma Laboratories, Chicago, Ill., to The Nestle-Le Mur Company, New York, N. Y. Preparation for chapped lips. 309,498, renewed Jan. 16, 1954. O. G. Feb. 23. Class 18.
Wolf, Otto J., Toronto, Ontario, Canada. Intake and exhaust manifold attachments used in conjunction with carburetors, etc. 585,978, Feb. 23; Serial No. 634,177, published Nov. 3, 1953. Class 23.
Wonder-Rest Corporation, Milwaukee, Wis. Mattresses. 585,899, Feb. 23; Serial No. 605,388, published July 31, 1951. Class 32.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Dishwashing composition. 585,891, Feb. 23; Serial No. 588,352, published Nov. 18, 1952. Class 52.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Acid type detergent and scale removing compound. 585,960, Feb. 23; Serial No. 629,134, published Nov. 24, 1953. Class 52.
Wyomissing Glazed Paper Company, West Reading, Pa. Flint glazed paper, friction glazed paper, plated label paper, etc. 586,012, Feb. 23; Serial No. 639,860, published Nov. 24, 1953. Class 37.
Youle, Clint, Wheaton, Ill. Weather thermometers. 585,943, Feb. 23; Serial No. 623,929, published Sept. 8, 1953. Class 26.
Zion Industries, Inc., Zion, Ill. Candles. 585,885, Feb. 23; Serial No. 570,347, published Nov. 3, 1953. Class 46.
Zurn, J. A., Mfg. Co., Erie, Pa. Drains—namely, roof drains, gutter drains, etc. 585,944, Feb. 23; Serial No. 624,377, published Nov. 17, 1953. Class 13.
Zurn, J. A., Mfg. Co., Erie, Pa. Plumbing and drainage products and separating equipment. 585,945, Feb. 23; Serial No. 624,379, published Nov. 17, 1953. Class 13.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coated glass fibers, filaments, and strands. Libbey-Owens-Ford Glass Company. 586,085, Feb. 23; Serial No. 645,906, published Nov. 3, 1953.
Coated glass fibers, filaments, and strands. Libbey-Owens-Ford Glass Company. 586,086, Feb. 23; Serial No. 645,905, published Nov. 3, 1953.
Crab apple trees. Stern's Nurseries, Inc. 586,094, Feb. 23; Serial No. 646,021, published Nov. 3, 1953.
Diatomaceous materials. National Lead Company. 586,096, Feb. 23; Serial No. 646,304, published Nov. 3, 1953.
Hibiscus plants. Stern's Nurseries, Inc. 586,091, Feb. 23; Serial No. 645,739, published Nov. 3, 1953.
Leather. Eagle-Flagg Tanning Corporation. 586,097, Feb. 23; Serial No. 646,372, published Nov. 3, 1953.
Leather, Upholstery. Eagle-Ottawa Leather Company. 586,146, Feb. 23; Serial No. 642,211.
Live chinchillas and chinchilla pelts. Jess & C. A. Cutler, Inc. 586,098, Feb. 23; Serial No. 646,534, published Nov. 3, 1953.
Orchids. Clarelen Orchid Co., Inc. 586,087, Feb. 23; Serial No. 645,870, published Nov. 3, 1953.
Rubber, Compounded. U. S. Rubber Reclaiming Company, Inc. 585,971, Feb. 23; Serial No. 633,229, published Nov. 24, 1953.
Seed, Alfalfa. Berry Seed Company. 586,083, Feb. 23; Serial No. 645,948, published Nov. 3, 1953.

CLASS 2

Bags, Paper. The Union Bag and Paper Company. 94,336, re-renewed Nov. 25, 1953. O. G. Feb. 23.
Cardboard holders, Preformed. P. H. Lange. 586,139, Feb. 23; Serial No. 632,381.

CLASS 3

Billfolds. St. Thomas Inc. 586,081, Feb. 23; Serial No. 643,513, published Nov. 24, 1953.
Cage for birds, Travel. W. L. Blassenham. 586,104, Feb. 23; Serial No. 647,062, published Nov. 24, 1953.
Handbags, Mesh. Fabrique Bag, Inc. 586,047, Feb. 23; Serial No. 643,479, published Nov. 17, 1953.

CLASS 4

Chemical compound for cleaning floors, having incidental preserving and polishing properties. Higley Chemical Company. 307,840, renewed Nov. 7, 1953. O. G. Feb. 23.

CLASS 5

Adhesive liquid cement. Howe & French, Inc. 287,211, Sept. 15, 1931. Amended. O. G. Feb. 23.

CLASS 6

Brake fluid. Genuine Chemicals Corporation. 586,141, Feb. 23; Serial No. 633,306.
Catalyst and coloring products. Arnold, Hoffman & Co., Incorporated. 440,170, Aug. 17, 1948. Republished Feb. 23.
Chemical dyestuffs. Compagnie Francaise des Matieres Colorantes. 585,976, Feb. 23; Serial No. 634,074, published June 9, 1953.
Chemical treatment of grass seed. Mock Seed Company. 586,015, Feb. 23; Serial No. 639,949, published Nov. 24, 1953.
Exterminator for bedbugs, cockroaches, ants, etc. Coughlan Brothers. 94,544, re-renewed Dec. 16, 1953. O. G. Feb. 23.
Synthetic resinous materials of the acrylic ester type. Rohm & Haas Company. 585,961, Feb. 23; Serial No. 630,443, published June 9, 1953.

CLASS 8

Pipes, Smoking, and cigar and cigarette holders. Rogers Imports Inc. 585,909, Feb. 23; Serial No. 612,140, published Nov. 24, 1953.

CLASS 9

Blasting powder, pellet powder, dynamite, etc. Austin Powder Company. 308,311, renewed Nov. 28, 1953. O. G. Feb. 23.

Dynamite and gelatinous explosives, sporting and blasting powder, etc. Hercules Powder Company. 95,760–1, re-renewed Mar. 10, 1954. O. G. Feb. 23.

CLASS 10

Steamed bone meal and ground steam bone. Pacific Bone Coal & Fertilizing Company. 308,542, renewed Dec. 5, 1953. O. G. Feb. 23.

CLASS 11

Inks, Printing. Showcard Machine Company. 585,938, Feb. 23; Serial No. 622,909, published Nov. 18, 1952.

CLASS 12

Asphalt, Chemically treated. Berry Asphalt Company. 585,956, Feb. 23; Serial No. 627,619, published Nov. 24, 1953.
Building material, Quarried. The Babcock Company. 585,991, Feb. 23; Serial No. 636,763, published Nov. 24, 1953.
Cementitious material. F. M. Ross. 585,980, Feb. 23; Serial No. 634,269, published Nov. 24, 1953.
Mineral powder compound for use as a plaster or mortar, etc. Sta-Dri, Inc. 586,057, Feb. 23; Serial No. 643,799, published Nov. 10, 1953.
Plaster and concrete aggregate. Persolite Products, Inc. 585,887, Feb. 23; Serial No. 576,552, published Feb. 3, 1953.
Roof flashing. W. S. Dickey Clay Manufacturing Co. 586,058, Feb. 23; Serial No. 643,823, published Nov. 10, 1953.
Skylights. Wasco Flashing Co. 586,034–5, Feb. 23; Serial Nos. 642,434–5, published Nov. 10, 1953.
Tile, Plastic. B. Polikoff. 585,988, Feb. 23; Serial No. 636,305, published Nov. 24, 1953.
Window and removable sash. The Athens Flooring Company. 585,992, Feb. 23; Serial No. 637,031, published Nov. 24, 1953.

CLASS 13

Auxiliary fitting for a liquid storage tank. Hammond Iron Works. 585,940, Feb. 23; Serial No. 623,414, published Nov. 24, 1953.
Component parts of portable irrigation systems. Farmland Irrigation Company, Inc. 585,970, Feb. 23; Serial No. 633,150, published Nov. 17, 1953.
Conduits. Carlon Products Corporation. 585,972, Feb. 23; Serial No. 633,657, published Nov. 24, 1953.
Continuous weld standard steel pipe and electric weld pipe. Kaiser Steel Corporation. 586,116, Feb. 23; Serial No. 647,629, published Nov. 24, 1953.
Curtain tracks. Automatic Devices Company. 586,109, Feb. 23; Serial No. 647,141, published Nov. 17, 1953.
Drains; namely, roof drains, gutter drains, etc. J. A. Zurn Mfg. Co. 585,944, Feb. 23; Serial No. 624,377, published Nov. 17, 1953.
Hardware. The Stanley Works. 586,114, Feb. 23; Serial No. 647,556, published Nov. 24, 1953.
Hardware, Window cornice. The Eastern Venetian Blind Company. 585,925, Feb. 23; Serial No. 617,655, published Nov. 24, 1953.
Plumbing and drainage products and separating equipment. J. A. Zurn Mfg. Co. 585,945, Feb. 23; Serial No. 624,379, published Nov. 17, 1953.
Slide fasteners. Universal Fastener Company. 586,118, Feb. 23; Serial No. 647,896, published Nov. 24, 1953.
Tire chains. St. Pierre Chain Corporation. 586,020, Feb. 23; Serial No. 641,221, published Nov. 24, 1953.
Wire racks, Vinyl-coated. Artistic Wire Products Company, Inc. 585,917–18, Feb. 23; Serial No. 615,744–5, published Nov. 17, 1953.

CLASS 14

Bimetals, Thermostatic. The H. A. Wilson Company. 586,124–6, Feb. 23; Serial Nos. 649,745–7, published Nov. 24, 1953.
Iron powder and sponge iron. Hoeganaes Sponge Iron Corporation. 586,018, Feb. 23; Serial No. 640,273, published Nov. 24, 1953.
Steel. James Neill & Co. 93,893, re-renewed Oct. 21, 1953. O. G. Feb. 23.
Steel bars, rods, billets, etc. Crucible Steel Company of America. 584,312, Jan. 5, 1954. Corrected. O. G. Feb. 23.

CLASS 16

First-coater, Liquid. M. McNamara. 94,561, re-renewed Dec. 16, 1953. O. G. Feb. 23.
Lacquers, paints, and paint enamels, Ready mixed. National Lacquer & Paint Company, Inc. 444,795, Feb. 23; Serial No. 506,253, published Apr. 14, 1953.
Paint enamels. O'Neil Duro Company. 281,562, Mar. 24, 1931. Amended. O. G. Feb. 23.
Paint oils. Pennsylvania Lubricating Company. 304,770, renewed July 18, 1953. O. G. Feb. 23.
Paints, Dry, paste and ready-mixed. Louisville Paint Mfg. Co. 95,639, re-renewed Mar. 3, 1954. O. G. Feb. 23.
Synthetic resins especially adapted for use as coatings. Snyder Chemical Corporation. 585,957, Feb. 23; Serial No. 627,846, published Sept. 22, 1953.

CLASS 17

Cigarettes. Larus & Brother Company. 586,112, Feb. 23; Serial No. 647,429, published Nov. 24, 1953.
Cigars. Garcia & Vega, Inc. 586,073, Feb. 23; Serial No. 644,971, published Nov. 24, 1953.
Cigars. Garcia & Vega, Inc. 586,074, Feb. 23; Serial No. 644,976, published Nov. 24, 1953.
Cigars. J. Mazer Sons Cigar Company. 309,302, renewed Jan. 9, 1954. O. G. Feb. 23.
Tobacco, Pipe smoking. J. Schwartz. 586,050, Feb. 23; Serial No. 643,559, published Nov. 24, 1953.

CLASS 18

Laxative, Lubricating. V. V. Gesell. 306,064, renewed Sept. 5, 1953. O. G. Feb. 23.
Mineral crystals and evaporated mineral water residue. Famous Mineral Water Co. 306,698, Sept. 26, 1933. Republished Feb. 23.
Preparation for chapped lips. A. G. E. Woelbing. 309,498, renewed Jan. 16, 1954. O. G. Feb. 23.

CLASS 19

Aluminum awnings for house trailers. The Custom Coach Company. 585,997, Feb. 23; Serial No. 637,572, published Nov. 24, 1953.
Trailer apparatus, Transportable. ABC Coach Co. 586,008, Feb. 23; Serial No. 639,299, published Nov. 24, 1953.
Trailers, House. Overland Coach Company, Inc. 586,014, Feb. 23; Serial No. 639,894, published Nov. 24, 1953.
Trucks, Automotive. Bekins Vanlines Company. 405,120, Jan. 11, 1944. Corrected. O. G. Feb. 23.
Vehicle antiskid devices. Gyro Skid-Control Company, Inc. 586,032, Feb. 23; Serial No. 642,409, published Nov. 24, 1953.

CLASS 20

Plastic tiles, Flexible. Vinyl Plastics, Inc. 585,962, Feb. 23; Serial No. 630,638, published Nov. 24, 1953.

CLASS 21

Amplifiers, Power, electrical gyroscopes, servomotors, etc. Avion Instrument Corporation. 585,936, Feb. 23; Serial No. 622,099, published Nov. 10, 1953.
Apparatus for the recording on magnetic tape, etc. Electric & Musical Industries Limited. 585,999, Feb. 23; Serial No. 637,764, published Nov. 10, 1953.
Automatic mercury-operated power cut-off. "Rol-Gard," Inc. 585,903, Feb. 23; Serial No. 607,869, published Nov. 10, 1953.
Batteries, Storage, and spark plugs. The Goodyear Tire & Rubber Company. 310,205, renewed Feb. 13, 1954. O. G. Feb. 23.
Cathode-ray tubes. Consolidated Vultee Aircraft Corporation. 585,950, Feb. 23; Serial No. 626,312, published Nov. 10, 1953.
Ceramic capacitors. Speer Carbon Company. 586,099, Feb. 23; Serial No. 646,578, published Sept. 22, 1953.
Covered metal electrode. Eutectic Welding Alloys Corporation. 586,088, Feb. 23; Serial No. 645,558, published Nov. 10, 1953.
Electric capacitors. Good-All Electric Manufacturing Company. 586,110, Feb. 23; Serial No. 647,291, published Nov. 17, 1953.
Electric fences and electric fence controllers. International Electric Company. 585,967, Feb. 23; Serial No. 632,425, published Nov. 17, 1953.
Electric generating plants. Kohler Co. 585,977, Feb. 23; Serial No. 634,090, published Nov. 3, 1953.
Electric motors. The Hoover Company. 586,001, Feb. 23; Serial No. 638,260, published Nov. 10, 1953.
Electric oven cooking units. The A. J. Lindemann & Hoverson Company. 586,079, Feb. 23; Serial No. 645,247, published Nov. 10, 1953.
Electric wires, Insulated, and insulated electric cables. Essex Wire Corporation. 586,117, Feb. 23; Serial No. 647,840, published Nov. 24, 1953.
Electrical apparatus, Direct current. J. A. Viola. 586,065, Feb. 23; Serial No. 644,202, published Nov. 10, 1953.
Electrical controls, Automatic. Pneumafil Corporation. 585,968, Feb. 23; Serial No. 632,899, published Nov. 10, 1953.
Electrical fixtures and fittings. Teal Corporation. 586,042, Feb. 23; Serial No. 643,195, published Nov. 10, 1953.
Electrical ignition system. Whirlpool Corporation. 585,907, Feb. 23; Serial No. 610,725, published Nov. 17, 1953.
Electrically heated paint, putty, and wallpaper removers. The B & L Tool and Machine Co. 585,941, Feb. 23; Serial No. 623,531, published Nov. 10, 1953.
Electrically heated steam baths, Portable. Home Accessories Manufacturing Company. 585,939, Feb. 23; Serial No. 622,937, published Nov. 10, 1953.
Lampshades. Deena Products Co. 585,897, Feb. 23; Serial No. 604,146, published Nov. 24, 1953.
Lamps, Incandescent. Alfa Photo Corp. 586,003, Feb. 23; Serial No. 638,889, published Nov. 17, 1953.
Machines for the working of electrically conductive materials. Sparcatron Limited. 586,011, Feb. 23; Serial No. 639,788, published Nov. 24, 1953.
Television receiving sets. Kaye-Halbert Corporation. 586,010, Feb. 23; Serial No. 639,475, published Nov. 17, 1953.

Unit comprising a variable resistance and a printed electronic circuit network. Globe-Union Inc. 586,101, Feb. 23; Serial No. 646,759, published Nov. 3, 1953.
Vehicle clearance lights, Electrically operated. Betts Machine Company. 586,137, Feb. 23; Serial No. 628,915.
X-ray tubes. Amperex Electronic Corporation. 586,022, Feb. 23; Serial No. 641,594, published Nov. 24, 1953.

CLASS 22

Fishing-bait, Spoon. W. T. J. Lowe. 94,096, re-renewed Nov. 4, 1953. O. G. Feb. 23.
Fishing lines. Sunset Line & Twine Co. 586,078, Feb. 23; Serial No. 645,201, published Nov. 24, 1953.
Fishing reels. James Heddon's Sons. 586,127, Feb. 23; Serial No. 652,724, published Nov. 24, 1953.
Fishing rods. Lamiglas Company. 586,122, Feb. 23; Serial No. 649,517, published Nov. 24, 1953.
Fishing rods. Lamiglas Company. 586,123, Feb. 23; Serial No. 649,519, published Nov. 24, 1953.
Games. Parker Brothers. 42,055–7, re-renewed Feb. 16, 1954. O. G. Feb. 23.
Inflatable rubber decoys. Deeks, Inc. 586,016, Feb. 23; Serial No. 640,028, published Nov. 24, 1953.
Toy watch and trinket box, Combination. Winchester & Woods, Inc. 585,995, Feb. 23; Serial No. 637,344, published Nov. 24, 1953.

CLASS 23

Automobile, tractor, and motor bike parts. Sears, Roebuck and Co. 586,026, Feb. 23; Serial No. 641,867, published Sept. 22, 1953.
Bench vises. The Will-Burt Company. 586,070, Feb. 23; Serial No. 644,885, published Nov. 3, 1953.
Chain hoists, Nonelectric. J. W. Dickey. 586,131, Feb. 23; Serial No. 611,851.
Chain hoists, Nonelectric. J. W. Dickey. 586,132, Feb. 23; Serial No. 611,892.
Coin-operated machines. Vend-A-Record Corporation of America. 586,135, Feb. 23; Serial No. 622,634.
Cranes, Truck, and cement spreaders and parts thereof. Robroy Manufacturing Company. 585,892, Feb. 23; Serial No. 590,837, published Aug. 11, 1953.
Drill bits. Calumet and Hecla, Inc. 586,067, Feb. 23; Serial No. 644,391, published Nov. 3, 1953.
Drill bits. Reed Roller Bit Company. 586,093, Feb. 23; Serial No. 646,016, published Nov. 3, 1953.
Grab buckets, grapples, hydraulic equipment for operating buckets, etc. Bucyrus-Erie Company. 585,886, Feb. 23; Serial No. 571,509, published Aug. 11, 1953.
Ice picks. S. Taylor. 586,140, Feb. 23; Serial No. 632,455.
Intake and exhaust manifold attachments used in conjunction with carburetors, etc. O. J. Wolf. 585,978, Feb. 23; Serial No. 634,177, published Nov. 3, 1953.
Machinery and equipment for the removal of suspended, colloidal, and dissolved substances, etc. Infilco Incorporated. 585,888, Feb. 23; Serial No. 582,434, published Aug. 25, 1953.
Machines for vaporizing disinfectants, and/or insecticides, etc. West Disinfecting Company. 308,145, renewed Nov. 21, 1953. O. G. Feb. 23.
Molded carbon products—namely, machinery bearings, pump vanes, etc. The Wickes Corporation. 585,948, Feb. 23; Serial No. 625,936, published Nov. 3, 1953.
Outboard motors. Federated Department Stores, Inc. 586,040, Feb. 23; Serial No. 642,875, published Aug. 4, 1953.
Printers' and bookbinders' machinery. F. P. Rosback Company. 585,953, Feb. 23; Serial No. 626,960, published Nov. 10, 1953.
Pumps and parts thereof, Water. Decatur Pump Company. 585,984, Feb. 23; Serial No. 635,525, published Aug. 4, 1953.
Pumps, Centrifugal, and portable coolant tank pump units, etc. Broadbent-Johnston, Inc. 585,920, Feb. 23; Serial No. 616,078, published Aug. 25, 1953.
Pumps, Fire. H. D. Hudson Manufacturing Company. 586,036, Feb. 23; Serial No. 642,642, published Aug. 4, 1953.
Pumps, Gear type. Sier-Bath Gear and Pump Co., Inc. 585,955, Feb. 23; Serial No. 627,306, published Aug. 25, 1953.
Railroad locomotives, the power source of which is an internal combustion engine. The Fate-Root-Heath Company. 586,059, Feb. 23; Serial No. 643,828, published Sept. 1, 1953.
Roller drums. Hyster Company. 586,142, Feb. 23; Serial No. 635,265.
Saw blades, Metal cutting. Diamond Saw Works, Inc. 586,080, Feb. 23; Serial No. 645,471, published Nov. 3, 1953.
Scissors, razors, and shears. The Wella Corporation. 585,904, Feb. 23; Serial No. 608,580, published Nov. 10, 1953.
Screw conveyor apparatus. Screw Conveyor Corporation. 586,130, Feb. 23; Serial No. 563,501.
Shavers. Power-actuated, and dry shavers. Rabaldo A. G. 585,906, Feb. 23; Serial No. 610,026, published Sept. 1, 1953.
Sheaves, Bush-type. Maurey Manufacturing Corporation. 585,915, Feb. 23; Serial No. 614,001, published Aug. 25, 1953.
Tools. Remington Arms Company, Inc. 585,910, Feb. 23; Serial No. 612,353, published Nov. 10, 1953.
Tractor-drawn fertilizer spreaders. Insul-Wool Machinery Manufacturing Co. 586,134, Feb. 23; Serial No. 622,598.
Wrenches, Ratcheting box, screw drivers, pipe wrenches, etc. Malton Tool Corporation. 585,902, Feb. 23; Serial No. 606,023, published Nov. 10, 1953.

CLASS 26

Cameras and camera parts and attachments. Rectaflex Societa Per Azioni. 585,894, Feb. 23; Serial No. 598,835, published Sept. 8, 1953.
Drawing instruments and drawing articles. Precision International, Inc. 585,952, Feb. 23; Serial No. 626,700, published Sept. 8, 1953.
Dress patterns. Elsé Inc. 585,993, Feb. 23; Serial No. 637,119, published Sept. 8, 1953.
Electrical temperature measuring instruments and parts thereof. Illinois Testing Laboratories, Inc. 585,930, Feb. 23; Serial No. 620,541, published Sept. 8, 1953.
Electrical temperature measuring instruments and parts thereof. Illinois Testing Laboratories, Inc. 585,931, Feb. 23; Serial No. 620,543, published Sept. 8, 1953.
Flow meters. Illinois Testing Laboratories, Inc. 585,932, Feb. 23; Serial No. 620,544, published Sept. 8, 1953.
Glasses, Optical. Jake Levin and Son. 586,144, Feb. 23; Serial No. 639,059.
Measuring and analyzing apparatus. George A. Philbrick Researches Inc. 585,921, Feb. 23; Serial No. 616,335, published Sept. 8, 1953.
Measuring and dispensing apparatus. Bowser, Inc. 585,928, Feb. 23; Serial No. 618,911, published Sept. 8, 1953.
Photoelectric color and density measuring instrument. Hellige, Inc. 585,914, Feb. 23; Serial No. 613,990, published Sept. 8, 1953.
Rulers. Westcott Rule Company, Inc. 585,949, Feb. 23; Serial No. 626,184, published Sept. 8, 1953.
Soil moisture indicators. T. W. Prosser. 586,056, Feb. 23; Serial No. 643,712, published Sept. 29, 1953.
Thermometers, Weather. C. Youle. 583,943, Feb. 23; Serial No. 623,929, published Sept. 8, 1953.
Thermostatically controlled disengageable cooling fan drives. Schwitzer-Cummins Company. 585,974, Feb. 23; Serial No. 633,683, published Sept. 8, 1953.

CLASS 27

Watches. Saxony Watch Co. 585,979, Feb. 23; Serial No. 634,217, published Apr. 28, 1953.

CLASS 28

Cravat holders. Swank, Inc. 586,143, Feb. 23; Serial No. 635,979.
Engagement ring and wedding ring, Precious metal. Feature Ring Co., Inc. 586,133, Feb. 23; Serial No. 618,489.
Jewelry. Dearborn Company, Inc. 586,071, Feb. 23; Serial No. 644,901, published Nov. 10, 1953.
Jewelry. J. Giovannetti. 585,923, Feb. 23; Serial No. 616,632, published Dec. 23, 1952.
Pearls and pearl necklaces. A. C. Becken Co. 586,092, Feb. 23; Serial No. 645,770, published Nov. 10, 1953.
Rings, Diamond, and diamonds. M. Freudmann. 586,009, Feb. 23; Serial No. 639,423, published Nov. 10, 1953.
Rings, Finger. Max Fine & Sons, Inc. 586,063, Feb. 23; Serial No. 644,023, published Nov. 10, 1953.

CLASS 29

Brushes, Floor. The New York Association for the Blind, Inc. 586,028, Feb. 23; Serial No. 641,953, published Nov. 24, 1953.
Shaving-brushes. Kampfe Bros. 94,910, re-renewed Jan. 13, 1954. O. G. Feb. 23.

CLASS 32

Back rests for seats. Welcraft Products Co., Inc. 585,954, Feb. 23; Serial No. 627,158, published Nov. 17, 1953.
Desks, Devotional. E. A. Brenner. 586,103, Feb. 23; Serial No. 646,922, published Nov. 17, 1953.
Display stand, Ornamental food. Cresca Company, Inc. 585,927, Feb. 23; Serial No. 618,628, published Nov. 17, 1953.
Furniture, Rattan, and boudoir chairs. J. Raffael, Sr. 585,996, Feb. 23; Serial No. 637,399, published Nov. 17, 1953.
Mattresses. Wonder-Rest Corporation. 585,899, Feb. 23; Serial No. 605,388, published July 31, 1951.
Mattresses, box springs, crib mattresses, etc. The United States Bedding Co. 586,102, Feb. 23; Serial No. 646,829, published Nov. 17, 1953.
Mattresses, cushions, and pillows, Inflatable. New York Rubber Corporation. 585,966, Feb. 23; Serial No. 632,314, published Nov. 17, 1953.
Mirrows, Glass. The Nurre Companies, Inc. 586,138, Feb. 23; Serial No. 631,120.
Tables and chairs, Kitchen and dinette. Douglas Furniture Corporation. 586,043, Feb. 23; Serial No. 643,300, published Nov. 17, 1953.

CLASS 34

Burners, Oil. Anchor Post Fence Company. 307,852, renewed Nov. 7, 1953. O. G. Feb. 23.

Gas-generators, acetylene-blowpipes, and acetylene cutting-torches. Oxweld Acetylene Company. 95,653, renewed Mar. 3, 1954. O. G. Feb. 23.
Heat exchangers, Refinery. Alco Products Incorporated. 308,766, renewed Dec. 19, 1953. O. G. Feb. 23.

CLASS 35

Belts and belting, Machine. Fleming, Birkby & Goodall, Limited. 41,550, re-renewed Dec. 1, 1953. O. G. Feb. 23.
Inner tubes. United States Rubber Company. 585,986, Feb. 23; Serial No. 635,889, published Feb. 17, 1953.
Tires, Pneumatic. Continental-Caoutchouc- und Gutta-Percha-Compagnie. 41,422, re-renewed Nov. 3, 1953. O. G. Feb. 23.

CLASS 37

Correspondence folders, expanding file folders, follow-up file folders, etc. The Smead Manufacturing Company. 585,959, Feb. 23; Serial No. 628,964, published Nov. 17, 1953.
Envelopes. H. P. Braun. 586,082, Feb. 23; Serial No. 645,949, published Nov. 3, 1953.
Envelopes, Mailing. Lakeside Central Company. 586,004, Feb. 23; Serial No. 638,934, published Nov. 10, 1953.
Notebooks. National Blank Book Company. 586,077, Feb. 23; Serial No. 645,180, published Oct. 27, 1953.
Note paper and correspondence envelopes. Ernest O. Manville, Inc. 586,017, Feb. 23; Serial No. 640,164, published Nov. 3, 1953.
Paper, Corrugated. The Ajax Box Company. 585,983, Feb. 23; Serial No. 635,510, published Oct. 27, 1953.
Paper, Corrugated. Sherman Paper Products Corporation. 586,048, Feb. 23; Serial No. 643,508, published Nov. 3, 1953.
Paper, Flint glazed, friction glazed paper, plated label paper, etc. Wyomissing Glazed Paper Company. 586,012, Feb. 23; Serial No. 639,860, published Nov. 24, 1953.
Paper napkins. Fort Howard Paper Company. 586,089, Feb. 23; Serial No. 645,704, published Nov. 3, 1953.
Paper, Safety. Columbia River Paper Mills. 585,989, Feb. 23; Serial No. 636,588, published Nov. 17, 1953.
Paper table napkins. International Cellucotton Products Company. 586,090, Feb. 23; Serial No. 645,712, published Nov. 3, 1953.
Paper tablets; account, data and order books; loose writing paper, etc. Western Tablet & Stationery Corporation. 586,019, Feb. 23; Serial No. 640,486, published Nov. 3, 1953.
Paper, Writing. Frank Smythson Limited. 585,926, Feb. 23; Serial No. 618,183, published Oct. 27, 1953.
Paper, Writing and printing, and envelopes. Strathmore Paper Company. 438,725, May 11, 1948. Republished Feb. 23.
Papers, Heat seal. The Gummed Products Company. 586,045–6, Feb. 23; Serial Nos. 643,420–1, published Nov. 3, 1953.
Partially printed pin-tickets. Goldsmith Bros. 586,006, Feb. 23; Serial No. 639,223, published Nov. 3, 1953.
Partially printed tickets to be attached to watches and other jewelry. D. Pinkas. 585,982, Feb. 23; Serial No. 635,491, published Oct. 27, 1953.
Pencils, Mechanical, and leads. Evenline Products. 586,145, Feb. 23; Serial No. 641,444.
Pens, Ball point. Waterman Pen Company, Inc. 586,100, Feb. 23; Serial No. 646,588, published Nov. 10, 1953.
Pens, Fountain, ball point pens, mechanical pencils and combinations thereof. Windsor Pen Corp. 586,038, Feb. 23; Serial No. 642,715, published Nov. 17, 1953.

CLASS 38

Magazine column. The New Yorker Magazine, Inc. 437,250, Mar. 9, 1948. Republished Feb. 23.
Magazine column. The New Yorker Magazine, Inc. 437,785, Mar. 30, 1948. Republished Feb. 23.
Newspaper-section. Star Company. 95,678, re-renewed Mar. 3, 1954. O. G. Feb. 23.
Periodical. Street & Smith Publications, Inc. 305,431, renewed Aug. 15, 1953. O. G. Feb. 23.

CLASS 39

Belts. Santa Fe Novelty Company. 586,113, Feb. 23; Serial No. 647,545, published Nov. 24, 1953.
Brassières, slips, etc. United Mills Corporation. 548,420, Sept. 18, 1951. Amended. O. G. Feb. 23.
Dresses, dressing robes, jackets, etc., Children's. School-Timer Frocks, Inc. 586,095, Feb. 23; Serial No. 646,172, published Nov. 24, 1953.
Dresses, panties, slips, etc., Children's. Style Undies, Inc. 586,106–8, Feb. 23; Serial Nos. 647,107–9, published Nov. 24, 1953.
Dungarees. Blue Gem Manufacturing Company. 586,072, Feb. 23; Serial No. 644,960, published Nov. 24, 1953.
Handkerchiefs. R. W. Eldridge Company, Inc. 586,021, Feb. 23; Serial No. 641,280, published Nov. 17, 1953.
Hats and cloth caps, Men's and boys' felt and straw, men's silk hats, etc. John B. Stetson Company. 306,372, Sept. 19, 1933. Republished Feb. 23.
Heels, Rubber. Essex Rubber Company. 304,073, renewed June 20, 1953. O. G. Feb. 23.
Hosiery. J. M. Lynch & Bro. 586,033, Feb. 23; Serial No. 642,414, published Nov. 24, 1953.
Hosiery. Manchester Hosiery Mills. 586,055, Feb. 23; Serial No. 643,696, published Nov. 17, 1953.
Hosiery. Rosedale Knitting Company. 585,896, Feb. 23; Serial No. 603,206, published Oct. 16, 1951.
Hosiery, Ladies'. Gotham Hosiery Company, Inc. 586,054, Feb. 23; Serial No. 643,678, published Nov. 24, 1953.
Hosiery, Men's. Premtex Hosiery Co., Inc. 586,041, Feb. 23; Serial No. 642,993, published Nov. 17, 1953.
Hosiery, Men's, ladies', and children's. Standard Hosiery Company. 586,075, Feb. 23; Serial No. 645,014, published Nov. 24, 1953.
Hosiery, Men's, women's, boys', and girls' athletic. Portage Hosiery Company. 586,031, Feb. 23; Serial No. 642,368, published Nov. 17, 1953.
Hosiery, Nylon. Belson Company. 586,052, Feb. 23; Serial No. 643,632, published Nov. 17, 1953.
Hosiery, Women's. Mammoth Hosiery Mills, Inc. 585,963, Feb. 23; Serial No. 630,899, published Nov. 24, 1953.
Hosiery, Women's full-fashioned nylon. Chipman Knitting Mills. 586,061, Feb. 23; Serial No. 643,944, published Nov. 17, 1953.
Jackets, top coats, and slacks, Men's sport. Cosmopolitan Manufacturing Company. 586,147, Feb. 23; Serial No. 642,344.
Overalls, work and dress shirts, service coats, etc. The Van Wert Manufacturing Co. 586,049, Feb. 23; Serial No. 643,516, published Nov. 17, 1953.
Shoe soles. Essex Rubber Company. 305,532, renewed Aug. 22, 1953. O. G. Feb. 23.
Socks and slippers, Combined. The Handcraft Company, Inc. 585,908, Feb. 23; Serial No. 611,842, published Nov. 10, 1953.
Socks, Women's foot. Janedale Hosiery Mills, Inc. 586,066, Feb. 23; Serial No. 644,321, published Nov. 24, 1953.
Suits, Outer, and overcoats. Rogers Peet Company. 95,149, re-renewed Feb. 3, 1954. O. G. Feb. 23.
Top coats, overcoats, suits, etc., Men's. H. Freeman & Son, Inc. 586,105, Feb. 23; Serial No. 647,066, published Nov. 24, 1953.
Underwear, Women's and children's. Walter W. Moyer Company. 585,898, Feb. 23; Serial No. 604,793, published Nov. 17, 1953.
Uniforms, Nurses', maids' uniforms, and uniform dresses. L. M. Cooper. 302,853, renewed May 2, 1953. O. G. Feb. 23.

CLASS 42

Blankets, Baby, baby comforters, and baby carriage covers. Newark Comfort Company. 586,013, Feb. 23; Serial No. 639,890, published Nov. 24, 1953.
Cloth used in bookbinding. The Holliston Mills. 94,995, re-renewed Jan. 20, 1954. Feb. 23.
Draperies, card table covers, and piece goods. Edson, Incorporated. 586,023, Feb. 23; Serial No. 641,655, published Nov. 24, 1953.
Fabrics, Cotton. Stapf Fabrics, Inc. 585,889, Feb. 23; Serial No. 584,879, published Nov. 24, 1953.
Fabrics, Textile. Farbenfabriken Bayer. 585,985, Feb. 23; Serial No. 635,823, published Nov. 24, 1953.
Fabrics, Textile. L. J. Murray. 586,148, Feb. 23; Serial No. 643,850.
Fabrics, Textile. The H. A. Seinsheimer Company. 586,037, Feb. 23; Serial No. 642,700, published Nov. 24, 1953.
Fabrics, Textile. Morris Shoenthal, Inc. 585,998, Feb. 23; Serial No. 637,726, published Nov. 24, 1953.
Fabrics, Textile. Societe Rhodiaceta. 586,064, Feb. 23; Serial No. 644,072, published Nov. 24, 1953.
Fabrics, Textile. Societe Rhodiaceta. 586,069, Feb. 23; Serial No. 644,521, published Nov. 24, 1953.
Fabrics, Woolen. S. Stein & Co. Inc. 585,951, Feb. 23; Serial No. 626,544, published Nov. 24, 1953.
Flexible plastic film, and shelf lining, shelf edging, etc. The Kaybee Corporation. 586,060, Feb. 23; Serial No. 643,911, published Nov. 24, 1953.
Netting, Fish. The Linen Thread Co., Inc. 586,000, Feb. 23; Serial No. 637,931, published Nov. 24, 1953.
Piece goods. Goodall-Sanford, Inc. 586,076, Feb. 23; Serial No. 645,041, published Nov. 24, 1953.
Piece goods. John G. Hardy Limited. 585,912, Feb. 23; Serial No. 612,859, published Nov. 24, 1953.
Piece goods. John G. Hardy Limited. 585,922, Feb. 23; Serial No. 616,558, published Nov. 24, 1953.
Piece goods. Saddler Textiles, Inc. 586,051, Feb. 23; Serial No. 643,616, published Nov. 24, 1953.
Piece goods, Cotton. Joseph Bancroft & Sons Co. 306,595, Sept. 26, 1933. Republished Feb. 23.
Piece goods, Knit and woven, and pile fabrics. Callaway Mills. 311,732, renewed Apr. 3, 1954. O. G. Feb. 23.
Piece goods, Tubular cotton jersey. Barbet Mills, Inc. 586,007, Feb. 23; Serial No. 639,260, published Nov. 24, 1953.
Piece goods, Woolen. Botany Mills, Inc. 586,152, Feb. 23; Serial No. 651,691.
Pillow cases. Naumkeag Steam Cotton Company. 174,100–1, Oct. 2, 1923. Republished Feb. 23.
Rugs and carpets, Woven pile. Bigelow-Sanford Carpet Co., Inc. 585,935, Feb. 23; Serial No. 622,002, published Nov. 24, 1953.
Sheeting, Cotton, sheets, and pillow cases. Naumkeag Steam Cotton Company. 437,426, Mar. 23, 1948. Republished Feb. 23.

CLASS 44

Catamenial appliances. Tampax Incorporated. 585,933, Feb. 23; Serial No. 621,178, published Mar. 17, 1953.
Hypodermic injection devices. The Compule Corporation. 585,958, Feb. 23; Serial No. 628,022, published Nov. 17, 1953.
Syringes, Folding fountain. The Seamless Rubber Company. 586,149, Feb. 23; Serial No. 644,933.
Trusses. L. P. Mack. 585,911, Feb. 23; Serial No. 612,811, published Nov. 24, 1953.

CLASS 45

Grape juice. Flagstaff Foods. 586,027, Feb. 23; Serial No. 641,922, published Nov. 17, 1953.
Mineral waters, Natural. Societe Anonyme des Eaux Minerales d'Evian-les-Bains. 585,990, Feb. 23; Serial No. 636,614, published Nov. 17, 1953.
Soft drinks, Non-alcoholic maltless. Florasynth Laboratories, Incorporated. 586,002, Feb. 23; Serial No. 638,643, published Nov. 24, 1953.

CLASS 46

Bouillon cubes. The Nestle Company, Inc. 585,901, Feb. 23; Serial No. 605,673, published Nov. 10, 1953.
Candies. Zion Industries, Inc. 585,885, Feb. 23; Serial No. 570,347, published Nov. 3, 1953.
Canned and bottled olives. I. O. Well. 586,030, Feb. 23; Serial No. 642,332, published Nov. 24, 1953.
Canned fruits, canned vegetables, canned soups, etc. Tiedemann & McMorran, Inc. 585,900, Feb. 23; Serial No. 605,565, published June 24, 1952.
Canned peas, etc. Paxton & Gallagher Co. 211,665, Apr. 13, 1926. Restricted. O. G. Feb. 23.
Canned tuna fish. Van Camp Sea Food Company, Inc. 585,947, Feb. 23; Serial No. 625,928, published Nov. 24, 1953.
Canned vegetables. Donahoe's Inc. 307,335, renewed Oct. 24, 1953. O. G. Feb. 23.
Cereal, Ready-to-eat. General Mills, Inc. 586,120, Feb. 23; Serial No. 648,661, published Nov. 24, 1953.
Chewing gum. Amm-O-Gum, Inc. 585,946, Feb. 23; Serial No. 625,324, published Nov. 24, 1953.
Chili con-carne, bologna, pork sausage, etc. Seattle Packing Company. 586,068, Feb. 23; Serial No. 644,520, published Nov. 24, 1953.
Coffee. The U. & J. Lenson Corp. 586,029, Feb. 23; Serial No. 641,994, published Nov. 24, 1953.
Confections, Frozen, and ice cream confection on sticks. Frozen Confections, Inc. 310,480, renewed Feb. 27, 1954. O. G. Feb. 23.
Cookie dough, Frozen. D. Ferguson. 585,987, Feb. 23; Serial No. 636,227, published Nov. 10, 1953.
Dairy products. Midwest Dairy Products Corporation. 585,919, Feb. 23; Serial No. 615,785, published Nov. 24, 1953.
Feeds, Commercial. Tri-County Dairy Cooperative. 585,994, Feb. 23; Serial No. 637,156, published Nov. 24, 1953.
Flour, Wheat. Acme-Evans Company, Inc. 585,969, Feb. 23; Serial No. 633,138, published Nov. 24, 1953.
Flour, Wheat. C. H. Guenther & Son, Incorporated. 585,890, Feb. 23; Serial No. 588,214, published Nov. 24, 1953.
Flour, Wheat. International Milling Company. 586,111, Feb. 23; Serial No. 647,419, published Nov. 24, 1953.
Flour, Wheat. The Northwestern Consolidated Milling Company. 167,627, May 1, 1923. Restricted. O. G. Feb. 23.
Flour, Wheat. Pillsbury Mills, Inc. 586,025, Feb. 23; Serial No. 641,739, published Nov. 24, 1953.
Food, Medicinal. Y. T. Matzoon Company. 94,190, renewed Nov. 11, 1953. O. G. Feb. 23.
Fruit, Fresh citrus. Culbertson Lemon Association. 338,703, Sept. 15, 1936. New certificate. O. G. Feb. 23.
Fruit, Fresh citrus. Culbertson Lemon Assn. 338,704–5, Sept. 15, 1936. New certificate. O. G. Feb. 23.
Fruit, Fresh citrus. Culbertson Lemon Assn. 372,670, Nov. 7, 1939. New certificate. O. G. Feb. 23.
Fruit, Fresh citrus. Deerfield Groves Company. 586,121, Feb. 23; Serial No. 649,133, published Nov. 24, 1953.
Fruits, Fresh citrus. Culbertson Investment Company. 433,738, Oct. 28, 1947. New certificate. O. G. Feb. 23.
Grapes, Fresh. F. G. Cary. 302,057, renewed Mar. 28, 1953. O. G. Feb. 23.
Grapes, Fresh. Fremont Fruit Association. 310,863, renewed Mar. 13, 1954. O. G. Feb. 23.
Laying mash. Nebraska Consolidated Mills Company. 585,981, Feb. 23; Serial No. 634,799, published Nov. 24, 1953.
Oleomargarine. The Mar-Gold Corporation. 585,929, Feb. 23; Serial No. 619,636, published Nov. 24, 1953.
Olives, jellies, jams, etc. E. S. Stevens Co. 586,084, Feb. 23; Serial No. 645,928, published Nov. 3, 1953.
Peanut butter and apple jelly combined. B & W Food Company. 585,913, Feb. 23; Serial No. 613,358, published Nov. 24, 1953.
Peanuts, Fancy hand picked Virginia. Pretlow Peanut Company, Inc. 585,985, Feb. 23; Serial No. 600,849, published Sept. 25, 1951.
Pickles, Sliced dill. Brown-Miller Company. 585,964, Feb. 23; Serial No. 631,266, published Nov. 24, 1953.
Sandwiches. S. H. Gregory. 585,965, Feb. 23; Serial No. 632,300, published Nov. 24, 1953.
Sausage. F. G. Vogt & Sons, Incorporated. 307,286, renewed Oct. 24, 1953. O. G. Feb. 23.
Wheat-flour, Self-rising. The Dunlop Milling Company. 94,891, re-renewed Jan. 13, 1954. O. G. Feb. 23.

CLASS 47

Wine, Port. Croft & Co. Limited. 307,321, renewed Oct. 24, 1953. O. G. Feb. 23.
Wine, Sherry. Williams & Humbert. 308,051–2, renewed Nov. 21, 1953. O. G. Feb. 23.
Wines. E. & J. Gallo Winery. 586,119, Feb. 23; Serial No. 648,385, published Nov. 24, 1953.
Wines, Aperitif. Societe Anonyme Societe St-Raphael. 585,924, Feb. 23; Serial No. 617,267, published Nov. 17, 1953.
Wines, Port. Croft & Co. Limited. 307,320, renewed Oct. 24, 1953. O. G. Feb. 23.

CLASS 48

Beer. The Geo. Wiedemann Brewing Co., Inc. 585,916, Feb. 23; Serial No. 614,230, published Nov. 17, 1953.

CLASS 49

Brandies, Cognac. Courvoisier, Limited. 308,389, renewed Dec. 5, 1953. O. G. Feb. 23.
Gin. Charles Tanqueray & Co. Limited. 585,937, Feb. 23; Serial No. 622,366, published Nov. 10, 1953.
Liqueur. A. & G. J. Caldwell, Inc. 586,115, Feb. 23; Serial No. 647,594, published Nov. 17, 1953.
Whiskey. The American Medicinal Spirits Company. 312,011, renewed Apr. 10, 1954. O. G. Feb. 23.
Whiskey. Kentucky Distilling Co., Inc. 585,975, Feb. 23; Serial No. 633,986, published Nov. 17, 1953.
Whiskey. Schenley Distillers, Inc. 586,024, Feb. 23; Serial No. 641,694, published Nov. 17, 1953.
Whiskey. The American Medicinal Spirits Company. 311,999, renewed Apr. 10, 1954. O. G. Feb. 23.
Whiskies. W. L. Weller & Sons. 310,079–80, renewed Feb. 13, 1954. O. G. Feb. 23.
Whiskies. W. L. Weller & Sons. 310,529, renewed Feb. 27, 1954. O. G. Feb. 23.
Whiskies. W. L. Weller & Sons, Inc. 312,110, renewed Apr. 17, 1954. O. G. Feb. 23.
Whisky and other potable distilled liquors. R. B. Smith & Son Limited. 310,750, renewed Mar. 6, 1954. O. G. Feb. 23.
Whisky, Scotch. Reid, Wright & Holloway (Distillers) Limited. 310,926, renewed Mar. 13, 1954. O. G. Feb. 23.

CLASS 50

Chalk and display board, Reversible. Claridge Equipment Company. 586,053, Feb. 23; Serial No. 643,651, published Nov. 3, 1953.
Coated fabrics and resinous sheet material. Textileather Corporation. 586,005, Feb. 23; Serial No. 638,982, published Nov. 3, 1953.
Figurines, etc., Earthenware, porcelain, or bone china. Doulton & Co., Limited. 586,062, Feb. 23; Serial No. 644,018, published Nov. 24, 1953.
Hangers, Garment. Rodon Corporation. 586,039, Feb. 23; Serial No. 642,839, published Nov. 3, 1953.
Painting kits, Artist's. R. E. Grossman. 585,942, Feb. 23; Serial No. 623,882, published Nov. 3, 1953.
Painting kits, Artist's. R. E. Grossman. 586,136, Feb. 23; Serial No. 626,673.
Scaffold planks. Stinson Manufacturing Co., Inc. 586,151, Feb. 23; Serial No. 645,841.
Signs. Advertising, directional, road, and warning non-electrical plastic. W. P. Taylor. 586,150, Feb. 23; Serial No. 645,678.

CLASS 51

Cosmetic kits. Richard Hudnut. 585,973, Feb. 23; Serial No. 633,672, published Nov. 24, 1953.
Cosmetics. Max Factor & Co. 585,905, Feb. 23; Serial No. 608,654, published Mar. 24, 1953.
Mouth wash and soap for the teeth. Castilla Products, Inc. 586,044, Feb. 23; Serial No. 643,405, published Nov. 24, 1953.
Perfumes and colognes. Muriel Bell Incorporated. 585,893, Feb. 23; Serial No. 595,184, published Oct. 28, 1952.
Toilet powder, perfume, talcum powder, etc. Arkwright Merchandising Corporation. 310,475, renewed Feb. 27, 1954. O. G. Feb. 23.

CLASS 52

Detergent, Acid type, and scale removing compound. Wyandotte Chemicals Corporation. 585,960, Feb. 23; Serial No. 629,134, published Nov. 24, 1953.
Detergents. The Russell Chemical Company. 585,934, Feb. 23; Serial No. 621,840, published Nov. 24, 1953.
Dishwashing composition. Wyandotte Chemicals Corporation. 585,891, Feb. 23; Serial No. 588,352, published Nov. 18, 1952.

CLASS 101

Sales engineering. M. J. Johnson. 586,128, Feb. 23; Serial No. 604,481, published Nov. 17, 1953.
Sales promotion of clients' goods or services, etc. Belnap & Thompson, Inc. 586,129, Feb. 23; Serial No. 644,715, published Sept. 29, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF FEBRUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Baisch, Richard K., Cottage City, Md., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Armor shield for projectile type fastening. Re. 23,786, Feb. 23.
Davis, Herbert L., Walpole, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for coating strip material. Re. 23,787, Feb. 23.
Deering Milliken Research Trust, assignee: *See*—
Strother, Fred P.
Detjen, Edgar W., assignor to Stoelting Brothers Company, Kiel, Wis. Washing aluminum kitchen utensils. Re. 23,788, Feb. 23.
Goodrich, B. F., Company, The, assignee: *See*—
Davis, Herbert L.
Montgomery, Harold R., Niagara Falls, Ontario, Canada, assignor to Norton Company, Worcester, Mass. Mixed borides. Re. 23,789, Feb. 23.
Norton Company, assignee: *See*—
Montgomery, Harold R.
Remington Arms Company, Inc., assignee: *See*—
Baisch, Richard K.
Stoelting Brothers Company, assignee: *See*—
Detjen, Edgar W.
Strother, Fred P., Shawmut, Ala., assignor to Deering Milliken Research Trust, New York, N. Y. Method and means for control of independently variable characteristics. Re. 23,790, Feb. 23.

LIST OF PLANT PATENTEES

Germain's, Inc., assignee: *See*—
Lammerts, Walter E.
Hauenstein, W., Sohne, assignee: *See*—
Romy, Robert
Lammerts, Walter E., La Canada, assignor, by mesne assignments, to Germain's, Inc., Van Nuys, Calif. Rose plant. 1,259, Feb. 23.
Romy, Robert, Geneva, assignor to W. Hauenstein Sohne, Rafz (Zurich), Switzerland. Raspberry plant. 1,258, Feb. 23.

LIST OF DESIGN PATENTEES

American Floor Surfacing Machine Company, The, assignee: *See*—
Latimer, Charles A.
Babcock, Charles E., Pismo Beach, Calif. Hair clipper holder. 171,523, Feb. 23.
Baender, Richard G., Delano, Calif. Disposable glove. 171,524, Feb. 23.
Bergmann, Hans K., Grayslake, Ill. Carriage. 171,525, Feb. 23.
Berns Manufacturing Corporation, assignee: *See*—
Podall, Robert.
Brotherton, Vincent E., Van Nuys, Calif. Game table. 171,526, Feb. 23.
Brown, Arthur J., Pasadena, Calif. Ash tray. 171,527, Feb. 23.
Canter, James A., assignor to General Motors Corporation, Dayton, Ohio. Water cooler. 171,528, Feb. 23.
Channel Master Corporation, assignee: *See*—
Rutter, Sheldon.
Cherry, William J., assignor of one-half to B. E. McGrath, Chicago, Ill. Burial couch. 171,529, Feb. 23.
Chiarelli, Paul P., Brooklyn, N. Y., assignor to Chicopee Mills, Inc., Textile fabric. 171,530, Feb. 23.
Chicopee Mills, Inc., assignee: *See*—
Chiarelli, Paul P.
Cramer, Samuel, West Hartford, Conn. Cosmetic and medicine container. 171,531, Feb. 23.
Del Mas, Christy M., assignor to M. P. Grace, New York, N. Y. Brush. 171,532, Feb. 23.
Eastman Kodak Company, assignee: *See*—
Van Dyck, Kenneth A.
Ehrman, Mortimer H., New York, N. Y. Embroidered fabric. 171,533, Feb. 23.
Ferguson, Alan C., assignor to Hyde Manufacturing Company, Southbridge, Mass. Razor blade scraper. 171,534, Feb. 23.
Fisher, Maurice H., Douglas County, Colo. Tool sheath. 171,535, Feb. 23.
Flanagin, Anna Z., Bozeman, Mont. Pilowcase. 171,536, Feb. 23.
French, Richard S., Waterville, assignor to Keyes Fibre Company, Portland, Maine. Molded pulp insulation member. 171,537, Feb. 23.
General Motors Corporation, assignee: *See*—
Canter, James A.
Gershen, Irvin J., Hillside, N. J., assignor to J. and S. Oshman, New York, N. Y. Medicament dispenser. 171,538, Feb. 23.
Goodsell, James A., Hudson, Mich. Rotary spit unit for roasting. 171,539, Feb. 23.
Grace, Michael P., assignee: *See*—
Del Mas, Christy M.
Grun, Otto, New York, N. Y. Decanter or similar article. 171,540, Feb. 23.
Halley, Sam W., Indianapolis, Ind. Illuminable font. 171,541, Feb. 23.
Harrel & Co., assignee: *See*—
Harrel, Dean S.
Harrel, Dean S., assignor to Harrel & Co., Los Angeles, Calif., a limited partnership doing business as World's Best Broiler Brazier Mfg. Co., Ltd. Combination broiler and brazier. 171,542, Feb. 23.
Hennessy, Robert E., Summit, N. J., assignor to National Distillers Products Corporation, New York, N. Y. Decanter. 171,543, Feb. 23.
Hyde Manufacturing Company, assignee: *See*—
Ferguson, Alan C.
Jocelyn, Douglas L., Detroit, Mich. Pitcher or similar article. 171,544, Feb. 23.
Johnson, Rodney A., Salem, N. J. Television program display stand. 171,545, Feb. 23.
Keyes Fibre Company, assignee: *See*—
French, Richard S.
Lakso, Eino E., Fitchburg, Mass., assignor to Nashua Corporation, Nashua, N. H. Tape dispenser casing. 171,546, Feb. 23.
Latimer, Charles A., assignor to The American Floor Surfacing Machine Company, Toledo, Ohio. Electric chain saw. 171,547, Feb. 23.
Marholz, Richard C., Chicago, Ill., assignor to Raytheon Manufacturing Company. Escutcheon plate for television receivers. 171,548, Feb. 23.
Matheson, James N., West Reading, assignor to Willson Products, Inc., Reading, Pa. Swim mask. 171,549, Feb. 23.
Mayer, Carl G., Madison, Wis., assignor to Oscar Mayer & Co., Inc., Chicago, Ill. Automotive vehicle. 171,550, Feb. 23.
Mayer, Oscar, & Co., Inc., assignee: *See*—
Mayer, Carl G.
McGrath, Bridgit E., assignee: *See*—
Cherry, William J
McKaig, Charles H., Camillus, assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 171,551, Feb. 23.
Nashua Corporation, assignee: *See*—
Lakso, Eino E.
National Brush Company, assignee: *See*—
Racicot, Albert R.
National Distillers Products Corporation, assignee: *See*—
Hennessy, Robert E.
Onondaga Pottery Company, assignee: *See*—
McKaig, Charles H.

Oshman, Joseph, assignee: *See*—
Gershen, Irvin J.
Oshman, Solomon, assignee: *See*—
Gershen, Irvin J.
Patchogue-Plymouth Mills Corporation, assignee: *See*—
Petroske, John J.
Petroske, John J., Methuen, Mass., assignor to Patchogue-Plymouth Mills Corporation, New York, N. Y. Textile fabric. 171,552, Feb. 23.
Podall, Robert, assignor to Berns Manufacturing Corporation, Chicago, Ill. Portable humidifier or the like. 171,553, Feb. 23.
Podall, Robert, assignor to Berns Manufacturing Corporation, Chicago, Ill. Housing for a window ventilator. 171,554, Feb. 23.
Podall, Robert, assignor to Berns Manufacturing Corporation, Chicago, Ill. Floor type air circulator. 171,555, Feb. 23.
Racicot, Albert R., assignor to National Brush Company, Aurora, Ill. Brush. 171,556, Feb. 23.
Raytheon Manufacturing Company, assignee: *See*—
Marholz, Richard C.
Remstein, William, Syracuse, N. Y. Stand for television receivers. 171,557, Feb. 23.
Rice, Arlo E., Mineral Wells, Tex. Tree stand. 171,558, Feb. 23.
Rienks, George W., Denver, Colo. Spray type lawn sprinkler. 171,559, Feb. 23.
Rutter, Sheldon, Evanston, Ill., assignor to Channel Master Corporation, Ellenville, N. Y. Indoor television antenna. 171,560, Feb. 23.
Smissen, William P., Kokomo, Ind. Wheel balancing weight. 171,561, Feb. 23.
Towle, Elmer J., San Francisco, Calif. Wristband for a wrist watch. 171,562, Feb. 23.
Turner, Roy T.: *See*—
Zarzana, Bernard J., and Turner.
Tylon, Samuel, Cleveland, Ohio. Ring holder. 171,563, Feb. 23.
Van Dyck, Kenneth A., assignor to Eastman Kodak Company, Rochester, N. Y. Filter sheath. 171,564, Feb. 23.
Wickman, Emil E., Orinda, Calif. Safety tool for pressure tank cars. 171,565, Feb. 23.
Willson Products, Inc., assignee: *See*—
Matheson, James N.
World's Best Broiler Brazier Mfg. Co., Ltd., assignee: *See*—
Harrel, Dean S.
Wylie, William H., Oklahoma City, Okla. Asphalt patching machine. 171,566, Feb. 23.
Zarzana, Bernard J., and R. T. Turner, Whittier, Calif. Glass rack. 171,567, Feb. 23.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF FEBRUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A P Controls Corporation, assignee: *See*—
Biermann, William A., and Sloane.
Abbott Machine Co., Inc., assignee: *See*—
Perry, Winthrop L.
Perry, Winthrop L., and Ring.
Abbott, William G., Jr., Milford, N. H. Reaction device. 2,669,836, Feb. 23.
Ablah, Frank J., assignee: *See*—
McMillan, James O.
Adams, George F., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Extraction of oleaginous materials from solid substances. 2,670,317, Feb. 23.
Adams, Paul L., Dubuque, Iowa. Valve float coupling. 2,670,007, Feb. 23.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Croston, Clarence B., Teeter, and Cowan.
Graham, Robert P., Neel, and Fishman.
Mehltretter, Charles L., Mellies, and Rankin.
Air Preheater Corporation, The, assignee: *See*—
Hammond, William E., Lidford, and Ballard.
Lundstrom, Ernest A.
Aitken, William H.: *See*—
Hartman, Robert B., and Aitken.
Albers-Schoenberg, Ernst, Metuchen, assignor to Steatite Research Corporation, Keasbey, N. J. Magnesium-zinc ceramic ferrite containing copper. 2,670,331, Feb. 23.
Aldridge, Kenneth G., assignor to Johnson, Matthey & Company Limited, London, England. Transfer applying device for glass, ceramic, and other ware. 2,669,796, Feb. 23.
Alkaline Batteries, Limited, assignee: *See*—
Field, Braham R.
All Metal Products Company, assignee: *See*—
Morgan, Allan.
Allan, John, and E. B. Thomas, Spondon, near Derby, England, assignors to British Celanese Limited. Production of fibrous webs. 2,670,316, Feb. 23.
Allen-Bradley Company, assignee: *See*—
Dawe, Albert J., Matthias, and De Smidt.
Allen, William W., assignor to American Chemical Paint Company, Ambler, Pa. Plant growth regulation. 2,670,282, Feb. 23.
Allied Chemical & Dye Corporation, assignee: *See*—
Joffe, Jack D.
Miller, Charles B., and Calfee.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Ray, James L.
Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Forwald, Haakon.
Almond, John R., Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Relay valve for vacuum brake systems. 2,670,247, Feb. 23.
Alta Engineering Company, assignee: *See*—
Coates, J. Edwin.
Aluminum Company of America, assignee: *See*—
McClintock, Thomas I., and Hurst.
Aluminum Foil Packaging Co., assignee: *See*—
Swaine, William G.
Amdursky, Mark E.: *See*—
Szegho, Constantin S., Reed, and Amdursky.
Amer, Myrtle A., Long Beach, Calif. Dishwashing machine. 2,670,000, Feb. 23.
American Bitumuls & Asphalt Company, assignee: *See*—
McCoy, Paul E.
McCoy, Paul E., and Neill.
American Can Company, assignee: *See*—
Dobbins, Walter J., 3rd.
American Chemical Paint Company, assignee: *See*—
Allen, William W.
American Cyanamid Company, assignee: *See*—
Kuh, Erwin, and Seeger.
Spalding, William L.
West, Herbert J., and Goodemoot.
American Flange & Manufacturing Co. Inc., assignee: *See*—
Strickland, George.
American Forging & Socket Company, assignee: *See*—
Duncan, Charles R.
American Home Products Corporation, assignee: *See*—
Heisterkamp, Charles A., Dann, and Dura.
American Instrument Co., Inc., assignee: *See*—
Moore, Thomas G., and Harvill.
Shapiro, Justin J.
American Wheelabrator & Equipment Corporation, assignee: *See*—
Hutchison, Thomas J., Jr.
Anderson, Elnar H., La Grange Park, Ill. Jaw crusher. 2,670,141, Feb. 23.
Anderson, James N., Caldwell, and W. S. Viall, Jr., Millburn, N. J., assignors to Curtiss-Wright Corporation. Limit switch. 2,670,415, Feb. 23.
Anderson, Walter L., Wichita, Kans. Collapsible ironing table. 2,669,794, Feb. 23.
Andreasen, Alfred H. M.: *See*—
Frokjaer-Jensen, Axel, and Andreasen.
Ansul-Craft, Inc., assignee: *See*—
Perry, Edward D., and Garzone.
Antonson, John O., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire for use on ice. 2,670,024, Feb. 23.
Applegate, Raymond P., Hicksville, assignor of one-half to C. P. Molla, New Hyde Park, N. Y. Yieldable shipping mount for missiles and the like. 2,670,166, Feb. 23.
Arco Company, The, assignee: *See*—
Lansing, Charles B., and Hart.
Arcus, Alex A.: *See*—
Luttringhaus, Hans, and Arcus.
Armentrout, Arthur L., Long Beach, Calif. Liner hanger and actuator therefor. 2,670,045, Feb. 23.
Armitage, Bronson W., assignor of one-half to W. A. Forbes, Portland, Oreg. Christmas tree stand. 2,670,163, Feb. 23.
Armstrong Cork Company, assignee: *See*—
Moore, Donald W., and Searl.
Arvin Industries, Inc., assignee: *See*—
Ludlow, Edmund.
Ash, Charles S., San Francisco, Calif. Smoking and canning fish. 2,670,295, Feb. 23.
Askania-Werke A.-G., assignee: *See*—
Wuensch, Guido, Ziegler, and Caspar.
Wünsch, Guido, and Ziegler.
Ziegler, Horst.
Atlantic Refining Company, The, assignee: *See*—
Dunlap, Henry F., and Ramser.
Audubert, René, and C. Calmar, Paris, France. Preparation of depolarizers for electric cells. 2,670,395, Feb. 23.
Austin Motor Company Limited, The, assignee: *See*—
Ellcock, Arthur W.
Auto Specialties Manufacturing Company, assignee: *See*—
Lucker, Millard B.
Automatic Electric Laboratories Inc., assignee: *See*—
Stehlik, Rudolph F.
Auton, Claud C., Maiden, N. C., assignor, by mesne assignments, to Textile Trimming and Boarding Machine Company, Reading, Pa. Internal circular clipping and inspection device for hosiery. 2,669,765, Feb. 23.
Ayers, George W., Chicago, M. J. Geerts, Evanston, and R. E. Chandler, Algonquin, assignors to The Pure Oil Company, Chicago, Ill. Preventing the development of sourness in certain petroleum liquids during distillation. 2,670,319, Feb. 23.
Ayres, John E., assignor, by mesne assignments, to Oil Equipment Laboratories, Incorporated, Elizabeth, N. J. Multipurpose pressurized container valve. 2,670,106, Feb. 23.
Baader, Rudolf, Lubeck, Germany. Apparatus for cutting fish. 2,669,746, Feb. 23.
Babcock & Wilcox Company, The, assignee: *See*—
King, Walter C., and Leach.
Bacchieri, Albert J.: *See*—
Pennock, John C., and Bacchieri.
Bailey Meter Company, assignee: *See*—
Lewis, Henry P.
Baker, Arthur A., and J. H. Brown, assignors to Oldbury Electro-Chemical Company, Niagara Falls, N. Y. Production of alkyl phosphites. 2,670,368, Feb. 23.
Baker, James N., Baltimore County, Md., assignor to The Black and Decker Manufacturing Company. Electric scale. 2,670,195, Feb. 23.
Baldwin-Lima-Hamilton Corporation, assignee: *See*—
Shneider, Harold M.
Balfour, Walter, & Co., Inc., assignee: *See*—
Stevens, Herbert H., Jr.
Ballard, Clayton A.: *See*—
Hammond, William E., Lidford, and Ballard.
Ballew, Dallas D., Baltimore, Md. Doughnut filling machine. 2,669,947, Feb. 23.
Banthin, John F., Bridgeport, Conn. Sheet feeder for printing presses. 2,670,203, Feb. 23.
Barchoff, Abraham, assignor to Eastern Brass & Copper Co., Inc., New York, N. Y. Lifting and lowering tongs. 2,670,233, Feb. 23.
Barlet, Stewart J., and A. H. Whitmore, Los Angeles, Calif. Illuminated screw driver. 2,670,427, Feb. 23.

Barnes, Donald S., Rochester, Mich. Poster assembly jig. 2,669,775, Feb. 23.

Barnes, Norman F., Schenectady, N. Y., assignor to General Electric Company. Binocular optical system. 2,669,902, Feb. 23.

Barr, Charles, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Amphibious helicopter landing gear. 2,670,159, Feb. 23.

Barsky, George, New York, and S. Gottfried, Brooklyn, N. Y., said Gottfried assignor to said Barsky. Manufacture of maleic anhydride. 2,670,355, Feb. 23.

Bartholomew, George A., Pittsburgh, Pa. Nonclogging eaves structure. 2,669,950, Feb. 23.

Bassett, Howard D.: *See*—
Groff, Frazier, and Bassett.

Bassoff, Arthur B.: *See*—
Praeg, Walter S., and Bassoff.

Bates Manufacturing Company, assignee: *See*—
Wells, Richard D.

Bathgate, Carl O., Rumson, assignor to Bendix Aviation Corporation, Teterboro, N. J. Proximity ammeter. 2,670,458, Feb. 23.

Baum, Richard V., Akron, C. D. Morrill, Cuyahoga Falls, and I. B. Osofsky, assignors to Goodyear Aircraft Corporation, Akron, Ohio. Electric plug in decade resistance unit. 2,670,422, Feb. 23.

Baxter, James C., Minerva, and J. H. French, Beloit, Ohio. Shipping tube with integral end closure. 2,670,129, Feb. 23.

Bayles, Fred R., Waukesha, Wis., assignor, by mesne assignments, to Gar Wood Industries, Incorporated. Hydraulic pump. 2,669,933, Feb. 23.

Beard, Robert L., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Crepe fabric. 2,669,766, Feb. 23.

Beaver, David J., Richmond Heights, Mo., and G. L. Magoun, Nitro, W. Va., assignors to Monsanto Chemical Company, St. Louis, Mo. Compound selected from the group consisting of thio bis [3-methyl-6-(1,1,3,3-tetramethyl butyl) phenol] and thio bis(3-methyl-6-T-dodecyl phenol). 2,670,383, Feb. 23.

Bebinger, Charles N., New Philadelphia, Ohio, assignor to Joy Manufacturing Company. Apparatus for the loading of shaker conveyers. 2,670,073, Feb. 23.

Becker, Philip D., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastening device. 2,670,226, Feb. 23.

Beckman, Edward M., assignor to Chicago Roller Skate Company, Chicago, Ill. Roller structure. 2,670,242, Feb. 23.

Bell Aircraft Corporation, assignee: *See*—
Barr, Charles.

Bell, David B., Long Beach, Calif. Self-proportioning fluid feeding apparatus. 2,670,002, Feb. 23.

Bell, John, and F. H. Cannon, assignors to Muirhead & Company Limited, Beckenham, England. Electric motor. 2,670,448, Feb. 23.

Bell, Percy F., Walton-on-Thames, assignor of one-third to N. G. W. Loudon, and one-third to Sound City (Films) Limited, Shepperton, Middlesex, England. Hollow plaster building panels and making. 2,669,860, Feb. 23.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Felker, Jean H.
Lakatos, Emory.
McKay, Kenneth G.
Mitchell, Doren.
Mohr, Milton E.

Bellott, Emile M.: *See*—
Freeman, George A., Bellott, and Fraser.

Beloit Iron Works, assignee: *See*—
Goodwillie, John E., and Hornbostel.

Benander, George B., Oaklawn, R. I., assignor to General Electric Company. Lamp socket and harp assembly. 2,670,432, Feb. 23.

Bendix Aviation Corporation, assignee: *See*—
Bathgate, Carl O.
Deardorff, Clinton E., Elder, and Bifano.
MacIntyre, Charles H.
Peterson, Joel D.

Bennett, Harold L., South Bend, Ind., assignor, by mesne assignments, to Clayton Manufacturing Company, El Monte, Calif. Production dynamometer. 2,669,870, Feb. 23.

Bergeron, Alfred, Dallas, Tex. Piston packing ring. 2,670,255, Feb. 23.

Bergeron, Alfred, Dallas, Tex. Piston ring. 2,670,257, Feb. 23.

Bergeron, Alfred, Dallas, Tex. Piston ring construction. 2,670,258, Feb. 23.

Bergeron, Alfred, Chicopee Falls, Mass. Piston ring. 2,670,259, Feb. 23.

Bergmann, Ernst R., assignor to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyor. 2,670,071, Feb. 23.

Bergmann, Ernst R., and W. W. Sloane, assignors to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyer. 2,670,072, Feb. 23.

Bernard, Adam P., Rochester, N. Y. Press for forming pellets. 2,670,044, Feb. 23.

Berriman, Edward W., Tampa, Fla. Manufacturing cigars and preformed fillers therefor. 2,669,996, Feb. 23.

Bertin, Jean H., and F. G. Paris, assignors to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Paris, France. Aerodynamic valve. 2,670,011, Feb. 23.

Best, Cleafe A., Jackson, and L. E. Johnson, Parma, assignors to Sparks-Withington Company, Jackson, Mich. High and low volume horn. 2,670,467, Feb. 23.

Betts, Fred K., III, Harrisonburg, Va. Attachment for vibratory screens. 2,670,079, Feb. 23.

Bickford Bro's. Co., assignee: *See*—
Rouse, George H., and Laylon.

Biddison, John M., assignor to H. W. Moore, Dayton, Ohio. Armature winding machine. 2,670,145, Feb. 23.

Biermann, William A., and R. W. Sloane, Milwaukee, Wis., assignors to A P Controls Corporation. Liquid flow control. 2,670,005, Feb. 23.

Bifano, Natale J.: *See*—
Deardorff, Clinton E., Elder, and Bifano.

Binns, Jack N.: *See*—
Crawley, Arthur, Binns, and Dugle.

Bishop, Robert H., Champaign, Ill. Refrigerated open top compartment. 2,669,850, Feb. 23.

Blackburn, Andrew R., and R. E. Steele, Columbus, Ohio. Making ware by casting. 2,669,762, Feb. 23.

Black-Clawson Company, The, assignee: *See*—
Gibson, Albert G.

Black and Decker Manufacturing Company, The, assignee: *See*—
Baker, James N.

Blatz, Albert V., Thiensville, assignor to A. O. Smith Corporation, Milwaukee, Wis. Carton and crate lifting attachment. 2,670,095, Feb. 23.

Bloch, Rudolf, I. Schnerb, and D. Kaplan, Jerusalem, Israel. Manipulation and storage of bromine. 2,670,276, Feb. 23.

Bloomfield, Benjamin, and D. S. Whitney, assignors to The Fellows Gear Shaper Company, Springfield, Vt. Generating face and tapered gears with bowed formation. 2,669,904, Feb. 23.

Bloxsom, Eugene S., assignor to Preventive Maintenance Company, Bridgeport, Conn. Air brake system compressor. 2,670,130, Feb. 23.

Blum, Eduard: *See*—
Leuthold, Eugene, and Blum.

Bobkowicz, Emilian, Westmount, Quebec, Canada. Automatic razor. 2,669,776, Feb. 23.

Bone, Herbert L., Forest Hills, Pa., assignor to Westinghouse Air Brake Company. Railway switch lever latch stand. 2,669,858, Feb. 23.

Bonnefoy, Emile: *See*—
Van de Walle, Edmond and C., and Bonnefoy.

Bossard, Werner, Riehen, near Basel, assignor to J. R. Geigy A. G., Basel, Switzerland. Copperable disazo dyestuffs. 2,670,346, Feb. 23.

Bowles, Henry M.: *See*—
Gleason, Augustus W., and Bowles.

Bowman, George L., assignee: *See*—
Mueller, Herman H.

Bowman, John L., assignee: *See*—
Mueller, Herman H.

Bradburn, George W., Silver Spring, Md. Effusing device. 2,670,236, Feb. 23.

Brandt Automatic Cashier Company, assignee: *See*—
Buchholz, Arnold R.
Quirk, Earl W., and Buchholz.

Brazee, Henry S.: *See*—
Harris, Wilbur T., Pegram, Brazee, and Hummel.

Bredeson, Olaf A., Waynesboro, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Heat-treatment of N-alkyl polyamides. 2,670,267, Feb. 23.

Brewer, Robert F., Quakertown, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y. Forming articles. 2,669,770, Feb. 23.

Brewster, Oswald C., Litchfield, Conn. Pneumatic bore gauge. 2,669,864, Feb. 23.

Brewster, Oswald C., Litchfield, Conn. Rolling-ball racing game. 2,670,206, Feb. 23.

Breyer, Frank G., Wilton, Conn., and A. Delruelle, deceased, Trooz, Belgium; M. C. H. V. Delruelle, lawful heir of said A. Delruelle, assignors to Singmaster & Breyer. High temperature vaporization apparatus. 2,670,196, Feb. 23.

Brice, Sam, assignor of one-half to T. J. McMahon, Spokane, Wash. Electric motor. 2,670,449, Feb. 23.

Bridgewater Machine Tool Co., assignee: *See*—
Buechler, Frank A.

Briggs Manufacturing Company, assignee: *See*—
Doty, Clifford B., and Vigmostad.

Brill, William E.: *See*—
Hovde, Arne J., and Brill.

British Celanese Limited assignee: *See*—
Allan, John, and Thomas.

Broadway, Samuel G., Columbia, Tenn. Safety device for hydraulic brakes. 2,669,843, Feb. 23.

Brock, Harold L., Detroit, and J. R. Stevenson, Ann Arbor, assignors to Ford Motor Company, Dearborn, Mich. Transmission. 2,669,880, Feb. 23.

Brock, John E., Fairmont, and D. Zanotti, Morgantown, W. Va., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Lamp holder. 2,670,115, Feb. 23.

Bronson, George E.: *See*—
Dahlstrom, Roy, and Bronson.

Brown, Edward K., assignee: *See*—
Lentz, David M.

Brown, James H.: *See*—
Baker, Arthur A., and Brown.

Brown, W. Hensel, assignee: *See*—
Mueller, Herman H.

Brownlee, Robert L., Mokena, Ill. Cutting unit for power weed cutters. 2,669,827, Feb. 23.

Bruce, Anthony R. N., Portage La Prairie, Manitoba, Canada. Parking meter. 2,670,066, Feb. 23.

Buchholz, Arnold R.: *See*—
Quirk, Earl W., and Buchholz.

Buchholz, Arnold R., assignor to Brandt Automatic Cashier Company, Watertown, Wis. Coin-counting machine. 2,669,998, Feb. 23.

Buchmiller, Earl P., and H. Cohen, Denver, Colo. Paperboard serving tray. 2,670,124, Feb. 23.

Buechler, Frank A., Tallmadge, assignor, by mesne assignments, to Bridgewater Machine Tool Co., Akron, Ohio. Contour milling machine. 2,669,908, Feb. 23.

Buell, Maxine G., Ann Arbor, Mich. Means for drilling language patterns. 2,669,789, Feb. 23.

Bullock, Joe C., Des Moines, Iowa. Mechanical lamp shade. 2,670,431, Feb. 23.

Bungay, George W., assignor to Electrographic Corporation, New York, N. Y. Producing curved electrotypes. 2,670,326, Feb. 23.

Burge, James S., Anderson, H. J. McKee, Middletown, and W. M. Rider, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Armature coil lead staker. 2,669,771, Feb. 23.

Burkholder, John C., Toronto, Ontario, Canada. Timer. 2,670,039, Feb. 23.

Burlington Mills Corporation, assignee: *See*—
Holmes, Mark N.

Bystrom, Harry O., Modesto, Calif. Baby crib. 2,669,730, Feb. 23.

C. D. Patents Limited, assignee: *See*—
Norman, William S., and Sawyer.

C. V. A. Jigs Moulds & Tools Limited, assignee: *See*—
Fishwick, Robert.

Cain, Donald G., C. S. Goddin, Jr., and N. M. Caruthers, assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Regenerating carboxylic acids from their salts. 2,670,366, Feb. 23.

Calfee, John D.: *See*—
Miller, Charles B., and Calfee.

California Research Corporation, assignee: *See*—
Filatoff-Rocq, Pierre, and Stayner.
Gleason, Augustus W., and Bowles.
Halamka, Charles J., and La Porte.
Hunter, Melvin V., and Segesser.
Lewis, Allen H., and Stayner.
Toland, William G., Jr.

Calmar, Coriolan: *See*—
Audubert, René, and Calmar.

Calumet & Hecla, Inc., assignee: *See*—
Hill, Walter P.

Canada Cycle and Motor Company Limited, assignee: *See*—
Shakesby, Leonard, and Sainsbury.

Canadian Breweries Limited, assignee: *See*—
Ziegler, John A.

Canham, George E., West Orange, assignor to Ralph C. Coxhead Corp., Newark, N. J. Line-forming mechanism for typewriting machines. 2,670,067, Feb. 23.

Cannon, Frank H.: *See*—
Bell, John, and Cannon.

Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus and method for motion-picture color photography. 2,670,312, Feb. 23.

Carbiener, Harvey D., and D. L. Rutter, assignors to Excel Corporation, Elkhart, Ind. Kickout sash. 2,670,062, Feb. 23.

Carborundum Company, The, assignee: *See*—
Nicholson, Kenneth C.

Carlson, Edwin G., Caledonia, and A. H. Eppler, Milwaukee, Wis., said Carlson assignor to said Eppler. Method and apparatus for graining lithographic plates. 2,669,810, Feb. 23

Carpenter, Victor H., Boston, Mass. Teeth protector. 2,669,988, Feb. 23.

Cartlidge, Frank, assignor to Goodman Manufacturing Company, Chicago, Ill. Drum mounted cutter bit and breaker for mining machines. 2,670,190, Feb. 23.

Caruthers, Neal M.: *See*—
Cain, Donald G., Goddin, and Caruthers

Case, J. I., Company, assignee: *See*—
Dwyer, William J.

Caspar, Heinz: *See*—
Wuensch, Guido, Ziegler, and Caspar.

Catlin, Robert T., Stratford, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Fire control for powder actuated tools. 2,669,716, Feb. 23.

Celanese Corporation of America, assignee: *See*—
Sutherland, Frederick F.

Cerone, Pasquale L., Dewitt, N. Y. Ribbon curler. 2,669,913, Feb. 23.

Chadbourne, Joseph H., Danielson, Conn., assignor to The Danielson Manufacturing Company. Manufacture of composite wire and rope. 2,669,754, Feb. 23.

Champayne, Roy J., Rockford, Ill. Rubbing machine. 2,669,812, Feb. 23.

Chandler, Robert E.: *See*—
Ayers, George W., Geerts, and Chandler.

Charles, Ernest, assignor to Societe des Produits Chimiques de Clamecy, Clamecy, France. Method and apparatus for the continuous production of carbon disulphide. 2,670,277, Feb. 23.

Chase-Shawmut Company, The, assignee: *See*—
Kozacka, Frederick J.

Cherry, William H., Princeton, N. J., assignor to Radio Corporation of America. Optical projection and registration system. 2,669,900, Feb. 23.

Chicago Roller Skate Company, assignee: *See*—
Beckman, Edward M.

Chicopee Manufacturing Corporation, assignee: *See*—
Lenk, Frederick R., Jr.
Rider, Don K.

Chirelx, Henri, Paris, France, assignor to Societe Francaise Radio-Electrique. Multichannel radioelectric communication system. 2,670,404, Feb. 23.

Christie, Cleve F., assignor of ten per cent to D. A. Harrison, Knoxville, Tenn. Antifouling anchor. 2,669,962, Feb. 23.

Christie, Cleve F., assignor of ten per cent to D. A. Harrison, Knoxville, Tenn. Antifouling anchor. 2,669,963, Feb. 23.

Christie, Robert C., Palm Beach, Fla. Fuel tank for helicopters. 2,670,049, Feb. 23.

Church, Walter L., Houston, Tex. Reversing tool. 2,670,181, Feb. 23.

Clark, Dayton P., Jr., Somerville, N. J., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Cutting oils. 2,670,330, Feb. 23.

Clark, John R., Dallas, Tex., J. W. Coursen, Merrick, N. Y., and C. G. Jordan, New Haven, Conn., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Catapult hook mechanism. 2,670,156, Feb. 23.

Clayton Manufacturing Company, assignee: *See*—
Bennett, Harold L.

Clevenger, Walter C., assignee: *See*—
De Wolf, Allan.

Clough, Robert S., Wilmington, Del. Retractable jaw wrench having parallel resilient jaws. 2,669,896, Feb. 23.

Clutter, Elmer S., Canonsburg, Pa. Wall building unit. 2,669,861, Feb. 23.

Coates, J. Edwin, assignor to Alta Engineering Company, Santa Monica, Calif. Rotary cutting tool. 2,670,018, Feb. 23.

Coffing, Frederick W., assignor to Coffing Hoist Company, Danville, Ill. Hoist. 2,670,176, Feb. 23.

Coffing Hoist Company, assignee: *See*—
Coffing, Frederick W.

Cohen, Harold: *See*—
Buchmiller, Earl P., and Cohen.

Cohen, Herman, Brookline, Mass., assignor of one-half to Imperial Talc Company, Inc., Hoboken, N. J. Improving plant yields. 2,669,804, Feb. 23.

Cole, Joseph, Whiting, Ind., and J. Krawetz, Evanston, Ill. Apparatus for testing oils for gum, varnish, sludge, and corrosion. 2,669,865, Feb. 23.

Colpo, Jesse, Orchard Park, N. Y. Tractor trailer connection device. 2,670,220, Feb. 23.

Columbia-Southern Chemical Corporation, assignee: *See*—
Rahn, Henry W.

Columbus Plastic Products, Inc., assignee: *See*—
Roop, Nathan W.

Comeaux, George T.: *See*—
Hutchins, James E., Jr., and Comeaux.

Connolly, John E.: *See*—
Smith, Fred R. and Connolly.

Container Corporation of America, assignee: *See*—
Davidson, George W., Kupfer, and Kilmer.

Cooper, Victor J., Writtle, assignor to Marconi's Wireless Telegraph Company Limited, London, England. Thermionic amplifier. 2,670,409, Feb. 23.

Cordier, Lucien, Arnouville les Gonesse, France. Reed trimmer. 2,669,778, Feb. 23.

Corning Glass Works, assignee: *See*—
Goodrich, Levi F.

Corpeny, Elbert J., assignor of one-half to C. J. Klein, Kansas City, Mo. Basement clothesline hanger. 2,670,169, Feb. 23.

Corum, Charles A.: *See*—
Gordon, Carroll M., and Corum.

Cottingham, Morrison, Shreveport, La., assignor to W. R. Stephens Investment Company, Inc., Little Rock, Ark. Doughnut making machine. 2,669,949, Feb. 23.

Coughlan, Standly T., Dearborn, assignor to King Paint Roller Inc., Detroit, Mich. Paint roller. 2,669,742, Feb. 23.

Coughlan, Standly T., Dearborn, assignor to King Paint Roller Inc., Detroit, Mich. Paint roller. 2,669,743, Feb. 23.

Coughlan, Standly T., assignor to King Paint Roller Inc., Detroit, Mich. Paint roller loading device. 2,669,965, Feb. 23.

Coursen, John W.: *See*—
Clark, John R., Coursen, and Jordan.

Coutant, Edward R., Stratford, Conn., assignor to General Electric Company. Roll type mercury switch. 2,670,421, Feb. 23.

Covington, James D., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Expansible grounding electrode. 2,670,397, Feb. 23.

Cowan, John C.: *See*—
Croston, Clarence B., Teeter, and Cowan.

Coxhead, Ralph C., Corp., assignee: *See*—
Canham, George E.

Crake, Wilfred S., Kilgore, Tex., assignor to Shell Development Company, Emeryville, Calif. Sucker rod sand trap. 2,669,940, Feb. 23.

Crane Packing Company, assignee: *See*—
McElvenny, William H.

Craver, William J., Fayetteville, Ohio. Single wheel garden and truck tractor drive. 2,670,052, Feb. 23.

Crawley, Arthur, J. N. Binns, and T. E. Dugle, Cincinnati, Ohio; said Binns and said Dugle assignor to said Crawley. Automatic discharge apparatus for book rounding machines and the like. 2,670,090, Feb. 23.

Crawley, James B., Campbellsville, Ky. Apparatus for electronically locating nerve irritations. 2,669,986, Feb. 23.

Creighton, Charles, assignee: *See*—
Thompson, Tom H.

Cross, James H., Lewis, Kans. Cylinder with variable stop mechanism. 2,669,972, Feb. 23.

Cross, Willis J., Jr.: *See*—
King, Alfred S., and Cross.

Croston, Clarence B., H. M. Teeter, and J. C. Cowan, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Polymerization process using hydrogen fluoride. 2,670,361, Feb. 23.

Cuming, William R.: *See*—
Emerson, Cherry L., Jr., and Cuming.

Cunningham, Joseph A., assignor to Perrault Bros., Tulsa, Okla. Coating shoe. 2,670,240, Feb. 23.

Curtiss-Wright Corporation, assignee: *See*—
Anderson, James N., and Viall.
Enos, Louis H.

Curutchet, Pedro D., Loberia, Argentina. Grip for lever pivoted instruments. 2,669,992, Feb. 23.

Curutchet, Pedro D., Loberia, Argentina. Bicapsular grip for pivoted surgical instruments. 2,669,993, Feb. 23.

Curutchet, Pedro D., Buenos Aires, Argentina. Tetradigital grip for long lever pivoted surgical instruments. 2,669,991, Feb. 23.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Basically substituted derivatives of N-aralkylcycloalkylalkanamides and their salts. 2,670,349, Feb. 23.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Basic alkyl substitution products of N-indanyl and N-tetrahydronaphthyl-monocarbocyclylamides and their salts. 2,670,371, Feb. 23.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. N-dialkylaminoalkyl-N-cycloalkylcycloalkylalkanamides. 2,670,372, Feb. 23.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Halogenated N-aryl-N-dialkylaminoalkylarylcarboxamides. 2,670,373, Feb. 23.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. N-dialkylaminoalkyl aminobenzanilides and N-aralkylaminobenzamides and their salts. 2,670,374, Feb. 23.

Cuyler, David D., Mamaroneck, N. Y. Hand soap flaking and dispensing apparatus. 2,670,019, Feb. 23.

Dahl, Edward T., Warwick Neck, and O. Kneisel, Cranston, R. I., assignors to Hammel-Dahl Company. Water-steam mixing valve. 2,670,003, Feb. 23.

Dahlstrom, Roy, Westfield, and G. E. Bronson, Matawan, N. J., assignors to National Lead Company, New York, N. Y. Production of a fire retardant solution. 2,670,297, Feb. 23.

Dale, Eldon L., Long Beach, Calif. Target moving and control mechanism. 2,670,207, Feb. 23.

D'Alelio, Gaetano F., Pittsburgh, Pa., assignor to Koppers Company, Inc. Anion-exchange resins from aminated aryl acetylene. 2,670,334, Feb. 23.

D'Alelio, Gaetano F., Pittsburgh, Pa., assignor to Koppers Company, Inc., Anion-exchange resins from an aminated alkylene aryl acetylene. 2,670,335, Feb. 23.

Danielson Manufacturing Company, The, assignee: *See*—
Chadbourne, Joseph H.

Dann, Morris: *See*—
Heisterkamp, Charles A., Dann, and Dura.

Darby, Paul F., Fairfield, and T. R. Kinraide, Bridgeport, Conn., and R. A. A. Hentschel, Ilion, and J. Hammond, Sauquoit, N. Y., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Sabot projectile. 2,669,930, Feb. 23.

Dare Products, Incorporated, assignee: *See*—
Wilson, Robert M.

Darner, Frederic M., Shaker Heights, Ohio, and W. S. Schaefer, East Gadsden, Ala., assignors to Republic Steel Corporation, Cleveland, Ohio. Automatic seam following device for welding apparatus. 2,670,423, Feb. 23.

Darney, Harold E., Bloomfield, assignor to Hanovia Chemical and Mfg. Company, Newark, N. J. Apparatus for irradiating liquids. 2,670,439, Feb. 23.

Da Valle, Bruno, San Jose, Calif. Implement supporting structure. 2,669,920, Feb. 23.

Davidson, George W., Whittier, A. M. Kupfer, San Gabriel, and C. B. Kilmer, San Marino, Calif., assignors to Container Corporation of America, Chicago, Ill. Corner pad. 2,670,122, Feb. 23.

Davis, Milton W., Jr., Wilmington, Del., assignor to the United States of America as represented by the United States Atomic Energy Commission. Production of fluorinated diketones. 2,670,353, Feb. 23.

Davis, Nelson L., Chicago, Ill. Method and apparatus for separating and drying comminuted solids. 2,670,078, Feb. 23.

Dawe, Albert J., Milwaukee, L. H. Matthias, Fox Point, and W. A. De Smidt, Whitefish Bay, assignors to Allen-Bradley Company, Milwaukee, Wis. Autotransformer starter. 2,670,411, Feb. 23.

Day, Dewey D., assignors to The Murray Company of Texas, Inc., Dallas, Tex. Lint cleaner. 2,669,755, Feb. 23.

Dearborn Motors Corporation, assignee: *See*—
Erwin, Robert L.
Sawyer, Frederick D.
Schaich, Wilbur A.

Deardorff, Clinton E., Sepulveda, W. E. Elder, Sherman Oaks, and N. J. Bifano, Los Angeles, assignors to Bendix Aviation Corporation, North Hollywood, Calif. Combination master cylinder and power brake valve. 2,670,004, Feb. 23.

Decat, Jules, Montrouge, France. Shoveling apparatus. 2,670,070, Feb. 23.

Del Mar, Bruce E., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Cabin pressure regulator. 2,669,921, Feb. 23.

Del Mar, Bruce E., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Cabin pressure control instrument. 2,669,922, Feb. 23.

De Long, Chancey E.: *See*—
McCurdy, John L., and De Long.

Delruelle, Andre: *See*—
Breyer, Frank G., and Delruelle.

Delruelle, Marthe C. H. V., heir: *See*—
Breyer, Frank G., and Delruelle.

Derby Sealers, Incorporated, assignee: *See*—
Krueger, Alfred P.
Krueger, Alfred P., and Erhardt.

De Smidt, Woodrow A.: *See*—
Dawe, Albert J., Matthias and De Smidt.

Des Rosiers, John B., Providence, R. I. Emergency wheel for pneumatic tires. 2,670,246, Feb. 23.

Detarnato, Angelo J., Madison, N. J. Device for closing incisions in fowls or the like. 2,669,747, Feb. 23.

Detroit Harvester Company, assignee: *See*—
Preble, Norman H., and Goss.

De Vogt, Hans J., Solingen-Ohligs, Germany. Welding clamp. 2,669,957, Feb. 23.

De Wolf, Allan, Ferndale, assignor to W. C. Clevenger, Royal Oak, Mich. Jack leg pulley. 2,670,178, Feb. 23.

Dick, Wade W., Shreveport, La. Method and apparatus for vaporizing and distributing hydrocarbon fuels. 2,669,847, Feb. 23.

Dietrich, Martin J., Kamloops, British Columbia, Canada. Wheeled figure toy track and balance means. 2,669,800, Feb. 23.

Diggs, Everett, Winchester, Ind. Combined sunglasses and face protector. 2,669,717, Feb. 23.

Distillers Company Limited, The, assignee: *See*—
Hadley, David J.
Hadley, David J., Heap, and Nichol.
Hadley, David J., and Nichol.

Ditch, Franklin D., assignor to The Electric Sprayit Company, Sheboygan, Wis. Dual purpose spray gun. 2,670,239, Feb. 23.

Doane, Douglas V.: *See*—
Rossheim, David B., Doane, and Siemer.

Dobbins, Walter J., 3rd, Little Falls, N. J., assignor to American Can Company, New York, N. Y. Can filling machine. 2,670,114, Feb. 23.

Dobkin, William J., Jackson Heights, N. Y. Apparatus for lubricating conveyer belts. 2,670,069, Feb. 23.

Dodin, Lucien J. E. A., Canet-Plage, France. Telemetric focusing device. 2,669,916, Feb. 23.

Dominguez, Richard A., Richmond, Calif. Bottle holder. 2,670,165, Feb. 23.

Doms, Benedict, Deurne-Sud, Belgium. Cabinet for loudspeakers and the like. 2,670,053, Feb. 23.

Doran, Elmer E., Merced, Calif. Tire cleat protector. 2,670,023, Feb. 23.

Dorman, Douglas P.: *See*—
Dorman, Harley A., and D. P.

Dorman, Harley A., Detroit, Mich., and D. P. Dorman, Los Angeles, Calif. Supercharging air induction filter device for automotive engines. 2,670,055, Feb. 23.

Dormeyer Corporation, assignee: *See*—
Masheris, Fred A., and Tanko.

Dorr Company, The, assignee: *See*—
Scott, Charles H.

Doty, Clifford B., and T. Vigmostad, assignors to Briggs Manufacturing Company, Detroit, Mich. Adjustable vehicle seat. 2,670,028, Feb. 23.

Douglas Aircraft Company, Inc., assignee: *See*—
Del Mar, Bruce E.
Ungar, Gustav A.

Douglas, Harry J., assignor to Pennsylvania Crusher Company, Philadelphia, Pa. Lifting shelf. 2,670,140, Feb. 23.

Dow Chemical Company, The, assignee: *See*—
Edmunds, Alvin M.
Hartweg, Dale G.
McCurdy, John L., and De Long.
Roth, Harold H.
Stanton, George W., and Spence.

Downey, Paul M., and R. O. Zerbe, Nitro, W. Va., assignors to Monsanto Chemical Company, St. Louis, Mo. Preservatives. 2,670,382, Feb. 23.

Doyle, Emmett L., trustee: *See*—
Rouse, George H., and Laylon.

Dragon, Peter F., Oakland, Calif. Pipe coupling. 2,670,222, Feb. 23.

Drew, Harry A., West New York, N. J., assignor to Victor Industries Corporation, Brooklyn, N. Y. Cap selecting and feeding means. 2,670,077, Feb. 23.

Drum, Harry S., Abington, Hugo F., Liedtke, Philadelphia, and J. Schmitz, Jr., Crestmount Farms, assignors to Smith, Drum & Company, Philadelphia, Pa. Machine for drying hosiery. 2,669,788, Feb. 23.

Dugle, Thomas E.: *See*—
Crawley, Arthur, Binns, and Dugle.

Dullaghan, Edward J., Boise, Idaho. Wire pulling jack. 2,670,016, Feb. 23.

Dunbar, Allen S., Los Altos, Calif. Helical slot scanner. 2,670,436, Feb. 23.

Duncan, Charles R., Detroit, assignor to American Forging & Socket Company, Pontiac, Mich. Brake lever assembly. 2,669,883, Feb. 23.

Duncan, James E., Brackenridge, and J. J. Smith, Tarentum, Pa., assignors to Pittsburgh Plate Glass Company. Glass composition. 2,669,808, Feb. 23.

Dunlap, Henry F., Dallas, Tex., and J. H. Ramser, Chester, assignors to The Atlantic Refining Company, Philadelphia, Pa. Pressure measuring device. 2,669,877, Feb. 23.

Dunlop Rubber Company Limited, assignee: *See*—
Seddon, Robert M.

Dunn, Robert G., Dayton, Ohio, and R. F. Heiser, Valparaiso, Fla. Alcohol injection system for deicing aircraft fuel filters and strainers. 2,670,082, Feb. 23.

Dunton, Stanley N., City Island, assignor to Thomas C. Wilson, Inc., Long Island City, N. Y. Safety bolt construction. 2,670,099, Feb. 23.

Du Pont, E. I. de Nemours and Company, assignee: *See*—
Bredeson, Olaf A.
Gottlieb, Hans B., and Park.
Gregory, Walter A., and Hermann.
Johnson, Charles R.
Nebel, Richard W.
Nutting, Robert D.
Olson, Carl M., and Tully.
Sigler, George.
Verbanc, John J.

Dura, John P.: *See*—
Heisterkamp, Charles A., Dann, and Dura.

Dwyer, William J., Battle Creek, Mich., assignor to J. I. Case Company, Racine, Wis. Drive for corn pickers. 2,669,824, Feb. 23.

Eastern Brass & Copper Co., Inc., assignee: *See*—
Barchoff, Abraham.

Eastern Metals Research Co., Inc., assignee: *See*—
Glaser, Leo B., and Votta.

Eastman Kodak Company, assignee: *See*—
Beard, Robert L.
Capstaff, John G.
Folwell, John H.
Macleish, Kenneth G.
Malm, Carl J., and Williams.
Malone, Harold L., and Marvin.
Minsk, Louis M., Van Deusen, and Robertson.
Smith, Carl F.

Easy Washing Machine Corporation, assignee: *See*—
Rauscher, Elbridge F.
Williams, Earl C.

Eaton Manufacturing Company, assignee: *See*—
Oldberg, Sidney, and Turkish.

Eckert, John P., Jr., Gladwyne, and J. W. Mauchly, Ambler, assignors to Eckert-Mauchly Computer Corporation, Philadelphia, Pa. Acoustic delay device. 2,670,459, Feb. 23.

Eckert-Mauchly Computer Corporation, assignee: *See*—
Eckert, John P., Jr., and Mauchly.

Eckstein, George R., Fairfield, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Assembly press. 2,669,898, Feb. 23.

Edmunds, Alvin M., assignor to The Dow Chemical Company, Midland, Mich. Self-hardening plastic compositions and solid porous bodies prepared therefrom. 2,670,338, Feb. 23.

Edmunds, Alvin M., assignor to The Dow Chemical Company, Midland, Mich. Self-hardening plastic compositions and porous bodies prepared therefrom. 2,670,339, Feb. 23.

Edwards, Joe E., assignee: *See*—
Parks, Asbury S.

Eisberg, Jack J., Kansas City, Mo. Hoist and power unit therefor. 2,670,086, Feb. 23.

Ekman, Lincoln G.: *See*—
Kliever, Waldo H., and Ekman.

Elder, William E.: *See*—
Deardorff, Clinton E., Elder, and Bifano.

Electric Boat Company, assignee: *See*—
Sherman, Kenneth C.

Electricooker, Inc., assignee: *See*—
Emerson, Cherry L., Jr., and Cuming.

Electric Sprayit Company, The, assignee: *See*—
Ditch, Franklin D.

Electrographic Corporation, assignee: *See*—
Bungay, George W.

Electro-Hydraulics Limited, assignee: *See*—
Neilson, Christopher B. V., and Hoare.

Elkins, Lloyd E., R. P. Vincent and H. Schaefer, assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Apparatus for pumping wells. 2,669,930, Feb. 23.

Ellcock, Arthur W., Barnt Green, near Birmingham, assignor to The Austin Motor Company Limited, Northfield, Birmingham, England. Hydromechanical braking system for road vehicles. 2,670,057, Feb. 23.

Ellingson, La Verne O., Monrovia, Calif. Automobile boat loading and carrying attachment. 2,670,113, Feb. 23.

Elliott, George, Rochester, N. Y., assignor to Stromberg-Carlson Company. Telecommunication system. 2,670,406, Feb. 23.

Ellis, Charles H., Decatur, Ga. Liquid controlling attachment for wet rollers. 2,669,927, Feb. 23.

Elm, Laurence G.: *See*—
Skogstad, George, Elm, and Fuller.

Emerson, Cherry L., Jr., Newton Highlands, and W. R. Cuming, Boston, assignors to Electricooker, Inc., Newburyport, Mass. Roasting nuts and the like. 2,670,292, Feb. 23.

Emhart Manufacturing Company, assignee: *See*—
Rowe, George E.

Enos, Louis H., Montclair, N. J., assignor to Curtiss-Wright Corporation. Multiblade propeller and cowling therefor. 2,670,050, Feb. 23.

Eppler, Arthur H.: *See*—
Carlson, Edwin G., and Eppler.

Erdmenger, Rüdolf, Bergisch-Gladbach, assignor to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany. Mixing and kneading machine. 2,670,188, Feb. 23.

Erhardt, Oscar P.: *See*—
Krueger, Alfred P., and Erhardt.

Erwin, Robert L., Royal Oak, assignor to Dearborn Motors Corporation, Birmingham, Mich. Planter valve. 2,669,951, Feb. 23.

Eskilstuna Jernmanufaktur Aktiebolag, assignee: *See*—
Rydberg, Johan O.

Evans, Arthur E., New York, N. Y. Washcloth. 2,669,737, Feb. 23.

Evans, Harold D., assignor of one-half to H. L. Evans, Kansas City, Mo. Hatrack. 2,670,084, Feb. 23.

Evans, Helen L., assignee: *See*—
Evans, Harold D.

Excel Corporation, assignee: *See*—
Carbiener, Harvey D., and Rutter.

Fabre, Maurice L.: *See*—
Marchal, Raymond H., and Fabre.

Fairbanks, Morse & Co., assignee: *See*—
Schowalter, Clarence H., and Foreman.

Falkner, Francis O., Headland, Ala. Digging and windrowing root harvester. 2,669,820, Feb. 23.

Fand, Theodore I., White Plains, and C. F. Lutomski, assignors to Nepera Chemical Co. Inc., Yonkers, N. Y. Trichloroacetylpyridines. 2,670,352, Feb. 23.

Farbenfabriken Bayer Aktiengesellschaft, assignee: *See*—
Erdmenger, Rüdolf.
Weinand, Klaus.

Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Bruning, assignee: *See*—
Heyna, Johannes, and Schumacher.

Fay, Allyn C., East Hempstead, N. Y. Golf club direction indicator attachment. 2,670,209, Feb. 23.

Fedri, Albeno J., Weston, Pa. Variable transmission. 2,669,885, Feb. 23.

Felker, Jean H., Livingston, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Regenerative transistor amplifier. 2,670,445, Feb. 23.

Fellows Gear Shaper Company, The, assignee: *See*—
Bloomfield, Benjamin, and Whitney.
Miller, Edward W.
Praeg, Walter S., and Bassoff.

Fenske, Harry D., Dearborn, Mich., assignor to National Steel Corporation. Floor structure. 2,670,060, Feb. 23.

Ferro Corporation assignee: *See*—
Johnson, Gordon H., and Wuellner.

Fetterly, Lloyd C., Seattle, Wash., assignor to Shell Development Company, San Francisco, Calif. Complex-forming crystallization process. 2,670,343, Feb. 23.

Fetterly, Lloyd C., El Cerrito, assignor to Shell Development Company, Emeryville, Calif. Separation of hydrocarbons with thiourea. 2,670,344, Feb. 23.

Field, Braham R., assignor to Alkaline Batteries, Limited, Redditch, England. Venting and pressure release arrangement of electric accumulators. 2,670,396, Feb. 23.

Fiest, Max H., Toutle, Wash. Tensioning means for power-operated chain saws. 2,670,017, Feb. 23.

Filatoff-Rocq, Pierre, San Francisco, and R. D. Stayner, Albany, assignors to California Research Corporation, San Francisco, Calif. Phosphonamic acids. 2,670,369, Feb. 23.

Findlay, W. R., assignee: *See*—
Harper, Arthur R.

Fino, Alexander F., and F. L. Plummer, assignors to Hammond Iron Works, Warren, Pa. Storage tank. 2,670,100, Feb. 23.

Fisher, J. N., assignee: *See*—
Hower, Russell E., and Kuntz.

Fishman, Norman: *See*—
Graham, Robert P., Neel, and Fishman.

Fishwick, Robert, London, assignor to C. V. A. Jigs Moulds & Tools Limited, Hove, Sussex, England. Chuck. 2,670,214, Feb. 23.

Fishwick, Robert, London, assignor to C. V. A. Jigs Moulds & Tools Limited, Hove, Sussex, England. Chuck. 2,670,215, Feb. 23.

Flesner, Eugene E., and J. Lynch, assignor to Jewel Tea Company, Inc., Chicago, Ill. Conveyer counter. 2,670,135, Feb. 23.

Floral Fence, Inc., assignee: *See*—
Oberwerger, William.

Folwell, John H., assignor to Eastman Kodak Company, Rochester, N. Y. Pressure sensitive adhesives containing graphite. 2,670,306, Feb. 23.

Food Machinery and Chemical Corporation, assignee: *See*—
Stilwell, Glenn E.

Forbes, Willis A., assignee: *See*—
Armitage, Bronson W.

Ford, Harold F., assignor to "T. I. M." (Ticket-Issue Machines) Limited, Cirencester, England. Machine for printing and issuing tickets, labels, and the like. 2,669,926, Feb. 23.

Ford Motor Company, assignee: *See*—
Brock, Harold L., and Stevenson.
Link, George C

Foreman, Matthew L.: *See*—
Schowalter, Clarence H., and Foreman.

Forwald, Haakon, Vaihalla, assignor to Alimanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Arrangement in air blast circuit breakers. 2,670,420, Feb. 23.

Foster, Edwin E., assignor to Majik-Ironers, Inc., Austin, Tex. Ironing table with fabric support. 2,669,793, Feb. 23.

Foster Wheeler Corporation, assignee: *See*—
Frisch, Martin.

Frank, Joseph J., Union, N. J. Sealing sausage casings and product thereof. 2,670,294, Feb. 23.

Franke & Heidecke, Fabrik Photographischer Prazisions Apparate, assignee: *See*—
Knauf, Wilhelm.

Frankenstein, William P., Cincinnati, Ohio. Carton. 2,670,123, Feb. 23.

Frankenstein, William P., Cincinnati, Ohio. Carton. 2,670,125, Feb. 23.

Frankenstein, William P., Cincinnati, Ohio. Carton. 2,670,126, Feb. 23.

Fraser, Hugh D.: *See*—
Freeman, George A., Bellott, and Fraser.

Freeman, George A., East Orange, and E. A. Jenkins, Fairlawn, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. High-pressure gaseous discharge lamp. 2,670,399, Feb. 23.

Freeman, George A., East Orange, E. M. Bellott, Bloomfield, and H. D. Fraser, Verona, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Short arc high-pressure vapor discharge lamp. 2,670,451, Feb. 23.

Freeman, Howard G., and G. T. Gurney, assignors to Rockwood Sprinkler Company, Worcester, Mass. Liquid proportioning apparatus. 2,670,104, Feb. 23.

Freeman, Leon T., New Milford, Pa. Rotary plow. 2,669,919, Feb. 23.

Freeman, Michael W., Detroit, Mich. Quenching steel. 2,670,310, Feb. 23.

Feimann, Frank, C. Hart, and A. L. Knox, Sr., assignors to The Magnavox Company, Fort Wayne, Ind. Record changer. 2,670,211, Feb. 23.

French, John H.: *See*—
Baxter, James C., and French.

Freyssinet, Eugène, Neuilly-sur-Seine, France. Dam. 2,669,845, Feb. 23.

Frisch, Martin, assignor to Foster Wheeler Corporation, New York, N. Y. Vapor generator. 2,669,975, Feb. 23.

Frisch, Martin, assignor to Foster Wheeler Corporation, New York, N. Y. Apparatus for generating vapor. 2,669,976, Feb. 23.

Frokjaer-Jensen, Axel, Charlottenlund, and A. H. M. Andreasen, Gentofte, Denmark. Manufacturing a cellular material. 2,670,298, Feb. 23.

Frokjaer-Jensen, Axel, Charlottenlund, and A. H. M. Andreasen, Gentofte, Denmark. Manufacturing a cellular material. 2,670,299, Feb. 23.

Frye, Clifton G., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Converting oxygenated organic chemicals in hydrocarbon synthesis. 2,670,378, Feb. 23.

Fujii, Minoru, Washington, D. C. Automatic refrigerating defrosting control. 2,669,848, Feb. 23.

Fuller Label & Box Company, assignee: *See*—
Monks, Frank E.

Fuller, Lyle R.: *See*—
Skogstad, George, Elm, and Fuller.

Furth, Jacob R., assignor to The Will-Burt Company, Orrville, Ohio. Oil burning tobacco curing furnace and heat distributor. 2,670,191, Feb. 23.

Fyler, George W., Lombard, assignor to Motorola, Inc., Chicago, Ill. Automatic frequency control circuit. 2,670,438, Feb. 23.

Gardner, George F., Scotia, and T. A. Rich, Schenectady, N. Y., assignors to General Electric Company. Flowmeter. 2,669,873, Feb. 23.

Garzone, Salvatore D.: *See*—
Perry, Edward D., and Garzone.

Geerts, Marcellus J.: *See*—
Ayers, George W., Geerts, and Chandler.

Geigy, J. R., A. G., assignee: *See*—
Bossard, Werner.

Gellman, Abraham, New York, N. Y. Pleat forming device. 2,669,955, Feb. 23.

General Dyestuff Corporation, assignee: *See*—
Luttringhaus, Hans, and Arcus.

General Electric Company, assignee: *See*—
Barnes, Norman F.
Benander, George B.
Coutant, Edward R.

General Electric Company, assignee: *See*—
Gardner, George F., and Rich.
Kessler, Theodore P.
Lynch, Edward E.
Spiegelhalter, William G.

General Fireproofing Company, The, assignee: *See*—
Straubel, Clarence W.

General Motors Corporation, assignee: *See*—
Burge, James S., McKee, and Rider.
Hovde, Arne J., and Brill.
Leach, Clayton B.
Pichler, Joseph R.
Reddy, Virgin C., and Willrich.
Rossman, Edwin F.
Schneider, Paul L.
Sheley, Wayne H.

Getaz, James L., New York, N. Y. Method and apparatus for sewing the loops at the toe of circular knit hose. 2,669,952, Feb. 23.

Gibson, Albert G., Middletown, assignor to The Black-Clawson Company, Hamilton, Ohio. Apparatus for thickening liquid slurry stocks. 2,669,909, Feb. 23.

Gigler, Wilferd C., Camas, Wash. Machine for sealing cartons. 2,670,027, Feb. 23.

Gilbert, Roswell W., Montclair, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Subaudio electrical filter. 2,670,460, Feb. 23.

Gill, John O., Barnesboro, Pa. Shock absorber. 2,670,164, Feb. 23.

Given Machinery Company, assignee: *See*—
Jordan, Hans.

Gladstone, William E., Jr.: *See*—
Spaulding, Harry L., Gladstone, and Markovich.

Glaser, Leo B., Cranford, N. J., and F. A. Votta, Jr., Ambler, Pa., assignors, by mesne assignments, to Eastern Metals Research Co., Inc., New York, N. Y. Zero and two directional force mechanism. 2,670,198, Feb. 23.

Glasser, Austin C., trustee: *See*—
Rouse, George H., and Laylon.

Glassmire, William F., Groves, and J. H. Phillips, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Polymerization of olefins. 2,670,392, Feb. 23.

Gleason, Augustus W., Berkeley, and H. M. Bowles, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Folded end-panel carton. 2,670,127, Feb. 23.

Glidden Company, The, assignee: *See*—
Julian, Percy L., and Meyer.

Godbold, Nat H., Idaho Falls, Idaho, assignor to the United States of America as represented by the United States Atomic Energy Commission. Electromagnetic fluid pump. 2,669,931, Feb. 23.

Goddin, Clifton S., Jr.: *See*—
Cain, Donald G., Goddin, and Caruthers.

Godshall, Nicholas G., assignor to Walter W. Moyer Company, Ephrata, Pa. Infant's garment. 2,669,722, Feb. 23.

Golden, Samuel, New York, N. Y. Greeting card package and display container. 2,670,074, Feb. 23.

Goldsmith, Alfred N., New York, N. Y., assignor to Radio Corporation of America. Production of multilinear screens. 2,669,768, Feb. 23.

Goodemoot, Kenneth: *See*—
West, Herbert J., and Goodemoot.

Goodhue, William V., Warwick, and A. N. Verrier, Providence, assignors to Universal Winding Company, Cranston, R. I. Knotter. 2,670,230, Feb. 23.

Goodman Manufacturing Company, assignee: *See*—
Bergmann, Ernst R.
Bergmann, Ernst R., and Sloane.
Cartlidge, Frank.
Slomer, Joseph J.

Goodrich, B. F., Company, The, assignee: *See*—
Antonson, John O.
Kehe, Henry J.

Goodrich, Levi F., assignor to Corning Glass Works, Corning, N. Y. Container filling. 2,670,187, Feb. 23.

Goodwillie, John E., and L. Hornbostel, assignors to Beloit Iron Works, Beloit, Wis. Apparatus for removing liquids from perforated rotating shells. 2,669,912, Feb. 23.

Goodyear Aircraft Corporation, assignee: *See*—
Baum, Richard V., Morrill, and Osofsky.
Proebstle, Leonard J.

Gordon, Anthony, New York, N. Y. Fountain pen. 2,669,970, Feb. 23.

Gordon, Carroll M., San Pablo, and C. A. Corum, Berkeley, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission. Accelerator target holder. 2,670,440, Feb. 23.

Gore, Sam, Vero Beach, Fla. Vibration washer and steering knuckle. 2,670,229, Feb. 23.

Gorton, George, Machine Co., assignee: *See*—
Steinbrecker, Freddy, and Henkes.

Goss, William A.: *See*—
Preble, Norman H., and Goss.

Gottfried, Sidney: *See*—
Barsky, George, and Gottfried.

Gottlieb, Hans B., Glassboro, N. J., and J. D. Park, Boulder, Colo., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Fluorination of trifluoro-trichloro-propene. 2,670,387, Feb. 23.

Gracey, William R., Jr., Alexandria, Va., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Desk enclosure for automatic recorders. 2,670,262, Feb. 23.

Grady, John R., Cheadle Hulme, and H. L. Muschamp, Bramhall, England, said Grady assignor to said Muschamp. Automatic yarn winding machine. 2,670,151, Feb. 23.

Graham, Robert P., El Cerrito, G. H. Neel, Albany, and N. Fishman, Oakland, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Conditioning of limed pear waste. 2,670,289, Feb. 23.

Grail, Godfrey F.: *See*—
Scudi, John V., and Grail.

Grant, Raymond S., Port Arthur, Tex. Oil ring. 2,670,252, Feb. 23.

Gray, C C: *See*—
Watts, Rhea N., and Gray.

Green, George K., Henrietta, N. Y. assignor to Stromberg-Carlson Company. Control knob and shaft connection. 2,670,227, Feb. 23.

Greene, Glenn G., Jr., Warren, Pa. Connector for brooms, brushes, mops, and the like. 2,670,250, Feb 23.

Gregg, Ward M., Lodi, Calif. Reel for motion-picture film. 2,670,202, Feb. 23.

Gregory, Walter A., Wilmington, and E. C. Hermann, Willow Run, Wilmington, assignors to E. I. du Pont de Nemours and Company, Wilmington, Del. Girard derivatives of 5-halo-salicylaldehydes. 2,670,348, Feb. 23.

Greist Manufacturing Company, The, assignee: *See*—
Russell, Herbert H.

Grekel, Howard, B. S. Pace, and J. D. Ireland, assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Extractive distillation process. 2,670,324, Feb. 23.

Groat, Francis P., assignor to The Magee Carpet Company, Bloomsburg, Pa. Pile wire for wire looms and weaving pile fabrics. 2,670,013, Feb. 23.

Groendale, Henry J., Forest Hills, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Train describer system. 2,670,434, Feb. 23.

Groff, Frazier, Plainfield, and H. D. Bassett, Bound Brook, N. J., assignors to Union Carbide and Carbon Corporation. Microgroove polystyrene phonograph record. 2,670,308, Feb. 23.

Ground Water Inc., assignee: *See*—
Ranney, Leo.

Gruender, Oscar C., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Attrition mill. 2,670,142, Feb. 23.

Grunwald, Fred S., Ozone Park, N. Y. Synchronized rotating color filters. 2,670,400, Feb. 23.

Gulf Research & Development Company, assignee: *See*—
Clark, Dayton P., Jr.

Gurney, Gordon T.: *See*—
Freeman, Howard G., and Gurney.

H-P-M Development Corporation, assignee: *See*—
Tribbett, Murray C.
Tucker, Warren R.

Haarmann, Arnold, Brambauer, Westphalia, Germany. Pit prop. 2,670,170, Feb. 23.

Hadley, David J., Epsom Downs, England, assignor to The Distillers Company Limited, Edinburgh, Scotland. Oxidation of olefins. 2,670,380, Feb. 23.

Hadley, David J., Epsom Downs, England, and R. J. Nichol, Belfast, Northern Ireland, assignors to The Distillers Company Limited, Edinburgh, Scotland. Manufacture of unsaturated aldehydes. 2,670,379, Feb. 23.

Hadley, David J., Ensom Downs, R. Heap, Cheam, England, and R. J. Nichol, Belfast, Northern Ireland, assignors to The Distillers Company Limited, Edinburgh, Scotland. Oxidation of olefines. 2,670,381, Feb. 23.

Haegele, Otto P., assignor to White Castle System, Inc., Columbus, Ohio. Paper article of headwear. 2,669,725, Feb. 23.

Hague, Joseph R., assignee: *See*—
Sweeney, Charles W.

Hahn & Kolb, assignee: *See*—
Venus, Wilibald.

Haines, William C., La Salle, Ill. Blind stitching attachment for sewing machines. 2,669,956, Feb. 23.

Hair, Richard T., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Cable reeling mechanism. 2,670,153, Feb. 23.

Halamka, Charles J., Richmond, and L. R. La Porte, El Cerrito, assignors to California Research Corporation, San Francisco, Calif. Wax-oil separation process. 2,670,318, Feb. 23.

Hamler, Robert J., Pittsburgh, Pa. Tool for handling retaining rings. 2,669,772, Feb. 23.

Hammel-Dahl Company, assignee: *See*—
Dahl, Edward T., and Kneisel.

Hammesfahr, Willi, Solingen-Wald, Germany, assignor to J. G. Treacy, New York, N. Y. Frame for handbags and the like. 2,670,020, Feb. 23.

Hammond Iron Works, assignee: *See*—
Fino, Alexander F., and Plummer.

Hammond, John: *See*—
Darby, Paul F., Kinraide, Hentschel, and Hammond.

Hammond, William E., Wellsville, J. A. Lidford, Friendship, and C. A. Ballard, Belmont, assignors to The Air Preheater Corporation, New York, N. Y. Floating radial seal for regenerative heat exchangers. 2,670,183, Feb. 23.

Hanovia Chemical and Mfg. Company, assignee: *See*—
Darney, Harold E.

Hanser, William F., assignor to National Oats Company, Cedar Rapids, Iowa. Recovery of oat germ from oats. 2,670,290, Feb. 23.

Hansson, Malte, Baldwin Park, Calif. Indicating support for fire extinguishers. 2,670,194, Feb. 23.

Harmon, Paul V., assignor to Precision Parts Corporation, Nashville, Tenn. Electric motor installation. 2,670,447, Feb. 23.

Harper, Arthur R., assignor of fifty per cent to W. R. Findlay, Detroit, Mich. Burglar alarm system. 2,670,466, Feb. 23.

Harris, Samuel J., Dayton, Ohio. Trousers display device. 2,670,110, Feb. 23.

Harris, Thomas A., Edgbaston, Birmingham, assignor to Joseph Lucas Limited, Birmingham, England. Means for synchronizing aircraft engines. 2,669,837, Feb. 23.

Harris, Wilbur T., Southbury, Conn., W. B. Pegram, Swarthmore, Pa., H. S. Brazee, Terryville, and L. A. Hummel, Waterbury, assignors to The United States Time Corporation, Middlebury, Conn. Wind and set mechanism for watches. 2,669,832, Feb. 23.

Harrison, Dovie A., assignee: *See*—
Christie, Cleve F.

Hart, Carl: *See*—
Freimann, Frank, Hart, and Knox.

Hart, Edward G.: *See*—
Lansing, Charles B., and Hart.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Le Poole, Jan B.

Hartman, Robert B., Bridgeport, and W. H. Aitken, Milford, assignors to Remington Arms Company, Inc., Bridgeport, Conn. Detector for ferrous metal. 2,670,457, Feb. 23.

Hartweg, Dale G., Tulsa, Okla., assignor to The Dow Chemical Company, Midland, Mich. Detection of fluid movement in wells. 2,669,872, Feb. 23.

Harvill, Robert E.: *See*—
Moore, Thomas G., and Harvill.

Hasbany, Woodrow A., assignor to The Studebaker Corporation, South Bend, Ind. Parking lockup for transmissions. 2,670,064, Feb. 23.

Haughy, James C., Red Bluff, assignor to A. H. Thompson, San Francisco, Calif. Wrench for insertable teeth in saws. 2,669,886, Feb. 23.

Heap, Robert: *See*—
Hadley, David J., Heap, and Nichol.

Hecht, Benjamin P., Dorchester, and F. Koury, Somerville, assignors to Sylvania Electric Products Inc., Salem, Mass. Selenium rectifier. 2,669,767, Feb. 23.

Hedeen, M. Sidney, assignee: *See*—
Tonkin, Albert.

Hegel, John J., Meriden, Conn. Viewing apparatus. 2,669,783, Feb. 23.

Hein, Magdalina J., administratrix: *See*—
Hein, Peter J.

Hein, Peter J., deceased, Longmont, Colo., by M. J. Hein, administratrix. Trenching machine adjustment for digging conveyers. 2,669,792, Feb. 23.

Heiser, Robert F.: *See*—
Dunn, Robert G., and Heiser.

Heisterkamp, Charles A., Wynnewood, M. Dann, and J. P. Dura, Philadelphia, Pa., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y. Filling machine adapted to deliver metered amounts of solid comminuted materials. 2,670,101, Feb. 23.

Heizer, Edward J., Mountain Lakes, assignor to Specialties Development Corporation, Belleville, N. J. Winding machine. 2,670,146, Feb. 23.

Heller, Herman S., West Los Angeles, and W. E. Stofer, North Hollywood, Calif., said Stofer assignor to said Heller. Sound recording and reproduction system. 2,670,212, Feb. 23.

Heller, Milton J., Sacramento, Calif. Scaffold bracket. 2,670,248, Feb. 23.

Helms, Walter C., Jr., Annapolis, Md. Means for varying the discharge area of the tailpipe of a jet propelled plane. 2,669,834, Feb. 23.

Hemminger, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Regeneration of iron hydrocarbon synthesis catalyst. 2,670,364, Feb. 23.

Henderson, Clifford W., Emmaus, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y. Article forming apparatus. 2,669,811, Feb. 23.

Henkes, Peter M.: *See*—
Steinbrecker, Freddy, and Henkes.

Hentschel, Robert A. A.: *See*—
Darby, Paul F., Kinraide, Hentschel, and Hammond.

Hereid, Peter C., East Meadow, assignor, by mesne assignments, to Nepera Chemical Co., Inc., Yonkers, N. Y. Preparing choline salt of theophylline. 2,670,350, Feb. 23.

Hermann, Edward C.: *See*—
Gregory, Walter A., and Hermann.

Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Radioactivity borehole logging apparatus. 2,670,442, Feb. 23.

Hesch, Walter P., Washington, Mo. Collapsible seine. 2,669,798, Feb. 23.

Heyna, Johannes, Frankfurt am Main Unterliederbach, and W. Schumacher, Frankfurt am Main, assignors to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Bruning, Frankfurt am Main Hochst, Germany. Fixing water-soluble organic compounds on materials of fibrous structure. 2,670,265, Feb. 23.

Hill, Charles, Reno, Nev., and C. K. Johns, New York, N. Y. Watch winding means. 2,669,833, Feb. 23.

Hill, Walter P., Pontiac, Mich., assignor to Calumet & Hecla, Inc. Fin forming roll. 2,669,893, Feb. 23.

Hoag, Roderick W., assignor to Hoag-Russell Corporation, Melrose, Mass. Method and machine for filling and wrapping packages. 2,669,814, Feb. 23.

Hoag-Russell Corporation, assignee: *See*—
Hoag, Roderick W.

Hoare, Robert G.: *See*—
Neilson, Christopher B. V., and Hoare.

Hohenemser, Kurt H., Pattonville, Mo. Aircraft lifting rotor and pitch control mechanism therefor. 2,670,051, Feb. 23.

Holmes, Mark N., Burlington, assignor to Burlington Mills Corporation, Greensboro, N. C. Hosiery length measuring device. 2,669,866, Feb. 23.

Holmes, Mark N., Burlington, assignor to Burlington Mills Corporation, Greensboro, N. C. Hosiery length measuring device. 2,669,867, Feb. 23.

Holt, Robert G., Johnston, R. I., assignor to MCA Sales Corporation. Valve. 2,670,171, Feb. 23.

Hormann, Frank R., Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Producing rubber covered valve stem with compensating bushing. 2,669,753, Feb. 23.

Hornbostel, Lloyd: *See*—
Goodwillie, John E., and Hornbostel.

Hosemaster Machine Company Limited, assignee: *See*—
Wickardt, Kurt W.

Houdaille-Hershey Corporation, assignee: *See*—
Sandberg, Ray A.

Houdry Process Corporation, assignee: *See*—
King, Alfred S., and Cross.

Hoyde, Arne J., Fairview Park, and W. E. Brill, Cleveland, Ohio, assignors to General Motors Corporation, Detroit, Mich. Engine cooling system. 2,669,978, Feb. 23.

Hovland, Roger M., Colfax, Wis., assignor to Swift & Company, Chicago, Ill. Sausage stuffing and molding device. 2,669,749, Feb. 23.

Hower, Russell E., and A. Kuntz, assignors of one-third to J. N. Fisher, Dubois, Wyo. Cable connector. 2,669,761, Feb. 23.

Howerton, Murlin T., assignor to University of Notre Dame du Lac, Notre Dame, Ind. Polymerization of isobutene with anhydrous sulfur trioxide catalyst. 2,670,393, Feb. 23.

Hruby, Marie A. (Heldberg), Sunland, Calif. Personal belt. 2,669,990, Feb. 23.

Hruza, Francis E., Peetz, Colo. Two-level load-platform transporting vehicle. 2,670,217, Feb. 23.

Huber, Ronald F.: *See*—
Yonkers, Edward H., and Huber.

Hudson, William E., Jr., Vicksburg, Miss. Key case. 2,669,859, Feb. 23.

Huhn, Louis O., Detroit, Mich. Dispenser for coffee and like material. 2,670,105, Feb. 23.

Hüller, Adolf, Ludwigsburg, Germany. Chip breaking device. 2,669,889, Feb. 23.

Hummel, Louis A.: *See*—
Harris, Wilbur T., Pegram, Brazee, and Hummel.

Hunter, Edwin J., Riverside, Calif., assignor to B. Walker. Venetian blind slat. 2,670,037, Feb. 23.

Hunter, Melvin V., Richmond, and J. R. Segesser, El Cerrito, assignors to California Research Corporation, San Francisco, Calif. Low melting paraffin wax. 2,670,323, Feb. 23.

Hurst, Alvin L.: *See*—
McClintock, Thomas I., and Hurst.

Hutchins, James E., Jr., and G. T. Comeaux, Greenville, Miss. Cotton picker needle. 2,669,828, Feb. 23.

Hutchinson, Robert B., assignor to Alexander Smith, Incorporated, Yonkers, N. Y. Photoelectric stop mechanism for looms. 2,670,014, Feb. 23.

Hutchison, Thomas J., Jr., Nixon, Pa., assignor to American Wheelabrator & Equipment Corporation, Mishawaka, Ind. Steel shot for blast cleaning, blast peening, and the like. 2,670,281, Feb. 23.

Hyman, Benjamin M., East Moline, and L. P. Millard, Chicago, Ill., assignors to International Harvester Company. Lifting means for tractor-mounted equipment. 2,669,821, Feb. 23.

Imperial Chemical Industries Limited, assignee: *See*—
Ray, Neil H.

Imperial Talc Company, Inc., assignee: *See*—
Cohen, Herman.

Ine, Frank H., Milwaukee, Wis. Fowl tendon pulling machine. 2,669,748, Feb. 23.

Inland Steel Products Company, assignee: *See*—
Miller, Reginald M.

International Harvester Company, assignee: *See*—
Hyman, Benjamin M., and Millard.

Ipatieff, Vladimir N.: *See*—
Pines, Herman, and Ipatieff.

Ireland, John D.: *See*—
Grekel, Howard, Pace, and Ireland.

Irmscher, Hans O., East Hempstead, N. Y., assignor to National Tea Packing Company, Inc. Carton contents tamping and sealing apparatus. 2,669,813, Feb. 23.

Isler, Samuel, Asbury Park, N. J. Gummed tape dispenser. 2,670,042, Feb. 23.

J & L Engineering Company, Inc., assignee: *See*—
Pugh, Joseph M.

Jacob, Robert M., Ablon-sur-Seine, assignor to Societe des Usines Chimiques Rhone-Poulenc, Paris, France. New pyrimidine compounds and their preparation. 2,670,351, Feb. 23.

Jarrett, Harold M., Shinnston, W. Va. Form for neckties. 2,669,724, Feb. 23.

Jelliffe, Howard W., Los Angeles, Calif. Mop and frame therefor. 2,669,741, Feb. 23.

Jenkins, Edward A.: *See*—
Freeman, George A., and Jenkins.

Jewel Tea Company, Inc., assignee: *See*—
Flesner, Eugene E., and Lynch.

Joffe, Jack D., Hopewell, Va., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Production of alcohol-modified urea-formaldehyde resins. 2,670,341, Feb. 23.

Johansen, Frank M., Milwaukee, Wis. Method and apparatus for the extrusion filling of containers with ice cream and other similar semiplastic food substances. 2,670,116, Feb. 23.

Johns, Charles K.: *See*—
Hill, Charles, and Johns.

Johnsen, Carsten I., Floral Park, N. Y. Apparatus for treating gaseous and fluidized powder streams. 2,669,974, Feb. 23.

Johnson, Carl E.: *See*—
Lien, Arthur P., and Johnson.

Johnson, Charles R., Glenn Mills, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Initiator manufacturing apparatus. 2,670,465, Feb. 23.

Johnson, Clarence, Orfordville, Wis., assignor, by mesne assignments, to Rockwell Manufacturing Company, Pittsburgh, Pa. Coil winding apparatus and power mechanism therefor. 2,670,144, Feb. 23.

Johnson, Gordon H., and J. F. Wuellner, Cleveland, Ohio, assignors to Ferro Corporation. Color stable porcelain enamel and producing same. 2,670,300, Feb. 23.

Johnson, Lloyd E.: *See*—
Best, Cleafe A., and Johnson.

Johnson, Matthey & Company Limited, assignee: *See*—
Aldridge, Kenneth G.

Johnson, S. C., & Son, Inc., assignee: *See*—
Mailander, Norman G.

Jones, Otha C., Campbell, Calif., assignor to Monsanto Chemical Company, St. Louis, Mo. Producing orthophosphoric acid. 2,670,274, Feb. 23.

Jones, Rufus V., Bartlesville, Okla., assignor to Phillips Petroleum Company. Drilling muds and using same. 2,670,329, Feb. 23.

Jordan, Carmine G.: *See*—
Clark, John R., Coursen, and Jordan.

Jordan, Hans, assignor, by mesne assignments, to Given Machinery Company, Los Angeles, Calif. Float controlled garbage disposer. 2,670,137, Feb. 23.

Jordan, Hans, assignor to Given Machinery Company, Los Angeles, Calif. Garbage disposer with protective inlet. 2,670,143, Feb. 23.

Jordan, James F., Huntington Park, Calif. Production of pure dihalides. 2,670,270, Feb. 23.

Joslyn Mfg. & Supply Co., assignee: *See*—
Yonkers, Edward H., and Huber.

Joy, Joseph F., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Pulsator operated percussive device. 2,669,840, Feb. 23.

Joy Manufacturing Company, assignee: *See*—
Beblinger, Charles N.
Hair, Richard T.
Joy, Joseph F.

Joyce, Glover C., Worcester, assignor to Whitin Machine Works, Whitinsville, Mass. Bobbin winding machine. 2,670,147, Feb. 23.

Joyce, Glover C., Worcester, assignor to Whitin Machine Works, Whitinsville, Mass. Quick-traverse mechanism for winding machines. 2,670,148, Feb. 23.

Juhola, Carl, Manchester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Apparatus for attaching soles to shoes. 2,669,735, Feb. 23.

Julian, Percy L., Maywood, and E. W. Meyer, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio. Treatment of steroid quaternary ammonium salts. 2,670,359, Feb. 23.

Kahl, Carl H. W., Phoenix, Ariz. Grass shears with push rod rollers. 2,669,830, Feb. 23.

Kantor, James, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Apparatus for crowning containers under vacuum. 2,670,117, Feb. 23.

Kaplan, David: *See*—
Bloch, Rudolf, Schnerb, and Kaplan.

Kassel, Alvin, Bronx, N. Y. Nut-holding device. 2,669,894, Feb. 23.

Kassel, Louis S., Oak Park, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons with a HF catalyst, the reforming of the gasoline fraction and the regeneration of the HF with hydrogen from the reforming zone. 2,670,320, Feb. 23.

Keeney, Rollin D., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Injection molding device. 2,669,750, Feb. 23.

Kehe, Henry J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Aralkyl phenols as antioxidants. 2,670,340, Feb. 23.

Kelley, George G., Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Coupling stage for distributed amplifier stages. 2,670,408, Feb. 23.

Kellogg, M. W., Company, The, assignee: *See*—
Passino, Herbert J., Teeters, and Mantell.
Pyzel, Robert.
Rossheim, David B., Doane, and Siemer.

Kessler, Theodore P., Burlington, N. J., assignor to General Electric Company. Means for establishing substantially uniform flow rate in conduits and the like. 2,670,010, Feb. 23.

Kiekhaefer, Elmer C., Cedarburg, Wis. Reed valve unit for crankcase induction engines. 2,669,979, Feb. 23.

Kilmer, Charles B.: *See*—
Davidson, George W., Kupfer, and Kilmer.

Kilpatrick, James S., assignor to The Mycalex Company Limited, Cirencester, England. Manufacture of micaceous insulating materials. 2,669,764, Feb. 23.

Kimerer, Keith C., Seattle, Wash. Hubcap securing means. 2,670,245, Feb. 23.

King, Alfred S., Long Beach, Calif., and W. J. Cross, Jr., Swarthmore, Pa., assignors to Houdry Process Corporation, Wilmington, Del. Apparatus for controlling bed depth in conversion systems. 2,670,278, Feb. 23.

King Paint Roller Inc., assignee: *See*—
Coughlan, Standly T.

King, Walter C., Lancaster, S. C., and L. L. Leach, Akron, Ohio, assignors to The Babcock & Wilcox Company, Rockleigh, N. J. Air swept ball and ring pulverizer throat and upper ring construction. 2,670,138, Feb. 23.

Kinne, Tempel L., assignor to John E. Mitchell Company, Dallas, Tex. Cotton harvesting machine. 2,669,822, Feb. 23.

Kinraide, Thomas R.: *See*—
Darby, Paul F., Kinraide, Hentschel, and Hammond.

Kinzbach, Robert B., Houston, Tex. Casing scraper. 2,670,046, Feb. 23.

Kizis, Joseph A., South Windsor, Conn. Tobacco elevator. 2,670,094, Feb. 23.

Klein, Carroll J., assignee: *See*—
Corpeny, Elbert J.

Kliever, Waldo H., and L. G. Ekman, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Fire alarm tape. 2,670,419, Feb. 23.

Knauf, Wilhelm, assignor to Franke & Heidecke, Fabrik Photographischer Prazisions-Apparate, Braunschweig, Germany. Locking device for photographic camera backs. 2,670,096, Feb. 23.

Kneisel, Otto: *See*—
Dahl, Edward T., and Kneisel.

Knepper, Bonnie, De Witt, Iowa. Air conditioning system. 2,669,923, Feb. 23.

Knowles, Arthur: *See*—
Szaloki, Zoltan, Senior, and Knowles.

Knowles Associates, assignee: *See*—
Ried, Robert C.

Knox, Arthur L., Sr.: *See*—
Freimann, Frank, Hart, and Knox.

Koch, Max, New York, N. Y. Fur stole convertible to a jacket. 2,669,721, Feb. 23.

Koch, Robert L.: *See*—
Mayes, George C., and Koch.

Kohlbeck, Lottie M., Norton Township, Muskegon County, Mich. Automobile clothes hanger support. 2,670,112, Feb. 23.

Kopp, George, Rugby, England. Manually adjustable valve. 2,670,008, Feb. 23.

Koppers Company, Inc., assignee: *See*—
D'Alelio, Gaetano F.
Totzek, Friedrich.

Koury, Fred: *See*—
Hecht, Benjamin P., and Koury.

Kozacka, Frederick J., Amesbury, assignor to The Chase-Shawmut Company, Essex County, Mass. Fuse and fuse holder. 2,670,418, Feb. 23.

Kramer, Anton J., Fellsmere, Fla. Sugar cane harvester. 2,669,823, Feb. 23.

Krawetz, John: *See*—
Cole, Joseph, and Krawetz.

Krebs, Robert W., and A. Voorhies, Jr., Baton Rouge, La., assignors to Standard Oil Development Company. Naptha reforming process. 2,670,322, Feb. 23.

Kreidler, Alfred, assignee: *See*—
Rokahr, Siegfried.

Krueger, Alfred P., Stratford, assignor to Derby Sealers, Incorporated, Derby, Conn. Tape-dispensing mechanism with knife-guarding means. 2,670,041, Feb. 23.

Krueger, Alfred P., Stratford, and O. P. Erhardt, assignors to Derby Sealers, Incorporated, Derby, Conn. Feed control for tape-dispensing devices. 2,670,043, Feb. 23.

Kuh, Erwin, New Brunswick, and D. R. Seeger, Bond Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Thiophosphoric acid derivatives and preparing the same. 2,670,347, Feb. 23.

Kuntz, Al: *See*—
Hower, Russell E., and Kuntz.

Kupfer, Allen M.: *See*—
Davidson, George W., Kupfer, and Kilmer.

Kurtz, Lillian Hess, assignee: *See*—
Mueller, Herman H.

Kusznir, Phillip S., Santa Monica, Calif. Brush with soap supply. 2,669,738, Feb. 23.

La Bour Company, Inc., The, assignee: *See*—
La Bour, Harry E.

La Bour, Harry E., assignor to The La Bour Company, Inc., Elkhart, Ind. Impeller and shaft construction. 2,669,938, Feb. 23.

Laetari, Henry: *See*—
Newcomb, Howard L., Werner, Myers, and Laetari.

Lakatos, Emory, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Computer for multiple ballistics. 2,670,134, Feb. 23.

La Mers, Herbert, New York, and C. Leicht, Brooklyn, N. Y. Powder dispensing device. 2,670,103, Feb. 23.

Lampo, Lawrence C., Jr., assignee: *See*—
Pugh, Joseph M.

Landers, Thomas R., Holyoke, assignor to Moore Drop Forging Company, Springfield, Mass. Apparatus for spreading split bars to circular forms. 2,670,025, Feb. 23.

Landrum, John P., Centralia, Ill. Brake shoe adjuster. 2,670,058, Feb. 23.

Lange, Harold T., Webster Groves, assignor to Sporlan Valve Co., Inc., St. Louis, Mo. Refrigerant flow control. 2,669,849, Feb. 23.

Lansing, Charles B., and E. G. Hart, assignors to The Arco Company, Cleveland, Ohio. Valve controlled coating material heating unit. 2,670,238, Feb. 23.

La Porte, Lynn R.: *See*—
Halamka, Charles J., and La Porte.

Latulippe, Bazile A.: *See*—
McMahon, John P., and Latulippe.

Laux, Karl, Hannover-Linden, Germany. Sprinkling apparatus. 2,670,237, Feb. 23.

Lawhorn, William E., Osceola, Ark. Cross row cotton chopper. 2,669,918, Feb. 23.

Laycock, John N., Derry, N. H. Appliance for amphibious warfare. 2,669,960, Feb. 23.

Laylon, Harry L.: *See*—
Rouse, George H., and Laylon.

Leach, Clayton B., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Valve rocker mounting. 2,669,981, Feb. 23.

Leach, Lester L.: *See*—
King, Walter C., and Leach.

Learned, Vincent R., Garden City, N. Y., assignor to The Sperry Corporation. Electromagnetic wave attenuator. 2,670,461, Feb. 23.

Leatherman, Johnnie L., Millsap, Tex. Latch. 2,670,231, Feb. 23.

Lebocey, Bernard, Troyes, France. Yarn-controlled stopping device for knitting machines. 2,669,855, Feb. 23.

Lee, Leighton, II, Rocky Hill, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Fluid pump control apparatus for internal-combustion turbine engines. 2,669,838, Feb. 23.

Leicht, Charles: *See*—
La Mers, Herbert, and Leicht.

Leis, Arthur F., Dayton, Ohio. Tool for securing tile to wall or similar surface. 2,669,895, Feb. 23.

Lenk, Frederick R., Jr., Millington, N. J., assignor to Chicopee Manufacturing Corporation. Wall construction. 2,669,757, Feb. 23.

Lentz, David M., Maple Heights, assignor to E. K. Brown, Shaker Heights, Ohio. Tire pressure indicating and recording device. 2,669,876, Feb. 23.

Leonard, Lloyd H., New Hyde Park, N. Y. Foldable baby stroller. 2,670,216, Feb. 23.

Leonard, Oliver, Glendale, Calif. Lamp fixture. 2,670,430, Feb. 23.

Le Poole, Jan B., Delft, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electron microscope. 2,670,450, Feb. 23.

Leuthold, Eugen, Neuhausen, Switzerland, and E. Blum, assignors to Saba Schwarzwalder Apparate-Bau-Anstalt August Schwer Sohne, G. m. b. H., Villingen, Schwarzwald, Germany. Continuously variable condenser. 2,670,453, Feb. 23.

Lewis, Allen H., Berkeley, and R. D. Stayner, Albany, assignors to California Research Corporation, San Francisco, Calif. Preparation of esters of alkanephosphonic acids. 2,670,367, Feb. 23.

Lewis, Donald A., Jr., Parma, Ohio. Sky lookout support. 2,669,784, Feb. 23.

Lewis, Henry P., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Vapor generator operation. 2,669,977, Feb. 23.

Lidford, John A.: *See*—
Hammond, William E., Lidford and Ballard.

Liedtke, Hugo F.: *See*—
Drum, Harry S., Liedtke, and Schmitz.

Lien, Arthur P., Highland, and C. E. Johnson, Griffith, Ind., assignors to Standard Oil Company, Chicago, Ill. Recovery of ethylene. 2,670,391, Feb. 23.

Lighting Products, Inc., assignee: *See*—
Tillson, Edwin D.

Linder, Ernest G., Princeton, N. J., assignor to Radio Corporation of America. Sponge glass seal for wave guides. 2,670,462, Feb. 23.

Link-Belt Company, assignee: *See*—
Pierce, Harold S.

Link, George C., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Automatic brake adjuster. 2,670,059, Feb. 23.

Link, Herbert W., assignee: *See*—
Weber, Milton N.

Liquid Carbonic Corporation, The, assignee: *See*—
Kantor, James.

Lobbenberg, Hans, assignor of part interest to Trubenised (Great Britain) Limited, London, England. Corset. 2,669,718, Feb. 23.

Long, John R., Hickory, N. C. Time limit selector switch. 2,670,412, Feb. 23.

Lorentzen, Hans K., Montclair, N. J., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Venetian blind head bar organization and fittings. 2,670,038, Feb. 23.

Lorentzen Hardware Mf'g. Corp., assignee: *See*—
Lorentzen, Hans K.
Nelson, Harry.

Lott, William A., Maplewood, N. J., assignor to Mathieson Chemical Corporation, New York, N. Y. Quaternary ammonium salts of basic derivatives of substituted cinnamic acids and producing same. 2,670,360, Feb. 23.

Loudon, Norman G. W., assignee: *See*—
Bell, Percy F.

Lovett, Richard R., Jr., Longport, N. J. Submersible automatic bilge pump. 2,669,934, Feb. 23.

Lowe, Joe, Corporation, assignee: *See*—
Peyton, Norman I.

Lubinski, Arthur, Tulsa, Okla. Wear of bit indicator. 2,669,871, Feb. 23.

Lucas, Joseph, Limited, assignee: *See*—
Harris, Thomas A.

Lucker, Millard B., assignor to Auto Specialties Manufacturing Company, St. Joseph, Mich. Pushing or pulling jack. 2,670,174, Feb. 23.

Ludlow, Edmund, Columbus, Ind., assignor to Arvin Industries, Inc., Columbus, Ohio. Automobile-body heater. 2,670,184, Feb. 23.

Lundstrom, Ernest A., Valley Stream, assignor to The Air Preheater Corporation, New York, N. Y. Heat exchanger core constituted by folded plates. 2,670,186, Feb. 23.

Lutomski, Charles F.: *See*—
Fand, Theodore I., and Lutomski.

Luttringhaus, Hans, Chatham, N. J., and A. A. Arcus, Bellerose, assignors to General Dyestuff Corporation, New York, N. Y. Composition and process for dyeing polyethylene terephthalate fibers. 2,670,263, Feb. 23.

Lynch, Edward E., Wakefield, Mass., assignor to General Electric Company. Attitude indicator. 2,669,786, Feb. 23.

Lynch, John: *See*—
Flesner, Eugene E., and Lynch.

Lyon, George A., Detroit, Mich. Wheel cover. 2,670,243, Feb. 23.

Lyon, George A., Detroit, Mich. Wheel cover. 2,670,244, Feb. 23.

MCA Sales Corporation, assignee: See—
Holt, Robert G.

MacIntyre, Charles H., Haabrouck Heights, assignor to Bendix Aviation Corporation, Teterboro, N. J. Control mechanism and apparatus for an ice eliminating system having inflatable members and heater elements. 2,670,161, Feb. 23.

Mack, Victor C., Long Beach, Calif. Automatic telephone. 2,670,403, Feb. 23.

Macleish, Kenneth G., assignor to Eastman Kodak Company, Rochester, N. Y. Monochromator. 2,669,899, Feb. 23.

Magee Carpet Company, The, assignee: *See*—
Groat, Francis P.

Magnan, Lucien, and H. Switzman, Montreal, Quebec, Canada. Sliding hook. 2,670,168, Feb. 23.

Magnavox Company, The, assignee: *See*—
Freimann, Frank, Hart, and Knox.
Martin, Norman F.

Magoun, George L.: *See*—
Beaver, David J., and Magoun.

Mailander, Norman G., assignor to S. C. Johnson & Son, Inc., Racine, Wis. Water-repelling composition. 2,670,303, Feb. 23.

Main, Charles E., Akron, Ohio. Combined closure cap and brush dispenser. 2,669,740, Feb. 23.

Majik-Ironers, Inc., assignee: *See*—
Foster, Edwin E.

Mallinckrodt Chemical Works, assignee: *See*—
Stoughton, Roger W.

Malm, Carl J., and R. F. Williams, assignors to Eastman Kodak Company, Rochester, N. Y. Stabilized cellulose ester composition and preparing it. 2,670,302, Feb. 23.

Malone, Harold L., and E. S. Marvin, assignors to Eastman Kodak Company, Rochester, N. Y. Two-blade and cover blind shutter. 2,669,917, Feb. 23.

Mangano, Philip D., Providence, R. I. Inanimate cow milk dispenser. 2,670,102, Feb. 23.

Mann, Arvin W., Fort Lauderdale, Fla. Pin centering and paralleling instrument. 2,669,780, Feb. 23.

Mantell, Russell M.: *See*—
Passino, Herbert J., Teeters, and Mantell.

Marchal, Raymond H., and M. L. Fabre, assignors to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Paris, France. Internal-combustion engine. 2,669,984, Feb. 23.

Marconi's Wireless Telegraph Company Limited, assignee: *See*—
Cooper, Victor J.

Marien, Melvin W., Richmond Heights, assignor to Ramsey Corporation, St. Louis, Mo. Piston skirt stabilizer. 2,670,254, Feb. 23.

Markl, Arthur R. C., Louisville, Ky., assignor, by mesne assignments, to National Cylinder Gas Company, Chicago, Ill. Sphero-conically generated fitting. 2,670,224, Feb. 23.

Markovich, Mike: *See*—
Spaulding, Harry L., Gladstone, and Markovich.

Marks, Alvin M., Beechhurst, N. Y. Screen for producing television images. 2,670,402, Feb. 23.

Martin, Harold, East Molesey, England. Electric arc welding of metal or alloy studs and the like to metal or alloy plates and the like. 2,670,424, Feb. 23.

Martin, John W., Lima, Ohio. Folding bed or bunk. 2,669,731, Feb. 23.

Martin, Norman F., assignor to The Magnavox Company, Fort Wayne, Ind. Drive system for crystal pickups. 2,670,407, Feb. 23.

Marvin, Edgar S.: *See*—
Malone, Harold L., and Marvin.

Maschinenfabrik Augsburg-Nurnberg A. G., assignee: *See*—
Schörner, Christian, and Rothemünd.

Masheris, Fred A., and K. Tanko, assignors to Dormeyer Corporation, Chicago, Ill. Variable speed governor. 2,670,416, Feb. 23.

Mathieson Chemical Corporation, assignee: *See*—
Lott, William A.

Matthias, Lynn H.: *See*—
Dawe, Albert J., Matthias, and De Smidt.

Mauchly, John W.: *See*—
Eckert, John P., Jr., and Mauchly.

Mayes, George C., and R. L. Koch, Dallas, Tex., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Initiating subterranean combustion. 2,670,047, Feb. 23.

McClintock, Thomas I., New Kensington, Pa., and A. L. Hurst, Lafayette, Ind., assignors to Aluminum Company of America, Pittsburgh, Pa. Metal-working process and product. 2,670,309, Feb. 23.

McConnaughay, Kenneth E., Lafayette, Ind. Paving machine. 2,669,915, Feb. 23.

McCoy, Paul E., assignor, by mesne assignments, to American Bitumuls & Asphalt Company, San Francisco, Calif. Manufacture of bituminous emulsions. 2,670,304, Feb. 23.

McCoy, Paul E., Oakland, and C. E. Nelli, El Cerrito, assignors, by mesne assignments, to American Bitumuls & Asphalt Company, San Francisco, Calif. Oil-in-water coal tar emulsion and making it. 2,670,332, Feb. 23.

McCurdy, John L., Midland, and C. E. De Long, Freeland, assignors to The Dow Chemical Company, Midland, Mich. Production of cellular thermoplastic products. 2,669,751, Feb. 23.

McElvenny, William H., Drexell Hill, Pa., assignor to Crane Packing Company, Chicago, Ill. Electric control for motors. 2,670,001, Feb. 23.

McGrath, James R., Cleveland, Ohio. Sand blasting apparatus and method. 2,669,809, Feb. 23.

McKay, Dwight L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Removal of filtrate from filter cakes. 2,670,083, Feb. 23.

McKay, Kenneth G., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alpha particle counter. 2,670,441, Feb. 23.

McKee, Hilton J.: *See*—
Burge, James S., McKee, and Rider.

McKinney, Howard E., Bellaire, Tex., assignor to Shell Development Company, San Francisco, Calif. Lubricator device. 2,670,225, Feb. 23.

McLaurin-Jones Co., assignee: *See*—
Priest, Lester.

McMahon, John P., Huntington Woods, and B. A. Latulippe, Ferndale, Mich., assignors to National Steel Corporation. One-piece nail-receiving beam. 2,670,061, Feb. 23.

McMahon, Thomas J., assignee: *See*—
Brice, Sam.

McMillan, James O., assignor to F. J. Ablah, Wichita, Kans. Dishwashing machine. 2,669,999, Feb. 23.

Mehltretter, Charles L., R. L. Mellies, and J. C. Rankin, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Substituted gluconamides. 2,670,345, Feb. 23.

Meisel, Louis, White Plains, N. Y. Adjustable height waist and leg band for knitted or woven garments. 2,669,726, Feb. 23.

Melges, Frederick J., Battle Creek, Mich. Dismountable picnic table. 2,670,031, Feb. 23.

Mellies, Russell L.: *See*—
Mehltretter, Charles L., Mellies, and Rankin.

Melnick, Daniel, West Englewood, N. J. Protection of food against protein degradation. 2,670,291, Feb. 23.

Menaul, Paul L., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Sealing porous formations. 2,670,048, Feb. 23.

Mercola, Archibald A., and P. D. Tetrick, Beverly Hills, Calif. Acrobatic toy. 2,669,801, Feb. 23.

Meyer, Edwin W.: *See*—
Julian, Percy L., and Meyer.

Michigan Carton Company, assignee: *See*—
Stowitts, Frank H.

Midland Steel Products Company, The, assignee: *See*—
Almond, John R.

Milas, Nicholas A., Belmont, Mass., assignor to Research Corporation, New York, N. Y. Acetylene peroxides. 2,670,384, Feb. 23.

Millard, Lee P.: *See*—
Hyman, Benjamin M., and Millard.

Miller, C. Eugene, assignee: *See*—
Mueller, Herman H.

Miller, Charles B., Lynbrook, N. Y., and J. D. Calfee, Dayton, Ohio, assignors to Allied Chemical & Dye Corporation, New York, N. Y. Preparation of unsaturated fluoro-chloro-carbon. 2,670,388, Feb. 23.

Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Full tool gear finishing method. 2,669,905, Feb. 23.

Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Work support for long workpieces with machine tools. 2,669,907, Feb. 23.

Miller, Reginald M., assignor to Inland Steel Products Company, Milwaukee, Wis. Wall base clip. 2,669,862, Feb. 23.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Kliever, Waldo H., and Ekman.
Schuck, Oscar H.
Wilson, Theodore J.

Minsk, Louis M., W. P. Van Deusen, and E. M. Robertson, assignors to Eastman Kodak Company, Rochester, N. Y. Photosensitization of polymeric cinnamic acid esters. 2,670,285, Feb. 23.

Minsk, Louis M., W. P. Van Deusen, and E. M. Robertson, assignors to Eastman Kodak Company, Rochester, N. Y. Photosensitization of polymeric cinnamic acid esters. 2,670,286, Feb. 23.

Minsk, Louis M., W. P. Van Deusen, and E. M. Robertson, assignors to Eastman Kodak Company, Rochester, N. Y. Photosensitization of polymeric cinnamic acid esters. 2,670,287, Feb. 23.

Mitchell, Charles R., Seneca Falls, N. Y., assignor to Sylvania Electric Products Inc. Mount tray. 2,669,774, Feb. 23.

Mitchell, Doren, Martinsville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radiotelephone communication system. 2,670,435, Feb. 23.

Mitchell, John E., Company, assignee: *See*—
Kinne, Tempel L.

Modern Equipment Company, assignee: *See*—
Richardson, John N.

Modine Manufacturing Company, assignee: *See*—
Spieth, Benjamin.

Mohr, Milton E., New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system employing electron beams. 2,670,405, Feb. 23.

Molla, Charles P., assignee: *See*—
Applegate, Raymond P.

Monks, Frank E., assignor to Fuller Label & Box Company, Pittsburgh, Pa. Stacked neckbands. 2,670,076, Feb. 23.

Monolith Portland Cement Company, assignee: *See*—
Treshow, Michael.

Monsanto Chemical Company, assignee: *See*—
Beaver, David J., and Magoun.
Downey, Paul M., and Zerbe.
Jones, Otha C.
Keeney, Rollin D.

Moon, Francis T., Ottawa, Ontario, Canada. Guard for beds. 2,669,732, Feb. 23.

Mooney, John D., St. Paul, Minn. Hydraulic reversing transmission. 2,669,971, Feb. 23.

Moore, Donald W., Lancaster, and A. H. Searl, Lancaster Township, Lancaster County, assignors to Armstrong Cork Company, Lancaster, Pa. Resilient floor and wall tile and preventing objectionable curling thereof. 2,670,307, Feb. 23.

Moore Drop Forging Company, assignee: *See*—
Landers, Thomas R.

Moore, Harry W., assignee: *See*—
Biddison, John M.

Moore, Thomas G., Takoma Park, and R. E. Harvill, Hyattsville, assignors to American Instrument Co., Inc., Silver Spring, Md. High-pressure valve. 2,670,172, Feb. 23.

Morgan, Allan, assignor to All Metal Products Company, Wyandotte, Mich. Construction of figurines. 2,669,803, Feb. 23.

Morgan Construction Company, assignee: *See*—
O'Malley, Joseph M.

Morrell, Jacque C., Merion, Pa. Conversion of hydrocarbons with an active silica composited catalyst mixture. 2,670,321, Feb. 23.

Morrill, Charles D.: *See*—
Baum, Richard V., Morrill, and Osofsky.

Morrison, Montford, Rochester, N. Y. Electronic tube oscillation system. 2,670,437, Feb. 23.

Morse, Glenn B., Grand Rapids, Mich. Hinge assembly for furnace doors. 2,670,197, Feb. 23.

Moses, Nelson K., Ashtabula, Ohio, assignor to Railroad Rubber Products, Inc. Resilient traction rail joint insulator. 2,670,136, Feb. 23.

Motorola, Inc., assignee: *See*—
Fyler, George W.

Moyer, Walter W., Company, assignee: *See*—
Godshall, Nicholas G.

Mueller, Herman H., assignor of five and fifty-eight hundredths per cent to G. L. Bowman, fourteen per cent to S. A. Radzay, Ephrata, Pa., fourteen per cent to H. Seidenberg, Malverne, N. Y., two and ninety-two hundredths per cent to J. L. Bowman, Denver, seven per cent to W. H. Brown, Lancaster, three and twenty-five hundredths per cent to C. E. Miller, Ephrata, and three and twenty-five hundredths per cent to L. H. Kurtz, Lancaster, Pa. Phonograph record disk safety and interlocking storage album. 2,670,261, Feb. 23.

Mueller, Otto, Dearborn, Mich. Hydraulic fluid control panel. 2,669,841, Feb. 23.

Muirhead & Company Limited, assignee: *See*—
Bell, John, and Cannon.

Munn, John E., Bellevue, Pa. Conversion of metals into metal oxides and hydroxides. 2,670,273, Feb. 23.

Murray Company of Texas, Inc., The, assignee: *See*—
Day, Dewey D.

Murray, Herbert C., Hickory Corners, and D. H. Peterson, assignors to The Upjohn Company, Kalamazoo, Mich. 6 beta, 17 alpha-dihydroxy-4-pregnene-3,20-dione and esters thereof. 2,670,357, Feb. 23.

Murray, Herbert C., Hickory Corners, and D. H. Peterson, assignors to The Upjohn Company, Kalamazoo, Mich. 14 alpha-hydroxyprogesterone. 2,670,358, Feb. 23.

Murrow, Richard B.: *See*—
Shull, George O., and Murrow.

Muschamp, Harold L.: *See*—
Grady, John R., and Muschamp.

Mycalex Company Limited, The, assignee: *See*—
Kilpatrick, James S.

Myers, Richard J.: *See*—
Newcomb, Howard L., Werner, Myers, and Laetari.

Naragon, Ernest A.: *See*—
Rosenthal, Robert W., and Naragon.

National Cylinder Gas Company, assignee: *See*—
Markl, Arthur R. C.

National Lead Company, assignee: *See*—
Dahlstrom, Roy, and Bronson.
Wadington, John P.

National Oats Company, assignee: *See*—
Hanser, William F.

National Presto Industries, Inc., assignee: *See*—
Yarrington, Harold E.

National Steel Corporation, assignee: *See*—
Fenske, Harry D.
McMahon, John P., and Latulippe.

National Tea Packing Company, Inc., assignee: *See*—
Irmscher, Hans O.

Natland, Manley L., Rolling Hills, and R. E. Pearson, Compton, assignors to Richfield Oil Corporation, Los Angeles, Calif. Punch core orienting device. 2,670,179, Feb. 23.

Nauroth, Larry J., Dallas, Tex. Refrigerating apparatus for producing frozen confections. 2,669,852, Feb. 23.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Clark, John R., Coursen, and Jordan.

Naylor, Arthur F., Haddonfield, and A. M. Spielberg, Camden, N. J., assignors to Radio Corporation of America. Switching system for dual-speed electric servo mechanism. 2,670,456, Feb. 23.

Naylor, Joseph F., assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England. Squeeze roller apparatus. 2,669,948, Feb. 23.

Nebel, Richard W., Chester, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Dyeing cellulose esters. 2,670,264, Feb. 23.

Neel, George H.: *See*—
Graham, Robert P., Neel, and Fishman.

Neill, Carl E.: *See*—
McCoy, Paul E., and Neill.

Neilson, Christopher B. V., Fearnhead, near Warrington, and R. G. Hoare, assignors to Electro-Hydraulics Limited, Warrington, England. Aircraft landing gear with means for minimizing wheel drag load incident to landing. 2,670,160, Feb. 23.

Nelson, Harry, assignor to Lorentzen Hardware Mf'g Corp., New York, N. Y. Venetian blind installation bracket. 2,670,167, Feb. 23.

Nelson, Thomas E., Drayton Plains, Mich. Pulley construction. 2,669,878, Feb. 23.

Nepera Chemical Co. Inc., assignee: *See*—
Fand, Theodore I., and Lutomski.
Hereld, Peter C.
Scudi, John V., and Grail.

Neveroil Products Company, assignee: *See*—
Smith, Fred R., and Connolly.

Newcomb, Howard L., F. E. Werner, R. J. Myers, and H. Laetari, Los Angeles County, assignors to Roberts Manufacturing Co., Los Angeles, Calif. Apparatus for producing carpet retaining strips. 2,669,714, Feb. 23.

New Wrinkle, Inc., assignee: *See*—
Toulmin, Harry A., Jr.

Nichol, Robert J.: *See*—
Hadley, David J., Heap, and Nichol.
Hadley, David J., and Nichol.

Nicholson, Kenneth C., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory bodies and compositions and making the same. 2,670,301, Feb. 23.

Nicolet, Walther H.: *See*—
Voumard, Bertrand P., and Nicolet.

Niles-Bement-Pond Company, assignee: *See*—
Lee, Leighton, H.

Nordberg Manufacturing Company, assignee: *See*—
Gruender, Oscar C.

Norman, William S., Chester, and C. H. V. Sawyer, Hayes, assignors to C. D. Patents Limited, London, England. Making a heat exchanger. 2,670,311, Feb. 23.

Norton Company, assignee: *See*—
Stone, H. Nathan.

Nutting, Robert D., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Metal oxide production. 2,670 272, Feb 23.

Oberwerger, William, Brooklyn, N. Y., assignor to Floral Fence, Inc., Newark, N. J. Ornamental knockdown fence unit. 2,670,182, Feb. 23.

O'Donnell, James M., Alleghany, Calif. Bridle bit. 2,669,817, Feb. 23.

Ohio Brass Company, The, assignee: *See*—
Sheadel, John M., and Taylor.

Oil Equipment Laboratories, Incorporated, assignee: *See*—
Ayres, John E.

Oldberg, Sidney, Birmingham, and M. C. Turkish, Detroit, Mich., assignors to Eaton Manufacturing Company, Cleveland, Ohio. Self-locking adjustment screw. 2,670 022, Feb. 23.

Oldbury Electro-Chemical Company, assignee: *See*—
Baker, Arthur A., and Brown.

Olin Industries, Inc., assignee: *See*—
Zvanut, Carl M.

Olivier, Louise M. G., Ottawa Ontario Canada. Changeable feature doll head. 2,669,802, Feb. 23.

Olson, Carl M., Newark, and J. N. Tully, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Metal oxide production 2,670,275, Feb. 23.

Olson, Ernest H., assignor to The Pyle-National Company, Chicago, Ill. Loading light. 2,670,428, Feb. 23.

O'Malley, Joseph M., assignor to Morgan Construction Company, Worcester, Mass. Rolling mill. 2,669,892, Feb. 23.

Opuszenski, Theodore, Stamford, Conn. Artificial hand. 2,669,727, Feb 23.

Osofsky, Irving B.: *See*—
Baum, Richard V., Morrill, and Osofsky.

Pace, Benjamin S.: *See*—
Grekel Howard, Pace and Ireland.

Pagliuso, Robert J., La Canada, Calif. Ball swivel, tripod assembly head. 2,670,228, Feb. 23.

Paris, Francois G.: *See*—
Bertin Jean H., and Paris.

Park Joseph D.: *See*—
Gottlieb, Hans B., and Park.

Parker, George E., assignor to Woodward Governor Company, Rockford, Ill. Condition regulating apparatus. 2,669,973, Feb. 23.

Parks, Asbury S., assignor to J. E. Edwards, Houston, Tex. Dump valve. 2,670,006, Feb. 23.

Parrish, Dennis B., Clover, S. C. Pneumatic lint collection apparatus for textile machines. 2,669,744, Feb. 23.

Passino, Herbert J., Englewood, W. O. Teeters, River Edge, and R. M. Mantell, Orange, assignors to The M. W. Kellogg Company, Jersey City, N. J. Manufacture of halocarbons. 2,670,389, Feb. 23.

Paterson, Rex M., Cliddesden, Basingstoke, England. Sweep or like attachment for tractors. 2,670,089, Feb. 23.

Patterson, Charles H., Shelton, Wash. Weaner. 2,669,967, Feb. 23.

Pearson, Herschell R., Everett, Wash. Log loading boom. 2,670,177, Feb. 23.

Pearson, Raymond E.: *See*—
Natland, Manley L., and Pearson.

Pegram, William B.: *See*—
Harris, Wilbur T., Pegram, Brazee, and Hummel.

Pennock, John C., Marblehead, and A. J. Bacchieri, Dedham, assignors to Tracerlab, Inc., Boston, Mass. Radiation beam forming unit. 2,670,443, Feb. 23.

Pennsylvania Crusher Company, assignee: *See*—
Douglas, Harry J.

Perfect Circle Corporation, assignee: *See*—
Ware, Le Roy.

Perrault Bros., assignee: *See*—
Cunningham, Joseph A.

Perry, Edward D., East Providence, and S. D. Garzone, Johnston, assignors to Ansul-Craft, Inc., Providence, R. I. Machine for stringing beads or other like pierced articles. 2,670,109, Feb. 23.

Perry, Winthrop L., Milford, assignor to Abbott Machine Co., Inc., Wilton, N. H. Winding machine. 2,670,149, Feb. 23.

Perry, Winthrop L., Milford, and J. E. Ring, assignors to Abbott Machine Co., Inc., Wilton, N. H. Bobbin handling mechanism. 2,670,150, Feb. 23.

Peterson, Durey H.: *See*—
Murray, Herbert C., and Peterson.

Peterson, Edwin F., Kewanee, Ill. Making core box vent plugs. 2,669,769, Feb. 23.

Peterson, Joel D., Ridgewood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Engine control and synchronization system. 2,670,157, Feb. 23.

Peyton, Norman I., Baltimore, Md., assignor to Joe Lowe Corporation, New York, N. Y. Apparatus for making variegated ice creams and the like. 2,669,946, Feb. 23.

Philco Corporation, assignee: *See*—
Thompson, Elmer O.

Phillips, Bernard C., assignor to The Tillotson Manufacturing Company, Toledo, Ohio. Charge forming device. 2,670,189, Feb. 23.

Phillips, James H.: *See*—
Glassmire, William F., and Phillips.

Phillips Petroleum Company, assignee: *See*—
Jones, Rufus V.
McKay, Dwight L.

Philpott, La Verne R., Washington, D. C. Axis control for guided missiles. 2,670,158, Feb. 23.

Pichler, Joseph R., assignor to General Motors Corporation, Dayton, Ohio. Open top display case with slidable hood. 2,669,851, Feb. 23.

Picker, Harold J., Mechanicsburg, Ohio. Detachable platform for small boats. 2,669,733, Feb. 23.

Piel, Gérard J. R.: *See*—
Raymond, François H., and Piel.

Pien, Hsia-Si, Drexel Hill, assignor to Wilkening Manufacturing Company, Philadelphia, Pa. Piston ring. 2,670,256, Feb. 23.

Pierce, Harold S., Indianapolis, Ind., assignor to Link-Belt Company. Power transmission chain. 2,669,879, Feb. 23.

Pilch, John S., Ware, Mass. Semirigid mounting for tractors. 2,670,249, Feb. 23.

Pines, Herman, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Catalyzed condensation of aromatic compounds with unsaturated organic compounds. 2,670,390, Feb. 23.

Pittsburgh Plate Glass Company, assignee: *See*—
Duncan, James E., and Smith.
Smith, John J.

Plax Corporation, assignee: *See*—
Pratt, William S.

Pletsch, Adam, Spokane, Wash. Bitless hackamore. 2,669,816 Feb. 23.

Plummer, Fred L.: *See*—
Fino, Alexander F., and Plummer.

Podbielniak, Walter J., Chicago, Ill., assignor of one-half to W. G. Podbielniak. Centrifugal countercurrent contact apparatus. 2,670,132, Feb. 23.

Podbielniak, Wladzia G., assignee: *See*—
Podbielniak, Walter J.

Portage Machine Co., assignee: *See*—
Tao, Deh C.

Powell, James H., Watertown, Mass. Bowling game. 2,670.204, Feb. 23.

Praeg, Walter S., and A. B. Bassoff, Detroit, Mich., assignors, by mesne assignments, to The Fellows Gear Shaper Company, Springfield, Vt. Gear shaper. 2,669,906, Feb. 23.

Pratt, William S., Pleasant Valley, assignor to Plax Corporation, West Hartford, Conn. Molding process. 2,669,752, Feb. 23.

Preble, Norman H., Detroit, Mich., and W. A. Goss, Zanesville, Ohio, assignors to Detroit Harvester Company, Detroit, Mich. Mower structure. 2,669,825, Feb. 23.

Precision Parts Corporation, assignee: *See*—
Harmen, Paul V.

Presentey, Shelley, Bordeaux, France. Reciprocating pump. 2,669,937, Feb. 23.

Preventive Maintenance Company, assignee: *See*—
Bloxsom, Eugene S.

Price, Berry G., Houston, assignor, by mesne assignments, to Tuboscope Company, Harris County, Tex. Means for transferring collars. 2,669,773, Feb. 23.

Priest, Lester, assignor to McLaurin-Jones Co., Brookfield, Mass. Rewinding machine. 2,670,152, Feb. 23.

Proebstle, Leonard J., Massillon, assignor to Goodyear Aircraft Corporation, Akron, Ohio. Supporting enclosure for jettisonable flexible fuel cells. 2,670,162, Feb. 23.

Pugh, Joseph M., Jeanerette, assignor of twenty-five per cent to L. C. Lampo, Jr., Iberia Parish, and twenty-five per cent to J & L Engineering Company, Inc., Jeanerette, La. Cane harvesting and piling machine. 2,669,829, Feb. 23.

Pure Oil Company, The, assignee: *See*—
Ayers, George W., Geerts, and Chandler.

Pursche, Harry A., Gardena, Calif. Disk harrow. 2,669,818, Feb. 23.

Pyle-National Company, The, assignee: *See*—
Olson, Ernest H.

Pyles, George S., Detroit, Mich. Flow gun. 2,670,241, Feb. 23.

Pyzel, Robert, New York, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Controlling flow of fluidized solids. 2,670,193, Feb. 23.

Quinn, David H., Brookline, Mass. Water purifier. 2,670,081, Feb. 23.

Quirk, Earl W., Watertown, and A. R. Buchholz, Dodge County, assignors to Brandt Automatic Cashier Company, Watertown, Wis. Coin-counting machine. 2,669,997, Feb. 23.

Rader, Clarence M., San Marino, Calif. Electrolytic liquid treating device. 2,670,327, Feb. 23.

Radio Corporation of America, assignee: *See*—
Cherry, William H.
Goldsmith, Alfred N.
Linder, Ernest G.
Naylor, Arthur F., and Spielberg.

Radzay, Stanley A., assignee: *See*—
Mueller, Herman H.

Rahn, Henry W., Corpus Christi, Tex., Columbia-Southern Chemical Corporation. Sodium carbonate. 2,670,269, Feb. 23.

Railroad Rubber Products, Inc., assignee: *See*—
Moses, Nelson K.

Ramien, Wolfgang, Neckargemund, Germany. Locking device for bags, trunks, and the like. 2,669,857, Feb. 23.

Ramser, John H.: *See*—
Dunlap, Henry F., and Ramser.

Ramsey Corporation, assignee: *See*—
Marien, Melvin W.

Ranco Incorporated, assignee: *See*—
Raney, Estel C.

Raney, Estel C., Delaware, assignor to Ranco Incorporated, Columbus, Ohio. Pressure responsive switch. 2,670,417, Feb. 23.

Rankin, John C.: *See*—
Mehltretter, Charles L., Mellies, and Rankin.

Ranney, Leo, Moro Bay, Calif., assignor to Ground Water Inc. Method and apparatus for advancing subterranean pipe. 2,670,180, Feb. 23.

Rasmussen, Gerald R., Chappell, Nebr. Animal operated stock oiler. 2,669,968, Feb. 23.

Rasmussen, Gerald R., Chappell, Nebr. Livestock oiling apparatus. 2,669,969, Feb. 23.

Rauland Corporation, The, assignee: *See*—
Szegho, Constantin S., Reed, and Amdursky.

Rauscher, Elbridge F., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Pump and valve assembly. 2,669,932, Feb. 23.

Ray, James L., Long Beach, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Fuel feeding system. 2,670,033, Feb. 23.

Ray, Neil H., Northwich, England, assignor to Imperial Chemical Industries Limited. Manufacture of new polyalkylidenes by condensation of diazoalkanes. 2,670,333, Feb. 23.

Raymond, François H., Le Vesinet, and G. J. R. Piel, assignors to Societe d'Electronique et d'Automatisme, Paris, France. Method and means for remote selecting members. 2,670,463, Feb. 23.

Raytheon Manufacturing Company, assignee: *See*—
Turner, Edwin E.

Razzano, Dominick D., Rego Park, N. Y. Treatment of colored pictorial representations to simulate original oil paintings. 2,669,797, Feb. 23.

Ream, Fred H., Montgomery County, Ohio. Pipe coupling. 2,670,223, Feb. 23.

Reddy, Virgin C., Livonia, and C. J. Willrich, Jr., Allen Park, assignors to General Motors Corporation, Detroit, Mich. Governor mechanism. 2,669,983, Feb. 23.

Reed Roller Bit Company, assignee: *See*—
Rees, Shropshire E.

Reed, William O.: *See*—
Szegho, Constantin S., Reed, and Amdursky.

Rees, Shropshire E., assignor to Reed Roller Bit Company, Houston, Tex. Countersinking apparatus. 2,669,887, Feb. 23.

Reeve, Robert E., Tracy, Calif. Valve. 2,670,009, Feb. 23.

Rehfeld, George W., Manhattan, Kans. Jetty. 2,669,844, Feb. 23.

Reborn, Miles P., Nashville, Tenn. Optical system adaptable to stereoscopic projectors, viewers, and television. 2,669,901, Feb. 23.

Reintjes, George P., Kansas City, Mo. Insulating encasement 2,670,192, Feb. 23.

Remington Arms Company, Inc., assignee: *See*—
Catlin, Robert T.
Darby, Paul F., Kinraide, Hentschel, and Hammond.
Eckstein, George R.
Hartman, Robert B., and Aitken.

Reppert, Charles L., Trenton, N. J. Combination platform and hand truck. 2,670,093, Feb. 23.

Republic Steel Corporation, assignee: *See*—
Darner, Frederic M., and Schaefer.

Research Corporation, assignee: *See*—
Milas, Nicholas A.

Revere Copper and Brass Incorporated, assignee: *See*—
Welden, William A.

Reynolds, Boyd F., Twin Falls, Idaho. Wire splicer and scraper. 2,670,015, Feb. 23.

Reynolds, Charles B., Orange, Calif. Parking brake. 2,670,063, Feb. 23.

Rich, Theodore A.: *See*—
Gardner, George F., and Rich.

Richardson, Franklin, Glendale, Calif. Reclining article of furniture. 2,670,030, Feb. 23.

Richardson, John N., assignor to Modern Equipment Company, Port Washington, Wis. Cupola and charging apparatus therefor. 2,670,088, Feb. 23.

Richfield Oil Corporation, assignee: *See*—
Natland, Manley L., and Pearson.

Rider, Don K., Plainfield, N. J., assignor to Chicopee Manufacturing Corporation. Making nonwoven fabric. 2,670,315, Feb. 23.

Rider, Warren W.: *See*—
Burge, James S., McKee, and Rider.

Ried, Robert C., Carle Place, assignor to Knowles Associates, New York, N. Y. Centrifuge with interstage washing. 2,670,131, Feb. 23.

Ring, Joseph E.: *See*—
Perry, Winthrop L., and Ring.

Ritchie, Edmond S., Vancouver, British Columbia, Canada. Artificial limb socket or boot. 2,669,728, Feb. 23.

Roberts Manufacturing Co., assignee: *See*—
Newcomb, Howard L., Werner, Myers, and Laetari.

Robertson, Earl M.: *See*—
Minsk, Louis M., Van Deusen, and Robertson.

Rockwell Manufacturing Company, assignee: *See*—
Johnson, Clarence.

Rockwood Sprinkler Company, assignee: *See*—
Freeman, Howard G., and Gurney.

Rokahr, Siegfried, Stuttgart, assignor to A. Kreidler, Stuttgart-O, Germany. Telescopic tubular cycle fork with flattened lower ends. 2,670,218, Feb. 23.

Roop, Nathan W., assignor to Columbus Plastic Products, Inc., Columbus, Ohio. Food-serving appliance. 2,670,234, Feb. 23.

Rosenkaimer & Cie., assignee: *See*—
Völker, Alois.

Rosenthal, Robert W., Poughkeepsie, and E. A. Naragon, Glenham, assignors to The Texas Company, New York, N. Y. Preparing alcohols from olefins. 2,670,385, Feb. 23.

Rossheim, David B., Teaneck, D. V. Doane, Maywood, N. J., and C. A. Siemer, Staten Island, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J. Wall structure for regeneratively cooled rocket motors. 2,669,835, Feb. 23.

Rossi, Fred, Philadelphia, Pa. Bathtub seat structure. 2,670,029, Feb. 23.

Rossiter, Jay A., Houston, Tex. Multiple unit gas-oil separator and gas cleaner. 2,670,056, Feb. 23.

Rossman, Edwin F., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Control mechanism. 2,670,201, Feb. 23.

Roth, Harold H., Bay City, assignor to The Dow Chemical Company, Midland, Mich. Polyhydric alcohol compositions containing an alkali salt of a sulfonated alkenyl aromatic resin. 2,670,336, Feb. 23.

Rothemünd, Max: *See*—
Schörner, Christian, and Rothemünd.

Rouse, George H., and H. L. Laylon, assignors to Samson United Corporation, Rochester, N. Y., E. L. Doyle and A. C. Glasser, trustees of Samson United Corporation, assignors to Bickford Bro's. Co., Rochester, N. Y. Automatic electric toaster. 2,669,925, Feb. 23.

Rowe, George E., Wethersfield, Conn., assignor to Emhart Manufacturing Company. Glass charge delivery and forming apparatus. 2,669,805, Feb. 23.

Russell, Herbert H., assignor to The Greist Manufacturing Company, New Haven, Conn. Ruffler. 2,669,954, Feb. 23.

Rutishauser, Albert: *See*—
Rutishauser, Heinz and A.

Rutishauser, Heinz and A., Zurich, Switzerland. Appliance on typewriting, calculating, or bookkeeping machines for automatically setting a top sheet to a predetermined line. 2,670,068, Feb. 23.

Rutter, David L.: *See*—
Carbiener, Harvey D., and Rutter.

Rydberg, Johan O., assignor to Eskilstuna Jernmanufaktur Aktiebolag, Eskilstuna, Sweden. Door-closing device. 2,669,745, Feb. 23.

Rydzewski, George S., Milwaukee, Wis. Sounding device for locating shallows and holes in a lake bottom. 2,669,785, Feb. 23.

St-West, Inc., assignee: *See*—
Stehlin, Theodore A.

Saba Schwarzwalder Apparate-Bau-Anstalt August Schwer Sohne, G. m. b. H.: *See*—
Leuthold, Eugen, and Blum.

Saboe, Michael S., Norristown, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Combustion apparatus. 2,669,839, Feb. 23.

Sahl, Moody S., Chicago, Ill. Scooter airplane. 2,670,155, Feb. 23.

Sainsbury, Frederick L.: *See*—
Shakesby, Leonard, and Sainsbury.

Samson United Corporation, assignee: *See*—
Rouse, George H., and Laylon.

Sandberg, Ray A., Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Straight pull brake lever assembly. 2,669,884, Feb. 23.

Sanguineti, Emanuele, Genoa, Italy. Collapsible ladder, double ladder, and stepladder. 2,670,120, Feb. 23.

Saponara, Domenick, Spring City, assignor to The Floyd Wells Company, Royersford, Pa. Combination gas and oil range. 2,669,985, Feb. 23.

Sawyer, Charles H. V.: *See*—
Norman, William S., and Sawyer.

Sawyer, Frederick D., Wayne, assignor to Dearborn Motors Corporation, Birmingham, Mich. Stalk shredder hammer and spacer. 2,669,819, Feb. 23.

Sayles, Raymond E., Kansas City, Mo. Cloth cutter for cloth spreading machines and having reciprocable cutter disks. 2,670,040, Feb. 23.

Scattergood, Allen, Orange, N. J., assignor to Sugar Research Foundation, Inc., Cambridge, Mass. 4,6-alkylidene-D-glucitol and producing the same from sucrose. 2,670,354, Feb. 23.

Schaefer, Henry: *See*—
Elkins, Lloyd E., Vincent, and Schaefer.

Schaefer, Walter S.: *See*—
Darner, Frederic M., and Schaefer.

Schaich, Wilbur A., Goodrich, assignor to Dearborn Motors Corporation, Birmingham, Mich. Rear mounted crane. 2,670,175, Feb. 23.

Scherer, John O.: *See*—
Scherer, Robert P. and J. O., and Whipple.

Scherer, R. P., Corporation, assignee: *See*—
Scherer, Robert P. and J. O., and Whipple.

Scherer, Robert P., Detroit, J. O. Scherer, Grosse Pointe, and L. V. Whipple, Berkley, assignors to R. P. Scherer Corporation, Detroit, Mich. Flexible follower for metal ampoules. 2,670,121, Feb. 23.

Scherler, Hermann, Bois-Colombes, France, assignor, by mesne assignments, to Society Usines Tornos, Fabrique de Machines Moutier S. A. Needle bearing. 2,670,253, Feb. 23.

Schenchzer, Auguste, Lausanne, Switzerland. Pneumatic ballast tamper. 2,669,942, Feb. 23.

Schmitz, Ewald, assignor to A. O. Smith Corporation, Milwaukee, Wis. Cover clamp. 2,670,232, Feb. 23.

Schmitz, Joseph, Jr.: *See*—
Drum, Harry S., Liedtke, and Schmitz.

Schneider, Paul L., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Starter control apparatus. 2,670,444, Feb. 23.

Schnerb, Isaac: *See*—
Bloch, Rudolf, Schnerb, and Kaplan.

Schörner, Christian, and M. Rothemünd, assignors to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany. Heat exchange apparatus provided with thermal compensating device. 2,670,185, Feb. 23.

Schowalter, Clarence H., Beloit, Wis., and M. L. Foreman, Hamilton, Ohio, assignors to Fairbanks, Morse & Co., Chicago, Ill. Ambient air control of blower bypasses. 2,669,982, Feb. 23.

Schuck, Oscar H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control signal modifying means in radio controlled flight. 2,670,455, Feb. 23.

Schumacher, Wilhelm: *See*—
Hevna, Johannes, and Schumacher.

Scott, Charles H., Westport, assignor to The Dorr Company, Stamford, Conn. Sediment raking mechanism for longitudinal settling tanks. 2,670,080, Feb. 23.

Scovill Manufacturing Company, assignee: *See*—
Hormann, Frank R.

Scudi, John V., and G. F. Grail, Bronx, assignors to Nepera Chemical Co. Inc., Yonkers, N. Y. N-alpha-naphthyl N,N',N',-trialkylethylene diamines. 2,670,376, Feb. 23.

Scullin Steel Co., assignee: *See*—
Spenner, Fred H.

Scully, John T., New York, N. Y. Safety razor. 2,669,777, Feb. 23.

Searl, Alonzo H.: *See*—
Moore, Donald W., and Searl.

Searle, G. D., & Co., assignee: *See*—
Cusic, John W.

Seddon, Robert M., Walmley, Sutton Coldfield, assignor to Dunlop Rubber Company Limited, London County, England. Resilient suspension springs. 2,670,200, Feb. 23.

Seeger, Doris R.: *See*—
Kuh, Erwin, and Seeger.

Segesser, John R.: *See*—
Hunter, Melvin V., and Segesser.

Seidenberg, Henry, assignee: *See*—
Mueller, Herman H.

Senior, William J.: *See*—
Szaloki, Zoltan, Senior, and Knowles.

Shaffer, William H., Birch Run, and W. Stenger, Bridgeport, Mich. Vehicle steering wheel locking device. 2,669,882, Feb. 23.

Shakesby, Leonard, and F. L. Sainsbury, assignors to Canada Cycle and Motor Company Limited, Weston, Ontario, Canada. Crankcase of bicycle frame. 2,670,219, Feb. 23.

Shannon, Joseph, Beaumont, Tex. Submerged well drilling equipment anchoring means. 2,669,846, Feb. 23.

Shapiro, Justin J., Hyattsville, assignor to American Instrument Company, Inc., Silver Spring, Md. Apparatus for measuring the melting point of fusible materials. 2,669,863, Feb. 23.

Shaw, Curtis B.: *See*—
Zinn, Julius A., Jr., and Shaw.

Sheadel, John M., Barberton, and J. J. Taylor, Wadsworth, assignors to The Ohio Brass Company, Mansfield, Ohio. Lightning arrester. 2,670,398, Feb. 23.

Sheley, Wayne H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Apparatus for machining and internal cylindrical surface. 2,669,888, Feb. 23.

Shell Development Company, assignee: *See*—
Crake, Wilfred S.
Fetterly, Lloyd C.
McKinney, Howard E.

Sherman, Kenneth C., New London, assignor to Electric Boat Company, Groton, Conn. Pin setting machine for bowling alleys. 2,670,205, Feb. 23.

Shields, Charles B., Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company. Cab signal apparatus. 2,670,433, Feb. 23.

Shnelder, Harold M., Stamford, Conn., assignor to Baldwin-Lima-Hamilton Corporation. Universal materials testing machine. 2,669,868, Feb. 23.

Shockley, Joseph B., Detroit, Mich. Delayed-action switch. 2,670,413, Feb. 23.

Shoucair, Edward, Cairo, Egypt. Friction reducing device. 2,669,989, Feb. 23.

Shull, George O., and R. B. Murrow, Los Angeles, Calif. Safety device. 2,669,929, Feb. 23.

Siemer, Carleton A.: *See*—
Rossheim, David B., Doane, and Siemer.

Sigler, George, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Textile bleach-finish process. 2,670,266, Feb. 23.

Singmaster & Breyer, assignee: *See*—
Breyer, Frank G., and Delruelle.

Sinks, Russell W., Sidney, Ohio. Crate unloader. 2,670,091, Feb. 23.

Skett, Herbert E., Ellesmere, England. Teat cup for use in connection with milking machines. 2,669,966, Feb. 23.

Skidmore, Richard H., Lyndhurst, Ohio. Gear reduction unit. 2,669,881, Feb. 23.

Skogstad, George, L. G. Elm, and L. R. Fuller, Minot, N. Dak., said Skogstad and said Elm assignors to said Fuller. Grain door funnel with sliding closure. 2,670,108, Feb. 23.

Slinkard, Raymond L., Cape Girardeau, Mo., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,669,953, Feb. 23.

Sloane, Robert W.: *See*—
Biermann, William A., and Sloane.

Sloane, William W.: *See*—
Bergmann, Ernst R., and Sloane.

Slomer, Joseph J., assignor to Goodman Manufacturing Company, Chicago, Ill. Emergency operated dual pressure hydraulic system. 2,669,842, Feb. 23.

Smith, A. O., Corporation, assignee: *See*—
Blatz, Albert V.
Schmitz, Ewald.

Smith, Alexander, Incorporated, assignee: *See*—
Hutchinson, Robert B.

Smith, Carl F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic tracing cloth. 2,670,288, Feb. 23.

Smith, Drum & Company, assignee: *See*—
Drum, Harry S., Liedtke, and Schmitz.

Smith, Fred R., and J. E. Connolly, Detroit, assignors to Neveroil Products Company, Hamburg, Mich. Spacing device for frictionally opposed bodies. 2,670,199, Feb. 23.

Smith, John J.: *See*—
Duncan, James E., and Smith.

Smith, John J., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Glass composition. 2,669,807, Feb. 23.

Societe d'Electronique et d'Automatisme, assignee: *See*—
Raymond, François H., and Piel.

Societe des Produits Chimiques de Clamecy, assignee: *See*—
Charles, Ernest.

Societe des Usines Chimiques Rhone-Poulenc, assignee: *See*—
Jacob, Robert M.

Societe Francaise Radio-Electrique, assignee: *See*—
Chireix, Henri.

Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, assignee: *See*—
Bertin, Jean H., and Paris.
Marchal, Raymond H., and Fabre.

Society Usines Tornor, Fabrique de Machines Moutier S. A., assignee: *See*—
Scherler, Hermann.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Covington, James D.
Mayes, George C., and Koch.

Soisson, Camille, Rodange, Luxembourg. Refining steel. 2,670,283, Feb. 23.

Sorrentino, Vincent, Providence, R. I., assignor to Uncas Manufacturing Company. Display device for rings and the like for personal wear. 2,670,085, Feb. 23.

Sound City (Films) Limited, assignee: *See*—
Bell, Percy F.

Spalding, William L., Fort Worth, Tex., assignor to American Cyanamid Company, New York, N. Y. Spray drying. 2,670,036, Feb. 23.

Sparks-Withington Company, assignee: *See*—
Best, Cleafe A., and Johnson.

Spaulding, Harry L., W. E. Gladstone, Jr., and M. Markovich, Washington, D. C. Tag attachment device. 2,669,795, Feb. 23.

Specialties Development Corporation, assignee: *See*—
Heizer, Edward J.

Spence, Thomas C.: *See*—
Stanton, George W., and Spence.

Spenner, Fred H., assignor to Scullin Steel Co., St. Louis, Mo. Railway truck bolster assembly. 2,669,943, Feb. 23.

Spenner, Fred H., assignor to Scullin Steel Co., St. Louis, Mo. Railway car truck construction. 2,669,944, Feb. 23.

Sperry Corporation, The, assignee: *See*—
Learned, Vincent R.

Spiegelhalter, William G., Erie, Pa., assignor to General Electric Company. Refrigerated cabinet having movable condenser. 2,669,853, Feb. 23.

Spielberg, Arnold M.: *See*—
Naylor, Arthur F., and Spielberg.

Spieth, Benjamin, assignor to Modine Manufacturing Company, Racine, Wis. Multiple flanged fin for heat exchangers and producing individual fins. 2,669,959, Feb. 23.

Spiuvak, Kalman A., Cleveland, Ohio. Extension ladder bracket. 2,670,119, Feb. 23.

Sporlan Valve Co., Inc., assignee: *See*—
Lange, Harold T.

Stacey, Ernest F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for assembling shoe bottom parts. 2,669,734, Feb. 23.

Stackhouse, William V.: *See*—
Torresen, Carel T., and Stackhouse.

Stader, Otto, Ardmore, Pa. Guide clamp for flush valves. 2,669,729, Feb. 23.

Stafford, John W., Hohokus, N. J. Continuous liquid pumping system. 2,669,941, Feb. 23.

Stahle, William P., Newport News, Va. Fishing rod holder. 2,670,111, Feb. 23.

Standard Oil Company, assignee: *See*—
Lien, Arthur P., and Johnson.

Standard Oil Development Company, assignee: *See*—
Hemminger, Charles E.
Krebs, Robert, and Voorhies.
Watts, Rhea N., and Gray.

Stanolind Oil and Gas Company, assignee: *See*—
Cain, Donald G., Goddin, and Caruthers.
Elkins, Lloyd E., Vincent, and Schaefer.
Frye, Clifton G.
Grekel, Howard, Pace, and Ireland.
Menaul, Paul L.

Stanton, George W., Walnut Creek, and T. C. Spence, Concord, Calif., assignors to The Dow Chemical Company, Midland, Mich. Wet spinning of polyacrylonitrile from salt solutions. 2,670,268, Feb. 23.

Stark, Fortney H., Wauwatosa, Wis. Food product flavoring composition and preparation thereof. 2,670,293, Feb. 23.

Stayner, Richard D.: *See*—
Filatoff-Rocq, Pierre, and Stayner.
Lewis, Allen H., and Stayner.

Steatite Research Corporation, assignee: *See*—
Albers-Schoenberg.

Steele, Richard E.: *See*—
Blackburn, Andrew R., and Steele.

Stehlik, Rudolph F., Antwerp, Belgium, assignor to Automatic Electric Laboratories Inc., Chicago, Ill. Sorting apparatus. 2,670,087, Feb. 23.

Stehlin, Theodore A., Upland, Calif., assignor to St-West, Inc., Carson City, Nev. Quick-acting shutoff valve having renewable valve seat. 2,670,173, Feb. 23.

Steinbrecker, Freddy, and P. M. Henkes, assignors to George Gorton Machine Co., Racine, Wis. Engraving machine. 2,669,781, Feb. 23.

Steiner, Gertrude, New York, N. Y. Brassière. 2,669,719, Feb. 23.

Stenger, William: *See*—
Shaffer, William H., and Stenger.

Stephens, W. R., Investment Company, Inc., assignee: *See*—
Cottingham, Morrison.

Stevens, Herbert H., Jr., assignor to Walter Balfour & Co., Inc., New York, N. Y. Combined brake and clutch for motor drives. 2,670,065, Feb. 23.

Stevenson, James R.: *See*—
Brock, Harold L., and Stevenson.

Stieglitz, Henry C., assignor to Thompson Products, Inc., Cleveland, Ohio. Index corrector. 2,669,911, Feb. 23.

Stilwell, Glenn E., Riverside, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Machine for making hexagonal boxes. 2,669,715, Feb. 23.

Stiteler, William M., Camp Hill, Pa. Fisherman's fly box. 2,669,799, Feb. 23.

Stofer, Willard E.: *See*—
Heller, Herman S., and Stofer.

Stone, H. N., assignor to Norton Company, Worcester, Mass. Gas heater. 2,670,425, Feb. 23.

Stone, H. N., assignor to Norton Company, Worcester, Mass. Gas heater. 2,670,426, Feb. 23.

Stoughton, Roger W., assignor to Mallinckrodt Chemical Works, St. Louis, Mo. Preparation of an isomer of amidone. 2,670,375, Feb. 23.

Stowitts, Frank H., assignor to Michigan Carton Company, Battle Creek, Mich. Carton. 2,670,128, Feb. 23.

Strathmore Company, The, assignee: *See*—
Watkins, James W.

Straubel, Clarence W., assignor to The General Fireproofing Company, Youngstown, Ohio. Front leaf control for tilting front filing drawers. 2,669,994, Feb. 23.

Strickland, George, St. Catherines, Ontario, Canada, assignor to American Flange & Manufacturing Co. Inc., New York, N. Y. Closure means for containers. 2,670,097, Feb. 23.

Stromberg-Carlson Company, assignee: *See*—
Elliott, George.
Green, George K.

Studebaker Corporation, The, assignee: *See*—
Hasbany, Woodrow A.

Sugar Research Foundation, Inc., assignee: *See*—
Scattergood, Allen.

Susil, Anton J., Edna, Tex. Automobile window armrest. 2,670,235, Feb. 23.

Sutherland, Frederick F., Cumberland, Md., assignor to Celanese Corporation of America. Textile apparatus. 2,670,154, Feb. 23.

Swaine, William G., Brentwood, assignor to Aluminum Foil Packaging Co., St. Louis, Mo. Making metal foil pans. 2,669,914, Feb. 23.

Sweeney, Charles W., assignor of 15 per cent to J. R. Hague, Columbus, Ohio. Welder's work-holding appliance. 2,669,958, Feb. 23.

Sweetman, William G., Houston, Tex. Perforating device for wells. 2,669,928, Feb. 23.

Swift & Company, assignee: *See*—
Hovland, Roger M.

Switzman, Harry: *See*—
Magnan, Lucien and Switzman.

Sylvania Electric Products Inc., assignee: *See*—
Hecht, Benjamin P., and Koury.
Mitchell, Charles R.

Szaloki, Zoltan, and W. J. Senior, Oldham, and A. Knowles, West Gorton, Manchester, assignors to T. M. M. (Research) Limited, Helmshore, Rossendale, England. Doffing mechanism for lap-forming machines. 2,669,756, Feb. 23.

Szegho, Constantin S., W. O. Reed, and M. E. Amdursky, Chicago, Ill., assignors to The Rauland Corporation. Producing low-glare cathode-ray tubes. 2,670,279, Feb. 23.

"T. I. M." (Ticket-Issue Machines) Limited, assignee: *See*—
Ford, Harold F.

T. M. M. (Research) Limited, assignee: *See*—
Szaloki, Zoltan, Senior, and Knowles.

Tanko, Kalman: *See*—
Masheris, Fred A., and Tanko.

Tansley, Leslie R., Worthington, assignor to White Castle System, Inc., Columbus, Ohio. Producing quick-freezing and quick-cooking meat patties. 2,670,296, Feb. 23.

Tao, Deh C., Akron, assignor to Portage Machine Co., Summit County, Ohio. Boring bar. 2,669,890, Feb. 23.

Tardy, René, Rouen, France. Spectacles. 2,669,903, Feb. 23.

Taylor, John J.: *See*—
Sheadel, John M., and Taylor.

Teeter, Howard: *See*—
Croston, Clarence B., Teeter, and Cowan.

Teeters, Wilber O.: *See*—
Passino, Herbert J., Teeters, and Mantell.

Tetrick, Paul D.: *See*—
Mercola, Archibald A., and Tetrick.

Texas Company, The, assignee: *See*—
Glassmire, William F., and Phillips.
Herzog, Gerhard.
Rosenthal, Robert W., and Naragon.

Textile Trimming and Boarding Machine Company, assignee: *See*—
Auton, Claud C.

Thomas, Edward B.: *See*—
Allan, John, and Thomas.

Thomas, Helen T., Montclair, N. J. Adjustable collar. 2,669,723, Feb. 23.

Thomas, Maurice A. E., La Louviere, Belgium. Apparatus for reducing the friction of water on the hull of a ship. 2,669,961, Feb. 23.

Thompson, Ada H., assignee: *See*—
Haughy, James C.

Thompson, Elmer O., Grasmere, N. Y., assignor to Philco Corporation, Philadelphia, Pa. Phonograph apparatus. 2,670,210, Feb. 23.

Thompson, Harry E., Steubenville, Ohio. Air compensator for gas burners. 2,670,034, Feb. 23.

Thompson Products, Inc., assignee: *See*—
Stieglitz, Henry C.

Thompson, Ralph B., Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Reduction of alkyl nitroaromatic compounds. 2,670,377, Feb. 23.

Thompson, Tom H., assignor of one-half to C. Creighton, Daytona Beach, Fla. Seal for cans. 2,670,098, Feb. 23.

Thomsen, Alfred M., San Francisco, Calif. Recovering metal values from leach liquors. 2,670,271, Feb. 23.

Tillotson Manufacturing Company, The, assignee: *See*—
Phillips, Bernard C.

Tillson, Edwin D., Evanston, assignor to Lighting Products, Inc., Highland Park, Ill. Electric lighting fixture. 2,670,429, Feb. 23.

Toland, William G., Jr., San Rafael, assignor to California Research Corporation, San Francisco, Calif. Oxidation of certain heterocyclic compounds. 2,670,370, Feb. 23.

Tonkin, Albert, assignor of one-half to M. S. Hedeen, St. Paul, Minn. Medical oscillator. 2,669,987, Feb. 23.

Topor, Jacob, Wheeling, W. Va. Reed for musical instruments. 2,669,897, Feb. 23.

Torresen, Carel T., Santa Monica, and W. V. Stackhouse, Torrance, Calif. Die collapsed anchor nut. 2,670,021, Feb. 23.

Totzek, Friedrich, Essen (Ruhr), Germany, assignor to Koppers Company, Inc., Pittsburgh, Pa. Method and apparatus for producing combustible gases from powdered fuels. 2,670,280, Feb. 23.

Toulmin, Harry A., Jr., assignor to New Wrinkle, Inc., Dayton, Ohio. Composition for producing wrinkle-textured films. 2,670,337, Feb. 23.

Tracerlab, Inc., assignee: *See*—
Pennock, John C., and Bacchieri.

Treacy, John G., assignee: *See*—
Hammesfahr, Willi.

Treshow, Michael, Pacific Palisades, assignor to Monolith Portland Cement Company, Los Angeles, Calif. Screening discharge device for rod and ball mills. 2,670,139, Feb. 23.

Tribbett, Murray C., assignor to H-P-M Development Corporation, Mount Gilead, Ohio. Adjustable bearing guide for lineally movable shafts. 2,670,251, Feb. 23.

Trotman, William E. K., London, England. Cylinder mold for use in papermaking. 2,669,910, Feb. 23.

Troy, Arnold L., Scarsdale, N. Y. Disposable filter and holder. 2,669,995, Feb. 23.

Trubenised (Great Britain) Limited, assignee: *See*—
Lobbenberg, Hans.

Tuboscope Company, assignee: *See*—
Price, Berry G.

Tucker, Warren R., assignor to H-P-M Development Corporation, Mount Gilead, Ohio. Hydraulically actuated shift control for hydraulic pumps. 2,669,935, Feb. 23.

Tully, John N.: *See*—
Olson, Carl M., and Tully.

Turkish, Michael C.: *See*—
Oldberg, Sidney, and Turkish.

Turner, Edwin E., West Roxbury, assignor to Raytheon Manufacturing Company, Newton, Mass. Magnetostrictive transducer. 2,670,446, Feb. 23.

Turner, William Y., Chicago, Ill. Golf practice sighting device. 2,669,782, Feb. 23.

Tuttle, Harry C., New York, N. Y. Voice muffler. 2,670,054, Feb. 23.

Uncas Manufacturing Company, assignee: *See*—
Sorrentino, Vincent.

Ungar, Gustave A., deceased, late of New Rochelle, N. Y., by I. Ungar, administratrix, New Rochelle, N. Y., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Apparatus for making honeycomb cores for sandwich-type structures. 2,670,026, Feb. 23.

Ungar, Gustave A., deceased, New Rochelle, N. Y., I. Ungar, administratrix of said G. A. Ungar, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Making honeycomb cores for sandwich-type structures. 2,670,314, Feb. 23.

Ungar, Irma, administratrix: *See*—
Ungar, Gustave A.

Union Carbide and Carbon Corporation, assignee: *See*—
Groff, Frazier, and Bassett.

United-Carr Fastener Corporation, assignee: *See*—
Becker, Philip D.

United Shoe Machinery Corporation, assignee: *See*—
Juhola, Carl.
Slinkard, Raymond L.
Stacey, Ernest F.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Davis, Milton W., Jr.
Godbold, Nat H.
Gordon, Carroll M., and Corum.
Kelley, George G.

United States Time Corporation, The, assignee: *See*—
Harris, Wilbur T., Pegram, Brazee, and Hummel.

Universal Oil Products Company, assignee: *See*—
Adams, George F.
Kassel, Louis S.
Pines, Herman, and Ipatieff.
Thompson, Ralph B.

Universal Winding Company, assignee: *See*—
Goodhue, William V., and Verrier.

University of Notre Dame Du Lac, assignee: *See*—
Howerton, Murlin T.

Unneland, Oscar, Brooklyn, N. Y. Removable hanger for floor beam forms. 2,669,763, Feb. 23.

Upjohn Company, The, assignee: *See*—
Murray, Herbert C., and Peterson.

Valyi, Emery I., Bronx, N. Y. Mold forming machine. 2,669,758, Feb. 23.

Valyi, Emery I., Bronx, N. Y. Mold ejecting mechanism for mold-forming machines. 2,669,759, Feb. 23.

Vandekerck, Margaret, Detroit, Mich. Perspiration shield. 2,669,720, Feb. 23.

Van Deusen, Werter P.: *See*—
Minsk, Louis M., Van Deusen, and Robertson.

Van de Walle, Charles: *See*—
Van de Walle, Edmond, C. Van de Walle, and Bonnefoy.

Van de Walle, Edmond, Neuilly-sur-Seine, C. Van de Walle, Paris, and E. Bonnefoy, La-Varenne-Saint-Hilaire, France. Feeder for molten glass. 2,669,806, Feb. 23.

Venus, Willibald, Munich, assignor to Hahn & Kolb, Stuttgart-N, Germany. Die or press casting machine. 2,669,760, Feb. 23.

Verbanc, John J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Vulcanizing polychloroprene. 2,670,342, Feb. 23.

Verrier, Arthur N.: *See*—
Goodhue, William V., and Verrier.

Viall, Wilton S., Jr.: *See*—
Anderson, James N., and Viall.

Vicars, T. & T. Limited, assignee: *See*—
Naylor, Joseph F.

Vickers, Richard N., Smackover, Ark. Deep well pump. 2,669,939, Feb. 23.

Victor Industries Corporation, assignee: *See*—
Drew, Harry A.

Vigmostad, Trygve: *See*—
Doty, Clifford B., and Vigmostad.

Vignere, Leonard, Sr., Salem, Ohio. Oil gas generator-burner. 2,670,032, Feb. 23.

Vik, Albam M., Karlstad, Minn. Guard finger and ledger plate. 2,669,831, Feb. 23.

Vincent, Renic P.: *See*—
Elkins, Lloyd E., Vincent, and Schaefer.

Volker, Alois, assignor to Rosenkaimer & Cie., Leichlingen, Germany. Telescopic umbrella. 2,670,133, Feb. 23.

Voorhies, Alexis, Jr.: *See*—
Krebs, Robert W., and Voorhies.

Votta, Frank A., Jr.: *See*—
Glaser, Leo B., and Votta.

Voumard, Bertrand P., and W. H. Nicolet, La Chaux-de-Fonds, Switzerland. Means for weaving ribbons, tapes, bands, and the like. 2,670,012, Feb. 23.

Wabnitz, George H., Rochester, N. Y. Paint tray for roller applicators. 2,669,736, Feb. 23.

Wadington, John P., Keyport, N. J., assignor to National Lead Company, New York, N. Y. Preparation of titanium chloride acetate powder material. 2,670,363, Feb. 23.

Wales, George F., Kenmore, N. Y. Light transmitting checker piece. 2,670,208, Feb. 23.

Walker, Brooks, assignee: *See*—
Hunter, Edwin J.

Ware, Le Roy, Richmond, assignor to Perfect Circle Corporation, Hagerstown, Ind. Machine for making shims. 2,669,891, Feb. 23.

Watkins, James W., assignor to The Strathmore Company, Aurora, Ill. Writing device. 2,669,791, Feb. 23.

Watrous, Winston S., Milwaukee, Wis. Lawn mower of the rotating sickle type. 2,669,826, Feb. 23.

Watt, Loyd B., Spokane, Wash. Support means for serving trays. 2,670,260, Feb. 23.

Watts, Rhea N., and C. F. Gray, Baton Rouge, La., assignors to Standard Oil Development Company. Hydrocarbon synthesis process. 2,670,365, Feb. 23.

Webb, Francis H., Pasadena, Calif. Water softening apparatus. 2,670,328, Feb. 23.

Weber, Milton N., assignor of one-half to H. W. Link, Detroit, Mich. Apparatus for gauging consumption of oil or other liquid. 2,669,869, Feb. 23.

Weinand, Klaus, assignor to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany. Anthraquinone dyestuffs. 2,670,356, Feb. 23.

Weinberg, Marvin, New York, N. Y. X-ray diagnostic apparatus. 2,670,401, Feb. 23.

Welden, William A., Stamford, Conn., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Teakettle having a manually operated lid for the pouring opening. 2,670,107, Feb. 23.

Wellendorf, William F., Ida Grove, Iowa. Record summary and diary device. 2,670,221, Feb. 23.

Wells, Floyd Company, The, assignee: *See*—
Saponara, Domenick.

Wells, Richard D., Auburn, Maine, assignor to Bates Manufacturing Company. Automatic product display device. 2,669,790, Feb. 23.

Werner, Fred E.: *See*—
Newcomb, Howard L., Werner, Myers, and Laetari.

West, Herbert J., Pittsburgh, and K. Goodemoot, Bridgeville, Pa., assignors to American Cyanamid Company, New York, N. Y. Distillation purification of phthalic anhydride. 2,670,325, Feb. 23.

West, Oscar A., Indianapolis, Ind. Shield means for pilot burners and thermocouple of gaseous fuel burners. 2,670,394, Feb. 23.

Western Electric Company, Incorporated, assignee: *See*—
Brewer, Robert F.
Henderson, Clifford W.

Westinghouse Air Brake Company, assignee: *See*—
Bone, Herbert L.
Gracey, William R., Jr.
Groenendale, Henry J.
Shields, Charles B.

Westinghouse Electric Corporation, assignee: *See*—
Brock, John E., and Zanotti.
Freeman, George A., Bellott, and Fraser.
Freeman, George A., and Jenkins.
Saboe, Michael S.

Weston Electrical Instrument Corporation, assignee: *See*—
Gilbert, Roswell W.

Wetzig, Ernest L., Sr., Carrizo Springs, Tex. Tractor contour level. 2,669,787, Feb. 23.

Wexler, David J., Islip Terrace, N. Y. Indicator for designation strip holder. 2,669,964, Feb. 23.

Whipple, Leon V.: *See*—
Scherer, Robert P. and J. O., and Whipple.

White Castle System, Inc., assignee: *See*—
Haegele, Otto P.
Tansley, Leslie R.

White, Roby B., Jr., Irving, Tex. Switch. 2,670,414, Feb. 23.

Whitesell, Denham A., Staunton, Va. Foldable wheel dolly. 2,670,092, Feb. 23.

Whitin Machine Works, assignee: *See*—
Joyce, Glover C.

Whitmore, Allen H.: *See*—
Barlet, Stewart J., and Whitmore.

Whitney, Donald S.: *See*—
Bloomfield, Benjamin, and Whitney.

Wickardt, Kurt W., assignor to Hosemaster Machine Company Limited, Liverpool, England. Straight bar knitting machine. 2,669,854, Feb. 23.

Wiemer, Hermann K., Wallington, England. Apparatus for the production of chocolate pastes ready for subsequent treatment on roll refiners. 2,669,924, Feb. 23.

Wildebour, Charles W., Seattle, Wash. Means for striping and ribboning ice cream. 2,669,945, Feb. 23.

Wilkening Manufacturing Company, assignee: *See*—
Pien, Hsia-Si.

Will-Burt Company, The, assignee: *See*—
Furth, Jacob R.

Williams, Earl C., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Washing machine with induction motor drive. 2,669,856, Feb. 23.

Williams, John E., Linwood, N. J. Differential electronic amplifier. 2,670,410, Feb. 23.

Williams, Robert F.: *See*—
Malm, Carl J., and Williams.

Willrich, Carlton J., Jr.: *See*—
Reddy, Virgin C., and Willrich.

Willson Products, Inc., assignee: *See*—
Wiswesser, William J.

Wilson, Robert M., assignor to Dare Products, Incorporated, Battle Creek, Mich. Packaged fence post assembly. 2,670,075, Feb. 23.

Wilson, Theodore J., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Instrument landing apparatus and method. 2,670,454, Feb. 23.

Wilson, Thomas C., Inc., assignee: *See*—
Dunton, Stanley N.

Winberg, Ferdinand F., Holden, Mass. Surface cleaning tool. 2,669,739, Feb. 23.

Wiswesser, William J., Kutztown, assignor to Willson Products, Inc., Reading, Pa. Making filter material. 2,670,305, Feb. 23.

Wittmann, Robert A., Chicago, Ill. Safety control system for gas burners employing single point ignition. 2,670,035, Feb. 23.

Wood, Gar, Industries, Incorporated, assignee: *See*—
Bayles, Fred R.

Woodward Governor Company, assignee: *See*—
Parker, George E.

Wuellner, Joseph F.: *See*—
Johnson, Gordon H., and Wuellner.

Wuensch, Guido, H. Ziegler, and H. Caspar, Berlin, Germany, assignors to Askania-Werke A.-G. Liquid level meter. 2,669,875, Feb. 23.

Wünsch, Guido, and H. Ziegler, Berlin, Germany, said Wünsch assignor to Askania-Werke A.-G. Measuring and transmitting device for flow velocities and the like. 2,670,464, Feb. 23.

Yarrington, Harold E., Eau Claire, Wis., assignor to National Presto Industries, Inc. Two-cylinder crankcase compression engine. 2,669,980, Feb. 23.

Yonkers, Edward H., Glencoe, and R. F. Huber, Evanston, assignors to Joslyn Mfg. & Supply Co., Chicago, Ill. Protective device. 2,670,452, Feb. 23.

Young, Richard E., Rockville Centre, N. Y. Making a ring of a length of thermoplastic material. 2,670,313, Feb. 23.

Young, Samuel D., Rugby, England. Closing means for securing closures on containers. 2,670,118, Feb. 23.

Zanotti, Dominick: *See*—
Brock, John E., and Zanotti.

Zerbe, Richard O.: *See*—
Downey, Paul M., and Zerbe.

Ziegler, Horst: *See*—
Wuensch, Guido, Ziegler, and Caspar.
Wünsch, Guido, and Ziegler.

Ziegler, Horst, Berlin, Germany, assignor to Askania-Werke A.-G. Fluid flow metering and integrating instrument and the like, with zero stabilizer. 2,669,874, Feb. 23.

Ziegler, John A., assignor to Canadian Breweries Limited, Toronto, Ontario, Canada. Refining vegetable oils in miscella. 2,670,362, Feb. 23.

Zimmerman, William H., San Bernardino, Calif. Brush attachment for phonograph pickup arms. 2,670,213, Feb. 23.

Zinn, Julius A., Jr., and C. B. Shaw, Chicago, Ill., said Shaw assignor to said Zinn. Method of and apparatus for closing and sealing containers. 2,669,815, Feb. 23.

Zuccoli, Guido, Florence, Italy. Means for mounting artificial molar teeth. 2,669,779, Feb. 23.

Zvanut, Carl M., Alton, assignor to Olin Industries, Inc., East Alton, Ill. Production of nonferrous alloys. 2,670,284, Feb. 23.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF FEBRUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Armor shield for projectile type fastening. R. K. Baisch. Re. 23,786, Feb. 23.
Apparatus for coating strip material. H. L. Davis. Re. 23,787, Feb. 23.
Borides, Mixed. H. R. Montgomery. Re. 23,789, Feb. 23.
Control of independently variable characteristics, Method and means for. F. P. Strother. Re. 23,790, Feb. 23.
Washing aluminum kitchen utensils. E. W. Detjen. Re. 23,788, Feb. 23.

LIST OF PLANT INVENTIONS

Raspberry plant. R. Romy. 1,258, Feb. 23.
Rose plant. W. E. Lammerts. 1,259, Feb. 23.

LIST OF DESIGN INVENTIONS

Antenna, Indoor television. S. Rutter. 171,560, Feb. 23.
Ash tray. A. J. Brown. 171,527, Feb. 23.
Broiler and brazier, Combination. D. S. Harrel. 171,542, Feb. 23.
Brush. C. M. Del Mas. 171,532, Feb. 23.
Brush. A. R. Racicot. 171,556, Feb. 23.
Carriage. H. K. Bergmann. 171,525, Feb. 23.
Circulator, Floor type air. R. Podall. 171,555, Feb. 23.
Container, Cosmetic and medicine. S. Cramer. 171,531, Feb. 23.
Cooler, Water. J. A. Canter. 171,528, Feb. 23.
Couch, Burial. W. J. Cherry. 171,529, Feb. 23.
Decanter. R. E. Hennessy. 171,543, Feb. 23.
Decanter or similar article. O. Grun. 171,540, Feb. 23.
Dispenser casing, Tape. E. E. Lakso. 171,546, Feb. 23.
Dispenser, Medicament. I. J. Gershen. 171,538, Feb. 23.
Escutcheon plate for television receivers. R. C. Marholz. 171,548, Feb. 23.
Fabric, Embroidered. M. H. Ehrman. 171,533, Feb. 23.
Fabric, Textile. P. P. Chiarelli. 171,530, Feb. 23.
Fabric, Textile. J. J. Petroske. 171,552, Feb. 23.
Filter sheath. K. A. Van Dyck. 171,564, Feb. 23.
Font, Illuminable. S. W. Hailey. 171,541, Feb. 23.
Glove, Disposable. R. G. Baender. 171,524, Feb. 23.
Holder, Hair clipper. C. E. Babcock. 171,523, Feb. 23.
Holder, Ring. S. Tylon. 171,563, Feb. 23.
Housing for a window ventilator. R. Podall. 171,554, Feb. 23.
Humidifier or the like, Portable. R. Podall. 171,553, Feb. 23.
Lawn sprinkler, Spray type. G. W. Rienks. 171,559, Feb. 23.
Mask, Swim. J. N. Matheson. 171,549, Feb. 23.
Molded pulp insulation member. R. S. French. 171,537, Feb. 23.
Patching machine, Asphalt. W. H. Wylie. 171,566, Feb. 23.
Pillowcase. A. Z. Flanagin. 171,536, Feb. 23.
Pitcher or similar article. D. L. Jocelyn. 171,544, Feb. 23.
Plate or similar article, Dinner. C. H. McKaig. 171,551, Feb. 23.
Rack, Glass. B. J. Zarzana and R. T. Turner. 171,567, Feb. 23.
Razor blade scraper. A. C. Ferguson. 171,534, Feb. 23.
Saw, Electric chain. C. A. Latimer. 171,547, Feb. 23.
Spit unit for roasting, Rotary. J. A. Goodsell. 171,539, Feb. 23.
Stand for television receivers. W. Remstein. 171,557, Feb. 23.
Stand, Television program display. R. A. Johnson. 171,545, Feb. 23.
Stand, Tree. A. E. Rice. 171,558, Feb. 23.
Table, Game. V. E. Brotherton. 171,526, Feb. 23.
Tool for pressure tank cars, Safety. E. E. Wickman. 171,565, Feb. 23.
Tool sheath. M. H. Fisher. 171,535, Feb. 23.
Vehicle, Automotive. C. G. Mayer. 171,550, Feb. 23.
Wheel balancing weight. W. P. Smissen. 171,561, Feb. 23.
Wristband for a wrist watch. E. J. Towle. 171,562, Feb. 23.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF FEBRUARY, 1954

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerator target holder. C. M. Gordon and C. A. Corum. 2,670,440, Feb. 23.
Acetylene peroxides. N. A. Milas. 2,670,384, Feb. 23.
Acoustic delay device. J. P. Eckert, Jr., and J. W. Mauchly. 2,670,459, Feb. 23.
Adjustable vehicle seat. C. B. Doty and T. Vigmostad. 2,670,028, Feb. 23.
Advancing subterranean pipe, Method and apparatus for. L. Ranney. 2,670,180, Feb. 23.
Aerodynamic valve. J. H. Bertin and F. G. Paris. 2,670,011, Feb. 23.
Air compensator for gas burners. H. E. Thompson. 2,670,034, Feb. 23.
Air conditioning system. B. Knepper. 2,669,923, Feb. 23.
Air swept ball and ring pulverizer throat and upper ring construction. W. C. King and L. L. Leach. 2,670,138, Feb. 23.
Alarm system, Burglar. A. R. Harper. 2,670,466, Feb. 23.
Alcohol injection system for deicing aircraft fuel filters and strainers. R. G. Dunn and R. F. Heiser. 2,670,082, Feb. 23.
Alcohol-modified urea-formaldehyde resins, Production of. J. D. Joffe. 2,670,341, Feb. 23.
Alcohols from olefins, Preparing. R. W. Rosenthal and E. A. Naragon. 2,670,385, Feb. 23.
Alkyl phosphites, Production of. A. A. Baker and J. H. Brown. 2,670,368, Feb. 23.
Alpha particle counter. K. G. McKay. 2,670,441, Feb. 23.
Ambient air control of blower by-passes. C. H. Schowalter and M. L. Foreman. 2,669,982, Feb. 23.
Ammeter, Proximity. C. O. Bathgate. 2,670,458, Feb. 23.
Amphibious helicopter landing gear. C. Barr. 2,670,159, Feb. 23.
Amplifier, Differential electronic. J. E. Williams. 2,670,410, Feb. 23.
Amplifier, Regenerative transistor. J. H. Felker. 2,670,445, Feb. 23.
Amplifier, Thermionic. V. J. Cooper. 2,670,409, Feb. 23.
Anchor, Antifouling. C. F. Christie. 2,669,962–3, Feb. 23.
Anchor nut, Die collapsed. C. T. Torresen and W. V. Stackhouse. 2,670,021, Feb. 23.
Anion-exchange resins from aminated aryl acetylene. G.F. D'Alelio. 2,670,334, Feb. 23.
Anion-exchange resins from an aminated alkylene aryl acetylene. G. F. D'Alelio. 2,670,335, Feb. 23.
Anthraquinone dyestuffs. K. Weinand. 2,670,356, Feb. 23.
Apparatus and method for motion-picture color photography. J. G. Capstaff. 2,670,312, Feb. 23.
Apparatus for attaching soles to shoes. C. Juhola. 2,669,735, Feb. 23.
Apparatus for controlling bed depth in conversion systems. A. S. King and W. J. Cross, Jr. 2,670,278, Feb. 23.
Apparatus for crowning containers under vacuum. J. Kantor. 2,670,117, Feb. 23.
Apparatus for cutting fish. R. Baader. 2,669,746, Feb. 23.
Apparatus for electronically locating nerve irritations. J. B. Crawley. 2,669,986, Feb. 23.
Apparatus for gauging consumption of oil or other liquid. M. N. Weber. 2,669,869, Feb. 23.
Apparatus for generating vapor. M. Frisch. 2,669,976, Feb. 23.
Apparatus for irradiating liquids. H. E. Darney. 2,670,439, Feb. 23.
Apparatus for lubricating conveyer belts. W. J. Dobkin. 2,670,069, Feb. 23.
Apparatus for machining an internal cylindrical surface. W. H. Sheley. 2,669,888, Feb. 23.
Apparatus for making honeycomb cores for sandwich-type structures. G. A. Ungar. 2,670,026, Feb. 23.
Apparatus for making variegated ice creams and the like. N. I. Peyton. 2,669,946, Feb. 23.
Apparatus for measuring the melting point of fusible materials. J. J. Shapiro. 2,669,863, Feb. 23.
Apparatus for producing carpet retaining strips. H. L. Newcomb, F. E. Werner, R. J. Myers, and H. Laetari. 2,669,714, Feb. 23.
Apparatus for pumping wells. L. E. Elkins, R. P. Vincent, and H. Schaefer. 2,669,936, Feb. 23.
Apparatus for reducing the friction of water on the hull of a ship. M. A. E. Thomas. 2,669,961, Feb. 23.
Apparatus for removing liquids from perforated rotating shells. J. E. Goodwillie and L. Hornbostel. 2,669,912, Feb. 23.
Apparatus for spreading split bars to circular forms. T. R. Landers. 2,670,025, Feb. 23.
Apparatus for testing oils from gum, varnish, sludge, and corrosion. J. Cole and J. Krawetz. 2,669,865, Feb. 23.
Apparatus for the loading of shaker conveyers. C. N. Bebinger. 2,670,073, Feb. 23.
Apparatus for the production of chocolate pastes ready for subsequent treatment on roll refiners. H. K. Wiemer. 2,669,924, Feb. 23.
Apparatus for thickening liquid slurry stocks. A. G. Gibson. 2,669,909, Feb. 23.
Apparatus for treating gaseous and fluidized powder streams. C. I. Johnsen. 2,669,974, Feb. 23.
Appliance for amphibious warfare. J. N. Laycock. 2,669,960, Feb. 23.
Appliance on typewriting, calculating, or bookkeeping machines for automatically setting a top sheet to a predetermined line. H. and A. Rutishauser. 2,670,068, Feb. 23.
Aralkyl phenols as antioxidants. H. J. Kehe. 2,670,340, Feb. 23.
Armature coil lead staker. J. S. Burge, H. J. McKee, and W. M. Rider. 2,669,771, Feb. 23.
Arrangement in air blast circuit breakers. H. Forwald. 2,670,420, Feb. 23.
Article forming apparatus. C. W. Henderson. 2,669,811, Feb. 23.
Article of furniture, Reclining. F. Richardson. 2,670,030, Feb. 23.
Article of headwear, Paper. O. P. Haegele. 2,669,725, Feb. 23.
Artificial hand. T. Opuszenski. 2,669,727, Feb. 23.
Artificial limb socket or boot. E. S. Ritchie. 2,669,728, Feb. 23.
Assembly press. G. R. Eckstein. 2,669,898, Feb. 23.
Attachment for vibratory screens. F. K. Betts, III. 2,670,079, Feb. 23.
Attitude indicator. E. E. Lynch. 2,669,786, Feb. 23.
Attrition mill. O. C. Gruender. 2,670,142, Feb. 23.
Automatic frequency control circuit. G. W. Fyler. 2,670,438, Feb. 23.
Automobile-body heater. E. Ludlow. 2,670,184, Feb. 23.
Automobile clothes hanger support. L. M. Kohlbeck. 2,670,112, Feb. 23.
Autotransformer starter. A. J. Dawe, L. H. Matthias, and W. A. De Smidt. 2,670,411, Feb. 23.
Axis control for guided missiles. L. R. Philpott. 2,670,158, Feb. 23.
Ball swivel, tripod assembly head. R. J. Pagliuso. 2,670,228, Feb. 23.
Ballast tamper, Pneumatic. A. Scheuchzer. 2,669,942, Feb. 23.
Basement clothesline hanger. E. J. Corpeny. 2,670,169, Feb. 23.
Basic alkyl substitution products of N-indanyl and N-tetrahydronaphthyl-monocarbocyclylamides and their salts. J. W. Cusic. 2,670,371, Feb. 23.
Basically substituted derivatives of N-aralkylcycloalkylalkanamides and their salts. J. W. Cusic. 2,670,349, Feb. 23.
Bearing: *See*—
Needle bearing.
Bearing guide for lineally movable shafts, Adjustable. M. C. Tribbett. 2,670,251, Feb. 23.
Bed or bunk, Folding. J. W. Martin. 2,669,731, Feb. 23.
Belt, Personal. M. A. Hruby. 2,669,990, Feb. 23.
Bicapsular grip for pivoted surgical instruments. P. D. Ciurutchet. 2,669,993, Feb. 23.
Bit: *See*—
Bridle bit.
Bituminous emulsions, Manufacture of. P. E. McCoy. 2,670,304, Feb. 23.
Bobbin handling mechanism. W. L. Perry and J. E. Ring. 2,670,150, Feb. 23.
Bolster assembly, Railway truck. F. H. Spenner. 2,669,943, Feb. 23.
Bolt construction, Safety. S. N. Dunton. 2,670,099, Feb. 23.
Boring bar. D. C. Tao. 2,669,890, Feb. 23.
Bottle holder. R. A. Dominguez. 2,670,165, Feb. 23.
Box: *See*—
Fisherman's fly box.
Bracket: *See*—
Extension ladder bracket.
Scaffold bracket.
Venetian blind installation bracket.
Brake: *See*—
Parking brake.

Brake adjuster, Automatic. G. C. Link. 2,670,059, Feb. 23.
Brake and clutch for motor drives, Combined. H. H. Stevens, Jr. 2,670,065, Feb. 23.
Brake lever assembly. C. R. Duncan. 2,669,883, Feb. 23.
Brake lever assembly, Straight pull. R. A. Sandberg. 2,669,884, Feb. 23.
Brake shoe adjuster. J. P. Landrum. 2,670,058, Feb. 23.
Braking system for road vehicles, Hydromechanical. A. W. Ellcock. 2,670,057, Feb. 23.
Brassière. G. Steiner. 2,669,719, Feb. 23.
Bridle bit. J. M. O'Donnell. 2,669,817, Feb. 23.
Brush attachment for phonograph pickup arms. W. H. Zimmerman. 2,670,213, Feb. 23.
Brush with soap supply. P. S. Kusznir. 2,669,738, Feb. 23.
Building panels and making, Hollow plaster. P. F. Bell. 2,669,860, Feb. 23.
Building unit, Wall. E. S. Clutter. 2,669,861, Feb. 23.
Cabin pressure control instrument. B. E. Del Mar. 2,669,922, Feb. 23.
Cabin pressure regulator. B. E. Del Mar. 2,669,921, Feb. 23.
Cabinet for loudspeakers and the like. B. Doms. 2,670,053, Feb. 23.
Cable connector. R. E. Hower and A. Kuntz. 2,669,761, Feb. 23.
Cable reeling mechanism. R. T. Hair. 2,670,153, Feb. 23.
Can filling machine. W. J. Dobbins, 3rd. 2,670,114, Feb. 23.
Cap selecting and feeding means. H. A. Drew. 2,670,077, Feb. 23.
Carton. W. P. Frankenstein. 2,670,123, Feb. 23.
Carton. W. P. Frankenstein. 2,670,125–6, Feb. 23.
Carton. F. H. Stowitts. 2,670,128, Feb. 23.
Carton and crate lifting attachment. A. V. Blatz. 2,670,095, Feb. 23.
Carton contents tamping and sealing apparatus. H. O. Irmscher. 2,669,813, Feb. 23.
Carton, Folded end-panel. A. W. Gleason and H. M. Bowles. 2,670,127, Feb. 23.
Case: *See*—
Key case.
Catalyzed condensation of aromatic compounds with unsaturated organic compounds. H. Pines and V. N. Ipatieff. 2,670,390, Feb. 23.
Catapult hook mechanism. J. R. Clark, J. W. Coursen, and C. G. Jordan. 2,670,156, Feb. 23.
Cellular material, Manufacturing a. A. Frokjaer-Jensen and A. H. M. Andreasen. 2,670,298–9, Feb. 23.
Cellular thermoplastic products, Production of. J. L. McCurdy and C. E. De Long. 2,669,751, Feb. 23.
Centrifugal countercurrent contact apparatus. W. J. Podbielniak. 2,670,132, Feb. 23.
Centrifuge with interstage washing. R. C. Ried. 2,670,131, Feb. 23.
Chain: *See*—
Power transmission chain.
Charge forming device. B. C. Phillips. 2,670,189, Feb. 23.
Checker piece, Light transmitting. G. F. Wales. 2,670,208, Feb. 23.
Chip breaking device. A. Hiiller. 2,669,889, Feb. 23.
Choline salt of theophylline, Preparing. P. C. Hereld. 2,670,350, Feb. 23.
Chopper, Cross row cotton. W. E. Lawhorn. 2,669,918, Feb 23.
Christmas tree stand. B. W. Armitage. 2,670,163, Feb. 23.
Chuck. R. Fishwick. 2,670,214–15, Feb. 23.
Cigars and preformed fillers therefor, Manufacturing. E. W. Berriman 2,669,996, Feb. 23.
Circuit: *See*—
Automatic frequency control circuit.
Clamp: *See*—
Cover clamp. Welding clamp.
Cleaner: *See*—
Lint cleaner.
Clip: *See*—
Wall base clip.
Clipping and inspection device for hosiery, Internal circular. C. C. Auton. 2,669,765, Feb. 23.
Closing and sealing containers, Method of and apparatus for. J. A. Zinn, Jr., and C. B. Shaw. 2,669,815, Feb. 23.
Closing means for securing closures on containers. S. D. Young. 2,670,118, Feb. 23.
Closure cap and brush dispenser, Combined. C. E. Main. 2,669,740, Feb. 23.
Closure means for containers. G. Strickland. 2,670,097, Feb. 23.
Cloth cutter for cloth spreading machines and having reciprocable cutter disks. R. E. Sayles. 2,670,040, Feb. 23.
Coating shoe. J. A. Cunningham. 2,670,240, Feb. 23.
Coil winding apparatus and power mechanism therefor. C. Johnson. 2,670,144, Feb. 23.
Coin-counting machine. A. R. Buchholz. 2,669,998, Feb. 23.
Coin-counting machine. E. W. Quirk and A. R. Buchholz. 2,669,997, Feb. 23.
Collapsible ironing table. W. L. Anderson. 2,669,794, Feb. 23.
Collar, Adjustable. H. T. Thomas. 2,669,723, Feb. 23.
Combustion apparatus. M. S. Saboe. 2,669,839, Feb. 23.
Complex-forming crystallization process. L. C. Fetterly. 2,670,343, Feb. 23.
Composite wire and rope, Manufacture of. J. H. Chadbourne. 2,669,754, Feb. 23.
Composition and process for dyeing polyethylene terephthalate fibers. H. Luttringhaus and A. A. Arcus. 2,670,263, Feb. 23.
Composition for producing wrinkle-textured films. H. A. Toulmin, Jr. 2,670,337, Feb. 23.
Compound selected from the group consisting of thio bis-[3-methyl-6-(1,1,3,3,-tetramethyl butyl)phenol] and thio bis(3-methyl-6-T-dodecyl phenol). D. J. Beaver and G. L. Magoun. 2,670,383, Feb. 23.
Compressor, Air brake system. E. S. Bloxsom. 2,670,130, Feb. 23.
Computer for multiple ballistics. E. Lakatos. 2,670,134, Feb. 23.
Condenser: *See*—
Continuously variable condenser.
Condition regulating apparatus. G. E. Parker. 2,669,973, Feb. 23.
Conditioning of lined pear waste. R. P. Graham, G. H. Neel, and N. Fishman. 2,670,289, Feb. 23.
Connector: *See*—
Cable connector.
Connector for brooms, brushes, mops, and the like. G. G. Greene, Jr. 2,670,250, Feb. 23.
Construction of figurines. A. Morgan. 2,669,803, Feb. 23.
Container filling. L. F. Goodrich. 2,670,187, Feb. 23.
Continuous production of carbon disulphide, Method and apparatus for the. E. Charles. 2,670,277, Feb. 23.
Continuously variable condenser. E. Leuthold and E. Blum. 2,670,453, Feb. 23.
Control knob and shaft connection. G. K. Green. 2,670,227, Feb. 23.
Control mechanism. E. F. Rossman. 2,670,201, Feb. 23.
Control mechanism and apparatus for an ice eliminating system having inflatable members and heater elements. C. H. MacIntyre. 2,670,161, Feb. 23.
Controlling flow of fluidized solids. R. Pyzel. 2,670,193, Feb. 23.
Conversion of hydrocarbons with a HF catalyst, the reforming of the gasoline fraction and the regeneration of the HF with hydrogen from the reforming zone. L. S. Kassel. 2,670,320, Feb. 23.
Conversion of hydrocarbons with an active silica composited catalyst mixture. J. C. Morrell. 2,670,321, Feb. 23.
Conversion of metals into metal oxides and hydroxides. J. E. Munn. 2,670,273, Feb. 23.
Converting oxygenated organic chemicals in hydrocarbon synthesis. C. G. Frye. 2,670,378, Feb. 23.
Conveyer counter. E. E. Flesner and J. Lynch. 2,670,135, Feb. 23.
Conveyer, Shaker. E. R. Bergmann. 2,670,071, Feb. 23.
Conveyer, Shaker. E. R. Bergmann and W. W. Sloane. 2,670,072, Feb. 23.
Copperable disazo dyestuffs. W. Bossard. 2,670,346, Feb. 23.
Core box vent plugs, Making. E. F. Peterson. 2,669,769, Feb. 23.
Corner pad. G. W. Davidson, A. M. Kupfer, and C. B. Kilmer. 2,670,122, Feb. 23.
Corset. H. Lobbenberg. 2,669,718, Feb. 23.
Cotton picker needle. J. E. Hutchins, Jr., and G. T. Comeaux. 2,669,828, Feb. 23.
Countersinking apparatus. S. E. Rees. 2,669,887, Feb. 23.
Coupling: *See*—
Pipe coupling. Valve float coupling.
Coupling stage for distributed amplifier stages. G. G. Kelley. 2,670,408, Feb. 23.
Cover: *See*—
Wheel cover.
Cover clamp. E. Schmitz. 2,670,232, Feb. 23.
Crane, Rear mounted. W. A. Schaich. 2,670,175, Feb. 23.
Crankcase of bicycle frame. L. Shakesby and F. L. Sainsbury. 2,670,219, Feb. 23.
Crate unloader. R. W. Sinks. 2,670,091, Feb. 23.
Crepe fabric. R. L. Beard. 2,669,766, Feb. 23.
Crib, Baby. H. O. Bystrom. 2,669,730, Feb. 23.
Cupola and charging apparatus therefor. J. N. Richardson. 2,670,088, Feb. 23.
Cutter bit and breaker for mining machines, Drum mounted. F. Cartlidge. 2,670,190, Feb. 23.
Cutting oils. D. P. Clark, Jr. 2,670,330, Feb. 23.
Cutting unit for power weed cutters. R. L. Brownlee. 2,669,827, Feb. 23.
Cycle fork with flattened lower ends, Telescopic tubular. S. Rokahr. 2,670,218, Feb. 23.
Cylinder and power brake valve, Combination master. C. E. Deardorff, W. E. Elder, S. Oaks, and N. J. Bifano. 2,670,004, Feb. 23.
Cylinder mold for use in papermaking. W. E. K. Trotman. 2,669,910, Feb. 23.
Cylinder with variable stop mechanism. J. H. Cross. 2,669,972, Feb. 23.
Dam. E. Freyssinet. 2,669,845, Feb. 23.
Deep well pump. R. N. Vickers. 2,669,939, Feb. 23.
Defrosting control, Automatic refrigerating. M. Fujii. 2,669,848, Feb. 23.
Delayed-action switch. J. B. Shockley. 2,670,413, Feb. 23.

Depolarizers for electric cells, Preparation of. R. Audubert and C. Calmar. 2,670,395, Feb. 23.
Desk enclosure for automatic recorders. W. R. Gracey, Jr. 2,670,262, Feb. 23.
Detection of fluid movement in wells. D. G. Hartweg. 2,669,872, Feb. 23.
Detector for ferrous metal. R. B. Hartman and W. H. Aitken. 2,670,457, Feb. 23.
Device for closing incisions in fowls or the like. A. J. Detaranto. 2,669,747, Feb. 23.
Die or press casting machine. W. Venus. 2,669,760, Feb. 23.
Discharge apparatus for book rounding machines and the like, Automatic. A. Crawley, J. N. Binns, and T. E. Dugle. 2,670,090, Feb. 23.
Dishwashing machine. M. A. Amer. 2,670,000, Feb. 23.
Dishwashing machine. J. O. McMillan. 2,669,999, Feb. 23.
Disk harrow. H. A. Pursche. 2,669,818, Feb. 23.
Dismountable picnic table. F. J. Melges. 2,670,031, Feb. 23.
Dispenser: *See*—
Gummed tape dispenser.
Inanimate cow milk dispenser.
Dispenser for coffee and like material. L. O. Huhn. 2,670,105, Feb. 23.
Dispensing device, Powder. H. La Mers and C. Leicht. 2,670,103, Feb. 23.
Display case with slidable hood, Open top. J. R. Pichler. 2,669,851, Feb. 23.
Display device, Automatic product. R. D. Wells. 2,669,790, Feb. 23.
Display device for rings and the like for personal wear. V. Sorrentino. 2,670,085, Feb. 23.
Display device, Trousers. S. J. Harris. 2,670,110, Feb. 23.
Distillation purification of phthalic anhydride. H. J. West and K. Goodemoot. 2,670,325, Feb. 23.
Doffing mechanism for lap-forming machines. Z. Szaloki, W. J. Senior, and A. Knowles. 2,669,756, Feb. 23.
Doll head, Changeable feature. L. M. G. Olivier. 2,669,802, Feb. 23.
Door-closing device. J. O. Rydberg. 2,669,745, Feb. 23.
Doughnut filling machine. D. D. Baliew. 2,669,947, Feb. 23.
Doughnut making machine. M. Cottingham. 2,669,949, Feb. 23.
Drilling language patterns, Means for. M. G. Buell. 2,669,789, Feb. 23.
Drilling muds and using same. R. V. Jones. 2,670,329, Feb. 23.
Drive for corn pickers. W. J. Dwyer. 2,669,824, Feb. 23.
Drive system for crystal pickups. N. F. Martin. 2,670,407, Feb. 23.
Dump valve. A. S. Parks. 2,670,006, Feb. 23.
Dyeing cellulose esters. R. W. Nebel. 2,670,264, Feb. 23.
Dynamometer, Production. H. L. Bennett. 2,669,870, Feb. 23.
Eaves structure, Nonclogging. G. A. Bartholomew. 2,669,950, Feb. 23.
Effusing device. G. W. Bradburn. 2,670,236, Feb. 23.
Electric arc welding of metal or alloy studs and the like to metal or alloy plates and the like. H. Martin. 2,670,424, Feb. 23.
Electric control for motors. W. H. McElvenny. 2,670,001, Feb. 23.
Electric motor. J. Bell and F. H. Cannon. 2,670,448, Feb. 23.
Electric motor. S. Brice. 2,670,449, Feb. 23.
Electric plug in decade resistance unit. R. V. Baum, C. D. Morrill, and I. B. Osofsky. 2,670,422, Feb. 23.
Electrolytic liquid treating device. C. M. Rader 2,670,327, Feb. 23.
Electromagnetic fluid pump. N. H. Godbold. 2,669,931, Feb. 23.
Electromagnetic wave attenuator. V. R. Learned. 2,670,461, Feb. 23.
Elevator, Tobacco. J. A. Kizis. 2,670,094, Feb. 23.
Emergency operated dual pressure hydraulic system. J. J. Slomer. 2,669,842, Feb. 23.
Engine: *See*—
Internal-combustion engine.
Two-cylinder crankcase compression engine.
Engine control and synchronization system. J. D. Peterson. 2,670,157, Feb. 23.
Engine cooling system. A. J. Hovde and W. E. Brill. 2,669,978, Feb. 23.
Engraving machine. F. Steinbrecker and P. M. Henkes. 2,669,781, Feb. 23.
Establishing substantially uniform flow rate in conduits and the like, Means for. T. P. Kessler. 2,670,010, Feb. 23.
Esters of alkanephosphonic acids, Preparation of. A. H. Lewis and R. D. Stayner. 2,670,367, Feb. 23.
Extension ladder bracket. K. A. Spluvak. 2,670,119, Feb. 23.
Extraction of oleaginous materials from solid substances. G. F. Adams. 2,670,317, Feb. 23.
Extractive distillation process. H. Grekel, B. S. Pace, and J. D. Ireland. 2,670,324, Feb. 23.
Extrusion filling of containers with ice cream and other similar semi-plastic food substances, Method and apparatus for the. F. M. Johansen. 2,670,116, Feb. 23.
Fabric: *See*—
Crepe fabric.
Fastening device. P. D. Becker. 2,670,226, Feb. 23.
Feed control for tape-dispensing devices. A. P. Krueger and O. P. Erhardt. 2,670,043, Feb. 23.
Feeder for molten glass. E. and C. Van de Walle, and E. Bonnefoy. 2,669,806, Feb. 23.
Fence post assembly, Packaged. R. M. Wilson. 2,670,075, Feb. 23.
Fence unit, Ornamental knockdown. W. Oberwerger. 2,670,182, Feb. 23.
Fibrous webs, Production of. J. Allan and E. B. Thomas. 2,670,316, Feb. 23.
Filling machine adapted to deliver metered amounts of solid comminuted materials. C. A. Heisterkamp, M. Dann, and J. P. Dura. 2,670,101, Feb. 23.
Filter: *See*—
Subaudio electrical filter.
Filter and holder, Disposable. A. I. Troy. 2,669,995, Feb. 23.
Filter device for automotive engines, Supercharging air induction. H. A. and D. P. Dorman. 2,670,055, Feb. 23.
Filter material, Making. W. J. Wiswesser. 2,670,305, Feb. 23.
Fin for heat exchangers and producing individual fins, Multiple flanged. B. Spieth. 2,669,959, Feb. 23.
Fin forming roll. W. P. Hill. 2,669,893, Feb. 23.
Fire alarm tape. W. H. Kliever and L. G. Ekman. 2,670,419, Feb. 23.
Fire control for powder actuated tools. R. T. Catlin. 2,669,716, Feb. 23.
Fire retardant solution, Production of a. R. Dahlstrom and G. E. Bronson. 2,670,297, Feb. 23.
Fisherman's fly box. W. M. Stiteler. 2,669,799, Feb. 23.
Fishing rod holder. W. P. Stahle. 2,670,111, Feb. 23.
Fixing water-soluble organic compounds on materials of fibrous structure. J. Heyna and W. Schumacher. 2,670,265, Feb. 23.
Flaking and dispensing apparatus, Hand soap. D. D. Cuyler. 2,670,019, Feb. 23.
Flexible follower for metal ampoules. R. P. and J. O. Scherer and L. V. Whipple. 2,670,121, Feb. 23.
Floating radial seal for regenerative heat exchangers. W. E. Hammond, J. A. Lidford, and C. A. Ballard. 2,670,183, Feb. 23.
Floor structure. H. D. Fenske. 2,670,060, Feb. 23.
Flow gun. G. S. Pyles. 2,670,241, Feb. 23.
Flowmeter. G. F. Gardner and T. A. Rich. 2,669,873, Feb. 23.
Fluid feeding apparatus, Self-proportioning. D. B. Bell. 2,670,002, Feb. 23.
Fluorinated diketones, Production of. M. W. Davis, Jr. 2,670,353, Feb. 23.
Fluorination of trifluoro-trichloro-propene. H. B. Gottlieb and J. D. Park. 2,670,387, Feb. 23.
Focusing device, Telemetric. L. J. E. A. Dodin. 2,669,916, Feb. 23.
Food product flavoring composition and preparation thereof. F. H. Stark. 2,670,293, Feb. 23.
Food-serving appliance. N. W. Roop. 2,670,234, Feb. 23.
Form for neckties. H. M. Jarrett. 2,669,724, Feb. 23.
Forming articles. R. F. Brewer. 2,669,770, Feb. 23.
4,6-alkylidene-D-glucitol and producing the same from sucrose. A. Scattergood. 2,670,354, Feb. 23.
14-alpha-hydroxyprogesterone. H. C. Murray and D. H. Peterson. 2,670,358, Feb. 23.
Fowl tendon pulling machine. F. H. Ine. 2,669,748, Feb. 23.
Frame for handbags and the like. W. Hammesfahr. 2,670,020, Feb. 23.
Friction reducing device. E. Shoucair. 2,669,989, Feb. 23.
Front leaf control for tilting front filing drawers. C. W. Straubel. 2,669,994, Feb. 23.
Fuel feeding system. J. L. Ray. 2,670,033, Feb. 23.
Full tool gear finishing method. E. W. Miller. 2,669,905, Feb. 23.
Funnel with sliding closure, Grain door. G. Skogstad, L. G. Elm, and L. R. Fuller. 2,670,108, Feb. 23.
Furnace and heat distributor, Oil burning tobacco curing. J. R. Furth. 2,670,191, Feb. 23.
Fuse and fuse holder. F. J. Kozacka. 2,670,418, Feb. 23.
Game, Bowling. J. H. Powell. 2,670,204, Feb. 23.
Game, Rolling-ball racing. O. C. Brewster. 2,670,206, Feb. 23.
Garbage disposer, Float controlled. H. Jordan. 2,670,137, Feb. 23.
Garbage disposer with protective inlet. H. Jordan. 2,670,143, Feb. 23.
Garment, Infant's. N. G. Godshall. 2,669,722, Feb. 23.
Gas heater. H. N. Stone. 2,670,425–6, Feb. 23.
Gauge: *See*—
Pneumatic bore gauge.
Gear: *See*—
Amphibious helicopter landing gear.
Gear reduction unit. R. H. Skidmore. 2,669,881, Feb. 23.
Gear shaper. W. S. Praeg and A. B. Bassoff. 2,669,906, Feb. 23.
Gear with means for minimizing wheel drag load incident to landing, Aircraft landing. C. B. V. Neilson and R. G. Hoare. 2,670,160, Feb. 23.
Generating face and tapered gears with bowed formation. B. Bloomfield and D. S. Whitney. 2,669,904, Feb. 23.

Generator: *See*—
Vapor generator.
Generator-burner, Oil gas. L. Vignere, Sr. 2,670,032, Feb. 23.
Generator operation, Vapor. H. P. Lewis. 2,669,977, Feb. 23.
Girard derivatives of 5-halo-salicylaldehydes. W. A. Gregory and E. C. Hermann. 2,670,348, Feb. 23.
Glass charge delivery and forming apparatus. G. E. Rowe. 2,669,805, Feb. 23.
Glass composition. J. E. Duncan and J. J. Smith. 2,669,808, Feb. 23.
Glass composition. J. J. Smith. 2,669,807, Feb. 23.
Golf club direction indicator attachment. A. C. Fay. 2,670,209, Feb. 23.
Golf practice sighting device. W. Y. Turner. 2,669,782, Feb. 23.
Governor mechanism. V. C. Reddy and C. J. Willrich, Jr. 2,669,983, Feb. 23.
Governor, Variable speed. F. A. Masheris and K. Tanko. 2,670,416, Feb. 23.
Graining lithographic plates, Method and apparatus for. E. G. Carlson and A. H. Eppler. 2,669,810, Feb. 23.
Greeting card package and display container. S. Golden. 2,670,074, Feb. 23.
Grip for lever pivoted instruments. P. D. Curutchet. 2,669,992, Feb. 23.
Grounding electrode, Expansible. J. D. Covington. 2,670,397, Feb. 23.
Guard finger and ledger plate. A. M. Vik. 2,669,831, Feb. 23.
Guard for beds. F. T. Moon. 2,669,732, Feb. 23.
Guide clamp for flush valves. O. Stader. 2,669,729, Feb. 23.
Gummed tape dispenser. S. Isler. 2,670,042, Feb. 23.
Hackamore, Bitless. A. Pletsch. 2,669,816, Feb. 23.
Halocarbons, Manufacture of. H. J. Passino, W. O. Teeters, and R. M. Mantell. 2,670,389, Feb. 23.
Halogenated N-aryl-N-dialkylaminoalkylarylcarboxamides. J. W. Cusic. 2,670,373, Feb. 23.
Hammer and spacer, Stalk shredder. F. D. Sawyer. 2,669,819, Feb. 23.
Hanger: *See*—
Basement clothesline hanger.
Hanger for floor beam forms, Removable. O. Unneland. 2,669,763, Feb. 23.
Harvester, Digging and windrowing root. F. O. Falkner. 2,669,820, Feb. 23.
Harvester, Sugar cane. A. J. Kramer. 2,669,823, Feb. 23.
Harvesting and piling machine, Cane. J. M. Pugh. 2,669,829, Feb. 23.
Harvesting machine, Cotton. T. L. Kinne. 2,669,822, Feb. 23.
Hatrack. H. D. Evans. 2,670,084, Feb. 23.
Heat exchange apparatus provided with thermal compensating device. C. Schörner and M. Rothemünd. 2,670,185, Feb. 23.
Heat exchanger core constituted by folded plates. E. A. Lundstrom. 2,670,186, Feb. 23.
Heat exchanger, Making a. W. S. Norman and C. H. V. Sawyer. 2,670,311, Feb. 23.
Heat-treatment of N-alkyl polyamides. O. A. Bredeson. 2,670,267, Feb. 23.
Heater: *See*—
Automobile-body heater. Gas heater.
Heating unit, Valve controlled coating material. C. B. Lansing and E. G. Hart. 2,670,238, Feb. 23.
Helical slot scanner. A. S. Dunbar. 2,670,436, Feb. 23.
High-pressure gaseous discharge lamp. G. A. Freeman and E. A. Jenkins. 2,670,399, Feb. 23.
High-pressure valve. T. G. Moore and R. E. Harvill. 2,670,172, Feb. 23.
Hinge assembly for furnace doors. G. B. Morse. 2,670,197, Feb. 23.
Hoist. F. W. Coffing. 2,670,176, Feb. 23.
Hoist and power unit therefor. J. J. Eisberg. 2,670,086, Feb. 23.
Holder: *See*—
Accelerator target holder. Fishing rod holder.
Bottle holder. Lamp holder.
Honeycomb cores for sandwich type structures, Making. G. A. Ungar. 2,670,314, Feb. 23.
Hook: *See*—
Sliding hook.
Horn, High and low volume. C. A. Best and L. E. Johnson. 2,670,467, Feb. 23.
Hubcap securing means. K. C. Kimerer. 2,670,245, Feb. 23.
Hydraulic fluid control panel. O. Mueller. 2,669,841, Feb. 23.
Hydraulic pump. F. R. Bayles. 2,669,933, Feb. 23.
Hydraulic reversing transmission. J. D. Mooney. 2,669,971, Feb. 23.
Hydrocarbon synthesis process. R. N. Watts and C. F. Gray. 2,670,365, Feb. 23.
Impeller and shaft construction. H. E. La Bour. 2,669,938, Feb. 23.
Implement supporting structure. B. Da Valle. 2,669,920, Feb. 23.
Improving plant yields. H. Cohen. 2,669,804, Feb. 23.
Inanimate cow milk dispenser. P. D. Mangano. 2,670,102, Feb. 23.
Index corrector. H. C. Stieglitz. 2,669,911, Feb. 23.
Indicating support for fire extinguishers. M. Hansson. 2,670,194, Feb. 23.
Indicator: *See*—
Attitude indicator. Wear of bit indicator.
Indicator for designation strip holder. D. J. Wexler. 2,669,964, Feb. 23.
Initiating subterranean combustion. G. C. Mayes and R. L. Koch. 2,670,047, Feb. 23.
Initiator manufacturing apparatus. C. R. Johnson. 2,670,465, Feb. 23.
Instrument landing apparatus and method. T. J. Wilson. 2,670,454, Feb. 23.
Insulating encasement. G. P. Reintjes. 2,670,192, Feb. 23.
Internal-combustion engine. R. H. Marchal and M. L. Fabre. 2,669,984, Feb. 23.
Isomer of amidone, Preparation of an. R. W. Stoughton. 2,670,375, Feb. 23.
Jack: *See*—
Pushing or pulling jack. Wire pulling jack.
Jaw crusher. E. H. Anderson. 2,670,141, Feb. 23.
Jetty. G. W. Rehfeld. 2,669,844, Feb. 23.
Key case. W. E. Hudson, Jr. 2,669,859, Feb. 23.
Kickout sash. H. D. Carbiener and D. L. Rutter. 2,670,062, Feb. 23.
Knitting machine, Straight bar. K. W. Wickardt. 2,669,854, Feb. 23.
Knotter. W. V. Goodhue and A. N. Verrier. 2,670,230, Feb. 23.
Ladder, double ladder, and stepladder, Collapsible. E. Sanguinetti. 2,670,120, Feb. 23.
Lamp: *See*—
High-pressure gaseous discharge lamp. Short arc high-pressure vapor discharge lamp.
Lamp fixture. O. Leonard. 2,670,430, Feb. 23.
Lamp holder. J. E. Brock and D. Zanotti. 2,670,115, Feb. 23.
Lamp shade, Mechanical. J. C. Bullock. 2,670,431, Feb. 23.
Lamp socket and harp assembly. G. B. Benander. 2,670,432, Feb. 23.
Latch. J. L. Leatherman. 2,670,231, Feb. 23.
Lawn mower of the rotating sickle type. W. S. Watrous. 2,669,826, Feb. 23.
Lifting means for tractor-mounted equipment. B. M. Hyman and L. P. Millard. 2,669,821, Feb. 23.
Light: *See*—
Loading light.
Lighting fixture, Electric. E. D. Tillson. 2,670,429, Feb. 23.
Lightning arrester. J. M. Sheadel and J. J. Taylor. 2,670,398, Feb. 23.
Limit switch. J. N. Anderson and W. S. Viall, Jr. 2,670,415, Feb. 23.
Line-forming mechanism for typewriting machines. G. E. Canham. 2,670,067, Feb. 23.
Liner hanger and actuator therefor. A. L. Armentrout. 2,670,045, Feb. 23.
Lint cleaner. D. D. Day. 2,669,755, Feb. 23.
Lint collection apparatus for textile machines, Pneumatic. D. B. Parrish. 2,669,744, Feb. 23.
Liquid controlling attachment for wet rollers. C. H. Ellis. 2,669,927, Feb. 23.
Liquid flow control. W. A. Biermann and R. W. Sloane. 2,670,005, Feb. 23.
Liquid level meter. G. Wuensch, H. Ziegler, and H. Caspar. 2,669,875, Feb. 23.
Liquid proportioning apparatus. H. G. Freeman and G. T. Gurney. 2,670,104, Feb. 23.
Loading and carrying attachment, Automobile boat. L. O. Ellingson. 2,670,113, Feb. 23.
Loading light. E. H. Olson. 2,670,428, Feb. 23.
Locking device for bags, trunks, and the like. W. Ramien. 2,669,857, Feb. 23.
Locking device for photographic camera backs. W. Knauf. 2,670,096, Feb. 23.
Locking device, Vehicle steering wheel. W. H. Shaffer and W. Stenger. 2,669,882, Feb. 23.
Lockup for transmissions, Parking. W. A. Hasbany. 2,670,064, Feb. 23.
Log loading boom. H. R. Pearson. 2,670,177, Feb. 23.
Low-glare cathode-ray tubes, Producing. C. S. Szegho, W. O. Reed, and M. E. Amdursky. 2,670,279, Feb. 23.
Lubricator device. H. E. McKinney. 2,670,225, Feb. 23.
Machine for assembling shoe bottom parts. E. F. Stacey. 2,669,734, Feb. 23.
Machine for drying hosiery. H. S. Drum, H. F. Liedtke, and J. Schmitz, Jr. 2,669,788, Feb. 23.
Machine for making hexagonal boxes. G. E. Stilwell. 2,669,715, Feb. 23.
Machine for making shims. L. Ware. 2,669,891, Feb. 23.
Machine for printing and issuing tickets, labels, and the like. H. F. Ford. 2,669,926, Feb. 23.
Machine for sealing cartons. W. C. Gigler. 2,670,027, Feb. 23.
Machine for stringing beads or other like pierced articles. E. D. Perry and S. D. Garzone. 2,670,109, Feb. 23.
Magnesium-zinc ceramic ferrite containing copper. E. Albers-Schoenberg. 2,670,331, Feb. 23.
Magnetostrictive transducer. E. E. Turner. 2,670,446, Feb. 23.

Making ware by casting. A. R. Blackburn and R. E. Steele. 2,669,762, Feb. 23.
Maleic anhydride, Manufacture of. G. Barsky and S. Gottfried. 2,670,355, Feb. 23.
Manipulation and storage of bromine. R. Bloch, I. Schnerb, and D. Kaplan. 2,670,276, Feb. 23.
Manually adjustable valve. G. Kopp. 2,670,008, Feb. 23.
Measuring and transmitting device for flow velocities and the like. G. Wünsch and H. Ziegler. 2,670,464, Feb. 23.
Measuring device, Hosiery length. M. N. Holmes. 2,669,866–7, Feb. 23.
Metal foil pans, Making. W. G. Swaine. 2,669,914, Feb. 23.
Metal oxide production. R. D. Nutting. 2,670,272, Feb. 23.
Metal oxide production. C. M. Olson and J. N. Tully. 2,670,275, Feb. 23.
Metal-working process and product. T. I. McClintock and A. L. Hurst. 2,670,309, Feb. 23.
Meter: *See*—
Liquid level meter. Parking meter.
Metering and integrating instruments and the like, with zero stabilizer, Fluid flow. H. Ziegler. 2,669,874, Feb. 23.
Method and apparatus for sewing the loops at the toe of circular knit hose. J. L. Getaz. 2,669,952, Feb. 23.
Method and machine for filling and wrapping packages. R. W. Hoag. 2,669,814, Feb. 23.
Micaceous insulating materials, Manufacture of. J. S. Kilpatrick. 2,669,764, Feb. 23.
Microgroove polystyrene phonograph record. F. Groff and H. D. Bassett. 2,670,308, Feb. 23.
Microscope, Electron. J. B. Le Poole. 2,670,450, Feb. 23.
Mill: *See*—
Attrition mill. Rolling mill.
Milling machine, Contour. F. A. Buechler. 2,669,908, Feb. 23.
Mixing and kneading machine. R. Erdmenger. 2,670,188, Feb. 23.
Mold ejecting mechanism for mold-forming machines. E. I. Valyi. 2,669,759, Feb. 23.
Mold forming machine. E. I. Valyi. 2,669,758, Feb. 23.
Molding device, Injection. R. D. Keeney. 2,669,750, Feb. 23.
Molding process. W. S. Pratt. 2,669,752, Feb. 23.
Monochromator. K. G. Macleish. 2,669,899, Feb. 23.
Mop and frame therefor. H. W. Jelliffe. 2,669,741, Feb. 23.
Motor: *See*—
Electric motor.
Motor installation, Electric. P. V. Harmon. 2,670,447, Feb. 23.
Mount for missiles and the like, Yieldable shipping. R. P. Applegate. 2,670,166, Feb. 23.
Mounting: *See*—
Valve rocker mounting.
Mounting artificial molar teeth, Means for. G. Zuccoli. 2,669,779, Feb. 23.
Mounting for tractors, Semirigid. J. S. Pilch. 2,670,249, Feb. 23.
Mower structure. N. H. Preble and W. A. Goss. 2,669,825, Feb. 23.
Muffler, Voice. H. C. Tuttle. 2,670,054, Feb. 23.
Multilinear screens, Production of. A. N. Goldsmith. 2,669,768, Feb. 23.
Multipurpose pressurized container valve. J. E. Ayres. 2,670,106, Feb. 23.
N-alpha-naphthyl N,N',N'-trialkyl-ethylene diamines. J. V. Scudi and G. F. Grail. 2,670,376, Feb. 23.
N-dialkylaminoalkyl aminobenzanilides and N-aralkylaminobenzamides and their salts. J. W. Cusic. 2,670,374, Feb. 23.
N-dialkylaminoalkyl-N-cycloalkyl-cycloalkylalkanamides. J. W. Cusic. 2,670,372, Feb. 23.
Nail-receiving beam, One-piece. J. P. McMahon and B. A. Latulippe. 2,670,061, Feb. 23.
Naphtha reforming process. R. W. Krebs and A. Voorhies, Jr. 2,670,322, Feb. 23.
Neckbands, Stacked. F. E. Monks. 2,670,076, Feb. 23.
Needle bearing. H. Scherler. 2,670,253, Feb. 23.
New polyalkylidenes by condensation of diazoalkanes, Manufacture of. N. H. Ray. 2,670,333, Feb. 23.
Nonferrous alloys, Production of. C. M. Zvanut. 2,670,284, Feb. 23.
Nonwoven fabric, Making. D. K. Rider. 2,670,315, Feb. 23.
Nut-holding device. A. Kassel. 2,669,894, Feb. 23.
Oil ring. R. S. Grant. 2,670,252, Feb. 23.
Oiler, Animal operated stock. G. R. Rasmussen. 2,669,968, Feb. 23.
Oiling apparatus, Livestock. G. R. Rasmussen. 2,669,969, Feb. 23.
Oil-in-water coal tar emulsion and making it. P. E. McCoy and C. E. Neill. 2,670,332, Feb. 23.
Optical projection and registration system. W. H. Cherry. 2,669,900, Feb. 23.
Optical system adaptable to stereoscopic projectors, viewers, and television. M. P. Rehorn. 2,669,901, Feb. 23.
Optical system, Binocular. N. F. Barnes. 2,669,902, Feb. 23.
Orienting device, Punch core. M. L. Natland and R. E. Pearson. 2,670,179, Feb. 23.
Ortho-phosphoric acid, Producing. O. C. Jones. 2,670,274, Feb. 23.
Oscillator, Medical. A. Tonkin. 2,669,987, Feb. 23.
Oxidation of certain heterocyclic compounds. W. G. Toland, Jr. 2,670,370, Feb. 23.
Oxidation of olefines. D. J. Hadley, R. Heap, and R. J. Nichol. 2,670,381, Feb. 23.
Oxidation of olefins. D. J. Hadley. 2,670,380, Feb. 23.
Pad: *See*—
Corner pad.
Paint roller. S. T. Coughlan. 2,669,742–3, Feb. 23.
Paint roller loading device. S. T. Coughlan. 2,669,965, Feb. 23.
Paraffin wax, Low melting. M. V. Hunter and J. R. Segesser. 2,670,323, Feb. 23.
Parking brake. C. B. Reynolds. 2,670,063, Feb. 23.
Parking meter. A. R. N. Bruce. 2,670,066, Feb. 23.
Paving machine. K. E. McConnaughay. 2,669,915, Feb. 23.
Pen, Fountain. A. Gordon. 2,669,970, Feb. 23.
Percussive device, Pulsator operated. J. F. Joy. 2,669,840, Feb. 23.
Perforating device for wells. W. G. Sweetman. 2,669,928, Feb. 23.
Phonograph apparatus. E. O. Thompson. 2,670,210, Feb. 23.
Phonograph record disk safety and interlocking storage album. H. H. Mueller. 2,670,261, Feb. 23.
Phosphonamic acids. P. Filatoff-Rocq and R. D. Stayner. 2,670,369, Feb. 23.
Photoelectric stop mechanism for looms. R. B. Hutchinson. 2,670,014, Feb. 23.
Photographic tracing cloth. C. F. Smith. 2,670,288, Feb. 23.
Photosensitization of polymeric cinnamic acid esters. L. M. Minsk, W. P. Van Deusen, and E. M. Robertson. 2,670,285–7, Feb. 23.
Pile wire for wire looms and weaving pile fabrics. F. P. Groat. 2,670,013, Feb. 23.
Pin centering and paralleling instrument. A. W. Mann. 2,669,780, Feb. 23.
Pin setting machine for bowling alleys. K. C. Sherman. 2,670,205, Feb. 23.
Pipe coupling. P. F. Dragon. 2,670,222, Feb. 23.
Pipe coupling. F. H. Ream. 2,670,223, Feb. 23.
Piston packing ring. A. Bergeron. 2,670,255, Feb. 23.
Piston ring. A. Bergeron. 2,670,257, Feb. 23.
Piston ring. A. Bergeron. 2,670,259, Feb. 23.
Piston ring. H. Pien. 2,670,256, Feb. 23.
Piston ring construction. A. Bergeron. 2,670,258, Feb. 23.
Piston skirt stabilizer. M. W. Marien. 2,670,254, Feb. 23.
Plant growth regulation. W. W. Allen. 2,670,282, Feb. 23.
Planter valve. R. L. Erwin. 2,669,951, Feb. 23.
Plastic compositions and porous bodies prepared therefrom, Self-hardening. A. M. Edmunds. 2,670,339, Feb. 23.
Plastic compositions and solid porous bodies prepared therefrom, Self-hardening. A. M. Edmunds. 2,670,338, Feb. 23.
Platform and hand truck, Combination. C. L. Reppert. 2,670,093, Feb. 23.
Platform for small boats, Detachable. H. J. Picker. 2,669,733, Feb. 23.
Pleat forming device. A. Gellman. 2,669,955, Feb. 23.
Plow, Rotary. L. T. Freeman. 2,669,919, Feb. 23.
Pneumatic bore gauge. O. C. Brewster. 2,669,864, Feb. 23.
Polyhydric alcohol compositions containing an alkali salt of a sulfonated alkenyl aromatic resin. H. H. Roth. 2,670,336, Feb. 23.
Polymerization of isobutene with anhydrous sulfur trioxide catalyst. M. T. Howerton. 2,660,393, Feb. 23.
Polymerization of olefins. W. F. Glassmire and J. H. Phillips. 2,670,392, Feb. 23.
Polymerization process using hydrogen fluoride. C. B. Croston, H. M. Teeter, and J. C. Cowan. 2,670,361, Feb. 23.
Porcelain enamel and producing same, Color stable. G. H. Johnson and J. F. Wuellner. 2,670,300, Feb. 23.
Poster assembly jig. D. S. Barnes. 2,669,775, Feb. 23.
Power transmission chain. H. S. Pierce. 2,669,879, Feb. 23.
Preservatives. P. M. Downey and R. O. Zerbe. 2,670,382, Feb. 23.
Press: *See*—
Assembly press.
Press for forming pellets. A. P. Bernard. 2,670,044, Feb. 23.
Pressure indicating and recording device, Tire. D. M. Lentz. 2,669,876, Feb. 23.
Pressure measuring device. H. F. Dunlap and J. H. Ramser. 2,669,877, Feb. 23.
Pressure responsive switch. E. C. Raney. 2,670,417, Feb. 23.
Pressure sensitive adhesives containing graphite. J. H. Folwell. 2,670,306, Feb. 23.
Preventing the development of sourness in certain petroleum liquids during distillation. G. W. Ayers, M. J. Geerts, and R. E. Chandler. 2,670,319, Feb. 23.
Producing combustible gases from powdered fuels, Method and apparatus for. F. Totzek. 2,670,280, Feb. 23.

Producing curved electrotypes. G. W. Bungay. 2,670,326, Feb. 23.
Producing rubber covered valve stem with compensating bushing. F. R. Hormann. 2,669,753, Feb. 23.
Projectile, Sabot. P. F. Darby, T. R. Kinraide, R. A. A. Hentschel, and J. Hammond. 2,669,930, Feb. 23.
Prop, Pit. A. Haarman. 2,670,170, Feb. 23.
Propeller and cowling therefor, Multiblade. L. H. Enos. 2,670,050, Feb. 23.
Protection of food against protein degradation. D. Melnick. 2,670,291, Feb. 23.
Protective device. E. H. Yonkers and R. F. Huber. 2,670,452, Feb. 23.
Protector: *See*—
Teeth protector. Tire cleat protector.
Pulley construction. T. E. Nelson. 2,669,878, Feb. 23.
Pulley, Jack leg. A. De Wolf. 2,670,178, Feb. 23.
Pump: *See*—
Deep well pump. Hydraulic pump.
Electromagnetic fluid pump. Reciprocating pump.
Pump and valve assembly. E. F. Rauscher. 2,669,932, Feb. 23.
Pump control apparatus for internal-combustion turbine engines, Fluid. L. Lee, II. 2,669,838, Feb. 23.
Pumping system, Continuous liquid. J. W. Stafford. 2,669,941, Feb. 23.
Pure dihalides, Production of. J. F. Jordan. 2,670,270, Feb. 23.
Pushing or pulling jack. M. B. Lucker. 2,670,174, Feb. 23.
Pyrimidine compounds and their preparation, New. R. M. Jacob. 2,670,351, Feb. 23.
Quaternary ammonium salts of basic derivatives of substituted cinnamic acids and producing same. W. A. Lott. 2,670,360, Feb. 23.
Quenching steel. M. W. Freeman. 2,670,310, Feb. 23.
Quick-freezing and quick-cooking meat patties, Producing. L. R. Tansley. 2,670,296, Feb. 23.
Quick-traverse mechanism for winding machines. G. C. Joyce. 2,670,148, Feb. 23.
Radiation beam forming unit. J. C. Pennock and A. J. Bacchieri. 2,670,443, Feb. 23.
Radioactivity borehole logging apparatus. G. Herzog. 2,670,442, Feb. 23.
Radioelectric communication system, Multichannel. H. Chireix. 2,670,404, Feb. 23.
Radiotelephone communication system. D. Mitchell. 2,670,435, Feb. 23.
Railway switch lever latch stand. H. L. Bone. 2,669,858, Feb. 23.
Raking mechanism for longitudinal settling tanks, Sediment. C. H. Scott. 2,670,080, Feb. 23.
Range, Combination gas and oil. D. Saponara. 2,669,985, Fig. 23.
Razor, Automatic. E. Bobkowicz. 2,669,776, Feb. 23.
Razor, Safety. J. T. Scully. 2,669,777, Feb. 23.
Reaction device. W. G. Abbott, Jr. 2,669,836, Feb. 23.
Reciprocating pump. S. Presentey. 2,669,937, Feb. 23.
Record changer. F. Freimann, C. Hart, and A. L. Knox, Sr. 2,670,211, Feb. 23.
Record summary and diary device. W. F. Wellendorf. 2,670,221, Feb. 23.
Recovering metal values from leach liquors. A. M. Thomsen. 2,670,271, Feb. 23.
Recovery of ethylene. A. P. Lien and C. E. Johnson. 2,670,391, Feb. 23.
Recovery of oat germ from oats. W. F. Hanser. 2,670,290, Feb. 23.
Reduction of alkyl nitroaromatic compounds. R. B. Thompson. 2,670,377, Feb. 23.
Reed for musical instruments. J. Topor. 2,669,897, Feb. 23.
Reed trimmer. L. Cordier. 2,669,778, Feb. 23.
Reel for motion-picture film. W. M. Gregg. 2,670,202, Feb. 23.
Refining steel. C. Soisson. 2,670,283, Feb. 23.
Refining vegetable oils in miscella. J. A. Ziegler. 2,670,362, Feb. 23.
Refractory bodies and compositions and making the same. K. C. Nicholson. 2,670,301, Feb. 23.
Refrigerant flow control. H. T. Lange. 2,669,849, Feb. 23.
Refrigerated cabinet having movable condenser. W. G. Spiegelhalter. 2,669,853, Feb. 23.
Refrigerated open top compartment. R. H. Bishop. 2,669,850, Feb. 23.
Refrigerating apparatus for producing frozen confections. L. J. Nauroth. 2,669,852, Feb 23.
Regenerating carboxylic acids from their salts. D. G. Cain, C. S. Goddin, Jr., and N. M. Carithers. 2,670,366, Feb. 23.
Regeneration of iron hydrocarbon synthesis catalyst. C. E Hemminger. 2,670,364, Feb. 23.
Regulator: *See*—
Cabin pressure regulator.
Remote selecting members, Method and means for. F. H. Raymond and G. T. R. Piel. 2,670,463, Feb. 23.
Removal of filtrate from filter cakes. D. L. McKay. 2,670,083, Feb. 23.
Resilient floor and wall tile and preventing objectionable curling thereof. D. W. Moore and A. H. Searl. 2,670,307, Feb. 23.
Resilient suspension springs. R. M. Seddon. 2,670,200, Feb. 23.
Resilient traction rail joint insulator. N. K. Moses. 2,670,136, Feb. 23.
Reversing tool. W. L. Church. 2,670,181, Feb. 23.
Rewinding machine. L. Priest. 2,670,152, Feb. 23.
Ribbon curler. P. L. Cerone. 2,669,913, Feb. 23.
Ring: *See*—
Oil ring. Piston ring.
Piston packing ring.
Ring of a length of thermoplastic material, making a. R. E. Young. 2,670,313, Feb. 23.
Roasting nuts and the like. C. L. Emerson, Jr. and W. R. Cuming. 2,670,292, Feb. 23.
Roll type mercury switch. E. R. Coutant. 2,670,421, Feb. 23.
Roller structure. E. M. Beckman. 2,670,242, Feb. 23.
Rolling mill. J. M. O'Malley. 2,669,892, Feb. 23.
Rotary cutting tool. J. E. Coates. 2,670,018, Feb. 23.
Rotor and pitch control mechanism therefor, Aircraft lifting. K. H. Hohenemser. 2,670,051, Feb. 23.
Rubbing machine. R. J. Champayne. 2,669,812, Feb. 23.
Ruffler. H. H. Russell. 2,669,954, Feb. 23.
Safety control system for gas burners employing single point ignition. R. A. Wittmann. 2,670,035, Feb. 23.
Safety device. G. O. Shull and R. B. Murrow. 2,669,929, Feb. 23.
Safety device for hydraulic brakes. S. G. Broadway. 2,669,843, Feb. 23.
Sand blasting apparatus and method. J. R. McGrath. 2,669,809, Feb. 23.
Scaffold bracket. M. J. Heller. 2,670,248, Feb. 23.
Scale, Electric. J. N. Baker. 2,670,195, Feb. 23.
Scooter airplane. M. S. Sahi. 2,670,155, Feb. 23.
Scraper, Casing. R. B. Kinzbach. 2,670,046, Feb. 23.
Screen for producing television images. A. M. Marks. 2,670,402, Feb. 23.
Screening discharge device for rod and ball mills. M. Treshow. 2,670,139, Feb. 23.
Screw driver, Illuminated. S. J. Barlet and A. H. Whitmore. 2,670,427, Feb. 23.
Screw, Self-locking adjustment. S. Oldberg and M. C. Turkish. 2,670,022, Feb. 23.
Seal for cans. T. H. Thompson. 2,670,098, Feb. 23.
Sealing porous formations. P. L. Menaul. 2,670,048, Feb. 23.
Sealing sausage casings and product thereof. J. J. Frank. 2,670,294, Feb. 23.
Seam following device for welding apparatus, Automatic. F. M. Darner and W. S. Schaefer. 2,670,423, Feb. 23.
Seat: *See*—
Adjustable vehicle seat.
Seat structure, Bathtub. F. Rossi. 2,670,029, Feb. 23.
Seine, Collapsible. W. P. Hesch. 2,669,798, Feb. 23.
Selenium rectifier. B. P. Hecht and F. Koury. 2,669,767, Feb. 23.
Separating and drying comminuted solids, Method and apparatus for. N. L. Davis. 2,670,078, Feb. 23.
Separation of hydrocarbons with thiourea. L. C. Fetterly. 2,670,344, Feb. 23.
Separator and gas, Multiple unit gas-oil. J. A. Rossiter. 2,670,056, Feb. 23.
Sewing machine, Shoe. R. L. Slinkard. 2,669,953, Feb. 23.
Shears with push rod rollers, Grass. C. H. W. Kahl. 2,669,830, Feb. 23.
Sheet feeder for printing presses. J. F. Banthin. 2,670,203, Feb. 23.
Shelf, Lifting. H. J. Douglas. 2,670,140, Feb. 23.
Shield means for pilot burners and thermocouple of gaseous burners. O. A. West. 2,670,394, Feb. 23.
Shield, Perspiration. M. Vandekerck. 2,669,720, Feb. 23.
Shift control for hydraulic pumps, Hydraulically actuated. W. R. Tucker. 2,669,935, Feb. 23.
Shock absorber. J. O. Gill. 2,670,164, Feb. 23.
Short arc high-pressure vapor discharge lamp. G. A Freeman, E. M. Beliott, and H. D. Fraser. 2,670,451, Feb. 23.
Shoveling apparatus. J. Decat. 2,670,070, Feb. 23.
Signal apparatus, Cab. C. B. Shields. 2,670,433, Feb. 23
Signal modifying means in radio controlled flight. O. H. Schuck. 2,670,455, Feb. 23.
Signaling system employing electron beams. M. E. Mohr. 2,670,405, Feb. 23.
6 beta, 17 alpha-dihydroxy-4-pregnene-3,20,dione and esters thereof. H. C. Murray and D. H. Peterson. 2,670,357, Feb. 23.
Sky lookout support. D. A. Lewis, Jr. 2,669,784, Feb. 23.
Sliding hook. L. Magnan and H. Switzman. 2,670,168, Feb. 23.
Smoking and canning fish. C. S. Ash. 2,670,295, Feb. 23.
Sodium carbonate. H. W. Rahn. 2,670,269, Feb. 23.
Sorting apparatus. R. F. Stehlik. 2,670,087, Feb. 23.
Sound recording and reproduction system. H. S. Heller and W. E. Stofer. 2,670,212, Feb. 23.
Sounding device for locating shallows and holes in a lake bottom. G. S. Rydzewski. 2,669,785, Feb. 23.
Spacing device for frictionally opposed bodies. F. R. Smith and J. E. Connolly. 2,670,199, Feb. 23.
Spectacles. R. Tardy. 2,669,903, Feb. 23.
Sphero-conically generated fitting. A. R. C. Markl. 2,670,224, Feb. 23.

Sponge glass seal for wave guides. E. G. Linder. 2,670,462, Feb. 23.
Spray drying. W. L. Spalding. 2,670,036, Feb. 23.
Spray gun, Dual purpose. F. D. Ditch. 2,670,239, Feb. 23.
Sprinkling apparatus. K. Laux. 2,670,237, Feb. 23.
Squeeze roller apparatus. J. F. Naylor. 2,669,948, Feb. 23.
Stabilized cellulose ester composition and preparing it. C. J. Malm and R. F. Williams. 2,670,302, Feb. 23.
Stand: *See*—
Christmas tree stand.
Railway switch lever latch stand.
Starter control apparatus. P. L. Schneider. 2,670,444, Feb. 23.
Steel shot for blast cleaning, blast peening, and the like. T. J. Hutchinson, Jr. 2,670,281, Feb. 23.
Stitching attachment for sewing machines, Blind. W. C. Haines. 2,669,956, Feb. 23.
Stole convertible to a jacket, Fur. M. Koch. 2,669,721, Feb. 23.
Storage tank. A. F. Fino and F. L. Plummer. 2,670,100, Feb. 23.
Striping and ribboning ice cream, Means for. C. W. Wildebour. 2,669,945, Feb. 23.
Stroller, Foldable baby. L. H. Leonard. 2,670,216, Feb 23.
Stuffing and molding device, Sausage. R. M. Hovland 2,669,749, Feb. 23.
Subaudio electrical filter. R. W. Gilbert. 2,670,460, Feb. 23.
Submersible automatic bilge pump. R. R. Lovett, Jr 2,669,934, Feb. 23.
Substituted gluconamides. C. L. Mehltretter, R. L. Mellies, and J. C. Rankin. 2,670,345, Feb. 23.
Sucker rod sand trap. W. S. Crake. 2,669,940, Feb. 23
Sunglasses and face protector, Combined. E. Diggs 2,669,717, Feb. 23.
Support: *See*—
Automobile clothes hanger support: Sky lookout support.
Support means for serving trays. L. B. Watt. 2,670,260, Feb. 23.
Supporting enclosure for jettisonable flexible fuel cells L. J. Proebstle. 2,670,162, Feb. 23.
Surface cleaning tool. F. F. Winberg. 2,669,738, Feb. 23.
Sweep or like attachment for tractors. R. M. Paterson. 2,670,089, Feb. 23.
Switch: *See*—
Delayed-action switch. Roll type mercury switch.
Limit switch. Time limit selector switch.
Pressure responsive switch.
Switch. R. B. White, Jr. 2,670,414, Feb. 23.
Switching system for dual-speed electric servo mechanism. A. F. Nalyor and A. M. Spielberg. 2,670,456, Feb. 23.
Synchronized rotating color filters. F. S. Grunwald. 2,670,400, Feb. 23.
Synchronizing aircraft engines, Means for. T. A. Harris. 2,669,837, Feb. 23.
Table: *See*—
Collapsible ironing table. Dismountable picnic table.
Table with fabric support, Ironing. E. E. Foster. 2,669,793, Feb. 23.
Tag attachment device. H. L. Spaulding, W. E. Gladstone, Jr., and M. Markovich. 2,669,795, Feb. 23.
Tank: *See*—
Storage tank.
Tank for helicopters, Fuel. R. C. Christle. 2,670,049, Feb. 23.
Tape-dispensing mechanism with knife-guarding means. A. P. Krueger. 2,670,041, Feb. 23.
Target moving and control mechanism. E. L. Dale. 2,670,207, Feb. 23.
Teakettle having a manually operated lid for the pouring opening. W. A. Welden. 2,670,107, Feb. 23.
Teat cup for use in connection with milking machines. H. E. Skett. 2,669,966, Feb. 23.
Teeth protector. V. H. Carpenter. 2,669,988, Feb. 23.
Telecommunication system. G. Elliott. 2,670,406, Feb. 23.
Telephone, Automatic. V. C. Mack. 2,670,403, Feb. 23.
Tensioning means for power-operated chain saws. M. H. Flest. 2,670,017, Feb. 23.
Testing machine Universal materials. H. M. Shneider. 2,669,868, Feb. 23.
Tetradigital grip for long lever pivoted surgical instruments. P. D. Curutchet. 2,669,991, Feb. 23.
Textile apparatus. F. F. Sutherland. 2,670,154, Feb. 23.
Textile bleach-finish process. G. Sigler. 2,670,266, Feb. 23.
Thiophosphoric acid derivatives and preparing the same. E. Kuh and D. R. Seeger. 2,670,347, Feb. 23.
Time limit selector switch. J. R. Long. 2,670,412, Feb. 23.
Timer. J. C. Burkholder. 2,670,039, Feb. 23.
Tire cleat protector. E. E. Doran. 2,670,023, Feb. 23.
Tire for use on ice. J. O. Antonson. 2,670,024, Feb. 23.
Titanium chloride acetate powder material, Preparation of. J. P. Wadington. 2,670,363, Feb. 23.
Toaster, Automatic electric. G. H. Rouse and H. L. Layton. 2,669,925, Feb. 23.
Tongs, Lifting and lowering. A. Barchoff. 2,670,233, Feb. 23.
Tool: *See*—
Reversing tool. Surface cleaning tool.
Rotary cutting tool.
Tool for handling retaining rings. R. J. Hamler 2,669,772, Feb. 23.
Tool for securing tile to wall or similar surface. A. F. Leis. 2,669,895, Feb. 23.
Toy, acrobatic. A. A. Mercola and P. D. Tetrick. 2,669,801, Feb. 23.
Toy track and balance means, Wheeled figure. M. J. Dietrich. 2,669,800, Feb. 23.
Tractor contour level. E. L. Wetzig, Sr. 2,669,787, Feb. 23.
Tractor drive, Single wheel garden and truck. W. J. Cruver. 2,670,052, Feb. 23.
Tractor trailer connection device. J. Colpo. 2,670,220, Feb. 23.
Train describer system. H. J. Groenendale. 2,670,434, Feb. 23.
Transfer applying device for glass, ceramic, and other ware. K. G. Aldridge. 2,669,796, Feb. 23.
Transferring collars, Means for. B. G. Price. 2,669,773, Feb. 23.
Transmission. H. L. Brock and J. R. Stevenson. 2,669,880, Feb. 23.
Trap: *See*—
Sucker rod sand trap.
Tray for roller applicators, Paint. G. H. Wabnitz. 2,669,736, Feb. 23.
Tray, Mount. C. R. Mitchell. 2,669,774, Feb. 23.
Tray, Paperboard serving. E. P. Buchmiller and H. Cohen. 2,670,124, Feb. 23.
Treatment of colored pictorial representations to simulate original oil paintings. D. D. Razzano. 2,669,797, Feb. 23.
Treatment of steroid quaternary ammonium salts. P. L. Julian and E. W. Meyer. 2,670,359, Feb. 23.
Trenching machine adjustment for digging conveyers. P. J. Hein. 2,669,792, Feb. 23.
Trichloroacetylpyridines. T. I. Fand and C. F. Lutomski. 2,670,352, Feb. 23.
Truck construction, Railway car. F. H. Spenner. 2,669,944, Feb. 23.
Tube oscillation system, Electronic. M. Morrison. 2,670,437, Feb. 23.
Tube with integral end closure, Shipping. J. C. Baxter and J. H. French. 2,670,129, Feb. 23.
Two-blade and cover blind shutter. H. L. Malone and E. S. Marvin. 2,669,917, Feb. 23.
Two-cylinder crankcase compression engine. H. E. Yarrington. 2,669,980, Feb. 23.
Two-level load-platform transporting vehicle. F. E. Hruza. 2,670,217, Feb. 23.
Umbrella, Telescopic. A. Völker. 2,670,133, Feb. 23.
Unsaturated aldehydes, Manufacture of. D. J. Hadley and R. J. Nichol. 2,670,379, Feb. 23.
Unsaturated fluoro-chlorocarbon, Preparation of. C. B. Miller and J. D. Calfee. 2,670,388, Feb. 23.
Valve: *See*—
Aerodynamic valve. Multipurpose pressurized container valve.
Dump valve.
High-pressure valve. Planter valve.
Manually adjustable valve. Water-steam mixing valve.
Valve. R. G. Holt. 2,670,171, Feb. 23.
Valve. R. E. Reeve. 2,670,009, Feb. 23.
Valve float coupling. P. L. Adams. 2,670,007, Feb. 23.
Valve for vacuum brake systems, Relay. J. R. Almond. 2,670,247, Feb. 23.
Valve having renewable valve seat, Quick-acting shutoff. T. A. Stehlin. 2,670,173, Feb. 23.
Valve rocker mounting. C. B. Leach. 2,669,981, Feb. 23.
Valve unit for crankcase induction engines, Reed. E. C. Klekhaefer. 2,669,979, Feb. 23.
Vapor generator. M. Frisch. 2,669,975, Feb. 23.
Vaporization apparatus, High temperature. F. G. Breyer and A. Delruelle. 2,670,196, Feb. 23.
Vaporizing and distributing hydrocarbon fuels, Method and apparatus for. W. W. Dick. 2,669,847, Feb. 23.
Variable transmission. A. J. Fedri. 2,669,885, Feb. 23.
Varying the discharge area of the tailpipe of a jet propelled plane, Means for. W. C. Helms, Jr. 2,669,834, Feb. 23.
Vehicle: *See*—
Two-level load-platform transporting vehicle.
Venetian blind head bar organization and fittings. H. K. Lorentzen. 2,670,038 Feb. 23.
Venetian blind installation bracket. H. Nelson. 2,670,167, Feb. 23.
Venetian blind slat. E. J. Hunter. 2,670,037, Feb. 23.
Venting and pressure release arrangement of electric accumulators. B. R. Field. 2,670,396, Feb. 23.
Viewing apparatus. J. J. Hegel. 2,669,783, Feb. 23.
Vulcanizing polychloroprene. J. J. Verbanc. 2,670,342, Feb. 23.
Waist and leg band for knitted or woven garments, Adjustable height. L. Meisel. 2,669,726, Feb. 23.
Wall base clip. R. M. Miller. 2,669,862, Feb. 23.
Wall construction. F. R. Lenk, Jr. 2,669,757, Feb. 23.
Wall structure for regeneratively cooled rocket motors. D. B. Rossheim, D. V. Doane, and C. A. Siemer. 2,669,835, Feb. 23.

Washcloth. A. E. Evans. 2,669,737, Feb. 23.
Washer and steering knuckle, Vibration. S. Gore. 2,670,229, Feb. 23.
Washing machine with induction motor drive. E. C. Williams. 2,669,856, Feb. 23.
Watch winding means. C. Hill and C. K. Johns. 2,669,833, Feb. 23.
Water purifier. D. H. Quinn. 2,670,081, Feb. 23.
Water-repelling composition. N. G. Mailander. 2,670,303, Feb. 23.
Water softening apparatus. F. H. Webb. 2,670,328, Feb. 23.
Water-steam mixing valve. E. T. Dahl and O. Knelsel. 2,670,003, Feb. 23.
Wax-oil separation process. C. J. Halamka and L. R. La Porte. 2,670,318, Feb. 23.
Weaner. C. H. Patterson. 2,669,967, Feb. 23.
Wear of bit indicator. A. Lubinski. 2,669,871, Feb. 23.
Weaving ribbons, tapes, bands, and the like, Means for. B. P. Voumard and W. H. Nicolet. 2,670,012, Feb. 23.
Well drilling equipment anchoring means, Submerged. J. Shannon. 2,669,846, Feb. 23.
Wet spinning of polyacrylonitrile from salt solutions. G. W. Stanton and T. C. Spence. 2,670,268, Feb. 23.
Wheel cover. G. A. Lyon. 2,670,243–4, Feb. 23.
Wheel dolly, Foldable. D. A. Whitesell. 2,670,092, Feb. 23.
Wheel for pneumatic tires, Emergency. J. B. Des Rosiers. 2,670,246, Feb. 23.
Welding clamp. H. J. de Vogt. 2,669,957, Feb. 23.
Wind and set mechanism for watches. W. T. Harris, W. B. Pegram, H. S. Brazee, and L. A. Hummel. 2,669,832, Feb. 23.
Winding machine. E. J. Heizer. 2,670,146, Feb. 23.
Winding machine. W. L. Perry. 2,670,149, Feb. 23.
Winding machine, Armature. J. M. Biddison. 2,670,145, Feb. 23.
Winding machine, Automatic yarn. J. R. Grady and H. L. Muschamp. 2,670,151, Feb. 23.
Winding machine, Bobbin. G. C. Joyce. 2,670,147, Feb. 23.
Window armrest, Automobile. A. J. Susil. 2,670,235, Feb. 23.
Wire pulling jack. E. J. Dullaghan. 2,670,016, Feb. 23.
Wire splicer and scraper. B. F. Reynolds. 2,670,015, Feb. 23.
Work-holding appliance, Welder's. C. W. Sweeney. 2,669,958, Feb. 23.
Work support for long workpieces with machine tools. E. W. Miller. 2,669,907, Feb. 23.
Wrench for insertbale teeth in saws. J. C. Haughy. 2,669,886, Feb. 23.
Wrench having parallel resilient jaws, Retractable jaw. R. S. Clough. 2,669,896, Feb. 23.
Writing device. J. W. Watkins. 2,669,791, Feb. 23.
X-ray diagnostic apparatus. M. Weinberg. 2,670,401, Feb. 23.
Yarn-controlled stopping device for knitting machines. B. Lebocey. 2,669,855, Feb. 23.
Zero and two directional force mechanism. L. B. Glaser and F. A. Votta, Jr. 2,670,198, Feb. 23.

CLASSIFICATION OF PATENTS

ISSUED FEBRUARY 23, 1954

NOTE.—First number = class, second number = subclass, third number = patent number

1— 1: 2,669,714
10: 2,669,715
44.5: Re.23,786
2,669,716
2— 9: 2,669,717
36: 2,669,718
42: 2,669,719
55: 2,669,720
88: 2,669,721
111: 2,669,722
133: 2,669,723
153: 2,669,724
197: 2,669,725
221: 2,669,726
3— 12.7: 2,669,727
17: 2,669,728
4— 57: 2,669,729
5— 2: 2,669,730
118: 2,669,731
331: 2,669,732
8— 34: 2,670,263
35: 2,670,264
49: 2,670,265
108: 2,670,266
130.1: 2,670,267
9— 1: 2,669,733
12— 18.5: 2,669,734
33.2: 2,669,735
15—121.2: 2,669,736
122: 2,669,737
2,669,738
128: 2,669,739
138: 2,669,740
229: 2,669,741
230: 2,669,742
2,669,743
301: 2,669,744
16— 51: 2,669,745
17— 4: 2,669,746
11: 2,669,747
11.3: 2,669,748
35: 2,669,749
18— 30: 2,669,750
47.5: 2,669,751
54: 2,670,268
55: 2,669,752
59: 2,669,753
2,669,754
19— 72: 2,669,755
20— 4: 2,669,757
22— 20: 2,669,758
48: 2,669,759
68: 2,669,760
23— 63: 2,670,269
87: 2,670,270
119: 2,670,271
139: 2,670,272
147: 2,670,273
165: 2,670,274
202: 2,670,275
216: 2,670,276
277: 2,670,277
288: 2,670,278
24— 123: 2,669,761
25— 29: 2,669,762
131.5: 2,669,763
156: 2,669,764
26— 11: 2,669,765
28— 74: 2,669,766
29— 25.3: 2,669,767
148: 2,669,768
148.2: 2,669,769
155.5: 2,669,770
205: 2,669,771
229: 2,669,772
236: 2,669,773
286: 2,669,774
2,669,775
30— 43: 2,669,776
72: 2,669,777
229: 2,669,778
32— 5: 2,669,779
67: 2,669,780
33— 22: 2,669,781
63: 2,669,782
64: 2,669,783
69: 2,669,784
33—126.5: 2,669,785
204: 2,669,786
215: 2,669,787
34— 223: 2,669,788
35— 35: 2,669,789
50: 2,669,790
66: 2,669,791
37— 90: 2,669,792
38— 111: 2,669,793
129: 2,669,794
40— 20: 2,669,795
41— 1: 2,669,796
26: 2,669,797
42: 2,670,279
43— 8: 2,669,798
57.5: 2,669,799
46— 45: 2,669,800
133: 2,669,801
135: 2,669,802
151: 2,669,803
47— 9: 2,669,804
61: Pl.Pt.1259
62: Pl.Pt.1258
48— 206: 2,670,280
49— 5: 2,669,805
2,669,806
92.5: 2,669,807
2,669,808
51— 11: 2,669,809
15: 2,669,810
37: 2,669,811
170: 2,669,812
309: 2,670,281
53— 6: 2,669,813
10: 2,669,814
20: 2,669,815
54— 6: 2,669,816
7: 2,669,817
55— 73: 2,669,818
118: 2,669,819
139: 2,669,820
56— 11: 2,669,821
12: 2,669,822
15: 2,669,823
18: 2,669,824
25: 2,669,825
25.4: 2,669,826
2,669,827
50: 2,669,828
192: 2,669,829
241: 2,669,830
311: 2,669,831
57— 38.3: Re.23,790
58— 71: 2,669,832
83: 2,669,833
60— 35.5: 2,669,834
35.6: 2,669,835
2,669,836
39.15: 2,669,837
39.28: 2,669,838
39.65: 2,669,839
51: 2,669,840
52: 2,669,841
2,669,842
54.5: 2,669,843
61— 3: 2,669,844
30: 2,669,845
46: 2,669,846
62— 1: 2,669,847
3: 2,669,848
8: 2,669,849
89.5: 2,669,850
2,669,851
114: 2,669,852
117.2: 2,669,853
66— 82: 2,669,854
163: 2,669,855
68— 12: 2,669,856
70— 67: 2,669,857
196: 2,669,858
456: 2,669,859
71— 2.5: 2,670,282
72— 16: 2,669,860
43: 2,669,861
46: 2,669,862
73— 17: 2,669,863
37.5: 2,669,864
73— 64: 2,669,865
89: 2,669,866
2,669,867
93: 2,669,868
113: 2,669,869
116: 2,669,870
151: 2,669,871
155: 2,669,872
205: 2,669,873
206: 2,669,874
313: 2,669,875
390: 2,669,876
398: 2,669,877
74—230.3: 2,669,878
253: 2,669,879
360: 2,669,880
421: 2,669,881
495: 2,669,882
503: 2,669,883
2,669,884
750: 2,669,885
75— 52: 2,670,283
93: 2,670,284
76— 80: 2,669,886
77— 2: 2,669,887
4: 2,669,888
55: 2,669,889
56: 2,669,890
80— 19: 2,669,891
56: 2,669,892
58: 2,669,893
81— 13: 2,669,894
15: 2,669,895
128: 2,669,896
84— 380: 2,669,897
86— 10: 2,669,898
88— 14: 2,669,899
24: 2,669,900
26: 2,669,901
33: 2,669,902
47: 2,669,903
90— 1.6: 2,669,904
2,669,905
7: 2,669,906
2,669,907
13.7: 2,669,908
56: 2,669,911
92— 42: 2,669,909
43: 2,669,910
53: 2,669,912
93— 1: 2,669,913
51: 2,669,914
94— 44: 2,669,915
95— 7: 2,670,285
2,670,286
2,670,287
8: 2,670,288
44: 2,669,916
60: 2,669,917
97— 23: 2,669,918
40: 2,669,919
233: 2,669,920
98— 1.5: 2,669,921
2,669,922
99.8: 2,669,923
99— 2: 2,670,289
80: 2,670,290
91: 2,670,291
126: 2,670,292
140: 2,670,293
176: 2,670,294
188: 2,670,295
194: 2,670,296
236: 2,669,924
391: 2,669,925
101— 66: 2,669,926
148: 2,669,927
102— 20: 2,669,928
2,669,929
93: 2,669,930
103— 1: 2,669,931
2: 2,669,932
23: 2,669,933
26: 2,669,934
38: 2,669,935
52: 2,669,936
53: 2,669,937
103— 115: 2,669,938
155: 2,669,939
220: 2,669,940
241: 2,669,941
104— 11: 2,669,942
105— 197: 2,669,943
2,669,944
106— 15: 2,670,297
40: 2,670,298
41: 2,670,299
43: Re.23,789
48: 2,670,300
57: 2,670,301
176: 2,670,302
271: 2,670,303
277: 2,670,304
107— 1: 2,669,945
2,669,946
2,669,947
12: 2,669,948
14: 2,669,949
108— 28: 2,669,950
111— 51: 2,669,951
112— 27: 2,669,952
52: 2,669,953
135: 2,669,954
136: 2,669,955
140: 2,669,956
113— 99: 2,669,957
104: 2,669,958
118: 2,669,959
114— .5: 2,669,960
67: 2,669,961
207: 2,669,962
208: 2,669,963
116— 135: 2,669,964
117— 4: 2,670,305
122: 2,670,306
138.8: 2,670,307
2,670,308
118— 5: Re.23,787
264: 2,669,965
119—14.49: 2,669,966
131: 2,669,967
157: 2,669,968
2,669,969
120— 51: 2,669,970
121— 38: 2,669,971
2,669,972
42: 2,669,973
122— 4: 2,669,974
459: 2,669,975
2,669,976
479: 2,669,977
123—41.31: 2,669,978
73: 2,669,979
2,669,980
90: 2,669,981
106: 2,669,982
140: 2,669,983
188: 2,669,984
126— 44: 2,669,985
128— 2.1: 2,669,986
64: 2,669,987
136: 2,669,988
153: 2,669,989
272: 2,670,121
291: 2,669,990
303: 2,669,991
321: 2,669,992
2,669,993
129— 26: 2,669,994
131— 10: 2,669,995
20: 2,669,996
133— 8: 2,669,997
2,669,998
134— 25: Re.23,788
101: 2,669,999
177: 2,670,000
135— 26: 2,670,133
136— 4: 2,670,394
136: 2,670,395
178: 2,670,396
137— 49: 2,670,001
98: 2,670,002
2,670,003
113: 2,670,004
137— 389: 2,670,005
407: 2,670,006
452: 2,670,007
592: 2,670,008
738: 2,670,009
138— 43: 2,670,010
44: 2,670,011
139— 11: 2,670,012
39: 2,670,013
336: 2,670,014
140— 121: 2,670,015
123.5: 2,670,016
143— 32: 2,670,017
33: 2,670,018
146— 61: 2,670,019
148— 11.5: 2,670,309
18: 2,670,310
150— 29: 2,670,020
151—41.72: 2,670,021
70: 2,670,022
152— 184: 2,670,023
211: 2,670,024
153— 48: 2,670,025
154— 1.8: 2,670,026
42: 2,670,027
75: 2,670,311
98: 2,670,312
116: 2,670,313
117: 2,670,314
122: 2,670,315
136: 2,670,316
155— 14: 2,670,028
36.5: 2,670,029
105: 2,670,030
124: 2,670,031
158— 4: 2,670,032
36: 2,670,033
118: 2,670,034
135: 2,670,035
159— 48: 2,670,036
160— 173: 2,670,037
177: 2,670,038
161— 1: 2,670,039
164— 76: 2,670,040
84.5: 2,670,041
2,670,042
2,670,043
96: 2,670,044
166— 12: 2,670,045
18: 2,670,046
21: 2,670,047
22: 2,670,048
170—135.4: 2,670,049
135.743: 2,670,050
160.25: 2,670,051
174— 6: 2,670,397
17.08: 2,670,398
50.51: 2,670,399
178— 5.4: 2,670,400
6.8: 2,670,401
7.3: 2,670,402
179— 6: 2,670,403
15: 2,670,404
18: 2,670,405
2,670,406
100.41: 2,670,407
171: 2,670,408
2,670,409
2,670,410
180— 10: 2,670,052
181— 27: 2,670,053
34: 2,670,054
183— 80: 2,670,055
83: 2,670,056
188— 10: 2,670,057
79.5: 2,670,058
2,670,059
189— 34: 2,670,060
37: 2,670,061
64: 2,670,062
192— 3: 2,670,063
4: 2,670,064
18: 2,670,065
194— 1: 2,670,066
196— 14: 2,670,317
17: 2,670,318
29: 2,670,319
196— 49: 2,670,320
50: 2,670,321
2,670,322
149: 2,670,323
197— 113: 2,670,067
127: 2,670,068
198— 1: 2,670,069
8: 2,670,070
220: 2,670,071
2,670,072
2,670,073
200— 18: 2,670,411
33: 2,670,412
34: 2,670,413
52: 2,670,414
70: 2,670,415
80: 2,670,416
83: 2,670,417
131: 2,670,418
143: 2,670,419
148: 2,670,420
152: 2,670,421
201— 48: 2,670,422
202— 39.5: 2,670,324
57: 2,670,325
204— 6: 2,670,326
248: 2,670,327
206—45.31: 2,670,074
47: 2,670,075
65: 2,670,076
209— 72: 2,670,077
172: 2,670,078
405: 2,670,079
210— 24: 2,670,328
55: 2,670,080
120: 2,670,081
150: 2,670,082
201: 2,670,083
211— 32: 2,670,084
59: 2,670,085
212— 65: 2,670,086
214— 11: 2,670,087
36: 2,670,088
140: 2,670,089
147: 2,670,090
307: 2,670,091
330: 2,670,092
515: 2,670,093
651: 2,670,094
653: 2,670,095
219— 6: 2,670,423
10: 2,670,424
39: 2,670,425
2,670,426
220— 32: 2,670,096
40: 2,670,097
47: 2,670,098
55.3: 2,670,099
85: 2,670,100
222— 1: 2,670,101
78: 2,670,102
82: 2,670,103
145: 2,670,104
251: 2,670,105
394: 2,670,106
474: 2,670,107
561: 2,670,108
223— 48: 2,670,109
72: 2,670,110
224— 5: 2,670,111
42.03: 2,670,113
42.1: 2,670,112
226— 19: 2,670,114
20.4: 2,670,115
23: 2,670,116
82: 2,670,117
86: 2,670,118
228— 25: 2,670,119
37: 2,670,120
229— 14: 2,670,122
27: 2,670,123
2,670,124
31: 2,670,125
2,670,126
37: 2,670,127
38: 2,670,128
93: 2,670,129

230— 24: 2,670,130
233— 14: 2,670,131
15: 2,670,132
235— 61.5: 2,670,134
98: 2,670,135
238— 155: 2,670,136
240— 6.46: 2,670,427
67: 2,670,428
78: 2,670,429
81: 2,670,430
108: 2,670,431
148: 2,670,432
241— 36: 2,670,137
58: 2,670,138
70: 2,670,139
91: 2,670,140
140: 2,670,141
208: 2,670,142
301: 2,670,143
242— 9: 2,670,144
13: 2,670,145
18: 2,670,146
27: 2,670,147
31: 2,670,148
35.5: 2,670,149
35.6: 2,670,150
41: 2,670,151
55.1: 2,669,756
66: 2,670,152
90: 2,670,153
128: 2,670,154
244— 13: 2,670,155
63: 2,670,156
77: 2,670,157
2,670,158
101: 2,670,159
104: 2,670,160
134: 2,670,161
135: 2,670,162
246— 63: 2,670,433

246— 124: 2,670,434
248— 47: 2,670,163
63: 2,670,164
103: 2,670,165
119: 2,670,166
264: 2,670,167
295: 2,670,168
324: 2,670,169
354: 2,670,170
250— 6: 2,670,435
33: 2,670,436
36: 2,670,437
2,670,438
43: 2,670,439
49.5: 2,670,440
83.3: 2,670,441
83.6: 2,670,442
105: 2,670,443
251— 31: 2,670,171
48: 2,670,172
131: 2,670,173
252— 8.5: 2,670,329
46.7: 2,670,330
62.5: 2,670,331
311.5: 2,670,332
254— 29: 2,670,174
124: 2,670,175
167: 2,670,176
184: 2,670,177
190: 2,670,178
255— 1.4: 2,670,179
1.8: 2,670,180
35: 2,670,181
256— 1: 2,670,182
257— 6: 2,670,183
137: 2,670,184
224: 2,670,185
245: 2,670,186
259— 3: 2,670,187
104: 2,670,188

260— 2: 2,670,333
2.1: 2,670,334
2,670,335
29.6: 2,670,336
31.2: 2,670,337
38: 2,670,338
41: 2,670,339
45.95: 2,670,340
70: 2,670,341
92.3: 2,670,342
96.5: 2,670,343
2,670,344
98: 2,670,345
181: 2,670,346
239: 2,670,347
240: 2,670,348
247.2: 2,670,349
256: 2,670,350
256.4: 2,670,351
297: 2,670,352
332.3: 2,670,353
340.7: 2,670,354
346.8: 2,670,355
372: 2,670,356
397.4: 2,670,357
397.45: 2,670,358
397.5: 2,670,359
404: 2,670,360
407: 2,670,361
426: 2,670,362
429: 2,670,363
449.6: 2,670,364
2,670,365
450: 2,670,366
461: 2,670,367
2,670,368
2,670,369
537: 2,670,370
557: 2,670,371
2,670,372

260— 558: 2,670,373
2,670,374
570: 2,670,375
570.5: 2,670,376
580: 2,670,377
596: 2,670,378
604: 2,670,379
2,670,380
2,670,381
609: 2,670,382
2,670,383
610: 2,670,384
632: 2,670,385
642: 2,670,386
653: 2,670,387
2,670,388
2,670,389
668: 2,670,390
677: 2,670,391
683.15: 2,670,392
2,670,393
261— 41: 2,670,189
262— 9: 2,670,190
263— 19: 2,670,191
44: 2,670,192
52: 2,670,193
265— 63: 2,670,194
70: 2,670,195
266— 25: 2,670,196
267— 1: 2,670,197
2,670,198
49: 2,670,199
63: 2,670,200
65: 2,670,201
271— 2.17: 2,670,202
26: 2,670,203
273— 40: 2,670,204
43: 2,670,205
86: 2,670,206
101.2: 2,670,207

273— 137: 2,670,208
163: 2,670,209
274— 9: 2,670,210
10: 2,670,211
46: 2,670,212
47: 2,670,213
279— 36: 2,670,214
38: 2,670,215
280— 41: 2,670,216
43: 2,670,217
276: 2,670,218
281: 2,670,219
438: 2,670,220
281— 1: 2,670,221
285— 175: 2,670,222
193: 2,670,223
210: 2,670,224
286— 16: 2,670,225
287— 20: 2,670,226
53: 2,670,227
87: 2,670,228
90: 2,670,229
289— 8: 2,670,230
290— 38: 2,670,444
292— 99: 2,670,231
256.73: 2,670,232
294— 97: 2,670,233
99: 2,670,234
296— 49.2: 2,670,235
299— 24: 2,670,236
69: 2,670,237
86: 2,670,238
2,670,239
128: 2,670,240
150: 2,670,241
301— 5.7: 2,670,242
37: 2,670,243
2,670,244
2,670,245
39: 2,670,246

303— 31: 2,670,247
304— 14: 2,670,248
305— 8: 2,670,249
306— 25: 2,670,250
307— 88: 2,670,445
308— 4: 2,670,251
129: 2,670,252
207: 2,670,253
309— 12: 2,670,254
28: 2,670,255
29: 2,670,256
44: 2,670,257
46: 2,670,258
47: 2,670,259
310— 26: 2,670,446
66: 2,670,447
154: 2,670,448
209: 2,670,449
311— 84: 2,670,260
312— 10: 2,670,261
313— 84: 2,670,450
184: 2,670,451
231: 2,670,452
317— 249: 2,670,453
318— 16: 2,670,454
19: 2,670,455
30: 2,670,456
324— 41: 2,670,457
147: 2,670,458
333— 30: 2,670,459
71: 2,670,460
81: 2,670,461
96: 2,670,462
340— 147: 2,670,463
187: 2,670,464
265: 2,670,465
276: 2,670,466
328: 2,670,467
346— 22: 2,670,262

CLASSIFICATION OF DESIGNS

D 1— 2: Des. 171,545
D 3—11: Des. 171,524
D 9— 2: Des. 171,556
6: Des. 171,534
D14— 3: Des. 171,550
Des. 171,566
14: Des. 171,525
30: Des. 171,561

D19— 1: Des. 171,529
D22— 6: Des. 171,535
D26— 7: Des. 171,555
14: Des. 171,560
D29—17: Des. 171,558
23: Des. 171,541
D33—14: Des. 171,557
D34— 5: Des. 171,526

D44—15: Des. 171,551
21: Des. 171,544
29: Des. 171,567
D45— 4: Des. 171,562
D54—13: Des. 171,565
D56— 4: Des. 171,548
D58— 6: Des. 171,543
9: Des. 171,531

D58— 9: Des. 171,540
13: Des. 171,537
D61— 1: Des. 171,564
D62— 4: Des. 171,553
Des. 171,554
D67— 4: Des. 171,528
D74— 1: Des. 171,546
D81—10: Des. 171,539

D81—10: Des. 171,542
D83— 1: Des. 171,538
Des. 171,549
D85— 2: Des. 171,527
D86— 9: Des. 171,563
10: Des. 171,523
Des. 171,532
D91— 1: Des. 171,559

D92— 1: Des. 171,530
Des. 171,533
Des. 171,552
26: Des. 171,536
D93— 3: Des. 171,547

U. S. GOVERNMENT PRINTING OFFICE: 0—1954

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Des. 170,415. Shoehorn or the Like. Patented Sept. 15, 1953. Shoehorn, to be made of plastic, includes a balance feature so that it may also be used to perform a balance trick. To perform the trick, a belt or strap is first inserted in a notch of the shoehorn. Then by placing the spoon end of the shoehorn on the tip of a finger or other firm surface the shoehorn supports the belt or strap as if suspended by magic. (Owner) Thure Jaderborg, Jr., P. O. Box 508, Lindsborg, Kans. Groups 39—41—81—99; 40. Reg. No. 52,644.

Pat. 2,651,841. Dental Clamp. Patented Sept. 15, 1953. Clamp for holding a dental matrix band around a tooth to retain a filling in the tooth in place until the filling hardens. The clamp comprises a split circular spring metal body member with jaws on its ends at substantially right angles to the body member. The jaws of the clamp are serrated on their inner coacting faces to grip the matrix band. Cup-shaped projections extend downwardly at right angles from the body member in opposite direction from the jaws for manipulating the device. (Owner) Howard C. Peterson, 512 National Bank of South Dakota Building, Sioux Falls, S. Dak. Group 39—17. Reg. No. 52,645.

Pat. 2,549,904. Trigger-Adjusting Means for Firearms. Patented Apr. 24, 1951. Means for adjusting a firearm trigger to eliminate slack and to minimize back lash, achieving the hair trigger desired in target shooting. In a firearm in which the sear is pivoted on a receiver intermediate its ends, with a spring operating at one end of the sear to normally urge a lug on the other end into engagement with a notch in a cocking piece, the trigger includes a cam portion whereby a rearward pull of the trigger disengages the lug from the notch. To shorten the trigger movement, a forwardly directed extension has been added to the trigger, with an adjusting screw therethrough engaging the under side of the sear. The screw may be so adjusted that the lug is almost disengaged from the notch, requiring only a slight pull of the trigger to completely release it and permit firing. To eliminate back lash, a similar extension is directed rearwardly, with a screw adjustable to engage the sear only when the lug has been cleared of the notch (Owner) Roy C. Hoard, 3924 Cambridge St., El Paso, Tex. Group 33—97. Reg. No. 52,646.

Pat. 2,594,778. Rust-Preventing Plug for Bores of Firearms. Patented Apr. 29, 1952. Device for preventing formation of rust in the bores of firearms by absorbing all moisture entering the bore. A close fitting dummy cartridge, comprising a hollow shell case and a hollow bullet, is insertable in the firing chamber, and a cork closes the nozzle end of the bore. The body of the cartridge is filled with porous moisture-absorbing material, such as silica gel. At least one vent in the bullet end communicates with the interior of the bore, and a vent in the shell case opens outwardly of the firing chamber. Thus as air is drawn into or expelled from the bore it necessarily passes through the body of desiccant. (Owner) Roy C. Hoard, 3924 Cambridge St., El Paso, Tex. Group 33—97. Reg. No. 52,647.

Pat. 2,374,024. Sanitary Phone Attachment. Patented Apr. 17, 1945. Molded one-piece plastic attachment for a telephone mouthpiece, for deodorizing the mouthpiece to eliminate traces of bad breath and offensive odors, may be readily snapped onto the mouthpiece. It consists of a split resilient band-like body having a perforated tubular container disposed inwardly from one side in slightly raised horizontal position above the body. A wick, moistened or impregnated with disinfectant or deodorant, is removably inserted in the container. The ends of the body are spaced apart so that the body will yieldingly grip the mouthpiece. The container is spaced sufficiently above the body to hold a pencil between the container and body. (Owner) Leon D. Levy, Skour-Nu, Inc., 42 West 15th St., New York 11, N. Y. Groups 39—81; 40. Reg. No. 52,648.

United States Government Owned Patents

The following 26 U. S. Letters Patent owned by the United States Atomic Energy Commission have been made available for licensing by the Commission. Licenses will be granted to applicants on a non-exclusive, royalty-free basis. Applicants for licenses should apply to the Chief, Patent Branch, Office of the General Counsel, U. S. Atomic Energy Commission, Washington 25, D. C., identifying the subject matter by patent number and title.

Pat. 2,658,150. Method and Apparatus for Focusing Charged Particles. Patented Nov. 3, 1953. The patent relates to the focusing of divergent beams of charged particles and more particularly covers an improved method and apparatus for electrostatically increasing the sharpness of foci of divergent ion beams in the electromagnetic separation of lons. Group 39—13. Reg. No. 52,649.

Pat. 2,658,452. Electromagnetic Pump. Patented Nov. 10, 1953. The invention relates to an improved electromagnetic pump for pumping electrically conducting liquids. The pump comprises a structure wherein the electrically conducting liquid is whirled in the pump chamber by the action of a rotating magnetic field and is forced out by centrifugal force through an aperture in the periphery of the chamber. Group 35—61. Reg. No. 52,650.

Pat. 2,658,909. Process for Separation and Purification of Alkyl Phosphoric Acids. Patented Nov. 10, 1953. This patent discloses a method for separating the mono- and di-alkyl esters of phosphoric acid comprising equilibrating a mixture thereof with a first phase exhibiting aqueous characteristics and a second phase from the group consisting of amyl alcohol, dibutyl carbitol, diisopropyl ether, dibutyl ether, methyl isobutyl ketone, and diethyl ether, separating said phases and washing the separated phases with the solvent of the other phase to remove minor amounts of the secondary component and thereby purifying the primary constituent extracted therein. Group 28—89. Reg. No. 52,651.

Pat. 2,658,981. Welding Beryllium and Beryllium Alloys. Patented Nov. 10, 1953. This patent covers a process of welding beryllium-base metals comprising welding said metals using a shield gas consisting of from 95 to 99.5% by volume of a noble gas and from 5 to 0.5% by volume of a fluorochlorohydrocarbon selected from the group consisting of fluorochloromethanes and fluorochloroethanes. Group 36—19. Reg. No. 52,652.

Pat. 2,658,999. Bevatron Acceleration Regulation. Patented Nov. 10, 1953. The patent discloses means for controlling the accelerating voltage in a particle accelerator of the bevatron type. The result is accomplished through the employment of an improved method and means of frequency modulating the accelerating voltage and means for initiating and terminating the application thereof in a particle accelerator. Group 36—19. Reg. No. 52,653.

Pat. 2,659,012. X-Ray Densitometer. Patented Nov. 10, 1953. The patent relates to an improved method and means for density measurement having no effect on or physical contact with the material under test. The invention contemplates the measurement of the comparative adsorption of particles or waves passed through a test sample and a standard sample as an indication of the relative densities thereof. Groups 36—13; 39—11. Reg. No. 52,654.

Pat. 2,659,013. Badge Meter. Patented Nov. 10, 1953. The patent covers a combination badge and radiation meter to be worn by individuals who are subjected to ionizing radiations. The device is adapted to measure both the amount and intensity of the radiations to which the wearer is exposed. Groups 36—13; 39—11. Reg. No. 52,655.

Pat. 2,659,589. Integrating Accelerometer. Patented Nov. 17, 1953. The patent relates to an integrating accelerometer, especially useful in recording the variations in velocity of any moving body. The invention employs a gas of which the rate of flow under a differential pressure is responsive to acceleration. Group 35—66. Reg. No. 52,656.

Pat. 2,659,822. Mass Spectrometer. Patented Nov. 17, 1953. The patent covers isotope separation equipment, and more particularly a mass spectrometer employing alternating electrostatic fields for the separation of isotopes of elements. The invention comprises an ion source, means for accelerating the ions into a transverse alternating electrostatic field for selectively deflecting ions of different masses, collectors for said ions spaced from said field, and means for decelerating the ions leaving said field for accentuating their deflection while traveling through the space to the collectors. Group 39—13. Reg. No. 52,657.

Pat. 2,659,826. Radiation Measuring Device. Patented Nov. 17, 1953. The patent pertains to a method and apparatus for measuring the absolute radioactivity of radioactive samples which emit charged particles. The method comprises collecting at least 99% of the particles emitted from a radioactive source in a given interval of time on two symmetrical conducting elements juxtaposed in insulated relation in an evacuated region, the confronting surfaces having substantially the same scattering and secondary electron producing characteristics with respect to charged particle radiation, and measuring the rate at which a charge is developed on at least one of said elements. Groups 36—13; 39—11. Reg. No. 52,658.

Pat. 2,660,677. Ion Selector. Patented Nov. 24, 1953. The patent covers a mass spectrometer and has for its object to provide improvements therein to increase the accuracy of the instrument. The improvement comprises means for producing a relatively weak magnetic field transverse to the direction of ion movement ahead of the collecting plate for rejecting stray electrons, the strength of said field being insufficient to appreciably deflect ions. Group 39—13. Reg. No. 52,659.

Pat. 2,662,001. Plate Design for Pulse Columns. Patented Dec. 8, 1953. The invention relates to pulse columns, and particularly it refers to perforated plates therefor. Stationary plates are disposed horizontally one above the other within the column. The plates are perforated to permit alternate passage of the fluids in opposite directions. In order to facilitate coalescence of each fluid after mixing and prior to passing through the perforations, opposite sides of each plate are composed of different material. The material on the top side is wettable by a heavier fluid, and the material on the lower side is wettable by a lighter fluid. Group 35—59. Reg. No. 52,660.

Pat. 2,662,072. Process for Copolymerization $CF_2=CF_2$ With $CFC_2=CFCl$. Patented Dec. 8, 1953. This patent covers a method for producing thermoplastic halocarbon polymers comprising copolymerizing tetrafluoroethylene and trifluoromonochloroethylene in the presence of trichloroacetyl peroxide as a polymerization promoter at a temperature in the range of −20° to 0° C. to produce a plastic copolymer composed of about 25% to about 85% by weight of tetrafluoroethylene and composed for the balance substantially entirely of trifluoromonochloroethylene. Group 28—83. Reg. No. 52,661.

Pat. 2,663,801. Transmission Fluorimeter. Patented Dec 22, 1953. The patent pertains to analysis of materials by measuring the fluorescence emitted therefrom when subjected to ultraviolet light and particularly relates to a new and improved fluorimeter apparatus. The invention utilizes the direct transmission of ultraviolet light through a comparatively thin sample of material and the measuring of the emitted fluorescent light at a relatively large solid angle along the extended axis of the impinging ultraviolet light. Groups 36—13; 39—11. Reg. No. 52,662.

Pat. 2,663,802. Neutron Detector. Patented Dec. 22, 1953. The patent discloses a method and apparatus for detection of neutrons. The apparatus comprises an electret for exposure to incident neutrons, means electrically coupled to said electret for detecting the changes in volume charge thereof induced by neutron bombardment, and means coupled to said detecting means for counting and indicating the time rate of occurrence of said charges, said rate being proportional to the rate of incidence of neutrons on said electret. Groups 36—13; 39—11. Reg. No. 52,663.

Pat. 2,664,449. Pyrolysis of Trifluorochloroethylene Polymers. Patented Dec. 29, 1953. This patent covers a process for preparing perhalocarbons of low and intermediate molecular weight by thermal degradation of high molecular weight solid polymers thereof. A solid polymer of monochlorotrifluoroethylene having a melting point of less than 200° C. is heated in a reaction zone at a temperature of from about 300° to 450° C. to cause pyrolysis thereof resulting in a major portion of materials of substantially higher molecular weight than the monomer. The pyrolysis products are distilled from the reaction zone as formed. Group 28—83. Reg. No. 52,664.

Pat. 2,664,515. Magnetic Electron Multiplier. Patented Dec. 29, 1953. The invention pertains to an electron multiplier capable of operating in a magnetic field. The apparatus comprises a homogeneous magnetic field, an electrically conductive plate located in said magnetic field and parallel to the lines of flux of said magnetic field, a plurality of secondary electron emission dynodes located in said magnetic field and disposed in echelon parallel relation with respect to said conductive plate, means for establishing a uniform electrostatic field between said plate and said dynodes, said electrostatic field being perpendicular to said magnetic field, means for causing the moving charged particles to be detected to impinge on the dynode most remote from said plate whereby secondary electrons are produced which are attracted and amplified by the remaining dynodes in successive steps, and means for collecting the amplified number of secondary electrons produced by the last dynode. Group 36—19. Reg. No. 52,665.

Pat. 2,664,998. Container for Neutron Irradiated Material. Patented Jan. 5, 1954. The patent covers hermetically sealed containers or receptacles adapted for use in the neutron irradiation of materials disposed therein and for the subsequent handling, storage, or treatment of such irradiated materials. One object of the invention is to produce a container assembly comprising a plurality of container elements each of which serves a complementary function contributing to the combined safe and expeditious handling of neutron irradiated materials. Group 33—96. Reg. No. 52,666.

Pat. 2,665,384. Ion Accelerating and Focusing System. Patented Jan. 5, 1954. The invention relates to ion accelerating and focusing systems and particularly to a system of electrodes for accelerating and focusing ions in electromagnetically operated equipment for the separation of substances or isotopes of elements, such as in calutrons for separating ions on a production scale. Group 39—13. Reg. No. 52,667.

Pat. 2,666,147. Spectrometer. Patented Jan. 12, 1954. The patent relates to improvements in a spectrometer wherein a curved reflecting surface is utilized to focus the incident rays of radiant energy. An object of the invention is to produce a radiant energy focusing spectrometer wherein the curved reflecting surface and the intensity indicator may be rotated to obtain a wave length spectrum of radiant energy from a stationary divergent source while simultaneously maintaining the necessary conditions to insure proper focusing. Group 39—13. Reg. No. 52,668.

Pat. 2,666,539. Rapid Operation Air Lock for Closed Vessels. Patented Jan. 19, 1954. The invention disclosed relates to air locks to provide access chambers adjacent closed vessels. The invention is concerned with air lock means for use with the vacuum vessels of mass spectrometers or the like. The invention provides a chamber or air lock sealingly secured to the apertured wall of a vacuum chamber and includes a spring pressed closure which is movable into sealing relation with the wall portion defining said aperture and having also a position of translation away from and to one side of said aperture whereby the use of a probe for carrying the radiation emitting substance axially of the aperture into the interior of the evacuated vessel is facilitated. Group 39—13. Reg. No. 52,669.

Pat. 2,666,865. Survey Instrument. Patented Jan. 19, 1954. The patent covers a radiation detection and survey equipment and particularly a pulse type of survey instrument for detecting the presence of alpha particles, beta particles, gamma rays, and slow and fast neutrons, which facilitates rapid survey of surfaces, tools, containers, and the like. Groups 36—13; 39—11. Reg. No. 52,670.

Pat. 2,667,104. Light Valve. Patented Jan. 26, 1954. The invention discloses a piezoelectric crystal operated oscillograph for visually indicating variable voltages without imposing a load on the voltage source. The invention operates on a principle that light interference is used to measure variations in an electric potential which is impressed across a piezoelectric crystal. Group 36—13. Reg. No. 52,671.

Pat. 2,667,178. Liquid Level Control. Patented Jan. 26, 1954. The patent discloses a device responsive to two limiting conditions. Specifically, the invention covers a device providing independent control of the upper and lower levels of a liquid in a container. The apparatus employs two measuring elements producing a change in electrical resistance in response to a change in the condition to be responded to and associated electronic circuitry controlled by any change sensed by said measuring elements. Groups 36—13; 39—11. Reg. No. 52,672.

Pat. 2,667,474. Heat Treatment of Polytrifluorochloroethylene. Patented Jan. 26, 1954. This patent covers a process for producing a tough, thermoplastic orientable polytrifluorochloroethylene comprising heating the polymer to above its transition temperature, rapidly quenching the hot polymer, and thereafter heating the quenched polymer for a relatively long time to a temperature of at least 150° C. but below its transition temperature. Group 28—83. Reg. No. 52,673.

Pat. 2,667,582. Mass Separator. Patented Jan. 26, 1954. The invention pertains to arrangements and apparatus for magnetically and electrically influencing a beam of ions in order to resolve the ions into separate, distinguishable groups of like mass-to-charge ratios, and to further provide visual indicia of the value of these ratios as well as the relative abundance of the groups. Group 36—13—19. Reg. No. 52,674.

TRADE-MARKS

OFFICIAL GAZETTE, FEBRUARY 23, 1954

[VOL. 679. NO. 4]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 621,799. Angelo Bros. Limited, Calcutta, India. Filed Nov. 29, 1951.

GENPUR

For Shellacs and Lacs in Flake Form as Raw and Partly Prepared Materials for Use in Industry in the Further Manufacture of Articles and Materials.

Claims use since April 1949; and use in commerce between foreign nations and the United States since April 1949.

Ser. No. 621,801. Angelo Bros. Limited, Calcutta, India. Filed Nov. 29, 1951.

LUNAR

For Shellacs and Lacs in Flake Form as Raw and Partly Prepared Materials for Use in Industry in the Further Manufacture of Articles and Materials.

Claims use since September 1946.

Ser. No. 623,042. Coating Products, New York, N. Y. Filed Jan. 2, 1952.



Applicant disclaims "Brite" apart from the mark as shown.

For Metallized Cellulose Acetate and Polystyrene Sheets and Rolls in Transparent, Translucent, and Opaque Form for the Industrial Arts, Greeting Cards, Silk Screen, Toy and Decorative Industries, for Panels and Dials.

Claims use since Oct. 24, 1951.

Ser. No. 625,866. Povia Bros. Farms, Fort Myers, Fla. Filed Mar. 3, 1952.



No claim is made to exclusive right to use the words "Povia," "Bros," and "Farms" apart from the mark as shown, without disclaimer of any of applicant's common law rights.

For Cut Flowers.

Claims use since Jan. 10, 1952.

Ser. No. 635,241. Sierra Talc & Clay Company, Los Angeles, Calif. Filed Sept. 13, 1952.

YELLOWSTONE TALC

The word "Talc" is disclaimed apart from the mark as shown.

For Talc.

Claims use since on or about Dec. 31, 1949.

Ser. No. 638,651. Kimberly-Clark Corporation, Neenah, Wis. Filed Nov. 26, 1952. (Sec. 2f.)

KIMBERLY-CLARK

For Fiber Products in the Form of Sheets, Creped Wadding, and Fluff, Used Principally as Padding, Packaging, and Wiping Material, and for a Variety of Associated and Non-Associated Uses.

Claims use since 1927.

Ser. No. 639,072. Norfolk Hatchery, Norfolk, Nebr. Filed Dec. 5, 1952.

Nor-O-Cross

For Hatchery Chicks.

Claims use since Dec. 1, 1950.

Ser. No. 642,605. Associated Seed Growers, Incorporated, New Haven, Conn. Filed Feb. 24, 1953.

VIGOR GREEN

The word "Green" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 572,327.

For Grass Seed for Lawns.

Claims use since on or about Jan. 17, 1953.

Ser. No. 643,173. Midcontinent Chemical Company, Grove City, Ohio. Filed Mar. 5, 1953.

THERMOLITE

For Slabs of Material Used in Connection With Making Shoe Soles of Natural or Synthetic Rubber.

Claims use since Aug. 1, 1950.

Ser. No. 645,740. Stern's Nurseries, Inc., Geneva, N. Y. Filed Apr. 22, 1953. (Sec. 2f as to "Stern's.")

Stern's Thousand Flower

The word "Flower" is disclaimed apart from the trademark as shown in the drawing.

For Chrysanthemum Plants.

Claims use since Mar. 24, 1953, on the mark as shown; and since Jan. 28, 1948, on "Stern's."

Ser. No. 647,131. Acme Limestone Company, Fort Spring, W. Va. Filed May 18, 1953.

ACME ROCK DUST

The term "Rock Dust" is disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 579,875.

For Finely Ground High Calcium Limestone Used in Spraying Coal Mines To Prevent Explosions.

Claims use since Mar. 15, 1949.

Ser. No. 650,127. The Ruth Company, Denver, Colo. Filed July 10, 1953.

XOTOX

For High Quality Native Limerock.

Claims use since May 18, 1953.

Ser. No. 650,169. The Glidden Company, Cleveland, Ohio. Filed July 13, 1953.

CALVIS

For Limed Rosin.

Claims use since Apr. 27, 1953.

Ser. No. 651,091. Colonial Poultry Farms, Inc., Pleasant Hill, Mo. Filed July 30, 1953.



Applicant claims ownership of Registration No. 348,979.

For Live Poultry and Baby Chicks.

Claims use since Mar. 1, 1922.

CLASS 2

RECEPTACLES

Ser. No. 598,002. Canvas Specialty Company, New York, N. Y. Filed May 24, 1950.

Moms

For Insulated Bags Made of Plastic for Carrying Babies' Bottles, Thus Keeping Them Hot or Cold for Hours.

Claims use since Nov. 15, 1948.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 639,493. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

Applicant claims ownership of Registration No. 266,083.

For Bill Folds, Wallets, Pocketbooks, Key Cases, Purses, Brief Cases, Fitted or Traveling Toilet Cases, Portfolios, Overnight Bags, Fitted Hand Baggage, Hand Bags, Beach Bags, Suit Cases, Trunks, Hat Cases, Travelling Bags, and Bird Cages and Valises.

Claims use since 1867.

Ser. No. 639,510. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

Applicant claims ownership of Registration No. 266,083.

For Bill Folds, Wallets, Pocketbooks, Key Cases, Purses, Brief Cases, Fitted or Traveling Toilet Cases, Portfolios, Overnight Bags, Fitted Hand Baggage, Hand Bags, Beach Bags, Suit Cases, Trunks, Hat Cases, Travelling Bags, and Bird Cages and Valises.

Claims use since 1932.

Ser. No. 640,206. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Filed Dec. 31, 1952.



No claim is made to the wording "For Home, For Country and For God" and "Auxiliary" apart from the mark as shown. The portrait is fanciful. The lining in the drawing reproduces the lines appearing on the specimens. Applicant claims ownership of Registrations Nos. 528,273, 557,627, and others.

For Billfolds, Key Cases, Hand Luggage, Brief Cases, Portfolios, Wallets, Pocketbooks, and Pocket Secretaries.

Claims use since Oct. 24, 1947.

Ser. No. 647,733. United States Trunk Company, Fall River, Mass. Filed May 26, 1953.



For Foot Lockers, Wardrobe and Storage Trunks and Hand Luggage Comprising Travelling Cases of Leather, Imitation Leather, Fabric, Plastic or Combinations of Such Materials, and Including Hat and Shoe Cases, Weekend Cases, Wardrobe Cases, and Travelling Bags.

Claims use since Aug. 14, 1952.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 620,846. Freewax Corporation, Tallahassee, Fla. Filed Nov. 3, 1951.



The drawing is lined for green and brown. The green background color is disclaimed. No exclusive right is claimed in the words "Insecticidal," "Self," "Polishing," "Floor" and "Wax," or in the phrases "Self Polishing" and "Floor Wax," apart from the mark as shown.

For Self Polishing Floor Wax.

Claims use since Sept. 12, 1950.

Ser. No. 626,751. Schultz Shoe Company, Inc., St. Louis, Mo. Filed Mar. 20, 1952.

LEATHER MAGIC

The word "Leather" is disclaimed apart from the mark as shown and used.

For Shoe Polish.

Claims use since Feb. 21, 1952.

CLASS 5

ADHESIVES

Ser. No. 634,800. Philadelphia Quartz Company, Philadelphia, Pa. Filed Sept. 3, 1952.

3-WAY

For Silicate of Soda Adhesive Used for Uniting Fibrous Materials.

Claims use since July 11, 1952.

Ser. No. 648,207. Julius R. Teich, doing business as Superior Products Company, Boston, Mass. Filed June 3, 1953.

TRICK TACK

The term "Tack" is disclaimed apart from the mark as shown.
For Adhesive Wafers.
Claims use since Apr. 1, 1953.

Ser. No. 648,655. Eidelman Bros., Detroit, Mich. Filed June 12, 1953.

GREEN SEAL

The drawing is lined for green. Applicant disclaims the words "Products," "Quality," and "Service" apart from the mark as shown. Applicant claims ownership of Registration No. 409,476.
For Linoleum Paste, Wallboard Paste, Asphalt Emulsions, Asphalt Tile Cement Cutback, Asphalt Primer and Waterproof Wallboard Cement, Used for Uniting Fibrous Materials, Laying Tile and Linoleum, Cementing Wallboard, and Similar Adhesive Uses.
Claims use since Feb. 1, 1953.

Ser. No. 648,768. Marathon Corporation, Menasha, Wis. Filed June 15, 1953.

Branchtape

For Paper Adhesive Tape for Use as Self-Sealing Binding Tape for Stems, Corsages, Bouquets, Wreaths, Festoons, Garlands, and Similar Floral Arrangements.
Claims use since Apr. 3, 1953.

Ser. No. 650,372. Chas. A. Krause Milling Co., Milwaukee, Wis. Filed July 16, 1953.

GOLDEN HARVEST

For Gelatinized Wheat Flour Used as an Adhesive.
Claims use since Jan. 25, 1932.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 620,335. The Chemical Foundation, Inc., New York, N. Y. Filed Oct. 23, 1951.

448

For Insect Repellent Compositions.
Claims use since June 14, 1946.

Ser. No. 627,250. Bridgeport Brass Company, Bridgeport, Conn. Filed Mar. 29, 1952. (Sec. 2f.)

AER★A★SOL

For Insecticides.
Claims use since Oct. 3, 1945.

Ser. No. 636,914. American Cyanamid Company, New York, N. Y. Filed Oct. 21, 1952.

CYNOL

For Rewetting Agent and a Softener.
Claims use since Sept. 12, 1952.

Ser. No. 637,258. Lien Chemical Company, Franklin Park, Ill. Filed Oct. 27, 1952.

BUGACIDE

No claim is made to the word "Bug" apart from the mark as shown.
For Insecticide for General Garden Use.
Claims use since Sept. 11, 1950.

Ser. No. 639,354. C. K. Williams & Co., Easton, Pa. Filed Dec. 11, 1952.

KROMA RED

No claim is made to the exclusive use of the word "Red" apart from the mark as shown.
For Finely Divided Pigment Having a Variety of Uses in the Industrial Arts.
Claims use since Oct. 22, 1952.

Ser. No. 639,416. Cetesel S. A. R. L., Milan, Italy. Filed Dec. 13, 1952.

CELERSEL

Priority is claimed under Sec. 44(d). Italian application filed Nov. 26, 1952, Registration No. 112,876, dated Aug. 22, 1953.
For Chemical Preparation To Be Added to Dyeing Baths for Textile Fibres.

Ser. No. 640,697. Schenley Distillers, Inc., also doing business as The New England Distilling Company, New York, N. Y., and Covington, Ky. Filed Jan. 13, 1953.

EAGLE BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
For Denatured Rum Used for Industrial Purposes.
Claims use since December 1925.

Ser. No. 643,154. Glenbrook Chemical Company, Inc., New Haven, Conn. Filed Mar. 5, 1953.

ATAXO

For Deodorant Preparation for Space, Industrial, Commercial, Institutional, and Household Use.
Claims use since on or about Mar. 2, 1953.

Ser. No. 643,999. American Cyanamid Company, New York, N. Y. Filed Mar. 23, 1953.

CYNOL

For Defoamer.
Claims use since Jan. 23, 1953.

Ser. No. 646,657. Dodge & Olcott, Inc., New York, N. Y. Filed May 8, 1953.

DIPAROME

For Masking Odorants.
Claims use since Mar. 26, 1953.

Ser. No. 646,769. Imperial Paper and Color Corporation, Glens Falls, N. Y. Filed May 11, 1953.

LUMIGRAPHIC

For Fluorescent Pigment Colors.
Claims use since Apr. 23, 1953.

Ser. No. 647,387. American Cyanamid Company, New York, N. Y. Filed May 21, 1953.

CYANATEX

Applicant claims ownership of Registration No. 559,674.
For Rosin Size, Soluble Wax, Softener, Anti-Foam, Sulfonated Tallow, and Sulfonated Castor Oil.
Claims use since during May 1952.

Ser. No. 650,093. Cleveland Aerosol Packaging Corporation, Cleveland, Ohio. Filed July 10, 1953.

O-GO

For Deodorant for Garbage Cans.
Claims use since May 6, 1953.

Ser. No. 650,161. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed July 13, 1953.

ASTROTONE

For Synthetic Musk for Use in Manufacturing and Compounding Perfumes, Toilet Water, Cosmetics, Soaps, and Related Materials.
Claims use since on or about February 1937.

Ser. No. 650,257. Kelite Products, Inc., Los Angeles, Calif. Filed July 14, 1953.

KEYKOTE

For Chemical Compound Which, When Dissolved in Water, Is Used in the Treatment of Steel To Inhibit Oxidation or Corrosion and To Provide a Bond for Paint.
Claims use since Apr. 26, 1951.

Ser. No. 650,263. Lake States Yeast Corporation, Rhinelander, Wis. Filed July 14, 1953.

TORANIL

For Lignin Preparation Consisting Essentially of Desugared Calcium Lignosulphonate Obtained as a By-Product From the Treatment of Waste Sulphite Liquors and Useful as an Ingredient in the Making of Portland Cement Compositions, Adhesives, and the Like.
Claims use since Apr. 21, 1953.

Ser. No. 650,360. E. F. Drew & Co., Inc., New York, N. Y. Filed July 16, 1953.

DRUSIL

For Liquid Composition Used for Impregnating Textile Fibers To Impart Fastness and Render Fibers Resistant to Staining and to Spotting by Water and Other Substances.
Claims use since May 14, 1953.

Ser. No. 650,454. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed July 17, 1953.

3M COMPANY

No registration rights are sought in the term "Company" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 396,917, 542,961, and others.
For Fluorochemicals.
Claims use since at least as early as July 15, 1949.

Ser. No. 650,532. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed July 20, 1953.

PENNSALT

For Chemical Substances Used To Treat Metals for Chemical Modification of the Metal Surfaces, Either Preparatory to Painting or To Increase Corrosion Resistance or Preparatory to Stamping, Drawing, Extruding, or Other Forming or Deforming Operations, or To Make the Surfaces More Receptive to Coating Materials or Lubricants.
Claims use since Nov. 23, 1951.

Ser. No. 650,569. Alliance Color and Chemical Co., Newark, N. J. Filed July 21, 1953.

STABASOL

For Dyestuffs.
Claims use since Jan. 1, 1952.

Ser. No. 650,688. Ciba Limited, Basel, Switzerland. Filed July 23, 1953.

MICRACETE

Priority is claimed under Sec. 44(d). Swiss application filed May 13, 1953, Registration No. 146,658, dated May 13, 1953.
For Coal Tar Colors.

Ser. No. 650,689. Ciba Limited, Basel, Switzerland. Filed July 23, 1953.

MICROLITH

Priority is claimed under Sec. 44(d). Swiss application filed May 13, 1953, Registration No. 146,659, dated May 13, 1953.
For Coal Tar Colors.

Ser. No. 650,853. Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Filed June 22, 1953.

PITTSBURGH **PX**

No claim is made to the word "Pittsburgh" apart from the mark as shown.
For Plasticizers.
Claims use since Mar. 14, 1950.

Ser. No. 651,085. Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany. Filed July 30, 1953.

Pilate

For Dyestuffs.
Claims use since June 18, 1951, in commerce between Germany and the United States.

Ser. No. 651,119. National Pigment Company, Inc., Philadelphia, Pa. Filed July 30, 1953.

NATCO

Applicant claims ownership of Registration No. 437,804.
For Exothermic Chemical Additive to Molten Iron and Steel for Prolongation of Heat and Fluidity To Improve the Quality of Castings.
Claims use since July 1, 1947.

CLASS 7
CORDAGE

Ser. No. 646,674. K. Kinzler, New York, N. Y. Filed May 8, 1953.



The pictorial representation of the football player shown on the drawing is fanciful.
For Rope, Twine, and Cord.
Claims use since Dec. 15, 1939.

Ser. No. 650,750. Toyo Rayon Co., Ltd., Tokyo, Japan. Filed July 23, 1953.

Amilan

Applicant claims ownership of Japanese Registration No. 397,950, dated Apr. 2, 1951.
For Twine, Rope, and Cordage Made of Nylon and Other Materials.

CLASS 11
INKS AND INKING MATERIALS

Ser. No. 645,728. Quest Manufacturing Company, Chicago, Ill. Filed Apr. 22, 1953.

Conquest

Applicant claims ownership of Registration No. 409,578.
For Typewriter Ribbons and Carbon Paper.
Claims use since Apr. 21, 1932.

CLASS 12
CONSTRUCTION MATERIALS

Ser. No. 597,977. Prasse Lumber and Material Company, Rocky River, Ohio. Filed May 23, 1950. (Sec. 2f.)

"WOOD THAT'S GOOD"

Applicant claims ownership of Registration No. 143,832.
For Lumber.
Claims use since Jan. 31, 1913.

Ser. No. 627,007. Pease Woodwork Company, Inc., Cincinnati, Ohio. Filed Mar. 25, 1952. (Sec. 2f.)

SLIDE-A-SASH

Applicant claims ownership of Registrations Nos. 513,016 and 386,884.
For Weather Stripped Window Units.
Claims use since Jan. 19, 1951.

Ser. No. 627,103. Weathermaster Jalousie and Window Manufacturing Company, Opa Locka, Fla. Filed Mar. 26, 1952.

Weathermaster Jalousie & Window

Applicant disclaims the exclusive use of the words "Jalousie & Window" as embodied in their mark.
For Aluminum Windows, Aluminum Jalousies, and Glass Jalousies.
Claims use since July 15, 1947.

Ser. No. 629,664. The General Tire & Rubber Company, Akron, Ohio. Filed May 14, 1952.

GENFLOR

For Rigid Plastic Forms Like Tile for Use as Floor Covering.
Claims use since Oct. 18, 1951.

Ser. No. 637,896. United States Gypsum Company, Chicago, Ill. Filed Nov. 10, 1952.

PERF-A-BEAD

The word "Bead" is disclaimed apart from the mark as shown in the drawing.
For Corner Bead.
Claims use since May 2, 1952.

Ser. No. 640,943. Lami-Glas Products Company, Detroit, Mich. Filed Jan. 19, 1953.

Sun-Glas

No claim is made to the word "Glas" separate and apart from the remainder of the mark.
For Awning Made of Fiber Glass Plastic Sheet Material.
Claims use since July 20, 1952.

Ser. No. 641,729. Isoleringsaktiebolaget WMB, Goteborg, Sweden. Filed Feb. 4, 1953.

WELLIT

Applicant claims ownership of Swedish Registration No. 53,572, dated Sept. 9, 1940.
For Heat Insulating Materials of the Multilayer Type, Particularly Such Materials Comprised of Paper or Cardboard.

Ser. No. 641,731. Isoleringsaktiebolaget WMB, Goteborg, Sweden. Filed Feb. 4, 1953.

PERORIT

Applicant claims ownership of Swedish Registration No. 55,023, dated Oct. 4, 1941.
For Perforated Acoustical Tiles of Fibrous Material for Interior Wall and Ceiling Surfaces.

Ser. No. 643,314. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed Mar. 9, 1953.

SOAB

For Acoustic Panels of Solid Flexible Material.
Claims use since Nov. 15, 1952.

Ser. No. 644,341. Owens-Corning Fiberglas Corporation, Toledo, Ohio. Filed Mar. 27, 1953.

AEROWRAP

Applicant claims ownership of Registrations Nos. 551,519 and 568,275.
For Thermal Insulation, Particularly Pipe and Duct Insulation, in the Form of Blankets or Mats of Fibrous Material Especially Fibrous Glass.
Claims use since January 1953.

Ser. No. 645,191. The Sawhill Manufacturing Company, Wheatland, Pa. Filed Apr. 13, 1953.

HEF-T-POST

The word "Post" and the representation of the post apart from the mark as shown in the drawing are disclaimed. The vertical hatching on the term "Hef-t-Post" in the drawing does not designate a color.
For Posts for Supporting Floors and the Like.
Claims use since Jan. 10, 1953.

Ser. No. 645,210. Western Veneer Company, Eugene, Oreg. Filed Apr. 13, 1953.

Western WP Ply

The word "Ply" is disclaimed apart from the mark as shown in the drawing.
For Plywood.
Claims use since Dec. 12, 1952.

Ser. No. 645,515. Otto E. Stelzer, doing business as Lavador Mfg. Co., South Bend, Ind. Filed Apr. 17, 1953.

LAVADOR

For Sliding Doors for Shower and/or Bath Enclosures.
Claims use since Feb. 4, 1953.

Ser. No. 645,640. Emerson Industries, Inc., St. Albans, N. Y. Filed Apr. 21, 1953.

EI

For Storm Windows, Storm Doors, Louver Windows, Combination Windows, and Combination Doors.
Claims use since Jan. 1, 1951.

Ser. No. 645,996. Libbey-Owens-Ford Glass Company, Toledo, Ohio. Filed Apr. 27, 1953.

MAXLITE

For Semi-Rigid Plastic Sheets for Use as Walls, Roofs, Partitions, Outdoor Signs, Canopies and Awnings, and Panelling Facings—Namely, Restaurant and Bar Fixtures.
Claims use since Dec. 7, 1951.

Ser. No. 648,254. Lamar Pipe and Tile Company, Grand Rapids, Mich. Filed June 4, 1953.

LO LINE

For Concrete Pipe.
Claims use since Apr. 6, 1953.

Ser. No. 648,255. Lamar Pipe and Tile Company, Grand Rapids, Mich. Filed June 4, 1953.

LO-HED

For Concrete Pipe.
Claims use since Apr. 6, 1953.

Ser. No. 651,412. Puget Sound Plywood, Inc., Tacoma, Wash. Filed Aug. 5, 1953.

GRAINGLO

For Plywood.
Claims use since Apr. 8, 1953.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 609,013. Wedge Protectors, Inc., Cleveland, Ohio. Filed Jan. 19, 1951.

WEDGE

For Metal Thread Protectors and Paper-Lined Metal Thread Protectors for Covering the Screw Threads of Pipes, Rods, Conduits, and Other Metal Members; Welding Rings and Chill Rings for Use in Making Welded Joints Between Tubular Members; Sheet Metal Caps for Application to Threaded or Unthreaded Ends of Pipes, Conduits, and Other Metal Members; Sheet Metal Closure Plugs for Closing Access or Temporary Openings of Walls, End Openings of Tubular Non-Metallic Containers, and Openings of the Passages of Conduits, and for Temporarily Closing the Openings of Manufactured Products, or of Products or Devices in Process of Manufacture, Shipment, or Installation; and Sheet Metal Core Plugs for Use in the Ends of Rolls of Paper or Other Sheet Material.
Claims use since Feb. 23, 1950.

Ser. No. 634,895. The Engineered Products Company, Flint, Mich. Filed Sept. 5, 1952.

MAGNA-TITE

The term "Tite" is disclaimed apart from the mark as shown.
For Magnetic Catches for Holding Doors or Closure Members on Cabinets, Cupboards, and the Like in Closed Position.
Claims use since May 1, 1952.

Ser. No. 636,331. Akron Brass Mfg. Company, Inc., Wooster, Ohio. Filed Oct. 8, 1952.

STA-LOC

For Hose Line Couplings.
Claims use since June 25, 1952.

Ser. No. 646,417. Daniel O. Norland, Cypress, Calif. Filed May 4, 1953.

RAIN-WAY

For Lawn Sprinklers.
Claims use since Sept. 23, 1929.

Ser. No. 651,354. Ottavia Incorporated, New York, N. Y. Filed Aug. 4, 1953.

OTTAVIA

For Curtain Clips.
Claims use since on or about Oct. 28, 1952.

Ser. No. 651,445. Garden City Plating & Mfg. Co., Chicago, Ill. Filed Aug. 6, 1953.

ADAPT-A-FRAME

For Components and Fittings for Construction of Convertible Merchandise Display Fixtures—Namely, Basic Frame Members—Namely, Base Uprights, Extension Uprights, Divider Uprights and Corners; Connector Fittings—Namely, Corner Fittings, T Fittings, and Cross Fittings; Prefabricated Frame Assemblies; Gussets for Connecting Frame Members; Base Plates; Legs and Supports; Shelf Brackets and Clips Therefor; Stabilizers for Supporting Heavily Loaded Shelves; Sign Holders; Crossbars; Merchandise Display Fittings—Namely, Bars, Hangers, and Racks; Hang Rails and Sockets Therefor; Brackets for Supporting Hang Rails; Slotted Pilaster Standards.
Claims use since on or about May 29, 1953.

Ser. No. 651,511. General Metals Corporation, San Francisco, Calif. Filed Aug. 7, 1953.

For Pipe Fittings, Pipe Couplings, and Pipe Nipples.
Claims use since September 1952.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 638,531. L. Goldstein's Sons, Inc., Philadelphia, Pa. Filed Nov. 24, 1952.

RAINBOW

For Babbitt Metal, Solder Wire, Solder Bars, Lead Bars, Tin Bars, and Bars of Low Melting Point Metals.
Claims use since June 1, 1905.

Ser. No. 643,018. Ahlmann-Carlshütte Kommanditgesellschaft, Rendsburg, Germany. Filed Mar. 3, 1953.

AHLMANN

The word "Ahlmann" is disclaimed apart from the mark as a whole. Applicant claims ownership of German Registration No. 603,433, dated Dec. 18, 1950.
For Metal Castings.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 533,361. Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Filed Sept. 4, 1947. (Sec. 2f as to "Pheland's.")

Phelan's

LOX

For Wood Sanding Sealer and Filler.
Claims use since Mar. 25, 1942.

Ser. No. 566,995. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed Oct. 14, 1948.

Coro-Gard

For Paint-Like Protective Coating Sold in Liquid Form Useful, for Example, in Coating Tanks and Conduits To Resist the Corrosive Effects of Petroleum Fractions.
Claims use since at least as early as May 1948.

Ser. No. 588,417. Wieboldt Stores, Inc., Chicago, Ill. Filed Nov. 26, 1949. (Sec. 2f.)

Painters Pure

For Ready Mixed Paint, Enamel, Varnish, Varnish Stain, Ready Mixed Interior Gloss Paint, Oil Stain, Linoleum Lacquer, Ready Mixed Deck Paint, Ready Mixed House Paint, and Ready Mixed Barn and Roof Paint.
Claims use since Dec. 31, 1910.

Ser. No. 605,429. Lawter Chemicals, Inc., Chicago, Ill. Filed Oct. 25, 1950.

LAWTER'S LUV-AD

Applicant disclaims the word "Lawter's" separate and apart from the mark as shown.
For Fluorescent Paint.
Claims use since Oct. 12, 1950.

Ser. No. 623,011. Pollak Luminescent Corp., Chicago, Ill. Filed Dec. 29, 1951.

FLOR-ES-IT

For Fluorescent Paint-Like Coating Compositions Containing Fluorescent Chemicals and Lacquer for Use on Posters, Murals, Billboards, Window Displays, and the Like for Imparting Fluorescent Properties Thereto.
Claims use since on or about Dec. 4, 1951.

Ser. No. 631,364. Benjamin Moore & Co., New York, N. Y. Filed June 18, 1952.

Security

For Ready Mixed Paints, Enamels, Varnishes, and Surface Primers.
Claims use since June 1, 1917.

Ser. No. 638,464. American Chemical Paint Company, Ambler, Pa. Filed Nov. 22, 1952.

GRANODRAW

Applicant claims ownership of Registrations Nos. 297,162 and 531,554.
For Chemical Composition in Both Solid and Liquid Form for Producing Protective Non-Metallic Chemical Coatings on Metallic Surfaces Before the Deformation Thereof.
Claims use since on or before Feb. 1, 1951.

Ser. No. 639,461. Swan-Finch Oil Corporation, New York, N. Y. Filed Nov. 19, 1952.

SAFCO

Applicant claims ownership of Registrations Nos. 307,001, 363,784, and 425,344.
For Liquid Asbestos Roof Coating.
Claims use since Oct. 20, 1949.

Ser. No. 644,876. James B. Sipe and Company, Pittsburgh, Pa. Filed Apr. 7, 1953.

Gold Crown

The lining is for the purpose of indicating gold color.
For Alkyd Flat Enamel.
Claims use since Feb. 4, 1953.

Ser. No. 645,416. Daniel D. Holder, doing business as Holco Manufacturing Co., Newark, N. J. Filed Apr. 16, 1953.

Wonder-Touch

No rights to registration of the word "Touch" are claimed apart from the mark as shown.
For Finishing Varnish for Touching Up Furniture.
Claims use since Jan. 10, 1953.

Ser. No. 648,109. Lewis Kimball Inc., Portland, Oreg. Filed June 2, 1953.

Kimbalene

For Formulated Chemical Paint and Varnish Additive Which Functions To Prevent Peeling, Cracking, and Blistering Action Therein.
Claims use since Dec. 15, 1947.

Ser. No. 651,797. American Machinery Corporation, Orlando, Fla. Filed Aug. 14, 1953.

CITRASHINE

For Edible Wax Coating Material for Fruits and Vegetables.
Claims use since on or about May 30, 1953.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 625,264. The Ray Ewing Company, Inc., Pasadena, Calif. Filed Feb. 20, 1952.

KALF-LIFT

Registration of the word "Kalf" is not claimed apart from the rest of the mark.
For Vitamin Preparation for Use in Calf Feed.
Claims use since June 5, 1951.

Ser. No. 635,403. Chemical Specialties Co., Inc., New York, N. Y. Filed Sept. 18, 1952.

NEODROL

For Medicinal Hormone Preparation.
Claims use since July 9, 1952.

Ser. No. 635,876. Donley-Evans & Company, St. Louis, Mo. Filed Sept. 27, 1952.

KALACET

For Medicine, a Non-Absorbable Sulfonamide With Electrolytes and Adsorbent.
Claims use since July 8, 1952.

Ser. No. 639,650. Bob Martin (Export) Limited, Southport, England. Filed Dec. 17, 1952.

STOCKSENSE

Applicant claims ownership of British Registration No. 613,645, dated Dec. 19, 1940.
For Poultry and Pig Conditioners and Medicinal Preparations for Poultry and Pigs.

Ser. No. 639,850. A. E. Staley Manufacturing Company, Decatur, Ill. Filed Dec. 20, 1952.

STAVITE

Applicant claims ownership of Registration No. 377,319.
For Feed Concentrate Containing Vegetable and Antibiotic Ingredients, for Poultry, Swine, Cattle, Sheep, Dogs, Cats, Fur-Bearing Animals, and Laboratory Animals.
Claims use since Nov. 12, 1952.

Ser. No. 641,028. S. F. Durst & Company, Inc., Philadelphia, Pa. Filed Jan. 21, 1953.

REGULIN

Applicant claims ownership of Registration No. 237,161.
For Medicinal Preparation for the Treatment of the Intestinal Tract and Capable of Admixture With All Types of Solid Food.
Claims use since in the year 1906.

Ser. No. 642,521. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed Feb. 20, 1953.

BRISTAPEN

Applicant claims ownership of Registrations Nos. 564,354, 569,924, 570,434, 575,516, and 579,670.
For Cold Remedy in Tablet Form.
Claims use since Sept. 15, 1952.

Ser. No. 642,565. Pharmakon, Inc., Minneapolis, Minn. Filed Feb. 20, 1953.

CLORA-VIM

For Vitamin and Mineral Supplement for Dog and Cat Foods.
Claims use since Jan. 15, 1953.

Ser. No. 644,704. Winthrop-Stearns Inc., New York, N. Y. Filed Apr. 3, 1953.

MONODRAL

For Anti-Cholinergic Preparation.
Claims use since Mar. 24, 1953.

Ser. No. 647,410. Tommie Fisher, doing business under the name of Fisher Laboratories, Chicago, Ill. Filed May 21, 1953.

OUR  FATHER

The picture is a photographic likeness of the applicant.
For Liquid Liniment for External Use.
Claims use since Feb. 2, 1953.

Ser. No. 647,901. Anglo-French Drug Company Ltd., Montreal, Quebec, Canada. Filed May 29, 1953.

PROPI-VAGINAL

The word "Vaginal" is disclaimed apart from the mark as shown.
For Medication for the Treatment of Vulva, Vaginal, and Like Disorders.
Claims use since Aug. 28, 1952.

Ser. No. 649,758. American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, New York, N. Y., and Philadelphia, Pa. Filed July 3, 1953.

BICILLIMYCIN

Applicant claims ownership of Registration No. 569,161.
For Penicillin, Dihydrostreptomycin and Streptomycin in Injectable Dosage Form.
Claims use since June 12, 1953.

Ser. No. 650,112. Dr. L. D. LeGear Medicine Company, St. Louis, Mo. Filed July 10, 1953. (Sec. 2f as to "Dr. LeGear's.")

 DR. LEGEAR'S STREPCIN

The picture and name shown is that of Dr. L. D. LeGear, V. S., deceased. Applicant claims ownership of Registrations Nos. 379,720, 293,263, and others.
For Streptomycin Sulfate Oral Veterinary Granules.
Claims use since May 30, 1953, on the mark as shown; and since Oct. 15, 1918, as to "Dr. LeGear's."

Ser. No. 651,919. Ives-Cameron Company, Inc., New York, N. Y. Filed Aug. 17, 1953.

DUOTINIC

For Hematinic in Dosage Form.
Claims use since Dec. 31, 1951.

Ser. No. 623,011. Pollak Luminescent Corp., Chicago, Ill. Filed Dec. 29, 1951.

FLOR-ES-IT

For Fluorescent Paint-Like Coating Compositions Containing Fluorescent Chemicals and Lacquer for Use on Posters, Murals, Billboards, Window Displays, and the Like for Imparting Fluorescent Properties Thereto.
Claims use since on or about Dec. 4, 1951.

Ser. No. 631,364. Benjamin Moore & Co., New York, N. Y. Filed June 18, 1952.

Security

For Ready Mixed Paints, Enamels, Varnishes, and Surface Primers.
Claims use since June 1, 1917.

Ser. No. 638,464. American Chemical Paint Company, Ambler, Pa. Filed Nov. 22, 1952.

GRANODRAW

Applicant claims ownership of Registrations Nos. 297,162 and 531,554.
For Chemical Composition in Both Solid and Liquid Form for Producing Protective Non-Metallic Chemical Coatings on Metallic Surfaces Before the Deformation Thereof.
Claims use since on or before Feb. 1, 1951.

Ser. No. 639,461. Swan-Finch Oil Corporation, New York, N. Y. Filed Nov. 19, 1952.

SAFCO

Applicant claims ownership of Registrations Nos. 307,001, 363,784, and 425,344.
For Liquid Asbestos Roof Coating.
Claims use since Oct. 20, 1949.

Ser. No. 644,876. James B. Sipe and Company, Pittsburgh, Pa. Filed Apr. 7, 1953.

Gold Crown

The lining is for the purpose of indicating gold color.
For Alkyd Flat Enamel.
Claims use since Feb. 4, 1953.

Ser. No. 645,416. Daniel D. Holder, doing business as Holco Manufacturing Co., Newark, N. J. Filed Apr. 16, 1953.

Wonder-Touch

No rights to registration of the word "Touch" are claimed apart from the mark as shown.
For Finishing Varnish for Touching Up Furniture.
Claims use since Jan. 10, 1953.

Ser. No. 648,109. Lewis Kimball Inc., Portland, Oreg. Filed June 2, 1953.

Kimbalene

For Formulated Chemical Paint and Varnish Additive Which Functions To Prevent Peeling, Cracking, and Blistering Action Therein.
Claims use since Dec. 15, 1947.

Ser. No. 651,797. American Machinery Corporation, Orlando, Fla. Filed Aug. 14, 1953.

CITRASHINE

For Edible Wax Coating Material for Fruits and Vegetables.
Claims use since on or about May 30, 1953.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 625,264. The Ray Ewing Company, Inc., Pasadena, Calif. Filed Feb. 20, 1952.

KALF-LIFT

Registration of the word "Kalf" is not claimed apart from the rest of the mark.
For Vitamin Preparation for Use in Calf Feed.
Claims use since June 5, 1951.

Ser. No. 635,403. Chemical Specialties Co., Inc., New York, N. Y. Filed Sept. 18, 1952.

NEODROL

For Medicinal Hormone Preparation.
Claims use since July 9, 1952.

Ser. No. 635,876. Donley-Evans & Company, St. Louis, Mo. Filed Sept. 27, 1952.

KALACET

For Medicine, a Non-Absorbable Sulfonamide With Electrolytes and Adsorbent.
Claims use since July 8, 1952.

Ser. No. 639,650. Bob Martin (Export) Limited, Southport, England. Filed Dec. 17, 1952.

STOCKSENSE

Applicant claims ownership of British Registration No. 613,645, dated Dec. 19, 1940.
For Poultry and Pig Conditioners and Medicinal Preparations for Poultry and Pigs.

Ser. No. 639,850. A. E. Staley Manufacturing Company, Decatur, Ill. Filed Dec. 20, 1952.

STAVITE

Applicant claims ownership of Registration No. 377,319.
For Feed Concentrate Containing Vegetable and Antibiotic Ingredients, for Poultry, Swine, Cattle, Sheep, Dogs, Cats, Fur-Bearing Animals, and Laboratory Animals.
Claims use since Nov. 12, 1952.

Ser. No. 641,028. S. F. Durst & Company, Inc., Philadelphia, Pa. Filed Jan. 21, 1953.

REGULIN

Applicant claims ownership of Registration No. 237,161.
For Medicinal Preparation for the Treatment of the Intestinal Tract and Capable of Admixture With All Types of Solid Food.
Claims use since in the year 1906.

Ser. No. 642,521. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed Feb. 20, 1953.

BRISTAPEN

Applicant claims ownership of Registrations Nos. 564,354, 569,924, 570,434, 575,516, and 579,670.
For Cold Remedy in Tablet Form.
Claims use since Sept. 15, 1952.

Ser. No. 642,565. Pharmakon, Inc., Minneapolis, Minn. Filed Feb. 20, 1953.

CLORA-VIM

For Vitamin and Mineral Supplement for Dog and Cat Foods.
Claims use since Jan. 15, 1953.

Ser. No. 644,704. Winthrop-Stearns Inc., New York, N. Y. Filed Apr. 3, 1953.

MONODRAL

For Anti-Cholinergic Preparation.
Claims use since Mar. 24, 1953.

Ser. No. 647,410. Tommie Fisher, doing business under the name of Fisher Laboratories, Chicago, Ill. Filed May 21, 1953.

OUR  FATHER

The picture is a photographic likeness of the applicant.
For Liquid Liniment for External Use.
Claims use since Feb. 2, 1953.

Ser. No. 647,901. Anglo-French Drug Company Ltd., Montreal, Quebec, Canada. Filed May 29, 1953.

PROPI-VAGINAL

The word "Vaginal" is disclaimed apart from the mark as shown.
For Medication for the Treatment of Vulva, Vaginal, and Like Disorders.
Claims use since Aug. 28, 1952.

Ser. No. 649,758. American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, New York, N. Y., and Philadelphia, Pa. Filed July 3, 1953.

BICILLIMYCIN

Applicant claims ownership of Registration No. 569,161.
For Penicillin, Dihydrostreptomycin and Streptomycin in Injectable Dosage Form.
Claims use since June 12, 1953.

Ser. No. 650,112. Dr. L. D. LeGear Medicine Company, St. Louis, Mo. Filed July 10, 1953. (Sec. 2f as to "Dr. LeGear's.")

 DR. LEGEAR'S STREPCIN

The picture and name shown is that of Dr. L. D. LeGear, V. S., deceased. Applicant claims ownership of Registrations Nos. 379,720, 293,263, and others.
For Streptomycin Sulfate Oral Veterinary Granules.
Claims use since May 30, 1953, on the mark as shown; and since Oct. 15, 1918, as to "Dr. LeGear's."

Ser. No. 651,919. Ives-Cameron Company, Inc., New York, N. Y. Filed Aug. 17, 1953.

DUOTINIC

For Hematinic in Dosage Form.
Claims use since Dec. 31, 1951.

Ser. No. 652,037. Smith Kline & French Laboratories, Philadelphia, Pa. Filed Aug. 19, 1953.

TELDRIN

Applicant claims ownership of Registrations Nos. 532,177 and 545,239.
For Antihistamine Preparation.
Claims use since Mar. 26, 1953.

Ser. No. 652,457. Erbtone, Inc., Nashua, N. H. Filed Aug. 28, 1953.

ERBTONE

For Laxative Herb Tablets.
Claims use since July 21, 1953.

CLASS 19

VEHICLES

Ser. No. 634,520. Carrozzeria Pinin Farina, Corso Trapani, Turin, Italy. Filed Aug. 27, 1952.

pininfarina

"Pinin Farina" is the name of a famous European designer whose consent to the use of his name is of record.
For Automobile Bodies.
Claims use since Jan. 1, 1930; and use in commerce between foreign nations and the United States since Apr. 21, 1948.

Ser. No. 647,150. Boles-Aero, Inc., also doing business under the firm name and style of Boles Mfg. Co., Burbank, Calif. Filed May 18, 1953.

MIRA MAR

"Mira" is a Spanish word which is a verb form of the verb "mirar" meaning "to look." "Mar" is a Spanish word meaning "sea."
For Trailer Coaches.
Claims use since Sept. 13, 1950.

Ser. No. 652,517. Ford Motor Company, Dearborn, Mich. Filed Aug. 31, 1953.

Continental

For Motor Cars.
Claims use since Sept. 20, 1940.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 615,830. The Haeger Potteries, Inc., Dundee, Ill. Filed June 28, 1951. (Sec. 2f as to "Haeger.")

Royal-Haeger

Applicant claims ownership of Registration No. 402,895.
For Electric Lamps.
Claims use since in the month of August 1939 as to the mark shown; and in the year 1914 as to the surname "Haeger."

Ser. No. 615,831. The Haeger Potteries, Inc., Dundee, Ill. Filed June 28, 1951. (Sec. 2f as to "Haeger.")

Royal Haeger

Applicant claims ownership of Registration No. 402,895.
For Electric Lamps.
Claims use since in the month of August 1939 as to the mark shown; and in the year 1914 as to the surname "Haeger."

Ser. No. 620,270. Raylite Electric Corp., New York, N. Y. Filed Oct. 20, 1951. (Sec. 2f.)

GREEN-CAP

Applicant claims ownership of Registration No. 362,551.
For Electric Lamp Sockets and Christmas Tree Lighting Outfits.
Claims use since July 12, 1937.

Ser. No. 632,806. United States Rubber Company, New York, N. Y. Filed July 19, 1952. (Sec. 2f.)

PEERLESS

Applicant claims ownership of Registrations Nos. 59,108 and 278,257.
For Battery Separators.
Claims use since April 1938.

Ser. No. 633,530. The Brown-Brockmeyer Company, Dayton, Ohio. Filed Aug. 6, 1952.

ROTA-VOLT

For Electrical Motors.
Claims use since Mar. 11, 1952.

Ser. No. 634,116. Ray-O-Vac Company, Madison, Wis. Filed Aug. 18, 1952.



Applicant claims ownership of Registrations Nos. 149,925, 242,884, and 550,048.
For Dry Cells and Dry Cell Batteries.
Claims use since on or before Apr. 1, 1950.

Ser. No. 634,890. Cleon Products, Inc., Phoenix, Ariz. Filed Sept. 5, 1952.

Cleon

For Neon Sign Control.
Claims use since Jan. 6, 1952.

Ser. No. 641,611. Electrical Fittings Corporation, Woodside, N. Y. Filed Feb. 2, 1953.

EFCORLET

For Obrotund Conduit Bodies and Accessories Therefor.
Claims use since September 1941.

Ser. No. 641,700. P. Wall Mfg. Company, Grove City, Pa. Filed Feb. 3, 1953.

TRIG-R-HEAT

For Electrically-Heated Soldering Irons.
Claims use since Jan. 15, 1953.

Ser. No. 651,429. All Channel Antenna Corporation, Woodside, N. Y. Filed Aug. 6, 1953.

POLYMICALENE

For Insulated Cable for High Frequency Electrical Systems.
Claims use since Aug. 3, 1953.

Ser. No. 651,457. Markel Electric Products, Inc., Buffalo, N. Y. Filed Aug. 6, 1953.

HEET-HAMP

For Electrically Heated Clothes Hamper Having a Drying Rack for the Clothes.
Claims use since Mar. 24, 1953.

Ser. No. 651,844. McGraw Electric Company, Chicago, Ill. Filed Aug. 14, 1953. (Sec. 2f.)

ROUND WOUND

Applicant claims ownership of Registrations Nos. 396,251, 563,290, and 573,495.
For Electrical Transformers.
Claims use since on or about Mar. 1, 1948.

Ser. No. 651,903. Commercial Enclosed Fuse Company of New Jersey, Guttenberg, N. J. Filed Aug. 17, 1953.

cefco

For Electrical Fuses.
Claims use since Oct. 14, 1944.

Ser. No. 651,904. Commercial Enclosed Fuse Company of New Jersey, Guttenberg, N. J. Filed Aug. 17, 1953.

cefco

For Electrical Fuses.
Claims use since Oct. 14, 1944.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 608,052. American Machine & Foundry Company, New York and Cheektowaga, N. Y. Filed Dec. 26, 1950.

AMF

Applicant claims ownership of Registrations Nos. 168,740, 194,535, and others.
For Bowling Pin and Ball Handling Apparatus—Namely, Bowling Pin Spotting and/or Respotting Machines for Use in Playing the Game of Bowling, and Control Units for Controlling the Operation of Such Machines, and Parts Pertaining to Such Apparatus; Bowling Pins; Bowling Alley Equipment—Namely, Pit Cushions; and Bowling Ball Lifts Used With Bowling Alleys and/or With Bowling Pin Spotting Machines, and Parts Therefor.
Claims use since approximately Aug. 22, 1945.

Ser. No. 637,870. William E. Hancock, Los Angeles, Calif. Filed Nov. 10, 1952.

Tornado

The mark comprises a fanciful representation of a tornado cloud with the word "Tornado" superimposed thereon.
For Artificial Fishing Lures.
Claims use since July 2, 1952.

Ser. No. 646,574. Portage Products, Aurora, Ohio. Filed May 6, 1953.

THIRD HAND

For Multi-Purpose Fishermen's Tools—Namely, Adjuncts in the Nature of Clamps Used To Tie Leader Knots and Thread Flies, and Fitted With a Sharpener for Hooks and Blades.
Claims use since Mar. 18, 1953.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 578,442. The Eimco Corporation, Salt Lake City, Utah. Filed May 9, 1949. (Sec. 2f.)

Rocker Shovel

For Power-Driven Loaders for Bulk Material.
Claims use since Apr. 1, 1944.

Ser. No. 578,661. The White Motor Company, Cleveland, Ohio. Filed May 11, 1949. (Sec. 2f as to "White.")

White
HYDRO-TORQUE

Applicant claims ownership of Registration No. 112,837.
For Transmission Gearing.
Claims use since Jan. 31, 1946, on the mark as shown: and since January 1909 on "White."

Ser. No. 616,759. The Carborundum Company, Niagara Falls, N. Y. Filed July 21, 1951.

NIAFRAX

Applicant claims ownership of Registrations Nos. 349,212 and 347,701.
For Refractory Parts—Namely, Venturi Nozzles, Combustion Chamber Liners, Venturi Nozzle Liners, and Cone Assemblies for Jet Propulsion Units Such as Rockets, Jet Engine After-Burners, and the Like.
Claims use since February 1949.

Ser. No. 624,322. Wade Baker, Burley, Idaho. Filed Jan. 31, 1952.

WADE'S WAY

For Spreaders Adapted To Be Attached to or Mounted on a Motor Vehicle From Which the Same Is Operated and Parts Thereof.
Claims use since Nov. 12, 1948.

Ser. No. 625,522. Choldun Manufacturing Corporation, New Haven, Conn. Filed Feb. 26, 1952.

Choldun

For Power-Operated High Pressure Liquid Pumping Unit for Flushing and Cleaning Automobile Cooling Systems, Power-Operated Pumping Unit for Draining and Flushing Automobile Oil Systems, and Automatic Spray Unit for Washing Automobiles.
Claims use since Mar. 30, 1948.

Ser. No. 626,768. Vaughan Mfg. Co., Chicago, Ill. Filed Mar. 20, 1952.

"QUAD FOLD"

The word "Fold" is disclaimed separate and apart from the mark as shown.
For Combination Hand Tool for Tapping Cans, Opening Bottles, and Cutting Seals.
Claims use since Feb. 22, 1952.

Ser. No. 627,868. Nelson L. Davis Company, Chicago, Ill. Filed Apr. 10, 1952.

NELDCO

For Coal and Ore Dressing and Treating Unit Comprising Sink and Float Separating Vessels, Screens, Magnetic Separators, Pumps, Conduits, Control Mechanisms, Supports and Enclosures Therefor, and Buildings Enclosing Such Machinery, and Parts Thereof.
Claims use since Aug. 1, 1951.

Ser. No. 634,685. Farmwell Welded Products Company, Ixonia, Wis. Filed Aug. 30, 1952.

FARMWELL

For Agricultural Spray Equipment—Namely, Tractor Power Sprayers and Gas Engine Driven Power Sprayers.
Claims use since June 15, 1947.

Ser. No. 636,432. Rodney Distributors, Incorporated, Chicago, Ill. Filed Oct. 9, 1952.

RODNEY

For Sewing Machines and Parts for Same.
Claims use since Nov. 1, 1950.

Ser. No. 637,824. Dwight A. Johnston, doing business as Hydraulic Power Equipment Company, North Lima, Ohio. Filed Nov. 8, 1952.

HYPECO

For Hydraulic Power Units Comprising Reservoir, Motor, Pump, and Control Valves for Operating Hydraulic Machinery.
Claims use since Oct. 30, 1951.

Ser. No. 637,915. Davidson, MacGregor & Company Limited, London, England. Filed Nov. 12, 1952.

KILTY

For Parts of Textile Machinery—Namely, Bobbins, and Spool Supports and Cores Known as "Cops" and "Centres," Made of Stainless Steel Dye Springs and the Like.
Claims use since Sept. 1, 1952, in Great Britain; and first used in commerce between Great Britain and the United States on Sept. 1, 1952.

Ser. No. 643,506. Refrigeration Engineering Company, Minneapolis, Minn. Filed Mar. 11, 1953.

KEN-KAY

For Milk Vending Machine.
Claims use since Dec. 15, 1952.

Ser. No. 643,680. Halberg Machinefabriek N. V., Weert, Netherlands. Filed Mar. 16, 1953.

Traveler

For Typewriters.
Claims use since Oct. 25, 1952, in Netherlands; and since Nov. 26, 1952, in commerce between the Netherlands and the United States.

Ser. No. 651,265. Kohler Co., Kohler, Wis. Filed Aug. 3, 1953. (Sec. 2f.)

KOHLER

Applicant claims ownership of Registrations Nos. 167,671 and 577,058.
For Internal Combustion Engines for Driving Generators and for General Power Application.
Claims use since Nov. 12, 1930.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 639,849. X. S. Smith, Inc., Red Bank, N. J. Filed Dec. 20, 1952.

Bulldog

For Pads Formed of Metallic Filaments for Garment Pressing Machines.
Claims use since Aug. 25, 1952.

CLASS 25

LOCKS AND SAFES

Ser. No. 653,999. Sargent & Greenleaf, Inc., Rochester, N. Y. Filed Sept. 30, 1953.

MP

Applicant claims ownership of Registration No. 541,059.
For Combination Locks.
Claims use since June 1949.

Ser. No. 655,356. Protectall Safe Corporation, Syracuse, N. Y. Filed Oct. 26, 1953.

Accountant

For Safes.
Claims use since on or about Nov. 1, 1948.

Ser. No. 655,357. Protectall Safe Corporation, Syracuse, N. Y. Filed Oct. 26, 1953.

Auditor

For Safes.
Claims use since on or about Nov. 7, 1950.

Ser. No. 655,359. Protectall Safe Corporation, Syracuse N. Y. Filed Oct. 26, 1953.

COMMERCIAL

For Safes.
Claims use since on or about Feb. 3, 1947.

Ser. No. 655,360. Protectall Safe Corporation, Syracuse, N. Y. Filed Oct. 26, 1953.

Custodian

For Safes.
Claims use since on or about May 5, 1950.

Ser. No. 655,362. Protectall Safe Corporation, Syracuse, N. Y. Filed Oct. 26, 1953.

Director

For Safes.
Claims use since on or about Nov. 7, 1950.

Ser. No. 655,363. Protectall Safe Corporation, Syracuse, N. Y. Filed Oct. 26, 1953.

Executive

For Safes.
Claims use since on or about Nov. 1, 1948.

Ser. No. 655,364. Protectall Safe Corporation, Syracuse, N. Y. Filed Oct. 26, 1953.

Gibraltar

For Safes.
Claims use since on or about Feb. 3, 1947.

Ser. No. 655,365. Protectall Safe Corporation, Syracuse, N. Y. Filed Oct. 26, 1953.

Industrial

For Safes.
Claims use since on or about Nov. 7, 1950.

Ser. No. 655,366. Protectall Safe Corporation, Syracuse, N. Y. Filed Oct. 26, 1953.

Resolute

For Safes.
Claims use since on or about Nov. 1, 1948.

Ser. No. 655,368. Protectall Safe Corporation, Syracuse, N. Y. Filed Oct. 26, 1953.

TREASURER

For Safes.
Claims use since on or about Feb. 3, 1947.

Ser. No. 655,369. Protectall Safe Corporation, Syracuse, N. Y. Filed Oct. 26, 1953.

Veep

For Safes.
Claims use since on or about Aug. 4, 1952.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 614,478. Aids Development Company, Inc., Cleveland, Ohio. Filed May 29, 1951.

KEY-RITE

No claim is made to the word "Key" apart from the mark.
For Appliance for Measuring and Indicating the Adjustment of Ink Supply Control Elements of Printing Press Rolls.
Claims use since October 1950.

Ser. No. 635,777. Lyon Metal Products, Incorporated, Aurora, Ill. Filed Sept. 25, 1952.

LYON

For Drawing Tables, and Accessories for Drawing Tables—Namely, Lockers.
Claims use since during the year 1941.

Ser. No. 635,912. Flite-Tronics, Inc., Burbank, Calif. Filed Sept. 29, 1952.

MB-3

For Aircraft Marker Beacon Receiver Including Direction-Indicating and/or Position-Indicating Means.
Claims use since May 23, 1952.

Ser. No. 636,429. Panellit, Inc., Chicago, Ill. Filed Oct. 9, 1952.

PANELGRAPH

Applicant claims ownership of Registration No. 577,378.
For Panel Boards With Integrated Diagrams and/or Recording and/or Indicating Instruments, Such as Thermometers, Pressure Gauges, Potentiometers, and the Like, and Component Parts Thereof.
Claims use since Apr. 14, 1949.

Ser. No. 651,077. Society for Visual Education, Inc., Chicago, Ill. Filed July 29, 1953.

Industrialist

For Film Strip Projectors.
Claims use since Feb. 19, 1953.

Ser. No. 651,464. Optical Gaging Products, Inc., Rochester, N. Y. Filed Aug. 6, 1953.

ESD

For Chart-Gages, Screens, Rules, and Scales for Optical Projectors.
Claims use since January 1950.

Ser. No. 651,570. Electrolog Corporation, Brooklyn, N. Y. Filed Aug. 10, 1953.

ELECTROLOG

For Automatic Computers for Cargo Handling Including Computers for Determining Center of Gravity of Cargo Aircraft.
Claims use since June 30, 1953.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 636,767. Bulova Watch Company, Inc., New York, N. Y. Filed Oct. 17, 1952.

Seabee

For Watches—Namely, Wrist or Strap Watches.
Claims use since Aug. 27, 1952.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 638,849. Gorham Manufacturing Company, Providence, R. I. Filed Dec. 2, 1952.

STARDUST

For Sterling Silver Flatware and Table Cutlery.
Claims use since Sept. 15, 1952.

Ser. No. 639,855. Thomas & Company, Seattle, Wash. Filed Dec. 20, 1952.

Love-Mate

For Diamond Rings.
Claims use since Dec. 6, 1952.

Ser. No. 639,856. Thomas & Company, Seattle, Wash. Filed Dec. 20, 1952.

Love-Mates

For Finger Rings.
Claims use since June 10, 1952.

Ser. No. 640,143. Louis Beauregard, Burbank, Calif. Filed Dec. 30, 1952.

the Chained Hearts key chain

A Beauregard ORIGINAL

The words "The," "Key Chain," and "A Beauregard Original" are disclaimed apart from the mark as a whole.
For Key Chain Made in Whole or in Part of Precious Metal.
Claims use since Nov. 24, 1952.

Ser. No. 647,505. Kousin Jewelry Company, Inc., New York, N. Y. Filed May 22, 1953.



Applicant disclaims the word "American" apart from the mark as shown. The line representation of a bride is fanciful and is not a particular person.
For Finger Rings—Namely, Wedding Bands and Engagement Rings.
Claims use since Nov. 15, 1952.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 629,151. Blissfield Manufacturing Company, Blissfield, Mich. Filed May 3, 1952. (Sec. 2f.)

BLISSFIELD

For Refrigerating Apparatus for Cooling Air and Liquids, and Used Particularly in Connection With Dehumidifiers, Bottle Beverage Coolers, Juice Dispensers, and Window Air Conditioners.
Claims use since Apr. 4, 1947.

Ser. No. 638,961. Louisville Tin and Stove Company, Louisville, Ky. Filed Dec. 4, 1952.

PROGRESS

For Refrigerators.
Claims use since May 16, 1920.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 583,543. Metalab Equipment Corp., Hicksville, N. Y. Filed Aug. 16, 1949.

METALAB

For Furniture, for the Laboratory, But Not Fitted With Laboratory Equipment—Namely, Cabinets, Hood Cabinets, Sink Cabinets, Benches, Drawers, Doors, and Panels Therefor.
Claims use since Aug. 15, 1944.

Ser. No. 635,903. Colonial Manufacturing Company, Zeeland, Mich. Filed Sept. 29, 1952.

C Treasure House

For Console Tables, Step-Up Tables, Tea Wagons, Servers, Book Cases, Table Desks, Buffets, Dining Tables, Refectory Tables, Beds, Dressers, Vanities, Secretaries, Mirrors, Chairs, Fireside Chairs, Arm Chairs, Side Chairs, Corner Chairs, Benches, Curio Cabinets, Nests of Tables, Coffee Tables, Lowboys, Lamp Tables, Commode Chests, Breakfronts, Credenza Book Cases, Hutches, Ladies' Desks, Highboys, Knee Desks, Typewriter Desks, Sideboards, Extension Tables, Secretary Desks, Revolving Tables, Drop-Leaf Tables, Night Stands, and Wall Shelves.
Claims use since Aug. 1, 1952.

Ser. No. 645,746. The Troy Sunshade Company, Troy, Ohio. Filed Apr. 22, 1953.

deauville
Casual Americana

No claim is made to the exclusive use of the word "Casual" apart from the mark shown in the drawing.
For Metal Frame Upholstered Indoor and Outdoor Furniture—Namely, Chairs, Contoured Chairs, Folding Chairs, Tables, Snack Stands, and Settees.
Claims use since May 1, 1952, as to the mark shown; and since in the year 1925 as to "Deauville."

Ser. No. 645,955. Colonial Products Company, Dallastown, Pa. Filed Apr. 27, 1953.

Yorktowne KITCHENS

No claim is made to the word "Kitchens" except in the association shown.
For Wood Base and Wall Kitchen Cabinets, Tables, Chairs, Wood Bathroom Cabinets, Linoleum Covered and Plastic Covered Counter Tops for Kitchen Base Cabinets and Sink Cabinets.
Claims use since Sept. 5, 1952.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 640,711. Air Controls, Inc., Cleveland, Ohio. Filed Jan. 14, 1953.

AIRBURST

For Air Circulating Fans in the Nature of Blowers and Exhaust Fans.
Claims use since on about Nov. 1, 1951.

Ser. No. 642,165. Radio Corporation of America, New York, N. Y. Filed Feb. 12, 1953.

RCA

For Gas Ranges, Such as Special Purpose Grates or Grids as Well as Grease Collecting Pans.
Claims use since Dec. 1, 1952.

Ser. No. 646,453. Victor J. Bergeron, San Francisco, Calif. Filed May 5, 1953.

TRADER VIC'S

Applicant claims ownership of Registrations Nos. 384,083, 401,121, and 401,742.
For Portable Barbecue Oven.
Claims use since Apr. 28, 1953.

Ser. No. 651,564. Robert F. Buchanan, Denver, Colo. Filed Aug. 10, 1953.

Red Rock

For Incinerators.
Claims use since Feb. 13, 1953.

Ser. No. 652,043. Admiral Corporation, Chicago, Ill. Filed Aug. 20, 1953.

Admiral

Applicant claims ownership of Registrations Nos. 273,655, 405,192, and others.
For Dehumidifiers and Humidifiers, and Room Air Conditioners.
Claims use since January 1952.

Ser. No. 652,190. Hall-Neal Furnace Company, Indianapolis, Ind. Filed Aug. 24, 1953.

VICTOR

Applicant claims ownership of Registrations Nos. 341,630, 397,264, and others.
For Warm Air Heating Furnaces With Air Conditioning Units, Warm Air Heating Furnaces With Air Circulating, Air Conditioning, Humidity Control, and Cooling Units.
Claims use since Apr. 4, 1901.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 652,377. Callahan Zinc-Lead Company, Inc., Amesbury, Mass. Filed Aug. 27, 1953.

PORTOVENT

For Wire Reinforced Fabric Hose.
Claims use since 1943.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 650,487. Capitol Records, Inc., Los Angeles, Calif. Filed July 20, 1953.



Applicant claims ownership of Registration No. 426,557.
For Grooved Phonograph Records.
Claims use since June 25, 1953.

CLASS 37

PAPER AND STATIONERY

Ser. No. 543,618. The McBee Company, Athens, Ohio. Filed Dec. 6, 1947.



For Statistical and Accounting Cards, Blank Checks, and Partially Printed Business Forms.
Claims use since on or about May 15, 1934.

Ser. No. 578,846. Eagle Pencil Company, New York, N. Y. Filed Mar. 25, 1949. (Sec. 2f.)

"Drysealed"

For Wood Encased Copying or Indelible Lead Pencils.
Claims use since May 2, 1941.

Ser. No. 601,728. Charles R. Hadley Company, Los Angeles, Calif. Filed Aug. 4, 1950.

SEALEDSPOT

For Partially Printed Forms and Blank Checks.
Claims use since Oct. 9, 1941.

Ser. No. 623,502. A. B. Dick Company, Niles, Ill. Filed Jan. 12, 1952.

ECONOMAT

For Coated Paper Lithographic Printing Plates and Coated Paper Lithographic Master Sheets.
Claims use since July 1948.

Ser. No. 633,541. Gavrin Tabulating Forms, Inc., New Rochelle, N. Y. Filed Aug. 6, 1952.

TabEasy

Applicant makes no claim of exclusive right in the word "Tab" apart from the complete mark shown in the drawing.
For Interleaved Business Forms—Namely, Sales Slips, Invoices, Bills of Lading, Receipts, and Other Forms Printed to Order for Business Records.
Claims use since February 1951.

Ser. No. 633,876. Glenn Q. Ripley, Jr., East Springfield, Pa. Filed Aug. 13, 1952.

The Connoisseurs

For Paper Place Mats for Table Use.
Claims use since May 1, 1952.

Ser. No. 638,652. Kimberly-Clark Corporation, Neenah, Wis. Filed Nov. 26, 1952. (Sec. 2f.)

KIMBERLY-CLARK

For Blank Paper, Wrapping Paper, and All-Purpose Paper Tissues.
Claims use since October 1872.

Ser. No. 651,209. Baker Paper Company, Oshkosh, Wis. Filed Aug. 3, 1953.

TABLART

For Tablets and Notebook Fillers.
Claims use since June 29, 1953.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 613,622. James L. Zoll, doing business as Zoll & Son, Baltimore, Md. Filed May 7, 1951. (Sec. 2f.)

A1-ZOLL SERVICE

For Photo Prints, Photostat Prints, Photographs, and Blueprints.
Claims use since Mar. 3, 1930.

Ser. No. 618,452. The Heald Machine Company, Worcester, Mass. Filed Sept. 6, 1951. (Sec. 2f as to "Heald.")

HEALD herald

Applicant claims ownership of Registration No. 288,938.
For Periodical Publication.
Claims use since July 1, 1947, as shown; and since Aug. 1, 1917, as to the title "The Heald Herald."

Ser. No. 619,181. Abercrombie & Fitch Company, New York, N. Y. Filed Sept. 25, 1951. (Sec. 2f.)

The Christmas Trail

For Catalogs Published One or More Times a Year.
Claims use since 1921.

Ser. No. 631,713. American Journal of Nursing Company, New York, N. Y. Filed June 25, 1952. (Sec. 2f.)

NURSING RESEARCH

For Printed Periodical Publication.
Claims use since June 2, 1952.

Ser. No. 637,125. Harlis, Incorporated, Miami, Fla. Filed Oct. 24, 1952.

CHIP SAUNDERS
and
THE ATOM-O-SPHERE

No claim is made to the words "Chip Saunders" apart from the mark as shown. The name "Chip Saunders" is fictitious.
For Monthly Publication.
Claims use since Feb. 1, 1952.

Ser. No. 641,690. The Progress Lithographing Co., Cincinnati, Ohio. Filed Feb. 3, 1953.

PANORAMIC

For Banner-Like Strips of Printed or Lithographed Paper Sold in Roll Form for Display Purposes.
Claims use since Jan. 19, 1953.

Ser. No. 642,623. Corning Glass Works, Corning, N. Y. Filed Feb. 24, 1953.

gaffer·news

The term "News" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 534,241.
For House Organ Issued Periodically.
Claims use since Feb. 2, 1953, as shown; and since July 3, 1943, as to the term "Gaffer."

Ser. No. 643,876. Whiting Milk Company, Boston and Charlestown Section of Boston, Mass. Filed Mar. 13, 1953.

Daisy Meadows

The name "Daisy Meadows" is fanciful.
For Printed Cards Containing Food Recipes and Printed Pamphlets Containing Descriptions and Advertisements of Foods.
Claims use since in or about November 1950.

Ser. No. 644,206. American Artists Group, Inc., New York, N. Y. Filed Mar. 26, 1953.

AMERICAN HERITAGE
Greetings

No claim is made to the words "American" and "Greetings," apart from the mark as shown on the drawing.
For Greeting Cards, Christmas Cards, and Greeting and Christmas Card Box Assortments.
Claims use since Mar. 1, 1953.

Ser. No. 647,020. Magazine Publishers, Inc., Chicago, Ill. Filed May 14, 1953.

MAZIE

Applicant claims ownership of Registration No. 548,438.
For Comic Magazines.
Claims use since September 1952 in the particular style of lettering shown; and since Oct. 10, 1950, as to "Mazie."

CLASS 39

CLOTHING

Ser. No. 540,999. F. Jacobson & Sons, Inc., New York, N. Y. Filed Nov. 13, 1947. (Sec. 2f.)

SLACK-JAMA

For Men's Pajamas.
Claims use since March 1939.

Ser. No. 618,135. Truval Manufacturers, Inc., New York, N. Y. Filed Aug. 27, 1951.

TRUVAL

TRU-SLOPE

Applicant claims ownership of Registrations Nos. 96,306, 376,349, and others.
For Outer Shirts for Men and Young Men.
Claims use since Aug. 3, 1951.

Ser. No. 618,453. Hy-Grade Sportswear Co. Inc., New York, N. Y. Filed Sept. 6, 1951.



The word "Casuals" is disclaimed apart from the mark as shown in the drawing.
For Men's Sport Suits and Coats, Casual Suits and Coats, Slacks, Shirt Coats, Tuxedos, Full Dress Summer Formals, and Waistcoats.
Claims use since May 11, 1951.

Ser. No. 620,373. Sport-Craft, Inc., New York, N. Y. Filed Oct. 23, 1951.

Travelcraft

For Ladies' and Misses' Dresses, Dress Ensembles Comprised of a Coat and Dress Combination or a Jacket or Dress Combination, Suits, Skirts, and Coats.
Claims use since Oct. 15, 1951.

Ser. No. 621,112. U. S. Knitwear Co., New York, N. Y. Filed Nov. 10, 1951.

Phan-Tum

For Bathing Suits Made of Elastic Thread With a Built In Girdle.
Claims use since April 1951.

Ser. No. 621,809. Blair Corset Company, Inc., Chicago, Ill. Filed Nov. 29, 1951.

Meteor

For Girdles, and Knitted Panties.
Claims use since Nov. 5, 1951.

Ser. No. 623,822. Cluett, Peabody & Co., Inc., Troy, N. Y. Filed Jan. 21, 1952.

STAY-ROLL

No registration rights to the word "Roll" apart from the mark are claimed.
For Men's Outer Shirts.
Claims use since Dec. 20, 1951.

Ser. No. 632,001. J. Schoenemen, Inc., Baltimore, Md. Filed June 30, 1952.

COOL MAGIC

No claim is made to the word "Cool" apart from the mark shown.
For Coats, Vests, Trousers, and Knickerbockers for Men, Youths, and Boys.
Claims use since June 19, 1952.

Ser. No. 636,388. Silver Knit Hosiery Mills, Inc., High Point, N. C. Filed Oct. 8, 1952.

SILVER BOND
SOKS

No claim is made to the word "Soks" apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 190,256.
For Men's Hosiery.
Claims use since Jan. 24, 1952.

Ser. No. 638,965. The Manhattan Shirt Company, New York, N. Y. Filed Dec. 4, 1952.

TUMBLEWEAVE

For Men's Outer Shirts of Cotton.
Claims use since Nov. 19, 1952.

Ser. No. 641,196. Mel Rose Mfg. Co., Dallas, Tex. Filed Jan. 23, 1953.

"MELROSHEEN"

For Men's Slacks.
Claims use since Nov. 5, 1952.

Ser. No. 641,641. M. C. Schrank Company, Bridgeton, N. J. Filed Feb. 2, 1953.

Puckerdown

For Women's and Girls' Pajamas, Night-Gowns, Bed Jackets, Slips, Petticoats, Camisoles, Panties.
Claims use since Nov. 19, 1952.

Ser. No. 643,861. Sleepwear, Inc., New York, N. Y. Filed Mar. 18, 1953.



RESTYME

No claim is made to the representation of the goods per se apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 425,838.
For Men's, Women's, and Children's Pajamas.
Claims use since July 19, 1951.

Ser. No. 646,220. Julius Kayser & Co., New York, N. Y. Filed Apr. 30, 1953.

NYLOBELLE

For Gloves Made of Fabric for Women.
Claims use since Apr. 16, 1953.

Ser. No. 646,301. Mattie Dress Co., New York, N. Y. Filed May 1, 1953.

TALL GEMS by Mattie

For Ladies' Wearing Apparel—Namely, Dresses, Suits, Skirts, and Blouses.
Claims use since Dec. 4, 1952.

Ser. No. 647,381. Tru Balance Corsets, Inc., New York, N. Y. Filed May 20, 1953.

HYALINE

For Ladies' Corsets, Girdles, Foundation Garments, Corselettes, Brassières, Bathing Suits, and Shoes Made of Leather and a Combination of Leather and Fabrics.
Claims use since June 17, 1952.

Ser. No. 649,756. The Wilson Rubber Company, Canton, Ohio. Filed July 15, 1953. (Sec. 2f.)

WIL-GARD

For Rubber and Plastic Industrial and Household Gloves.
Claims use since on or about Nov. 3, 1947.

Ser. No. 650,188. Little League Baseball, Inc., New York, N. Y. Filed July 13, 1953.



No claim is made to the word "Baseball" apart from the mark as shown.
For Young Boys' T Shirts and Sweatshirts.
Claims use since May 10, 1950.

Ser. No. 650,682. Brooks Brothers, Inc., New York, N. Y. Filed July 23, 1953.

"346"

Applicant claims ownership of Registrations Nos. 400,157, 500,287, and others.
For Men's Clothing—Namely, Suits; Evening Suits; Coats Including Topcoats, Overcoats, and Raincoats; Vests; Trousers; Sport Jackets; Evening, Dress, and Sport Shirts; Pajamas; Underwear; Sweaters; Necktles; and Hats.
Claims use since on or about August 1949.

Ser. No. 652,006. Alpha Mills Corporation, Schuylkill Haven, Pa. Filed Aug. 19, 1953.

Yum Drops

For Women's Underwear—Namely, Vests, Union Suits, Pants, and Briefs; and Men's, Children's, and Infants' Underwear, and Children's Sweaters, Creepers, and Sleeping Garments.
Claims use since July 1, 1953.

Ser. No. 652,087. Stardust, Incorporated, Poughkeepsie and New York, N. Y. Filed Aug. 20, 1953.

Cuddlform

Applicant claims ownership of Registration No. 345,102.
For Ladies' and Misses' Slips and Brassières.
Claims use since Nov. 18, 1936.

Ser. No. 652,162. Blair Corset Co., Inc., Chicago, Ill. Filed Aug. 24, 1953.

Frothy

For Ladies' Girdles and Panty Girdles.
Claims use since Aug. 14, 1953.

Ser. No. 652,619. Julius Kayser & Co., New York, N. Y. Filed Sept. 1, 1953.

Nylo-Flute

For Lingerie for Women and Children—Namely, Gowns, Slips, Petticoats, Pants, Robes, and Pajamas.
Claims use since June 16, 1953.

Ser. No. 652,620. Julius Kayser & Co., New York, N. Y. Filed Sept. 1, 1953.

Nylopaque

For Lingerie for Women and Children—Namely, Nightgowns, Slips, Petticoats, Pants, Robes, and Pajamas.
Claims use since July 17, 1953.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 632,929. Guy S. Garber, Jr., Saginaw, Mich. Filed July 23, 1952.

E-Z-ikes

For Garment or Apparel Clasp of Non-Precious Metals Used in Lieu of Safety Pins.
Claims use since July 15, 1951.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 622,871. Thomas Textile Service Company, Philadelphia, Pa. Filed Dec. 26, 1951.

ko-lyne

For Interlining Fabrics of Cotton To Be Used in Men's, Women's, Boys', and Girls' Suits, Coats, Top Coats, Sack Coats, Sport Coats, and Sport Jackets.
Claims use since Mar. 10, 1951.

Ser. No. 633,522. The Warrenton Woolen Co., Torrington, Conn. Filed Aug. 5, 1952.



All wording except the word "Warrenton" is disclaimed apart from the mark as shown in the drawing.
For Woolen Fabrics.
Claims use since in the year 1938.

Ser. No. 640,297. Monarch Mills, Union and Lockhart, S. C. Filed Jan. 2, 1953. (Sec. 2f.)

LOCKHART

Applicant claims ownership of Registration No. 203,079.
For Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers and Combinations Thereof.
Claims use since on or about 1894.

Ser. No. 640,896. Aldon Rug Mills, Inc., Philadelphia, Pa. Filed Jan. 19, 1953.

GRANDEUR

For Textile Tufted Rugs and Carpets.
Claims use since Jan. 1, 1953.

Ser. No. 640,968. Shulman Abrash, Inc., Paterson, N. J. Filed Jan. 19, 1953.

WEATHERWALL

For Metallic Insulated Lining Fabrics of Synthetic Fibres for Draperies.
Claims use since on or about Nov. 6, 1952.

Ser. No. 641,462. Permacrease Corporation, New York, N. Y. Filed Jan. 28, 1953.

PERMACREASE

For Piece and Yard Goods Wholly of Wool and Part Wool Combined With Cotton and Synthetic Fibres for Making Into Clothing and Apparel.
Claims use since on or about June 1950.

Ser. No. 644,580. The Warren Woolen Co., Stafford Springs, Conn. Filed Apr. 1, 1953.

ORLANAS

For Woolen Piece Goods.
Claims use since Mar. 3, 1953.

Ser. No. 645,711. The House of Swansdown, Inc., New York, N. Y. Filed Apr. 22, 1953.

Swansheen

Applicant claims ownership of Registrations Nos. 579,394, 579,391, and others.
For Woolen and Worsted Fabrics in the Piece.
Claims use since Feb. 18, 1952.

Ser. No. 645,780. Dan River Mills, Incorporated, Danville, Va. Filed Apr. 23, 1953.

CHAMODAN

Applicant claims ownership of Registrations Nos. 435,334 and 576,388.
For Cotton Chambray Fabrics To Be Used for Men's and Women's Apparel.
Claims use since Mar. 27, 1953.

Ser. No. 646,384. Goodall-Sanford, Inc., Sanford, Maine. Filed May 4, 1953.

LARAMA

For Piece Goods of 100% Wool, Sold in Bolt.
Claims use since Mar. 31, 1953.

Ser. No. 646,651. Sidney Blumenthal & Co., Inc., New York, N. Y. Filed May 8, 1953.

CAROIZED

For Pile Fabrics in the Piece Composed of Rayon and Cotton.
Claims use since May 1, 1953.

Ser. No. 647,431. Mardi Fabrics Co., New York, N. Y. Filed May 21, 1953.

ACRIWOOL

For Fabric Piece Goods Comprised in Substantial Part of Wool Which Is Combined With Synthetic Fibres.
Claims use since April 1953.

Ser. No. 647,799. North American Commercial Corporation, New York, N. Y. Filed May 27, 1953.

parisiana

For Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fibres.
Claims use since Jan. 7, 1953.

Ser. No. 650,231. Tuller Fabrics Corp., New York, N. Y. Filed July 13, 1953.

Doresoie

For Textile Fabrics Made Wholly of Silk or in Substantial Part of Silk Combined With Rayon.
Claims use since June 26, 1953.

Ser. No. 650,267. Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Filed July 14, 1953.



For Textile Rugs and Carpets.
Claims use since May 1, 1953.

Ser. No. 650,268. Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Filed July 14, 1953.



For Textile Rugs and Carpets.
Claims use since May 1, 1953.

Ser. No. 650,269. Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Filed July 14, 1953.



For Textile Rugs and Carpets.
Claims use since May 1, 1953.

Ser. No. 651,211. Bear Mill Manufacturing Co., Inc., New York, N. Y. Filed Aug. 3, 1953.

BEAR MILL
"Premium Shirting Finish"

The words "Mill" and "Premium Shirting Finish" are hereby disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 542,659 and 257,463.
For Piece Goods of Rayon, Wool, Silk, Cotton, or Combinations Thereof.
Claims use since May 15, 1952.

CLASS 43

THREAD AND YARN

Ser. No. 619,720. Snia Viscosa, Societa Nazionale Industria Applicazioni Viscosa, Societa per Azioni, Milan, Italy. Filed Oct. 8, 1951.

MERINOVA

Priority under Sec. 44(d). Italian application, filed Apr. 21, 1951, Registration No. 113,132, dated Sept. 14, 1953.
For Threads Consisting, at Least in Part, of Artificial Textile Fibres, Particularly of Artificial Fibres of Proteins.

Ser. No. 637,917. The Duplan Corporation, New York, N. Y. Filed Nov. 12, 1952.

Du-Tex

For Textile Yarns.
Claims use since Feb. 12, 1952.

Ser. No. 642,592. American & Efird Mills, Inc., Mount Holly, N. C. Filed Feb. 24, 1953.

SPUNDARA

Applicant claims ownership of Registration No. 437,480.
For Yarn Having a Wool Plating and a Synthetic Fiber Core.
Claims use since on or about Dec. 13, 1952.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 633,122. Rex Cutlery Corporation, New York, N. Y. Filed July 26, 1952.

TUDOR

Applicant claims ownership of Registration No. 424,559.
For Manicure Implements—Namely, Toenail Nippers, Manicure -Nippers, Cuticle Nippers, Manicure Scissors, Nail Files; Pedicure Scissors; Pushers, Tweezers, Blackhead Extractors, and Nose Scissors.
Claims use since July 13, 1945.

Ser. No. 635,851. Safety Engineering & Supply Company, Inc., doing business as Stretcherette Co., Birmingham, Ala., assignor to A. C. Pooser, Birmingham, Ala. Filed Sept. 26, 1952.



No claim is made to the representation of the goods apart from the word portion of the mark.
For Stretchers, More Particularly, Non-Rigid, Separable Stretchers of Canvas or the Like Especially Adapted for First Aid Use.
Claims use since Mar. 1, 1952.

Ser. No. 638,106. Peggy Sage, Inc., Stamford, Conn. Filed Nov. 14, 1952. (Sec. 2f.)

Peggy Sage
PULLMAN KIT

Consent to the use and registration of the name "Peggy Sage," signed by Peggy Sage is of record in this case. The word "Kit" is disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 308,683.
For Manicure Sets—Namely, Nail Polish, Polish Remover, Cuticle Remover, Nail Preparation, Nail Scissors, and Emery Boards.
Claims use since Oct. 12, 1932.

Ser. No. 643,360. Parke, Davis & Company, Detroit, Mich. Filed Mar. 9, 1953.

RAY-X

For Surgical Sponges.
Claims use since Jan. 9, 1953.

Ser. No. 646,204. Davis & Geck, Inc., Brooklyn, N. Y. Filed Apr. 30, 1953.

MEASUROLL

For Surgical Ligatures and Sutures.
Claims use since Mar. 28, 1953.

Ser. No. 652,295. O. E. M. Corporation, East Norwalk, Conn. Filed Aug. 25, 1953.

COF-FLATOR

For Apparatus for Treatment of Pulmonary Ailments.
Claims use since July 13, 1953.

Ser. No. 652,467. Miracle-Vac, Inc., Miami, Fla. Filed Aug. 28, 1953.

MIRACLE • VAC

For Hair Dryer.
Claims use since July 13, 1952.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 639,947. Mason & Mason, Inc., Chicago, Ill. Filed Dec. 23, 1952. (Sec. 2f as to "Mason's.")

Mason's

Applicant claims ownership of Registration No. 505,901.
For Root Beer.
Claims use since Aug. 20, 1947.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 607,149. The United Products Company, Westminster, Md. Filed Nov. 30, 1950. CERTIFICATION MARK.

STRATA-COOK

Without waiving any common-law rights in the mark or any part thereof, the syllable "Cook" is disclaimed apart from the mark as shown.
For Canned Corn.
Claims use since Sept. 21, 1950.

Ser. No. 616,202. Collins Chemical Co. Inc., New York, N. Y. Filed Aug. 8, 1951.

EXALTATOR

For Flavoring Preparations Principally Composed of Natural Fruit Juice in Admixture With Aldehydes and Fruit Ethers, as Ingredients of Food, for Industrial and Household Use.
Claims use since Apr. 18, 1949.

Ser. No. 627,871. Dirigo Sales Corporation, Boston, Mass. Filed Apr. 10, 1952.

EDELWEISS

For Blend of Edible Colloids, Gelose, and Albumen in a Carrier Base Forming a Dry Pulverulent Mass Sold in Bulk in Bags and Drums as an Additive Emulsifier-Stabilizer-Binder for Combining With All Types of Sausage, Frankfurters, Bologna, Salami, Liver Sausage, Minced Ham, Various Meat Loaves, Head Cheese, Blood Sausage, Liver Loaf, Scrapple, Chili Con Carne, Prepared Luncheon Meats, Sandwich Spreads, Patés and the Like Cooked, Smoked, and Otherwise Prepared Meat and Poultry Food Products and Accessory Items Including Gravies, Soups, and Stews.
Claims use since on or about February 1949.

Ser. No. 637,604. Guy C. Myers, doing business as Cranguyma Farms, Long Beach, Wash. Filed Nov. 4, 1952.

CRANGUYMA FARMS

The use of the word "Farms" is disclaimed apart from the mark as shown.
For Fruits and Vegetables Sold in Containers in Fresh, Frozen, and Canned Condition.
Claims use since 1946.

Ser. No. 646,504. Trim Foods, Inc., New York, N. Y. Filed May 5, 1953.

trim

For Low Calorie, Homogenized Salad Whip Dressing.
Claims use since Apr. 20, 1953.

Ser. No. 651,316. Walter E. Bothe Foods, Incorporated, Bloomington, Ill. Filed Aug. 4, 1953.

Paulina's

For Canned Potato Salad.
Claims use since July 1, 1953.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 633,885. Standard Brewing Co. of Scranton, Scranton, Pa. Filed Aug. 13, 1952. (Sec. 2f.)

Standard
TRU-AGE

Applicant claims ownership of Registration No. 317,148.
For Beer.
Claims use since July 1, 1905.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 627,760. James Martin & Co., Limited, Edinburgh and Leith, Edinburgh, Scotland. Filed Apr. 8, 1952. (Sec. 2f as to "Martin's.")

De Luxe
MARTIN'S
De Luxe
James Martin & Co Ltd

No claim is made to the exclusive use of the term "De Luxe." The name "James Martin & Co. Ltd" is in the handwriting of Edward Macdonald, now deceased, one of the original proprietors of applicant's business. Applicant claims ownership of Registrations Nos. 329,093, 381,228, and 544,212.
For Scotch Whisky.
Claims use as shown since Mar. 26, 1942, in Great Britain; and since Mar. 28, 1942, in commerce between Great Britain and the United States; since 1930 as to "Martin's" in Great Britain; and since Dec. 5, 1933, as to "Martin's" in commerce between Great Britain and the United States.

Ser. No. 636,565. Greenbros, Inc., Cincinnati, Ohio. Filed Oct. 13, 1952.

Mother Putnam

"Putnam" is disclaimed apart from the mark as shown.
For Alcoholic Blackberry Cordial.
Claims use since Sept. 5, 1952.

Ser. No. 641,222. United Distillers (of America) Ltd., Baltimore, Md., assignor to Joseph S. Finch and Company, New York, N. Y., a corporation of Pennsylvania. Filed Jan. 23, 1953.

Black Label

No claim is made to the exclusive use of the label colored black. Applicant claims ownership of Registrations Nos. 320,009, 320,010, and others.
For Blended Whiskey.
Claims use since Dec. 30, 1952.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 625,397. Buckner Process Company, Worcester, Mass. Filed Feb. 23, 1952.

LES VIBRA

For Felt Pads for Absorbing Vibration in Machinery and Elsewhere, Composition Felt Material in Sheet Form Suitable for Use in the Making of Vibration Pads and for Cushioning Purposes in General Such as Rug Underlays.
Claims use since Nov. 15, 1951.

Ser. No. 629,487. Gotham Industries, Inc., New York, N. Y., and Chicago, Ill. Filed May 10, 1952.

Duraflectors

For Christmas Tree Ornaments.
Claims use since May 1, 1952.

Ser. No. 635,533. Green Thumb Products, Toledo, Ohio. Filed Sept. 20, 1952.

TOTEM POLE

For Trellises for Supporting Plants and Vines.
Claims use since Aug. 30, 1950.

Ser. No. 642,613. L. S. Brown Company, Atlanta, Ga. Filed Feb. 24, 1953.

Adjust-ALL

The word "Adjust" is disclaimed apart from the mark as shown.
For House Trailer Awnings Made of Fabric.
Claims use since on or about Aug. 6, 1948.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 610,279. L & S Laboratories, Inc., Fremont, Nebr. Filed Feb. 19, 1951.

Hie

For Preparations in Liquid and Cream Form for Home Permanent Waving of the Hair.
Claims use since Jan. 3, 1951.

Ser. No. 622,357. Helena Rubinstein, Inc., New York, N. Y. Filed Dec. 11, 1951.

Top Drawer

For Cosmetic Kit Containing Lipstick, Nail Polish, Face Powder, Cologne Stick, Waterproof Mascara and Applicator Therefor, Skin Cleanser, Facial Tissue, Emery Board, and Eyebrow Pencil.
Claims use since June 20, 1951.

Ser. No. 630,501. Lancome, S. A., Paris, France. Filed May 29, 1952.

MAGIE
de LANCOME
PARIS

The words "de," "Lancome," "Paris," "France" are disclaimed apart from the mark shown. The drawing is lined for gold. The color gold is for background purposes only and no claim is made to said color. Applicant claims ownership of French Registration No. 397,267, dated Oct. 19, 1949.
For Perfume, Eau de Cologne, and Toilet Water.

Ser. No. 637,377. Hoyt Co., Inc., New York, N. Y., and Memphis, Tenn. Filed Oct. 30, 1952. (Sec. 2f.)

Hoyt's Cologne

The word "Cologne" is disclaimed apart from the mark shown herein. Applicant claims ownership of Registrations Nos. 45,147 and 46,216.
For Cologne.
Claims use since Dec. 1, 1868.

Ser. No. 637,615. Robinson-Wagner Co., Inc., New York, N. Y. Filed Nov. 4, 1952.

ASTRINGEN

For Astringents and Anti-Perspirant Agents.
Claims use since Oct. 1, 1952.

Ser. No. 640,903. Blendax-Werke R. Schneider & Co., Mainz, Germany. Filed Jan. 19, 1953.

Blend-a-med

Applicant claims ownership of German Registration No. 603,999, dated Jan. 9, 1951.
For Tooth-Paste.

Ser. No. 645,252. Ocean Front Cottage Association, Inc., Daytona Beach, Fla. Filed Apr. 14, 1953.

Daytan

The word "Tan" is disclaimed apart from the mark as shown.
For Suntan Lotion.
Claims use since Apr. 9, 1952.

Ser. No. 646,684. The Procter & Gamble Company, Cincinnati, Ohio. Filed May 8, 1953.

Wendy

For Cosmetic Creams, Personal Deodorants.
Claims use since Jan. 26, 1953.

Ser. No. 648,069. Bronislavs Vitorts, doing business under the name and style of Vitorium Manufacturing Company, Baltimore, Md. Filed June 1, 1953.

VITORIUM

For Preparation for Restoring Natural Color to Gray Hair.
Claims use since Jan. 25, 1953.

Ser. No. 648,249. The Andrew Jergens Company, Cincinnati, Ohio. Filed June 4, 1953.



The drawing is stippled for shading only, and consists of a fanciful representation of a dancing woman.
For Face Powder and Cream Make-Up.
Claims use since July 1, 1947.

Ser. No. 650,234. James Varley & Sons, Incorporated, St. Louis, Mo. Filed July 13, 1953.

DOWN BOY

For Perfume.
Claims use since Jan. 13, 1953.

Ser. No. 650,343. Elizabeth Arden Sales Corporation, New York, N. Y. Filed July 16, 1953.

COGNAC

For Lipstick, Rouge, and Nailpolish.
Claims use since Jan. 19, 1953.

Ser. No. 651,416. Revlon Products Corporation, New York, N. Y. Filed Aug. 5, 1953.

'WAKING BEAUTY'

For Night Treatment Cream.
Claims use since July 20, 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 566,377. John H. Breck, Inc., Springfield, Mass. Filed Oct. 4, 1948. (Sec. 2f as to "Breck.")

Baby Breck Lavo

Applicant claims ownership of Registrations Nos. 521,473 and 353,163.
For Soap Preparation for Bathing Babies.
Claims use since Aug. 2, 1948.

Ser. No. 617,178. Curt E. Abramowitz, Brooklyn, N. Y. Filed Aug. 1, 1951.

NYLO WHITE

The descriptive word "White" is disclaimed apart from the mark as shown.
For Washing Compound Specially Prepared for Use on Acrilic Fibers and Fabrics.
Claims use since Mar. 1, 1951.

Ser. No. 628,796. Wade, Wenger & Associates, Inc., Chicago, Ill. Filed Apr. 26, 1952.

NUTREL-B

Applicant disclaims the word "Nutrel" separate and apart from the combination shown.
For Cleaning Compound for Household Textile Furnishings.
Claims use since Feb. 18, 1952.

Ser. No. 633,386. Louis J. Stern, doing business as Post Institute, New York, N. Y. Filed Aug. 1, 1952.

MICROSONIC

For Shampoo and Soap.
Claims use since Nov. 10, 1949.

Ser. No. 637,121. General Paint & Varnish Company Inc., doing business as Kwikote Products, Chicago, Ill. Filed Oct. 24, 1952. (Sec. 2f.)

KleenZ-em

Applicant claims ownership of Registration No. 412,895.
For Liquid Brush Cleaner.
Claims use since August 1943.

Ser. No. 637,456. Maurice Mogavero, doing business as Star-Brite Mfg. Co., Newark, N. J. Filed Oct. 31, 1952.

Star-Brite

The word "Brite" is disclaimed apart from the mark as shown.
For Jewelry and Gem Cleaning Fluid.
Claims use since on or about Aug. 1, 1952.

Ser. No. 640,043. Vincent P. Long, Omaha, Nebr. Filed Dec. 26, 1952.



The lining is used for shading only.
For Detergent Used for General Cleaning Purposes.
Claims use since on or about Sept. 2, 1952.

Ser. No. 643,634. Brown-Vaughan Co., San Francisco, Calif. Filed Mar. 16, 1953.



The portrait shown is that of Dr. Walter Ernst Vaughan, a member of applicant firm, whose consent has been filed. No claim is made to the word "Corn" apart from the mark.
For Medicated Soap Compound Fortified With Aromatic Oils.
Claims use since March 1928.

Ser. No. 643,812. Elizabeth Arden Sales Corporation, New York, N. Y. Filed Mar. 18, 1953. (Sec. 2f.)

JUNE GERANIUM

Applicant claims ownership of Registrations Nos. 236,338 and 516,043.
For Soap.
Claims use since Jan. 15, 1917.

Ser. No. 646,143. Lazarus Laboratories, Inc., Division of West Disinfecting Company, Buffalo, N. Y. Filed Apr. 29, 1953.

IOBAC

For Preparation or Composition Used as a Liquid Detergent Germicide Cleaner for Disinfecting Milking Equipment.
Claims use since Jan. 1, 1952.

Ser. No. 650,210. The Procter & Gamble Company, Cincinnati, Ohio. Filed July 13, 1953. (Sec. 2f.)

IT FLOATS

For Sudsing Cleaner, Cleanser, and Detergent.
Claims use since July 1891.

Ser. No. 651,726. The Pep Boys—Manny, Moe & Jack, Philadelphia, Pa. Filed Aug. 12, 1953.

MANNY MOE & JACK

Applicant claims ownership of Registration No. 388,539.
For Hand Soap.
Claims use since May 1, 1940.

Ser. No. 651,727. The Pep Boys—Manny, Moe & Jack, Philadelphia, Pa. Filed Aug. 12, 1953.

PEP BOYS

Applicant claims ownership of Registration No. 388,539.
For Hand Soap.
Claims use since May 1, 1940.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,795. Ready Mixed Lacquers, Paints, and Paint Enamels. National Lacquer & Paint Company, Inc., Chicago, Ill.
Filed July 25, 1946, Serial No. 506,253. Published Apr. 14, 1953. Class 16.

ACT OF 1946, PRINCIPAL REGISTER

585,885. Candies. Zion Industries, Inc., Zion, Ill.
Filed Dec. 10, 1948, Serial No. 570,347. Published Nov. 3, 1953. Class 46.

585,886. Crab Buckets—Namely, Clamshell Buckets and Orange-Peel Buckets, Etc. Bucyrus-Erie Company, Wilmington, Del., and South Milwaukee, Wis.
Filed Jan. 3, 1949, Serial No. 571,509. Published Aug. 11, 1953. Class 23.

585,887. Plaster and Concrete Aggregate. Persolite Products, Inc., Chicago, Ill., assignor to Lake Zurich Concrete Products Inc., Lake Zurich, Ill., a corporation of Illinois.
Filed Apr. 2, 1949, Serial No. 576,552. Published Feb. 3, 1953. Class 12.

585,888. Machinery and Equipment for the Removal of Suspended, Colloidal, and Dissolved Substances, Etc. Infilco Incorporated, Tucson, Ariz.
Filed July 23, 1949, Serial No. 582,434. Published Aug. 25, 1953. Class 23.

585,889. Cotton Fabrics in the Piece and in Cut Lengths. Stapf Fabrics, Inc., New York, N. Y.
Filed Sept. 15, 1949, Serial No. 584,879. Published Nov. 24, 1953. Class 42.

585,890. Wheat Flour. C. H. Guenther & Son, Incorporated, doing business as Pioneer Flour Mills, San Antonio, Tex.
Filed Nov. 23, 1949, Serial No. 588,214. CONCURRENT USE. Published Nov. 24, 1953. Class 46.

585,891. Dishwashing Composition in Solid Form Containing a Water Soluble Cellulose Compound Active as the Primary Soil Suspending Agent. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Nov. 25, 1949, Serial No. 588,352. Published Nov. 18, 1952. Class 52.

585,892. Truck Cranes, and Cement Spreaders and Parts Thereof. Robroy Manufacturing Company, Durham, N. C.
Filed Jan. 13, 1950, Serial No. 590,837. Published Aug. 11, 1953. Class 23.

585,893. Perfumes and Colognes. Muriel Bell Incorporated, New York, N. Y.
Filed Apr. 4, 1950, Serial No. 595,184. Published Oct. 28, 1952. Class 51.

585,894. Cameras and Camera Parts and Attachments—Namely, Objective Mounts, Etc. Rectaflex Societa Per Azioni, Rome, Italy, assignee, by mesne assignments, from Telemaco Corsi and Emilio Palamidessi.
Filed June 9, 1950, Serial No. 598,835. Published Sept. 8, 1953. Class 26.

585,895. Fancy Hand Picked Virginia Peanuts. Pretlow Peanut Company, Inc., Franklin, Va.
Filed July 18, 1950, Serial No. 600,849. Published Sept. 25, 1951. Class 46.

585,896. Hosiery for Women and Girls. Rosedale Knitting Company, Reading, Pa.
Filed Sept. 6, 1950, Serial No. 603,206. Published Oct. 16, 1951. Class 39.

585,897. Lampshades. Deena Products Co., Chicago, Ill.
Filed Sept. 28, 1950, Serial No. 604,146. Published Nov. 24, 1953. Class 21.

585,898. Women's and Children's Underwear. Walter W. Moyer Company, Ephrata, Pa.
Filed Oct. 12, 1950, Serial No. 604,793. Published Nov. 17, 1953. Class 39.

585,899. Mattresses. Wonder-Rest Corporation, Milwaukee, Wis.
Filed Oct. 24, 1950, Serial No. 605,388. Published July 31, 1951. Class 32.

585,900. Canned Fruits, Canned Vegetables, Canned Soups, Canned Mushroom Sauce, Canned Fish, Canned Italian Style Ravioli, Canned Mushrooms, Canned Pork and Beans, and Sauce for Use on Meats, Fish, Game, or Salads. Tiedemann & McMorran, Inc., San Francisco, Calif.
Filed Oct. 28, 1950, Serial No. 605,565. Published June 24, 1952. Class 46.

585,901. Bouillon Cubes. The Nestle Company, Inc., New York, N. Y., and Colorado Springs, Colo.
Filed Oct. 31, 1950, Serial No. 605,673. Published Nov. 10, 1953. Class 46.

585,902. Ratcheting Box Wrenches, Screw Drivers, Etc. Malton Tool Corporation, New York, N. Y.
Filed Nov. 7, 1950, Serial No. 606,023. Published Nov. 10, 1953. Class 23.

585,903. Automatic Mercury-Operated Power Cut-Off Adapted for Attachment to Tractor Ignition Systems. "Rol-Gard," Inc., doing business as Rol-Gard Corp., Fargo, N. Dak.
Filed Dec. 19, 1950, Serial No. 607,869. Published Nov. 10, 1953. Class 21.

585,904. Scissors for Cutting Hair; Scissors for Thinning Hair; Razors; and Shears for Barbers, Dress-Makers, and Household Purposes. The Wella Corporation, New York, N. Y.
Filed Jan. 9, 1951, Serial No. 608,580. Published Nov. 10, 1953. Class 23.

585,905. Cosmetics in the Nature of Colognes, Powders, Solidified Creams, and Similar Products—Namely, Deodorants and Rouges. Max Factor & Co., Hollywood, Calif.
Filed Jan. 11, 1951, Serial No. 608,654. Published Mar. 24, 1953. Class 51.

585,906. Power-Actuated Shavers and Dry Shavers Actuated by a Spring Motor Operated by Hand. Rabaldo A. G., Unterengstringen, Zurich, Switzerland.
Priority under Sec. 44(d). Swiss Registration No. 134,693, filed Aug. 17, 1950.
Filed Feb. 13, 1951, Serial No. 610,026. Published Sept. 1, 1953. Class 23.

585,907. Electrical Ignition System Comprising a Control Switch, Glow Coil, and Pilot Burner Adapted To Light the Main Burner of Gas Fired Clothes Dryers. Whirlpool Corporation, St. Joseph, Mich.
Filed Mar. 1, 1951, Serial No. 610,725. Published Nov. 17, 1953. Class 21.

585,908. Combined Socks and Slippers for Men, Women, and Children. The Handcraft Company, Inc., Princeton, Wis.
Filed Mar. 27, 1951, Serial No. 611,842. Published Nov. 10, 1953. Class 39.

585,909. Smoking Pipes and Cigar and Cigarette Holders. Rogers Imports Inc., New York, N. Y.
Filed Apr. 2, 1951, Serial No. 612,140. Published Nov. 24, 1953. Class 8.

585,910. Tools, Particularly Tools Arranged To Drive or Propel a Penetrating or Other Element, Etc. Remington Arms Company, Inc., Bridgeport, Conn.
Filed Apr. 6, 1951, Serial No. 612,353. Published Nov. 10, 1953. Class 23.

585,911. Trusses. Louis P. Mack, Chicago, Ill.
Filed Apr. 18, 1951, Serial No. 612,811. Published Nov. 24, 1953. Class 44.

585,912. Piece Goods Made of Wool. John G. Hardy Limited, London, England, assignor to John G. Hardy Limited, London, England (new company).
Filed Apr. 19, 1951, Serial No. 612,859. Published Nov. 24, 1953. Class 42.

585,913. Peanut Butter and Apple Jelly Combined. B & W Food Company, Birmingham, Ala.
Filed May 1, 1951, Serial No. 613,358. Published Nov. 24, 1953. Class 46.

585,914. Photoelectric Color and Density Measuring Instrument for Clinical Use in Ascertaining Color or Optical Density of Liquids or Gases. Hellige, Inc., Long Island City, N. Y.
Filed May 17, 1951, Serial No. 613,990. Published Sept. 8, 1953. Class 26.

585,915. Bush-Type Sheaves Used With Heavy Duty Pulleys, V-Belts, and the Like. Maurey Manufacturing Corporation, Chicago, Ill.
Filed May 17, 1951, Serial No. 614,001. Published Aug. 25, 1953. Class 23.

585,916. Beer. The Geo. Wiedemann Brewing Co., Inc., Newport, Ky.
Filed May 22, 1951, Serial No. 614,230. Published Nov. 17, 1953. Class 48.

585,917. Vinyl-Coated Wire Racks—Namely, Dish Draining Racks and Plate Storage Racks. Artistic Wire Products Company, Inc., East Hampton, Conn.
Filed June 27, 1951, Serial No. 615,744. Published Nov. 17, 1953. Class 13.

585,918. Vinyl-Coated Wire Racks—Namely, Dish Draining Racks and Plate Storage Racks. Artistic Wire Products Company, Inc., East Hampton, Conn.
Filed June 27, 1951, Serial No. 615,745. Published Nov. 17, 1953. Class 13.

585,919. Dairy Products—Namely, Milk, Chocolate Milk, Buttermilk, Chocolate Drink (Containing Milk), Half and Half (Part Milk and Part Cream), Etc. Midwest Dairy Products Corporation, Chicago, Ill.
Filed June 27, 1951, Serial No. 615,785. Published Nov. 24, 1953. Class 46.

585,920. Centrifugal Pumps for Handling Liquids, and Parts Thereof, Etc. Broadbent-Johnston, Inc., El Monte, Calif.
Filed July 5, 1951, Serial No. 616,078. Published Aug. 25, 1953. Class 23.

585,921. Measuring and Analyzing Apparatus—Namely, Analog Computors, Analog Components, and Accessories Therefor—Namely, Amplifiers, Power Supplies, Connectors, Cabinets, Racks, and Parts Sold as a Unit. George A. Philbrick Researches Inc., Boston, Mass.
Filed July 11, 1951, Serial No. 616,335. Published Sept. 8, 1953. Class 26.

585,922. Piece Goods Made of Wool. John G. Hardy Limited, London, England, assignor to John G. Hardy Limited, London, England (new company).
Filed July 16, 1951, Serial No. 616,558. Published Nov. 24, 1953. Class 42.

585,923. Jewelry—Namely, Ring Mountings, Engagement and Wedding Rings and Attachments—Namely, Watch Bracelets, All of Precious Metals. John Giovannetti, New York, N. Y.
Filed July 18, 1951, Serial No. 616,632. Published Dec. 23, 1952. Class 28.

585,924. Aperitif Wines. Societe Anonyme Societe St-Raphael, Paris, France.
Filed Aug. 2, 1951, Serial No. 617,267. Published Nov. 17, 1953. Class 47.

585,925. Window Cornice Hardware—Namely, Center Support Bracket and Shelf Angle. The Eastern Venetian Blind Company, trading as Eastern Machine Products Co., Baltimore, Md.
Filed Aug. 14, 1951, Serial No. 617,655. Published Nov. 24, 1953. Class 13.

585,926. Writing Paper. Frank Smythson Limited, London, England.
Filed Aug. 28, 1951, Serial No. 618,183. Published Oct. 27, 1953. Class 37.

585,927. Ornamental Food Display Stand Provided With Shelves for the Display of Foods. Cresca Company, Inc., New York, N. Y.
Filed Sept. 11, 1951, Serial No. 618,628. Published Nov. 17, 1953. Class 32.

585,928. Measuring and Dispensing Apparatus for Gasoline or Other Liquids. Bowser, Inc., Fort Wayne, Ind.
Filed Sept. 18, 1951, Serial No. 618,911. Published Sept. 8, 1953. Class 26.

585,929. Oleomargarine. The Mar-Gold Corporation, Atlanta, Ga.
Filed Oct. 5, 1951, Serial No. 619,636. Published Nov. 24, 1953. Class 46.

585,930. Electrical Temperature Measuring Instruments and Parts Thereof. Illinois Testing Laboratories, Inc., Chicago, Ill.
Filed Oct. 27, 1951, Serial No. 620,541. Published Sept. 8, 1953. Class 26.

585,931. Electrical Temperature Measuring Instruments and Parts Thereof. Illinois Testing Laboratories, Inc., Chicago, Ill.
Filed Oct. 27, 1951, Serial No. 620,543. Published Sept. 8, 1953. Class 26.

585,932. Flow Meters for Measuring the Rate of Flow of Air and Other Gases. Illinois Testing Laboratories, Inc., Chicago, Ill.
Filed Oct. 27, 1951, Serial No. 620,544. Published Sept. 8, 1953. Class 26.

585,933. Catamenial Appliances. Tampax Incorporated, Palmer, Mass.
Filed Nov. 13, 1951, Serial No. 621,178. Published Mar. 17, 1953. Class 44.

585,934. Detergents for Laundry Purposes. The Russell Chemical Company, Cleveland, Ohio.
Filed Nov. 29, 1951, Serial No. 621,840. Published Nov. 24, 1953. Class 52.

585,935. Woven Pile Rugs and Carpets. Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., New York, N. Y., a corporation of Delaware.
Filed Dec. 3, 1951, Serial No. 622,002. Published Nov. 24, 1953. Class 42.

585,936. Power Amplifiers, Electrical Gyroscopes, Servomotors, Magnetic Brakes, Voltage Dividing Potentiometers. Avion Instrument Corporation, Paramus, N. J.
Filed Dec. 5, 1951, Serial No. 622,099. Published Nov. 10, 1953. Class 21.

585,937. Gin. Charles Tanqueray & Co. Limited, London, England.
Filed Dec. 11, 1951, Serial No. 622,366. Published Nov. 10, 1953. Class 49.

585,938. Printing Inks. Showcard Machine Company, Chicago, Ill.
Filed Dec. 27, 1951, Serial No. 622,909. Published Nov. 18, 1952. Class 11.

585,939. Portable Electrically Heated Steam Baths for Use by Human Beings in Bathing. Home Accessories Manufacturing Company, Jacksonville, Ill.
Filed Dec. 28, 1951, Serial No. 622,937. Published Nov. 10, 1953. Class 21.

585,940. Auxiliary Fitting for a Liquid Storage Tank in the Nature of a Metal Supporting Plate for a Diaphragm Seal Thereof. Hammond Iron Works, Warren, Pa.
Filed Jan. 10, 1952, Serial No. 623,414. Published Nov. 24, 1953. Class 13.

585,941. Electrically Heated Paint, Putty, and Wallpaper Removers. The B & L Tool and Machine Co., Plainville, Conn.
Filed Jan. 14, 1952, Serial No. 623,531. Published Nov. 10, 1953. Class 21.

585,942. Artists' Painting Kits Consisting of Canvases With Numbered Areas, Capsules Containing Mineral Pigments in Oils, and Artists' Brushes. Ralph E. Grossman, doing business as Picture Craft Company, Decatur, Ill.
Filed Jan. 22, 1952, Serial No. 623,882. Published Nov. 3, 1953. Class 50.

585,943. Weather Thermometers. Clint Youle, Wheaton, Ill.
Filed Jan. 22, 1952, Serial No. 623,929. Published Sept. 8, 1953. Class 26.

585,944. Drains—Namely, Roof Drains, Gutter Drains, Deck Drains, Etc. J. A. Zurn Mfg. Co., Erie, Pa.
Filed Jan. 31, 1952, Serial No. 624,377. Published Nov. 17, 1953. Class 13.

585,945. Plumbing and Drainage Products and Separating Equipment—Namely, Grease Separators, Grease and Solid Separators for Separating Solid Matter From Fluid Matter, Etc. J. A. Zurn Mfg. Co., Erie, Pa.
Filed Jan. 31, 1952, Serial No. 624,379. Published Nov. 17, 1953. Class 13.

585,946. Chewing Gum. Amm-O-Gum, Inc., Chicago, Ill.
Filed Feb. 21, 1952, Serial No. 625,324. Published Nov. 24, 1953. Class 46.

585,947. Canned Tuna Fish. Van Camp Sea Food Company, Inc., Terminal Island, Calif.
Filed Mar. 4, 1952, Serial No. 625,928. Published Nov. 24, 1953. Class 46.

585,948. Molded Carbon Products—Namely, Machinery Bearings, Pump Vanes, Thrust Washers, Pistons, and Bushings for Industrial Machinery. The Wickes Corporation, Saginaw, Mich.
Filed Mar. 4, 1952, Serial No. 625,936. Published Nov. 3, 1953. Class 23.

585,949. Rulers. Westcott Rule Company, Inc., Seneca Falls, N. Y.
Filed Mar. 8, 1952, Serial No. 626,184. Published Sept. 8, 1953. Class 26.

585,950. Cathode-Ray Tubes. Consolidated Vultee Aircraft Corporation, San Diego, Calif.
Filed Mar. 12, 1952, Serial No. 626,312. Published Nov. 10, 1953. Class 21.

585,951. Woolen Fabrics in the Piece and in Cut Lengths. S. Stein & Co. Inc., New York, N. Y.
Filed Mar. 15, 1952, Serial No. 626,544. Published Nov. 24, 1953. Class 42.

585,952. Drawing Instruments and Drawing Articles for Engineers and Architects—Namely, Slide Rules, Conversion Rules, Triangles, Measuring Rules, Scales and Gauges for Measuring Compasses, Stenciling Plates, Rulers, T-Squares. Precision International, Inc., New York, N. Y.
Filed Mar. 19, 1952, Serial No. 626,700. Published Sept. 8, 1953. Class 26.

585,953. Printers' and Bookbinders' Machinery—Namely, Punching Machines, Perforators, Stitching Machines, Gang Stitchers, Creasing and Crimping Machines, Cutting Machines, and Stacking and Packing Machines. F. P. Rosback Company, Benton Harbor, Mich.
Filed Mar. 24, 1952, Serial No. 626,960. Published Nov. 10, 1953. Class 23.

585,954. Back Rests for Seats. Welcraft Products Co., Inc., North Liberty, Ind.
Filed Mar. 27, 1952, Serial No. 627,158. Published Nov. 17, 1953. Class 32.

585,955. Gear Type Pumps. Sier-Bath Gear and Pump Co., Inc., North Bergen, N. J.
Filed Mar. 6, 1952, Serial No. 627,306. Published Aug. 25, 1953. Class 23.

585,956. Chemically Treated Asphalt Embodying an Anti-Stripping Agent for Surfacing Roads, Filling Cracks, Joints, Etc. Berry Asphalt Company, Chicago, Ill., and Magnolia, Ark.
Filed Apr. 5, 1952, Serial No. 627,619. Published Nov. 24, 1953. Class 12.

585,957. Synthetic Resins of the Air-Dry and Heat-Reactive Type Sold in Liquid and Solid Form and Especially Adapted for Use as Coatings. Snyder Chemical Corporation, Bethel, Conn.
Filed Apr. 9, 1952, Serial No. 627,846. Published Sept. 22, 1953. Class 16.

585,958. Hypodermic Injection Devices Which Include a Hypodermic Needle, a Container for the Substances To Be Injected, and Means for Applying Pressure to Such Substances. The Compule Corporation, Rutherford, N. J.
Filed Apr. 23, 1952, Serial No. 628,522. Published Nov. 17, 1953. Class 44.

585,959. Correspondence Folders, Expanding File Folders, Follow-Up File Folders, Vertical File Guide Pockets, Pocket File Guides, and Vertical File Guides. The Smead Manufacturing Company, Hastings, Minn.
Filed Apr. 30, 1952, Serial No. 628,964. Published Nov. 17, 1953. Class 37.

585,960. Acid Type Detergent and Scale Removing Compound for Use in the Dairy, and Food and Beverage Industries. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed May 2, 1952, Serial No. 629,134. Published Nov. 24, 1953. Class 52.

585,961. Synthetic Resinous Materials of the Acrylic Ester Type in the Form of Granules, Powders, and Solutions for Use in Printing Inks, Coatings, Films, and Adhesives. Rohm & Haas Company, Philadelphia, Pa.
Filed May 28, 1952, Serial No. 630,443. Published June 9, 1953. Class 6.

585,962. Flexible Plastic Tiles for Covering Floors, Walls, Counter Tops, and Desk and Table Tops. Vinyl Plastics, Inc., Sheboygan, Wis.
Filed June 2, 1952, Serial No. 630,638. Published Nov. 24, 1953. Class 20.

585,963. Women's Hosiery. Mammoth Hosiery Mills, Inc., Philadelphia, Pa.
Filed June 7, 1952, Serial No. 630,899. Published Nov. 24, 1953. Class 39.

585,964. Sliced Dill Pickles. Brown-Miller Company, New Orleans, La.
Filed June 17, 1952, Serial No. 631,266. Published Nov. 24, 1953. Class 46.

585,965. Sandwiches. Seth Harwood Gregory, doing business under the name and style of Sharwood's, Oak Park, Ill.
Filed July 9, 1952, Serial No. 632,300. Published Nov. 24, 1953. Class 46.

585,966. Inflatable Mattresses, Cushions, and Pillows. New York Rubber Corporation, New York, N. Y.
Filed July 9, 1952, Serial No. 632,314. Published Nov. 17, 1953. Class 32.

585,967. Electric Fences and Electric Fence Controllers. International Electric Company, Chicago, Ill.
Filed July 11, 1952, Serial No. 632,425. Published Nov. 17, 1953. Class 21.

585,968. Automatic Electrical Controls for Indicating Broken Ends and for Stopping Textile Machinery Upon the Occurrence of Broken Ends. Pneumafil Corporation, Charlotte, N. C.
Filed July 22, 1952, Serial No. 632,899. Published Nov. 10, 1953. Class 21.

585,969. Wheat Flour. Acme-Evans Company, Inc., Indianapolis, Ind.
Filed July 28, 1952, Serial No. 633,138. Published Nov. 24, 1953. Class 46.

585,970. Component Parts of Portable Irrigation Systems—Namely, Pipe Couplers and Valve Control Elbows for Sprinkler Irrigation Piping. Farmland Irrigation Company, Inc., Fresno, Calif.
Filed July 28, 1952, Serial No. 633,150. Published Nov. 17, 1953. Class 13.

585,971. Compounded Rubber. U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y.
Filed July 29, 1952, Serial No. 633,229. Published Nov. 24, 1953. Class 1.

585,972. Conduits Made of Polymeric Material, Such as, Polyethylene, Cellulose Acetate, Cellulose Acetate Butyrate, Co-Polymerized Vinyls, Polystyrene, and Co-Polymers Thereof. Carlon Products Corporation, Cleveland, Ohio.
Filed Aug. 9, 1952, Serial No. 633,657. Published Nov. 24, 1953. Class 13.

585,973. Cosmetic Kits Containing One or More of the Following Items: Lubricating Skin Cream, Cleansing Cream, Skin Freshener, Foundation Lotion. Richard Hudnut, New York, N. Y.
Filed Aug. 9, 1952, Serial No. 633,672. Published Nov. 24, 1953. Class 51.

585,974. Thermostatically Controlled Disengageable Cooling Fan Drives for Internal Combustion Engines and Thermostatically Controlled Hydraulic Valves. Schwitzer-Cummins Company, Indianapolis, Ind.
Filed Aug. 9, 1952, Serial No. 633,683. Published Sept. 8, 1953. Class 26.

585,975. Whiskey. Kentucky Distilling Co., Inc., New York, N. Y.
Filed Aug. 15, 1952, Serial No. 633,986. Published Nov. 17, 1953. Class 49.

585,976. Chemical Dyestuffs, More Particularly for Dyeing and Printing All Kinds of Vegetable and Synthetic Fibres. Compagnie Francaise des Matieres Colorantes, Paris, France.
Filed Aug. 18, 1952, Serial No. 634,074. Published June 9, 1953. Class 6.

585,977. Electric Generating Plants. Kohler Co., Kohler, Wis.
Filed Aug. 18, 1952, Serial No. 634,090. Published Nov. 3, 1953. Class 21.

585,978. Intake and Exhaust Manifold Attachments Used in Conjunction With Carburetors for Admitting Fluid Materials Into Internal Combustion Engines To Improve Performance. Otto John Wolf, Toronto, Ontario, Canada.
Filed Mar. 26, 1953, Serial No. 634,177. Published Nov. 3, 1953. Class 23.

585,979. Watches. Saxony Watch Co., New York, N. Y.
Filed Aug. 20, 1952, Serial No. 634,217. Published Apr. 28, 1953. Class 27.

585,980. Cementitious Material for Treating and Mending Walls. Florence M. Ross, Havertown, Pa.
Filed Aug. 21, 1952, Serial No. 634,269. Published Nov. 24, 1953. Class 12.

585,981. Laying Mash. Nebraska Consolidated Mills Company, doing business as Alabama Flour Mills, Omaha, Nebr.
Filed Sept. 3, 1952, Serial No. 634,799. Published Nov. 24, 1953. Class 46.

585,982. Partially Printed Tickets To Be Attached to Watches and Other Jewelry During the Repair Thereof. David Pinkas, doing business as The Jem Company, South Norwalk, Conn.
Filed Sept. 19, 1952, Serial No. 635,491. Published Oct. 27, 1953. Class 37.

585,983. Corrugated Paper. The Ajax Box Company, Chicago, Ill.
Filed Sept. 20, 1952, Serial No. 635,510. Published Oct. 27, 1953. Class 37.

585,984. Water Pumps and Parts Thereof. Decatur Pump Company, Decatur, Ill.
Filed Sept. 20, 1952, Serial No. 635,525. Published Aug. 4, 1953. Class 23.

585,985. Textile Fabrics of Synthetic Fibres. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed Sept. 26, 1952, Serial No. 635,823. Published Nov. 24, 1953. Class 42.

585,986. Inner Tubes Made of Rubber and Fabric. United States Rubber Company, New York, N. Y.
Filed Sept. 27, 1952, Serial No. 635,889. Published Feb. 17, 1953. Class 35.

585,987. Frozen Cookie Dough. Dorothy Ferguson, Greeley, Colo.
Filed Oct. 6, 1952, Serial No. 636,227. Published Nov. 10, 1953. Class 46.

585,988. Plastic Tile. Ben Polikoff, doing business as Polymold Plastics Company, Chicago, Ill.
Filed Oct. 7, 1952, Serial No. 636,305. Published Nov. 24, 1953. Class 12.

585,989. Safety Paper for Use Mainly in the Printing of Checks. Columbia River Paper Mills, Portland, Oreg.
Filed Oct. 14, 1952, Serial No. 636,588. Published Nov. 17, 1953. Class 37.

585,990. Natural Mineral Waters. Societe Anonyme des Eaux Minerales d'Evian-les-Bains, Paris, France.
Filed Oct. 14, 1952, Serial No. 636,614. Published Nov. 17, 1953. Class 45.

585,991. Quarried Building Material Known as Oneonta Dolomite Sold in the Form of Rough Quarried Blocks and as Facing Blocks, Trim, and Veneer. The Babcock Company, Kasota, Minn.
Filed Oct. 17, 1952, Serial No. 636,763. Published Nov. 24, 1953. Class 12.

585,992. Window and Removable Sash Sold as a Complete Unit. The Athens Flooring Company, Athens, Ohio.
Filed Oct. 23, 1952, Serial No. 637,031. Published Nov. 24, 1953. Class 12.

585,993. Dress Patterns. Elsé Inc., Cincinnati, Ohio.
Filed Oct. 24, 1952, Serial No. 637,119. Published Sept. 8, 1953. Class 26.

585,994. Commercial Feeds for Animals—Namely, Chickens, Hogs, and Turkeys. Tri-County Dairy Cooperative, Winthrop, Minn.
Filed Oct. 24, 1952, Serial No. 637,156. Published Nov. 24, 1953. Class 46.

585,995. Combination Toy Watch and Trinket Box. Winchester & Woods, Inc., Baltimore, Md.
Filed Oct. 29, 1952, Serial No. 637,344. Published Nov. 24, 1953. Class 22.

585,996. Rattan Furniture—Namely, Sofas, Chairs, and Tables; and Boudoir Chairs. John Raffael, Sr., doing business as Middlesex Reed Furniture Company, Wakefield, Mass.
Filed Oct. 30, 1952, Serial No. 637,399. Published Nov. 17, 1953. Class 32.

585,997. Aluminum Awnings for House Trailers. The Custom Coach Company, Baltimore, Md.
Filed Nov. 4, 1952, Serial No. 637,572. Published Nov. 24, 1953. Class 19.

585,998. Textile Fabrics Made of Cotton, Silk, Wool, Rayon, and Synthetic Fibers. Morris Shoenthal, Inc., New York, N. Y.
Filed Nov. 6, 1952, Serial No. 637,726. Published Nov. 24, 1953. Class 42.

585,999. Apparatus for the Recording on Magnetic Tape and the Reproduction Therefrom of Sound. Electric & Musical Industries Limited, Hayes, England.
Filed Nov. 7, 1952, Serial No. 637,764. Published Nov. 10, 1953. Class 21.

586,000. Fish Netting. The Linen Thread Co., Inc., Paterson, N. J.
Filed Nov. 12, 1952, Serial No. 637,931. Published Nov. 24, 1953. Class 42.

586,001. Electric Motors. The Hoover Company, North Canton, Ohio.
Filed Nov. 18, 1952, Serial No. 638,260. Published Nov. 10, 1953. Class 21.

586,002. Non-Alcoholic Maltless Soft Drinks. Florasynth Laboratories, Incorporated, New York, N. Y., Chicago, Ill., Dallas, Tex., Detroit, Mich., and elsewhere.
Filed Nov. 26, 1952, Serial No. 638,643. Published Nov. 24, 1953. Class 45.

586,003. Incandescent Lamps. Alfa Photo Corp., New York, N. Y.
Filed Dec. 3, 1952, Serial No. 638,889. Published Nov. 17, 1953. Class 21.

586,004. Mailing Envelopes. Lakeside Central Company, Chicago, Ill.
Filed Nov. 17, 1952, Serial No. 638,934. Published Nov. 10, 1953. Class 37.

586,005. Coated Fabrics and Resinous Sheet Material in the Nature of Artificial Leather. Textileather Corporation, Toledo, Ohio.
Filed Dec. 4, 1952, Serial No. 638,982. Published Nov. 3, 1953. Class 50.

586,006. Partially Printed Pin-Tickets. Goldsmith Bros., New York, N. Y.
Filed Dec. 9, 1952, Serial No. 639,223. Published Nov. 3, 1953. Class 37.

586,007. Tubular Cotton Jersey Piece Goods for Use by Retail Purchasers in Making Home Made Dresses. Barbet Mills, Inc., Lexington, N. C.
Filed Dec. 10, 1952, Serial No. 639,260. Published Nov. 24, 1953. Class 42.

586,008. Transportable Trailer Apparatus in the Form of Trailer Coaches and Parts Thereof. ABC Coach Co., Pinconning, Mich.
Filed Dec. 11, 1952, Serial No. 639,299. Published Nov. 24, 1953. Class 19.

586,009. Diamond Rings and Diamonds. Marcel Freudmann, doing business as M. Freudmann Co., New York, N. Y.
Filed Dec. 13, 1952, Serial No. 639,423. Published Nov. 10, 1953. Class 28.

586,010. Television Receiving Sets. Kaye-Halbert Corporation, Culver City, Calif.
Filed Dec. 15, 1952, Serial No. 639,475. Published Nov. 17, 1953. Class 21.

586,011. Machines for the Working of Electrically Conductive Materials by Electrical Disintegration. Sparcatron Limited, Somerset and Bath, Somerset, England.
Filed Dec. 19, 1952, Serial No. 639,788. Published Nov. 24, 1953. Class 21.

586,012. Flint Glazed Paper, Friction Glazed Paper, Plated Label Paper, Etc. Wyomissing Glazed Paper Company, West Reading, Pa.
Filed Dec. 20, 1952, Serial No. 639,860. Published Nov. 24, 1953. Class 37.

586,013. Baby Blankets, Baby Comforters, and Baby Carriage Covers. Newark Comfort Company, Newark, N. J.
Filed Dec. 22, 1952, Serial No. 639,890. Published Nov. 24, 1953. Class 42.

586,014. House Trailers. Overland Coach Company, Inc., Chicago, Ill.
Filed Dec. 22, 1952, Serial No. 639,894. Published Nov. 24, 1953. Class 19.

586,015. Chemical Treatment of Grass Seed. Mock Seed Company, Pittsburgh, Pa.
Filed Dec. 23, 1952, Serial No. 639,949. Published Nov. 24, 1953. Class 6.

586,016. Inflatable Rubber Decoys. Decks, Inc., Salt Lake City, Utah.
Filed Dec. 5, 1952, Serial No. 640,028. Published Nov. 24, 1953. Class 22.

586,017. Note Paper and Correspondence Envelopes. Ernest O. Manville, Inc., New York, N. Y.
Filed Dec. 30, 1952, Serial No. 640,164. Published Nov. 3, 1953. Class 37.

586,018. Iron Powder and Sponge Iron. Hoeganaes Sponge Iron Corporation, New York, N. Y.
Filed Jan. 2, 1953, Serial No. 640,273. Published Nov. 24, 1953. Class 14.

586,019. Paper Tablets; Account, Data, and Order Books; Loose Writing Paper, Etc. Western Tablet & Stationery Corporation, Dayton, Ohio.
Filed Jan. 7, 1953, Serial No. 640,486. Published Nov. 3, 1953. Class 37.

586,020. Tire Chains for Passenger Vehicles, Trucks, and Tractors. St. Pierre Chain Corporation, Worcester, Mass.
Filed Jan. 23, 1953, Serial No. 641,221. Published Nov. 24, 1953. Class 13.

586,021. Handkerchiefs. R. W. Eldridge Company, Inc., Charlotte, N. C.
Filed Jan. 26, 1953, Serial No. 641,280. Published Nov. 17, 1953. Class 39.

586,022. X-Ray Tubes. Amperex Electronic Corporation, Hicksville, N. Y.
Filed Feb. 2, 1953, Serial No. 641,594. Published Nov. 24, 1953. Class 21.

586,023. Draperies, Card Table Covers, and Piece Goods of Cotton, Linen, and Synthetic Fibers. Edson, Incorporated, Chicago, Ill.
Filed Jan. 6, 1953, Serial No. 641,655. Published Nov. 24, 1953. Class 42.

586,024. Whiskey. Schenley Distillers, Inc., also doing business as Jas. E. Pepper & Company, New York, N. Y., and Lexington, Ky.
Filed Feb. 3, 1953, Serial No. 641,694. Published Nov. 17, 1953. Class 49.

586,025. Wheat Flour. Pillsbury Mills, Inc., Minneapolis, Minn.
Filed Feb. 4, 1953, Serial No. 641,739. Published Nov. 24, 1953. Class 46.

586,026. Automobile, Tractor, and Motor Bike Parts—Namely, Mufflers, Muffler Supports and Brackets, Etc. Sears, Roebuck and Co., Chicago, Ill.
Filed Feb. 6, 1953, Serial No. 641,867. Published Sept. 22, 1953. Class 23.

586,027. Grape Juice. Flagstaff Foods, Perth Amboy, N. J.
Filed Feb. 9, 1953, Serial No. 641,922. Published Nov. 17, 1953. Class 45.

586,028. Floor Brushes. The New York Association for the Blind, Inc., New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,953. Published Nov. 24, 1953. Class 29.

586,029. Coffee. The U. & J. Lenson Corp., Brooklyn, N. Y.
Filed Feb. 9, 1953, Serial No. 641,994. Published Nov. 24, 1953. Class 46.

586,030. Canned and Bottled Olives. Ira O. Well, doing business as La Questa Olive Growers, Corning, Calif.
Filed Feb. 16, 1953, Serial No. 642,332. Published Nov. 24, 1953. Class 46.

586,031. Men's, Women's, Boys', and Girls' Athletic Hosiery. Portage Hosiery Company, Portage, Wis.
Filed Feb. 17, 1953, Serial No. 642,368. Published Nov. 17, 1953. Class 39.

586,032. Vehicle Antiskid Devices of the Type Having a Tubular Member Adapted To Be Connected to the Underside of a Vehicle Chassis Frame and Having a Laterally Movable Weight Therein as Well as Springs Centering Said Weight in the Tubular Member. Gyro Skid-Control Company, Inc., Beverly Hills, Calif.
Filed Feb. 18, 1953, Serial No. 642,409. Published Nov. 24, 1953. Class 19.

586,033. Hosiery for Men, Women, and Children. J. M. Lynch & Bro., Louisville, Ky.
Filed Feb. 18, 1953, Serial No. 642,414. Published Nov. 24, 1953. Class 39.

586,034. Skylights. Wasco Flashing Co., Cambridge, Mass.
Filed Feb. 18, 1953, Serial No. 642,434. Published Nov. 10, 1953. Class 12.

586,035. Skylights. Wasco Flashing Co., Cambridge, Mass.
Filed Feb. 18, 1953, Serial No. 642,435. Published Nov. 10, 1953. Class 12.

586,036. Fire Pumps. H. D. Hudson Manufacturing Company, Chicago, Ill.
Filed Feb. 24, 1953, Serial No. 642,642. Published Aug. 4, 1953. Class 23.

586,037. Textile Fabrics of Wool Used in the Manufacture of Men's and Boys' Suits, Overcoats, Topcoats, Trousers, and Slacks. The H. A. Seinsheimer Company, Cincinnati, Ohio.
Filed Feb. 24, 1953, Serial No. 642,700. Published Nov. 24, 1953. Class 42.

586,038. Fountain Pens, Ball Point Pens, Mechanical Pencils, and Combinations Thereof in Sets. Windsor Pen Corp., New York, N. Y.
Filed Feb. 24, 1953, Serial No. 642,715. Published Nov. 17, 1953. Class 37.

586,039. Garment Hangers. Rodon Corporation, Rocky River, Ohio.
Filed Feb. 26, 1953, Serial No. 642,839. Published Nov. 3, 1953. Class 50.

586,040. Outboard Motors. Federated Department Stores, Inc., Cincinnati, Ohio.
Filed Feb. 27, 1953, Serial No. 642,875. Published Aug. 4, 1953. Class 23.

586,041. Men's Hosiery. Premtex Hosiery Co., Inc., New York, N. Y.
Filed Mar. 2, 1953, Serial No. 642,993. Published Nov. 17, 1953. Class 39.

586,042. Electrical Fixtures and Fittings—Namely, Splice Boxes, Cable Connectors, Explosion Boxes, and Switches. Teal Corporation, Irvington, N. J.
Filed Mar. 5, 1953, Serial No. 643,195. Published Nov. 10, 1953. Class 21.

586,043. Kitchen and Dinette Tables and Chairs. Douglas Furniture Corporation, Chicago, Ill.
Filed Mar. 9, 1953, Serial No. 643,300. Published Nov. 17, 1953. Class 32.

586,044. Mouth Wash and Soap for the Teeth. Castilla Products, Inc., New York, N. Y.
Filed Mar. 10, 1953, Serial No. 643,405. Published Nov. 24, 1953. Class 51.

586,045. Heat Seal Papers. The Gummed Products Company, Troy, Ohio.
Filed Mar. 10, 1953, Serial No. 643,420. Published Nov. 3, 1953. Class 37.

586,046. Heat Seal Papers. The Gummed Products Company, Troy, Ohio.
Filed Mar. 10, 1953, Serial No. 643,421. Published Nov. 3, 1953. Class 37.

586,047. Mesh Handbags. Fabrique Bag, Inc., New York, N. Y.
Filed Mar. 11, 1953, Serial No. 643,479. Published Nov. 17, 1953. Class 3.

586,048. Corrugated Paper for Wrapping Automotive Parts. Sherman Paper Products Corporation, Newton, Mass.
Filed Mar. 11, 1953, Serial No. 643,508. Published Nov. 3, 1953. Class 37.

586,049. Overalls, Work and Dress Shirts, Service Coats, Coversuits, Etc. The Van Wert Manufacturing Co., Van Wert, Ohio.
Filed Mar. 11, 1953, Serial No. 643,516. Published Nov. 17, 1953. Class 39.

586,050. Pipe Smoking Tobacco. Jack Schwartz, Chicago, Ill.
Filed Mar. 12, 1953, Serial No. 643,559. Published Nov. 24, 1953. Class 17.

586,051. Piece Goods of Cotton, Rayon, and Mixtures Thereof. Saddler Textiles, Inc., New York, N. Y.
Filed Mar. 13, 1953, Serial No. 643,616. Published Nov. 24, 1953. Class 42.

586,052. Nylon Hosiery for Use by Women and Girls. Belson Company, Green Bay, Wis.
Filed Mar. 16, 1953, Serial No. 643,632. Published Nov. 17, 1953. Class 39.

586,053. Reversible Chalk and Display Board. Claridge Equipment Company, Chicago, Ill., assignor to Harris Preble Fire Doors, Inc., Chicago, Ill., a corporation of Illinois.
Filed Mar. 16, 1953, Serial No. 643,651. Published Nov. 3, 1953. Class 50.

586,054. Ladies' Hosiery. Gotham Hosiery Company, Inc., New York, N. Y.
Filed Mar. 16, 1953, Serial No. 643,678. Published Nov. 24, 1953. Class 39.

586,055. Hosiery for Women and Girls. Manchester Hosiery Mills, Manchester, N. H.
Filed Mar. 16, 1953, Serial No. 643,696. Published Nov. 17, 1953. Class 39.

586,056. Soil Moisture Indicators. Thomas W. Prosser, Riverside, Calif.
Filed Mar. 16, 1953, Serial No. 643,712. Published Sept. 29, 1953. Class 26.

586,057. Mineral Powder Compound To Be Mixed With Water or With Water and Sand for Use as a Plaster or Mortar to Render Porous Masonry Water Resistant. Sta-Dri, Inc., Odenton, Md.
Filed Mar. 17, 1953, Serial No. 643,799. Published Nov. 10, 1953. Class 12.

586,058. Roof Flashing. W. S. Dickey Clay Manufacturing Co., Kansas City, Mo.
Filed Mar. 18, 1953, Serial No. 643,823. Published Nov. 10, 1953. Class 12.

586,059. Railroad Locomotives, the Power Source of Which Is an Internal Combustion Engine. The Fate-Root-Heath Company, Plymouth, Ohio.
Filed Mar. 18, 1953, Serial No. 643,828. Published Sept. 1, 1953. Class 23.

586,060. Flexible Plastic Film in the Roll; and Shelf Lining, Shelf Edging, Draperies, Window Curtains, and Tablecloths, All Made of Flexible Plastic Film. The Kaybee Corporation, New York, N. Y.
Filed Mar. 19, 1953, Serial No. 643,911. Published Nov. 24, 1953. Class 42.

586,061. Women's Full-Fashioned Nylon Hosiery. Chipman Knitting Mills, Easton, Pa.
Filed Mar. 20, 1953, Serial No. 643,944. Published Nov. 17, 1953. Class 39.

586,062. Earthenware, Porcelain, or Bone China Figurines and Animal Statuettes. Doulton & Co., Limited, Burslem and London, England.
Filed Mar. 23, 1953, Serial No. 644,018. Published Nov. 24, 1953. Class 50.

586,063. Finger Rings. Max Fine & Sons, Inc., New York, N. Y.
Filed Mar. 23, 1953, Serial No. 644,023. Published Nov. 10, 1953. Class 28.

586,064. Textile Fabrics Woven From Threads of Cellulose Acetate. Societe Rhodiaceta, Paris, France.
Filed Mar. 23, 1953, Serial No. 644,072. Published Nov. 24, 1953. Class 42.

586,065. Direct Current Electrical Apparatus—Namely, Selenium Rectifier Power Supplies, Controls, and Regulators. James A. Viola, doing business as Rapid Electric Company, New York, N. Y.
Filed Mar. 25, 1953, Serial No. 644,202. Published Nov. 10, 1953. Class 21.

586,066. Women's Foot Socks. Janedale Hosiery Mills, Inc., Blackwood, N. J.
Filed Mar. 27, 1953, Serial No. 644,321. Published Nov. 24, 1953. Class 39.

586,067. Drill Bits. Calumet and Hecla, Inc., Calumet, Mich.
Filed Mar. 30, 1953, Serial No. 644,391. Published Nov. 3, 1953. Class 23.

586,068. Chili Con-Carne, Bologna, Pork Sausage, Bacon, Polish Sausage, Etc. Seattle Packing Company, Seattle, Wash.
Filed Mar. 31, 1953, Serial No. 644,520. Published Nov. 24, 1953. Class 46.

586,069. Textile Fabrics Woven From Threads of Cellulose Acetate. Societe Rhodiaceta, Paris, France.
Filed Mar. 31, 1953, Serial No. 644,521. Published Nov. 24, 1953. Class 42.

586,070. Bench Vises—Namely, Wood Working Vises. The Will-Burt Company, Orrville, Ohio.
Filed Apr. 7, 1953, Serial No. 644,885. Published Nov. 3, 1953. Class 23.

586,071. Jewelry, Not Including Watches—Namely, Necklaces, Pendants, Neck Chains, and Earrings. Dearborn Company, Inc., Providence, R. I.
Filed Apr. 8, 1953, Serial No. 644,901. Published Nov. 10, 1953. Class 28.

586,072. Dungarees. Blue Gem Manufacturing Company, Greensboro, N. C.
Filed Apr. 9, 1953, Serial No. 644,960. Published Nov. 24, 1953. Class 39.

586,073. Cigars. Garcia & Vega, Inc., New York, N. Y.
Filed Apr. 9, 1953, Serial No. 644,971. Published Nov. 24, 1953. Class 17.

586,074. Cigars. Garcia & Vega, Inc., New York, N. Y.
Filed Apr. 9, 1953, Serial No. 644,976. Published Nov. 24, 1953. Class 17.

586,075. Men's, Ladies', and Children's Hosiery. Standard Hosiery Company, New York, N. Y.
Filed Apr. 9, 1953, Serial No. 645,014. Published Nov. 24, 1953. Class 39.

586,076. Piece Goods of Pure Wool or Blended Wool and Mohair or Alpaca, Sold in Bolt. Goodall-Sanford, Inc., Sanford, Maine.
Filed Apr. 10, 1953, Serial No. 645,041. Published Nov. 24, 1953. Class 42.

586,077. Notebooks. National Blank Book Company, Holyoke and Riverside, Holyoke, Mass.
Filed Apr. 13, 1953, Serial No. 645,180. Published Oct. 27, 1953. Class 37.

586,078. Fishing Lines. Sunset Line & Twine Co., Petaluma, Calif.
Filed Apr. 13, 1953, Serial No. 645,201. Published Nov. 24, 1953. Class 22.

586,079. Electric Oven Cooking Units. The A. J. Lindemann & Hoverson Company, Milwaukee, Wis.
Filed Apr. 14, 1953, Serial No. 645,247. Published Nov. 10, 1953. Class 21.

586,080. Metal Cutting Saw Blades. Diamond Saw Works, Inc., Buffalo, N. Y.
Filed Apr. 17, 1953, Serial No. 645,471. Published Nov. 3, 1953. Class 23.

586,081. Billfolds. St. Thomas Inc., Gloversville, N. Y.
Filed Apr. 17, 1953, Serial No. 645,513. Published Nov. 24, 1953. Class 3.

586,082. Envelopes Having Printed Portions Designed To Constitute a Record of Expenses. Harold P. Braun, doing business as Brownie Company, Grand Rapids, Mich.
Filed Apr. 27, 1953, Serial No. 645,949. Published Nov. 3, 1953. Class 37.

586,083. Alfalfa Seed. Berry Seed Company, Clarinda, Iowa.
Filed Apr. 27, 1953, Serial No. 645,948. Published Nov. 3, 1953. Class 1.

586,084. Olives, Jellies, Jams, Peanut Butter, Dried Fruits, Canned Potatoes, and Canned Loganberries. E. S. Stevens Co., Beatrice, Nebr., assignor to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio.
Filed Apr. 24, 1953, Serial No. 645,928. Published Nov. 3, 1953. Class 46.

586,085. Coated Glass Fibers, Filaments, and Strands. Libbey-Owens-Ford Glass Company, Toledo, Ohio.
Filed Apr. 24, 1953, Serial No. 645,906. Published Nov. 3, 1953. Class 1.

586,086. Coated Glass Fibers, Filaments, and Strands. Libbey-Owens-Ford Glass Company, Toledo, Ohio.
Filed Apr. 24, 1953, Serial No. 645,905. Published Nov. 3, 1953. Class 1.

586,087. Orchids. Clarelen Orchid Co., Inc., Madison, Wis.
Filed Apr. 24, 1953, Serial No. 645,870. Published Nov. 3, 1953. Class 1.

586,088. Covered Metal Electrode for Use as a Heating Tool in the Thermic Treatment of Metals. Eutectic Welding Alloys Corporation, Flushing, N. Y.
Filed Apr. 20, 1953, Serial No. 645,558. Published Nov. 10, 1953. Class 21.

586,089. Paper Napkins. Fort Howard Paper Company, Green Bay, Wis.
Filed Apr. 22, 1953, Serial No. 645,704. Published Nov. 3, 1953. Class 37.

586,090. Paper Table Napkins. International Cellucotton Products Company, Chicago, Ill.
Filed Apr. 22, 1953, Serial No. 645,712. Published Nov. 3, 1953. Class 37.

586,091. Hibiscus Plants. Stern's Nurseries, Inc., Geneva, N. Y.
Filed Apr. 22, 1953, Serial No. 645,739. Published Nov. 3, 1953. Class 1.

586,092. Pearls and Pearl Necklaces. A. C. Becken Co., Chicago, Ill.
Filed Apr. 23, 1953, Serial No. 645,770. Published Nov. 10, 1953. Class 28.

586,093. Drill Bits. Reed Roller Bit Company, Houston, Tex.
Filed Apr. 27, 1953, Serial No. 646,016. Published Nov. 3, 1953. Class 23.

586,094. Crab Apple Trees. Stern's Nurseries, Inc., Geneva, N. Y.
Filed Apr. 27, 1953, Serial No. 646,021. Published Nov. 3, 1953. Class 1.

586,095. Children's Dresses, Dressing Robes, Jackets, Panties, Briefs, Vests, Slips, Underwear, Nightgowns, Sleeping Pajamas, and Socks. School-Timer Frocks, Inc., Port Park, S. C., and New York, N. Y.
Filed Apr. 29, 1953, Serial No. 646,172. Published Nov. 24, 1953. Class 39.

586,096. Diatomaceous Materials. National Lead Company, Sayreville, N. J., and New York, N. Y.
Filed May 1, 1953, Serial No. 646,304. Published Nov. 3, 1953. Class 1.

586,097. Leather in the Piece for the Manufacture of Leather Bags, Handbags, and Utility Cases. Eagle-Flagg Tanning Corporation, New York, N. Y.
Filed May 4, 1953, Serial No. 646,372. Published Nov. 3, 1953. Class 1.

586,098. Live Chinchillas and Chinchilla Pelts. Jess & C. A. Cutler, Inc., Columbus, Ga.
Filed May 6, 1953, Serial No. 646,534. Published Nov. 3, 1953. Class 1.

586,099. Ceramic Capacitors. Speer Carbon Company, St. Marys, Pa.
Filed May 6, 1953, Serial No. 646,578. Published Sept. 22, 1953. Class 21.

586,100. Ball Point Pens. Waterman Pen Company, Inc., Seymour, Conn.
Filed May 6, 1953, Serial No. 646,588. Published Nov. 10, 1953. Class 37.

586,101. Unit Comprising a Variable Resistance and a Printed Electronic Circuit Network for Use in Controlling the Audio Output of Amplifiers, Radios, and Television Sets. Globe-Union Inc., Milwaukee, Wis.
Filed May 11, 1953, Serial No. 646,759. Published Nov. 3, 1953. Class 21.

586,102. Mattresses, Box Springs, Crib Mattresses, Hollywood Beds, Bed Springs, Cots, Pillows, Sofa Beds, Bunk Beds, Lounges, Studio Couches, Davenbeds, Chairs, and Love Seats. The United States Bedding Co., St. Paul, Minn.
Filed May 11, 1953, Serial No. 646,829. Published Nov. 17, 1953. Class 32.

586,103. Devotional Desks. E. Alberta Brenner, Wallingford, Conn.
Filed May 13, 1953, Serial No. 646,922. Published Nov. 17, 1953. Class 32.

586,104. Travel Cage for Birds. William L. Blassenham, Richmond, Va.
Filed May 15, 1953, Serial No. 647,062. Published Nov. 24, 1953. Class 3.

586,105. Men's Top Coats, Overcoats, Suits, Sport Coats, and Trousers. H. Freeman & Son, Inc., Philadelphia, Pa.
Filed May 15, 1953, Serial No. 647,066. Published Nov. 24, 1953. Class 39.

586,106. Children's Dresses, Panties, Slips, Pajamas, and Nightgowns. Style Undies, Inc., New York, N. Y.
Filed May 15, 1953, Serial No. 647,107. Published Nov. 24, 1953. Class 39.

586,107. Children's Dresses, Panties, Slips, Pajamas, and Nightgowns. Style Undies, Inc., New York, N. Y.
Filed May 15, 1953, Serial No. 647,108. Published Nov. 24, 1953. Class 39.

586,108. Children's Dresses, Panties, Slips, Pajamas, and Nightgowns. Style Undies, Inc., New York, N. Y.
Filed May 15, 1953, Serial No. 647,109. Published Nov. 24, 1953. Class 39.

586,109. Curtain Tracks. Automatic Devices Company, Allentown, Pa.
Filed May 18, 1953, Serial No. 647,141. Published Nov. 17, 1953. Class 13.

586,110. Electric Capacitors. Good-All Electric Manufacturing Company, Ogallala, Nebr.
Filed May 19, 1953, Serial No. 647,291. Published Nov. 17, 1953. Class 21.

586,111. Wheat Flour. International Milling Company, Minneapolis, Minn.
Filed May 21, 1953, Serial No. 647,419. Published Nov. 24, 1953. Class 46.

586,112. Cigarettes. Larus & Brother Company, Richmond, Va.
Filed May 21, 1953, Serial No. 647,429. Published Nov. 24, 1953. Class 17.

586,113. Belts, Consisting Wholly or Partially of Leather, for Personal Wear. Santa Fe Novelty Company, Denver, Colo.
Filed May 22, 1953, Serial No. 647,545. Published Nov. 24, 1953. Class 39.

586,114. Hardware—Namely, Hinges, Knobs, Pulls, Latches, and Ring Pulls or Door Knockers. The Stanley Works, New Britain, Conn.
Filed May 22, 1953, Serial No. 647,556. Published Nov. 24, 1953. Class 13.

586,115. Liqueur. A. & G. J. Caldwell, Inc., Newburyport, Mass.
Filed May 25, 1953, Serial No. 647,594. Published Nov. 17, 1953. Class 49.

586,116. Continuous Weld Standard Steel Pipe and Electric Weld Pipe. Kaiser Steel Corporation, Oakland, Calif.
Filed May 25, 1953, Serial No. 647,629. Published Nov. 24, 1953. Class 13.

586,117. Insulated Electric Wires, and Insulated Electric Cables. Essex Wire Corporation, Detroit, Mich.
Filed May 28, 1953, Serial No. 647,840. Published Nov. 24, 1953. Class 21.

586,118. Slide Fasteners. Universal Fastener Company, Detroit, Mich.
Filed May 28, 1953, Serial No. 647,896. Published Nov. 24, 1953. Class 13.

586,119. Wines. E. & J. Gallo Winery, Modesto, Calif.
Filed June 8, 1953, Serial No. 648,385. Published Nov. 24, 1953. Class 47.

586,120. Ready-To-Eat Cereal. General Mills, Inc. Wilmington, Del., and Minneapolis, Minn.
Filed June 12, 1953, Serial No. 648,661. Published Nov. 24, 1953. Class 46.

586,121. Fresh Citrus Fruit. Deerfield Groves Company, Wabasso, Fla.
Filed June 22, 1953, Serial No. 649,133. Published Nov. 24, 1953. Class 46.

586,122. Fishing Rods. Lamiglas Company, Kent, Wash.
Filed June 29, 1953, Serial No. 649,517. Published Nov. 24, 1953. Class 22.

586,123. Fishing Rods. Lamiglas Company, Kent, Wash.
Filed June 29, 1953, Serial No. 649,519. Published Nov. 24, 1953. Class 22.

586,124. Thermostatic Bimetals. The H. A. Wilson Company, Union, N. J.
Filed July 2, 1953, Serial No. 649,745. Published Nov. 24, 1953. Class 14.

586,125. Thermostatic Bimetals. The H. A. Wilson Company, Union, N. J.
Filed July 2, 1953, Serial No. 649,746. Published Nov. 24, 1953. Class 14.

586,126. Thermostatic Bimetals. The H. A. Wilson Company, Union, N. J.
Filed July 2, 1953, Serial No. 649,747. Published Nov. 24, 1953. Class 14.

586,127. Fishing Reels. James Heddon's Sons, Dowagiac, Mich.
Filed Sept. 3, 1953, Serial No. 652,724. Published Nov. 24, 1953. Class 22.

Service Marks

586,128. Sales Engineering in Connection With Aircraft Products. M. J. Johnson, doing business as M. J. Johnson Company, Morristown, N. J.
Filed Oct. 5, 1950, Serial No. 604,481. Published Nov. 17, 1953. Class 101.

586,129. Sales Promotion of Clients' Goods or Services by Establishing an Incentive Program To Increase Clients' Individual Salesmen's Quotas Through the Issuance of Prize Checks to the Salesmen Redeemable in Merchandise Prizes. Belnap & Thompson, Inc., Chicago, Ill.
Filed Apr. 6, 1953, Serial No. 644,715. Published Sept. 29, 1953. Class 101.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

586,130. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Screw Conveyor Corporation, Hammond, Ind. Original filed, act of 1946, Principal Register, Aug. 16, 1948; amended to application, Supplemental Register, Sept. 11, 1952, Serial No. 563,501.

SCREW-FLO

No claim is made to the word "Screw" apart from the mark as shown.
For Screw Conveyor Apparatus—Namely, Helical and Spiral Screw Conveyors.
Claims use since July 24, 1947.

586,131. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) James W. Dickey, doing business as Ohio Hoist & Manufacturing Company, Garfield Heights, Ohio. Original filed, act of 1946, Principal Register, Mar. 27, 1951; amended to application, Supplemental Register, Mar. 3, 1953, Serial No. 611,831.

OHIO

For Nonelectric Chain Hoists.
Claims use since on or about Feb. 12, 1951.

586,132. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) James W. Dickey, doing business as Ohio Hoist & Manufacturing Company, Garfield Heights, Ohio. Original filed, act of 1946, Principal Register, Mar. 28, 1951; amended to application, Supplemental Register, Mar. 3, 1953, Serial No. 611,892.

OHIO HOIST

The applicant disclaims the word "Hoist" apart from the mark.
For Nonelectric Chain Hoists.
Claims use since on or about Mar. 27, 1951.

586,133. (Class 28. Jewelry and Precious-Metal Ware.) Feature Ring Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 7, 1951; amended to application, Supplemental Register, May 21, 1953, Serial No. 618,489.

FOREVER TOGETHER

For Precious Metal Engagement Ring and Wedding Ring Locked Together.
Claims use since January 1948.

586,134. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Insul-Wool Machinery Manufacturing Co., Wichita, Kans., assignor to Lester Wilkinson, Wichita, Kans., as trustee. Original filed, act of 1946, Principal Register, Dec. 17, 1948; amended to application, Supplemental Register, Aug. 27, 1953, Serial No. 622,598.

Hoppes POSITIVE FEED FERTA-LIZER

The words "Positive Feed" are disclaimed.
For Tractor Drawn Fertilizer Spreaders.
Claims use since July 1948.

586,135. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Vend-A-Record Corporation of America, Baltimore, Md. Original filed, act of 1946, Principal Register, Dec. 17, 1951; amended to application, Supplemental Register, Aug. 20, 1953, Serial No. 622,634.

VEND-A-RECORD

For Coin-Operated Machines for Dispensing Phonograph Records.
Claims use since Mar. 2, 1950.

586,136. (Class 50. Merchandise Not Otherwise Classified.) Ralph E. Grossman, doing business as Picture Craft Company, Decatur, Ill. Filed Mar. 19, 1952, Serial No. 626,673.

You Can Paint

For Artists' Painting Kits Comprising Canvases Having Various Designs Printed Thereon Ready for Painting, Capsules of Oil Paints in Various Colors, and Brushes.
Claims use since Jan. 3, 1951.

586,137. (Class 21. Electrical Apparatus, Machines, and Supplies.) Betts Machine Company, Warren, Pa. Original filed, act of 1946, Principal Register, Apr. 30, 1952; amended to application, Supplemental Register, Nov. 3, 1953, Serial No. 628,915.

SNAP SEAL

For Electrically Operated Vehicle Clearance Lights.
Claims use since Dec. 7, 1951.

586,138. (Class 32. Furniture and Upholstery.) The Nurre Companies, Inc., Bloomington, Ind. Original filed, act of 1946, Principal Register, June 12, 1952; amended to application, Supplemental Register, Nov. 23, 1953, Serial No. 631,120.

Belden

For Glass Mirrors, for Use in the Hand on the Wall and in Connection With Furniture.
Claims use since May 26, 1952.

586,139. (Class 2, Receptacles.) Paul H. Lange, Park Ridge, Ill. Original filed, act of 1946, Principal Register, July 10, 1952; amended to application, Supplemental Register, Oct. 28, 1953, Serial No. 632,381.

SAF-PAK

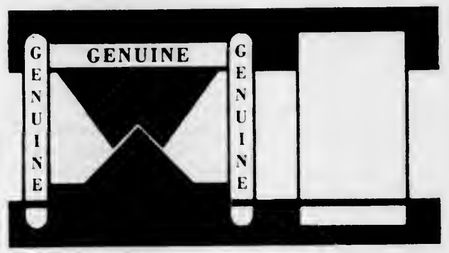
For Preformed Cardboard Holders for Cut Flowers Designed at the Bottom to Partially Close and Fold Around the Stems and Open and Flat at the Top Where the Blooms May Lean for Support.
Claims use since on or about Nov. 15, 1951.

586,140. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Samuel Taylor, doing business as S. Taylor Co., Culver City, Calif. Original filed, act of 1946, Principal Register, July 11, 1952; amended to application, Supplemental Register, Aug. 25, 1953, Serial No. 632,455.

Saf-Pic

For Ice Picks.
Claims use since Mar. 4, 1952.

586,141. (Class 6. Chemicals and Chemical Compositions.) Genuine Chemicals Corporation, Brooklyn, N. Y. Original filed, act of 1946, Principal Register, July 31, 1952; amended to application, Supplemental Register, Dec. 23, 1952, Serial No. 633,306.



The drawing is lined for blue and red.
For Brake Fluid.
Claims use since June 10, 1949.

586,142. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Hyster Company, Portland, Oreg. Original filed, act of 1946, Principal Register, Sept. 15, 1952; amended to application, Supplemental Register, Aug. 11, 1953, Serial No. 635,265.

GRID

For Roller Drums for Use on Construction and Road Building Equipment.
Claims use since Aug. 1, 1949.

586,143. (Class 28, Jewelry and Precious-Metal Ware.) Swank, Inc., Attleboro, Mass. Original filed, act of 1946, Principal Register, Sept. 30, 1952; amended to application, Supplemental Register, Dec. 11, 1953, Serial No. 635,979.

TY-LOK

For Cravat Holders Made in Whole of, in Part of, or Plated With Precious Metal.
Claims use since June 24, 1952.

586,144. (Class 26. Measuring and Scientific Appliances.) Jake Levin and Son, Kansas City, Mo. Original filed, act of 1946, Principal Register, Dec. 5, 1952; amended to application, Supplemental Register, July 1, 1953, Serial No. 639,059.

JASON

For Optical Glasses—Namely, Theatre Glasses, Field Glasses, Opera Glasses and Binoculars.
Claims use since Dec. 1, 1950.

586,145. (Class 37. Paper and Stationery.) Evenline Products, Boston, Mass., and Providence, R. I. Original filed, act of 1946, Principal Register, Jan. 28, 1953; amended to application, Supplemental Register, Dec. 11, 1953, Serial No. 641,444.

EVENLINE

For Mechanical Pencils and Leads.
Claims use since Nov. 18, 1952.

586,146. (Class 1. Raw or Partly Prepared Materials.) Eagle-Ottawa Leather Company, Grand Haven, Mich. Original filed, act of 1946, Principal Register, Feb. 13, 1953; amended to application, Supplemental Register, Nov. 2, 1953, Serial No. 642,211.

OXFORD GLAZE

For Upholstery Leather.
Claims use since August 1951.

586,147. (Class 39. Clothing.) Cosmopolitan Manufacturing Company, doing business as Scott-Allen Clothes, Boston, Mass. Original filed, act of 1946, Principal Register, Feb. 17, 1953; amended to application, Supplemental Register, Nov. 13, 1953, Serial No. 642,344.

Scott Allen

For Men's Sport Jackets, Top Coats, and Slacks.
Claims use since Nov. 1, 1952.

586,148. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Leo J. Murray, doing business under the name of Hayward Woolen Co., East Douglas, Mass. Original filed, act of 1946, Principal Register, Mar. 18, 1953; amended to application, Supplemental Register, Nov. 3, 1953, Serial No. 643,850.

FRAMINGHAM

For Textile Fabrics in the Piece, of Wool, Worsted, and Combinations Thereof.
Claims use since Feb. 2, 1952.

586,149. (Class 44. Dental, Medical, and Surgical Appliances.) The Seamless Rubber Company, New Haven, Conn. Original filed, act of 1946, Principal Register, Apr. 8, 1953; amended to application, Supplemental Register, July 10, 1953, Serial No. 644,933.

COMPACTO

For Folding Fountain Syringes.
Claims use since Dec. 31, 1931.

586,150. (Class 50. Merchandise Not Otherwise Classified.) Walter P. Taylor, New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 21, 1953; amended to application, Supplemental Register, Oct. 7, 1953, Serial No. 645,678.

INNER-GLO

Applicant claims ownership of Registration No. 559,170.
For Advertising, Directional, Road, and Warning Non-Electrical Plastic Signs.
Claims use since June 1, 1952.

586,151. (Class 50. Merchandise Not Otherwise Classified.) Stinson Manufacturing Co., Inc., Spokane, Wash. Original filed, act of 1946, Principal Register, Apr. 23, 1953; amended to application, Supplemental Register, Oct. 16, 1953, Serial No. 645,841.

Featherweight

For Scaffold Planks.
Claims use since Nov. 15, 1948.

586,152. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Botany Mills, Inc., Passaic, N. J. Filed Aug. 12, 1953, Serial No. 651,691.
Applicant claims ownership of Registration No. 346,900.

CHINATWILL

For Woolen Piece Goods.
Claims use since July 16, 1949.

TRADE-MARK REGISTRATIONS RENEWED

41,422. "C. C. & G. P. CO." ETC. AND DESIGN. Registered Nov. 3, 1903. Continental-Caoutchouc- und Gutta-Percha-Compagnie. Re-renewed Nov. 3, 1953, to Continental Gummi-Werke Aktiengesellschaft, Hanover, Germany, a corporation organized under the laws of Germany. Pneumatic Tires for Vehicles of All Kinds. Class 35.

41,550. TEON. Registered Dec. 1, 1903. Fleming, Birkby & Goodall, Limited, Halifax, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Re-renewed Dec. 1, 1953. Machine Belts and Belting. Class 35.

42,055. BULL AND BEAR. Registered Feb. 16, 1904. Parker Brothers, Salem, Mass., a corporation of Maine. Re-renewed Feb. 16, 1954. Games Played With Cards. Class 22.

42,056. REPRESENTATION OF BULL'S HEAD WITH NOSE-RING. Registered Feb. 16, 1904. Parker Brothers, Salem, Mass., a corporation of Maine. Re-renewed Feb. 16, 1954. Games Played With Cards. Class 22.

42,057. REPRESENTATION OF BEAR'S HEAD. Registered Feb. 16, 1904. Parker Brothers, Salem, Mass., a corporation of Maine. Re-renewed Feb. 16, 1954. Games Played With Cards. Class 22.

93,893. ECLIPSE. Registered Oct. 21, 1913. James Neill & Co. Re-renewed Oct. 21, 1953, to James Neill & Company (Sheffield) Limited, Sheffield, England, a company with limited liability organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Steel in Bar and Rod for Tool Manufacture. Class 14.

94,096. REPRESENTATION OF BUFFALO. Registered Nov. 4, 1913. William T. J. Lowe, Buffalo, N. Y. Re-renewed Nov. 4, 1953, to The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Spoon Fishing-Bait. Class 22.

94,190. KAZOL. Registered Nov. 11, 1913. Y. T. Matzoon Company. Re-renewed Nov. 11, 1953, to Kazol Inc., Chicago, Ill., a corporation of Illinois. Medicinal Food Consisting of Fermented Milk in Liquid and Solid Form. Class 46.

94,336. "KON KRETE KRAFT" ETC. AND DESIGN. Registered Nov. 25, 1913. The Union Bag and Paper Company, Jersey City, N. J., and New York, N. Y. Re-renewed Nov. 25, 1953, to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey. Paper Bags. Class 2.

94,544. "GIT". Registered Dec. 16, 1913. Coughlan Brothers, Kansas City, Mo. Re-renewed Dec. 16, 1953, to Esso Standard Oil Company, New York, N. Y., a corporation of Delaware. Exterminator for Bedbugs, Cockroaches, Ants, Crickets, and All Other Household Vermin. Class 6.

94,561. SEALERINE. Registered Dec. 16, 1913. Michael McNamara. Re-renewed Dec. 16, 1953, to Boydell Bros. Co., Detroit, Mich., a corporation of Michigan. Liquid First-Coater in Wooden or Metal Packages. Class 16.

94,891. "MOTHER GOOSE" AND DESIGN. Registered Jan. 13, 1914. The Dunlop Milling Company, Clarksville, Tenn. Re-renewed Jan. 13, 1954, to General Foods Corporation, New York, N. Y., a corporation of Delaware. Self-Rising Wheat-Flour. Class 46.

94,910. KAMBRO. Registered Jan. 13, 1914. Kampfe Bros., New York, N. Y. Re-renewed Jan. 13, 1954, to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia. Shaving-Brushes. Class 29.

94,995. "HOLLISTON BOOK CLOTHS" AND DESIGN. Registered Jan. 20, 1914. The Holliston Mills. Re-renewed Jan. 20, 1954, to The Holliston Mills, Inc., Norwood, Mass., a corporation of Massachusetts. Cloth Used in Bookbinding. Class 42.

95,149. "SCOTCH MIST PROOFED" AND DESIGN. Registered Feb. 3, 1914. Rogers Peet Company, New York, N. Y., a corporation of New York. Re-renewed Feb. 3, 1954. Outer Suits and Overcoats. Class 39.

95,639. H & W. Registered Mar. 3, 1914. Louisville Paint Mfg. Co., Louisville, Ky., a corporation of Kentucky. Re-renewed Mar. 3, 1954. Dry, Paste and Ready-Mixed Paints. Class 16.

95,653. OXWELD. Registered Mar. 3, 1914. Oxweld Acetylene Company, Chicago, Ill. Re-renewed Mar. 3, 1954, to Union Carbide and Carbon Corporation, New York, N. Y., a corporation of New York. Gas-Generators, Acetylene-Blowpipes, and Acetylene Cutting-Torches. Class 34.

95,678. THE KATZENJAMMER KIDS! Registered Mar. 3, 1914. Star Company. Re-renewed Mar. 3, 1954, to The Hearst Corporation, New York, N. Y., a corporation of Delaware. A Newspaper-Section Published Periodically. Class 38.

95,760. REPRESENTATION OF HERCULES. Registered Mar. 10, 1914. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Re-renewed Mar. 10, 1954. Dynamite and Gelatinous Explosives, Sporting and Blasting Powder, Etc. Class 9.

95,761. HERCULES. Registered Mar. 10, 1914. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Re-renewed Mar. 10, 1954. Dynamite and Gelatinous Explosives, Sporting and Blasting Powder, Fuses, and Caps. Class 9.

302,057. LAKESHORE. Registered Mar. 28, 1933. Fred G. Cary. Renewed Mar. 28, 1953, to Lakeshore Fruit Co., Lodi, Calif., a partnership. Fresh Grapes. Class 46.

302,853. MINITON. Registered May 2, 1933. Leo M. Cooper, doing business as Leo M. Cooper Co., New York, N. Y. Renewed May 2, 1953, to White Swan Uniforms, Inc., Yonkers, N. Y., a corporation of New York. Nurses' Uniforms, Maids' Uniforms, and Uniform Dresses. Class 39.

304,073. CRUSADER. Registered June 20, 1933. Essex Rubber Company, Trenton, N. J., a corporation of New Jersey. Renewed June 20, 1953. Rubber Heels. Class 39.

304,770. PENLACO. Registered July 18, 1933. Pennsylvania Lubricating Company, Pittsburgh, Pa. Renewed July 18, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Paint Oils. Class 16.

305,431. DOC SAVAGE MAGAZINE. Registered Aug. 15, 1933. Street & Smith Publications, Inc. Renewed Aug. 15, 1953, to Street & Smith Publications, Inc., New York, N. Y., a corporation of New York. Periodical. Class 38.

305,532. CERTEX. Registered Aug. 22, 1933. Essex Rubber Company, Trenton, N. J., a corporation of New Jersey. Renewed Aug. 22, 1953. Shoe Soles Formed of Rubber or Rubber Compositions. Class 39.

306,064. JIFFY-LAX. Registered Sept. 5, 1933. Violet V. Gesell, doing business as Jiffy-Lax Company. Renewed Sept. 5, 1953, to R. Gesell, Incorporated, New York, N. Y., a corporation of New York. Lubricating Laxative for Rectal Administration. Class 18.

307,286. ENER-G. Registered Oct. 24, 1933. F. G. Vogt & Sons, Incorporated. Renewed Oct. 24, 1953, to Karl Seiler & Sons, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Sausage. Class 46.

307,320. CROFT & CO. Registered Oct. 24, 1933. Croft & Co. Limited, London, England, a company organized under the laws of Great Britain. Renewed Oct. 24, 1953. Port Wines. Class 47.

307,321. CROFT'S. Registered Oct. 24, 1933. Croft & Co. Limited, London, England, a company organized under the laws of Great Britain. Renewed Oct. 24, 1953. Port Wine. Class 47.

307,335. FIFTH AVENUE. Registered Oct. 24, 1933. Donahoe's Inc., Pittsburgh, Pa., a corporation of Delaware. Renewed Oct. 24, 1953. Canned Vegetables—Namely, Asparagus, Lima Beans, Etc. Class 46.

307,840. CLEAN-O-MIST. Registered Nov. 7, 1933. Higley Chemical Company, Dubuque, Iowa, a corporation of Iowa. Renewed Nov. 7, 1953. Chemical Compound for Cleaning Floors, Having Incidental Preserving and Polishing Properties. Class 4.

307,852. "FLUID HEAT" AND DESIGN. Registered Nov. 7, 1933. Anchor Post Fence Company. Renewed Nov. 7, 1953, to Anchor Post Products, Inc., Baltimore, Md., a corporation of New Jersey. Oil Burners. Class 34.

308,051. "DRY SACK" ETC. WITHIN CIRCLE DESIGN. Registered Nov. 21, 1933. Williams & Humbert. Renewed Nov. 21, 1953, to Williams & Humbert Limited, London, England, a limited liability company registered under the laws of Great Britain. Sherry Wine. Class 47.

308,052. "WALNUT BROWN" ETC. Registered Nov. 21, 1933. Williams & Humbert. Renewed Nov. 21, 1953, to Williams & Humbert Limited, London, England, a limited liability company registered under the laws of Great Britain. Sherry Wine. Class 47.

308,145. VAPOSECTOR. Registered Nov. 21, 1933. West Disinfecting Company, Long Island City, N. Y., a corporation of New York. Renewed Nov. 21, 1953. Machines for Vaporizing Disinfectants, and/or Insecticides, and/or Deodorants. Class 23.

308,311. "AUSTIN" ETC. AND DESIGN LINED FOR RED. Registered Nov. 28, 1933. Austin Powder Company, Cleveland, Ohio, a corporation of Ohio. Renewed Nov. 28, 1953. Blasting Powder, Pellet Powder, Dynamite, Permissible Explosives, Caps, and Exploders. Class 9.

308,389. "COURVOISIER" ETC. AND DESIGN. Registered Dec. 5, 1933. Courvoisier, Limited, Jarnac, France, a corporation organized under the laws of England. Renewed Dec. 5, 1953. Cognac Brandies. Class 49.

308,542. CALA-BONE. Registered Dec. 5, 1933. Pacific Bone Coal & Fertilizing Company. Renewed Dec. 5, 1953, to Consolidated Chemical Industries, Inc., San Francisco, Calif., a corporation of Delaware. Steamed Bone Meal and Ground Steam Bone. Class 10.

308,766. ALCO. Registered Dec. 19, 1933. Alco Products Incorporated. Renewed Dec. 19, 1953, to American Locomotive Company, New York, N. Y., a corporation of New York. Refinery Heat Exchangers—Namely, Oil to Oil Vapor Heat Exchangers, Etc. Class 34.

309,302. "CADILLAC" ETC. AND DESIGN LINED FOR BLUE, RED, YELLOW, AND GOLD. Registered Jan. 9, 1934. J. Mazer Sons Cigar Company, Detroit, Mich. Renewed Jan. 9, 1954, to W. Wilson Fillmore, Windsor, Pa. Cigars. Class 17.

309,498. LYPTONE. Registered Jan. 16, 1934. Alfred G. E. Woelbing, doing business as Carma Laboratories, Chicago, Ill. Renewed Jan. 16, 1954, to The Nestle-LeMur Company, New York, N. Y., a corporation of Ohio. Preparation for Chapped Lips. Class 18.

310,079. OLD FITZGERALD. Registered Feb. 13, 1934. W. L. Weller & Sons, Louisville, Ky. Renewed Feb. 13, 1954, to Stitzel-Weller Distillery, Shively, Ky., a corporation of Kentucky. Whiskies. Class 49.

310,080. MAMMOTH CAVE. Registered Feb. 13, 1934. W. L. Weller & Sons, Louisville, Ky. Renewed Feb. 13, 1954, to Stitzel-Weller Distillery, Shively, Ky., a corporation of Kentucky. Whiskies. Class 49.

310,205. "GOOD YEAR" AND DESIGN. Registered Feb. 13, 1934. The Goodyear Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Renewed Feb. 13, 1954. Storage Batteries and Spark Plugs. Class 21.

310,475. FRANCHETTE. Registered Feb. 27, 1934. Arkwright Merchandising Corporation, New York, N. Y., a corporation of New York. Renewed Feb. 27, 1954. Toilet Powder, Perfume, Talcum Powder, Lip and Face Rouge, Etc. Class 51.

310,480. BIG NICKEL. Registered Feb. 27, 1934. Frozen Confections, Inc. Renewed Feb. 27, 1954, to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware. Frozen Confections and Ice Cream Confection on Sticks. Class 46.

310,529. "OLD WLW" ETC. AND DESIGN. Registered Feb. 27, 1934. W. L. Weller & Sons, Louisville, Ky. Renewed Feb. 27, 1954, to Stitzel-Weller Distillery, Shively, Ky., a corporation of Kentucky. Whiskies. Class 49.

310,750. "MOORLAND" ETC. AND DESIGN. Registered Mar. 6, 1934. R. B. Smith & Son Limited, Perth, Scotland, a company incorporated under the laws of Great Britain. Renewed Mar. 6, 1954. Whisky and Other Potable Distilled Liquors. Class 49.

310,863. "DEPENDABLE" ETC. AND DESIGN. Registered Mar. 13, 1934. Fremont Fruit Association, Exeter, Calif., a corporation of California. Renewed Mar. 13, 1954. Fresh Grapes. Class 46.

310,926. "JOHNNY WRIGHT'S" ETC. AND DESIGN. Registered Mar. 13, 1934. Reid, Wright & Holloway (Distillers) Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed Mar. 13, 1954. Scotch Whisky. Class 49.

311,732. "CALLAWAY MILLS" AND DESIGN. Registered Apr. 3, 1934. Callaway Mills. Renewed Apr. 3, 1954, to Callaway Mills Company, La Grange, Ga., a corporation of Georgia. Knit and Woven Piece Goods and Pile Fabrics Made of Cotton, Wool, Etc. Class 42.

311,999. SPRING HILL. Registered Apr. 10, 1934. The American Medicinal Spirits Company, Louisville, Ky. Renewed Apr. 10, 1954, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Whiskey. Class 49.

312,011. MAYFIELD. Registered Apr. 10, 1934. The American Medicinal Spirits Company, Louisville, Ky. Renewed Apr. 10, 1954, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Whiskey. Class 49.

312,110. OLD CABIN STILL. Registered Apr. 17, 1934. W. L. Weller & Sons, Inc., Louisville, Ky. Renewed Apr. 17, 1954, to Stitzel-Weller Distillery, Shively, Ky., a corporation of Kentucky. Whiskies. Class 49.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

167,627. BIG GUN. Registered May 1, 1923. The Northwestern Consolidated Milling Company, Minneapolis, Minn. Wheat Flour. Class 46. Restricted under the provisions of section 18 of the Trade-Mark Act of 1946 to that area of the United States excluding the area comprising the States of California, Oregon, Washington, Texas, Louisiana, Mississippi, and Alabama, the Territories of Hawaii and Alaska, the dependency of Puerto Rico, and in the export trade to Cuba, Central and South America, the Philippine Islands, the Orient, Great Britain, and the Scandinavian countries, by order of the Commissioner dated Jan. 19, 1954, following decision on Concurrent Use Proceeding No. 132, *Fisher Flouring Mills Company* v. *The Northwestern Consolidated Milling Company*.

211,665. "YELLOWSTONE" AND DESIGN. Registered Apr. 13, 1926. Paxton & Gallagher Co., Omaha, Nebr. Canned Peas, Etc. Class 46. Restricted under the provisions of section 18 of the Trade-Mark Act of 1946 to that area of the United States excluding the area comprising the States of Montana, Idaho, Oregon, Washington, California, and the following named counties in the State of Wyoming, to wit: Park, Big Horn, Washakie, Sheridan, Johnson, and Hot Springs, by order of the Commissioner dated Jan. 19, 1954, following decision on Concurrent Use Proceeding No. 133, *Midland Canning Corporation* v. *Paxton & Gallagher Co.*

281,562. SYN-POR POR-SYN. Registered Mar. 24, 1931. O'Neil Duro Company, Milwaukee, Wis. Paint Enamels in Dry Paste, Etc. Class 16. The drawing is hereby amended to appear as follows:

SYN-POR

287,211. "SE-CUR-IT" AND DESIGN. Registered Sept. 15, 1931. Howe & French, Inc., Boston, Mass. Adhesive Liquid Cement. Class 5. The drawing is hereby amended to appear as follows:

SE-CUR-IT

405,120. "VANLINERS" AND DESIGN. Registered Jan. 11, 1944. Bekins Vanlines Company, Omaha, Nebr. Automotive Trucks. Class 19. Corrected as follows: In the certificate, lines 2 and 16; in the heading and signature to the statement; and in line 1 of the statement, "Bekins Vanlines Company" should be *Bekins Van Lines Co.*

548,420. "GILEAD" AND DESIGN. Registered Sept. 18, 1951. United Mills Corporation, Mount Gilead, N. C. Brassières, Slips, Etc. Class 39. The drawing is hereby amended to appear as follows:



584,312. LA BELLE. Registered Jan. 5, 1954. Crucible Steel Company of America, New York, N. Y. Steel Bars, Rods, Billets, Blooms, Sheets, Plates, Slabs, Strips, Blocks, Discs, and Forgings and for Steel in Special Shapes. Class 14. Corrected as follows: In the statement, column 1, line 7, for "STEEL" read *TOOL STEEL IN THE FORM OF*; lines 9 and 10, strike out "FOR STEEL"; column 2, line 6, after "on" insert *tool*; line 11, after "1878." insert the following paragraph:

Applicant is the owner of Registration Number 292,755.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

338,703. WHIZ. Registered Sept. 15, 1936. Culbertson Lemon Association, Saticoy, Calif. Fresh Citrus Fruit. Class 46. New certificate under section 7(c) issued Feb. 23, 1954, to Buenaventura Lemon Co. Inc., Saticoy, Calif., a corporation of California.

338,704. PARADE. Registered Sept. 15, 1936. Culbertson Lemon Assn., Saticoy, Calif. Fresh Citrus Fruit. Class 46. New certificate under section 7(c) issued Feb. 23, 1954, to Buenaventura Lemon Co. Inc., Saticoy, Calif., a corporation of California.

338,705. GUIDE. Registered Sept. 15, 1936. Culbertson Lemon Assn., Saticoy, Calif. Fresh Citrus Fruit. Class 46. New certificate under section 7(c) issued Feb. 23, 1954, to Buenaventura Lemon Co. Inc., Saticoy, Calif., a corporation of California.

372,670. SOLO. Registered Nov. 7, 1939. Culbertson Lemon Assn., Saticoy, Calif. Fresh Citrus Fruit. Class 46. New certificate under section 7(c) issued Feb. 23, 1954, to Buenaventura Lemon Co. Inc., Saticoy, Calif., a corporation of California.

433,738. AQUA. Registered Oct. 28, 1947. Culbertson Investment Company, also doing business as Geo. C. Power Lemon Ranch, Ventura, Calif. Fresh Citrus Fruits. Class 46. New certificate under section 7(c) issued Feb. 23, 1954, to Buenaventura Lemon Co. Inc., Saticoy, Calif., a corporation of California.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 440,170. Registered Aug. 17, 1948. Arnold, Hoffman & Co., Incorporated, Providence, R. I., a corporation of Rhode Island. Republished by registrant.

AHCOQUINONE

For Catalyst and Coloring Products for Textiles and Plastics.

Claims use since Apr. 9, 1946.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 306,698. Registered Sept. 26, 1933. Famous Mineral Water Co., Mineral Wells, Tex., a corporation of Texas. Republished by registrant.



The drawing is lined for red.

For Mineral Crystals and Evaporated Mineral Water Residue, for the Treatment of Constipation, Indigestion, and Liver and Kidney Troubles.

Claims use since Mar. 12, 1915.

CLASS 37

PAPER AND STATIONERY

Reg. No. 438,725. Registered May 11, 1948. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

SAXON

For Writing and Printing Paper and Envelopes.
Claims use since March 1904.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 437,250. Registered Mar. 9, 1948. The New Yorker Magazine, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

THE OMNIPOTENT WHOM

For Magazine Column.
Claims use since on or about Apr. 8, 1944.

Reg. No. 437,785. Registered Mar. 30, 1948. The New Yorker Magazine, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

NO COMMENT DEPARTMENT

For Magazine Column.
Claims use since on or about Oct. 6, 1934.

CLASS 39

CLOTHING

Reg. No. 306,372. Registered Sept. 19, 1933. John B. Stetson Company, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

The Stetson UPSWING

For Men's and Boys' Felt and Straw Hats and Cloth Caps, Men's Silk Hats, and Felt and Straw Hats for Women and Children.
Claims use since Jan. 1, 1866.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 174,100. Registered Oct. 2, 1923. Naumkeag Steam Cotton Company, Salem, Mass., a corporation of Massachusetts. Republished by registrant.

DIAMOND 4

The drawing is lined for blue.
For Pillow Cases.
Claims use since 1900.

Reg. No. 174,101. Registered Oct. 2, 1923. Naumkeag Steam Cotton Company, Salem, Mass., a corporation of Massachusetts. Republished by registrant.

DIAMOND 62

The drawing is lined for red.
For Pillow Cases.
Claims use since 1900.

Reg. No. 306,595. Registered Sept. 26, 1933. Joseph Bancroft & Sons Co., Wilmington, Del., a corporation of Delaware. Republished by registrant.

"BANCO-SUPER-SHRUNK"

The word "Shrunk" is disclaimed apart from the mark as shown.
For Cotton Piece Goods.
Claims use since May 15, 1933.

Reg. No. 437,426. Registered Mar. 23, 1948. Naumkeag Steam Cotton Company, Salem, Mass., a corporation of Massachusetts. Republished by registrant.

WONDER-WEAR

The word "Wear" is disclaimed apart from the mark as shown.
For Cotton Sheeting, Sheets, and Pillow Cases.
Claims use since 1936.

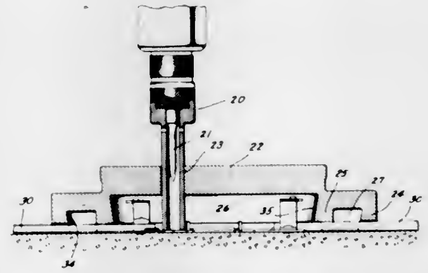
REISSUES

FEBRUARY 23, 1954

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,786
ARMOR SHIELD FOR PROJECTILE TYPE FASTENINGS

Richard K. Baisch, Cottage City, Md., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Original No. 2,594,275, dated April 29, 1952, Serial No. 252,788, October 23, 1951. Application for reissue March 18, 1953, Serial No. 343,274
4 Claims. (Cl. 1—44.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)

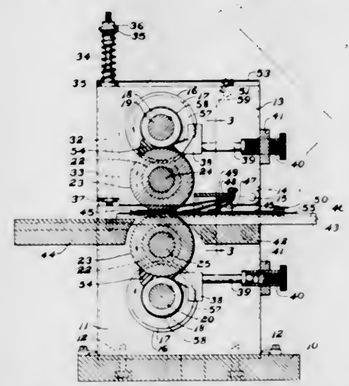


1. An armor shield provided with an aperture through its upper surface for receiving the muzzle of a tool adapted to insert explosive propelled fastenings, an integral marginal flange thereon forming a missile confining chamber with a surface against which said flange is held, the inner surface of said flange extending from its outer edge upwardly and outwardly to form a confining surface to arrest any flying pieces of material scattered by explosive force, said armor shield being provided with pressure relieving vents.

23,787
APPARATUS FOR COATING STRIP MATERIAL

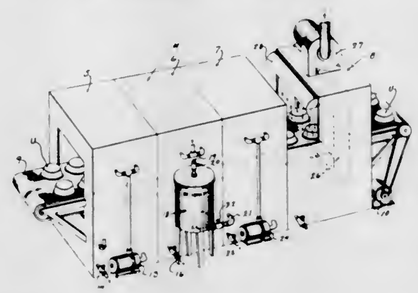
Herbert L. Davis, Walpole, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Original No. 2,588,967, dated March 11, 1952, Serial No. 94,638, May 21, 1949. Application for reissue March 9, 1953, Serial No. 341,386
18 Claims. (Cl. 118—5)

16. Apparatus for coating a flexible article comprising a coating roll adapted to advance said article and apply a coating thereto, a backing roll opposed to said coating roll and revolving at a lower peripheral speed than said coating roll, said backing roll being adapted to carry coating material on its face, scraper means in the nip between said coating roll and backing roll in the delivery region thereof adapted to scrape at least a portion of said coating material from said backing roll to the advanced face of said coating roll, and supporting means for supporting said article in its advanced past said coating roll.



23,788
METHOD OF WASHING ALUMINUM KITCHEN UTENSILS

Edgar W. Detjen, Kiel, Wis., assignor to Stoelting Brothers Company, Kiel, Wis., a corporation
Original No. 2,633,437, dated March 31, 1953, Serial No. 239,520, July 31, 1951. Application for reissue October 14, 1953, Serial No. 386,145
2 Claims. (Cl. 134—25)



2. The method of washing aluminum kitchen utensils to produce a bright uniform clean appearance, which consists, first, in subjecting the utensils to a chemical bath capable of removing grease and aluminum dust; second, subjecting the utensils to a clear water rinse to remove the chemical; third, subjecting the utensils to a deionized water bath to remove water blemishes and, finally, immediately drying the utensils after the same have been passed through the deionized water bath.

23,789

MIXED BORIDES

Harold R. Montgomery, Niagara Falls, Ontario, Canada, assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

No Drawing. Original No. 2,613,154, dated October 7, 1952, Serial No. 162,800, May 18, 1950. Application for reissue December 4, 1953, Serial No. 396,362

12 Claims. (Cl. 106—43)

1. Process of making solid articles of carbon boride and metal boride which comprises heating to a temperature of at least 1900° C. under mechanical pressure of at least 1000 pounds to the square inch a mixture of carbon boride and metal selected from the group consisting of titanium, vanadium, chromium, zirconium, columbium, molybdenum, hafnium, tantalum and tungsten and mixtures thereof, the amount of metal being sufficient to synthesize with the boron in the carbon boride at least 10% and being insufficient to synthesize more than 50% by volume of metal boride selected from the group consisting of TiB_2, VB_2, CrB_2, ZrB_2 CbB_2, Mo_2B_5, HfB_2, TaB_2 and W_2B_5 and mixtures thereof, said carbon boride having at least as much boron as is represented by the formula CB_4, the amount of boron in the mixture being sufficient and the amount of carbon in the mixture being limited so that over and above the carbon in CB_4 and in boride selected from the aforesaid group there will not be present after the synthesis uncombined carbon in excess of [2%] *3.2%* by weight of the CB_4 and such excess nor metal carbide in excess of 4% by weight of said article.

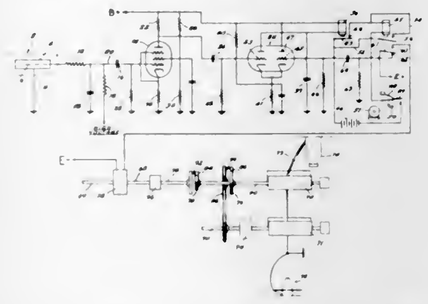
23,790

METHOD AND MEANS FOR CONTROL OF INDEPENDENTLY VARIABLE CHARACTERISTICS

Fred P. Strother, Shawmut, Ala., assignor to Deering Milliken Research Trust, New York, N. Y., a nonprofit trust of New York

Original No. 2,612,743, dated October 7, 1952, Serial No. 3,776, January 22, 1948. Application for reissue August 11, 1953, Serial No. 373,703

39 Claims. (Cl. 57—38.3)



35. The method of producing a novelty yarn which comprises creating a series of control signals separated by intervals of varying duration, controlling an element affecting the diameter of yarn during production in response to the control signals, preventing said element from affecting the diameter of yarn during intervals between control signals and continuously varying said element to vary the magnitude of change in diameter of the yarn effectible by the element upon occurrence of a control signal.

PLANT PATENTS

GRANTED FEBRUARY 23, 1954

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,258

RASPBERRY PLANT

Robert Romy, Geneva, Switzerland, assignor to W. Hauenstein Sohne, Rafz (Zurich), Switzerland, a firm of Switzerland

Application December 23, 1952, Serial No. 327,707

1 Claim. (Cl. 47—62)

A new and distinct variety of raspberry plant, substantially as herein shown and described, characterized particularly as to novelty by its everbearing habit, by its relatively erect and low-growing bush habit of growth, by its production of numerous shoots throughout the growing season, beginning with the first season, which mature and bear fruit the same season, and by its consistently heavy and regular fruit production.

1,259

ROSE PLANT

Walter E. Lammerts, La Canada, Calif., assignor, by mesne assignments, to Germain's, Inc., Van Nuys, Calif., a corporation of California

Application March 9, 1953, Serial No. 341,385

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized particularly as to novelty by its unusual vigor and upright habit of growth, by its large, leathery, glossy dark green leaves and the abundance thereof, by the distinctive heavy tinge of Garnet Brown color in the young shoots, by the Pansy Purple color tinge of the young foliage, by its good cutting stems and good bud form, by its abundant production of flowers borne on relatively long cutting stems, by the unusually clear Carmine Rose to Dawn Pink general color tonality of its flowers, and by the unique fading reaction of the flowers to lighter shades of Carmine Rose to Dawn Pink with the outer portions of the petals becoming heavily peppered with Carmine where sunlight strikes strongest.

PATENTS

GRANTED FEBRUARY 23, 1954

GENERAL AND MECHANICAL

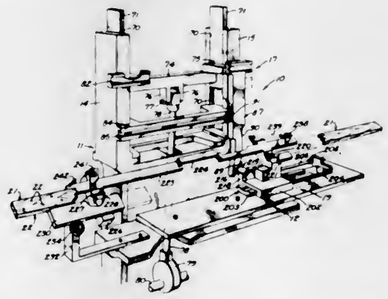
2,669,714

APPARATUS FOR PRODUCING CARPET RETAINING STRIPS

Howard L. Newcomb, Fred E. Werner, Richard J. Myers, and Henry Laetari, Los Angeles County, Calif., assignors to Roberts Manufacturing Co., Los Angeles, Calif., a corporation of California

Application December 24, 1951, Serial No. 263,096

26 Claims. (Cl. 1—1)



1. In an apparatus for inserting fasteners in a base, the combination of: a bed for receiving said base; a conveyor for moving said base along said bed; punch means for forming fastener receiving holes in said base; support means on said bed for engaging and supporting the underside of said base adjacent said holes during the driving of said fasteners therethrough, said support means being fixedly secured intermediate the ends of said bed and being movable on said bed about its point of securement thereto; and fastener driving means for inserting said fasteners in said holes and driving them through said base.

2,669,715

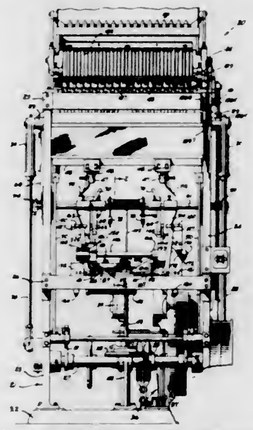
MACHINE FOR MAKING HEXAGONAL BOXES

Glenn E. Stilwell, Riverside, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware

Application July 27, 1949, Serial No. 107,089

20 Claims. (Cl. 1—10)

1. In an apparatus for use in the manufacture of a box having two heads each of which has two pairs of opposite parallel edge faces both edge faces of each pair being rectangularly related to both edge faces of the other pair, each head also having an edge face which is obliquely related to the other edge faces, the combination of: an anvil cradle for supporting said heads in proper parallel spaced relation for making said box; means for pivotally mounting said cradle for a rocking movement on a horizontal axis between a primary position in which said pairs of rectangularly related edge faces are inclined from horizontal while said oblique faces are disposed upwardly in a given horizontal plane, and a secondary position in which said pairs of rectangularly related edge faces are horizontally and vertically disposed, with the upper of said horizontally disposed edge faces lying in said given horizontal plane; and stop means between which said cradle is adapted to be rocked to readily move said cradle



from one of said positions to the other of said positions.

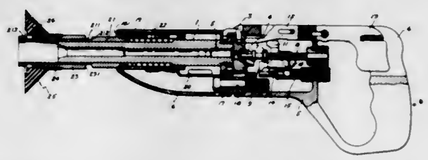
2,669,716

FIRE CONTROL FOR POWDER ACTUATED TOOLS

Robert T. Catlin, Stratford, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware

Application October 24, 1951, Serial No. 252,949

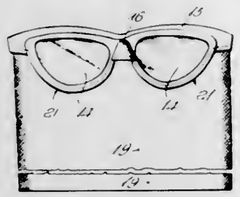
1 Claim. (Cl. 1—44.5)



In a powder actuated tool adapted to drive a fastener into relatively fixed work, a barrel assembly comprising a barrel housing and a barrel having a rearward breech end housed in said housing, extending forwardly through and projecting from said housing and terminating in a muzzle plane perpendicular to the axis of said barrel; a frame assembly joined to said barrel assembly and comprising a firing device, a sear for controlling said firing device and a lock for said sear; a unitary action assembly comprising a tubular member mounted for longitudinal movement on said barrel from a forward normal position in which its forward end is in front of said muzzle plane to a rearward fully displaced position in which its forward end is substantially at said muzzle plane; a guard assembly mounted for limited movement on said tubular member and comprising a work-engaging face substantially perpendicular to the axis of said barrel, said guard assembly comprising motion limiting means adapted to engage said frame when the

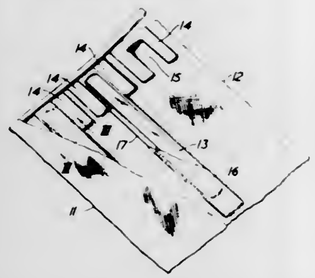
work-engaging face of the guard assembly is in the muzzle plane; said action assembly further comprising an action bar adapted to engage and displace said sear lock as said action assembly approaches its fully displaced position and the work-engaging face of the guard assembly is in the muzzle plane.

2,669,717
COMBINED SUNGLASSES AND FACE PROTECTOR
Everett Diggs, Winchester, Ind.
Application November 8, 1951, Serial No. 255,459
2 Claims. (Cl. 2—9)



1. In a device for the protection of the wearer from the effects of exposure to direct sunlight, a pair of sunglasses comprising a front frame member and a pair of bows, the lower peripheral portions of the frame member and the lower edges of the bows having a groove extending therealong, a downwardly depending protector member of fabric, the construction of the fabric being such as to allow relatively free circulation of air therethrough while at the same time affording protection from the direct rays of the sun, the upper edge of the fabric extending upwardly into said groove and being securely held therein.

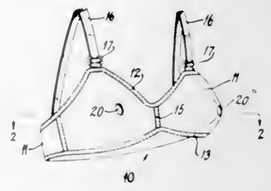
2,669,718
CORSET
Hans Lobbenberg, London, England, assignor of part interest to Trubenised (Great Britain) Limited, London, England, a British company
Application July 8, 1949, Serial No. 103,659
Claims priority, application Great Britain July 23, 1948
8 Claims. (Cl. 2—36)



1. A corset or like garment comprising a fabric body portion for encircling the body, a plurality of bones secured to the front of said body portion and extending downwardly from points spaced below the upper edge of said body portion, and a plurality of fabric stiffeners more flexible than said bones also secured to the front of said body portion, each of said stiffeners having an upper edge level with and conforming to the shape of the upper edge of said body portion and each of said stiffeners including a central part extending downwardly from said upper edge to a point immediately above the upper end of one of said bones and two side parts extending downwardly from said upper edge and in non-overlapping relationship alongside of and closely adjacent to the upper part of said one bone.

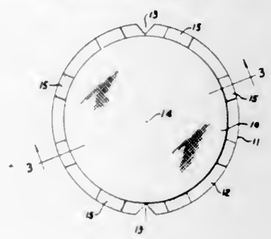
2,669,719
BRASSIÈRE
Gertrude Steiner, New York, N. Y.
Application July 14, 1949, Serial No. 104,640
2 Claims. (Cl. 2—42)

1. In a brassière comprising two integral front



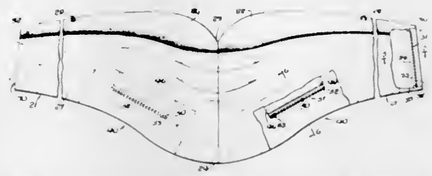
panel sections forming breast pockets and circumscribed by tapes forming a reinforcement for the edges of said panel sections, said panel sections being convex in shape and tapering laterally from the centers thereof and being joined by shoulder straps to the rear portion of said brassière; each of said panel sections having an aperture at the mid portion thereof, a circumferentially continuous circumscribing elastic cord reinforcing said apertured portion, and a hollow insert mounted in said aperture and and adapted to receive and house a breast extension, said insert having an annular groove at the base and adjacent the outer surface engageable by said elastic cord, said insert being removably retained in said aperture to permit interchangeability of said inserts.

2,669,720
PERSPIRATION SHIELD
Margaret Vandekerck, Detroit, Mich.
Application March 15, 1951, Serial No. 215,788
2 Claims. (Cl. 2—55)



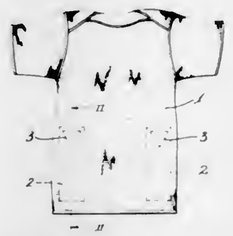
1. A perspiration shield of the kind described, said shield comprising a flat pad of absorbent sheet material, a backing for said pad, the backing being moisture-proof and being of a diameter in excess of that of the pad to include a marginal portion all around the periphery of the pad, the marginal portion being coated intermittently with an adhesive substance, said pad being bonded to said backing the adhesive substance and the pad being on the same side of the shield.

2,669,721
FUR STOLE CONVERTIBLE TO A JACKET
Max Koch, New York, N. Y.
Application February 4, 1952, Serial No. 269,762
8 Claims. (Cl. 2—88)



1. A garment comprising a portion to cover the back of the wearer, portions extending therefrom to cover the shoulders of the wearer, and portions extending from the shoulder portions adapted to hang down at the front of the wearer and having lower end portions, the back portion having a lower edge, pockets at the lower edge of said back portion adapted to receive the lower ends of the front portions and means to detachably fasten said ends within said pockets to form arm sleeves.

2,669,722
INFANT'S GARMENT
Nicholas G. Godshall, Ephrata, Pa., assignor to Walter W. Moyer Company, a partnership, Ephrata, Pa.
Application December 6, 1951, Serial No. 260,164
2 Claims. (Cl. 2—111)



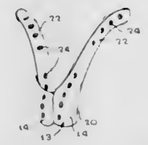
1. An infant's shirt-type garment having a plurality of woven fabric tapes sewed to the inside surface thereof, each of said tapes being in the form of a single rectangular piece with straight ends extending crosswise of the garment and having the top end portion stitched to the inside surface of said garment by stitching extending along a triangular path with the base of the triangle extending in close, spaced parallel relationship with the top straight end of the tape, the "right side" or finished side of said stitching being on the outside of the garment and the "wrong side" or unfinished side of said stitching being on the inside of the garment.

2,669,723
ADJUSTABLE COLLAR
Helen Thomson Thomas, Montclair, N. J.
Application October 29, 1952, Serial No. 317,405
12 Claims. (Cl. 2—133)



1. In a collar, a continuous band of generally arcuate planform extending through substantially 90 degrees and including, at opposite ends and thus substantially 90 degrees apart, integral tab projections extending symmetrically with respect to each other and transversely of said band and predominantly to one side of said band, the central portion of said planform being substantially on the bias, whereby the ends of said collar are substantially on the straight cut of the material, said arcuate planform being of an exaggerated length such that the ends may be tied or otherwise ornamentally combined.

2,669,724
FORM FOR NECKTIES
Harold M. Jarrett, Shinnston, W. Va.
Application August 24, 1951, Serial No. 243,423
1 Claim. (Cl. 2—153)



A device for preventing knot slippage in a necktie, comprising: a body formed with a pair of generally vertical, side by side body portions of approximately semi-circular cross section integrally joined along their inner side edges to define a depressed, tie-dimpling medial portion extending longitudinally and centrally of the body, said depressed portion cooperating with the body portions to form the body with a plurality of side by side undulations disposed transversely of the body, the body portions being formed at their lower ends with straight end edges disposed in longitudinal alignment so as to extend parallel to and immediately above the bottom edge of a tie knot, the outer side edges of the body diverging upwardly along gradually curving lines from the outer ends of said lower end edges; and upwardly diverging wings integral with the body at the upper end thereof, said wings being curved longitudinally in a direction away from each other and being partially twisted to engage one edge of each wing against those portions of the tie extending from opposite sides of the knot, said wings and body portions having their opposite faces roughened throughout their lengths to frictionally grip the material of the tie, the outer edges of the wings being formed as longitudinal extensions of the upwardly diverging outer edges of the body portions and the inner edges of the wings converging in the direction of the body to meet at the upper end of the depressed medial portion, said convergent inner edges of the wings defining a substantially V-shaped upper end edge on the body, for recessing of the upper end of the body wholly within the knot, below the substantially horizontally extending top edge of said knot.

2,669,725
PAPER ARTICLE OF HEADWEAR
Otto P. Haegele, Columbus, Ohio, assignor to White Castle System, Inc., Columbus, Ohio, a corporation of Delaware
Application September 1, 1950, Serial No. 182,735
2 Claims. (Cl. 2—197)

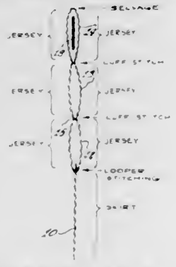
1. An article of head wear, comprising: a pair of originally separate rectangular paper sheets providing primary and secondary band-forming sections having adjacent and outer ends, means permanently uniting the adjacent ends of said sections in longitudinal alignment to produce an elongated composite strip for the formation of a

head band, said composite strip being folded upon itself along longitudinally spaced lines extending adjacent and parallel to oppositely disposed longitudinal edges of the composite strip, said folding providing inwardly disposed multiple-thickness web folds, the outer ends of the composite strip having the web folds thereof relatively telescoped to provide for the adjustment of a resultant band circumferentially in adapting the same to different head sizes, and a crown sheet



having outer marginal edges attached throughout the major part of their total length to inner plain and unfolded surfaces of the joined primary and secondary sections of the band at positions independent of and between the longitudinal web folds thereof, the portions of the marginal edges of the crown sheet which are not attached to the band being disposed in registration with the outer end region of the primary section of the band to adapt the crown sheet to the circumferential adjustments of said band.

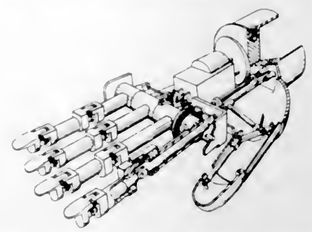
2,669,726
ADJUSTABLE HEIGHT WAIST AND LEG BAND FOR KNITTED OR WOVEN GARMENTS
Louis Meisel, White Plains, N. Y.
Application February 10, 1951, Serial No. 210,307
1 Claim. (Cl. 2—221)



An adjustable height band construction for garments comprising a plurality of double-ply channel bands vertically positioned one above the other and each being adapted to receive an elastic cord, and a main garment portion connected to the lowermost of the said bands, each of the said bands being made of an integrally knitted strip folded intermediate its edges to provide a closed finished top edge, the lowermost edges of each of the said bands being secured to the top finished edge of the said band beneath it by means of an easily removable draw thread, whereby when the said draw thread is removed a closed selvage is provided, at least one of the said bands receiving an elastic cord, and the outside of the said bands being knitted of the same yarn of which the garment is made and the inside of the said bands being knitted of a different yarn.

2,669,727
ARTIFICIAL HAND
Theodore Opuszenski, Stamford, Conn.
Application July 24, 1951, Serial No. 238,336
28 Claims. (Cl. 3—12.7)

1. An artificial digit comprising a tip segment, a middle segment consisting of two independent members, one of which is elongated, means limiting the relative motion of the middle segment members in the direction of elongation when bending the digit, means rotatably connecting each of the middle segment members to the tip segment so that the resultant axes of rotation



are parallel, a near-hand segment consisting of two independent members, one of which is elongated and means rotatably connecting each of the near-hand segment members to the corresponding member in the middle segment so that the resultant axes of rotation are parallel.

2,669,728
ARTIFICIAL LIMB SOCKET OR BOOT
Edmond S. Ritchie, Vancouver, British Columbia, Canada
Application March 16, 1953, Serial No. 342,319
6 Claims. (Cl. 3—17)

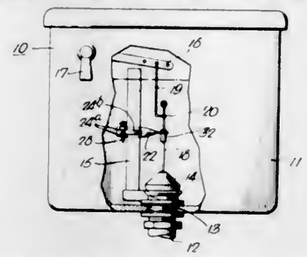


6. A socket for an artificial limb comprising a hollow body moulded to form a stump enclosing portion and a joint engaging portion, said joint engaging portion extending around both sides and across said joint from one side to the other and being set at an angle to the longitudinal axis of the stump enclosing portion, said hollow body having an open end through which the stump and part of the joint are adapted to be inserted, a spring leaf extending longitudinally of the stump enclosing portion, said spring leaf having a bowed portion adjacent its free end, the free end of said spring being directed to bear upon a side of the hollow body adjacent the open end and exert a localized pressure on the joint substantially in line with its horizontal axis.

2,669,729
GUIDE CLAMP FOR FLUSH VALVES
Otto Stader, Ardmore, Pa.
Application October 29, 1952, Serial No. 317,455
4 Claims. (Cl. 4—57)

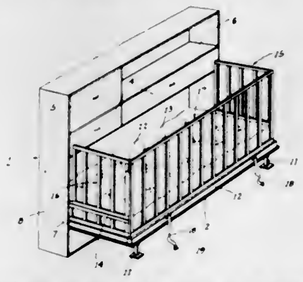
4. A guide clamp for the stems of flush valves and like elements comprising a flat elongated member twisted intermediate its ends to dispose its opposite end portions in different planes substantially at right angles to each other, oppositely displaced strap portions of substantially semi-circular configuration in one end portion of the member disposed in confronting complementary relation to each other and defining a substantially circular first opening to receive a supporting member for the clamp, said oppositely displaced strap portions terminating at their

outer ends in reversely formed smaller loop portions oppositely disposed with respect to each other in relatively superimposed coaxial relation and defining a second opening therethrough having its axis parallel to the axis of the first opening, a tapered member engaged in said second opening and operable the further it enters the



second opening to expand said loop portions and thereby contract the said strap portions of the member and reduce the size of the opening defined by the strap portions, and a sleeve mounted in the other end portion of the member, the said sleeve having its axis disposed in the plane of the axes of the first and second openings in the first mentioned end portion of the member.

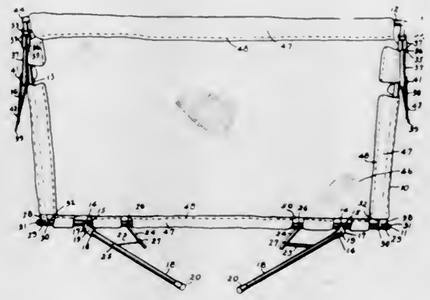
2,669,730
BABY CRIB
Harry O. Bystrom, Modesto, Calif.
Application May 15, 1950, Serial No. 162,106
1 Claim. (Cl. 5—2)



In a cabinet mounted baby crib, a panel adapted to be horizontally disposed to form a mattress-supporting base, an edge frame upstanding from the panel to locate the mattress thereon and relatively shallow vertically compared to the thickness of the mattress, end units for the crib comprising end frames upstanding from and rigid with said edge frame to a height not less than that of the mattress and end sections hinged on the end frames for folding over onto the mattress and for erection from a folding position, an outer side section detachably resting on and upstanding from the corresponding top edge of the edge frame and then substantially engaging the adjacent end edges of the end units when the end sections are erected, tongues depending from the side section to seat in sockets in said edge frame top edge, and means to releasably latch the side and end sections together.

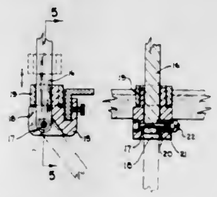
2,669,731
FOLDING BED OR BUNK
John W. Martin, Lima, Ohio
Application June 9, 1948, Serial No. 31,862
1 Claim. (Cl. 5—118)

A collapsible child's bed for vehicles comprising rigid front, side and rear rails forming a frame, a cover on said frame, legs pivotally mounted to the front rail and offset from the ends of said rail, each side rail having one end pivotally connected to the front rail, said rear rail being detachable from the side rails, legs pivotally connected to the rear end of said side rails and



shorter than the front legs, a socket on each end of said rear rail in locking engagement with the rear end of each of said side rails, a cross bar on a rear seat of a vehicle having transversely positioned recesses, said legs pivotally connected to said side rails having bottom ends engageable with the recesses in said cross bar.

2,669,732
GUARD FOR BEDS
Francis T. Moon, Ottawa, Ontario, Canada
Application May 2, 1951, Serial No. 224,089
3 Claims. (Cl. 5—331)

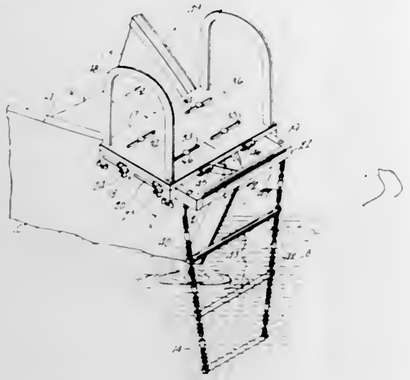


1. A guard for a bed comprising a spaced pair of demountable brackets each with a deep, bed rail-receiving groove on its upper side near the rear and a vertical slot in the front for the full height thereof; an upwardly rising, normally vertical guard including a pair of parallel posts hingedly connected one in each of said brackets of a width to fit between the sides of the bracket slot and a thickness less than sufficient to reach to the front thereof, said guard being swingable downwardly through more than 180 degrees; and a releasable post lock for each of said brackets freely slidable on the respective post and having a telescoping fit over the upper end of the bracket which is of reduced size.

2,669,733
DETACHABLE PLATFORM FOR SMALL BOATS
Harold J. Picker, Mechanicsburg, Ohio
Application September 14, 1951, Serial No. 246,551
4 Claims. (Cl. 9—1)

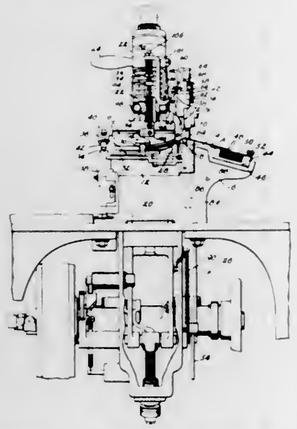
1. In combination with a deckless boat having a stem at its bow and gunwales extending along the upper edge thereof and converging to said stem, a platform assembly mounted on said gun-

wales adjacent said stem and constituting a separable deck assembly, said assembly comprising a plate extending across said gunwales and the space therebetween and having one edge disposed adjacent said stem, and clamps disposed along



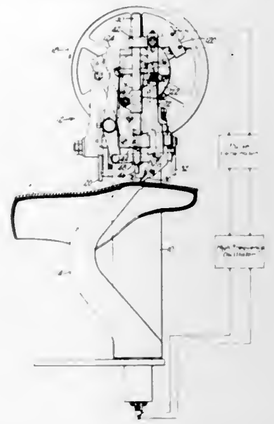
the under side of said plate and connected thereto for movement of adjustment relative to said plate to bring said clamps into engagement with said gunwales and clamp said plate to said gunwales.

2,669,734
MACHINE FOR ASSEMBLING SHOE BOTTOM PARTS
Ernest F. Stacey, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 26, 1951, Serial No. 228,381
20 Claims. (Cl. 12—18.5)



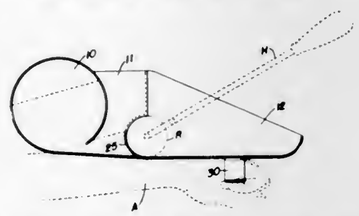
1. A machine for use in assembling shoe bottom parts having, in combination, a support for said parts, means movable toward and away from the support for positioning one of said parts lengthwise of the support, means movable toward and away from the support with said movable means for positioning one end portion of said part widthwise of the other part, and means movable toward the support with both of said first-named positioning means for positioning the opposite end portion of said one part widthwise of the other part.

2,669,735
APPARATUS FOR ATTACHING SOLES TO SHOES
Carl Juhola, Manchester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 14, 1950, Serial No. 156,015
10 Claims. (Cl. 12—33.2)



2. Apparatus for adhesively attaching soles to shoes wherein the parts are assembled with adhesive between their attaching surfaces comprising a shoe entering and supporting horn having an end portion adapted slidably to engage the inside margin of the bottom of a shoe having a sole superposed thereon, a pair of electrodes embodied in said end portion, means for connecting the electrodes to a source of high-frequency electric energy, and a pressure member cooperative with said horn for applying localized attaching pressure to the sole and shoe.

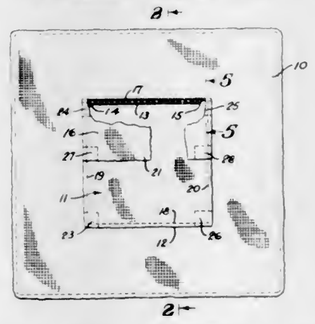
2,669,736
PAINT TRAY FOR ROLLER APPLICATORS
George H. Wabnitz, Rochester, N. Y.
Application May 26, 1950, Serial No. 164,429
6 Claims. (Cl. 15—121.2)



1. A paint tray for use with roller-type paint applicators comprising a receptacle having a smooth, flat, solid bottom wall, side walls, a front wall, and a rear end wall, and a transverse partition intermediate the front and end walls, said transverse partition dividing the receptacle into a trough portion and a reservoir, the inside surface of said bottom wall in the trough portion of said receptacle constituting a surface on which a roller-type applicator is rolled to pick up paint, the height of said partition being greater adjacent the side walls of the receptacle than in its central portion, said central portion constituting a baffle over the top of which paint may be spilled from said reservoir onto the roller applicator when said applicator is abutting against said

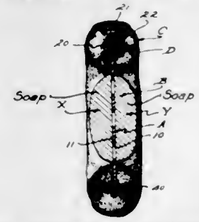
partition, said front wall being of approximately the same height as the central portion of said partition, said side walls decreasing in height from said partition to said front wall, and said partition wall having a concave arcuately curved front face in the portion of it which is adjacent the bottom of the receptacle to receive the periphery of a roller applicator when said applicator is abutting against said partition wall and a hand grip secured to the outside surface of the bottom wall of the receptacle beneath said bottom wall, whereby the tray may rest on the forearm of a painter and be held by the painter's hand.

2,669,737
WASHCLOTH
Arthur Edward Evans, New York, N. Y.
Application August 10, 1950, Serial No. 178,629
2 Claims. (Cl. 15—122)



1. A wash cloth, comprising a main body member of flexible and porous material, a second member of flexible and porous material for one side of said main body member, the length and width of said second member being substantially less than the corresponding dimensions of said main body member, said second member being slit along a line a short distance from one of the ends thereof and parallel thereto, the slit terminating adjacent the sides and substantially separating said second member into a pocket portion and a flap portion, the flap portion being turned back over the pocket portion with the sides of the two portions superposed, and means for securing the superposed sides of the two portions and the end of the pocket portion opposite the partially slit edge to said main body member, said means securing said slit edge of the flap portion to said main body member in juxtaposition with the corresponding edge of the pocket portion.

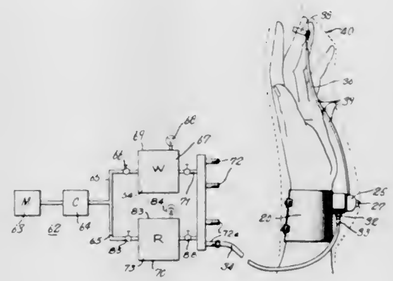
2,669,738
BRUSH WITH SOAP SUPPLY
Phillip S. Kusznir, Santa Monica, Calif.
Application November 17, 1950, Serial No. 196,119
13 Claims. (Cl. 15—122)



1. A cleaning implement including, a body in the form of a substantially flat disc-shaped

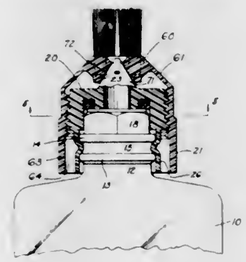
foraminous plate adapted to receive soap at opposite sides, an elongate brush in the form of a loop, and means attaching the brush to the periphery of the body with the brush surrounding the body at the periphery thereof.

2,669,739
SURFACE CLEANING TOOL
Ferdinand F. Winberg, Holden, Mass.
Application July 30, 1947, Serial No. 764,696
9 Claims. (Cl. 15—128)



1. In a hand manipulated cleaning tool the combination of a normally closed plunger-operated shut-off valve, means for securing said valve to the front of the wrist with the plunger facing outwards whereby continued forward motion of the wrist towards the surface to be cleaned actuates the plunger against said surface to open the valve, a flexible tubing connected to the valve outlet, and said tubing having a plurality of restricted openings formed therein for feeding liquid-cleanser, supplied to said tubing when said valve is open, to the hand.

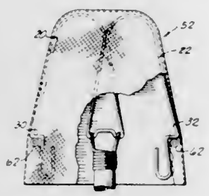
2,669,740
COMBINED CLOSURE CAP AND BRUSH DISPENSER
Charles E. Main, Akron, Ohio
Application April 16, 1949, Serial No. 88,006
3 Claims. (Cl. 15—138)



1. In a combined closure cap and brush dispenser attachment for a rigid container having an externally flanged discharge neck, and a multi-sided surface on the neck above said flanged part and proximate to the discharge opening of said neck, a closure member having an externally threaded upper body portion and a lower depending annular skirt adapted to encompass and be secured to a flanged container neck, said skirt defining an open bottomed chamber extending

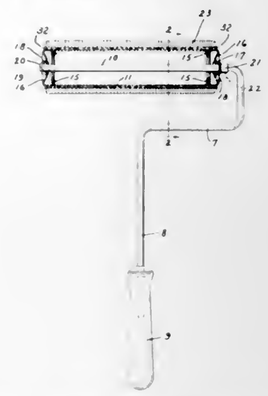
axially inwardly from the bottom of the closure member and terminating in an annular end wall having an axially disposed feed opening, said chamber being provided internally with a multi-sided side wall surface adjoining the end wall of said closure member adapted for coacting in an interlocking manner with the multi-sided surface on the container neck to restrain the closure member against rotation thereon when the closure member is normally positioned on said neck and secured thereto, an axial hollow conical projection upstanding from the top of said end wall communicating with the feed opening thereof and formed with a laterally extending dispensing aperture in its side wall, a cap having an axial internally threaded end recess adapted to detachably and adjustably engage the threaded upper body portion of said closure member for manual rotation thereon, and a brush comprising tufts of bristles carried by the end wall of said cap and projecting outwardly therefrom, said cap being provided with an axially disposed restricted outlet in its end wall, said outlet being constricted forwardly beyond its mid-portion and towards which constricted part the diameter of the outlet tapers in both directions axially to resemble in longitudinal section a double coned opening, the conical wall surface of the inner end of said outlet being shaped to seat against the conical outer surface of said projection of the closure member to close and seal the restricted outlet of the cap when the cap is in a retracted closed position, and to provide for fluid control action between said conical surfaces to regulate the feeding of the container contents from said side aperture of said projection to the brush when the cap is turned into an extended open position.

2,669,741
MOP AND FRAME THEREFOR
Howard W. Jelliffe, Los Angeles, Calif.
Application July 31, 1948, Serial No. 41,733
3 Claims. (Cl. 15—229)



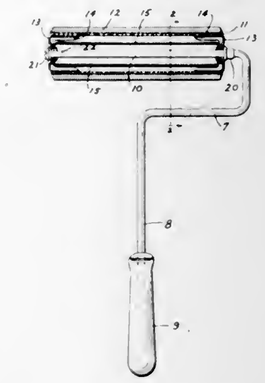
1. A mop comprising: a substantially flat frame having the general outline of a mop head; pivot means formed generally centrally of said frame and having a pivotal axis extending laterally substantially in the plane of said frame; a rearwardly extending handle attachment pivotally mounted on said pivot means; said frame narrowing abruptly at points adjacent to said pivotal axis to provide rearwardly facing abutments; a mop mit comprising an envelope of fibrous material open along its rear edge and enclosing the entire frame and said handle attachment; and inter-engaging means on said mit to contact the abutments on said frame to retain them in assembled relation; that portion of the mit to the rear of said pivotal axis being wider than the corresponding portion of the frame; whereby movement of said handle attachment out of the plane of said frame will be accommodated by the slack in the material of said mit.

2,669,742
PAINT ROLLER
Standly T. Coughlan, Dearborn, Mich., assignor to King Paint Roller Inc., Detroit, Mich., a corporation of Michigan
Application May 25, 1950, Serial No. 164,133
2 Claims. (Cl. 15—230)



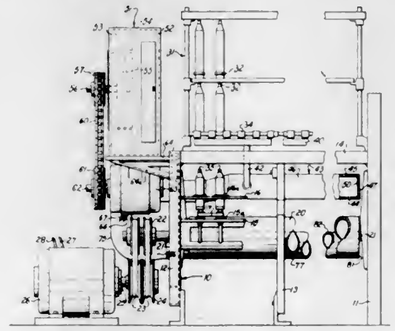
1. In a rotary paint applicator, the combination of a handle provided with an axle portion, a cylindrical longitudinally split tube provided at each end with a plurality of apertured circumfertially spaced radially projecting ears, a pair of complementary cylindrical cup-shaped closures one for each end of the tube journaled upon the axle adjacent to an end of the tube, each end closure provided with a plurality of radially inwardly offset axially projecting tongues circumferentially spaced to correspond with the ears of the tube and received within the apertures of said ears securing the tube to the end closures to rotate therewith and limiting the expansion and contraction of the tube, a cylindrical tubular member having a paint carrying outer surface, said member being sleeved upon the tube and snugly embracing the tube and the end closures.

2,669,743
PAINT ROLLER
Standly T. Coughlan, Dearborn, Mich., assignor to King Paint Roller Inc., Detroit, Mich., a corporation of Michigan
Application May 25, 1950, Serial No. 164,134
7 Claims. (Cl. 15—230)



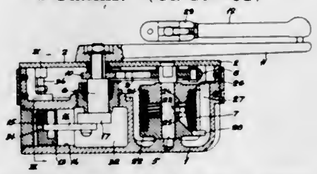
1. In a device of the character described in combination, a rod bent and rebent to form a handle portion and an axle portion, a roller mounted for rotation on said axle portion, said roller consisting of a tubular member covered with a paint applicator surface, said tubular member being internally supported at either end by means of a spring closure member at the center of which is positioned a bearing member, and a pair of spanner bars secured to said end closure members and spaced radially inwardly from said tubular element and adapted to hold said end closure members in spaced relation.

2,669,744
PNEUMATIC LINT COLLECTION APPARATUS FOR TEXTILE MACHINES
Dennis B. Parrish, Clover, S. C.
Application November 19, 1951, Serial No. 257,075
2 Claims. (Cl. 15—301)



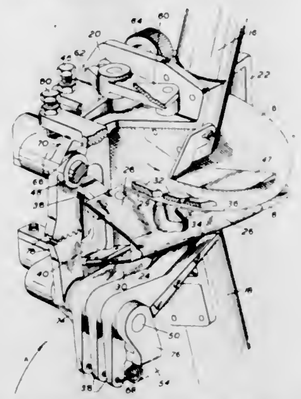
1. In a textile machine having an air cleaner comprising suction tubes disposed at the upper portion of said machine and connected to an open-end housing mounted on one end of said machine and having a suction fan and a filter therein, means for utilizing the exhaust air from said suction fan comprising means for closing the open end of said housing, a branch pipe communicatively connected to said housing and extending downwardly therefrom to the lower portion of said machine, a lint agitating exhaust pipe connected at one end to said branch pipe and extending longitudinally of the machine at the lower portion thereof and being closed at its other end, said lint agitating exhaust pipe having a plurality of longitudinally spaced openings in the upper portion thereof to permit said exhaust air to be emitted therefrom in a plurality of upwardly directed blasts for additionally cleaning the machine.

2,669,745
DOOR-CLOSING DEVICE
Johan Olof Rydberg, Eskilstuna, Sweden, assignor to Eskilstuna Jernmanufaktur Aktiebolag, Eskilstuna, Sweden, a company of Sweden
Application April 22, 1950, Serial No. 157,571
4 Claims. (Cl. 16—51)



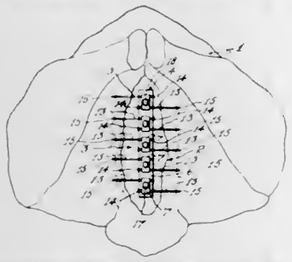
1. A door-closing and checking device of the character described, comprising a housing, a first shaft rotatably journalled in said housing, means connected with said shaft for transmitting rotary motion from said shaft to the door and from the door to said shaft, a check device operatively connected to said first shaft, a second shaft parallel to said first shaft and rotatably journalled in said housing, a link and lever mechanism connecting said shafts to one another and adapted to transmit rotary motion from either of said shafts to the other of said shafts, and a helical spring positioned around said second shaft coaxial therewith and connected at one point to said housing and at another point to said second shaft whereby said spring is put under tension when said second shaft is rotated by said link and lever mechanism in a direction corresponding to the opening movement of the door from its closed position, said link and lever mechanism comprising a first lever secured to said first shaft in such manner that in the position of said first shaft that corresponds to the closed position of the door said first lever forms an angle to the line of connection between the axes of said first and second shafts and upon rotation of said first shaft in a direction corresponding to the opening movement of the door the outer end of said first lever is moved away from said second shaft, a second lever secured to said second shaft in such manner that in the position of said second shaft that corresponds to the closed position of the door said second lever is directed away from said first shaft and upon rotation of said second shaft in a direction corresponding to the opening movement of the door said second lever is moved in a direction towards said first shaft, and a link member having an unvarying length hingedly attached at its ends to the ends of said first and second levers.

2,669,746
APPARATUS FOR CUTTING FISH
Rudolf Baader, Lubeck, Germany
Application August 19, 1950, Serial No. 180,377
6 Claims. (Cl. 17—4)



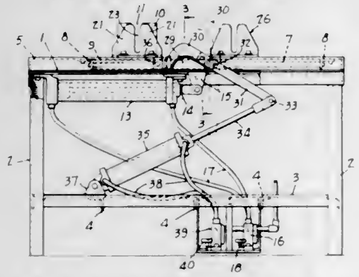
3. In an apparatus for cutting fish, in combination, two rotary disk knives extending at an acute angle to each other, a central V-shaped guide for the fish, said guide extending between said knives and the surfaces of said guide extending substantially in the planes of said knives, support means, said guide being operatively associated with said support means, and fish-engaging fingers resiliently mounted on said support means on opposite sides of the fish being cut and pressing the fish against the surfaces of the V-shaped guide.

2,669,747
DEVICE FOR CLOSING INCISIONS IN FOWLS OR THE LIKE
Angelo J. Detaranto, Madison, N. J.
Application October 9, 1951, Serial No. 250,467
6 Claims. (Cl. 17—11)



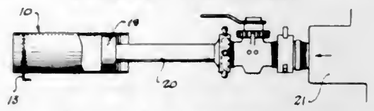
1. A device for closing the incision in the carcass of a fowl or the like comprising a bar to overlie the incision, at least one clamping assembly mounted thereon, said assembly including two hook members which project beyond opposite longitudinal edges of the bar in opposed relation to each other for insertion into the flesh of a carcass along the adjacent edges of an incision therein, said hook members being independently adjustable relatively to the bar and to each other, and means for clamping said hook members in adjusted positions.

2,669,748
FOWL TENDON PULLING MACHINE
Frank H. Ine, Milwaukee, Wis.
Application October 5, 1951, Serial No. 249,829
3 Claims. (Cl. 17—11.3)



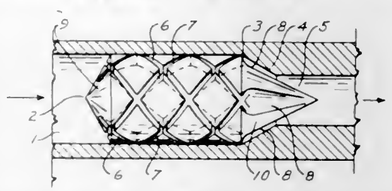
1. In a fowl preparation machine, a support, a puller member secured to said support and movable reciprocally from a first position to a second position, means on said puller member holding the legs of a fowl in engagement with said puller member, first upright breaker means secured to said support adjacent said first position and having a slot therebetween for alignment with the means on the puller member when the latter is at said first position to receive the legs of a fowl in said slot and with the legs disposed in engagement with the means on the puller member, a second breaker means secured to the support adjacent said second position and having a slot therebetween for alignment with the means on the puller member when the latter is at said second position to receive the legs of a fowl in said slot and with the legs disposed in engagement with the means on the puller member, and double acting single means to drive the puller member reciprocally of the support in either direction and laterally away from either said first or second breaker means to break the legs of a fowl and pull out the tendons as the puller member moves away from a respective breaker means.

2,669,749
SAUSAGE STUFFING AND MOLDING DEVICE
Roger M. Hovland, Colfax, Wis., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois
Application January 11, 1951, Serial No. 205,482
2 Claims. (Cl. 17—35)



1. Means for molding sausages comprising, in combination with a sausage stuffer having an elongated stuffing horn with an abutment of substantial breadth on one end thereof, a tubular mold adapted to fit over and be supported by said abutment, gate means removably positioned in said mold and adapted to close off each end thereof, at least one of said gate means being positioned a sufficient distance laterally within said mold as to leave, when in closed position, a sufficient portion of said mold still in contact with said abutment to provide support for said mold.

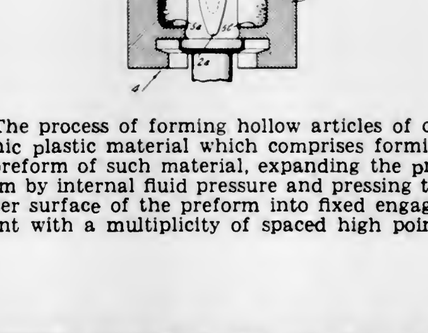
2,669,750
INJECTION MOLDING DEVICE
Rollin D. Keeney, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo.
Application November 21, 1950, Serial No. 196,784
7 Claims. (Cl. 18—30)



1. In an apparatus wherein a plastic material in a flowable condition is forced through a chamber into a die, means for malaxating the plastic material forced through said chamber comprising a mixing plug fixedly positioned within a portion of said chamber, said mixing plug having a length not substantially greater than three times its width and a body portion with a cross-sectional shape substantially identical with the cross-sectional shape of the portion of said chamber within which it is fitted so that the peripheral surface of said body portion is in non-slipping contact with the wall of said chamber, said peripheral surface having incised therein an even number of continuous helical grooves through which said plastic material is forced, said grooves having a ratio of depth to width of from 1:1 to 5:1, one half of said grooves having a right-hand spiral and the other half of said grooves having a left-hand spiral, all of said grooves having substantially the same length, width, depth and pitch and being at least 8 in number.

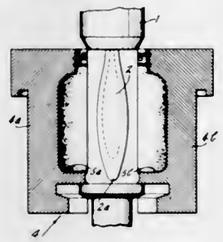
2,669,751
PROCESS FOR PRODUCTION OF CELLULAR THERMOPLASTIC PRODUCTS
John Lloyd McCurdy, Midland, and Chancey Edward De Long, Freeland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application June 29, 1950, Serial No. 171,148
7 Claims. (Cl. 18—47.5)

1. A method of making a cellular thermoplastic article which comprises feeding a heat-plastified thermoplastic polymer at a temperature between 120° and 220° C. and a normally gaseous agent capable of being dissolved by the polymer into admixture with each other under pressure in amounts corresponding to from 0.05 to 0.25 part by weight of the normally gaseous agent per part of the polymer, to a mixing and cooling zone wherein the mixture is caused to flow through said zone solely by pressure of the feed thereto against frictional resistance to flow upon the mass against walls defining said zone, continuously subjecting the mixture to a non-forwarding agitation transverse to the flow thereof through said zone at each of a plurality of closely spaced regions throughout a major portion of the length



of the zone in a manner preventing appreciable accumulation of the mixture as a static layer on stationary walls defining said zone, the transverse agitation being sufficient to prevent channeling and to blend the mixture as a substantially uniform composition, while cooling the mixture to a temperature at which it remains flowable and below the boiling point of the normally gaseous agent at the pressure thus applied to the mixture, to form a homogeneous solution having a substantially uniform temperature of from 60° to 130° C. throughout its mass at the point of discharge from said zone and continuously extruding the solution into a zone of sufficiently lower pressure to cause expansion of the extruded material with resultant formation of a cellular plastic body.

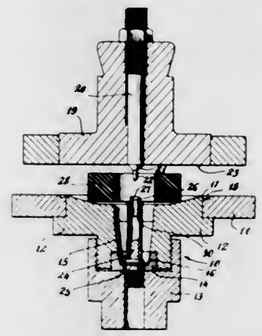
2,669,752
MOLDING PROCESS
William S. Pratt, Pleasant Valley, Conn., assignor to Plax Corporation, West Hartford, Conn., a corporation of Delaware
Application August 2, 1949, Serial No. 108,165
1 Claim. (Cl. 18—55)



The process of forming hollow articles of organic plastic material which comprises forming a preform of such material, expanding the preform by internal fluid pressure and pressing the outer surface of the preform into fixed engagement with a multiplicity of spaced high points

distributed substantially uniformly over the molding surface of a mold to form the hollow article, capturing air between the preform and the mold in a communicating net-work of passages distributed among the high points in the mold, and exerting uniform pressure with said captured air against said article about the high points of the mold fixedly engaged by the article, whereby uniform fluid pressure is evenly applied against the article while the article maintains the fixed engaging and shaping contact with the spaced points of the molding surface, and thereafter removing the shaped article from the mold.

2,669,753
METHOD OF PRODUCING RUBBER COVERED VALVE STEM WITH COMPENSATING BUSHING
Frank R. Hormann, Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application March 2, 1950, Serial No. 147,220
4 Claims. (Cl. 18—59)

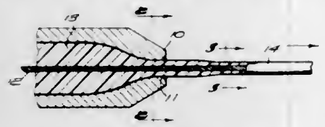


1. The method of automatically compensating for variations in the length of a bored member in moulding a plastic covering onto one end thereof in a mold press having a cover plate provided with a sealing pin for the bore in the member fixedly carried by said cover plate, said method comprising slidably mounting a snug-fitting bushing into the bore of said member at the end thereof which is to be covered having a portion of said bushing protruding beyond said end, placing said member and plastic material in said mould, supporting said member against axial movement in the mould and engaging said protruding end of the bushing by the sealing pin and sliding said bushing into the bore of the member by the sealing pin as the cover plate moves to close the mould.

2,669,754
MANUFACTURE OF COMPOSITE WIRE AND ROPE
Joseph H. Chadbourne, Danielson, Conn., assignor to The Danielson Manufacturing Company, a corporation of Connecticut
Application November 26, 1947, Serial No. 788,252
8 Claims. (Cl. 18—59)

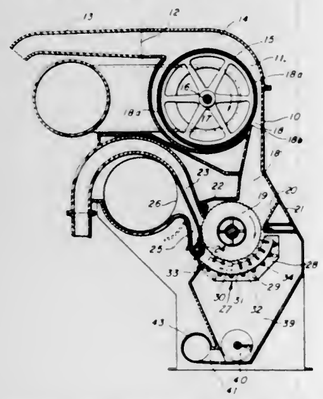
1. In the manufacture of composite wire and cable, the steps of drawing a core at high speed through an extruding die having a flow chamber with a narrowing restricted orifice and extruding a thermoplastic material of the amido polymer type heated to the plastic state around the core and in contact with the core as it passes from the die to form a surfacing therefor, the speed

of the core through the die being greater than the speed of flow of the thermoplastic material through the die to stretch the material by the



rapidly moving core while the material is still in a plastic state, whereby a lock bond between the surfacing and the core results.

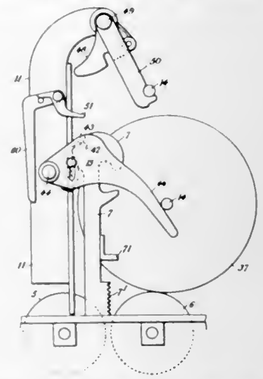
2,669,755
LINT CLEANER
Dewey D. Day, Dallas, Tex., assignor to The Murray Company of Texas, Inc., Dallas, Tex., a corporation of Delaware
Application October 16, 1950, Serial No. 190,402
4 Claims. (Cl. 19—72)



1. A cotton lint cleaner including, a casing having a cotton inlet at its top disposed to receive lint cotton from the saws of a cotton gin, a duct extending down from the inlet for conducting cotton into and partially through said casing and extending across the casing from end to end thereof, whereby the cotton is disbursed and spread in a broad stream free from batting, a screen in the casing exposed in said duct intermediate the ends thereof and having an air outlet, a saw cylinder disposed across the lower end of said duct, transversely spaced grid bars contiguous to the underside of the saw cylinder extending longitudinally thereof, a hopper below the grid bars having spaced outlets, an air suction duct connected with the hopper outlets, and a conveyor in the hopper adjacent the outlets thereof.

2,669,756
DOFFING MECHANISM FOR LAP-FORMING MACHINES
Zoltan Szaloki and William James Senior, Oldham, and Arthur Knowles, West Gorton, Manchester, England, assignors to T. M. M. (Research) Limited, Helmshore, Rossendale, England
Application August 24, 1951, Serial No. 243,514
Claims priority, application Great Britain August 1, 1950
8 Claims. (Cl. 242—55.1)

2. In a lap forming machine, a lap roll doffing mechanism comprising, in combination, means for feeding a web, a pair of rack-heads engageable with the journals of a lap roll, mechanism for driving the rack-heads upward away from their lap rolling position when a roll of lap is complete and for then returning the rack-heads to their lap rolling position, automatic means for interrupting the web feed after a predetermined period of lap rolling operation, and, after a short delay, for starting said driving mechanism to initiate the upward movement of the rack-heads, said rack-heads including members engageable beneath the lap roll journals to take over support of the lap roll and carry it upward away from lap rolling position with the rack-heads, normally inactive ejector members, operating means responsive to upward movement of the rack-heads to actuate the ejector members,



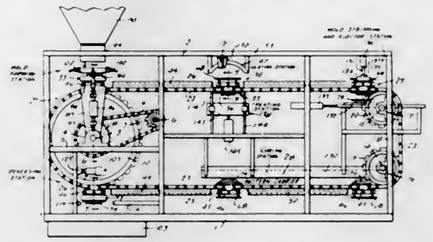
causing them to dislodge the lap roll from the lap roll supporting members of the rack-heads, a loading support for a fresh lap roll located above the ejecting position of the lap roll supporting members of the rack-heads, means responsive to further upward movement of the rack-heads for shifting said loading support into position to transfer the fresh lap roll automatically onto the lap roll supporting members of the rack-heads, a member movable to wrap the leading end of the lap around the descending fresh lap roll as the rack-heads approach lap rolling position near the end of their downward movement, and means responsive to such downward rack-head movement for actuating said wrapping member.

2,669,757
WALL CONSTRUCTION
Frederick R. Lenk, Jr., Millington, N. J., assignor to Chicopee Manufacturing Corporation, a corporation of Massachusetts
Application March 31, 1949, Serial No. 84,522
5 Claims. (Cl. 20—4)



2. In a wall, the combination of a support, a non-woven fabric secured to the support and including a first layer of polyposed fibers adhesively bonded to each other along separated lines, a second layer of polyposed fibers adhesively bonded to each other and to the first layer along separated lines coinciding with the separated lines along which the fibers of the first layer are bonded to each other, and a layer of wallpaper adhesively bonded to the second layer; the adhesive bonds between the fibers of the first layer being markedly stronger than the adhesive bonds between the fibers of the second layer and markedly stronger than the adhesive bond between the layers, whereby the fibers of the said second layer being markedly less firmly bonded together comprise a rupturable layer permitting the wallpaper to be stripped from the wall without damaging the first layer underneath.

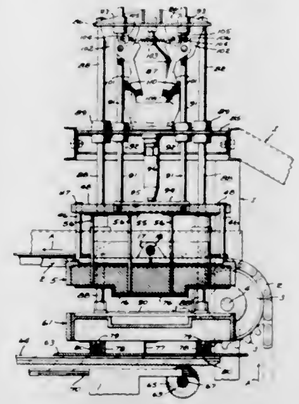
2,669,758
MOLD FORMING MACHINE
Emery I. Valyi, Bronx, N. Y.
Application May 14, 1951, Serial No. 226,229
6 Claims. (Cl. 22—20)



1. A machine of the character described comprising a plurality of stations including a mold forming station, a mold curing station and a mold stripping station, an endless conveyor having upper and lower flights, at least one of said stations being located along each flight of said conveyor, a plurality of spaced pattern carriers secured to said conveyor, mold patterns mounted upon said pattern carriers, means by which said conveyor is intermittently advanced a predetermined distance, said conveyor being operative successively to present successive pattern carriers successively to said forming station, said curing station and said stripping station, said pattern carriers being inverted as they advance along said conveyor from one flight to the other flight of said conveyor, means at said forming station operative to form a partially cured mold shell over the face of said patterns, means at said curing station operative to complete the curing of said mold shells, means at said stripping station operative to strip said mold shells from said patterns, and a separate reversing mechanism along each flight of said conveyor operative to return said pattern carriers to upright position.

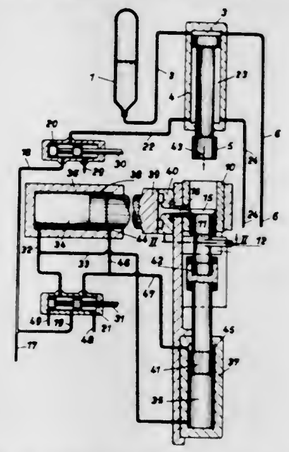
2,669,759
MOLD EJECTING MECHANISM FOR MOLD-FORMING MACHINES
Emery I. Valyi, Bronx, N. Y.
Application June 20, 1951, Serial No. 232,505
7 Claims. (Cl. 22—48)

7. A mechanism for stripping mold shells from patterns comprising a pattern-carrier having a pattern mounted thereon, an ejector plate slidably supported by said pattern-carrier in spaced relation thereto, a plurality of stripping pins secured to said ejector plate and extending into apertures in said pattern, a vertically movable mold receiving means below said pattern holder, means operative to move said mold-receiving means upwardly substantially into contact with said mold shell on said pattern, and means operative to move said mold-receiving means and said ejector plate downwardly in unison in a direction to project said stripping pins out through said apertures beyond the face of said pattern for stripping a mold shell from said



pattern onto said mold-receiving means while maintaining said mold receiving means in supporting relationship to said mold shell.

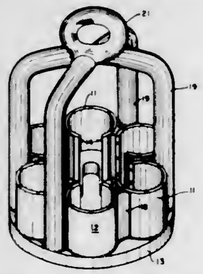
2,669,760
DIE OR PRESS CASTING MACHINE
Wilibald Venus, Munich, Germany, assignor to Hahn & Kolb, Stuttgart-N, Germany
Application April 25, 1951, Serial No. 222,859
Claims priority, application Germany May 4, 1950
2 Claims. (Cl. 22—68)



1. A die or press casting machine, comprising an unheated open-ended cylindrical press chamber, at least one mold laterally connected thereto, a press piston and cylinder, a counter-piston reciprocating within the press chamber, said pistons being adapted to extend from opposite ends into said press chamber, means including a supporting piston connected to the counter-piston to axially adjust the counter-piston in two opposite end positions, in the lower position of which the counter-piston will be clear of the press chamber and permit the press piston to follow it below the press chamber and thereby to act as a casting material residue ejector, the upper end position being such as to form the bottom of the press chamber, the upper end of the counter-piston having at least one lateral recess therein, and means connected to the press piston cylinder for

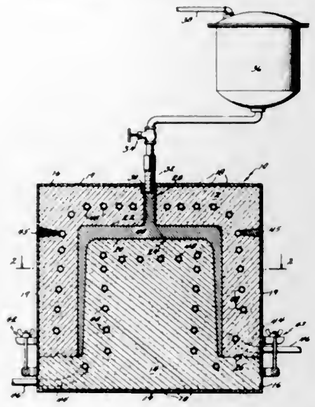
rotating the counter-piston in its upper end position to bring the recess into alignment with the respective mold in which position of the recess the press piston may effect an injection of casting material from the press chamber into said mold, said last-mentioned means including an auxiliary piston engaged in dependence of the working stroke of the press piston to effect an axial rotation of the counter-piston by engaging an outward extending arm of said counter-piston.

2,669,761
CABLE CONNECTOR
Russell E. Hower and Al Kuntz, Dubois, Wyo., assignors of one-third to J. N. Fisher, Dubois, Wyo.
Application December 29, 1950, Serial No. 203,409
1 Claim. (Cl. 24—123)



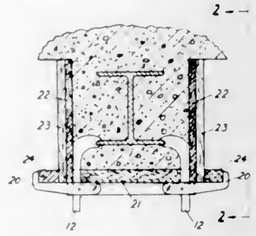
In a fastening device for connecting a plurality of towing cables to a single power unit, each of said towing cables being provided with an enlarged head portion, a disc-like base portion provided with a centrally located aperture of substantially greater diameter than the enlarged head portion of a towing cable, said base portion being further provided with a plurality of radially disposed slots extending outwardly from said centrally located aperture and communicating therewith, the width of each of said slots being such that a towing cable may extend therethrough, a plurality of socket-forming members fixedly secured to one face of said base portion, the number of socket-forming members corresponding to the number of radially disposed slots and said socket-forming members being so located that a socket-forming member surrounds the outer extremity of each radially disposed slot, each socket-forming member comprising an arcuate wall portion having a longitudinally disposed opening therein located in alignment with the associated radial slot and of slightly greater width than the width of said slot, said wall portion opening being of a width less than the diameter of the socket-forming member, the interior configuration of each socket-forming member being complementary to that of the enlarged head portion of a towing cable whereby said head portion may be snugly received within a socket-forming member with the towing cable extending through the associated radial slot, and a pair of diametrically opposed U-shaped bail members fixedly connected to said base portion and extending outwardly therefrom on the same side thereof as said socket-forming members, the legs of said bail members being fixedly secured to the adjacent socket-forming members to provide a unitary structure, the base portions of said bail members overlapping centrally and having an eye portion for connection to a power unit whereby towing forces may be transmitted to said fastening device and towing cables.

2,669,762
METHOD FOR MAKING WARE BY CASTING
Andrew R. Blackburn and Richard E. Steele, Columbus, Ohio
Application February 5, 1953, Serial No. 335,292
1 Claim. (Cl. 25—29)



A method for casting green ceramic ware in a porous mold and for separating the cast ware completely from the mold after the ware has become self-sustaining and, independently of the shrinkage of the ware, to promptly free the mold for reuse, which comprises causing a slip to fill a ware-forming cavity defined by a plurality of permeable mold members, maintaining said slip in said cavity in contact with said mold members for a time sufficient to render said slip self-sustaining and form an easily deformable green piece of ware, thereafter before said piece shrinks appreciably (*a*) passing a fluid under pressure through a first of said mold parts to release said piece therefrom and (*b*) separating said first mold part from said piece to leave said piece supported only by the remaining mold parts and (*c*) thereafter passing a fluid under pressure through said remaining mold parts to separate the unsupported piece completely therefrom and free the mold for reuse in the formation of additional pieces of ware.

2,669,763
REMOVABLE HANGER FOR FLOOR BEAM FORMS
Oscar Unneland, Brooklyn, N. Y.
Application November 1, 1950, Serial No. 193,438
2 Claims. (Cl. 25—131.5)

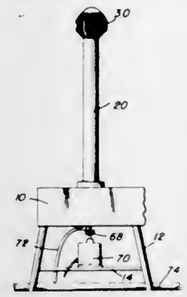


2. A removable hanger for floor beam forms of the character described comprising a pair of identical but opposingly mounted rotatable hanger members, said members being punched from flat sheets and having a vertical body ending in a downwardly extending foot, said body having a horizontally projecting arm, the arms of the pair of opposing hanger members extending toward each other, said arms having each two holes, one hole near the centre of said body and the other hole near the end of said arm, the upper ends of said pair of hanger members being shaped like heads with a notched out mouth and with the heads and necks being formed on a radius drawn through said hole at the extreme ends of said arms; a pair of identical angle members placed one on each side of said hanger members along the axis of said arms, said angle members having holes corresponding to said holes in said arms of said hanger members, and two pairs of pins engaging in said holes whereby said hanger members may be locked in place.

2,669,764
MANUFACTURE OF MICACEOUS INSULATING MATERIALS
James S. Kilpatrick, Cirencester, England, assignor to The Mycalex Company Limited, Cirencester, England, a British company
No Drawing. Application May 1, 1950, Serial No. 159,379
5 Claims. (Cl. 25—156)

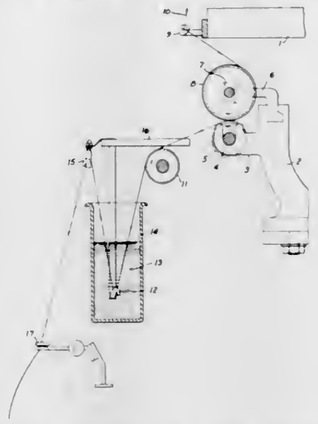
1. The method of manufacturing a micaceous insulating material characterized by its injection moulding properties comprising in mixing a white glass frit with barium carbonate and phlogopite mica, in forming the mixture into billets or blocks, in subjecting the billets or blocks to a rise in temperature in a furnace and in moulding and cooling the heat treated material said frit, barium carbonate and mica being each employed in the proportion of substantially one-third by weight.

2,669,765
INTERNAL CIRCULAR CLIPPING AND INSPECTION DEVICE FOR HOSIERY
Claud C. Auton, Maiden, N. C., assignor, by mesne assignments, to Textile Trimming and Boarding Machine Company, Reading, Pa., a corporation of Pennsylvania
Application April 18, 1952, Serial No. 283,017
6 Claims. (Cl. 26—11)



1. An apparatus for inspecting and shearing hosiery comprising a supporting base, an elongated mandrel for receiving a stocking thereon, means for mounting said mandrel upon said base for complete rotation about the axis of the mandrel, said mandrel having a head for expanding hosiery placed thereover for inspection of the same, said head being hollow and having slots on its periphery for receiving loose ends of hosiery threads as the hosiery is placed over the head, a cutter in said head for shearing the thread ends passing through said slots, means for operating said cutter.

2,669,766
CREPE FABRIC
Robert L. Beard, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 5, 1947, Serial No. 752,853
4 Claims. (Cl. 28—74)



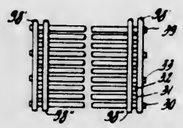
1. A process for producing an all acetate crepe fabric, which new fabric exhibits improvement in that the finished fabric has a filling grab strength of the order of 28 lbs., a filling grab stretch of the order of 45%, and retains its pebble after repeated washings, which include the steps of first obtaining an acetate filling yarn which is capable of taking a high twist without substantial injury thereto, said yarn being produced by extruding a solution of cellulose acetate in a volatile solvent through at least 38 orifices of a spinneret at a temperature of 80–100° C. to form said filling yarn, said yarn being cured and wound up at a draft of .4 to .7, then crepe twisting this uncoated filling yarn produced as aforementioned to the order of at least 75 turns per inch and at a temperature between 25–30° C., and in carrying out said twisting applying an aqueous setting bath containing at least one of the components from the group consisting of gelatin and sulphated vegetable oil to set the twist, said twist being applied in a manner whereby the twist runs back into said bath, controlling the tension on the yarn while in contact with the bath, so that the tension is within the range of 0.05 to 0.1 gram per denier, and thereafter weaving the yarn as a filling yarn into an acetate warp, embossing the resultant fabric and subjecting the embossed fabric to a boil off whereby the new all acetate crepe fabric having the improved characteristics referred to above is obtained.

2,669,767
SELENIUM RECTIFIER
Benjamin P. Hecht, Dorchester, and Fred Koury, Somerville, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
No Drawing. Application December 30, 1947, Serial No. 794,794
12 Claims. (Cl. 29—25.3)

1. The method of preparing a selenium rectifier element comprising coating a metal plate with a vitreous layer of selenium, subjecting the coated plate to a temperature sufficient to crystallize the selenium layer, and then exposing the crys-

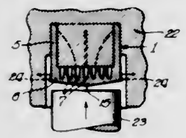
tallized layer to nascent ozone approximately equivalent to 3 milligrams per cubic foot for 1½ minutes.

2,669,768
PRODUCTION OF MULTILINEAR SCREENS
Alfred N. Goldsmith, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application March 7, 1950, Serial No. 148,245
2 Claims. (Cl. 29—148)



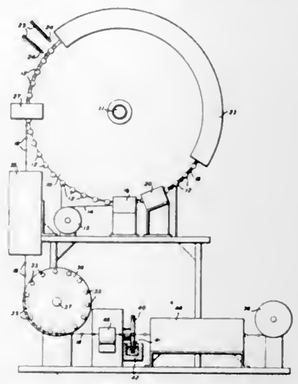
1. In a method of manufacturing a target screen having adjacent lines of materials which fluoresce in different colors, the steps which include coating different groups of thin elements with different materials each of which fluoresces in a different color, assembling the elements in each group in spaced parallel relationship with adjacent elements separated by a distance greater than twice the thickness of each element, fixing cross-wise supports to the elements of each group, cutting said elements adjacent to said supports to form portions of said screen, and then positioning all of said portions in the same plane, with the elements of said different groups interspersed so that each element of each group is adjacent to an element of a different one of said groups.

2,669,769
METHOD OF MAKING CORE BOX VENT PLUGS
Edwin F. Peterson, Kewanee, Ill.
Application September 10, 1949, Serial No. 115,031
1 Claim. (Cl. 29—148.2)



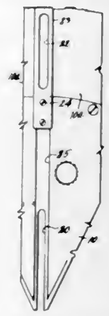
The method of making a core box vent plug comprising an integral one piece body in the form of a cup, said cup having a perforated heavy base and a contiguous thin walled portion extending away from said base; which method consists of placing a stock pellet within a confining cavity of a die, striking said pellet with impact means to deform said pellet into a thin walled cup with a thick base, and simultaneously causing partial perforation of said base from within said cup, then trimming the open end wall portions of said cup to a predetermined length, then applying pressure to opposite sides of the thick base to produce limited radial expansion of said cup at the base end thereof with respect to the cup wall end thereof, and finally removing a complete transverse portion of the external surface of the base to expose the adjacent ends of the partial base perforations.

2,669,770
METHOD OF FORMING ARTICLES
Robert F. Brewer, Quakertown, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 12, 1950, Serial No. 155,501
10 Claims. (Cl. 29—155.5)



10. The method of forming thermistors comprising advancing a pair of conductor wires longitudinally at parallel spaced positions, moving quantities of thermistor material having a given moisture content at spaced positions transversely of the wires to thereby deposit the quantities of thermistor material on the wires, agitating the wires to cause the quantities of thermistor material to settle uniformly about the wires to form joining bear-like members, heating the members to drive the moisture therefrom, directing the wires with the bead-like members through a furnace to anneal the members, covering the members with liquid glass, and directing the wires with the coated members through a furnace to anneal the glass coating on the members.

2,669,771
ARMATURE COIL LEAD STAKER
James S. Burge, Anderson, Hilton J. McKee, Middletown, and Warren M. Rider, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 17, 1949, Serial No. 127,924
12 Claims. (Cl. 29—205)



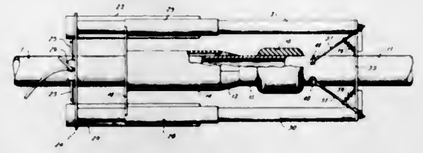
1. A machine for simultaneously staking lead wires of windings assembled with a slotted armature core assembled with a shaft and a commutator having bars providing notches into which the lead wires are to be staked, said machine comprising means for supporting the core, means for guiding the wires toward the commutator, a plurality of arms movable toward and away from the armature core and longitudinally and radially of said commutator, a plurality of pairs of fingers, each pair of which is carried by one of said arms wherein one finger of each pair is movable relative to the other whereby a wire may be gripped therebetween, mechanical means for moving said arms toward the lead wires of said windings on said armature core, means for effecting relative movement between each pair of fingers for causing said fingers to grip wires when said arms are moved toward said wires, said mechanical means then retracting the arms away from said armature core whereby said wires are carried by said fingers outwardly from the armature and are located between the wire guiding means, means for rotating the armature shaft to cause registration, with the wires as located by the wire guiding means, of those commutator bar notches which are to receive the wires, and wire staking means for forcing the wires into said notches and severing the wire portions then gripped by the fingers from the wire portions received by commutator bar notches.

2,669,772
TOOL FOR HANDLING RETAINING RINGS
Robert J. Hamler, Pittsburgh, Pa.
Application September 9, 1950, Serial No. 183,939
3 Claims. (Cl. 29—229)



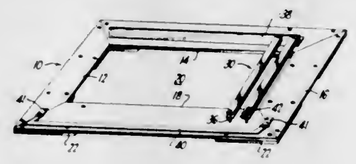
1. A tool for spreading open-ended retaining rings, comprising an integral handle, shank and ring-engaging end portion having a common longitudinal axis, said end portion being pointed and being of substantially conical shape with respect to said axis and having a flat cut out portion extending along the central longitudinal plane of said conical shape.

2,669,773
MEANS FOR TRANSFERRING COLLARS
Berry Glenn Price, Houston, Tex., assignor, by mesne assignments, to Tuboscope Company, Harris County, Tex., a corporation of Delaware
Application April 16, 1951, Serial No. 221,210
1 Claim. (Cl. 29—236)



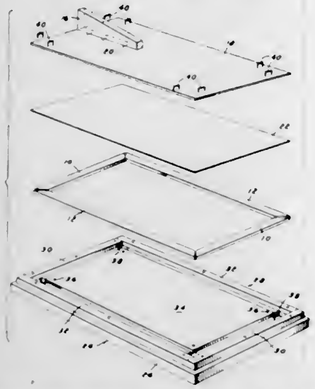
In a device for removing an expansible collar from a length of pipe, the combination of a conical sleeve with internal diameter substantially equivalent to the outside diameter of said pipe and comprising two parts hingedly secured together whereby said conical sleeve may be placed around said pipe; a cylindrical sleeve with internal diameter greater than the maximum outside diameter of said pipe and with outside diameter substantially equivalent to the maximum outside diameter of said conical sleeve, said cylindrical sleeve being movable over said pipe and being adapted to abut and cooperate with said conical sleeve while surrounding the pipe; a first structural unit comprising a push plate adapted to abut the second end of said cylindrical sleeve and having a U slot therein adapted to receive said pipe, together with a first push plate sleeve and a second push plate sleeve both secured to said push plate; a second structural unit comprising a first guide rod passing through said first push plate sleeve and a second guide rod passing through said second push plate sleeve together with a front plate secured to one end of each of said guide rods and having a U slot therein adapted to receive said pipe and a back plate secured to the other end of each of said guide rods and having a U slot therein adapted to receive said pipe; said structural units being adapted to sit loosely on said pipe and to slide easily thereon; a plurality of arms with first and second ends, said arms being hingedly mounted at said first ends to said back plate so as to make an angle with the axis of said pipe within a predetermined range; a plurality of feet, one secured to the second end of each of said arms, said feet comprising a first face adapted to engage said expansible collar and a second face adapted to engage said pipe, conical sleeve and cylindrical sleeve, both of said faces being of resilient material and substantially free from any protrusion, and said feet being positioned between said back plate and said push plate and adapted to slide upon the surface of said pipe, conical sleeve and cylindrical sleeve while pushing against said expansible collar; means operable between said first structural unit and said second structural unit for causing said push plate sleeves, push plate, cylindrical sleeve and conical sleeve to move toward said feet; whereby said expansible collar may be squeezed between said feet and said conical sleeve and moved over said conical sleeve onto said cylindrical sleeve in one continuous single step operation.

2,669,774
MOUNT TRAY
Charles R. Mitchell, Seneca Falls, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application October 5, 1949, Serial No. 119,642
3 Claims. (Cl. 29—286)



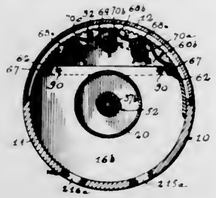
1. An electron tube mount tray including a substantially flat base member and a number of mount assembly receiving racks parallel to said base member and arrayed across the base member, each of said racks including a pair of flanged channel devices with the lowermost flanges of the channel devices above the level of the base member with an unobstructed space therebetween extending to the base level and spaced apart and having the open sides of said channels facing each other to receive and embrace the edges of a disc like member associated with said mounts whereby pins of said mounts may extend into said space, a stop member closing all of said racks at one end and a single bail member pivoted on said base member and adapted to be swung into alignment with all of the channels in said racks at the other ends of the channels whereby said disc like members are retained in said channels.

2,669,775
POSTER ASSEMBLY JIG
Donald S. Barnes, Rochester, Mich.
Application November 30, 1951, Serial No. 259,109
1 Claim. (Cl. 29—286)



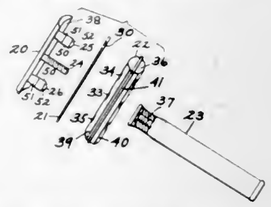
A jig for aligning and assembling the parts of a framed poster comprising, in combination, a base member having a relatively flat upper surface, narrow strips of uniform width and height being secured to the upper surface of the base member and arranged in a rectangular formation with their ends abutting one another so as to form a raised boundary on the base member, a platform member of rectangular formation and dimensionally proportional to that of said boundary but occupying an area slightly less than that defined by the boundary, said platform member being centrally disposed within said boundary and secured to the upper surface of the base member with the edges thereof equally spaced from the boundary strips to form upwardly opening grooves therebetween, the upper surface of the platform member being flat and rising to a height less than the boundary strips, and one or more apertures opening through the base member from the bottom surface to the upper surface thereof and into the grooves formed between the platform member and the boundary strips.

2,669,776
AUTOMATIC RAZOR
Emilian Bobkowicz, Westmount, Quebec, Canada
Application July 14, 1952, Serial No. 298,769
14 Claims. (Cl. 30—43)



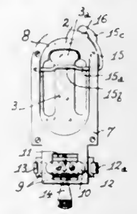
1. A manually operated dry shaving razor construction comprising a casing, a perforated screen fixedly mounted within said casing, at least one circular traction drive member mounted for rotation about a central axis within said casing and having an outer peripheral skin engaging surface extending beyond said perforated screen, a plurality of blade supporting elements mounted in radially spaced apart relationship for rotation within said casing beneath and adjacent to said perforated screen, a plurality of cutting blades mounted in equal spaced apart relationship on each of said blade supporting elements with the cutting edge of each blade adapted to contact the underside of said perforated screen in sequence, transmission means between said traction drive member and each of said blade supporting elements whereby rotation of said traction member through frictional contact with the skin surface to be shaved causes a multiplied counter-rotation of said blade supporting member.

2,669,777
SAFETY RAZOR
John T. Scully, New York, N. Y.
Application January 29, 1945, Serial No. 575,002
3 Claims. (Cl. 30—72)



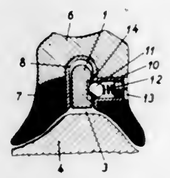
1. A safety razor including, in combination, relatively movable cap and guard members having blade-clamping faces cooperative for transversely flexing and clamping a flexible razor blade, the cap member having a hollow blade-clamping face, the guard member being facedly reversible and having two oppositely disposed blade-clamping faces either of which is cooperative with the cap member for transversely flexing the blade, skin guards forming opposite longitudinal side edges of the guard, one of said blade-clamping faces of the guard member being higher at its sides above the skin guards than the other, rigid blade-positioning projections extending downwardly from the cap member to engage the guard member for guiding said members relatively towards each other, said projections having slightly tapered upper side portions tapering in the direction of the cap member for guiding the blade as it is being flexed and centrally arched towards the cap member for positioning the blade relative to the guard member, and a handle member for moving said cap and guard members relatively towards each other.

2,669,778
REED TRIMMER
Lucien Cordier, Arnouville les Gonesse, France
Application April 9, 1951, Serial No. 219,952
Claims priority, application France
November 7, 1950
2 Claims. (Cl. 30—229)



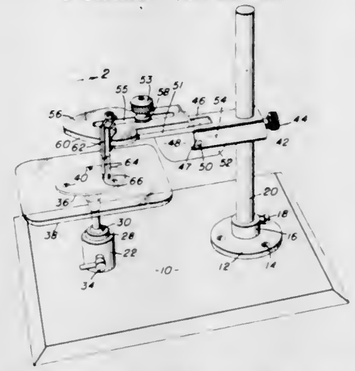
1. A reed trimmer comprising in combination an oblong frame member formed with an oblong aperture, a plate member fast with said frame member and formed with a die portion having a cutting edge extending towards one end of said frame member and with a punching resilient portion having a cutting edge extending towards the other end of said frame member, said punching portion being at its juncture with said plate member bent on one side relative to the plane of said plate member and having an inherent resiliency such as to constantly urge same toward said side thereby forming between said punching portion and said die portion a gap, in which the reed portion to be trimmed may be introduced to the desired extent, a pin disposed transversely of said punching portion on the side where said punching portion is bent and comprising a pair of shaft portions journaled in the side portions of said frame member, one of said shaft portions being formed with a bent lateral extension forming an actuating lever fitting the external contour of said other end of said frame member, a cranked portion of the pin itself against which said punching portion is urged by its resiliency, said cranked portion of the pin being adapted to hold said punching portion in a plane slightly offset from that of said die portion when said actuating lever is substantially in the plane of said frame member, and adapted to engage said punching portion for urging it towards said cutting edge of said die portion when said actuating lever is moved angularly from its position substantially in the plane of said frame member, i. e. its inoperative position, a check member fast with the external contour of said other end of said frame member, said actuating member being urged against said check member in inoperative position by the resiliency of said punching portion.

2,669,779
MEANS FOR MOUNTING ARTIFICIAL MOLAR TEETH
Guido Zuccoli, Florence, Italy
Application October 20, 1951, Serial No. 252,303
7 Claims. (Cl. 32—5)



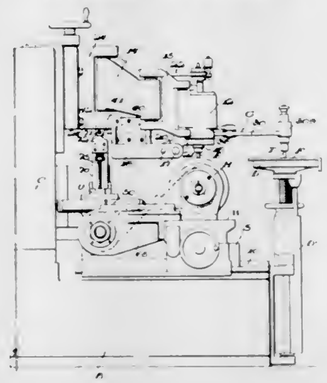
1. In dental prosthesis, a device for mounting artificial molar teeth in the mouth, comprising a bracket-like bar, means adjacent one end of said bar for attaching it to the natural molar teeth and holding it parallel to and spaced from the edentulous portion of the gums when the prosthesis is mounted in the mouth, a base carrying the artificial molar teeth comprising a gum simulating portion with teeth thereon, said gum simulating base being made at its lower part with a recessed portion to fit snugly above the edentulous gum, a saddle-like metallic insert in said base, said insert having a hollow part fitting with some play above said bracket-like bar, and coacting resilient locking means between said bracket bar and the insert for fastening said artificial tooth holding base to said bracket bar and for holding it substantially out of contact with the gums when the artificial teeth are not pressed towards the gums and permitting shifting of the lower hollow part of said base into contact with the gums when chewing pressure is exercised on said artificial teeth.

2,669,780
PIN CENTERING AND PARALLELING INSTRUMENT
Arvin W. Mann, Fort Lauderdale, Fla.
Application February 5, 1953, Serial No. 335,285
9 Claims. (Cl. 32—67)



1. A dowel pin centering and paralleling instrument for restorative dentistry comprising a clamp for engaging a support plate, said clamp having an upper jaw and a lower clamping jaw adapted to hold said plate therebetween, a plurality of spaced upwardly extending and tapering apertures in said clamp, and a plurality of tapered dowel pins received in said apertures, said dowel pins being frictionally held by said clamp in said apertures.

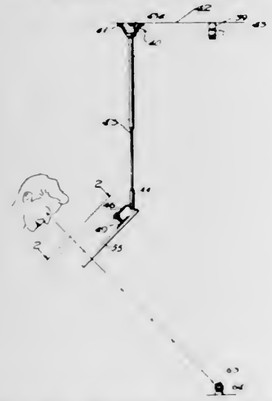
2,669,781
ENGRAVING MACHINE
Freddy Steinbrecker and Peter M. Henkes, Racine, Wis., assignors to George Gorton Machine Co., Racine, Wis., a corporation of Wisconsin
Application December 22, 1950, Serial No. 202,154
18 Claims. (Cl. 33—22)



12. In an engraving machine, in combination; a rotatable work holder; a cutter spindle; means mounting said cutter spindle in position with its axis perpendicular to the axis of rotation of said work holder; a pantograph linkage pivotally supported on said spindle mounting means for swinging laterally in a plane perpendicular to the axis of said spindle; a tracer connected with said linkage and being universally laterally movable to correspondingly swing said linkage about its pivotal support on said spindle mounting means as an axis; mechanism operatively connecting

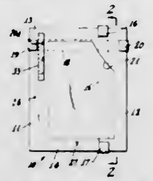
said rotary work holder with said pantograph linkage at a pivotal connection with said linkage spaced from the point of pivotal support of said linkage on said spindle mounting means for effecting rotation of said work holder in scaled relation to movements of said tracer in either direction along straight lined paths perpendicular to the axis of rotation of said work holder, and said pivotal connection between said mechanism and said linkage, said cutter spindle, and said tracer being relatively mounted with their axes in a straight line passing therethrough in all positions of operation thereof.

2,669,782
GOLF PRACTICE SIGHTING DEVICE
William Y. Turner, Chicago, Ill.
Application October 9, 1951, Serial No. 250,712
8 Claims. (Cl. 33—63)



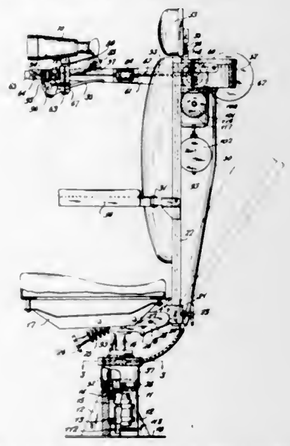
1. A device for sighting the position of a golf ball preparatory to executing a stroke to drive the ball, comprising a support, and a sighting unit adapted to be carried by the support in the path of the player's vision toward the ball, said unit comprising a frame having a horizontally-positioned and clear internal opening affording a view of the ball, and means extending into the opening from its sides to limit the width of said path in respect to the ball.

2,669,783
VIEWING APPARATUS
John J. Hegel, Meriden, Conn.
Application January 19, 1953, Serial No. 332,063
1 Claim. (Cl. 33—64)



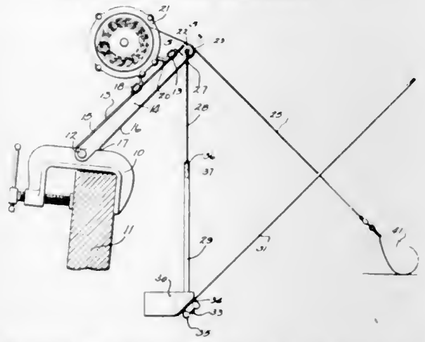
In a guide for determining the best position for viewing a scene to produce the most pleasing arrangement, composition, and perspective of a picture to be reproduced from said scene, an elongated bar, a slide member movable on said bar to any desired adjusted position, a rectangular upstanding open frame member secured to said slide member, the forward end of said bar serving as the point from which the scene is to be viewed, said frame member having a slidable vertical masking strip, and a slidable horizontal masking strip to permit the length and width of the frame aperture to be adjusted, one corner of said frame having an arcuate sector which is laid out in such a manner that when the edges of said strips intersect on the edge of said sector, the areas within said strips will be constant.

2,669,784
SKY LOOKOUT SUPPORT
Donald A. Lewis, Jr., Parma, Ohio
Application July 15, 1952, Serial No. 299,047
6 Claims. (Cl. 33—69)



1. In a sky lookout support, a seat post mounted to turn about a vertical axis, an operator's chair fixedly mounted on the upper end of said post, a housing surrounding and fixed to said post for rotation therewith, a spindle journaled in said housing, operative connections between said post and said spindle for causing the spindle to rotate as the housing turns with said post, a cable attached to said spindle, an azimuth registering instrument operatively connected with the other end of said cable, and means for mounting said instrument on said chair, whereby the relative angular positions of said housing and said instrument remain the same in all positions of said post.

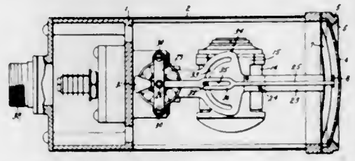
2,669,785
SOUNDING DEVICE FOR LOCATING SHALLOWS AND HOLES IN A LAKE BOTTOM
George S. Rydzewski, Milwaukee, Wis.
Application August 9, 1948, Serial No. 43,239
12 Claims. (Cl. 33—126.5)



1. A sounding device adapted to indicate the depth of a body of water over the bottom of

which a weight is dragged at the end of a line of predetermined length, said device comprising the combination with said line and weight, of a depth indicator comprising a pendulum including a support, a weight and an arm upwardly oblique respecting the support, said arm being provided with a scale calibrated in a fixed relationship to the length of the line and means along said scale for the guidance of the line as the weight is dragged over the bottom whereby the line indicates directly on the scale the depth of the weight beneath the surface of the water, the combined weight of the arm and weight coacting to hold said pendulum on a line of plumb whereby the arm is held at a fixed angle to the line of plumb.

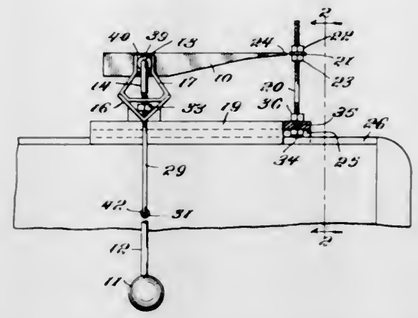
2,669,786
ATTITUDE INDICATOR
Edward E. Lynch, Wakefield, Mass., assignor to General Electric Company, a corporation of New York
Application September 17, 1946, Serial No. 697,456
1 Claim. (Cl. 33—204)



An artificial horizon indicator for an aircraft comprising a gyroscope mounted to rotate in a bearing frame so that the spin axis is approximately vertical, a gimbal supporting said bearing frame for rotation about an athwartship axis, a support adapted to be mounted on said aircraft on which said gimbal is mounted for rotation about a fore and aft axis, a skyplate secured to said gimbal and rotatable therewith to give a bank indication relative to said support, a horizon bar pivoted on said gimbal so as to move in front of said skyplate, said horizon bar being curved to simulate the curvature of the earth as viewed from in front of said skyplate, means for moving said horizon bar before said skyplate in response to relative movement between said bearing frame and said gimbal about said athwartship axis to give a pitch indicating movement, and stop means for preventing relative movement between said bearing frame and said gimbal about said athwartship axis beyond an angle between 2 and 10 degrees short of the position where said fore and aft gimbal axis would become aligned with the gyro spin axis as in vertical climb and dive positions of said aircraft, said stop means when engaged causing said gyroscope to precess resulting in rotation of said gimbal and said skyplate and the pivoted horizon bar approximately 180 degrees about the fore and aft gimbal axis whenever said aircraft passes through vertical climb and dive positions whereby an observer can easily determine whether the aircraft is upright or inverted by noting the direction of curvature of the horizon bar relative to said support.

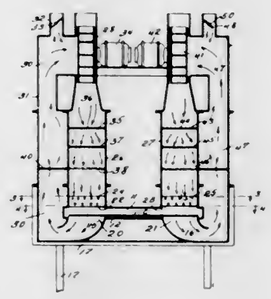
2,669,787
TRACTOR CONTOUR LEVEL
Ernest L. Wetzig, Sr., Carrizo Springs, Tex.
Application March 14, 1952, Serial No. 276,649
1 Claim. (Cl. 33—215)

In a tractor level indicator, the combination which comprises an elongated base for mounting the indicator on a tractor housing, a transversely disposed member mounted on said base, a shaft journaled on said transverse member, a pointer carried by one end of the shaft, a depending arm on the opposite end of the shaft, a weight piv-



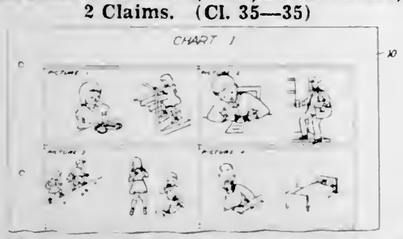
otally mounted on the arm and depending therefrom, a stud extended upwardly from the base, and a plate adjustably mounted on the stud and positioned to register with an end of the pointer for indicating the level position of the tractor on which the base is mounted.

2,669,788
MACHINE FOR DRYING HOSIERY
Harry S. Drum, Abington, Hugo F. Liedtke, Philadelphia, and Joseph Schmitz, Jr., Crestmont Farms, Pa., assignors to Smith, Drum & Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 7, 1950, Serial No. 166,666
1 Claim. (Cl. 34—223)



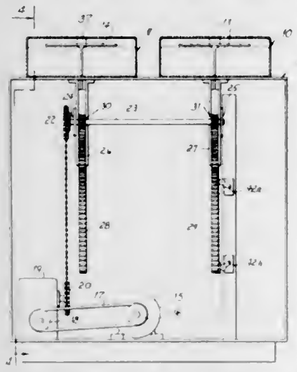
A hosiery drying machine, comprising the combination of a housing, a casing in said housing forming a closed end transverse passage having two upper spaced air inlets and two lower spaced air outlets respectively alined with said inlets, said passage having a width to receive a stocking disposed flat transversely of said passage with the leg portion thereof juxtaposed to the casing between said inlets and the welt and foot portions respectively alined with said inlets, conduits for air respectively communicating with said inlets, heating coils respectively on said conduits, blower means for delivering air to said heating coils, and return circulation conduits leading respectively from said outlets to said blower means.

2,669,789
MEANS FOR DRILLING LANGUAGE PATTERNS
Maxine G. Buell, Ann Arbor, Mich.
Application December 5, 1950, Serial No. 199,264
2 Claims. (Cl. 35—35)



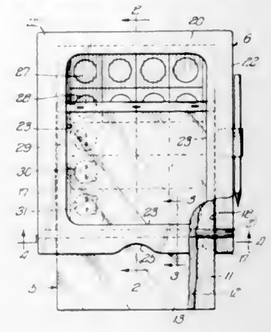
1. Means for drilling language patterns, comprising a chart illustrating a series of two or more related pictures located adjacent one another, said related pictures together suggesting a complete thought which may be expressed in a sentence; a series of transparent markers each having printed thereon a plurality of words forming an incomplete sentence, said marker adapted to be placed over said related pictures so that a student may complete the sentence upon the marker to describe the thought suggested by the pictures; the incomplete sentence of any one of said markers being applicable to each of the series of related pictures.

2,669,790
AUTOMATIC PRODUCT DISPLAY DEVICE
Richard D. Wells, Auburn, Maine, assignor to Bates Manufacturing Company, a corporation of Maine
Application December 13, 1950, Serial No. 200,544
5 Claims. (Cl. 35—50)



1. In a display device for providing a comparative visual indication of at least two products comprising housing means for receiving said products to represent a service condition for the products, carrier means for each of said products movable between extreme exposed positions spaced from said housing means and extreme positions within said housing means representative of a service condition for the products, actuating means for simultaneously displacing said carrier means between said extreme positions, limit means actuated by the carrier for terminating the operation of said actuating means upon arrival of said carrier means in either of its extreme positions, time delay means actuated by the limit means for re-initiating said actuating means a pre-established interval after actuation of said limit means to move said carrier to the opposite extreme position.

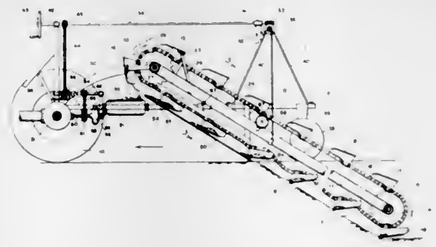
2,669,791
WRITING DEVICE
James W. Watkins, Aurora, Ill., assignor to The Strathmore Company, Aurora, Ill., a copartnership
Application February 13, 1953, Serial No. 336,739
3 Claims. (Cl. 35—66)



1. In combination, a pad adapted to receive and temporarily retain written matter or drawings which can be made to disappear without erasure, and a supporting frame and holder for said pad: said pad comprising a backing member formed of relatively thick and stiff cardboard having a dark-colored pressure-sensitive coating on the upper surface thereof and a sheet of light-colored translucent film secured along the top edge of said backing member; and said supporting frame and holder comprising, a bottom panel formed of relatively thick and stiff cardboard, strips of cardboard extending flatwise along and over the two side margins and across the top margin of said bottom panel and having a thickness approximately the same as that of said pad, the strips along the side margins serving as guides for the adjacent side edges of said pad when said pad is withdrawn from said frame and holder and the top strip serving as a limiting stop for the top edge of said backing member when said pad is pushed back into said supporting frame and holder, a parting strip extending over the bottom margin of said bottom panel with the ends of the parting strip secured to the bottom ends of said side guide strips, said parting strip passing in between the impressionable upper surface of said pad backing member and said light-colored translucent film so as to part said film from said upper surface of said backing member when said pad is slidably withdrawn from said frame and holder, and a cover retainer member for retaining said pad in said frame and holder secured flatwise over the upper surfaces of said side and top strips, said cover retainer having a window opening therein with the edges of the window opening located inwardly from the corresponding adjacent edges of said cardboard side and top strips so as to project over said bottom panel and define covered retaining grooves for the side and top edges of said pad.

2,669,792
TRENCHING MACHINE ADJUSTMENT FOR DIGGING CONVEYERS
Peter J. Hein, deceased, late of Longmont, Colo., by Magdalina J. Hein, administratrix, Longmont, Colo.
Application May 29, 1947, Serial No. 751,181
1 Claim. (Cl. 37—90)

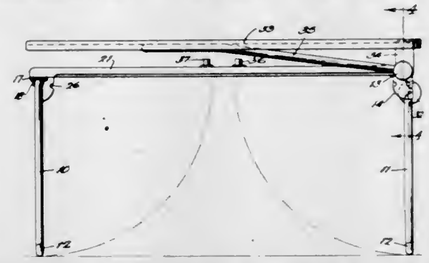
A trenching machine comprising a chassis frame having a pair of longitudinal beams attached at their front ends to the rear axle housing of a tractor or the like and supported thereby, said chassis frame having a pair of supporting wheels for supporting the same at a location adjacent the rear ends of the longitudinal beams, a pair of upwardly converging arms carried by said axle housing extending rearwardly from the housing, said supporting wheels being adapted to move along each side of a trench to be excavated by said trenching machine, bearings disposed at the rear ends of said arms, a shaft extending through said bearings and interconnecting the arms, a boom swingably mounted upon said shaft between said bearings and at a point substantially above ground level, bracket members carried by and extending upwardly from the rear end portions of the longitudinal beams, a revolvable shaft journaled in and interconnecting the upper end portions of the brackets, means connecting the revolvable shaft and an intermediate portion of said boom to support the boom and to raise and lower the same, a pair of drive sprockets at the upper end



of the boom carried by the arms-supported shaft, a pair of idler sprockets at the lower end of said boom, said tractor or the like having a power take-off, drive means from said power take-off connected to said arms supported shaft for rotating said drive sprockets and said arms-supported shaft, drive means from said power take-off for rotating said revolvable shaft, bearing means providing the swingable connection between the upper end of the boom and the said arms-supported shaft, a pair of endless chains extending around said sprockets for drivingly connecting the same, a series of earth removing open-ended buckets mounted in spaced positions on said chains, a transversely extending conveyor mounted on said chassis frame above ground level but adjacent and below the upper end of said boom, and a slide depending from said chassis frame beneath the path of travel of said open-ended buckets and extending substantially from ground level to said transverse conveyor.

2,669,793
IRONING TABLE WITH FABRIC SUPPORT
Edwin E. Foster, Austin, Tex., assignor to Majik-Ironers, Inc., Austin, Tex., a corporation of Texas
Application February 21, 1951, Serial No. 212,090
4 Claims. (Cl. 38—111)

1. An ironing table comprising a pair of spaced end supporting structures, elongated connecting means secured to the end structures and rigidly connecting the end structures in spaced relationship, an elongated ironing board, means securing one end of the ironing board rigidly to one of the end structures at a level above the end structures, the ironing board extending as a cantilever, toward the other of the end structures and terminating at its other end in vertically spaced relationship above the other of the end structures, and leg members connected to the end structures to support them on and above a floor.



2,669,794
COLLAPSIBLE IRONING TABLE
Walter L. Anderson, Wichita, Kans.
Application December 3, 1951, Serial No. 259,535
2 Claims. (Cl. 38—129)



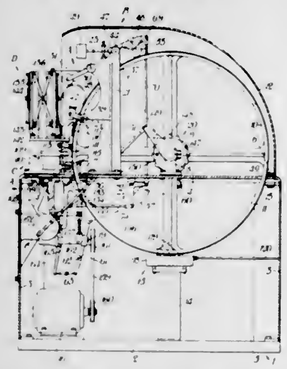
1. A collapsible ironing table assembly comprising an ironing board, a pair of reinforcing strips extending longitudinally of said ironing board in transversely spaced relation and having forward portions rigidly fastened in broad surface contact with a major portion of the longitudinal extent of the ironing board undersurface, said reinforcing strips having rear portions extending rearwardly in transversely spaced relation beyond the rear end of the ironing board, the rear strip portions having transverse aligned apertures extending through the rear extremities thereof, a transversely extending channel-shaped bracket of length substantially equal to the transverse spacing between said reinforcing strips, said bracket defining a transversely extending channel and having rearwardly extending opposed ears at the transverse ends thereof defining the ends of the channel, said ears having aligned transverse openings therethrough opening into the channel and aligned with the apertures of said reinforcing strips, a bolt extending through the aperture of one reinforcing strip, the opening of the adjacent bracket ear, through the bracket channel, the opening of the other bracket ear, and the aperture of the other reinforcing strip, said reinforcing strips defining with the ironing board undersurface at the inner opposed edges of the forward portions of the strips opposed longitudinally extending guideways, said reinforcing strips having transverse aligned apertures opening into said guideways at the rear thereof defining locking sockets, a further bracket interconnected with said first mentioned bracket and depending therefrom, said further bracket having an open hook at the end thereof, a clip having a vertical slot for retention in vertically adjustable overlying relation to said further bracket adjacent said hook, said clip being adjustable to open and close said hook, and a U-shaped support link having a bight portion pivotally retained by said hook and clip and having outturned free ends for sliding in soid opposed guideways and for expansion into said locking sockets in horizontal position of the ironing board.

2,669,795
TAG ATTACHMENT DEVICE
Harry L. Spaulding, William E. Gladstone, Jr., and Mike Markovich, Washington, D. C.
Application February 21, 1951, Serial No. 212,097
2 Claims. (Cl. 40—20)



1. An attachment device for a tag assembly having a string loop, comprising a slender pin having a body and a pointed end for insertion through a fabric, means for attaching a portion of said string loop to the pin body at a point intermediate the ends of said pin, and a weakened region in the pin at said string attachment point strong enough to permit insertion of the pin through the fabric without breaking whereby, after insertion through a fabric said pin may be turned transversely to retain said string loop in the fabric or said pin may be snapped at said weakened region to release the string loop.

2,669,796
TRANSFER APPLYING DEVICE FOR GLASS, CERAMIC, AND OTHER WARE
Kenneth Godfrey Aldridge, London, England, assignor to Johnson, Matthey & Company Limited, London, England, a British company
Application April 6, 1951, Serial No. 219,743
Claims priority, application Great Britain April 21, 1950
10 Claims. (Cl. 41—1)

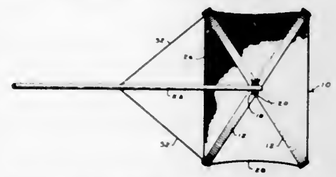


9. In apparatus for applying transfers to glass, ceramic and other ware to be decorated, the combination with an intermittently rotatable drum comprising means on the periphery of said drum adapted to retain a transfer thereon, automatic transfer feed mechanism associated with said drum, automatic transfer backing-removing mechanism, releasable supporting means for retaining ware to be decorated in frictional rotative engagement with the periphery of said drum, said backing-removing mechanism and ware-supporting means being located at spaced positions around the periphery of said drum, means for actuating said backing-removing mechanism to remove the backing from the transfer on said drum, and means for intermittently rotating said drum so as to bring said transfer progressively into position for operation thereon by said backing-removing mechanism to remove the backing therefrom and then to bring said transfer into engagement with the rotating ware for withdrawal thereby from the drum.

2,669,797
TREATMENT OF COLORED PICTORIAL REPRESENTATIONS TO SIMULATE ORIGINAL OIL PAINTINGS
Dominick D. Razzano, Rego Park, N. Y.
No Drawing. Application January 24, 1951, Serial No. 207,667
3 Claims. (Cl. 41—26)

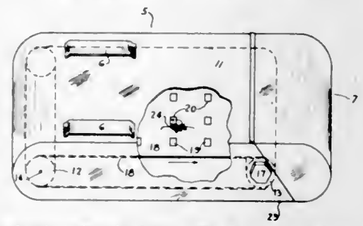
1. In a method of rendering and preserving a colored reproduction of a picture to simulate the original, the steps of subjecting both sides of the colored reproduction to a protective bleed-proofing compound, then coating over the colored side of said treated reproduction with a substantially transparent wrinkle coating composition and permitting said composition to dry until a non-uniform and broken surface is effected to simulate a canvas-texture and original brush strokes.

2,669,798
COLLAPSIBLE SEINE
Walter P. Hesch, Washington, Mo.
Application February 27, 1953, Serial No. 339,379
4 Claims. (Cl. 43—8)



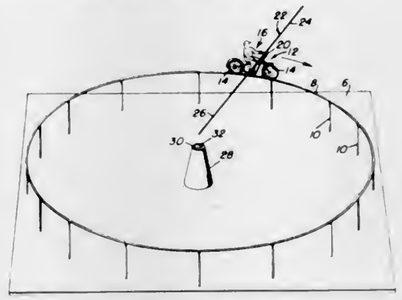
1. A seine comprising a mesh body; crossed bows connected at their ends to the corners of the body; a handle pivotally connected to the bows at the point of crossing thereof for tilting of the body about an axis extending transversely of the handle; and means extending from selected corners of the body to an intermediate portion of the handle, arranged to limit tilting of the body in one direction.

2,669,799
FISHERMAN'S FLY BOX
William M. Stiteler, Camp Hill, Pa.
Application March 26, 1951, Serial No. 217,521
6 Claims. (Cl. 43—57.5)



1. A device for holding flies comprising an oblong casing having side and end walls and a semi-circular bottom, the end walls at their upper edges being inclined from the rear to the front side, a cover pivoted to the rear side at the upper ends of the inclined edges for pivotal movement, said cover having sides with inclined edges complementary to the side edges of the first named end walls, rollers within the casing, means for supporting the rollers, one of said roller supporting means being positioned in spaced relation to and parallel to the transverse axis of the bottom of the casing, the other roller supporting means being positioned below the inclined edges and parallel to the first supporting means, the roller on the second supporting means extending slightly above the inclined edges of the oblong casing, and a conveyor on the rollers, said conveyor having means to which the hook of a fly may be attached for holding the fly on the conveyor so that movement of the conveyor will position the fly with the eye thereof so located that the hand of an operator may engage the eye of the fly at points above the plane of the inclined edges of the end walls.

2,669,800
WHEELED FIGURE TOY TRACK AND BALANCE MEANS
Martin J. Dietrich, Kamloops, British Columbia, Canada
Application March 2, 1953, Serial No. 339,533
2 Claims. (Cl. 46—45)



1. In a toy in which the forces of gravity, magnetism, and centrifugal-forces are involved, in combination, a base, an elevated single endless track rail mounted on said base, a rider-equipped self-propelled bicycle having driven wheels operatively cooperable with said track rail, said bicycle embodying handle bar means, a balance bar having an intermediate portion affixed to said handle bar means with the outer end portion projecting radially and outwardly beyond the outer perimeter of the track rail and the inner end portion overhanging the base and projecting toward and terminating at the axial center of the track rail and base, said inner end portion being magnetized, and upright means carried by the axial center portion of said base having an axially arranged magnet with which said inner end of said balance bar is in spaced but retentive relationship.

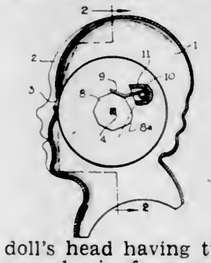
2,669,801
ACROBATIC TOY
Archibald A. Mercola and Paul D. Tetrick, Beverly Hills, Calif.
Application May 19, 1952, Serial No. 288,694
2 Claims. (Cl. 46—133)

1. An acrobatic toy comprising a base, a pair of spaced tubular standards on the base, one of said standards having a slot formed therein adjacent the base, U-shaped bearings on the free end of each standard, a bar rotatably supported by said bearings parallel to the base, a flexible figure fixedly attached to the bar, a pinion on the bar and within the confines of one bearing, a rack slidable within said one standard engageable with said pinion to rotate the pinion and bar, a stem on the rack, a spring about the stem to urge the rack to the uppermost position, a lever on the stem extending outwardly through the slot in said standard by which the rack may



be depressed, said rack at certain locations having teeth omitted therefrom in order that the pinion may be disengaged to permit the bar to freely rotate.

2,669,802
CHANGEABLE FEATURE DOLL HEAD
Louise M. G. Olivier, Ottawa, Ontario, Canada
Application July 19, 1950, Serial No. 174,603
2 Claims. (Cl. 46—135)



1. A hollow doll's head having two oppositely facing faces, a spaced pair of eye openings in each face, a common pair of ears serving both faces, a wig mounted on the head at top center by a pivot and rotatable thereon to serve one face and cover the other, and changeable eye mechanism in said head comprising a transverse rotatable shaft mid-way of the two faces, the ends of which project in the areas of said ears, manually engageable shaft rotating members on said shaft ends simulating ear ornaments and a pair of drums on said shaft with eye-simulating decorations on the circumferences thereof registrable with the eye-openings of both faces.

2,669,803
CONSTRUCTION OF FIGURINES
Allan Morgan, Wyandotte, Mich., assignor to All Metal Products Company, Wyandotte, Mich., a corporation of Delaware
Application November 13, 1950, Serial No. 195,245
8 Claims. (Cl. 46—151)

8. As an article of manufacture, a figurine comprising complementary front and rear sections of contrasting colors and shaped to the contour of the figure depicted, said front section having formed in relief thereon a head portion having an aperture, said aperture having the shape of one of the features in the head, and a projection on said rear section and extending for-

wardly through said aperture, said projection being of shape corresponding to said aperture,



whereby a feature of contrasting color is visible on said head.

2,669,804

METHOD OF IMPROVING PLANT YIELDS

Herman Cohen, Brookline, Mass., assignor of one-half to Imperial Talc Company, Inc., Hoboken, N. J., a corporation of New Jersey

No Drawing. Application April 16, 1949, Serial No. 88,050

4 Claims. (Cl. 47—9)

4. A method of accelerating and increasing the yield of uniformly sized fruits, berries and legumes, which consists in scattering on the ground around the plant flakes of water-insoluble light reflecting material, so that the flakes substantially cover the ground and present reflecting surfaces disposed at irregular angles, thereby to reflect sunlight in a variety of directions, said flakes consisting of mica of an average size less than four square inches.

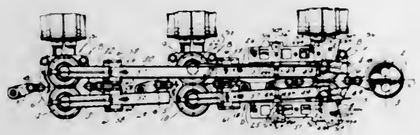
2,669,805

GLASS CHARGE DELIVERY AND FORMING APPARATUS

George E. Rowe, Wethersfield, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware

Application February 16, 1950, Serial No. 144,420

12 Claims. (Cl. 49—5)



1. In a glassware forming machine, a plurality of independent forming machine sections, a pair of glassware forming molds in each of said sections, means for operating the molds of each section simultaneously and for operating the molds of the several sections sequentially, glass charge feeding means including a plurality of outlets through which glass charges are periodically discharged, delivery means for periodically receiving groups of simultaneously discharged charges from a plurality of said outlets and delivering each successive group of charges to successive forming sections and for delivering the charges of each group simultaneously to the molds of a section, all of the molds being at the same elevation relative to the feeder outlets and wherein the molds of each pair of molds are equally spaced from opposite sides of a common vertical plane and said feeder outlets are equally spaced from opposite sides of the same common vertical plane.

2,669,806

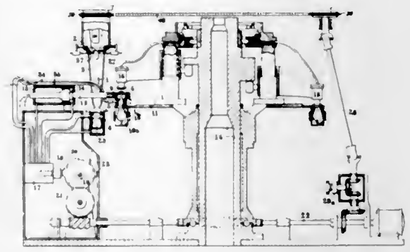
FEEDER FOR MOLTEN GLASS

Edmond Van de Walle, Neuilly-sur-Seine, Charles Van de Walle, Paris, and Emile Bonnefoy, La-Varenne-Saint-Hilaire, France

Application December 8, 1951, Serial No. 260,692

Claims priority, application France December 31, 1948

6 Claims. (Cl. 49—5)



1. A glass blowing machine comprising a rotating working table having blowing ports circularly and regularly distributed thereon, a device for delivering gobs of molten glass onto said ports, said device comprising a receiver mounted for reciprocation between a lower and an upper position, means for delivering successive gobs of molten glass onto said receiver when this latter is in its lower position, a head having a cavity at its lower part and mounted for horizontal reciprocation between a first extreme position in vertical register with the receiver but spaced a short distance above the upper position of said receiver and a second extreme position in vertical register with the circular path of the blowing-ports of the machine, means for exerting a suction in the cavity of the head and thereby retaining in the same a gob of molten glass, means for exerting pressure in said cavity and thereby ejecting said gob from said head, and means for periodically and selectively actuating said gob delivering means, said reciprocable receiver, said reciprocable head, said suction-means and said pressure-means, in synchronism with the rotative motion of the working table of the machine.

2,669,807

GLASS COMPOSITION

John Jacob Smith, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application September 15, 1951, Serial No. 246,869

7 Claims. (Cl. 49—92.5)

1. A glass having substantially uniform absorption of light in the portion of the light spectrum lying between 440 and 660 millimicrons comprising:

Component:	Percent by weight
SiO_2	50–63
Na_2O	1–15
K_2O	7–26
CaO	1–10
MgO	0–8
Al_2O_3	2–12

the sum of SiO_2 and Al_2O_3 being within the range of 61 to 66.5 per cent by weight, the sum of Na_2O and K_2O being within the range of 22 to 27 per cent by weight, and the sum of CaO and MgO being within the range of 7 to 10 per cent by weight.

2,669,808

GLASS COMPOSITION

James Earle Duncan, Brackenridge, and John J. Smith, Tarentum, Pa., assignors to Pittsburgh Plate Glass Company

No Drawing. Application September 15, 1951, Serial No. 246,870

5 Claims. (Cl. 49—92.5)

1. A glass having substantially uniform absorption of light in the portion of the visible spectrum lying between 440 and 660 millimicrons comprising:

Component:	Per cent by weight
SiO_2	50–63
Na_2O	15–25
K_2O	0.5– 7
CaO	1–10
MgO	0– 8
Al_2O_3	2–12

the sum of SiO_2 and Al_2O_3 being within the range of 61 to 66.5 per cent by weight, the sum of Na_2O and K_2O being within the range of 22 to 27 per cent by weight, and the sum of CaO and MgO being within the range of 7 to 10 per cent by weight.

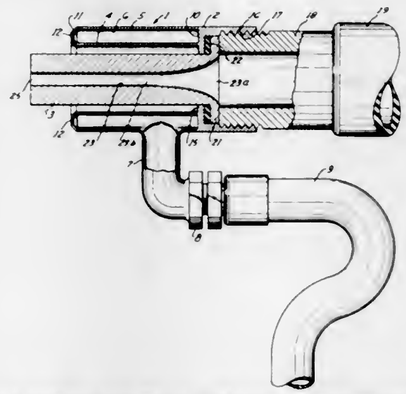
2,669,809

SAND BLASTING APPARATUS AND METHOD

James Richard McGrath, Cleveland, Ohio

Application April 18, 1951, Serial No. 221,603

9 Claims. (Cl. 51—11)



1. A method of sand blast cleaning comprising projecting a stream of sand at high velocity from a blasting gun toward the surface being cleaned, simultaneously directing a plurality of individual streams of water substantially parallel to said sand stream toward said surface so as to surround the sand stream in spaced relation thereto adjacent the gun, causing said water streams to strike said surface immediately adjacent the point of impact of said sand stream therewith and to be thereafter redirected to flow radially outwardly from said impact area to saturate the area of said surface surrounding and immediately adjacent said impact area.

2,669,810

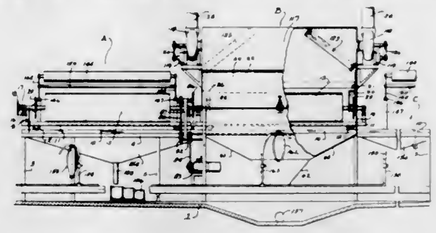
METHOD AND APPARATUS FOR GRAINING LITHOGRAPHIC PLATES

Edwin G. Carlson, Caledonia, and Arthur H. Eppler, Milwaukee, Wis.; said Carlson assignor to said Eppler

Application January 28, 1950, Serial No. 141,040

21 Claims. (Cl. 51—15)

4. In a plate graining machine the combination with a rectilinear track and a carriage movable on said track, said carriage being provided with bearings, of a cylindrical drum mounted for rotation on an axis parallel to the track in the bearings, means at one position along the track for rotating said drum, a nozzle mounted



proximate the track at said position for rectilinear traversing movement respecting the drum and means for traversing the nozzle, means of supplying to the nozzle fluid-borne abrasive, and means for forceably jetting said abrasive from the nozzle toward the drum.

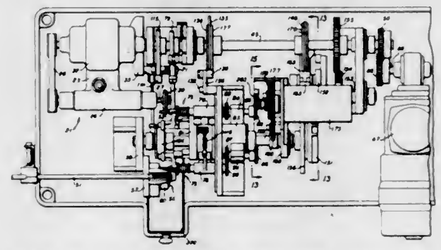
2,669,811

ARTICLE FORMING APPARATUS

Clifford W. Henderson, Emmaus, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y. a corporation of New York

Application February 9, 1951, Serial No. 210,201

5 Claims. (Cl. 51—37)



1. An article cutting apparatus comprising a turret mounted for intermittent movement about its axis, like rotatable chucks, pivoted arms for supporting the chucks mounted at spaced positions about the turret, means to normally urge the arms with the chucks outwardly under given forces, a cutter rotatable about its axis and movable axially between given limits, and means to normally hold the chuck arms against outward movement operable to release the chucks when in an operating position adjacent the cutter whereby the article will be moved into the cutter.

2,669,812

RUBBING MACHINE

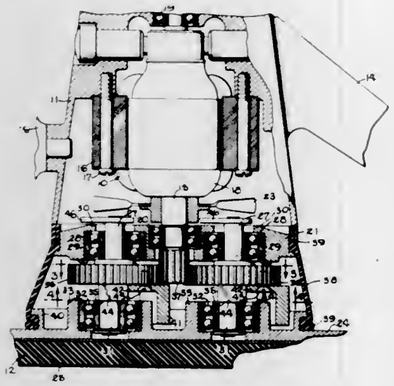
Roy J. Champayne, Rockford, Ill.

Application April 20, 1949, Serial No. 88,511

1 Claim. (Cl. 51—170)

A rubbing machine having, in combination, a support, thrust bearings mounted in said support and having laterally spaced parallel axes, two parallel shafts journaled at one of their ends in said bearings with the other end portion of the shafts projecting from one side thereof, a rubbing shoe disposed beyond the outer ends of said shafts, cranks on the outer ends of said first shafts journaled in said rubbing shoe near opposite ends thereof and operable to gyrate the shoe in orbits of equal diameters, a rotary motor mounted on said support between said shafts and

having a drive shaft, means disposed between said bearings and said shoe and providing speed reduction drive connections between said motor shaft and each of said first shafts to turn the latter in the same direction, and two counterweights each fixed to one of said first shafts be-



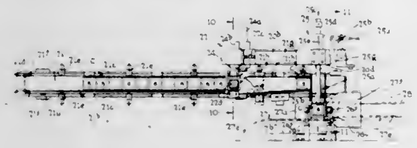
tween the drive connection thereof and said shoe and eccentrically disposed on the sides of the shafts opposite said cranks, the masses of said weights and their effective radii being correlated with the eccentric weight of said shoe and cranks to counterbalance such weight effectually during operation of said motor.

2,669,813

CARTON CONTENTS TAMPING AND SEALING APPARATUS

Hans O. Irmscher, East Hempstead, N. Y., assignor to National Tea Packing Company, Inc., a corporation of New York

Application January 26, 1950, Serial No. 140,606
15 Claims. (Cl. 53—6)



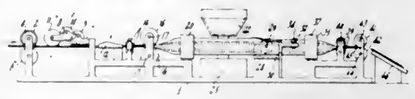
1. In a method of forming sealed end closures on open-ended cartons filled with articles, the steps of continuously advancing a series of said filled cartons with the open ends up along a path in a first direction, stopping said advancement of each carton against a single fixed barrier projecting in said path for bringing said series into direct abutment relation of all filled cartons, tamping the carton contents while each carton is in a relatively stationary position against said barrier in said path during one time interval, moving each tamped carton of said series a distance out of said path transversely of said first direction, by-passing the projecting fixed barrer and returning of each tamped carton to continue advancement in said path; transferring each tamped carton transversely said first direction to another path in a second direction, and concurrently with said tamping step folding and adhesively sealing flaps at each of said carton open ends of a preceding carton to provide a completely closed carton in form for boxing and shipping.

2,669,814

METHOD AND MACHINE FOR FILLING AND WRAPPING PACKAGES

Roderick W. Hoag, Melrose, Mass., assignor to Hoag-Russell Corporation, Melrose, Mass., a corporation of Massachusetts

Application August 22, 1952, Serial No. 305,834
5 Claims. (Cl. 53—10)



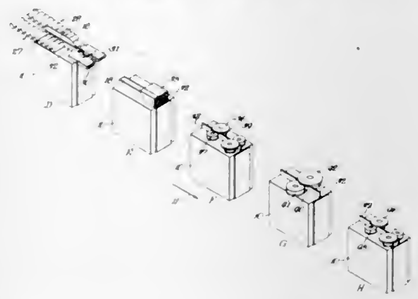
1. The method of making filled wrapped packages by a sequence of operations; consisting in advancing a web of flat, flexible, wrapper material having positioned longitudinally thereon and transversely spaced apart from each other, and inward from the side margins of the wrapper web, two webs of single faced transversally corrugated material with the ends of the corrugations open; severing the web of flat flexible wrapper material to provide two web assemblies, each composed of a web of flat wrapper material with a web of corrugated material positioned thereon; cutting the crown of each corrugation near the margin of the corrugated web to provide a weakened point so that the packages may be easily broken for dispensing the contents; adhesively treating the inner top margins of the flat wrapper material; folding, pressing and securing the inner margin of each web of wrapper material to the top inner margin of each corresponding web of corrugated material, thus closing the inner openings of the corrugated material; turning both web assemblies to a vertical position; filling the flutes of the corrugation of each web assembly with a commodity; adhesively treating the top inner margins of the flat wrapper material; folding, pressing and securing the top margin of each web of the flat wrapper material to the top inner margin to each corresponding web of corrugated material, thus closing the openings of each web of corrugated material; and transversely severing the webs to provide individual commodity units.

2,669,815

METHOD OF AND APPARATUS FOR CLOSING AND SEALING CONTAINERS

Julius A. Zinn, Jr., and Curtis B. Shaw, Chicago, Ill.; said Shaw assignor to said Zinn

Application April 19, 1950, Serial No. 156,736
23 Claims. (Cl. 53—20)



1. The method of closing and sealing paraffined or similarly treated paper board containers of the type having a preformed body portion surmounted by an open mouthed portion scored along predetermined fold lines and adapted to form a fully depressible bellows type end closure

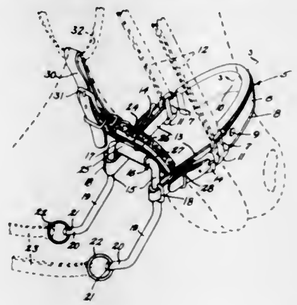
which comprises the steps of, folding said mouth portion to form a fully depressed bellows type end closure having a fully formed upstanding closure rib, preheating said closure rib while maintaining said closure fully depressed by applying pressure to the top of said rib, and applying sealing heat and pressure to said rib while maintaining pressure on the top thereof.

2,669,816

BITLESS HACKAMORE

Adam Pletsch, Spokane, Wash.

Application September 22, 1952, Serial No. 310,828
3 Claims. (Cl. 54—6)



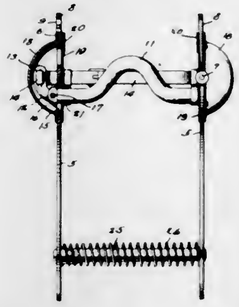
3. In a bitless hackamore, the combination with a supporting harness, of a lever fulcrumed on said harness rearwardly of a horse's jaw and being adapted to receive reins at its lower end, and a pressure pad pivotally carried by said lever at the other end of said lever and spaced from the fulcrum and adapted to apply pressure to the horse's jaw when the reins are pulled rearwardly.

2,669,817

BRIDLE BIT

James M. O'Donnell, Alleghany, Calif.

Application November 28, 1951, Serial No. 258,682
2 Claims. (Cl. 54—7)



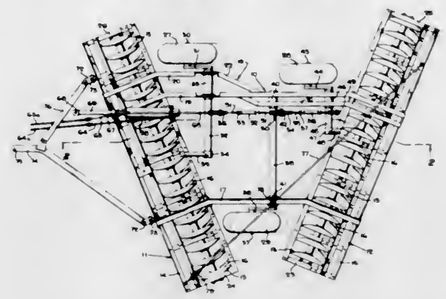
1. In a bridle bit, side bars having enlarged circular end pieces, a bit bar pivotally connected with said end pieces, a chin strap connected to the ends of the bit bar of each, said side bars having ring-shaped rein-receiving ends, a connecting strap connected with said side bars at points adjacent to the ring-shaped ends, and an expansible coiled spring surrounding said connecting strap, the ends of said coiled spring engaging the inner surfaces of said rein-receiving ends normally biasing said rein-receiving ends of said side bars away from each other.

2,669,818

DISK HARROW

Harry A. Pursche, Gardena, Calif.

Application May 10, 1948, Serial No. 26,041
10 Claims. (Cl. 55—73)



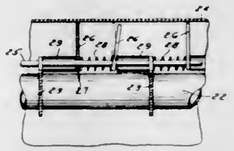
1. In a device for supporting a pair of diverging gangs of harrow disks, the combination of: a frame adapted to support the disk gangs in fixed tandem angular relationship; a plurality of ground engaging wheels positioned between the disk gangs and adapted to support the frame, said plurality of wheels including a forward wheel positioned in close proximity to the forward end of the forward disk gang, an intermediate wheel positioned at a location near the adjacent ends of the disk gangs, and a rear wheel positioned near the rear disk gang, the distance between the forward wheel and the foremost harrow disk on the forward disk gang being substantially less than the distance from the rear wheel to the rearmost harrow disk on the rear disk gang, the forward and rear wheels being laterally offset to roll in separate paths.

2,669,819

STALK SHREDDER HAMMER AND SPACER

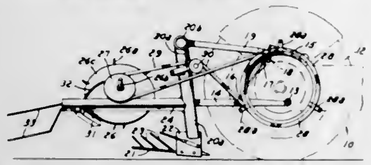
Frederick D. Sawyer, Wayne, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware

Application October 17, 1951, Serial No. 251,751
1 Claim. (Cl. 55—118)



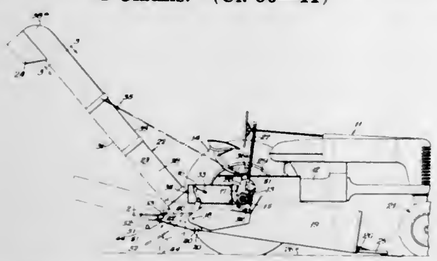
A hammer assembly for a stalk shredder having a rotatable axle, comprising a pair of axially spaced supporting elements rotatable with said axle, a shaft carried by said elements for rotation about the axis of said axle, a plurality of spaced hammers respectively having enlarged apertures through which said shaft freely extends, and hammer spacing ears having medial apertures, respectively, receiving said shaft therethrough, each of said hammers being snugly interposed between a pair of said ears and in extended surface contact with both of said ears, said ears being inherently resilient and normally extending radially of said shaft to retain said hammers in radial planes, said ears being resiliently deformable to accommodate hammer deflection and to return said hammers to said radial planes.

2,669,820
DIGGING AND WINDROWING ROOT HARVESTER
Francis O. Falkner, Headland, Ala.
Application June 22, 1950, Serial No. 169,588
8 Claims. (Cl. 55—139)



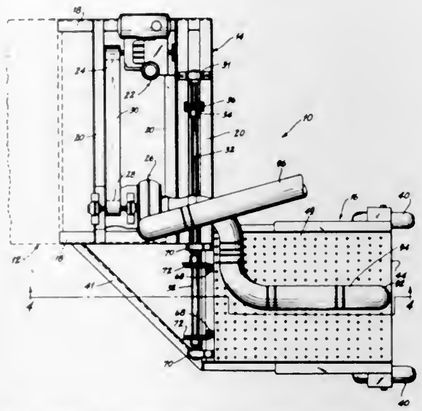
1. A peanut harvester for use with a tractor having a pair of laterally spaced, power lifted trailing hitch links and a central top link, comprising a transversely disposed, inverted U-shaped main frame constructed and arranged to straddle a row of peanuts, said main frame having a horizontal bight portion and depending vertical leg portions, a transverse beam connecting the vertical leg portions of said main frame, bracket means on said beam adapted for pivotal connection respectively to the tractor hitch links, means on the bight portion of said main frame adapted for pivotal connection to the tractor top link, whereby said main frame is liftable by the tractor hitch links, a digging blade secured to the bottom end of one of said vertical leg portions and constructed and arranged to loosen the vines in the soil as the harvester proceeds along the row, a rearwardly extending beam secured to the medial portion of said one vertical leg portion, a rotatable vine lifting device, bearing means on said rearwardly extending beam for journaling said vine lifting element for rotation about a transverse and downwardly inclined axis overlying the row of peanuts, and means for driving said vine lifting element at a speed proportional to the ground speed of the tractor.

2,669,821
LIFTING MEANS FOR TRACTOR-MOUNTED EQUIPMENT
Benjamin M. Hyman, East Moline, and Lee P. Millard, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application January 18, 1951, Serial No. 206,542
4 Claims. (Cl. 56—11)



1. For use with a tractor having a transversely projecting rear axle housing; the combination of a crop gathering unit having a rearward portion, means operatively connected with the rearward portion of said unit for detachably suspending the same from the axle housing, an elongated elevator structure projecting upwardly and rearwardly from the gathering unit rearward portion, means pivotally connecting a lower front end portion of the elevator structure with the rearward portion of the gathering unit for pivotal movement relatively thereto about a horizontal axis, ground engageable fulcrum means operatively connected with the elevator structure and spaced rearwardly from said axis to engage the ground and cause the elevator structure to pry upwardly on the rearward portion of the gathering unit attendant to downward swinging of the elevator structure about said axis.

2,669,822
COTTON HARVESTING MACHINE
Tempel Leroy Kinne, Dallas, Tex., assignor to John E. Mitchell Company, Dallas, Tex., a corporation of Missouri
Application April 7, 1950, Serial No. 154,510
12 Claims. (Cl. 56—12)



1. A cotton harvesting machine, comprising a mobile housing having a front end and a rear end; means for moving the housing over a row of cotton plants in a horizontal position; at least a pair of elongated brush supporting members rotatably mounted within the housing adjacent the front end thereof and extending upwardly relative to the housing and to the plane of the cotton plants when the machine is in use, both of said members being disposed at an angle relative to the horizontal axis of the housing so that the upper ends thereof extend forwardly relative to the housing beyond their lower ends; a series of brushes extending radially outwardly from said brush supporting members; and means for simultaneously rotating said members so that the lower surfaces thereof rotate toward each other in such a manner that the forward ends of said brushes engage the cotton plants at the top before engaging the lower portions.

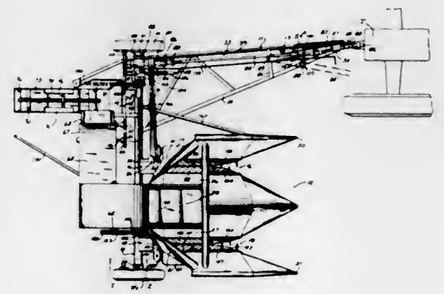
2,669,823
SUGAR CANE HARVESTER
Anton J. Kramer, Fellsmere, Fla.
Application December 1, 1950, Serial No. 198,701
3 Claims. (Cl. 56—15)



1. In a sugar cane harvester, the combination which comprises a platform carried by

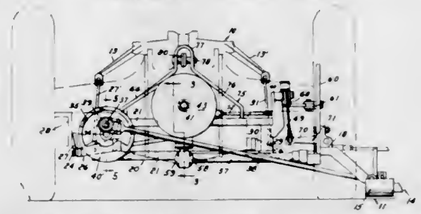
wheels, vertically spaced upper and lower pairs of endless chains having spaced arms extended therefrom positioned above the platform, sprockets journaled on the platform and over which said chains are trained, said sprockets positioned whereby the chains are inclined upwardly from the leading end of the platform and extend to points spaced beyond the trailing end of the platform whereby products carried upwardly by the arms extended from the chains are adapted to be dropped into a vehicle positioned at the rear of the platform, an inclined plate spaced below the lower pairs of chains upon which the lower ends of stalks of sugar cane slide, coacting horizontally disposed circular cutting knives journaled on the leading end of the platform and positioned between the leading ends of the upper and lower pairs of chains, a power unit mounted on the platform, and means operatively connecting the power unit to the cutting knives and chains.

2,669,824
DRIVE FOR CORN PICKERS
William J. Dwyer, Battle Creek, Mich., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Original application December 15, 1945, Serial No. 635,256. Divided and this application September 11, 1950, Serial No. 184,323
1 Claim. (Cl. 56—18)



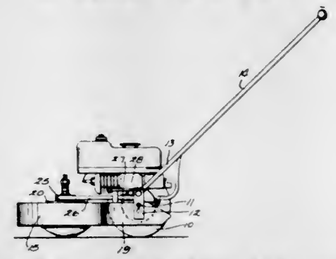
A driving means for use in a corn picker, said corn picker having a drawbar disposed generally in the direction of progress of the corn picker, snapping rolls disposed in a forwardly and downwardly inclined position as related to said direction of progress, a cleaning fan having an axis disposed generally in said direction of progress and an ear elevator having a driving shaft disposed generally normal to said direction of progress; the combination of a drive shaft disposed generally in said direction of progress, a V-belt pulley on said drive shaft, a driven V-belt pulley, spaced from the first-mentioned pulley on a forwardly and downwardly inclined axis, a V-belt connecting said pulleys, a second pulley on said drive shaft, a pulley spaced from said second pulley on an axis extending generally forwardly, a belt connecting the second pulley and the last-mentioned pulley, a bevel gear set on said drive shaft, a cross shaft disposed substantially normal to said direction of progress, and driven from said drive shaft through said bevel gear set, a third pulley on said cross shaft, a pulley spaced from said third pulley on an axis substantially normal to said direction of progress, and a belt connecting the last-mentioned pulleys.

2,669,825
MOWER STRUCTURE
Norman H. Preble, Detroit, Mich., and William A. Goss, Zanesville, Ohio, assignors to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application June 27, 1949, Serial No. 101,518
5 Claims. (Cl. 56—25)



1. Tractor mounted mower structure comprising an elongated drawbar adapted to be mounted at the rear of a tractor, mowing mechanism movably carried by the drawbar, drive mechanism for the mowing mechanism including a drive shaft carried by said drawbar, lift links pivotally secured to the ends of the drawbar and extending forwardly therefrom for connection to a tractor, said drawbar having an upwardly extending arm intermediate its ends, a stabilizing link pivotally secured to the upper end of said arm and extending forwardly therefrom for connection to the tractor, a stabilizing yoke, the upper end of said yoke being slidably connected to an intermediate portion of the stabilizing link, said yoke comprising a pair of downwardly and rearwardly extending diverging arms, and means pivotally connecting the lower ends of said arms to laterally spaced points on the lower portion of said drawbar.

2,669,826
LAWN MOWER OF THE ROTATING SICKLE TYPE
Winston S. Watrous, Milwaukee, Wis.
Application February 16, 1949, Serial No. 77,021
32 Claims. (Cl. 56—25.4)

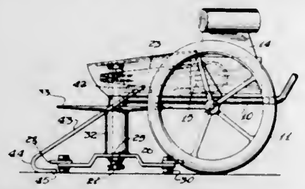


1. In a lawn mower of the type comprising an upright shaft, a transverse cutter arm and a cutting blade mounted on such arm, the combination with such shaft, of a convex shoe and a pivotal mounting for said shoe on which it is disposed for ground contact substantially axially of the shaft and independent of shaft rotation for the support of said arm and blade from the surface traversed.

2,669,827
CUTTING UNIT FOR POWER WEED CUTTERS
Robert L. Brownlee, Mokena, Ill.
Application January 21, 1952, Serial No. 267,413
5 Claims. (Cl. 56—25.4)

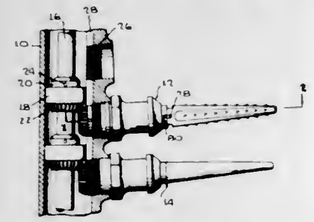
1. In a power weed cutter having a frame and a vertical depending bearing carried thereby, a

cutter shaft rotatable in said bearing and projecting from the lower end thereof, there being a base-incorporating cutter means secured to the lower portion of said shaft and frame-carried drive means for said shaft adjacent the upper end of the latter; the combination of an upstanding hollow and exteriorly uninterrupted



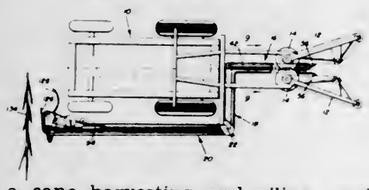
column rising from said cutter base and surrounding said depending bearing, said column terminating short of said frame, and a continuous outwardly extending weed deflecting flange surrounding said column adjacent the upper end thereof below said frame and the cutter shaft drive means whereby to protect the latter and said shaft and its bearing from cut weeds.

2,669,828
COTTON PICKER NEEDLE
James E. Hutchins, Jr., and George T. Comeaux, Greenville, Miss.
Application June 22, 1951, Serial No. 232,968
3 Claims. (Cl. 56—50)



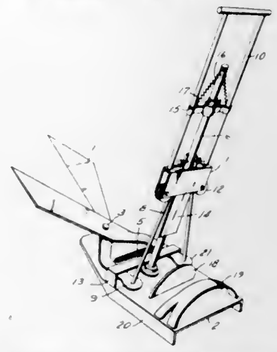
1. In a cotton picker needle assembly, a spindle having a gear on one end for meshing engagement with a gear on a drive shaft, said spindle having a threaded axial socket in its opposing end, a needle, and an axially extending member on one end of said needle having threads thereon engaged in said socket, said one end of the needle and said opposing end of the spindle being in abutting engagement.

2,669,829
CANE HARVESTING AND PILING MACHINE
Joseph M. Pugh, Jeanerette, La., assignor, by direct and mesne assignments, of twenty-five per cent to Lawrence C. Lampo, Jr., Iberia Parish, and twenty-five per cent to J & L Engineering Company, Inc., Jeanerette, La., a corporation of Louisiana
Application February 27, 1953, Serial No. 339,199
12 Claims. (Cl. 56—192)



1. In a cane harvesting and piling machine, a longitudinal discharge conveyor operatively connected to said machine along one side thereof, said conveyor having a front end and a rear discharge end, said conveyor at its rear discharge end extending around a vertical axis to provide a lateral bend, and a deflector blade extending across the discharge end of said conveyor to deposit cane to one side of the medial longitudinal axis of the conveyor and rearwardly of the machine.

2,669,830
GRASS SHEARS WITH PUSH ROD ROLLERS
Carl H. William Kahl, Phoenix, Ariz.
Application January 9, 1953, Serial No. 330,496
2 Claims. (Cl. 56—241)



1. Grass shears comprising a ground-contacting base plate; shears mounted upon said plate by a kingbolt; an upright mast situated between the shear arms and secured at its lower end to the said base plate, two round metal propelling rods hinged by loose bolt connection halfway up the said mast and extending down angularly and outwardly, their lower ends fitting into holes drilled into the ends of the said shear arms; a metal guide bracket fastened to the said base plate to cover the path and to steady the movement of the said shear arms; a double-rod plunger with a two-fist grip handle and a guide bracket slideably mounted on the said mast, one of the said plunger rods being positioned on either side of said mast; two small pulley wheels laterally disposed on axles within a rectangular metal frame attached to the said plunger rods; the said mast being positioned inside the said rectangular frame, one of the said pulley wheels being positioned on either side of said mast, each one of said pulley wheels being provided with a rim groove fitting snugly upon the outer face of one of the said propelling rods, the said wheels being spaced close together within the said rectangular frame and so arranged that downward motion of the said plunger will cause the said wheels to track down on the said diverging rods, closing in on them, forcing the lower ends of the said rods together towards the said mast and causing the said shear arms to close.

2,669,831
GUARD FINGER AND LEDGER PLATE
Albam M. Vik, Karlstad, Minn.
Application February 4, 1952, Serial No. 269,743
1 Claim. (Cl. 56—311)

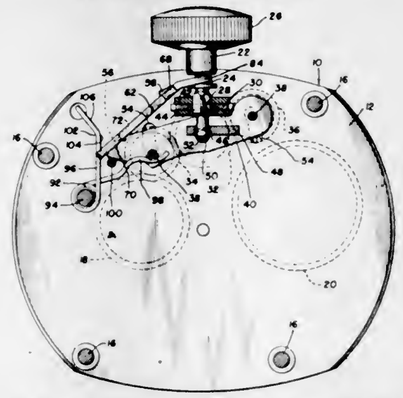
A device of the character described, said device comprising a guard finger comprising a ledger plate, a table formed with a spring recess having a straight vertically arranged rear wall, a transverse rib at the rear of the table and formed with a depressed seat having forwardly converging

under-bevelled end walls, a ledger plate lying on said table over said spring recess with its rear end engaging the depressed seat, lateral extensions on the opposite sides of the rear end of said ledger plate, said extensions having their lateral extremities forwardly converging and bevelled to conform with the end walls of said depressed seat, a spring stop connected with the underside of the plate and having a portion ex-



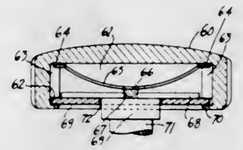
tending rearwardly, and an expanding spring in said spring recess having its front end fitting over the rearwardly extending part of the stop with its rear end engaging the rear wall of the recess, said spring pushing said ledger plate forwardly, said ledger plate having a reduced terminal on its forward end slidably received in a conforming socket formed in said guard finger at the forward end of said table.

2,669,832
WIND AND SET MECHANISM FOR WATCHES
Wilbur T. Harris, Southbury, Conn., William B. Pegram, Swarthmore, Pa., Henry S. Brazee, Terryville, and Louis A. Hummel, Waterbury, Conn., assignors to The United States Time Corporation, Middlebury, Conn., a corporation of Connecticut
Application June 24, 1949, Serial No. 101,176
14 Claims. (Cl. 58—71)



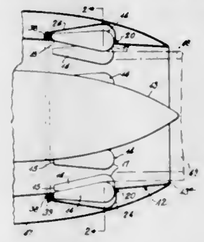
4. In a watch movement, the combination of a frame, a rocking bar and a set lever pivotally supported thereby and having co-engaging releasable locking means, said rocking bar being movable between conventional setting and winding positions and said set lever having a notch in one end thereof, and a longitudinally extending spring engageable with the notch in said set lever and having a bend intermediate its ends to provide a crest and angularly related camming portions sloping away from said crest in opposite directions, one of said portions normally biasing said set lever in a direction to engage said rocking bar to move it into its setting position wherein engagement of said locking means is effected and also releasably maintaining said means in engagement, and the other of said portions when the set lever is moved into engagement with it biasing the set lever away from engagement with said rocking bar to facilitate the movement of said rocking bar toward its winding position.

2,669,833
WATCH WINDING MEANS
Charles Hill, Reno, Nev., and Charles K. Johns, New York, N. Y.
Application April 24, 1951, Serial No. 222,699
2 Claims. (Cl. 58—83)



2. A watch spring winding device comprising a hollow circular winding member presenting an interior annular wall having diametrically opposed slots extending inwardly in said wall from one face of the member, a flexible circular disk closely fitting within the hollow of said member and being arched laterally to provide a pair of opposite high points on the periphery thereof and a pair of opposite low points on the periphery thereof, a drive plate positioned in the hollow of said member axially of said disk and presenting radially disposed recesses, ears in one pair of said points extending into said wall slots, protuberances in the other pair of said points for seating in the recesses of said drive plate under yielding pressure afforded by the arched shape of said disk and spring winding means connected to said drive plate and extending out of said winding member.

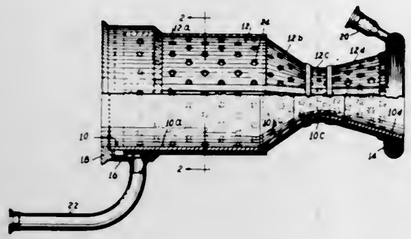
2,669,834
MEANS FOR VARYING THE DISCHARGE AREA OF THE TAILPIPE OF A JET PROPELLED PLANE
Walter C. Helms, Jr., Annapolis, Md.
Application July 19, 1948, Serial No. 39,475
18 Claims. (Cl. 60—35.5)



11. In a jet propelled plane, a tailpipe having a passageway providing a discharge nozzle for a high velocity gas stream; a plurality of regulators carried by said tailpipe; means supporting said regulators for simultaneous projection into said gas stream to vary the area thereof, said regulators decreasing in cross sectional dimension from a portion intermediate the ends thereof toward said ends to produce a Venturi effect in said passageway; and means for simultaneously operating said regulators.

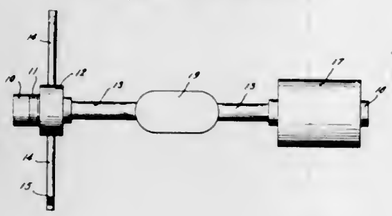
18. A fluid flow regulating device, comprising: a tube having a passageway for fluid, said tube having an elongated opening in the side wall thereof; a regulator; means eccentrically supporting said regulator in said opening for rotation about an axis generally parallel with said passageway; and means for rotating said regulator about said axis to project a portion of said regulator into said passageway.

2,669,835
WALL STRUCTURE FOR REGENERATIVELY COOLED ROCKET MOTORS
David B. Rossheim, Teaneck, and Douglas V. Doane, Maywood, N. J., and Carleton A. Siemer, Staten Island, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application March 4, 1949, Serial No. 79,562
7 Claims. (Cl. 60—35.6)



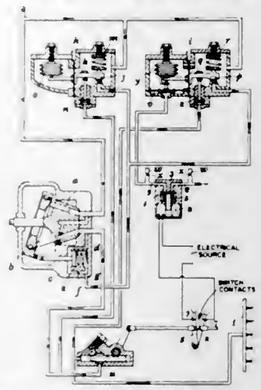
1. A regeneratively cooled rocket motor thrust cylinder comprising a relatively thin sheet material inner shell defining a combustion portion and a thrust nozzle, a relatively thin sheet material outer shell substantially enclosing and concentrically spaced around said inner shell defining an annular passage for a coolant between said shells, means for controlling the supply of a coolant connecting said shells at their ends, and a plurality of spacing protuberances pressed from one of said shells and extending across said annular passage and joining the other of said shells for maintaining a uniform cross-sectional area for said annular passage.

2,669,836
REACTION DEVICE
William G. Abbott, Jr., Milford, N. H.
Application October 15, 1946, Serial No. 703,364
8 Claims. (Cl. 60—35.6)



1. Reaction device comprising a movable vehicle frame, means for supplying gas under pressure, nozzle means mounted on said vehicle frame and adapted to discharge said gas, gas discharge-directing means movable in a circular path past said nozzle means and receiving force of reaction from the discharging gas tangentially of said circular path, and feed back means transferring energy received from the discharge directing means back into the gas flow establishing means thereby to provide a load opposing said circular movement of said discharge-directing means with reference to said frame, said nozzle means being arranged to deliver discharging gas to said discharge-directing means unequally with respect to different portions of said circular path so as to subject said movable vehicle frame to an unbalanced force.

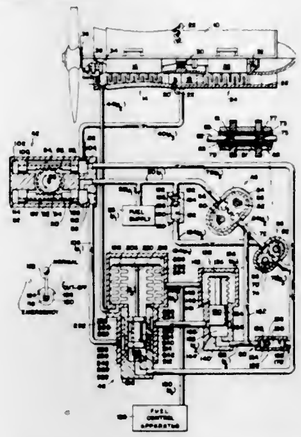
2,669,837
MEANS FOR SYNCHRONIZING AIRCRAFT ENGINES
Thomas Alfred Harris, Edgbaston, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England
Application September 18, 1950, Serial No. 185,349
Claims priority, application Great Britain October 10, 1949
1 Claim. (Cl. 60—39.15)



In combination with the fuel systems of at least two air-craft engines of the jet-propulsion or gas turbine type to which air is supplied by blowers, which systems each comprise a liquid fuel pump, a fuel-air ratio control device responsive at least in part to blower-air pressure, and a throttle for controlling the flow of fuel from the pump to the corresponding engine, means for synchronizing the engines during acceleration thereof, comprising passages which form parts of the systems for conducting air from the blowers to the fuel-air ratio control devices respectively, a balancing passage communicating with the blower-air passages, a normally closed control valve in the balancing passage, an electromagnet for opening the valve, a switch for controlling the electromagnet, and means for simultaneously actuating the switch and the throttles so that the valve is opened under the action of the electromagnet when the throttles assume predetermined positions for accelerating the engines.

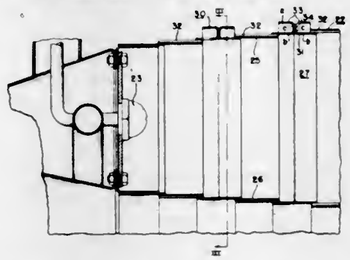
2,669,838
FLUID PUMP CONTROL APPARATUS FOR INTERNAL-COMBUSTION TURBINE ENGINES
Leighton Lee II, Rocky Hill, Conn., assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application September 13, 1946, Serial No. 696,742
40 Claims. (Cl. 60—39.28)

1. Fluid pump control apparatus for a rotating associated therewith a source of fluid, a conduit mechanism having for supplying fluid from said source to said mechanism for rotation thereof, means for rotating said mechanism at a speed determined by the rate of said fluid flow, and a device for producing a control pressure in said apparatus which is a selected function of the desired rate of said fluid flow and hence said speed; comprising: a connection for the flow of fluid from said source to said conduit, a pair of pumps in series in said connection for producing said flow, and means responsive to said control pressure for regulating the respective pressures in said connection between said pumps and in said conduit, so that said fluid flow and the speed of said mechanism are each a selected function of said control pressure.



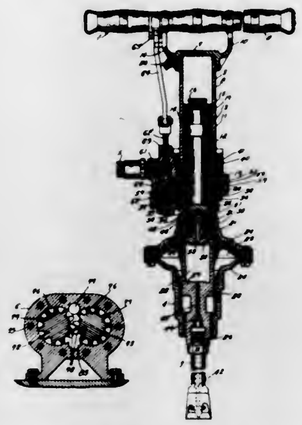
33. Fluid pumping apparatus comprising a pair of pumps connected in series and adapted to receive fluid from a common source and to deliver said fluid to a common discharge conduit under a selected pressure at a selected pump speed; means to regulate the operation of said apparatus so that the total pumping load is normally divided equally between both pumps at all operating speeds; and means for making either pump automatically assume the total pumping load upon complete failure of the other pump.

2,669,839
COMBUSTION APPARATUS
Michael S. Saboe, Norristown, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 17, 1951, Serial No. 246,963
4 Claims. (Cl. 60—39.65)



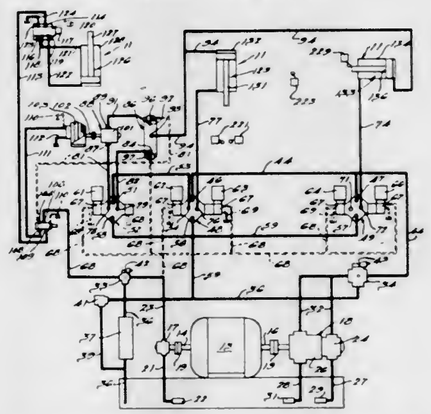
1. Combustion apparatus comprising a spaced diverging outer cylindrical wall assemblage forming a combustion chamber, said wall assemblage including annular wall sections of graduated diameters having longitudinal corrugations formed parallel to the axis thereof, and at least one annular reinforcing unit interposed between such wall sections, said reinforcing unit consisting of a pair of annular channel sections each having radially spaced annular flanges extending longitudinally of the axis, and radially extending webs disposed in engagement and secured together, each channel section having a portion of the radially innermost flange extending into engagement with one of said corrugated wall sections, the outer flanges being free from contact with said elements of the assemblage but serving to augment the stiffening effect.

2,669,840
PULSATOR OPERATED PERCUSSIVE DEVICE
Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 24, 1948, Serial No. 16,775
5 Claims. (Cl. 60—51)



1. In a rock drill, a cylinder, a piston reciprocable in said cylinder and having a striking bar extending through one end of said cylinder, said cylinder having at the other end thereof an energy storing device, and means for supplying pressure to the first mentioned end of said cylinder to move said piston through a substantial distance to effect the storing of energy in said energy storing device sufficient to cause said striking bar to impart a blow of rock-cutting force to a drill bit and for freely venting pressure from said cylinder to permit the striking of such a blow, including for both functions a single intermittent supply, intermediate release, rotary liquid pump.

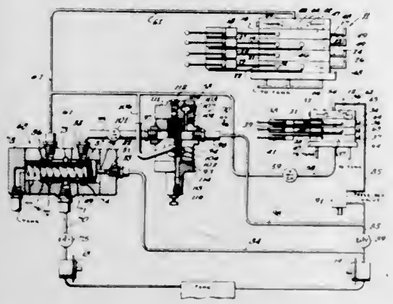
2,669,841
HYDRAULIC FLUID CONTROL PANEL
Otto Mueller, Dearborn, Mich.
Application April 10, 1950, Serial No. 154,909
20 Claims. (Cl. 60—52)



1. A self-contained device for supplying hydraulic fluid at a plurality of pressures including, in combination, a tank containing a fluid, a pump for supplying fluid from said tank, a booster act-

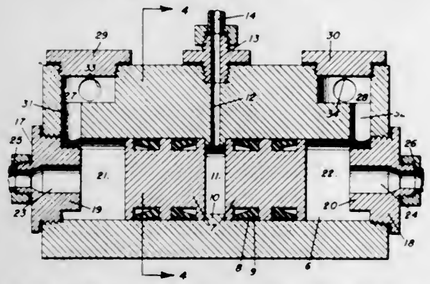
ing upon and driven by the fluid from the pump for continuously supplying fluid at increased pressure, and a valve through which the fluid from said pump and said booster is delivered to perform work at pump and booster pressures, said valve being shifted by pump pressure.

2,669,842
EMERGENCY OPERATED DUAL PRESSURE HYDRAULIC SYSTEM
Joseph J. Slomer, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 31, 1951, Serial No. 218,609
13 Claims. (Cl. 60—52)



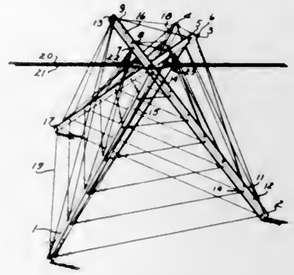
3. In a fluid pressure system, a low pressure small volume fluid motor having a control valve therefor, a high pressure large volume fluid motor having a control valve therefor, a pair of pumps adapted to supply pressure fluid to said system with substantially no back pressure when both of said control valves are in a neutral or off position, a fluid pressure conduit connecting the first of said pumps to said high pressure fluid motor, and a second fluid pressure conduit connecting the second of said pumps to said low pressure motor, a valve responsive to the pressure from said second pump for maintaining the back pressure against the said first pump at a minimum when the low pressure motor is being operated by said second pump.

2,669,843
SAFETY DEVICE FOR HYDRAULIC BRAKES
Samuel G. Broadway, Columbia, Tenn.
Application September 22, 1952, Serial No. 310,853
2 Claims. (Cl. 60—54.5)



1. A safety device for hydraulic brake systems of motor vehicles comprising a casting having a cylinder extended therethrough, a plug threaded in each end of the cylinder, each plug having a passage adapted for connecting to one set of wheel cylinders of the brake system, a pair of pistons working in the first named cylinder, an internal annular stop flange at the center of the first named cylinder engaged by and limiting inward movement of the pistons and forming a central chamber between the pistons, a brake applying fluid pressure line leading to said chamber to subject said pistons to brake applying pressure, filler chambers in the top of the casting, passages leading from the filler chambers to the outer portions of the first named cylinder, filler plugs in the top of said filler chambers, bleed plugs in the side of said filler chambers at a point immediately below the filler plugs, and stops limiting outward movement of the pistons to prevent closing of said last named passages by the pistons.

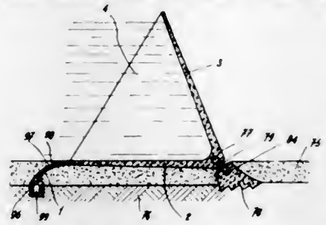
2,669,844
JETTY
George W. Rehfeld, Manhattan, Kans.
Application March 15, 1951, Serial No. 215,762
1 Claim. (Cl. 61—3)



A jetty comprising three angle members, each having substantially right angular flanges provided with a series of apertures arranged along the length of said flanges and with the apertures in one flange staggered with respect to the apertures in the outer flange, two of said members being crossed near upper ends thereof to provide relatively long downwardly diverging leg portions and shorter upwardly diverging arm portions, said members being positioned with one flange of one member in face contact with a flange of the other member and an aperture of each of said flanges in registering relation, said other flanges forming a substantially right angular crotch shaped seat at said crossing point, said third member having the flanges thereof engaged in said seat, said flanges thereof being in contact with said seat forming flanges and with apertures in said flanges in registry, fastening devices extending through all of said registering openings to secure the members together, and lacing extending through other apertures in the flanges of said members, said third member having a relatively long leg portion forming a single prop for supporting said two members with the lacing therebetween positioned for forming an abutment face to a stream in which the jetty is to be installed.

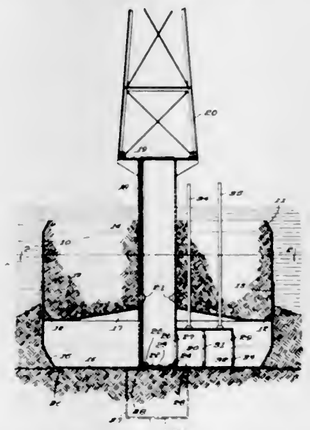
2,669,845
DAM
Eugène Freyssinet, Neuilly-sur-Seine, France
Application June 29, 1948, Serial No. 35,785
Claims priority, application France July 4, 1947
5 Claims. (Cl. 61—30)

1. A dam comprising a head water wall, a bottom slab integral with said wall on its upstream side and resting freely on the ground, the connection between said wall and said slab forming an acute angular edge portion, and an oblique abutment structure anchored in the ground against downstream displacement and bearing against



said angular edge portion, on the downstream side thereof.

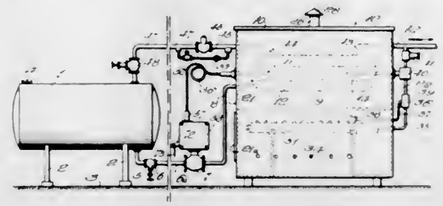
2,669,846
SUBMERGED WELL DRILLING EQUIPMENT ANCHORING MEANS
Joseph Shannon, Beaumont, Tex.
Application August 23, 1949, Serial No. 111,857
1 Claim. (Cl. 61—46)



A submerged well drilling apparatus comprising a barge having a flat bottom and a vertically extending hull, said hull extending peripherally inwardly adjacent the top thereof, said barge also having a deck below the top of said hull, sloping towards said hull from a central point, and a plurality of openings in the hull for the discharge of ballast therethrough arranged adjacent said deck, closures for said openings, a vertically disposed caisson extending upwardly from said base and through said deck, a platform mounted on the upper end of said caisson for supporting a derrick, there being an opening in said base directly below said caisson, a door mounted for movement into and out of closing relation with respect to said last named opening, a latch for retaining said door in closed position, there being an opening in said caisson adjacent the lower end thereof, a pair of pressure compartments arranged in said barge below said deck, and pipes for supplying compressed air to said compartments.

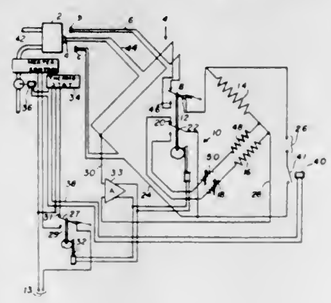
2,669,847
METHOD AND APPARATUS FOR VAPORIZING AND DISTRIBUTING HYDROCARBON FUELS
Wade W. Dick, Shreveport, La.
Application December 29, 1950, Serial No. 203,275
13 Claims. (Cl. 62—1)

1. A gas generating and distributing system comprising a storage tank for supplying liquid hydrocarbon, a vaporizer including a container for enclosing a fluid, a tank disposed within said container in a position substantially covered by the fluid within said container, connections between said tank and said storage tank, a gas distributing pipe line connected with said tank, a gas burner tapped from said gas distributing



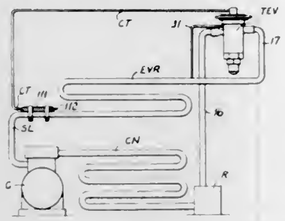
pipe line and operative beneath said fluid bath, the fluid in said container having a boiling point substantially above 212° F. and thermostatic means associated with said tank and submerged below the fluid level in said tank for controlling the supply of liquid hydrocarbon to said tank concurrently with the vaporization and distribution thereof to said distributing pipe line.

2,669,848
AUTOMATIC REFRIGERATING DEFROSTING CONTROL
Minoru Fujii, Washington, D. C.
Application October 21, 1952, Serial No. 315,917
7 Claims. (Cl. 62—3)



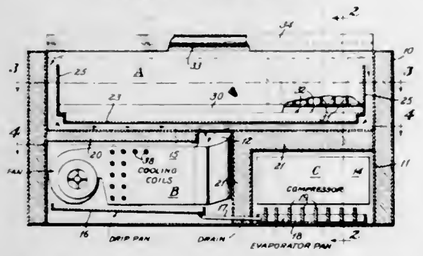
1. The method of automatically defrosting of a refrigerator cooling unit upon which ice tends to form which comprises detecting the temperature difference between a first locus removed from the surface of said cooling unit by the maximum distance to which frost is permitted to extend and a second locus, further from said cooling unit, converting said temperature difference into a first electrical parameter; initiating defrosting action when said first electrical parameter attains a predetermined magnitude representing the extension of frost formation to said first locus; detecting the temperature difference between a locus immediately adjacent the surface of said cooling unit and a more remote location from said cooling unit; converting the last said detected temperature difference into a second electrical parameter; transferring control of the defrosting action from said first electrical parameter to said second electrical parameter; ceasing said defrosting action when said second electrical parameter attains a predetermined magnitude representing elimination of frost from said surface; and reestablishing the initial control conditions.

2,669,849
REFRIGERANT FLOW CONTROL
Harold T. Lange, Webster Groves, Mo., assignor to Sporlan Valve Co. Inc., St. Louis, Mo., a corporation of Missouri
Original application October 9, 1947, Serial No. 778,814, now Patent No. 2,573,151, dated October 30, 1951. Divided and this application August 20, 1951, Serial No. 242,657
3 Claims. (Cl. 62—8)



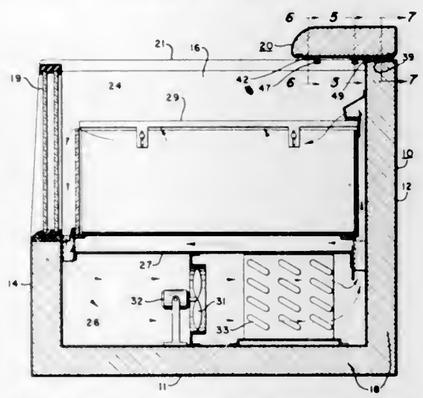
1. The combination in a compressor-condenser-evaporator refrigeration system, of a thermostatic expansion valve arranged to control the flow of refrigerant to the evaporator, and comprising thermal responsive means arranged to act in accordance with suction line temperature for operating the expansion valve, said means including a thermal-sensitive container consisting of a coil of a thin-wall tubing, the coil being located and arranged to be heated and cooled from the suction line, said coil being charged with a volatile and expansive fluid, and a mass constituting a core within the coil and having restricted thermal communication with the coil tubing, the material of said mass possessing a greater heat capacity than the material of the coil, the mass being of such nature and so related to the coil as to effect markedly differential rates of valve opening and closing action in response, respectively, to increases and decreases of suction line temperatures.

2,669,850
REFRIGERATED OPEN TOP COMPARTMENT
Robert H. Bishop, Champaign, Ill.
Application November 14, 1951, Serial No. 256,203
3 Claims. (Cl. 62—89.5)



1. A refrigeration system comprising an open top storage compartment and an outer cabinet, the storage compartment being spaced inwardly from the cabinet, a compressor unit, an air cooling unit, housings for each, a manifold communicating with the cooling unit and extending along one side of the cabinet, a vertical duct, a plurality of orifices in the manifold, communicating with the duct, vertical dividers in the duct between said orifices, a splitter to direct a portion of the air from the vertical duct downwardly and outwardly through and across the storage compartment, means spaced above the splitter to direct the remaining air downwardly and outwardly through and across the storage compartment, the walls of the cabinet extending above the walls of the storage compartment and spaced outwardly therefrom, means spaced from the bottom of and separating the storage compartment from said housings, thereby forming an annular space between the walls of the cabinet, said last named means, and the walls and bottom of said storage compartment, a duct from said last named means communicating between the annular space and the cooling unit housing, means to draw air through said annular space, the last named duct and the housing of the cooling unit and to force it through the cooling unit and thence to the manifold.

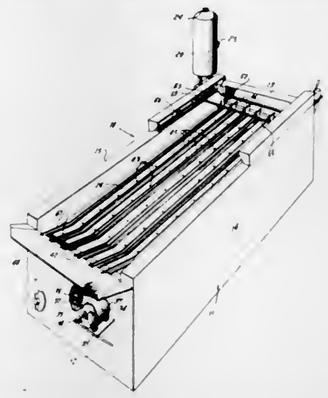
2,669,851
OPEN TOP DISPLAY CASE WITH SLIDABLE HOOD
Joseph R. Pichler, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application February 23, 1952, Serial No. 272,997
11 Claims. (Cl. 62—89.5)



1. A self-service refrigerated display case comprising in combination, a bottom wall, a rear wall, a front wall and end walls forming an elongated open top compartment in said case, a food supporting device inset within said compartment, means for cooling air in said case, means for circulating the cooled air over food products on said device, an insulated unitary hood structure on said case extending continuously throughout the length thereof with its ends engaging and supported by said end walls, said hood structure projecting from said rear wall to normally cover the back portion of the open top of said elongated compartment between said front and rear walls, and said hood structure being movable along said end walls in a direction toward said front wall to open the normally covered portion of said compartment open top and provide access to said food supporting device over said rear wall from in back of said case.

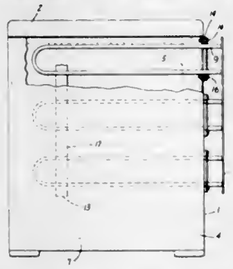
2,669,852
REFRIGERATING APPARATUS FOR PRODUCING FROZEN CONFECTIONS
Larry J. Nauroth, Dallas, Tex.
Application July 27, 1951, Serial No. 238,867
4 Claims. (Cl. 62—114)

1. A confection refrigerating apparatus comprising a tank adapted to contain a refrigerant liquid and having insulated side and end walls; a perforate deck disposed under the surface of the liquid in said tank and spaced at its ends from the end walls of said tank to form liquid circulating passageways at both ends of the deck; means disposed in the tank below the deck for cooling said refrigerant liquid, a vertical partition depending into said tank from one end of said deck between said refrigerant cooling means and one end of said tank to define one of said passageways, said vertical partition having an opening therein, a series of transversely spaced



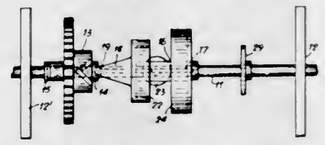
guides disposed longitudinally on the deck for progressively receiving articles to undergo heat exchange; and means in the opening of said vertical partition for circulating the refrigerant liquid from above the deck through one of said passageways below the deck and upwardly through the other of said passageways and the perforations of said deck to above said deck and into contact with the undersides of the articles on said guides.

2,669,853
REFRIGERATED CABINET HAVING MOVABLE CONDENSER
William G. Spiegelhalter, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application January 5, 1952, Serial No. 265,085
6 Claims. (Cl. 62—117.2)



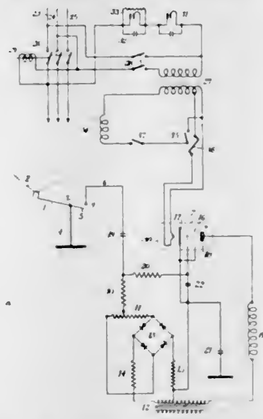
1. A refrigerated cabinet including an outer wall, an inner wall spaced from said outer wall, said outer wall including a rear portion and two side portions, a condenser spaced from said rear portion of said outer wall, said condenser comprising a flat sheet and a continuous refrigerant-conducting conduit arranged in serpentine form and secured to said sheet, said conduit including sections extending forwardly from said sheet at each end thereof, each of said sections being disposed in heat exchange contact with a corresponding one of said side portions of said outer wall.

2,669,854
STRAIGHT BAR KNITTING MACHINE
Kurt Willi Wickardt, Liverpool, England, assignor to Hosemaster Machine Company Limited, Liverpool, England, a British company
Application March 24, 1951, Serial No. 217,353
Claims priority, application Great Britain March 27, 1950
14 Claims. (Cl. 66—82)



1. In a straight bar knitting machine for knitting full fashioned hosiery including at least one intermittently operated element driven in a given direction and means to drive said element, the provision of a clutching device adapted to afford a gradual but positive acceleration of said intermittently operated element in said given direction to bring it into a given phase relationship with said driving means, said clutching device including a driving member and a driven member, one of said members having an abutment of gradually changing direction including a portion directed substantially at right angles to said given direction whilst the other of said members has a withdrawable element adapted to engage said abutment, means being provided for bringing said withdrawable element and said abutment into engagement by producing a condition of relative motion therebetween which motion includes a component in said given direction.

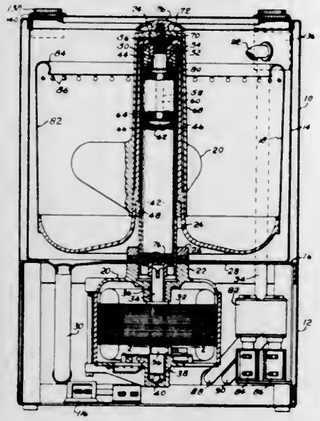
2,669,855
YARN-CONTROLLED STOPPING DEVICE FOR KNITTING MACHINES
Bernard Lebocey, Troyes, France
Application November 20, 1951, Serial No. 257,248
Claims priority, application France November 24, 1950
5 Claims. (Cl. 66—163)



1. A device for automatically stopping a knitting machine whenever the yarn happens to be broken, which device comprises an electronic relay of the gaseous atmosphere type, an electromagnet adapted to stop the knitting machine when energized and having its energizing circuit inserted in the anode circuit of said relay, means for causing a continuous negative biassing of the grid of said relay, and a drop wire having

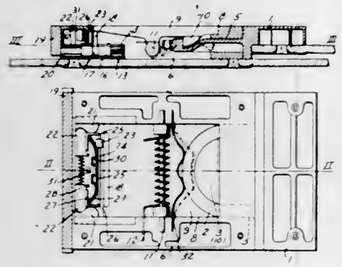
a rest on the yarn and adapted to cause an instantaneous variation of the potential of the grid whenever said rest comes to fail.

2,669,856
WASHING MACHINE WITH INDUCTION MOTOR DRIVE
Earl C. Williams, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application September 15, 1951, Serial No. 246,759
11 Claims. (Cl. 68—12)



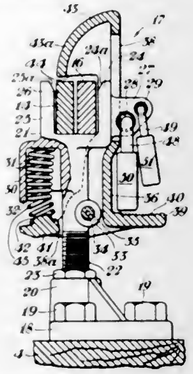
1. A washing machine comprising, in combination, a centrifuging tub, an oscillatable agitator concentrically arranged therein and rotatable relative thereto, a reversible induction motor, a resilient coupling having its ends connected between said motor and tub, means drivably connecting said agitator to said coupling at a point intermediate the ends thereof, and means for converting oscillatory rotation of said motor to continuous rotation thereof.

2,669,857
LOCKING DEVICE FOR BAGS, TRUNKS, AND THE LIKE
Wolfgang Ramien, Neckargemund, Germany
Application September 6, 1950, Serial No. 183,327
4 Claims. (Cl. 70—67)



2. A locking device for bags, trunks and the like, comprising a body member adapted to be secured to a bag and having a slot for receiving a keeper secured to the closure portion of the bag, a latch bolt pivotally mounted in said body member and adapted to engage said keeper, a spring connected with said latch bolt and body member for biasing said latch bolt to keeper-engaging position, a plurality of tumblers in said body member having gatings, a fence carried by said latch bolt and adapted to fit into said gatings when said gatings are alined therewith, said tumblers being in the path of said fence when said latch bolt is in the keeper-engaging position, a key connected with said body member and having projections engaging said tumblers and maintaining said tumblers in positions in which said gatings are alined, a holding pin carried by said key, a bolt located in said body member and gripping said holding pin to hold said key to said body member, and a spring pressing said bolt.

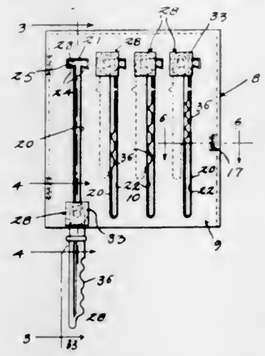
2,669,858
RAILWAY SWITCH LEVER LATCH STAND
Herbert L. Bone, Forest Hills, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application October 28, 1950, Serial No. 192,659
10 Claims. (Cl. 70—196)



1. A lever latch stand for locking two movable levers against movement comprising, a member having a recess for receiving both of said levers, a latching member biased to a latching position, said latching member comprising a latch portion substantially overlying said recess to prevent movement of said levers out of said recess when said latching member is in its latching position; means for moving said latching member to an unlatched position to permit withdrawal of said levers from said recess, and means for locking said latching member when said latching member is in its latching position, said locking means including means permitting limited movement of said latching member away from its latching position to permit movement of one of said levers out of said recess.

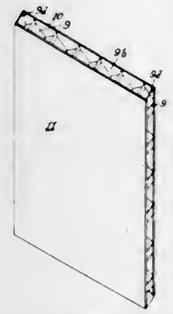
2,669,859
KEY CASE
William E. Hudson, Jr., Vicksburg, Miss.
Application May 4, 1951, Serial No. 224,618
3 Claims. (Cl. 70—456)

2. A key case comprising a substantially rigid body portion formed of hingedly connected sections including a front wall, a closed end and an open end, latch means normally latching the body portion sections in a closed position, said front wall having a plurality of transversely spaced slots extending to adjacent the open and closed ends of the body portion, a key supporting and actuating unit slidably engaging each of said slots and detachably connected to said front wall, each of said units being adapted to detachably mount a key on the inner side of said front wall and movably within the body portion toward and away from its closed end, each of said key supporting and actuating units including a stem having a threaded end extending outwardly through the associated slot of the front wall and a fixed collar secured around the stem adjacent said threaded end and disposed slidably against the inner side of the front wall, said stem having a threaded portion adjacent its opposite end, a collar detachably threaded to said last mentioned threaded stem portion and adapted to co-



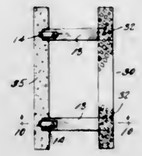
operate with said fixed collar for retaining the key on the stem between the collars and on the inner side of said front wall, said first mentioned threaded end of the stem being slidably disposed in said slot, and a knob threadedly connected to said first mentioned threaded end of the stem and engaging slidably against the outer side of said front wall for slidably and detachably mounting the key supporting and actuating unit on the front wall.

2,669,860
HOLLOW PLASTER BUILDING PANELS AND METHOD OF MAKING
Percy Fred Bell, Walton-on-Thames, England, assignor of one-third to Norman Greenlees Weir Loudon and one-third to Sound City (Films) Limited, both of Shepperton, Middlesex, England
Application January 10, 1946, Serial No. 640,192
Claims priority, application Great Britain January 31, 1945
14 Claims. (Cl. 72—16)



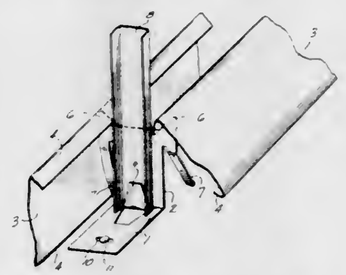
1. A preformed monolithic building panel comprising, spaced facing sheets composed of gypsum plaster having an embedded layer of scrim extending over the area of each sheet, a monolithic core integral throughout between said facing sheets and composed of a series of rows of similarly undulated superposed partitions of scrim impregnated and coated with gypsum plaster with the series of rows integrally interconnected at spaced areas along the lengths of each partition and thus forming walls defining cells open at opposite ends, the axes of the cells lying parallel to one another and transversely of the plane of the facing sheets and the otherwise open ends and the adjacent wall portions of the cells being embedded to a substantial extent in and integrally united to the plaster of the respective facing sheets so that the core ties together the facing sheets with the core and sheets mutually reinforcing one another and the cell ends being covered by the sheets.

2,669,861
WALL BUILDING UNIT
Elmer S. Clutter, Canonsburg, Pa.
Application February 10, 1950, Serial No. 143,552
1 Claim. (Cl. 72—43)



A device of the character described comprising a panel formed of a slab of plastic material, a panel formed of sheet material having inwardly directed flanges, struts interconnecting said panels in spaced parallel relation, and means carried by said panels affixing said struts in position, said means including a pair of vertical grooves formed in the inner face of the plastic panel and receiving one end of each of the struts, ties each having a portion embedded in the plastic panel adjacent an end of one of the grooves and a second flat portion extending inwardly from the first portion over the strut projecting into the adjacent groove, each second portion provided with an integrally formed spur penetrating the adjacent strut, and spurs formed integrally with the flanges and penetrating the ends of the struts adjacent thereto.

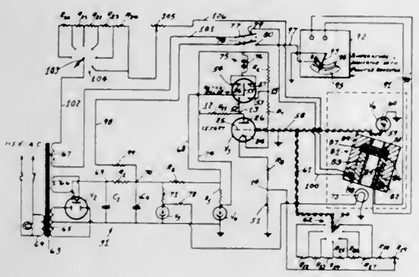
2,669,862
WALL BASE CLIP
Reginald M. Miller, Milwaukee, Wis., assignor to Inland Steel Products Company, Milwaukee, Wis., a corporation of Delaware
Application December 22, 1952, Serial No. 327,222
3 Claims. (Cl. 72—46)



1. An assembly clip as for holding a sheet metal wall base having locking grooves formed by upper and lower reversely bent flanges, said clip comprising a formed sheet metal single member including a flat foot section adapted to be secured to a horizontal foundation and a flat

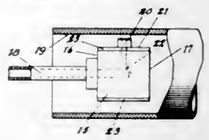
upright section joined to one edge of said foot section and extending at right angles thereto, the upper edge of the upright section having at least one upper ear positioned thereon, said upper ear lying in the plane of the upright section, the outer side edge of said upper ear being coextensive with the side edge of said upright section, a locking arm formed from the material of said upright section positioned beneath said upper ear, the upper extremity of said arm joined to said upright section along a line substantially parallel to said one edge of said foot section, the outer edge of the locking arm being coextensive with said outer side edge of said upper ear and said side edge of said upright section, said locking arm being angularly disposed with respect to the upright section and said side edges of said upper ear, locking arm and upright section being disposed in a plane normal to said edge of said foot section, the lower extremity of said locking arm forming a lower ear and being disposed above the plane of said flat foot section, said upper ear being adapted for engagement with the upper locking groove of said wall base and said locking arm being adapted to be bent downwardly to engage the lower groove of said wall base to lock said wall base to said clip.

2,669,863
APPARATUS FOR MEASURING THE MELTING POINT OF FUSIBLE MATERIALS
Justin J. Shapiro, Hyattsville, Md., assignor to American Instrument Company, Inc., Silver Spring, Md.
Application July 11, 1951, Serial No. 236,167
12 Claims. (Cl. 73—17)



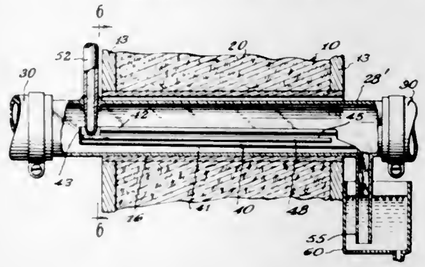
1. An apparatus for determining the melting point of a sample of fusible material comprising a block member formed with a passage therethrough, transparent sample-retaining means in said block member extending across said passage, a heater in heat-transmitting relation to said block member, a temperature-responsive element in said block member, a light source adjacent said passage at one end of the block member, a light-responsive element adjacent the other end of said passage, a temperature indicator connected to said temperature-responsive element, said indicator having a movable indicating element, means on said indicator for locking said movable element, circuit means operatively connected to said locking means and controlled by said light-responsive element, and means whereby said circuit means actuates said locking means when a substantial change occurs in the transmission of light from the light source to the light-responsive element through the sample-retaining means, whereby the melting temperature of a sample of fusible material in the sample-retaining means may be determined.

2,669,864
PNEUMATIC BORE GAUGE
Oswald C. Brewster, Litchfield, Conn.
Application January 8, 1948, Serial No. 1,085
13 Claims. (Cl. 73—37.5)



1. For a pneumatic gage, a gaging head small enough to fit within the bore to be gaged, said head having a set of four diagonally opposed contact corners projecting therefrom, the corners being disposed axially of the head as the defining points of a quadrilateral figure which is inclined with respect to the axis of the bore to be gaged when the head is in a tilted position to bring the four corners into contact with the wall of the bore, and a fluid outlet located at one side of the head to form with the wall of the bore a fluid escape orifice of size dependent upon the dimension of the bore when the four corners of the head are in contact with the bore wall.

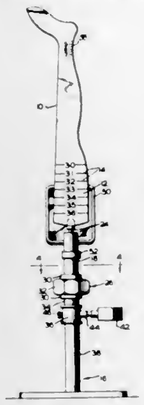
2,669,865
APPARATUS FOR TESTING OILS FOR GUM, VARNISH, SLUDGE, AND CORROSION
Joseph Cole, Whiting, Ind., and John Krawetz, Evanston, Ill.
Application January 26, 1950, Serial No. 140,726
4 Claims. (Cl. 73—64)



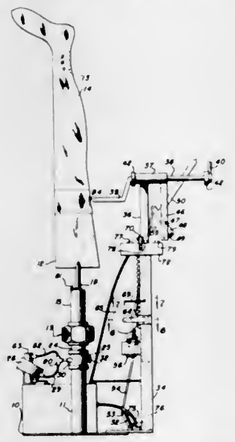
1. In a laboratory apparatus for the evaluation of constituents of oils under test, a furnace body, an inclined conduit through which oil under test is adapted to be passed extending through said body, heating coils surrounding said conduit, a specimen holder container in said conduit, and a specimen holder in said container, said specimen holder comprising a relatively thin, elongated, dished plate deformed to provide a supporting surface of relatively small contact area whereby said plate may be positioned above its supporting surface to permit air circulation thereabout.

2,669,866
HOSIERY LENGTH MEASURING DEVICE
Mark N. Holmes, Burlington, N. C., assignor to Burlington Mills Corporation, Greensboro, N. C., a corporation of Delaware
Application June 2, 1952, Serial No. 291,173
6 Claims. (Cl. 73—89)

1. A hosiery length measuring device comprising: a hosiery form having length indicia on the welt area thereof; means for yieldably supporting said form from the welt end thereof for longitudinal movement; and force measuring means responsive to movement of said form on said support means for measuring the longitudinal force applied to said form by a longitudinal stretching force applied to the welt edge of a stocking thereon.



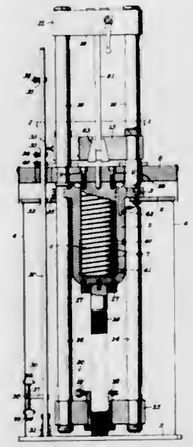
2,669,867
HOSIERY LENGTH MEASURING DEVICE
Mark N. Holmes, Burlington, N. C., assignor to Burlington Mills Corporation, Greensboro, N. C., a corporation of Delaware
Application December 4, 1952, Serial No. 324,061
9 Claims. (Cl. 73—89)



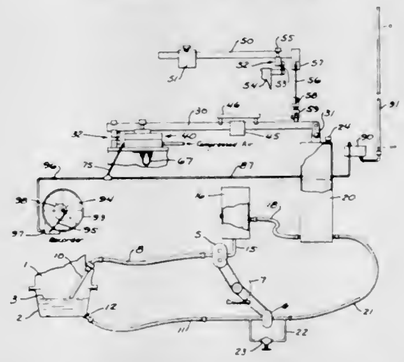
1. A hosiery length measuring device comprising a yieldably mounted hosiery form, power means for applying stretching force to a stocking positioned on said form, means responsive to movement of said form for automatically deactivating said power means when a predetermined force has been applied, and means responsive to operation of said power means for indicating the length of said stocking in stretched condition.

2,669,868
UNIVERSAL MATERIALS TESTING MACHINE
Harold M. Shneider, Stamford, Conn., assignor to Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania
Application April 17, 1950, Serial No. 156,313
7 Claims. (Cl. 73—93)

1. A materials testing machine comprising, in combination, a frame, a vertically extending cylinder supported thereby, a ram disposed within said cylinder, a movable loading platen secured to the upper end of the ram, a normally stationary platen disposed over the upper end of said ram in opposed relation to the movable platen, tension columns connected to said normally stationary platen and extending downwardly alongside of said cylinder, a crosshead connecting the lower ends of said tension rods, a screw rigidly formed with the cylinder, a nut supported by said crosshead and threaded on said screw, and means whereby said nut and screw may be relatively rotated to effect vertical adjustment of the normally stationary platen.



2,669,869
APPARATUS FOR GAUGING CONSUMPTION OF OIL OR OTHER LIQUID
Milton N. Weber, Detroit, Mich., assignor of one-half to Herbert W. Link, Detroit, Mich.
Application September 21, 1949, Serial No. 116,954
5 Claims. (Cl. 73—113)



5. In an apparatus for gauging consumption of oil by an internal combustion engine, a flow system including a conduit having an inlet end adapted to be temporarily disposed in the crank case at the level of the oil to be maintained in the crank case, a pump for pumping oil out of the crank case through said conduit, a second conduit adapted to be temporarily connected into the crank case, a second pump for pumping oil back into the crank case through said second conduit, a tank in the system positioned to receive oil from the first mentioned pump and to

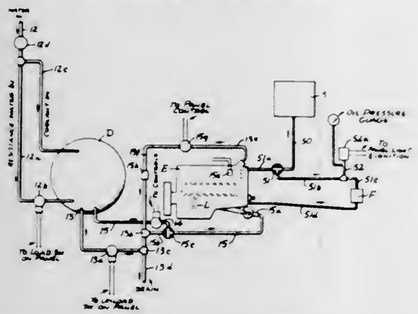
pass oil to the second mentioned pump and in which the oil is maintained at a level which is dependent upon the total quantity of oil in the crank case and in the system, means for dampening impulses from the first mentioned pump to minimize disturbance of the oil in the tank, said first named pump having a capacity greater than the second named pump whereby to insure maintenance of the oil at a fixed level of the crank case, a balance arm from which the tank is suspended, a fulcrum for the balance arm, pneumatic load balancing means for supporting the balance arm arranged and constructed so that the arm is balanced by air pressure with the air pressure varying with variations in the quantity of oil in the tank, and gauging means for constantly indicating the balancing air pressure to thereby indicate variations in the amount of oil in the tank during engine operation.

2,669,870

PRODUCTION DYNAMOMETER

Harold L. Bennett, South Bend, Ind., assignor, by mesne assignments, to Clayton Manufacturing Company, El Monte, Calif., a corporation

Application September 24, 1949, Serial No. 117,697
17 Claims. (Cl. 73—116)



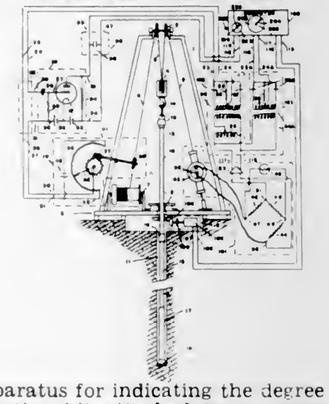
8. Mechanism for testing an internal combustion engine which itself incorporates a throttle element settable to regulate its fuel supply, a lubricating system including an oil pump for circulation of lubricant, a cooling system including a water pump for circulation of coolant, an electrical ignition system, and an exhaust conduit, which testing mechanism comprises: a fixed base, an engine stand mounted on said base, and including engine-mount elements for temporarily supporting an engine to be tested in a predetermined position, a control stand mounted on said base for shifting towards and from an engine so mounted and positioned, a dynamometer mounted on said control stand, coupling means to connect the engine's shaft with the dynamometer upon shifting of the control stand into operative position relative to an engine so mounted and positioned, a throttle-controlling device operatively engageable with the engine's throttle element when the control stand is so shifted, an oil supply conduit arranged for quick and temporary connection to and disconnection from the engine and its lubricating system and oil pump, a water supply conduit similarly arranged for quick and temporary connection to and disconnection from the engine's cooling system and water pump, electrical leads arranged for connection from an external source to the engine's ignition system, an exhaust lead-off conduit arranged for quick and temporary connection to and disconnection from the engine's exhaust conduit, whereby, after making such connections and initiating operation of its own oil and water pumps and ignition system, respectively, the engine will continue to function through the medium of its own lubricating system, cooling system, ignition system, and throttle element; means to sense malfunctioning of the engine's own lubricating system and of its own cooling system, respectively, means to sense low torque as delivered through the dynamometer, means on the control stand responsive automatically to departure from a norm as sensed by each such sensing means, to indicate such departure, timer means driven independently of said sensing means, and of the engine being tested, and operatively connected to said throttle-controlling device, to set the throttle element of the engine at different predetermined settings at predetermined intervals, in the absence of any departure from a norm, and means automatically operable by any such departure, as sensed by any of said sensing means, to interrupt the normal operation of the engine's ignition system through said electrical leads, and of said timer means.

2,669,871

WEAR OF BIT INDICATOR

Arthur Lubinski, Tulsa, Okla.

Application March 29, 1949, Serial No. 84,215
12 Claims. (Cl. 73—151)



1. Apparatus for indicating the degree of wear of a rotating bit attached to a rotary drilling string, comprising means for providing a signal representing the rate of downward progress of the bit, a weight responsive means for producing a signal representing a function of the weight applied to the bit, a computer for combining said signals to produce a resultant signal representing the quotient of said second signal over said first signal, said resultant signal representing the rate of wear of the bit and varying with time, said computer including an integrator for integrating said resultant signal with respect to time.

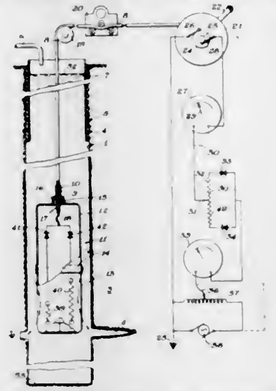
2,669,872

DETECTION OF FLUID MOVEMENT IN WELLS

Dale G. Hartweg, Tulsa, Okla., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application June 17, 1952, Serial No. 293,961
3 Claims. (Cl. 73—155)

1. An apparatus for detecting the movement of fluid in a well hole comprising a fluid-tight case adapted to be positioned in a column of fluid in the well; a cable for suspending the case in the well, said cable comprising a single insulated conductor and a metallic sheath therefor; two thermally sensitive electrical resistance heating elements one having a greater surface area than the other mounted on and insulated from the case in position to be contacted by the fluid of the column whereby a flow of fluid past the heating elements changes the temperature and consequently the electrical resistance of one more than the other; means for supplying heating current to each of the heating elements through the said insulated conductor, said means for supplying heating current comprising an above ground source of A. C. and half-wave rectifier means both above ground and in the case for directing the positive pulses of the A. C. through only one of the two heating elements and the negative pulses only through the other; a voltage divider having its end terminals connected with the above ground one-half wave rectifier means and its movable terminal connected to the rectifier means in the case, said voltage divider being capable of changing the ratio of the magnitude of the positive pulses to the magnitude of the negative pulses to a predetermined value whereby a change in the ratio is indicative of a greater change of resistance of one of the two heating elements compared to that of the other; and D. C. current measuring means connected in series with the said movable terminal and the half-wave rectifier means in the case for indicating the said ratio.

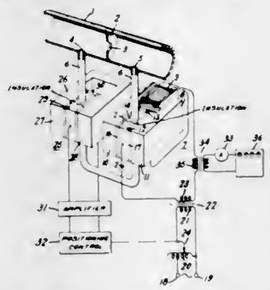


2,669,873

FLOWMETER

George F. Gardner, Scotia, and Theodore A. Rich, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application March 22, 1950, Serial No. 151,141
10 Claims. (Cl. 73—205)



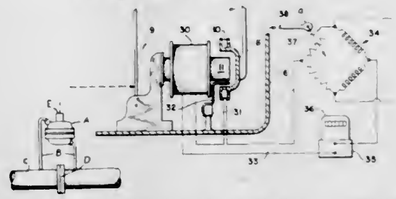
1. In combination, means defining a fluid passageway to contain an electrically conductive fluid, an electromagnetic pump formed by an electromagnet comprising a core member having extensions therefrom defining a pair of pole pieces that surround a portion of the passageway, a pair of current electrodes disposed on opposite sides of said portion of the passageway and contacting the fluid flowing therethrough, and a current supply winding surrounding said core member, the electromagnetic pump thus comprised serving to provide a differential fluid pressure through said passageway, means to supply electric current to said current supply winding and said current electrodes, the amount of such differential pressure being related to the amount of such current, means responsive to fluid flow within said passageway for adjusting the value of such current to control the differential pressure provided by said pump substantially to prevent such flow, and indicating instrument means coupled to said current supply means for deriving an indication of the current flow.

2,669,874

FLUID FLOW METERING AND INTEGRATING INSTRUMENT AND THE LIKE, WITH ZERO STABILIZER

Horst Ziegler, Berlin, Germany, assignor to Askania-Werke A.-G., a corporation of Germany

Application October 17, 1950, Serial No. 190,454
Claims priority, application Germany October 29, 1949
3 Claims. (Cl. 73—206)



1. In a metering system using a condition responsive actuator yielding a force proportional to the square of the condition to be metered, such as a differential pressure type flow metering system, a square root extracting and zero stabilising transmitter, comprising an electrodynamic system of at least one stationary coil and a cooperating core and a least one movable coil; a circuit including said coils and connected to control a remote meter integrator of the ampere hour type; a variable resistor connected to control the circuit; a movable part connected to be moved by and in response to the square-proportional forces applied thereto by the actuator and oppositely directed forces applied by the electrodynamic system, the movable part also being connected to vary the resistor and thereby to balance itself; and a small stationary magnet, having a pole adjacent the core of the stationary coil and facing the movable coil, so that when a zero force is applied by the actuator to the movable part, that part is balanced by the mutually opposed effects of (1) the mechanical force of the magnetic circuit between the small magnet and movable coil and (2) the mechanical force produced in the electrodynamic system by a small electric current flowing through the same.

2,669,875

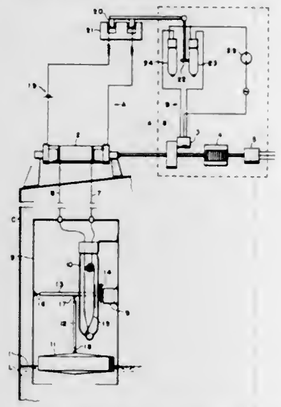
LIQUID LEVEL METER

Guido Wuensch, Horst Ziegler, and Heinz Caspar, Berlin, Germany, assignors to Askania-Werke A.-G., a corporation of Germany

Application May 15, 1952, Serial No. 287,828
4 Claims. (Cl. 73—313)

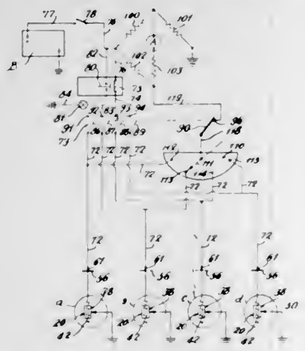
1. Apparatus for measurement of a widely varying liquid level, comprising a float device

adapted to ride on the liquid level to be measured; a float follower device; a magnetic pole mercury switch and a control magnet for the same, both rigidly mounted on one of said devices; a small and light shield, supported at least in part by the other of said devices, readily insertable between and removable from between the magnet and switch by small vertical movements of one of said devices relative to the other; a low voltage circuit including said switch; a power circuit controlled by said low voltage circuit; power means in said power circuit adapted alternately to lower and



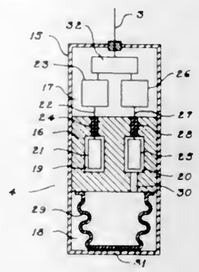
raise said float follower device depending upon the insertion or removal of the shield between the magnet and switch and thereby to keep the float follower device closely adjacent the elevation of the float device while constantly maintaining small upward and downward movements of the float follower device; and measuring means adapted to operate together with the power means and thereby to reflect differentials between the upward and downward motions of the float follower device and indirectly to reflect the upward or downward motions of the float device and liquid level.

2,669,876
TIRE PRESSURE INDICATING AND RECORDING DEVICE
David M. Lentz, Maple Heights, Ohio, assignor to Edward K. Brown, Shaker Heights, Ohio, as trustee
Application July 15, 1950, Serial No. 174,046
9 Claims. (Cl. 73—390)



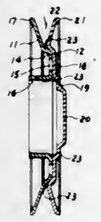
1. In combination with a plurality of pressurized containers; a source of electric current, an electric circuit connected to said source; a separate means operatively associated with each container and adapted to be electrically connected with said circuit and responsive to the pressure in the respective container and each provided with cooperating elements that regulate the current flow value through the respective separate means and said circuit in correlation to the pressure in the respective container when such pressure is above or below a predetermined pressure range but interrupt current flow therethrough when the pressure in the respective container is within said predetermined range; a signal circuit connected to said electric circuit, a single electrically responsive signal device included in said signal circuit, means for automatically completing said signal circuit and energizing said single device in response to a current flow through any of said separate means and said electric circuit thus warning of the existence in at least one of the containers of a pressure which is above or below said predetermined pressure range; a single indicating device connected to said electric circuit and adapted to show the current value flowing through said electric circuit and any of said separate means and calibrated in terms of pressure, and selecting means included in said electric circuit for selectively connecting said single indicating device with the individual separate means whereby when said signal device is energized said selecting means enables determination of the particular container wherein the pressure is above or below the predetermined pressure range.

2,669,877
PRESSURE MEASURING DEVICE
Henry F. Dunlap, Dallas, Tex., and John H. Ramser, Chester, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 30, 1948, Serial No. 62,712
4 Claims. (Cl. 73—398)



1. Apparatus for measuring fluid pressure which comprises a crystal oscillator, a housing for the oscillator adaptable for positioning within the fluid, a chamber within the housing for enclosing the crystal, a pressure transmitting means hermetically sealed against the chamber and communicating therewith, gas enclosed in said chamber and transmitting means and directly contacting said crystal, said gas comprising the only means for transmitting pressure from said pressure transmitting means to said crystal, passage means in the housing for permitting the fluid to enter thereinto and contact the pressure transmitting means whereby pressure of the fluid is transmitted to the gas which, in turn, exerts a pressure on the crystal substantially equal to the fluid pressure, and means for measuring the resulting frequency of oscillation of the crystal oscillator.

2,669,878
PULLEY CONSTRUCTION
Thomas Edward Nelson, Drayton Plains, Mich.
Application October 10, 1950, Serial No. 189,459
3 Claims. (Cl. 74—230.3)



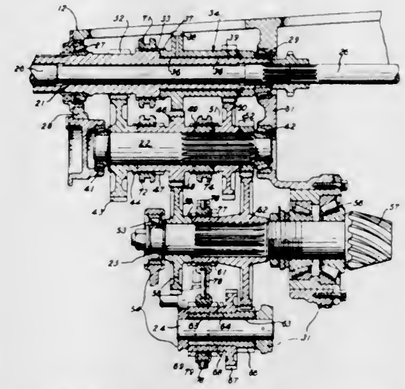
1. In a pulley construction, a formed disc having a flat annular portion and an outwardly inclined annular flange, a second formed disc having a central outwardly directed annular sleeve adapted to receive and support a hearing assembly, an intermediate flat annular portion, and an outwardly inclined annular flange cooperable with said first flange defining an annular V-shaped groove therebetween, the flat portions of said discs being in surface registry with each other and welded together by continuous interior and outer concentric welds of circular shape for completely sealing off the space between said discs.

2,669,879
POWER TRANSMISSION CHAIN
Harold S. Pierce, Indianapolis, Ind., assignor to Link-Belt Company, a corporation of Illinois
Application July 6, 1951, Serial No. 235,420
18 Claims. (Cl. 74—253)



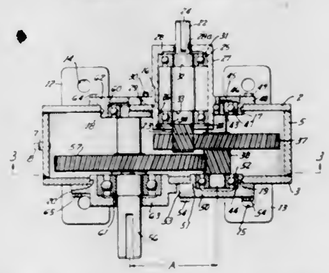
1. In a drive chain of the silent type, a pair of pitches of links having their adjacent end portions overlapped and transversely alined pitch holes through said overlapped end portions, the pitch holes of the links of one pitch each having a bearing surface at its side nearest the adjacent end of its link, and articulating joint parts connecting said overlapped end portions comprising a pin extending through said alined pitch holes, and a liner interposed between the pin and the aforesaid bearing surfaces having a bearing surface on its periphery engaging the said pitch hole bearing surfaces, said liner and pitch hole bearing surfaces having cooperating medially located load carrying lands normal to the line of centers of said one pitch and also having cooperating wedging portions circumferentially spaced from the opposite ends of said lands for preventing relative movement between the liner and the links of said one pitch, and the pitch holes of the links of the adjacent pitch being shaped to provide clearance for said liner to permit articulation at the joint and each having a surface movable into engagement with a wedging portion of the liner bearing surface to limit the extent of articulation at said joint.

2,669,880
TRANSMISSION
Harold L. Brock, Detroit, and James R. Stevenson, Ann Arbor, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application June 27, 1950, Serial No. 170,658
8 Claims. (Cl. 74—360)



1. In a variable speed power transmission, in combination, a driveshaft, a countershaft and a driven shaft, a drive gear carried by said driveshaft, a two element cluster gear rotatably mounted on said driveshaft, first, second and third gears rotatably mounted on said countershaft in constant mesh respectively with said drive gear and the two elements of said cluster gear, clutch means selectively connecting said cluster gear to said driveshaft, additional clutch means selectively coupling said first, second and third gears to each other and to said countershaft, and gearing between said countershaft and said driven shaft.

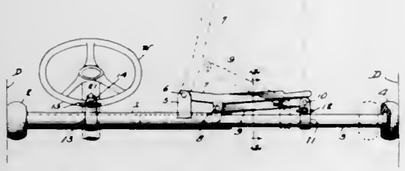
2,669,881
GEAR REDUCTION UNIT
Richard H. Skidmore, Lyndhurst, Ohio
Application September 21, 1950, Serial No. 186,066
1 Claim. (Cl. 74—421)



A speed reducer comprising a housing having side walls, end walls and a bottom wall, said side walls consisting of flat plates having substantially the same overall dimensions, said plates each having two bearing holes therein, said end walls and bottom wall being integral, means to secure said end walls and bottom wall to said side walls so as to define a chamber therebetween and with said bearing holes in each side wall in alignment, an input shaft extending through one of said side walls with the inner end thereof terminating between said side walls, bearings dis-

posed in spaced relation on said input shaft, means for supporting said bearings on said one of said side walls, a pinion having helical teeth on the inner end of said input shaft, an intermediate shaft, an output shaft, bearings on the ends of said intermediate and output shafts, adapters having recesses for receiving said last named bearings and inserted in said aligned bearing holes in said side walls, means for removably securing said adapters to said side walls, a first helical gear non-rotatably mounted on said intermediate shaft and aligned with said pinion so as to mesh therewith, a second helical gear non-rotatably mounted on and removable from said intermediate shaft and disposed adjacent said first gear, an output helical gear non-rotatably and removably mounted on said output shaft and aligned with said second gear so as to mesh therewith, said second and output gears having a predetermined speed reduction ratio.

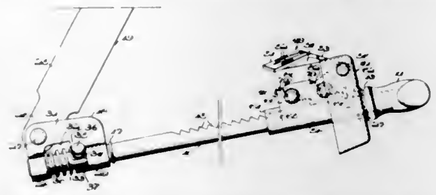
2,669,882
VEHICLE STEERING WHEEL LOCKING DEVICE
William H. Shaffer, Birch Run, and William Stenger, Bridgeport, Mich.
Application April 20, 1951, Serial No. 222,088
1 Claim. (Cl. 74—495)



Means for locking the steering wheel of a vehicle against rotation about its axis comprising an elongated tubular bar, a cushion carried by one end of said bar for engaging one side wall of a vehicle, an elongated rod, a cushion carried by one end of the rod for engaging the opposite side wall of the vehicle, the end of the rod remote from the cushioned end thereof telescopically entering the uncushioned end of the bar, a hand lever mounted on the bar adjacent the uncushioned end thereof for movement in an arcuate path adjacent one side of said bar, an elongated link pivotally connected adjacent one end to the lever intermediate the ends thereof, mans carried by the link adjacent the opposite end thereof and embracing the rod for moving said rod as the lever is moved, and means carried by the bar and projecting laterally therefrom for engaging the steering wheel of the vehicle and holding it against rotation.

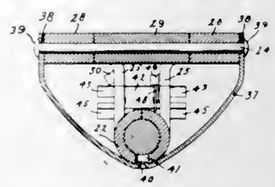
2,669,883
BRAKE LEVER ASSEMBLY
Charles R. Duncan, Detroit, Mich., assignor to American Forging & Socket Company, Pontiac, Mich., a corporation of Michigan
Application January 31, 1951, Serial No. 208,762
1 Claim. (Cl. 74—503)

In a straight pull brake lever assembly, a pivotally mounted brake lever having a free end, a generally longitudinally movable pull rod having an end portion located in the region of said free end of the brake lever, the said end portion of the pull rod being cylindrical, a connector bracket for connecting the free end of said brake lever to the end of said pull rod, said bracket being formed of sheet metal doubled upon itself to provide spaced apart confronting flanges, the free end of said brake lever being received between and pivotally connected to said flanges, the doubled portion of said bracket being formed cylindrically and receiving the said end of said pull rod, the intermediate portion of the doubled cylindrically formed portion of said bracket having an enlarged opening thereat providing cylindrical journal portions spaced axially of said pull rod, the side of one journal confronting the other journal having a circumferentially extending



recess providing circumferentially spaced abutment surfaces at its ends, an abutment on said rod located in said recess, stop means on said rod engageable with said bracket and normally preventing movement of said abutment out of said recess, a coil spring surrounding the portion of said rod intermediate said journal portions and protected by said bracket, said spring having one end engaging said bracket and its other end engaging said abutment to exert torque tending to maintain said abutment in engagement with one abutment surface of said recess.

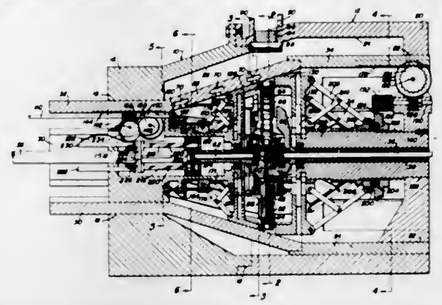
2,669,884
STRAIGHT PULL BRAKE LEVER ASSEMBLY
Ray A. Sandberg, Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application December 5, 1947, Serial No. 789,885
8 Claims. (Cl. 74—503)



1. In combination in a brake lever assembly including a reciprocal and swingable rod member, a tubular guide for said rod member including a pair of spaced wall members including coplanar flanges, said flanges having coaxial spaced hinge journals, and a hinge plate having a hinge journal coaxially disposed between said housing hinge journals, and hinge pin means pivotally connecting the journals.

2,669,885
VARIABLE TRANSMISSION
Albeno J. Fedri, Weston, Pa.
Application May 10, 1951, Serial No. 225,597
25 Claims. (Cl. 74—750)

1. A variable speed transmission including power input and output shafts, an epicyclic variable speed gear assembly operatively connecting said shafts, said gear assembly including an orbit gear consisting of a sprocket chain, a carrier for said orbit gear, means mounting said orbit gear upon said carrier for relative sliding movement between said orbit gear and said carrier to vary the diameter of said orbit gear, means for imparting movement to said carrier to effect relative



sliding movement between the carrier and orbit gear.

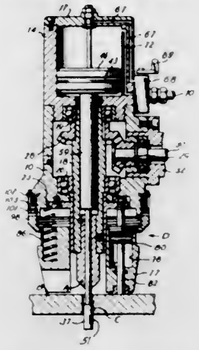
2,669,886
WRENCH FOR INSERTABLE TEETH IN SAWS
James C. Haughy, Red Bluff, Calif., assignor to Ada Haughy Thompson, San Francisco, Calif.
Application November 19, 1951, Serial No. 257,136
8 Claims. (Cl. 76—80)



1. A wrench for manipulating insertable disc teeth in peripheral sockets of circular saws, comprising a handle member having a handle grip portion at one end and having at its opposite end a hook at one side of the handle, said hook having a pair of spaced substantially parallel walls connected at one end by an end bridge flange therebetween providing a hook socket open at one end for receiving therein the disc plate of a saw tooth, and the hook sidewalls each having a relatively aligned perforation therethrough spaced from said end bridge, a pin having a bar portion reciprocable through said parallel walls and through a perforation of the saw tooth disc, and means to reciprocate said pin, said handle member having a lateral angular end portion adjacent to the hok end offsetting the hook from alignment with the hand grip portion of the handle, whereby the hand grip portion of the handle may be positioned within the outer periphery of a circular saw when the hook is engaged with a saw tooth at said periphery.

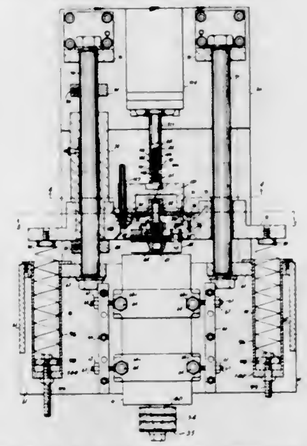
2,669,887
COUNTERSINKING APPARATUS
Shropshire E. Rees, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application August 17, 1950, Serial No. 179,908
15 Claims. (Cl. 77—2)

1. A countersinking apparatus for countersinking an opening extending through a work piece and including a housing, a countersinking cutter rotatably mounted on the lower portion of the housing, a hollow cylindrical guide member having an axially closed end portion extending axially of the cutter in advance thereof and adapted to project through the opening in the work piece, a latch mounted in the side of the guide member near the closed end portion thereof and engageable with that side of the work piece opposite the side to be countersunk for locking the guide member against withdrawal from the opening, and an actuator in the interior of said guide member



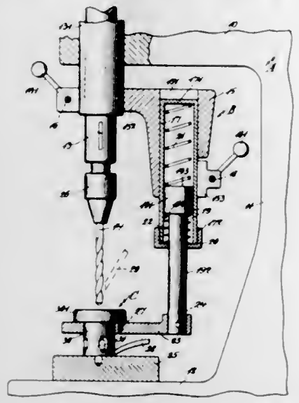
mounted for limited movement with respect thereto and toward the closed end portion thereof for actuating said latch into locking position.

2,669,888
APPARATUS FOR MACHINING AN INTERNAL CYLINDRICAL SURFACE
Wayne H. Sheley, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 18, 1948, Serial No. 60,686
1 Claim. (Cl. 77—4)



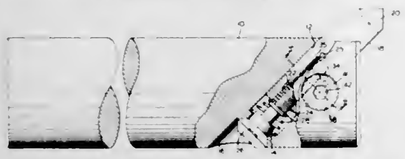
In a device of the character described the combination comprising, a workholder; clamping means for clamping a workpiece to said holder; stationary tooling means for operating on the workpiece; a pneumatic device for sequentially operating the clamping means and then while holding the workpiece in clamped position, advancing the workpiece toward the tooling means for accomplishing the desired result; and adjustable spring means cooperating with the workholder for opposing the movement of said pneumatic means toward said tool means said yieldable means including a plurality of tubular casing members each open at one end and spaced from the workholder, a spring fitted within each of said members and extending from the open ends of the members into engagement with said workholder for supporting the same, and adjustment means adjacent the closed ends of said members and adapted to be individually adjustable for varying the action of said mounting with respect to said workholder.

2,669,889
CHIP BREAKING DEVICE
Adolf Hüller, Ludwigsburg, Germany
Application April 1, 1953, Serial No. 346,091
5 Claims. (Cl. 77—55)



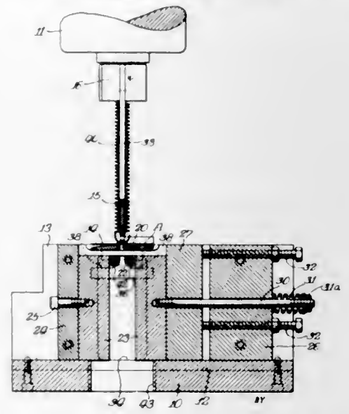
1. Chip breaking device for breaking long chips produced when drilling work by means of a twist drill into small pieces comprising a sleeve member through which the drill is adapted to be directed, said sleeve having at least one hole near its lower end portion forming an inner cutting edge, holding means adapted to hold said sleeve member stationary during the drilling operation, a deflecting element rotatably arranged in said sleeve member, a bottom wall provided on said deflecting element, said wall having a central opening of such shape that at least one driving portion extends into a flute of a twist drill passing through said opening, limiting means for limiting the axial motion of said rotatably arranged deflecting element in both directions.

2,669,890
BORING BAR
Deh C. Tao, Akron, Ohio, assignor to Portage Machine Co., Summit County, Ohio, a corporation of Ohio
Application June 19, 1953, Serial No. 362,923
10 Claims. (Cl. 77—56)



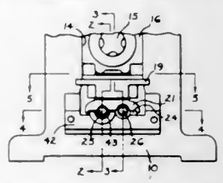
1. In combination, a boring bar having an obliquely-directed cylindrical opening near one end, a cutter bar slidably received in the opening, a brazed-on cutter tip on the outermost end of the cutter bar, the position of the opening being such as to position the cutting edge of the cutting tip on the center line of the boring bar, a shoulder formed on the innermost end of the opening in the boring bar, a spring between the shoulder and the cutter bar urging the cutter bar outwardly, an adjusting screw having a head engaging with the opposite side of the shoulder from the spring and a threaded shank screwing into a bore in the cutter bar, the cutter bar being formed with a flat and a diametrically-opposed slot, the slot being substantially tangent to the bore in the cutter bar, a wedge clamp slidably received in a recess in the boring bar directed substantially at right angles to the opening so that the wedge clamp engages with the flat, the recess being formed with an eccentrically positioned counterbore, a lock screw having threaded engagement with the counterbore, a freely rotary stud and socket connection between the lock screw and wedge clamp positioned axially of the lock screw and eccentrically of the wedge clamp, and resilient means urging the lock screw and wedge clamp apart so that the wedge clamp is held lightly in engagement with the flat of the cutter bar.

2,669,891
MACHINE FOR MAKING SHIMS
Le Roy Ware, Richmond, Ind., assignor to Perfect Circle Corporation, Hagerstown, Ind., a corporation of Indiana
Application October 18, 1947, Serial No. 780,714
4 Claims. (Cl. 80—19)



1. A machine for tapering a strip of metal of uniform initial thickness, a support for the strip having a slot, a pair of spaced platens positioned adjacent said slot, a pair of spaced rollers in rolling engagement with the platens, a wedge movable endwise through said slot to place the strip in folded position over the end of the wedge, the wedge then being movable into the space between the rollers to roll the strip against the side faces of the wedge, and spring-operated roller carriers loosely supporting the rollers and tending to move the rollers toward said slot in position to receive the wedge therebetween.

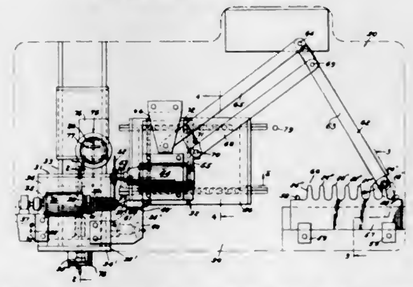
2,669,892
ROLLING MILL
Joseph M. O'Malley, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application November 5, 1949, Serial No. 125,784
2 Claims. (Cl. 80—56)



1. An adjusting mechanism for the lower roll of a horizontal rolling mill comprising two horizontally spaced wedge members supporting the respective roll neck bearings of the roll, each

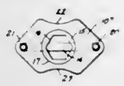
member having a recess in its lower surface, a separate internally threaded sleeve of generally cylindrical form located in each recess, two parallel substantially horizontal rods extending through the respective sleeves and having external screw threads engaging the threads within the sleeves, each sleeve extending completely around its respective rod, each rod having an end portion extending outwardly of the mill, a separate anti-friction thrust bearing engaging each said extending end portion and holding the rod against axial thrust in either direction, and a bracket fastened to one of the roll housings of the mill externally thereof, the two anti-friction thrust bearings being mounted in said bracket.

2,669,893
FIN FORMING ROLL
Walter P. Hill, Pontiac, Mich., assignor to Calumet & Hecla, Inc., a corporation of Michigan
Original application September 25, 1950, Serial No. 186,597. Divided and this application January 29, 1951, Serial No. 208,301
6 Claims. (Cl. 80—58)



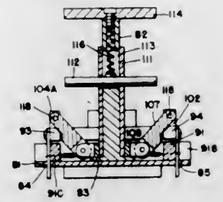
1. A fin forming roll comprising a plurality of individual discs, each disc provided with a central hub portion and with a surrounding portion having the opposite side surfaces converging toward the periphery of the disc, said discs being secured together in axial alignment with the hub portions of adjacent discs in contact and with the side surfaces of adjacent discs spaced axially from each other to form annular spaces therebetween, the surrounding portions of the discs progressively increasing in thickness to provide the annular spaces between adjacent discs with progressively decreasing widths and the median planes between the side surfaces of adjacent discs being spaced equal distances from one another.

2,669,894
NUT-HOLDING DEVICE
Alvin Kassel, Bronx, N. Y.
Application April 3, 1951, Serial No. 218,952
1 Claim. (Cl. 81—13)



A finger-supported nut-holding tool comprising a flat and elongate plate having opposite flat surfaces, having concave side walls on opposite sides of its elongate axis and having a polygonal nut-receiving socket which extends into at least one of said flat surfaces and is located between said concave side walls; and a loop-shaped rod extending outwardly from the other of said flat surfaces and having its ends secured to said plate along said elongate axis and at points spaced from opposite wall portions of said socket, said loop-shaped rod containing a plane which lies perpendicular to said flat surfaces and which intersects said plate along said elongate axis, said loop-shaped rod cooperating with said plate to form a finger-receiving opening, whereby said tool can function as a nut holder while being worn on a finger of a human hand.

2,669,895
TOOL FOR SECURING TILE TO WALL OR SIMILAR SURFACE
Arthur F. Leis, Dayton, Ohio
Original application June 10, 1948, Serial No. 32,127. Divided and this application April 4, 1950, Serial No. 153,916
2 Claims. (Cl. 81—15)

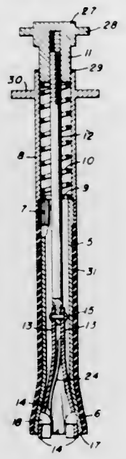


1. A tool for securing a tile to a wall or similar surface, comprising a body having a bottom surface for abutting the outer face of the tile to be secured in position, said body having a pair of slots adjacent opposite edges of said bottom surface of the body; a pair of levers fulcrumed in the slot, one of said levers extending from above said bottom surface, through one of the slots and extending below said bottom surface, the other lever being similarly positioned with respect to the other of said slots; a post secured substantially centrally of the body and extending upward of the body; a handle on the top of the post; a sleeve mounted for longitudinal slidable movement on and guided by the post, the top of the sleeve terminating below the handle thereby providing clearance for upward sliding of the sleeve on the post and the bottom of the sleeve terminating below the top of the levers; toggle links pivotally connected with the upper parts of the levers and pivotally connected to the bottom of the sleeve, the last mentioned pivotal connections lying in a horizontal plane below the first mentioned pivotal connections, said toggle links being thereby adapted to actuate the levers for moving the lower ends of the levers toward one another upon upward sliding of the sleeve; and a handle for pulling the sleeve upwardly.

2,669,896
RETRACTABLE JAW WRENCH HAVING PARALLEL RESILIENT JAWS
Robert S. Clough, Wilmington, Del.
Application January 19, 1951, Serial No. 206,850
1 Claim. (Cl. 81—128)

A tool comprising a tubular handle having an outwardly flared open end, a member mounted for manual reciprocation in said handle, resilient means cooperating with said handle and said member and normally urging said member to a retracted position, a pair of opposed gripping jaws carried by said member including means resiliently urging said jaws apart and into contact with the interior surface of said flared open end, each said jaw comprising an elongated finger having an ogee curvature along its longitudinal axis in substantially parallel relationship with

said flared portion of said handle, the radii of curvature of said flared open end of said handle differing from the radii of curvature of said finger whereby the tubular handle functions as a guideway for camming said jaws together in opposed parallel relationship upon retracting said member, said finger further including a substantially V-shaped transverse contour, and a lug carried by each said finger whereby said jaws may serve to engage, grip and turn nuts and screws interchangeably.



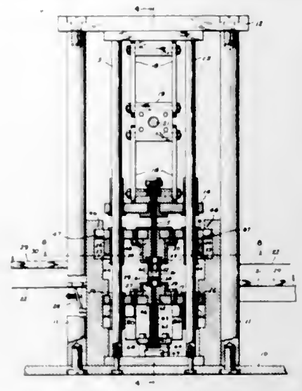
2,669,897
REED FOR MUSICAL INSTRUMENTS
Jacob Topor, Wheeling, W. Va.
Application December 20, 1950, Serial No. 201,814
1 Claim. (Cl. 84—380)



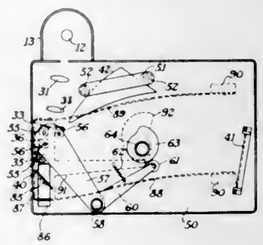
A reed for musical instruments comprising a thin vibrating portion and a thicker non-vibrating portion, said thicker non-vibrating portion being divided into two longitudinally extending semi-cylindrical portions, said portions being provided with an opening therebetween which partially separates the said portions.

2,669,898
ASSEMBLY PRESS
George R. Eckstein, Fairfield, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application December 14, 1950, Serial No. 201,278
9 Claims. (Cl. 86—10)

3. In a machine for the assembly of a plurality of components into a unitary article, the combination comprising a reciprocable punch holder; a punch in said holder; an upper die holder reciprocable in axial alignment with the punch holder; a work-holding die in said upper die holder coaxial with said punch; means to feed a component into the die in said upper holder into alignment with said punch; yieldable power means acting to reciprocate said punch holder in a first working stroke into contact with said die holder whereby said punch is moved into but not through said die; and removable stop means positioned to prevent substantial reciprocation of said die holder while said punch holder reciprocates to seat said component more deeply in said die and to thereby eject a previously seated component.

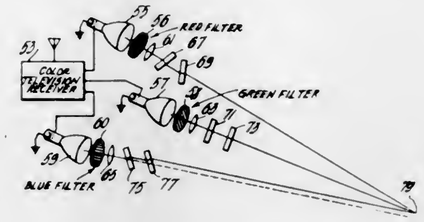


2,669,899
MONOCHROMATOR
Kenneth G. Macleish, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 14, 1950, Serial No. 200,819
13 Claims. (Cl. 88—14)



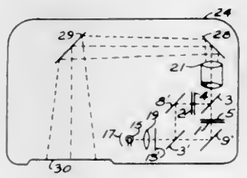
1. A monochromator of the reflecting dispersing prism type, comprising a support, a spherically curved reflecting dispersing prism rigidly mounted on the support for receiving light from a line substantially perpendicular to the plane of dispersion and for forming a focused spectrum intersecting said plane substantially along the arc of a circle which passes through said line, a concave cylindrical mirror with its cylindrical axis parallel to said plane rigidly mounted on the support and oriented to reflect light from said line to the prism and to reflect spectrally dispersed light from the prism to said spectrum, entrance and exit slit defining means of adjustable slit width mounted in fixed position on the support with the slits substantially perpendicular to said plane with both slits effectively on said circle at least one of them by having a virtual image thereof on said circle, the entrance slit being effectively at said line and the exit slit being effectively at a point on said arc, a plane reflector for forming on said circle said virtual image of one of the slits, means on said support for moving the plane reflector so as to move said virtual image substantially along said circle and means for illuminating and sending light through said entrance slit.

2,669,900
OPTICAL PROJECTION AND REGISTRATION SYSTEM
William H. Cherry, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 1, 1949, Serial No. 73,877
8 Claims. (Cl. 88—24)



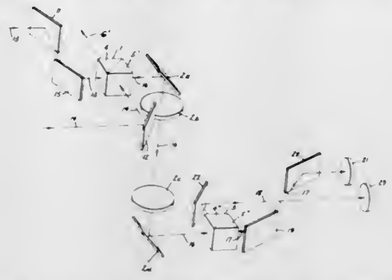
1. An optical system for registering two points of light at an imaging point comprising a pair of point of light sources, a plurality of clear elements each having refractive indices differing from the refractive index of air and each transparent element having two parallel surfaces through which the same and substantially all the light will pass from only one of said light sources, and means for tilting each of said transparent elements, with respect to each other and with respect to said last referenced light source to independently change the effective optical distance between the light source last referred to and said imaging point and to change the position of the imaging point of said last referenced light source.

2.669,901
OPTICAL SYSTEM ADAPTABLE TO STEREOSCOPIC PROJECTORS, VIEWERS, AND TELEVISION
Miles Parker Rehorn, Nashville, Tenn.
Application July 11, 1950, Serial No. 173,040
5 Claims. (Cl. 88—26)



1. An optical system comprising the combination of a pair of light transmitting elements having image bearing plane surfaces bearing respectively the images of a stereoscopically related pair of images, polarizing filters individual to said images, a light source, means for dividing a light beam projected from said light source into separate light beams and directing one said separate beam to one image bearing surface and directing the other separate beam to the other image bearing surface, said dividing means comprising a half mirror in the path of the said projected light beam and spaced from said light source and passing part of the light without substantial change in its direction and reflecting another part of the light in a different direction, said polarizing filters being positioned in the respective paths of the separate light beams and polarizing the light beams, and means for merging the polarized light beams and causing them to propagate in the same direction after the merger.

2,669,902
BINOCULAR OPTICAL SYSTEM
Norman F. Barnes, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 26, 1950, Serial No. 186,762
6 Claims. (Cl. 88—33)



1. A binocular optical system comprising in optical alignment a first polarizing beam splitter having two entrance surfaces and one exit surface, and a second polarizing beam splitter having one entrance surface and two exit surfaces, said beam splitters each having the characteristic of transmitting substantially all light polarized perpendicular to one plane and reflecting to one side substantially all light polarized parallel to such plane, and means for directing two beams of unpolarized light to said first beam splitter from two different points of view for binocular observation, one of said beams impinging one one of the entrance surfaces and the other of said beams impinging on the remaining entrance surface such that the component of one beam transmitted by the beam splitter and the component of the other beam reflected by the beam splitter are polarized in mutually perpendicular planes and are directed out of said exit surface along a common optical path, an optical relay positioned in said common optical path intermediate said first and second beam splitters and comprising a lens assembly for confining and transmitting the selected components of said two beams of light to the entrance surface of said second beam splitter, said second beam splitter serving to split the selected components transmitted through the relay into two separate polarized light beams.

2,669,903
SPECTACLES
René Tardy, Rouen, France
Application December 20, 1951, Serial No. 262,523
Claims priority, application France December 29, 1950
2 Claims. (Cl. 88—47)



1. In an ophthalmic mounting, a continuous flat bar having a central portion curved to form a nose bridge and end portions receiving temples, lenses having the outer surfaces of upper marginal portions lying against the inner surface of portions of said bar between said nose bridge and temples, each of said lenses having on its inner face recesses in the vicinity of said nose bridge and temples, said recesses being spaced from the edge of the lens and in the marginal portion the outer surface of which engages said bar, and means for holding said lenses com-

prising a pair of resilient metal wire fingers each fixed at one end on the inner face of, and at right angles to, said bar, then bent at right angles toward each other to provide portions substantially parallel to said bar and then again bent at right angles to provide end portions directed toward said bars, said end portions of the fingers engaging the bottoms of said recesses in said lenses.

2,669,904

METHOD OF GENERATING FACE AND TAPERED GEARS WITH BOWED FORMATION

Benjamin Bloomfield and Donald S. Whitney, Springfield, Vt., assignors to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont

Application March 1, 1948, Serial No. 12,266
8 Claims. (Cl. 90—1.6)



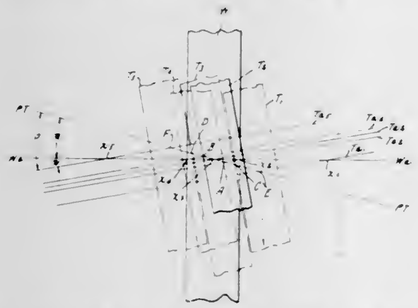
1. A method of producing a tapered gear with teeth having oppositely bowed formations on their side faces, and which gear has been designed to mesh at a given center distance with a pinion of cylindrical gear characteristics, which consists of engaging said gear with a cutter, said cutter having cylindrical gear characteristics with a base circle greater than said pinion and being oversized with respect to said pinion, so that the center distance between cutter and gear is greater than that between pinion and said gear and effecting a relative cutting and generating movement between said cutter and gear.

2,669,905

FULL TOOL GEAR FINISHING METHOD

Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont

Application August 15, 1947, Serial No. 768,881
7 Claims. (Cl. 90—1.6)



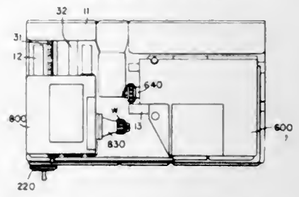
5. The method of finishing gears in which a gear shaped tool is meshed in pressure contact with a work gear and is disposed in crossed axis relation thereto, which comprises effecting relative translative displacement between the tool and gear in a path inclined to the axis of the gear and the tool and establishing the acute angle of inclination of such path with the axis of the gear at a value such that its tangent is less than four times the magnitude of the tangent of the acute angle between the crossed axes.

2,669,906

GEAR SHAPER

Walter S. Praeg and Arthur B. Bassoff, Detroit, Mich., assignors, by mesne assignments, to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont

Application March 24, 1948, Serial No. 16,636
13 Claims. (Cl. 90—7)



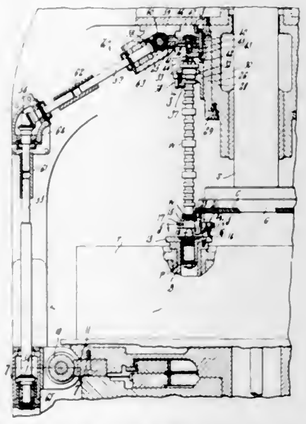
1. In a gear shaping machine, a work and a tool spindle, rapid traverse means including a first motor for effecting relative radial approach between said spindles from a loading position to a cutting position, other means including a second motor for effecting a radial depth infeed between said spindles, means for de-energizing said first motor and energizing said second motor to initiate depth feed, rigid abutment means limiting depth feed, and means responsive to completion of depth feed to de-energize said second motor and re-energize said first motor to apply a force in the direction of further depth feed.

2,669,907

WORK SUPPORT FOR LONG WORKPIECES WITH MACHINE TOOLS

Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont

Application November 20, 1947, Serial No. 787,046
11 Claims. (Cl. 90—7)



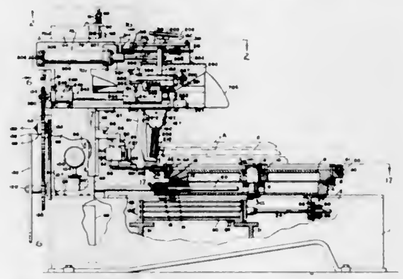
1. In a machine tool, a supporting structure, a rotatable work spindle supported thereby adapted to engage one end of a work piece, a spring pressed hold-down device disposed at a distance from the spindle along the axis thereof arranged to exert force toward the spindle on a work piece interposed between the spindle and said hold-down device, said device being held against movement relative to the rotation of said work spindle and having means thereon with rotative engagement against said work piece and means for transmitting rotation from the spindle to a work piece so engaged with the spindle and hold-down device.

2,669,908

CONTOUR MILLING MACHINE

Frank A. Buechler, Tallmadge, Ohio, assignor, by mesne assignments, to Bridgewater Machine Tool Co., Akron, Ohio, a corporation of Ohio

Application December 21, 1951, Serial No. 262,751
3 Claims. (Cl. 90—13.7)



3. Apparatus for machining a gradually changing angular edge on a non-circular work piece comprising a work table to which the work piece is fixed, means for rotating the work table, a head projecting over the table, a tool carrier pivotally mounted in the head, a cutting tool depending from the head in position to have one side of the tool engage the edge of the work piece, means to rock the carrier during the rotation of the table to vary progressively the angle to be cut on the edge of the work piece, said rocking means maintaining the tool in accurate position against the side thrust of the work piece, a template attached to the work table, a template follower, and means acting in response to the movement of the template follower to shift the table toward or from the tool to cause the tool to follow the contour of the work piece.

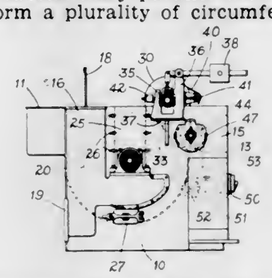
2,669,909

APPARATUS FOR THICKENING LIQUID SLURRY STOCKS

Albert G. Gibson, Middletown, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio

Application June 15, 1950, Serial No. 168,270
8 Claims. (Cl. 92—42)

1. In the apparatus for regulating the consistency of the thickened stock delivered by a stock thickener including a vat adapted to be filled with dilute stock to be thickened and having a discharge trough and an overflow outlet for said dilute stock to said trough, a cylinder mold mounted for rotation within said vat and means for receiving and discharging the thickened stock from said cylinder mold to said trough, the improvement comprising the combination of a transfer roll mounted between said cylinder mold and said outlet in spaced relation with the surface of said cylinder mold and in the path of flow of stock over said overflow outlet, means maintaining said transfer roll in running clearance with said overflow outlet substantially preventing flow of stock therebetween, generally straight vanes extending lengthwise of said transfer roll and substantially parallel with the axis thereof to form a plurality of circumferentially



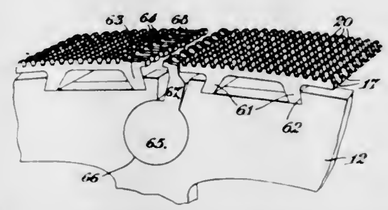
separated compartments around said transfer roll, means for rotating said transfer roll to cause said compartments to be successively filled with dilute stock within said vat and to carry said stock over said overflow outlet to said trough, and means for varying the speed of rotation of said transfer roll to regulate the rate of discharge of said stock from said overflow outlet.

2,669,910

CYLINDER MOLD FOR USE IN PAPERMAKING

William Edwin Knowles Trotman, London, England

Application August 8, 1950, Serial No. 178,293
9 Claims. (Cl. 92—43)



1. A cylinder mould comprising a central shaft, a plurality of rings mounted upon said shaft, said rings having slotted peripheries, a large number of bars supported by said slotted rings and extending therebetween over substantially the full width of the mould, said bars each having a stem portion by means of which they are supported by engagement with the slotted peripheries of said rings and a radiused head portion, the width of said head portions being such that together they constitute a cylindrical surface and said head portions being formed with intersecting grooves and passages whereby said cylindrical surface is made up of a plurality of small spaced surfaces and a plurality of drainage channels are provided through said cylindrical surface, and an outer covering supported by said plurality of small spaced surfaces.

2,669,911

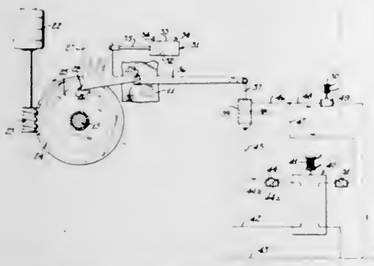
INDEX CORRECTOR

Henry C. Stieglitz, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application August 21, 1951, Serial No. 242,975
12 Claims. (Cl. 90—56)

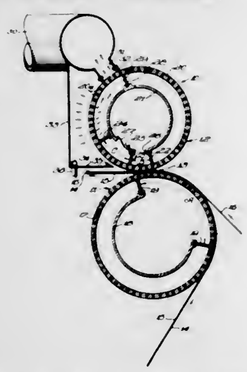
1. Indexing mechanism for a machine tool which comprises a rotatable work support having a work piece thereon, means exerting a rotating

torque on said work support, an index plate rotatable with said support and having stop means thereon, a pivotally mounted control arm engageable with said stop means to stop rotation of the work support at an initial position, means for shifting said control arm into and out of the path of said stop means, means for shifting the pivot of said control arm to move the arm



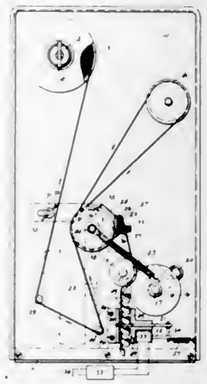
toward and away from said index plate to allow the torque to change the position in which the plate, and hence the work piece is finally positioned, and a feeler selectively engageable with a reference portion on a work piece on the work support for controlling said means for shifting the pivot whereby the position of said index plate is finally adjusted in accordance with the position of said reference portion on the work piece.

2,669,912
APPARATUS FOR REMOVING LIQUIDS FROM PERFORATED ROTATING SHELLS
John E. Goodwillie and Lloyd Hornbostel, Beloit, Wis., assignors to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application May 13, 1949, Serial No. 93,144
5 Claims. (Cl. 92—53)



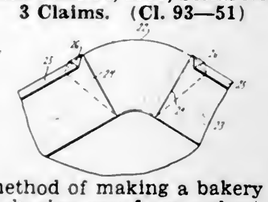
1. In a paper machine, a first press roll, a second press roll defining a press nip therewith, a felt trained through said press nip, means conveying the felt away from the first press roll surface at the off-running side of the press nip providing an exposed portion of the first press roll surface at the off-running side, said first press roll having a perforate rotating roll shell, a stationary suction gland mounted within said roll shell, first sealing means on said gland cooperating with said shell to define a suction area in the first press roll at said press nip, second sealing means on said gland defining a fluid pressure chamber between the gland and the shell extending from adjacent the suction area to a point angularly displaced from the suction area on the off-running side of the exposed portion of said first press roll, said second sealing means including a packing strip at said point, a conduit mounted outside the roll shell adjacent said point and connected to a source of gas under pressure, third sealing means mounted on said conduit and cooperating with said shell to conduct a gas blast from said conduit through said shell adjacent said point into said fluid pressure chamber and then out through the exposed portion of said first press roll, and stationary fluid pressure receiving means positioned exteriorly of said shell opposite the exposed portion of said first press roll to receive fluid forced back through the shell.

2,669,913
RIBBON CURLER
Pasquale L. Cerone, Dewitt, N. Y.
Application November 1, 1949, Serial No. 124,839
3 Claims. (Cl. 93—1)



1. A device for continuously and automatically curling a paper ribbon comprising a frame, means for supporting a supply of uncurled ribbon, a pair of power operated feed rolls having their axes extending horizontal in parallel relation, a bar mounted horizontally on the frame above the bight of said feed rolls, a friction plate, means yieldingly urging said bar against one side of said plate, the upper edge of said bar being beveled outwardly and downwardly from said friction plate, said feed rolls being cooperable to advance the ribbon upwardly between said friction plate and bar and downwardly over the upper beveled edge of the bar, and means for adjusting the position of said bar and friction member toward and from the vertical plane passing through the bight of said feed rolls.

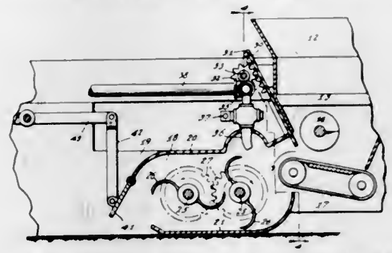
2,669,914
METHOD OF MAKING METAL FOIL PANS
William G. Swaine, Brentwood, Mo., assignor to Aluminum Foil Packaging Co., St. Louis, Mo., a corporation of Missouri
Application June 12, 1950, Serial No. 167,636
3 Claims. (Cl. 93—51)



1. The method of making a bakery goods baking and packaging pan from a sheet of foil material having in its flat condition a rectangular shape with fan-shaped rounded corners, which method includes the steps of punching a pan

blank in flat condition and to the shape specified, first initiating the forming of the corners, from the plane of the blank to start inwardly directed folds along regulated lines at each side of the corners, simultaneously bending up the sides of the pan blank and completing the forming of the corners with the folds at each side against the inner surfaces of the pan sides, and stiffening the pan sides between the corners and securing the corner folds by outwardly turning the margins of the pan sides to form flanges extending into and catching the corner folds to lock the folds at each side of each corner.

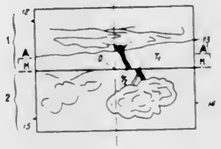
2,669,915
PAVING MACHINE
Kenneth E. McConnaughay, Lafayette, Ind.
Application March 14, 1946, Serial No. 654,263
8 Claims. (Cl. 94—44)



1. In a paving machine, a vehicle adapted to traverse a surface to be paved, an aggregate bin extending transversely of the vehicle, a mixing compartment extending transversely of the vehicle for substantially the full width of the pavement to be laid, a mixing element located in said mixing compartment and rotatable on a transverse axis extending transversely of the vehicle, said compartment having a top wall disposed above said mixing element and at its rear a discharge opening extending transversely of the vehicle, said mixing element having a plurality of teeth distributed axially of the element to engage and lift material in the mixing compartment without effecting any substantial displacement of such material axially of the element, means for feeding aggregate from said bin simultaneously to points distributed along the extent of said mixing compartment, means for driving said mixing element at a speed great enough to cause it to throw material in said compartment against said top wall and in a direction such that said teeth move rearwardly in the upper portion of their rotation, adjustable means to vary the relative quantities of aggregate simultaneously fed by said feeding means to selected points distributed along the transverse extent of the mixing compartment, and means for supplying a liquid binder at a predetermined rate to aggregate as it enters said mixing compartment and for regulating the distribution of said binder throughout the transverse extent of the mixing compartment.

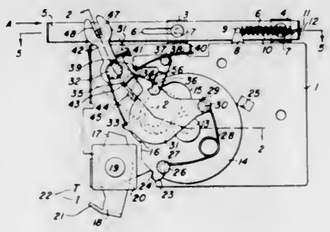
2,669,916
TELEMETRIC FOCUSING DEVICE
Lucien Jules Emile André Dodin, Canet-Plage, France
Application December 21, 1948, Serial No. 66,540
Claims priority, application France September 22, 1948
1 Claim. (Cl. 95—44)

In a telemetric focusing device of the type described the improvement comprising in combination two superimposed wedgelike isosceles deviation prisms facing with their edges in opposite direction, contacting each other in a plane passing through the optical axis of the device, and at least practically covering the entire image to be formed; each of said prisms being composed of two half-angle prisms of the same index of



refraction contacting each other in a plane perpendicular to said optical axis; at least one of the contacting surfaces in each pair of said half-angle prisms being ground to semitransparency and provided with a polished central portion; and an adhesive material uniting each pair of said half-angle prisms and having an index of refraction different from that of said prisms.

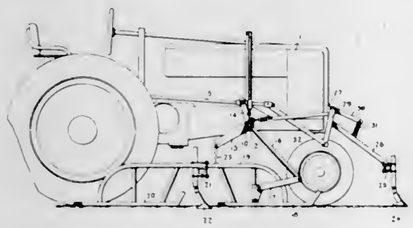
2,669,917
TWO-BLADE AND COVER BLIND SHUTTER
Harold L. Malone and Edgar S. Marvin, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 21, 1952, Serial No. 321,850
3 Claims. (Cl. 95—60)



1. A camera shutter comprising an apertured supporting plate, a movable trigger, a first lever pivotally mounted on one side of the plate, a second lever pivotally mounted on the other side of the plate, interengaging elements on each of the levers and the trigger for operating the levers by the trigger, a spring tending to move the trigger to a rest position, the first lever including an aperture covering portion and constituting a cover blind, the second lever carrying a lug, a first pivoted shutter blade having a rest position covering the exposure aperture and having a latch element thereon, and movable from its rest position to uncover the exposure aperture, a second pivoted shutter blade having a rest position exposing the exposure aperture and movable therefrom to cover the exposure aperture, a hairpin spring connecting the first and second shutter blades to drive the latter by the former, a spring between the second lever and the first shutter blade for driving the latter by the former, a latch element pivotally mounted on the plate and positioned to engage the latch element of the first shutter blade in its position of rest, means on the second lever for engaging and releasing the latch element, said spring between the second lever and the first shutter blade being ten-

sioned as the lever moves to release the latch element, the normally closed shutter blade when released moving to tension the hairpin spring connecting it to the normally open shutter blade to tension and finally release said hairpin spring whereby the normally open blade may move to close the exposure aperture completing an exposure.

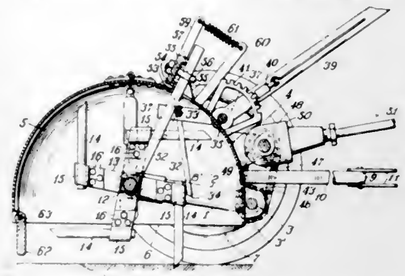
2,669,918
CROSS ROW COTTON CHOPPER
William E. Lawhorn, Osceola, Ark.
Application October 2, 1951, Serial No. 249,295
7 Claims. (Cl. 97—23)



1. A cross-row cotton chopping attachment for tractors of the type having at least one transverse horizontal implement bar, said attachment comprising a pivot bar adapted to be rigidly attached to said implement bar and projecting forwardly therefrom, a link member pivotally attached to the forward end of said pivot bar and extending rearwardly therefrom, a runner assembly pivotally attached to said link member, said runner assembly being divided into front and rear sections, each section having a broad ground engaging runner disposed in a horizontal plane, and being joined to the other section by an arched connecting member rising well above the plane of said runners, and ground engaging blades mounted on said runner assembly between said front and rear sections, said link member being pivotally attached to said runner assembly at a point substantially below the upper portion of said arched connecting member and rearwardly of its forward end for movement in a vertical plane parallel to that of said connecting member, said link member and connecting member constituting a cooperating pair one member of which pair is formed with parallel arms situated on opposite sides of and closely adjacent to the other member of said pair so that any substantial transverse movement of said runner assembly is prevented by the abutment of said connecting member against said link member.

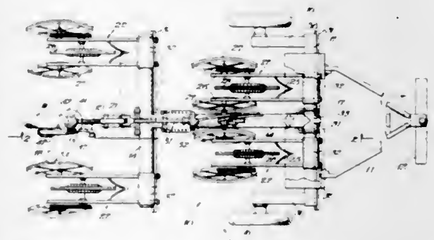
2,669,919
ROTARY PLOW
Leon T. Freeman, New Milford, Pa.
Application August 24, 1951, Serial No. 243,425
12 Claims. (Cl. 97—40)

1. In an agricultural implement, a frame, a shaft extending transversely of the frame and rotatably mounted, arms extending from said shaft and spaced from each other longitudinally thereof, diggers carried by said arms, a hood over said frame, a cross bar over said shaft and its arms disposed above said hood and pivotally mounted for transverse rocking movement, shredding blades extending downwardly from said cross bar through openings in the hood and disposed forwardly of the shaft between said arms, means for imparting rotary motion to said shaft, and means yieldably holding said cross bar against turning movement in one direction and allowing limited turning of the bar when the



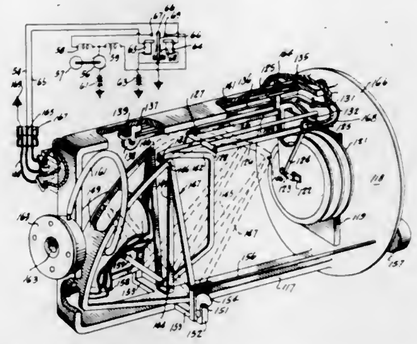
shredding blades are subjected to excessive pressure by material carried toward the shredding blades by the diggers.

2,669,920
IMPLEMENT SUPPORTING STRUCTURE
Bruno Da Valle, San Jose, Calif.
Application December 14, 1950, Serial No. 200,788
1 Claim. (Cl. 97—233)



In an implement supporting structure trailingly attached to a towing vehicle, comprising in combination, a T-shaped main frame with the leg of the T extending longitudinally and the cross bar of the T located rearwardly and extending horizontally, horizontally disposed journal means secured to said leg at the front end thereof, a horizontal transverse member journaled for rotation in said journal means, said member having a depending portion extending downwardly and rearwardly from each of its ends, said portions being transversely aligned and each carrying a ground wheel, a first transverse supporting element secured to said journal means below the same and parallel to said member, a first pair of ground working implements journaled on said member and fixed to said element with an implement disposed on each side of said leg, a second transverse supporting element secured to said cross bar below and parallel to the same, a second pair of implements secured to said cross bar and second element, a bellcrank having three arms mounted on said cross bar for swinging movement about a transverse axis, one of said arms extending rearwardly and having a ground engaging caster wheel mounted on the same, another arm of said bellcrank projecting upwardly, the third arm of said bellcrank projecting downwardly, a depending arm fixed to said member, a stiff link pivotally connecting said depending arm and said third arm, and means connected between said leg and said upwardly projecting arm of said bellcrank to swing said bellcrank rearwardly and move said wheels forwardly relative to said frame to lift the frame and the implements.

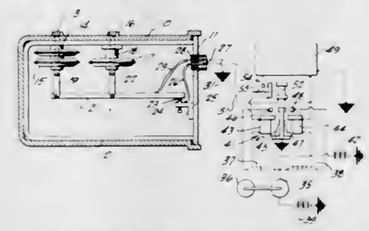
2,669,921
CABIN PRESSURE REGULATOR
Bruce E. Del Mar, Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Application February 14, 1951, Serial No. 210,945
6 Claims. (Cl. 98—1.5)



1. A pressure regulating device for use in a system for regulating absolute pressure within an aircraft cabin whereinto air is continuously supplied by an air delivery means and from which vitiated air is discharged through a controllable outlet valve, comprising: actuator means to be operatively connected to the control means for said valve; a first capsule responsive to changes in cabin absolute pressure; first link means, including a bell crank lever, operatively interconnecting said first capsule and said actuator means whereby said actuator means is moved in response to changes in cabin absolute pressure to regulate the valve control means to maintain cabin absolute pressure substantially constant above a preselected pressure altitude thereby to create a cabin differential pressure above said preselected pressure altitude; a second capsule responsive to changes in the differential between cabin absolute pressure and flight absolute pressure; means for pivotally supporting said second capsule whereby the direction of movement thereof as the same responds to changes in said differential may be varied; second link means operatively interconnecting said second capsule and said actuator means, said support means being movable to so position said second capsule that the latter, as cabin differential pressure changes, so moves said second link means as to oppose the action of said first capsule on said actuator means, said second link means being so arranged that in the said one position of said second capsule the incremental effect of such opposition progressively increases as the pressure altitude of the aircraft increases to so actuate said actuator means as to regulate the valve control means to decrease cabin absolute pressure in inverse straight-line proportion to increase in pressure altitude of the aircraft.

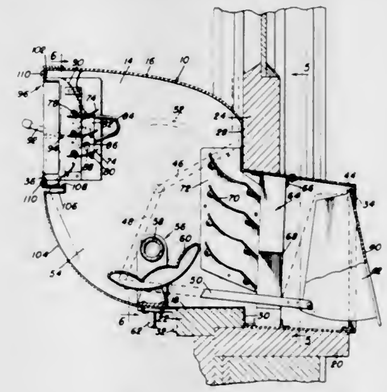
2,669,922
CABIN PRESSURE CONTROL INSTRUMENT
Bruce E. Del Mar, Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Application May 21, 1952, Serial No. 289,156
9 Claims. (Cl. 98—1.5)

1. An instrument for use in a system for regulating pressure in an aircraft cabin, which system includes means to effect and control air outflow from the cabin, comprising: an evacuated housing to be mounted within said cabin; a first capsule mounted within said housing; means carried by said housing adapted to be connected to ambient flight pressure and communicating with the interior of said first capsule; a second capsule mounted within said housing; means carried by said housing adapted to be connected to cabin absolute pressure and communicating with the interior of said second capsule; control effecting means, including means adapted to be operatively connected to the means of the system effecting and controlling outflow of air from the



cabin; and means motivating said control effecting means through the resultant movements of said capsules as the same conjointly move in response to changes in cabin absolute pressure and ambient flight pressure to decrease cabin absolute pressure to maintain a preselected ratio of cabin absolute pressure to ambient flight pressure whenever cabin absolute pressure tends to exceed a value which produces a ratio of cabin absolute pressure to ambient flight pressure in excess of said preselected ratio.

2,669,923
AIR CONDITIONING SYSTEM
Bonnie Knepper, De Witt, Iowa
Application October 9, 1950, Serial No. 189,200
2 Claims. (Cl. 98—99.8)



1. An air conditioning unit comprising a casing adapted to be mounted in a window opening, said casing having an inlet opening at one end thereof and an outlet opening at the other end thereof with a passage therein communicating between said inlet and outlet openings, a combined ultra-violet and infra-red radiator in said passage, louver means in the outlet opening of the casing adjustable for limiting the size of the outlet opening, and thermal responsive means operatively connected to the louver means and disposed in the passage to vary the size of the outlet opening according to the air temperature in the passage adjacent the outlet opening, whereby the temperature of air discharged from the casing

into the interior of a room may be automatically maintained substantially constant irrespective of the temperature of outside air entering the casing, said louver means comprising a plurality of pivotally mounted louvers in spaced parallel arrangement, a link pivotally connected to each of the louvers remote from the pivots thereof, whereby the louvers move in unison, said thermal responsive means comprising a bimetallic strip having one end secured to the casing and its other end operatively connected to the link to actuate the link and thereby the louvers, including a second link pivotally connected at one end to the first mentioned link, said other end of the bi-metallic strip being pivotally connected to the other end of the second link, and manual control handle for the louvers pivoted intermediate its ends to the casing and having one of its ends pivotally connected to the second link.

2,669,924

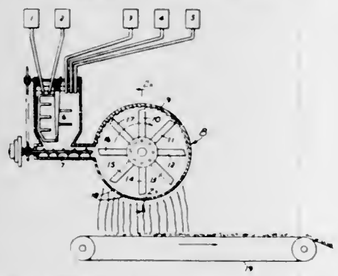
APPARATUS FOR THE PRODUCTION OF CHOCOLATE PASTES READY FOR SUBSEQUENT TREATMENT ON ROLL REFINERS

Hermann Kurt Wiemer, Wallington, England

Original application March 7, 1950, Serial No. 148,155. Divided and this application March 13, 1951, Serial No. 215,232

Claims priority, application Great Britain September 21, 1949

1 Claim. (Cl. 99—236)



An apparatus for the continuous production of chocolate pastes having the desired degree of fineness for subsequent treatment on roll refiners, comprising a premixing device of small dimensions, means for automatically separately and continuously weighing and supplying to said premixing device in small quantities predetermined relative proportions of ground cocoanut, cocoanut butter, sugar in crystal form and milk powder, a hammer mill including a cylindrical casing, a rotor in said casing mounted on a shaft extending axially in the casing, a circular series of peripherally spaced blade-like hammers carried by the rotor each extending radially in the casing to a point adjacent the inner periphery thereof, each successive blade-like hammer of one portion of the series being offset axially in one direction with respect to the next preceding peripherally spaced hammer of said portion of the series of hammers, each succeeding hammer of the remaining portion of the hammers of the series being offset axially in the opposite direction with respect to the next preceding peripherally-spaced hammer of said remaining portion of the series of hammers whereby the series of peripherally-spaced hammers are arranged in spiral segments with opposite slopes, means in the upper part of the casing including serrations cooperating with the hammers in the grinding of the chocolate paste, the lower portion of the casing being provided with holes for the discharge of chocolate paste from the casing, means for continuously feeding premixed chocolate paste from said premixing device into the hammer mill, and means for varying the speed of the feeding means.

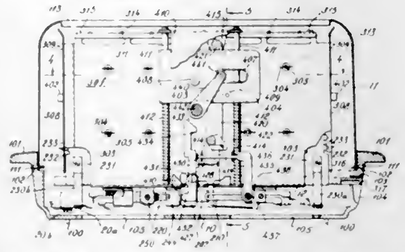
2,669,925

AUTOMATIC ELECTRIC TOASTER

George Herbert Rouse and Harry L. Laylon, Rochester, N. Y., assignors to Samson United Corporation, Rochester, N. Y.; Emmett L. Doyle and Austin C. Glasser, trustees of Samson United Corporation, assignors to Bickford Bro's. Co., Rochester, N. Y., a corporation of New York

Application April 9, 1948, Serial No. 20,064

3 Claims. (Cl. 99—391)



1. A bread toaster including, in combination, a base, a pair of oppositely disposed vertical side walls supported from and above said base spaced apart to form a toasting oven proportioned to accommodate a plurality of normally dimensioned bread slices disposed edge to edge in a horizontal row, an elongated depressible bread lift disposed to support the bottoms of bread slices within said oven between said side walls above said base, vertical guides outside one of said side walls supported from and above said base, a carrier plate slidably mounted on said guides, spring means urging said carrier plate upward from said base along said guides, a vertical slot in the side wall adjacent said guides, a bracket extending through said slot and connecting said bread lift to said carrier plate, a horizontally extending cam surface on said carrier plate, a crank having its shaft substantially perpendicular to said carrier plate rotatably supported from and above said base, a cam at the outer end of said crank engaging said cam surface, a latch arm supported from said base substantially parallel to said guides and pivoted at the top thereof, a spring detent on said arm spaced from said pivot, timing mechanisms supported from said base beneath said oven engaging said arm below said detent, and a dog on said carrier plate engaging one edge of said latch arm and adapted to engage said detent when said carrier plate is depressed.

2,669,926

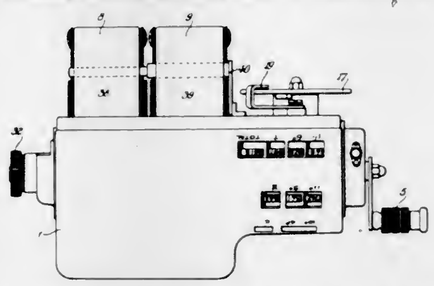
MACHINE FOR PRINTING AND ISSUING TICKETS, LABELS, AND THE LIKE

Harold F. Ford, Cirencester, England, assignor to "T. I. M." (Ticket-Issue Machines) Limited, Cirencester, England, a British company

Application June 9, 1950, Serial No. 167,231

4 Claims. (Cl. 101—66)

1. A machine of the kind described for printing and issuing tickets, labels, receipts or the like comprising two rotary printing drums, a manually-operated shaft providing a common support for said drums, a paper roll magazine for each of said printing drums, means mounting said magazines adjacent to said printing drums, paper rolls, means for ensuring the correct positioning of paper rolls within the magazines, a plurality of printing wheels carrying a plurality of printing dies supported within each of said drums and adjustable independently to present any of said dies at the printing surface of the drum, means for operating simultaneously each of said drums during each revolution of said shaft to draw a supply of paper from its adjacent roll and to impress the dies at its printing surface onto said paper and to deliver the impressed portion thereof from the machine, common setting means for selectively adjusting some of the printing wheels in each drum to present similar dies at the printing surfaces of the drums, and external setting members for operating said common setting means.



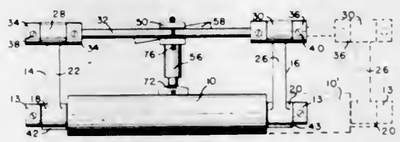
2,669,927

LIQUID CONTROLLING ATTACHMENT FOR WET ROLLERS

Charles H. Ellis, Decatur, Ga.

Application October 20, 1951, Serial No. 252,226

13 Claims. (Cl. 101—148)



1. In a device of the class described, a pair of opposed levers, a short roller rotatably supported on said levers, a connecting member joining said levers, means on said levers for attachment to a machine frame, a first pressure member detachably engaging said connecting member, a second pressure member associated with said first pressure member and having means thereon permitting movement therebetween, said second pressure member having other means thereon for connecting to a machine frame to provide a selectively fixed adjustment support, spring means interposed between said first and second connecting members, and spring adjustment means for varying the pressure exerted by said spring, whereby said roller may be detachably mounted in cooperation with a rotatable wet machine element and the pressure therebetween readily adjusted.

2,669,928

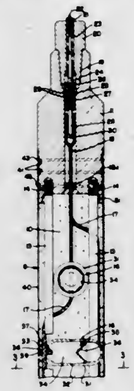
PERFORATING DEVICE FOR WELLS

William G. Sweetman, Houston, Tex.

Application June 15, 1948, Serial No. 33,062

2 Claims. (Cl. 102—20)

1. A perforating gun for use in wells, comprising a metallic head member having a bore therein, a plurality of rods secured to said head member and extending downwardly therefrom, an end piece of easily shatterable material on the lower ends of said rods, a plurality of generally cylindrical shells positioned in vertically spaced relationship between said rods, means securing said shells in engagement with said rods with longitudinal axes of said shells disposed at substantially right angles to said rods, said head member, rods and shells constituting a substantially rigid assembly, an explosive charge positioned in each of said shells with a cavity in one end of the charge, a detonating train connecting said charges and extending into the bore of said head member, and a generally cylindrical body of monolithic cementitious material extending downwardly from said head member to said end piece and embedding said shells, detonating train and rods therein, said cylindrical body and said end piece being substantially completely shatterable under the force of explosion of said charges.



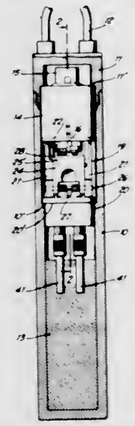
2,669,929

SAFETY DEVICE

George O. Shull and Richard B. Murrow, Los Angeles, Calif.

Application March 13, 1947, Serial No. 734,472

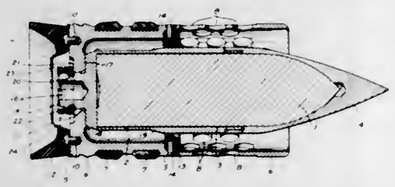
6 Claims. (Cl. 102—20)



1. In a percussion fired bomb of the class described: an enclosed casing; a body of explosive disposed within said casing; a percussion cap disposed in detonating position adjacent said explosive; a firing pin in operative position adjacent said percussion cap; a hammer adapted to strike

said firing pin whereby to fire said percussion cap and detonate said explosive; a spring to urge firing motion of said hammer; a sear to hold said hammer in cocked position; clockwork mechanism to release said sear and to permit firing of said hammer at a predetermined time after the cocking thereof; means in said bomb forming a cavity adjacent said firing pin; mercury disposed within said cavity; means sealing said cavity; and a safety pin having a portion thereof constructed of mercury-soluble material, said pin being adapted to be inserted through said sealing means into said cavity whereby to bring said mercury-soluble portion into contact with said mercury and having a head portion adapted to project beyond said cavity whereby to support said hammer away from said firing pin, said mercury-soluble portion of said pin being proportioned and adapted to be dissolved by said body of mercury within a predetermined period, whereupon to render said safety pin ineffective and to permit said hammer to strike said firing pin.

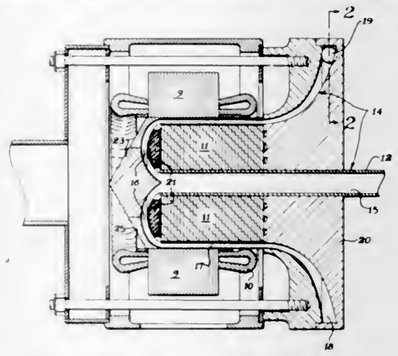
2,669,930
SABOT PROJECTILE
Paul F. Darby, Fairfield, and Thomas R. Kinraide, Bridgeport, Conn., and Robert A. A. Hentschel, Ilion, and John Hammond, Sauquoit, N. Y., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application January 5, 1946, Serial No. 639,174
4 Claims. (Cl. 102—93)



1. In a sabot projectile for rifled guns comprising an assembly of a sabot with a subcaliber projectile; the combination including a sabot having an axially apertured base, flanged means on the sabot provided with a central opening and defining an annular recess surrounding and extending rearwardly from the rear opening of the apertured base, a subcaliber projectile engaging the sabot and having an axial rearward extension provided with a tracer cavity reaching through the aperture in the sabot base, an annular groove in the extension; and centrifugally releasable retaining means comprising segmental retaining shoes engaged between the annular groove and the sabot base, and a plurality of spring rings embracing the shoes, the said recess providing an annular compartment for the reception and carrying of the releasable means when their release has been effected by rotation of the assembly, while allowing said tracer cavity to be rearwardly exposed through said central opening.

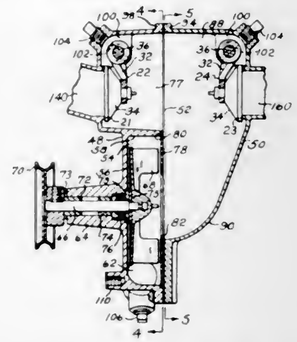
2,669,931
ELECTROMAGNETIC FLUID PUMP
Nat H. Godbold, Idaho Falls, Idaho, assignor to the United States of America as represented by the United States Atomic Energy Commission
Application August 29, 1950, Serial No. 182,121
4 Claims. (Cl. 103—1)

1. An electromagnetic fluid pump comprising an annular polyphase magnetic structure and a fluid duct, said annular magnetic structure comprising an outer annular magnetic member and an inner annular magnetic member, said members being supported with a space therebetween, a polyphase electrical winding supported on the magnetic structure to create a rotating magnetic field which radially traverses the space between the magnetic members, said fluid duct having a first diverging portion, a second diverging portion, and an annular portion, said annular portion being connected at one end to the larger extremity of the first diverging portion and at



the other end to the smaller extremity of the second diverging portion, said fluid duct first diverging portion and annular portion being supported at least in part in the space between the outer and inner members of said magnetic structure, said first diverging portion smaller extremity being a fluid inlet and said second diverging portion larger extremity being a fluid outlet, means electrically connecting the free end of the diverging portion and annular portion whereby said pump when electrically energized is adapted to cause rotation of electrically conductive fluid in said duct.

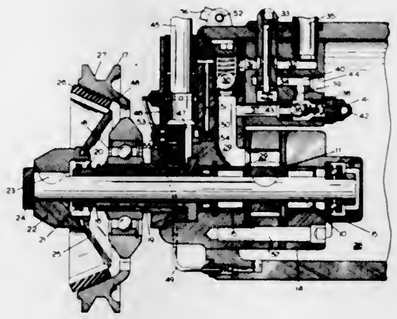
2,669,932
PUMP AND VALVE ASSEMBLY
Elbridge F. Rauscher, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application September 22, 1951, Serial No. 247,869
3 Claims. (Cl. 103—2)



1. In a combination centrifugal pump and valve structure for two-tub centrifugal extractor type washing machines, a casing comprising opposed members joined together substantially on a dividing plane, one of said members having a pump impeller recess having a rear wall facing

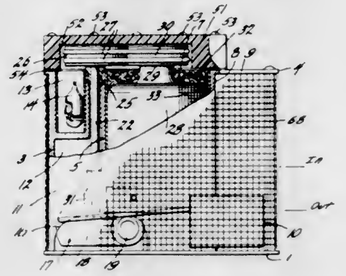
said dividing plane and having an involute wall extending from said plane to said rear wall, bearings in said rear wall, and a pump impeller journaled in said bearings on an axis normal to said dividing plane, an integral discharge outlet conduit extending tangentially from said recess, said one member having a valve chamber radially disposed with respect to said recess on a side of said recess away from said outlet conduit and of a depth greater than the depth of said recess, a portion of said involute wall in part dividing said recess from said chamber, an integral inlet conduit leading to said valve chamber, and terminating in a valve seat within said chamber, and valve means comprising a rock shaft, valve arm, and valve member journaled in the valve chamber portion of said casing member for movement of said valve member into and out of seating engagement with said valve seat, and the other casing member comprising a pump recess closure plate portion of a contour adapted to cover said recess, said plate portion having a pump inlet duct extending axially away from the recess and radially beyond the plate portion, said inlet duct forming a valve chamber complemental to the valve chamber of the first-named member, said plate portion being centrally and radially open to said inlet duct, said other casing member having an integral inlet conduit leading into the valve chamber portion thereof and terminating in a valve seat, and valve means mounted within said last-named valve chamber portion for engaging said seat.

2,669,933
HYDRAULIC PUMP
Fred R. Bayles, Waukesha, Wis., assignor, by mesne assignments, to Gar Wood Industries, Incorporated, a corporation of Michigan
Application March 17, 1948, Serial No. 15,349
9 Claims. (Cl. 103—23)



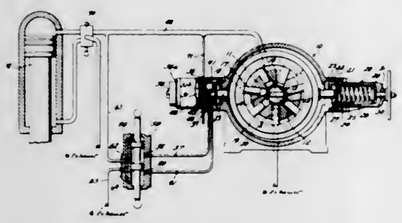
1. A hydraulic pump unit comprising in combination a pump body, a reservoir, a pair of shafts mounted within said body, one of said shafts employed as a drive shaft, the other employed as a driven shaft, a pair of inter-meshing gears, said gears mounted on said shafts, said pump body provided with a main inlet and outlet port, said intermeshing gears forcing fluid from said inlet to said outlet port, said outlet port provided with a check valve disposed therein, a slidably mounted plunger in a cylinder inserted into said outlet port, said plunger provided with a groove around its outer periphery, an auxiliary outlet tube extending from said plunger cylinder to said reservoir, said plunger being movable to permit alignment of said groove with said auxiliary outlet tube and main outlet port, a pressure regulator, said regulator provided with a resiliently adjustable valve, said regulator having an inlet leading from said main outlet port, and an outlet leading to said auxiliary tube, an auxiliary cylinder, a clutch actuating piston disposed within said auxiliary cylinder, said drive shaft extending outward from said pump body, a clutch member attached to said drive shaft, a sleeve slidably disposed over said drive shaft between said clutch and said pump body, a pulley, said pulley rotatably mounted to said sleeve, a resilient means disposed around one end of said drive shaft in abutting relation with said sleeve, one end of said resilient means being restricted against longitudinal movement relative to the said one end of said drive shaft, and a tubular port leading from the other end of said sleeve to said auxiliary cylinder, thereby permitting said sleeve to be moved hydraulically against said resilient means when the piston is moved downward in said auxiliary cylinder.

2,669,934
SUBMERSIBLE AUTOMATIC BILGE PUMP
Richard R. Lovett, Jr., Longport, N. J.
Application March 12, 1952, Serial No. 276,086
11 Claims. (Cl. 103—26)



1. In a submersible automatic bilge pump, a casing having a top plate and an integral well, closed at its bottom and depending from said top plate, the side walls of said casing being tangent to said well and forming a trapped air chamber under a part of the top plate and partially around said well; a vertically positioned motor in said well and having its drive-shaft extending upwardly through and above the said top plate; a centrifugal pump also having its drive-shaft located in said trapped air chamber and the upper end of said shaft extending through said top plate; means extending between the drive-shaft of the motor and the pump shaft for driving said pump shaft; a hermetically sealed dome secured to and extending over the said top plate and housing said above-mentioned means; an electric switch remote from the water level in circuit with said motor; a float mechanism including a rod connected to said switch for cutting in and out said switch as the water rises and falls above the bilge pump; an electric feed cable passing through the trapped air chamber and the said top plate and connected to said switch and said motor above the said trapped air chamber; and the said rod connecting said switch and the said pump shaft also passing through said trapped air chamber into said hermetically sealed dome.

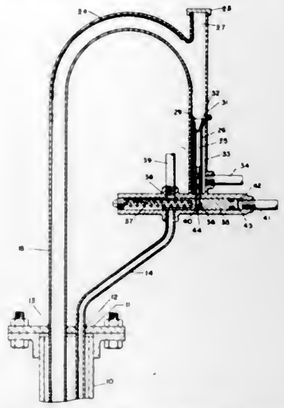
2,669,935
HYDRAULICALLY ACTUATED SHIFT CONTROL FOR HYDRAULIC PUMPS
Warren R. Tucker, Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Mount Gilead, Ohio, a corporation of Delaware
Application August 4, 1951, Serial No. 240,341
6 Claims. (Cl. 103—38)



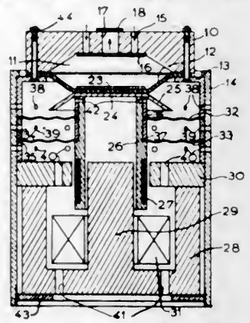
1. In a control for regulating the volumetric output of a variable delivery hydraulic pump automatically in response to pressure conditions within the discharge of the pump, a flow-controlling member movable within said pump between a no-delivery position and a full delivery position; spring means arranged on one side of the flow-controlling member of the pump and urging the latter toward its full delivery position; a fluid-pressure-responsive member engaging the flow-controlling member on the side thereof opposite said spring means; means for establishing communication between said fluid-pressure-responsive member and the discharge of the pump, said pressure-responsive member being operable, in response to the attainment of a given high pressure within the discharge of the pump, to move the flow-controlling member of the pump from its full delivery position to its no-delivery position; and other resiliently compressible spring means engageable with said pressure-responsive member only when the pressure within the discharge of said pump is below a given low pressure for causing said pressure-responsive member to move the flow-controlling member of the pump from its full delivery position to an intermediate delivery position.

2,669,936
APPARATUS FOR PUMPING WELLS
Lloyd E. Elkins, Renic P. Vincent, and Henry Schaefer, Tulsa, Okla., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application May 7, 1952, Serial No. 286,516
9 Claims. (Cl. 103—52)

1. A pump for lifting well fluids from a well comprising parallel production tubing and power tubing extending into said well below the working fluid level therein, said production tubing and said power tubing being of substantially different sizes, means at each end for connecting said power tubing and said production tubing together as a continuous elongated conduit, a constriction in said power tubing at about said working fluid level of said well, an inlet for well fluids below said constriction for admitting well fluids into said conduit within said well, a standing valve in said inlet, a multiplicity of plungers in said conduit, a plunger injector for delivering said plungers in series into the upper end of said power tubing, means to inject lifting gas into said power tubing behind each of said plungers and means at the upper end of said elongated conduit for separating said plungers from said well fluids and discharging said well fluids from said conduit.



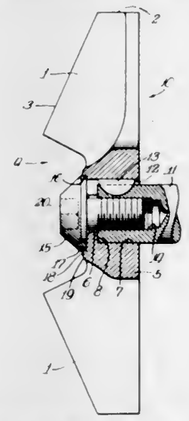
2,669,937
RECIPROCATING PUMP
Shelley Presentey, Bordeaux, France
Application November 8, 1950, Serial No. 194,587
Claims priority, application France June 23, 1950
15 Claims. (Cl. 103—53)



1. A fluid pump device comprising a casing, a head-plate, a recess in said plate, a flexible diaphragm, means for peripherally clamping said diaphragm around said recess, said recess and said diaphragm defining a variable volume chamber, intake and delivery valve means adapted to this chamber, a cap member of a shape conformed to that of said recess and secured to a central portion of said diaphragm outside of said chamber, a magnet integral with said casing and providing a magnetic circuit including an air-gap, a hollow nonmagnetic bobbin adapted to reciprocate through said air-gap and coupled to said cap, an electric coil wound on said bobbin to reciprocate in and through said air-gap and means for supplying periodical electric current to said coil.

2,669,938
IMPELLER AND SHAFT CONSTRUCTION
Harry E. La Bour, Elkhart, Ind., assignor to The La Bour Company, Inc., Elkhart, Ind., a corporation of Indiana
Application February 19, 1953, Serial No. 337,750
1 Claim. (Cl. 103—115)

An impeller having a shaft side and an inlet side, and having a central hub portion with impeller blades extending outwardly substantially in a plane at right angles to the axis of the hub portion, said hub portion having a bore extending axially through the same, and having a cylindrical counterbore which extends through the main part of the axial length of the hub and provides a cylindrical guiding surface for a driving shaft, said hub having at the junction of said bore and said counterbore an annular radially extending shoulder disposed substantially in a plane at right angles to the axis of the hub, said hub having a keyway which extends along the length of the inside surface of the hub, said hub having on its inlet side an annular seat disposed substantially in a plane parallel to the plane of said annular shoulder and recessed into the face of the hub, a driving shaft received into said



counterbore and guided on said cylindrical surface, said shaft having a key recessed into the same, said key projecting into said keyway, the end surface of the shaft being disposed substantially in a plane at right angles to the longitudinal axis of the shaft and engaging on its full diameter endwise against said annular shoulder, said shaft having an axial socket screw threaded to receive a fastening screw, and a fastening screw having a threaded shank threaded into said socket and having a head provided with a substantially flat annular clamping face of greater radial extent than the radial extent of the shaft for engaging said annular seat, said head being circular and having a peripheral recess into which metal of the hub is projected by plastic displacement.

2,669,939
DEEP WELL PUMP
Richard N. Vickers, Smackover, Ark.
Application July 10, 1951, Serial No. 236,033
2 Claims. (Cl. 103—155)

1. In a deep well pump, a pump assembly including a bypass unit provided at its lower end with a recess and having an external supporting flange, said unit being cored axially to provide an outlet chamber intersecting said recess and being formed with an inclined outlet passage sloping upwardly from said chamber to open through the periphery of said unit at a point above said flange, an outlet valve mounted in said outlet chamber at the lower end of said inclined outlet passage and controlling back-flow through said outlet passage, an imperforate valve cage connected to the lower end of said unit and open at its ends but closed at its periphery, a standing valve mounted in the cage near the lower end thereof and controlling back-flow through the cage, the upper end of the cage being provided with a recess registering with the recess at the lower end of said unit to provide a receiving chamber communicating with said outlet chamber but closed by the cage to exclude the return of pumped liquid through the periphery of the



cage into said receiving chamber, said unit being provided internally with a vertical bypass passage leading from the upper end of said unit into said receiving chamber, and means in communication with the upper end of said unit and operable to pump a liquid upwardly through said assembly as well as force the pumped liquid back through said assembly for discharge at a point of exit.

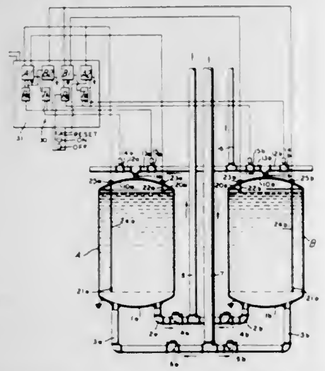
2,669,940
SUCKER ROD SAND TRAP
Wilfred S. Crake, Kilgore, Tex., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware
Application May 24, 1952, Serial No. 289,813
7 Claims. (Cl. 103—220)



1. In a well pumping installation comprising a production tubing suspended in the well for conveying well fluid to the surface and a reciprocating-type well pump positioned in the lower end of tubing, the combination of a sucker rod string suspended within the production tubing, the lower end of said sucker rod string being affixed to the pump for reciprocating said pump in a vertical plane, and sand-trapping means secured to the sucker rod string above said well pump for

catching sand settling in the tubing when the pump is not reciprocating, said sand-trapping means comprising substantially flat flexible disc means having an axial hole therethrough in which the sucker rod string may be positioned, said disc means extending transversely in said tubing and having a diameter substantially equal to the inner diameter of said tubing.

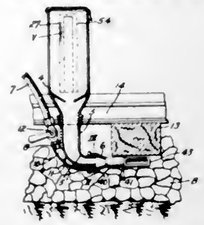
2,669,941
CONTINUOUS LIQUID PUMPING SYSTEM
John W. Stafford, Hohokus, N. J.
Application December 15, 1949, Serial No. 133,119
6 Claims. (Cl. 103—241)



1. A continuously operative liquid pumping system comprising two tanks each having separate conduits adapted respectively to take in liquid from and to discharge the liquid to a feed line and a discharge line common to the two tanks, each tank having at its top an intake for compressed air and a vent for releasing air pressure from the respective tank, the respective air intakes and vents having electrically actuated valves for opening and closing the same, liquid level responsive motivating elements at fixed upper and lower locations in each tank, and electrical control mechanism actuated by said elements to actuate the valves automatically in response to changes of liquid level affecting said elements and including means operative to open the air intake valve in one tank when the liquid level falls below the lower motivating element in the other tank and to open the vent valve in the other tank a predetermined time interval after the opening of the air intake valve in the one tank so as to maintain a continuous flow of liquid from the tanks through the discharge line.

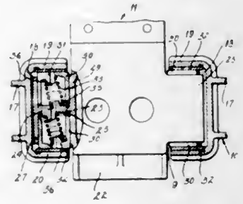
2,669,942
PNEUMATIC BALLAST TAMPER
Auguste Scheuchzer, Lausanne, Switzerland
Application December 7, 1950, Serial No. 199,616
Claims priority, application Switzerland December 12, 1949
1 Claim. (Cl. 104—11)

Apparatus for conveying fine gravel to and compacting it within cavities under the sleepers of a railroad track by means of compressed air, comprising in combination, a fine gravel storage vessel having an aperture in a vertical side wall closed by a plate of transparent material carrying volumetric graduations, said storage vessel having an opened bottom, an intermediary conveying pipe curved at a right angle and having an inlet vertical end portion connected to said vessel bottom and an outlet opening, a flat air channel secured to said conveying pipe provided with an inlet aperture and with a vertical medial longitudinal partition over a downstream part of its length so as to form at its outlet end two horizontally juxtaposed flattened orifices arranged underneath said outlet opening of the conveying pipe over the whole width of said latter opening, an ejection nozzle having an inlet mouth connected to said



outlet opening and said two flattened orifices, said ejection nozzle being provided with a horizontal straight flat first portion followed by a second portion curved substantially at a right angle in a horizontal plane, said second portion being provided with an ejecting orifice adapted to direct the fine gravel lengthwise with respect to a raised sleeper, after the ejection nozzle has been introduced under a lateral side of said sleeper.

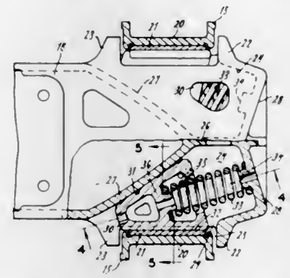
2,669,943
RAILWAY TRUCK BOLSTER ASSEMBLY
Fred H. Spenner, St. Louis, Mo., assignor to Scullin Steel Co., St. Louis, Mo., a corporation of Missouri
Application October 16, 1950, Serial No. 190,285
1 Claim. (Cl. 105—197)



A bolster assembly: comprising an elongated bolster end with top, bottom and side walls, lugs integral with said bolster side walls and projecting laterally outwardly therefrom, each lug having a pair of oppositely opening pockets separated by a medial wall, said medial wall having seats on its opposite faces; and friction means in each lug pocket including a shoe having flat faces in sliding engagement in said lug pocket and an exposed flat end face with a seat on the inner side thereof, and a spring for each of said friction shoes with its ends seated between said medial wall seat and inner side seat of the shoe end face, said seats for the ends of said spring being similarly located in the longitudinal plane of said bolster and spaced different distances from said bolster side wall.

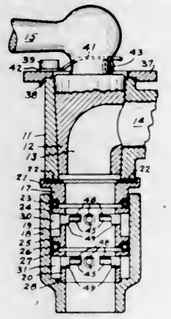
2,669,944
RAILWAY CAR TRUCK CONSTRUCTION
Fred H. Spenner, St. Louis, Mo., assignor to Scullin Steel Co., St. Louis, Mo., a corporation of Missouri
Application December 6, 1950, Serial No. 199,441
1 Claim. (Cl. 105—197)

In a railway car truck, a side frame having a bolster opening between spaced vertically directed columns, a bolster having its end portion spring supported in said opening, said bolster having a pocket on each side of its longitudinal center line and adjacent the bolster end, each pocket opening adjacent a side frame column and having a pair of walls in fixed spaced relation and angularly related with the face of the adjacent column and a wall forming the pocket floor, a



shoe element in each pocket having angularly related surfaces frictionally engaging one of said angular pocket walls and the adjacent column face, and spring means bearing on the other of said angular pocket walls and said shoe to hold said shoe in engagement, said shoe being carried on said pocket floor and said spring means being free to exert a substantially constant force on said shoe.

2,669,945
MEANS FOR STRIPING AND RIBBONING ICE CREAM
Charles W. Wildebour, Seattle, Wash.
Application January 27, 1951, Serial No. 208,115
7 Claims. (Cl. 107—1)



1. In ice cream striping and ribboning means, an upright tubular ice cream discharge conduit having a plurality of relatively small perforations disposed in spaced apart relation around said conduit and extending from exterior to interior thereof; a ribboning material inlet tube extending through a wall of said conduit and protruding into said conduit and having an upwardly directed discharge opening for ribboning material positioned within said conduit; manifold chamber means external to said ice cream discharge conduit and embracing said perforations and the inlet to said ribboning material inlet tube; and means adapted to supply striping and ribboning material under pressure to said manifold chamber means, whereby the striping and ribboning material will be forced inwardly through said perforations and said tube for striping and ribboning ice cream which is passing through said tubular ice cream discharge conduit.

2,669,946
APPARATUS FOR MAKING VARIEGATED ICE CREAMS AND THE LIKE
Norman I. Peyton, Baltimore, Md., assignor to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware
Application February 20, 1951, Serial No. 211,883
4 Claims. (Cl. 107—1)

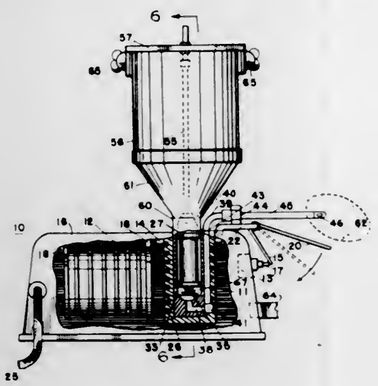


1. Apparatus for making a variegated product comprising an upper chamber and a lower chamber in axial alignment, the upper chamber having an inlet through which a flavoring material may be received under pressure, the lower chamber having an inlet for receiving under pressure a basic substance and an outlet for discharging the composite moving stream of material, an apertured baffle plate separating the two chambers having a delivery tube depending from each aperture thereof, a tubular extension mounted axially below the outlet of said lower chamber having a stationary pattern-making dispersing disk mounted within and provided with a reduced axial opening having a series of spaced arms extending thereacross adapted to create a turbulence in said moving stream, and an extension mounted below said dispersing disk having a diameter greater than the opening through said disk and of a length sufficient to permit said moving stream of composite material to reform.

2,669,947
DOUGHNUT FILLING MACHINE
Dallas D. Ballew, Baltimore, Md.
Application January 7, 1953, Serial No. 330,100
6 Claims. (Cl. 107—1)

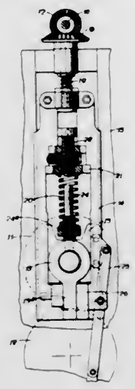
1. A filling dispenser comprising in combination, a base, a solenoid unit mounted on said base, a core-like plunger operable within said solenoid unit and hollowed out to receive and dispense filling material, a filling tank connected with said plunger for guiding said material therethrough into said plunger, and a spout connected to said filling tank for delivering said material therefrom as the plunger operates therein, means for delivering the material to said plunger, said plunger being operable reciprocatably in said filling tank and the core of said plunger being hollowed out to provide a longitudinal passage therethrough from the said head to the bottom of said plunger and the connection to said spout, said filling tank including a passage arranged to permit the plunger to reciprocate therein and a wall at a predetermined portion of said passage having an orifice therein for connection to said spout

as aforesaid, a switch and electrical circuit means for operating the solenoid positioned on said base adjacent to the location of said spout to permit



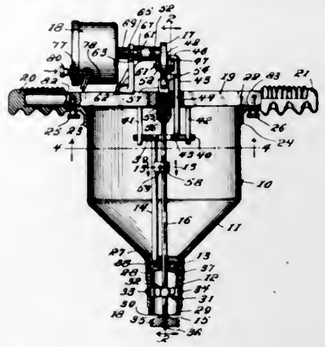
facile access thereto while filling said article, said means including a resilient handle mechanism mounted on the base and actuated as the article to be filled is brought against said spout.

2,669,948
SQUEEZE ROLLER APPARATUS
Joseph Francis Naylor, Newton-le-Willows, England, assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England, a British company
Application October 30, 1951, Serial No. 253,817
Claims priority, application Great Britain November 6, 1950
4 Claims. (Cl. 107—12)



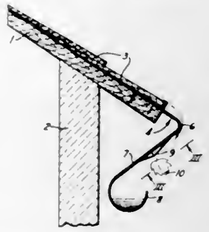
1. In a squeeze roller apparatus, in combination a frame, a pair of slide blocks, a pair of blocks slidably mounted on the said slideblocks, a first squeeze roller carried in said blocks, a second squeeze roller, means to displace said slideblocks towards and away from said second squeeze roller whereby to vary the minimum clearance between the peripheral surfaces of said squeeze rollers, means to urge resiliently said blocks towards the second squeeze roller, and an adjustable stop device disposed intermediate a slideblock and a block whereby to vary the maximum clearance between said squeeze rollers.

2,669,949
DOUGHNUT MAKING MACHINE
Morrison Cottingham, Shreveport, La., assignor to W. R. Stephens Investment Company, Inc., Little Rock, Ark., a corporation of Arkansas
Application October 18, 1951, Serial No. 251,946
3 Claims. (Cl. 107—14)



1. A doughnut forming unit for use on a dough hopper having a vertically disposed depending spout comprising upper and lower vertically spaced discs positioned to slide longitudinally in said spout, a mounting bar positioned on the hopper, spaced vertically disposed pins depending from said mounting bar, a cross bar slidably mounted on said pins, means connecting the cross bar to the upper disc, a cam journaled on the mounting bar, a roller mounted on one side of the cam, a rod having a horizontally disposed channel on the upper end extended from the cross bar, slidably mounted in the mounting bar, and positioned whereby the channel extends over the roller of the cam, a rod extended upwardly from the lower disc, through the upper disc, and having a roller journaled in the upper end, means resiliently urging the rod with the roller thereon upwardly with the roller engaging the surface of the cam, and means for rotating the cam.

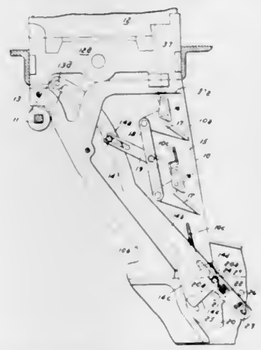
2,669,950
NONCLOGGING EAVES STRUCTURE
George A. Bartholomew, Pittsburgh, Pa.
Application October 8, 1952, Serial No. 313,731
7 Claims. (Cl. 108—28)



1. In an eaves structure, wherein a sheet metal strip which is adapted to extend along the lower edge of a roof above a trough with one edge of the strip attached to the roof is bent lengthwise to form upper and lower inclined portions diverging from a connecting curved portion beyond the roof so that water from the roof can flow around the outside of said curved portion and down the lower surface of said lower inclined portion to the trough, a plurality of laterally spaced projections on the lower surface of said inclined lower portion of the strip for stripping

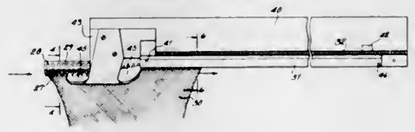
flexible leaves and the like from said surface so that they will drop away from it before reaching the trough.

2,669,951
PLANTER VALVE
Robert L. Erwin, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application November 23, 1951, Serial No. 257,885
1 Claim. (Cl. 111—51)



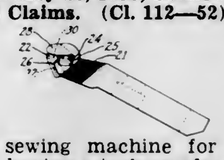
In a planter having a housing and a seed chute in the housing, a valve element mounted in the housing for rotatable movement between a loading and a discharging position, said valve element having a seed receiving pocket constructed and arranged to intercept the seed chute in the loading position of said valve element, an actuator mounted in the seed chute for reciprocable movement, and crank means for reciprocating said actuator; the improvement comprising a pin secured to said valve element, said actuator having a slot receiving said pin, said slot extending in general alignment with the path of reciprocable movement of said actuator, a spring operatively connected between said actuator and said valve element, said spring having one end thereof connected to said pin and being disposed to assume an over-center relationship with respect to the rotary axis of said valve element at a position of said valve element intermediate said loading and discharge positions, and means on said actuator detachably engageable with said valve element for initiating rotation of said valve element toward discharging position.

2,669,952
METHOD AND APPARATUS FOR SEWING THE LOOPS AT THE TOE OF CIRCULAR KNIT HOSE
James L. Getaz, New York, N. Y.
Application August 17, 1950, Serial No. 179,980
13 Claims. (Cl. 112—27)



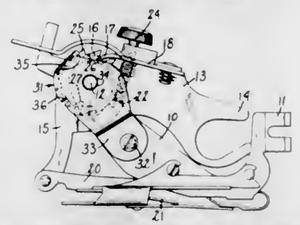
1. In the manufacture of knitted hosiery, the method of closing the toe of circular knit hose, the loops of the looper course of which are held upon the prongs of a flexible band, which comprises bringing together two portions of said band to superimpose the individual loops on one portion respectively upon those on the other portion, moving said prongs in opposite directions through angles sufficient to expose said loops to a needle, drawing a threaded needle through successive opposing pairs of said loops and forming stitches with said needle.

2,669,953
SHOE SEWING MACHINE
Raymond L. Slinkard, Cape Girardeau, Mo., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 20, 1950, Serial No. 163,279
3 Claims. (Cl. 112—52)



1. A shoe sewing machine for attaching a wrapper strip having a tacky surface to the marginal flange on a shoe projecting beyond the bulge of the upper, having a needle and a presser foot for clamping the work in sewing position, in combination with a work support provided with an integral confining guide for a nontacky welt, to one edge of which the wrapper strip is secured, an overlying apron on the work support terminating at the point of operation of the needle to prevent contact between the wrapper strip and the shoe flange until the sewing point is reached and a gaging surface on said guide inclined relatively to the seam line toward the shoe in the direction of work feed to induce widthwise squeezing action on the welt tending to press the wrapper strip against the bulge of the upper as the shoe is fed.

2,669,954
RUFFLER
Herbert H. Russell, New Haven, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut
Application August 27, 1952, Serial No. 306,530
2 Claims. (Cl. 112—135)

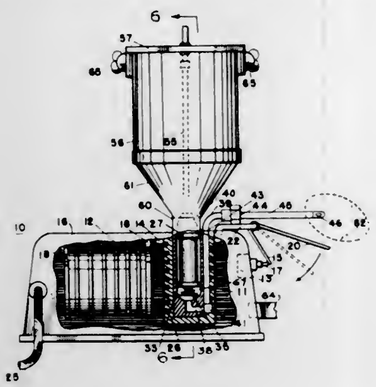


1. A sewing machine attachment comprising a frame, a fork arm pivoted thereon, a ratchet wheel rotatably mounted on the frame for operation by the fork arm, and means for removably holding said ratchet wheel in place, comprising a retaining member pivoted on the frame to be moved to and from a position overlying the ratchet wheel, and said retaining member having a pawl thereon to engage the teeth of the ratchet wheel and prevent reverse rotation thereof.

2,669,955
PLEAT FORMING DEVICE
Abraham Gellman, New York, N. Y.
Application February 10, 1953, Serial No. 336,147
10 Claims. (Cl. 112—136)

2. A pleat-forming device comprising an elongated plate having a longitudinal working edge

as aforesaid, a switch and electrical circuit means for operating the solenoid positioned on said base adjacent to the location of said spout to permit



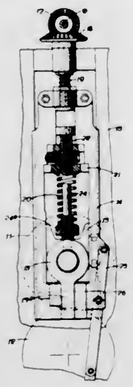
facile access thereto while filling said article, said means including a resilient handle mechanism mounted on the base and actuated as the article to be filled is brought against said spout.

2,669,948

SQUEEZE ROLLER APPARATUS

Joseph Francis Naylor, Newton-le-Willows, England, assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England, a British company

Application October 30, 1951, Serial No. 253,817
Claims priority, application Great Britain November 6, 1950
4 Claims. (Cl. 107—12)



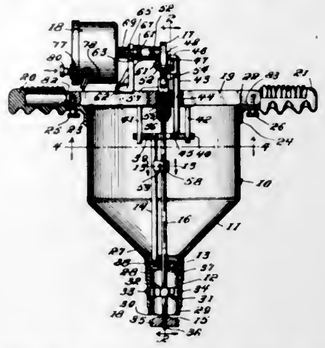
1. In a squeeze roller apparatus, in combination a frame, a pair of slide blocks, a pair of blocks slidably mounted on the said slideblocks, a first squeeze roller carried in said blocks, a second squeeze roller, means to displace said slideblocks towards and away from said second squeeze roller whereby to vary the minimum clearance between the peripheral surfaces of said squeeze rollers, means to urge resiliently said blocks towards the second squeeze roller, and an adjustable stop device disposed intermediate a slideblock and a block whereby to vary the maximum clearance between said squeeze rollers.

2,669,949

DOUGHNUT MAKING MACHINE

Morrison Cottingham, Shreveport, La., assignor to W. R. Stephens Investment Company, Inc., Little Rock, Ark., a corporation of Arkansas

Application October 18, 1951, Serial No. 251,946
3 Claims. (Cl. 107—14)



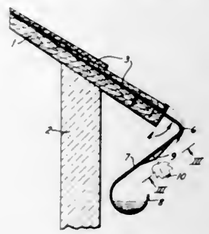
1. A doughnut forming unit for use on a dough hopper having a vertically disposed depending spout comprising upper and lower vertically spaced discs positioned to slide longitudinally in said spout, a mounting bar positioned on the hopper, spaced vertically disposed pins depending from said mounting bar, a cross bar slidably mounted on said pins, means connecting the cross bar to the upper disc, a cam journaled on the mounting bar, a roller mounted on one side of the cam, a rod having a horizontally disposed channel on the upper end extended from the cross bar, slidably mounted in the mounting bar, and positioned whereby the channel extends over the roller of the cam, a rod extended upwardly from the lower disc, through the upper disc, and having a roller journaled in the upper end, means resiliently urging the rod with the roller thereon upwardly with the roller engaging the surface of the cam, and means for rotating the cam.

2,669,950

NONCLOGGING EAVES STRUCTURE

George A. Bartholomew, Pittsburgh, Pa.

Application October 8, 1952, Serial No. 313,731
7 Claims. (Cl. 108—28)



1. In an eaves structure, wherein a sheet metal strip which is adapted to extend along the lower edge of a roof above a trough with one edge of the strip attached to the roof is bent lengthwise to form upper and lower inclined portions diverging from a connecting curved portion beyond the roof so that water from the roof can flow around the outside of said curved portion and down the lower surface of said lower inclined portion to the trough, a plurality of laterally spaced projections on the lower surface of said inclined lower portion of the strip for stripping

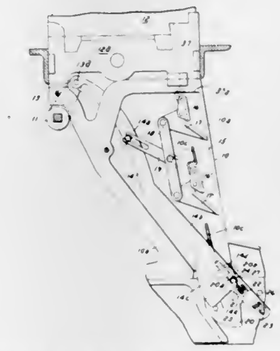
flexible leaves and the like from said surface so that they will drop away from it before reaching the trough.

2,669,951

PLANTER VALVE

Robert L. Erwin, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware

Application November 23, 1951, Serial No. 257,885
1 Claim. (Cl. 111—51)



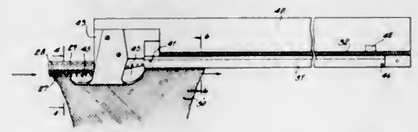
In a planter having a housing and a seed chute in the housing, a valve element mounted in the housing for rotatable movement between a loading and a discharging position, said valve element having a seed receiving pocket constructed and arranged to intercept the seed chute in the loading position of said valve element, an actuator mounted in the seed chute for reciprocable movement, and crank means for reciprocating said actuator; the improvement comprising a pin secured to said valve element, said actuator having a slot receiving said pin, said slot extending in general alignment with the path of reciprocable movement of said actuator, a spring operatively connected between said actuator and said valve element, said spring having one end thereof connected to said pin and being disposed to assume an over-center relationship with respect to the rotary axis of said valve element at a position of said valve element intermediate said loading and discharge positions, and means on said actuator detachably engageable with said valve element for initiating rotation of said valve element toward discharging position.

2,669,952

METHOD AND APPARATUS FOR SEWING THE LOOPS AT THE TOE OF CIRCULAR KNIT HOSE

James L. Getaz, New York, N. Y.

Application August 17, 1950, Serial No. 179,980
13 Claims. (Cl. 112—27)



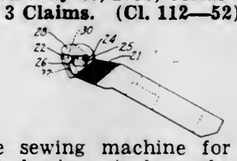
1. In the manufacture of knitted hosiery, the method of closing the toe of circular knit hose, the loops of the looper course of which are held upon the prongs of a flexible band, which comprises bringing together two portions of said band to superimpose the individual loops on one portion respectively upon those on the other portion, moving said prongs in opposite directions through angles sufficient to expose said loops to a needle, drawing a threaded needle through successive opposing pairs of said loops and forming stitches with said needle.

2,669,953

SHOE SEWING MACHINE

Raymond L. Slinkard, Cape Girardeau, Mo., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application May 20, 1950, Serial No. 163,279
3 Claims. (Cl. 112—52)



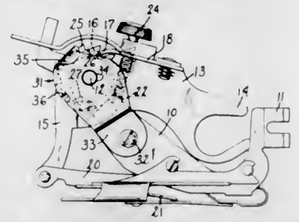
1. A shoe sewing machine for attaching a wrapper strip having a tacky surface to the marginal flange on a shoe projecting beyond the bulge of the upper, having a needle and a presser foot for clamping the work in sewing position, in combination with a work support provided with an integral confining guide for a nontacky welt, to one edge of which the wrapper strip is secured, an overlying apron on the work support terminating at the point of operation of the needle to prevent contact between the wrapper strip and the shoe flange until the sewing point is reached and a gaging surface on said guide inclined relatively to the seam line toward the shoe in the direction of work feed to induce widthwise squeezing action on the welt tending to press the wrapper strip against the bulge of the upper as the shoe is fed.

2,669,954

RUFFLER

Herbert H. Russell, New Haven, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut

Application August 27, 1952, Serial No. 306,530
2 Claims. (Cl. 112—135)



1. A sewing machine attachment comprising a frame, a fork arm pivoted thereon, a ratchet wheel rotatably mounted on the frame for operation by the fork arm, and means for removably holding said ratchet wheel in place, comprising a retaining member pivoted on the frame to be moved to and from a position overlying the ratchet wheel, and said retaining member having a pawl thereon to engage the teeth of the ratchet wheel and prevent reverse rotation thereof.

2,669,955

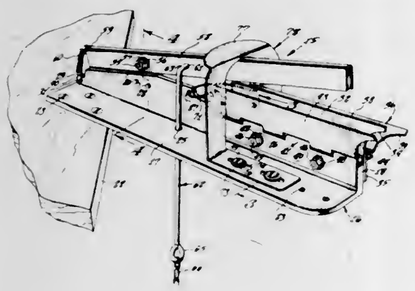
PLEAT FORMING DEVICE

Abraham Gellman, New York, N. Y.

Application February 10, 1953, Serial No. 336,147
10 Claims. (Cl. 112—136)

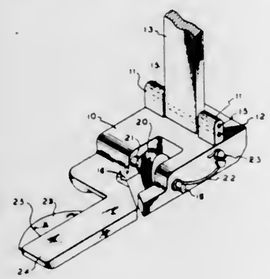
2. A pleat-forming device comprising an elongated plate having a longitudinal working edge

adapted to receive the fabric thereon, an elongated member of substantially U-shaped cross section pivotally mounted adjacent one end of said plate and adapted to be rotated against said plate receiving said longitudinal edge and fabric therebetween whereby to form a first U-shaped pleat in the fabric, spring means connected to said member for normally retaining said member out of engagement with said plate, foot-actuable means connected to the member for moving said member about its pivot against



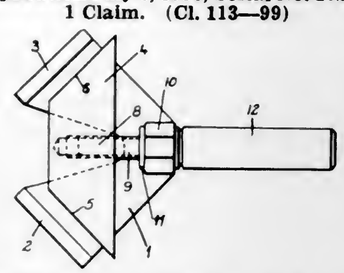
the urgement of said spring means into engagement with said plate, a pair of second plates rotatably mounted on opposite sides of said first plate near the other longitudinal edge thereof and adapted to be rotated against opposite sides of said member when the latter is in engagement with said first plate whereby to form second and third pleats in the fabric alongside the first pleat and spring means for normally retaining said second pair of plates in spaced rotation to said first plate and said member.

2,669,956
BLIND STITCHING ATTACHMENT FOR SEWING MACHINES
William C. Haines, La Salle, Ill.
Application August 24, 1950, Serial No. 181,134
19 Claims. (Cl. 112—140)



19. A blind stitching attachment for a sewing machine comprising a presser foot, means on said foot for attaching same to the presser bar of the machine, said foot having a material fold guiding means extending longitudinally on the bottom face thereof, said foot having a needle receiving aperture extending through the body thereof, a wall of said aperture overlying said guide means in part, and deflecting means on said foot above the material guiding means adapted to deflect the point of a needle towards said guiding means as it passes through said aperture.

2,669,957
WELDING CLAMP
Hans Joachim de Vogt, Solingen-Ohligs, Germany
Application July 6, 1950, Serial No. 172,349
1 Claim. (Cl. 113—99)

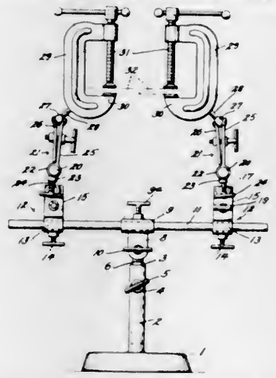


A welding vise comprising a base, a pair of arms diverging from said base in a forward direction and substantially at right angles to one another with a substantial space therebetween, a vertical flange secured to the forward end of each of said arms, said flanges being angularly disposed with respect to but spaced from each other and converging in a forward direction to provide a pair of rearwardly directed clamping surfaces, a threaded bolt, an open-slotted boss on the rearward portion of said base for mounting said bolt for rotation about its longitudinal axis, said bolt extending forwardly in a direction substantially bisecting the angle between said arms and having its forward end overlying said space, handle means for rotating said bolt, enlargements on said bolt on either side of the boss for holding the bolt against longitudinal movement while being turned, a clamping member having an internally threaded bore therein, said bore being closed at its forward end, said bolt being threadedly engaged in said bore to move said clamping member in the direction of the longitudinal axis of said bolt and parallel with said base, said clamping member being in the shape of a truncated triangle whose spaced truncated converging sides form a pair of spaced forwardly disposed vertical clamping surfaces cooperating in a substantially parallel relationship with the rearwardly directed clamping surfaces of said flanges.

2,669,958
WELDER'S WORK-HOLDING APPLIANCE
Charles W. Sweeney, Columbus, Ohio, assignor of fifteen per cent to Joseph R. Hague, Columbus, Ohio
Application April 18, 1951, Serial No. 221,589
2 Claims. (Cl. 113—104)

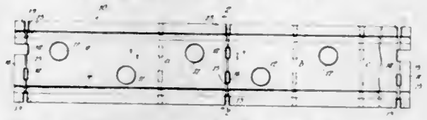
1. Welder's workpiece clamping apparatus comprising a base, a vertically adjustable stem arising from said base, securing means maintaining said stem in various positions of vertical adjustment with respect to said base, a lower tubular fitting, a horizontal pivot connection uniting said stem and fitting, fastening means operative to maintain said fitting in various positions of adjustment about its pivotal connection with said stem, a lower supporting rod slidably carried by said fitting for longitudinal and rotative adjustment with respect thereto, a lower pair of spaced upstanding clamping brackets slidably mounted on said rod for relative longitudinal and rotative adjustment thereon, a pair of upper tubular fittings, an upper supporting rod mounted for longitudinal and rotative adjustment in each of said upper fittings, a ball and socket connection uniting each of said upper fittings with one of said

clamping brackets, a pair of upper clamping brackets mounted for relative longitudinal and rotative adjustment on each of said upper supporting rods, each of said upper clamping brackets including a wing and a separable plate formed with registering socket-providing depressions, a plurality of work-engaging clamps, each of said clamps including a rigid angularly and



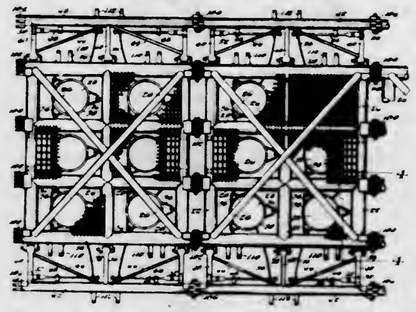
downwardly projecting stem formed at its lower end with a spherical head, the head of each of said stems being adjustably received in the wing and plate depressions of said upper brackets, means for adjustably clamping the plate of each of said upper brackets to the complemental wing thereof in holding an associated clamp in adjusted positions relative to the upper bracket carrying the same.

2,669,959
MULTIPLE FLANGED FIN FOR HEAT EXCHANGERS AND METHOD OF PRODUCING INDIVIDUAL FINS
Benjamin Spieth, Racine, Wis., assignor to Modine Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application October 24, 1947, Serial No. 781,823
3 Claims. (Cl. 113—118)



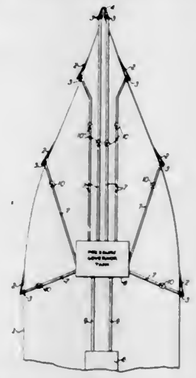
1. In a multiple length flanged fin for heat exchangers, the combination of an elongated metal fin strip having a plurality of longitudinally spaced rows of openings therein, each row extending transversely across the strip, the openings of each row being transversely spaced and defining the juncture of adjacent individual fin sections, with the material between the respective openings of each row forming a plurality of connecting strips between adjacent fin sections operative to retain the latter in a single multiple strip, the connecting strips of each row being formed in the shape of concavo-convex beads and adapted to be severed thereat to form individual fin sections, the beads of each respective row being aligned, the corresponding face of each fin section having flanges extending outwardly therefrom and transversely to the plane of such fin section, said flanges forming the transverse edges of the respective openings and being formed from metal originally occupying the area of the respective openings therebetween, said edges extending parallel to one another, and each fin section having one or more tube receiving holes therein.

2,669,960
APPLIANCE FOR AMPHIBIOUS WARFARE
John N. Laycock, Derry, N. H.
Application May 17, 1951, Serial No. 226,822
12 Claims. (Cl. 114—0.5)



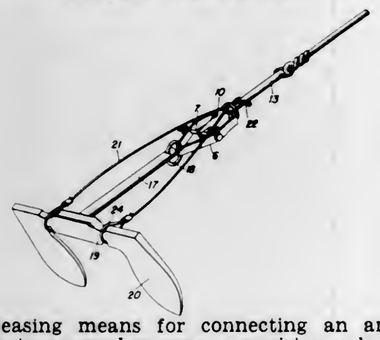
1. A buoyancy unit comprising a first group of parallel airtight tubes, a second group of parallel airtight tubes arranged transversely to said first group and secured thereto to form a rectangular skeletal frame having interstices, a deck secured to said frame, a collapsible inflatable pontoon disposed beneath said deck within each of said interstices of the frame, a conduit leading from each pontoon to one of said tubes, and a valve controlling said conduit.

2,669,961
APPARATUS FOR REDUCING THE FRICTION OF WATER ON THE HULL OF A SHIP
Maurice Alexandre Emile Thomas, La Louviere, Belgium
Application July 3, 1951, Serial No. 234,944
5 Claims. (Cl. 114—67)



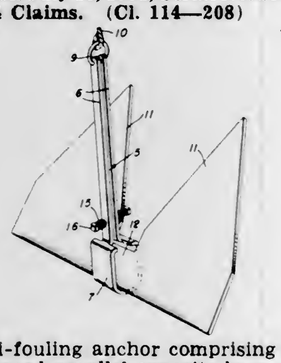
1. An apparatus for reducing the coefficient of friction of water on the hull of a ship comprising a plurality of substantially vertical ducts positioned on each side of the hull of the ship in spaced relation between the stem of the ship and a point varying between one third and one half of the length of said ship from said stem, each of said ducts having a plurality of vertically spaced air escape holes positioned below the water line of the hull, a shield associated with each duct, each shield extending the length of the duct, and having its forward portion fixed to the hull forwardly of the duct and its rear portion extending aft of the duct and spaced from the hull, and means including a compressor for supplying air under pressure to said ducts for discharge through said holes in the ducts.

2,669,962
ANTIFOULING ANCHOR
Cleve F. Christie, Knoxville, Tenn., assignor of ten per cent to Dovie A. Harrison, Knoxville, Tenn.
Application July 6, 1950, Serial No. 172,267
1 Claim. (Cl. 114—207)



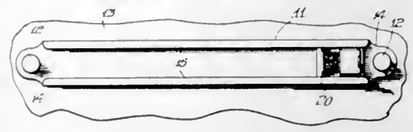
Releasing means for connecting an anchor shank to an anchor rope comprising a bulbous body having means at one end attachable to the anchor rope and being bifurcated at its opposite end, a resilient clip having a closed end and arms straddling said body and releasably gripping the same, means on the closed end of the clip attachable to the anchor shaft, and a cross connection between said arms straddled by the bifurcated end of said body to prevent relative turning of said body and clip, said body being provided with a groove in the first named end thereof and said arms being provided with arcuate jaws engaging in said groove.

2,669,963
ANTIFOULING ANCHOR
Cleve F. Christie, Knoxville, Tenn., assignor of ten per cent to Dovie A. Harrison, Knoxville, Tenn.
Application July 16, 1951, Serial No. 236,965
4 Claims. (Cl. 114—208)



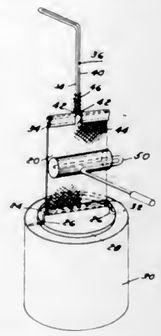
1. An anti-fouling anchor comprising a shank including spaced parallel opposite bars and having at corresponding ends a substantially rectangular eye including spaced sides on said bars, a pair of flat ground-engaging flukes having a flat connecting web coplanar therewith, said web extending through and oscillating in said eye, the sides of the eye being normally spaced apart a distance less than the width of said web to restrict oscillation of the web into opposite positions in which said web and flukes are disposed in planes at an acute angle to said shank, said eye and bars being resilient for spreading apart of said sides by said web to provide for oscillation of said web and flukes from said opposite positions under predetermined pull exerted against said shank.

2,669,964
INDICATOR FOR DESIGNATION STRIP HOLDER
David J. Wexler, Islip Terrace, N. Y.
Application August 1, 1952, Serial No. 302,077
4 Claims. (Cl. 116—135)



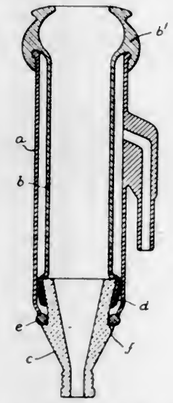
1. A device of the class described adapted to be carried by a designation strip holder having inturned lateral flanges forming two parallel longitudinal grooves, said device comprising: an H-shaped body member of resilient material including a cross-bar portion and legs shaped for secure frictional engagement with said grooves; a cover member slidably disposed in said grooves intermediate said legs on top of the cross-bar portion of the H-shaped member and dimensioned to conceal about one-half of said cross-bar portion; and an indicia carried by the cross-bar portion of said H-shaped member, said indicia being covered or uncovered at will by sliding said cover member.

2,669,965
PAINT ROLLER LOADING DEVICE
Standly T. Coughlan, Detroit, Mich., assignor to King Paint Roller Inc., Detroit, Mich., a corporation of Michigan
Application August 23, 1951, Serial No. 243,250
5 Claims. (Cl. 118—264)



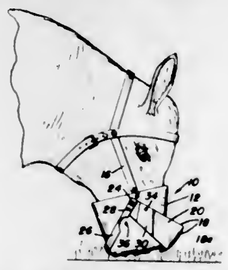
1. A paint roller loading device comprising a sheet of material so formed as to pick up paint throughout an area thereof between its ends when dipped into the paint and withdrawn therefrom, said sheet being provided at one end with a handle whereby it may be manipulated, said handle being connected with such end of the sheet to support the sheet throughout its extent at such end, said sheet being provided at the opposite end with means carried thereby and extending along the extent of the sheet at such end for supporting the sheet throughout its extent at such end, said means being adapted to engage with the overhanging ledge of a paint container whereby the sheet may be extended upwardly therefrom, the sheet being free and unsupportd between said means at one end and the handle connected with the sheet at the opposite end.

2,669,966
TEAT CUP FOR USE IN CONNECTION WITH MILKING MACHINES
Herbert Edward Skett, Ellesmere, England
Application November 27, 1950, Serial No. 197,651
3 Claims. (Cl. 119—14.49)



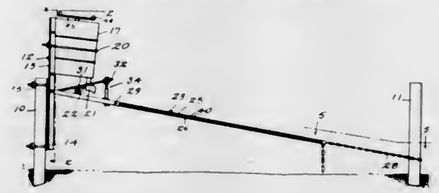
1. A teat cup for use with a milking machine comprising an outer rigid shell open at its upper and lower ends, an extensible tubular liner disposed within said shell and having its upper portion overlying the upper end of said shell, a connector plug having an upper and lower portion, said upper portion of said plug being of greater external diameter than the internal diameter of said tubular liner to assure a fit of said liner thereover, the lower portion of said plug being adapted to receive a milk tube, said upper portion of said plug joining said lower section at a flared portion defining a shoulder, the maximum diameter of said plug being slightly less than the diameter of the lower opening of said shell, means in engagement with said liner for retaining said liner and the upper portion of said plug in positive frictional engagement, and a resiliently deformable locking ring adapted to seat upon the shoulder of said plug and having a diameter slightly greater than the diameter of the opening of the lower end of said shell whereby said plug is prevented from being pulled up into said shell under the force of said extensible liner.

2,669,967
WEANER
Charles H. Patterson, Shelton, Wash.
Application August 8, 1952, Serial No. 303,263
1 Claim. (Cl. 119—131)



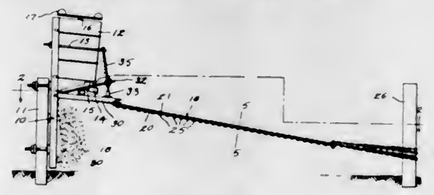
In a weaner, the combination of a muzzle-receiving body provided at the front thereof with an opening, a gravity-responsive closure for said opening comprising a substantially U-shaped member including a closure-forming bight portion and a pair of side pieces, coaxial pivots attaching said side pieces to the opposite sides of said body whereby the closure member is swingable between operative and inoperative positions relative to the body, one of said side pieces being provided intermediate the ends thereof with an outwardly offset portion, a gravity-responsive locking hook disposed within the offset portion of the associated side piece and depending therefrom, and a detent projecting from a side of said body and engageable by said hook when said closure member is in its operative position.

2,669,968
ANIMAL OPERATED STOCK OILER
Gerald R. Rasmussen, Chappell, Nebr.
Application July 31, 1951, Serial No. 239,457
1 Claim. (Cl. 119—157)



A stock oiler comprising a pair of upright spaced apart posts, a vertically disposed frame fixed to one of said posts, a narrow doubled fabric belt fixed to said frame at one end, a bolt passed through the bight formed by doubling said belt, a reverted chain extending about the other of said posts and having its ends secured to the ends of said bolt holding said belt in normally horizontal position, said belt being twistable to vertical position by the rubbing of an animal thereagainst and disposed at a downward inclination from said frame, chains extending along the longitudinal frame for discharging oil onto said belt, said edges of said belt, and means carried by said means including a receptacle carried by said frame above said belt, a spring-closed valve connected to said receptacle, a second frame fixed to said belt, a valve operator carried by said second frame adapted upon upward swinging of the latter to open said valve for discharge of liquid onto said belt, and means limiting the upward swinging of said second frame.

2,669,969
LIVESTOCK OILING APPARATUS
Gerald R. Rasmussen, Chappell, Nebr.
Application October 30, 1951, Serial No. 253,918
4 Claims. (Cl. 119—157)



1. A stock oiler comprising a pair of upright spaced apart posts, a vertically disposed frame fixed to one of said posts, a flexible stock oiling belt fixed between said frame and the other of said posts and disposed at a downward inclination from said frame, and an oil discharging means carried by said frame above the end of

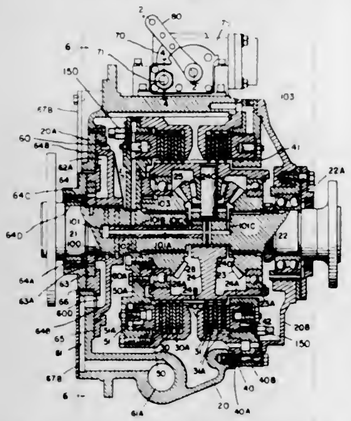
the belt which is fixed to said frame and operatively connected to said belt for discharging oil onto said belt, said belt comprising a continuously relative wide elongated flexible belt member, a pair of chains disposed on one face of said member, and means securing said chains to said member each in a position adjacent one longitudinal edge of said member.

2,669,970
FOUNTAIN PEN
Anthony Gordon, New York, N. Y.
Application May 3, 1950, Serial No. 159,698
2 Claims. (Cl. 120—51)



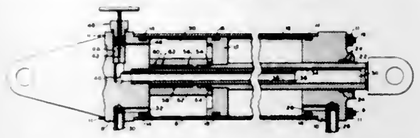
1. Fountain pen construction comprising: a pen point element, a hood element, and a resilient valve element; said pen point element having an opening and an adjustable slit communicating with said opening, to form pen point nib members; said valve element being positioned to overlie said opening in said pen point element; said hood element at least partially overlying said pen point element and valve element, and having a cam surface engageable with said valve element; said hood element also having a pair of downwardly extending cam elements engageable with the outer edges of said nib members whereby relative movement between said pen point and valve element, and said hood element, in one direction simultaneously cams the nib members closer together and cams said valve element upon said opening in said pen point element; and in an opposed direction permits the nib members to spring further apart, and the valve element to spring to a position above and spaced from said opening in said pen point element.

2,669,971
HYDRAULIC REVERSING TRANSMISSION
John D. Mooney, St. Paul, Minn.
Application May 18, 1949, Serial No. 93,945
3 Claims. (Cl. 121—38)



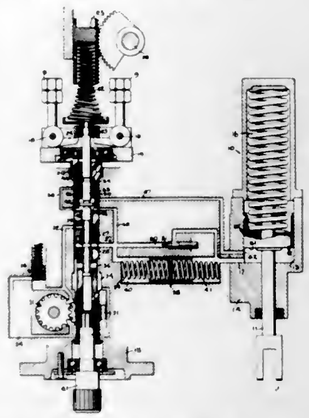
1. In a transmission, a hydraulically operable motor, comprising an annular cylinder and annular piston, said annular cylinder having a cylindrical outer perimetral wall and a convexly curved inner perimetric wall, said annular piston having a cylindrical inner perimetral wall and a convexly curved outer perimetric wall, and packing material carried by the curved walls of said cylinder and piston.

2,669,972
CYLINDER WITH VARIABLE STOP MECHANISM
James H. Cross, Lewis, Kans.
Application March 28, 1952, Serial No. 279,188
9 Claims. (Cl. 121—38)



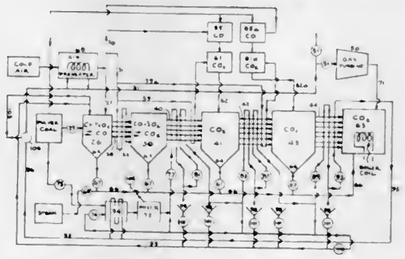
1. An expansible, fluid-pressure operated device with variable stop mechanism, which comprises, in combination, a cylinder and a piston mounted for reciprocation therein, a piston rod connected to said piston and extending through one end of said cylinder, a conduit for supplying fluid under pressure to a chamber in said cylinder adjacent said end of said cylinder, a conduit for supplying fluid under pressure to a chamber in said cylinder adjacent to the other end of said cylinder, a bore formed in said piston rod, a plunger member secured to said last-named end of said cylinder and extending into said bore, a conduit with an adjustable valve therein, said last-named conduit formed in said plunger and partly in said last-named end of said cylinder, said last-named conduit communicating with said bore in said piston rod and said last-named chamber, and said last-named conduit closed to the flow of the fluid into said bore when said valve is closed and adapted to transfer fluid from said last-named chamber in said cylinder to said bore on the extension stroke with said valve open and to prevent transfer of fluid from said bore to said last-named chamber in said cylinder on the retracting stroke with said valve closed.

2,669,973
CONDITION REGULATING APPARATUS
George E. Parker, Rockford, Ill., assignor to Woodward Governor Company, Rockford, Ill., a corporation of Illinois
Application June 19, 1950, Serial No. 168,970
10 Claims. (Cl. 121—42)



1. Apparatus for regulating a condition having, in combination, a servo including a cylinder and a piston adapted for connection to a condition regulator and movable through a predetermined range, a control valve having elements relatively movable in response to changes in said condition and operable selectively to vary the energization of said servo, a hydraulic system operable as an incident to a change in the position of said piston to apply a modifying force to said valve to restore the parts thereof to a neutral position, said system including a restricted passage through which fluid may leak to dissipate said modifying force, and a valve in said leakage passage opened by movement of said piston through the intermediate portion of said range and closed adjacent one end thereof, said valve including a port opening into said cylinder and adapted to be covered and uncovered by said piston.

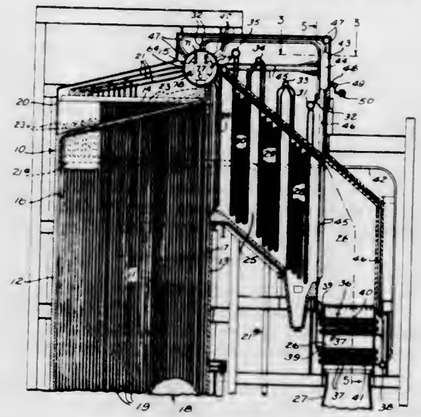
2,669,974
APPARATUS FOR TREATING GASEOUS AND FLUIDIZED POWDER STREAMS
Carsten Ingeman Johnsen, Floral Park, N. Y.
Application December 23, 1947, Serial No. 793,396
16 Claims. (Cl. 122—4)



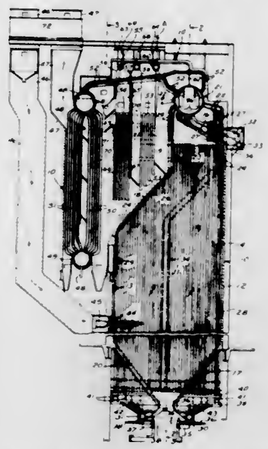
1. In the process for treating a fluidized powder stream, the steps in separating solid particles from the stream which comprise passing the stream upwardly in a confined passage, applying heat to said stream during its upward movement, then passing said stream downwardly through a confined passage which is cooler than said first passage, the decrease in velocity of the stream effecting separation of solid particles from the stream, and collecting solid particles at the bottom of said cooler passage.

2,669,975
VAPOR GENERATOR
Martin Frisch, New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application April 29, 1949, Serial No. 90,483
5 Claims. (Cl. 122—459)

1. A steam generator comprising a setting having a combustion gas outlet, a plurality of steam generating sections in the setting each having a complete circulatory circuit, firing means, the firing means, the steam generating sections and gas outlet being so arranged in relationship to one another that gases of combustion flowing to the outlet pass in heat exchange relationship with one of said sections prior to flowing in heat exchange relationship with another section, means for conducting water from said one section to said other section, separating means associated with said other section for receiving all of a mixture of steam and water generated in said other section and comprising a centrifugal separator in which the steam and water are separated from the mixture thereof by centrifuging, a steam offtake for said steam generator in communication with said one section only, blowdown means connected to a concentrated water containing portion of said other section, and means for condensing all of the steam separated in the centrifugal separator by passing it in heat exchange relationship with at least part of the feed water for the steam generator and adding the resulting condensate to the water of said one section by conducting it out of contact with the steam generated therein to a water containing portion thereof.



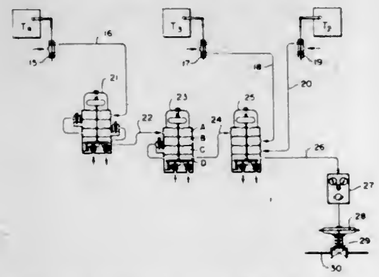
2,669,976
APPARATUS FOR GENERATING VAPOR
Martin Frisch, New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application April 29, 1949, Serial No. 90,484
14 Claims. (Cl. 122—459)



5. Steam generating apparatus comprising a plurality of separate steam generating sections, each section having a complete circulatory circuit, firing means for producing a stream of products of combustion, said apparatus having a combustion gas outlet, the sections and the gas outlet being so disposed in relationship to one another that the products of combustion flowing to the gas outlet pass in heat exchange relationship with a first of said sections prior to flowing in heat exchange relationship with another section, steam condensing means, means for sup-

plying feed water required for all sections to said first section, means for passing at least a portion of said feed water to the condensing means for use as a condensing medium means for conducting the condensing medium and the condensate from the condenser to said first section out of contact with the steam generated in the first section, means for feeding water from the circulatory circuit of the first steam generating section to said other section, means for conducting the steam generated in the other section to said condensing means, a usable steam offtake for receiving steam generated in said steam generating apparatus, the offtake being in communication with said first section so as to receive said usable steam therefrom, and blowdown means for the steam generating apparatus associated with said other circuit.

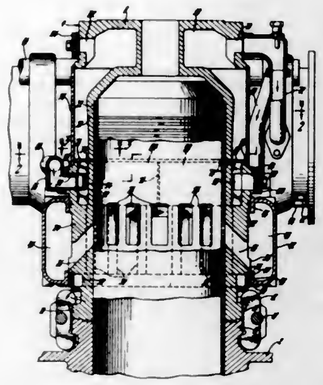
2,669,977
VAPOR GENERATOR OPERATION
Henry P. Lewis, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application August 21, 1951, Serial No. 242,831
2 Claims. (Cl. 122—479)



1. The combination including a first convection vapor superheater, an attemperator of the direct contact heat exchange type connected to receive vapor discharged from the first superheater, a second convection superheater connected to receive vapor discharged from the attemperator, said superheaters being subject to the flow of heating gases, means supplying vaporizable liquid to the attemperator for regulating the temperature of the vapor passing therethrough, a dominant temperature controller means responsive to an increase and decrease in the temperature of the vapor leaving the first superheater to increase and decrease respectively the supply of vaporizable liquid, a servient temperature controller means responsive to an increase or decrease in the temperature of the vapor leaving the attemperator to increase and decrease respectively the supply of vaporizable liquid, and a servient temperature controller means responsive to an increase and decrease in the temperature of the vapor leaving the second superheater to increase and decrease respectively the supply of vaporizable liquid.

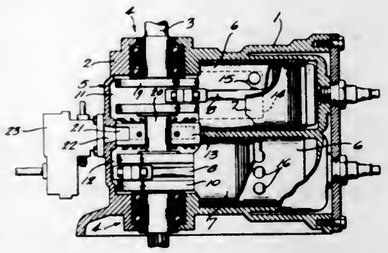
2,669,978
ENGINE COOLING SYSTEM
Arne J. Hovde, Fairview Park, and William Elmer Brill, Cleveland, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 8, 1951, Serial No. 255,478
9 Claims. (Cl. 123—41.31)

1. In a cylinder structure for an internal combustion engine or the like having a side wall provided with a plurality of circumferentially spaced exhaust ports, coolant jackets spaced radially from and extending circumferentially of the cylinder above and below said ports, means for introducing coolant into and returning coolant from the upper jacket space, said side wall having coolant passages between each pair of adjacent exhaust ports and interconnecting the



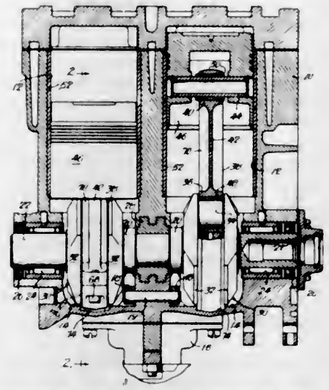
upper and lower jacket spaces, and a partition dividing the upper jacket space into two circumferentially adjacent compartments whereby the coolant in one compartment may enter the other compartment only by first passing downwardly of the cylinder through the passages between certain exhaust ports to the lower jacket space and thence upwardly through the passages between the other exhaust ports.

2,669,979
REED VALVE UNIT FOR CRANKCASE INDUCTION ENGINES
Elmer C. Kiekhaefer, Cedarburg, Wis.
Application September 11, 1950, Serial No. 184,242
9 Claims. (Cl. 123—73)



1. In a two-cycle, internal combustion engine, a crankshaft, a crankcase having circular end walls journally supporting said crankshaft and side walls forming therewith a crank chamber adapted to receive a fuel mixture for precompression prior to transfer to the engine cylinder, a passage within one end wall of said crankcase opening thereinto through a series of ports symmetrically arranged about said crankshaft, and a reed valve normally closing each respective port and disposed with respect thereto to open into the crank chamber and direct the fuel mixture entering the chamber radially of the crankshaft and against the adjacent side wall of said crankcase.

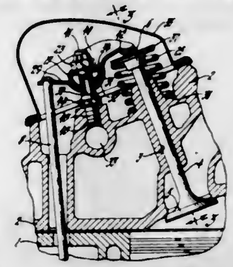
2,669,980
TWO-CYLINDER CRANKCASE COMPRESSION ENGINE
Harold E. Yarrington, Eau Claire, Wis., assignor to National Presto Industries, Inc., a corporation of Wisconsin
Application May 13, 1952, Serial No. 287,488
3 Claims. (Cl. 123—73)



1. A two-cycle internal-combustion engine comprising an engine block defining a plurality of engine cylinders and a crankcase for each of said cylinders, a piston mounted for reciprocation in each of said cylinders, a crankshaft journaled in said block and having an eccentric throw including a pair of webs and a crank pin in each of said crankcases, a fuel manifold adjacent said crankcase, each of said crankcases having a port communicating with said manifold, and a connecting rod for each of said pistons operatively connecting said pistons to the respective crank pins, said block defining an intake port for each of said cylinders to the side of the cylinder against which the respective piston exerts pressure during its power stroke, said block defining a fuel passage for each of said cylinders extending from the respective intake port to the respective crankcase, each of said connecting rods including a head adapted for engagement with the respective crank pin and adapted to substantially fill the space between the respective crankshaft webs, each of said connecting rods including a shank having a web of substantially the same width as said head disposed in the intake port side of the respective cylinder and crankcase.

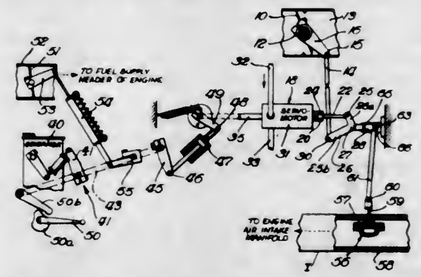
2,669,981
VALVE ROCKER MOUNTING
Clayton B. Leach, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 2, 1950, Serial No. 183,026
12 Claims. (Cl. 123—90)

12. In an internal combustion engine, an engine structure including a cylinder head, said structure or cylinder block having a tappet bore, said cylinder head having a push rod bore aligned with said tappet bore and a valve stem bore disposed laterally of said push rod bore, a cam operated tappet slidably guided for axial reciprocation by said tappet bore, a push rod slidably guided for axial reciprocation by said push rod bore, one end of said push rod thrustably abutting the tappet and the other end extending above the cylinder head, a poppet valve having a stem slidably guided for axial reciprocation by said valve stem bore and having an end terminating above the cylinder head, an elastic member biasing said valve stem upwardly relative to the cylinder head, a rocker having oppositely disposed arms overlying and resting on the upper ends of the push rod and valve stem respectively, an upwardly presenting spherical bearing surface on



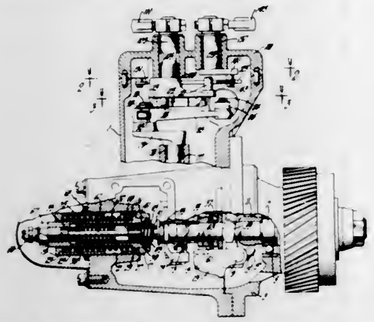
the rocker intermediate the push rod and valve, a stud extending loosely through the rocker at said bearing surface and fixedly anchored at one end to the cylinder head, and a washer on said stud providing a downwardly presenting spherical seat for said bearing surface.

2,669,982
AMBIENT AIR CONTROL OF BLOWER BY-PASSES
Clarence H. Schowalter, Beloit, Wis., and Matthew L. Foreman, Hamilton, Ohio, assignors to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application September 7, 1951, Serial No. 245,588
8 Claims. (Cl. 123—106)



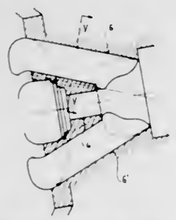
1. In a control system for an engine having a combustion chamber, the combination of a conduit communicating with the combustion chamber, means for directing intake air through said conduit, an adjustable valve controlling flow of air through said conduit, a control unit having an element movable in response to changes in the temperature of the intake air, a motion transmitting mechanism operatively connected between said movable element and said valve to effect adjusting movement of said valve in response to temperature changes, a governor having a member movable in response to changes in engine speed, a second conduit arranged to deliver gaseous fuel to the combustion chamber, a second adjustable valve controlling the quantity of gaseous fuel passing through the second conduit, a linkage connecting said second valve with the movable element of said governor to effect adjusting movement of said valve in response to changes in engine speed, and means connecting said movable element of said governor to said first valve to effect adjusting movement of said first valve in accordance with engine speed, movement of said governor control element being entirely independent of adjusting movement of said temperature responsive element.

2,669,983
GOVERNOR MECHANISM
Virgin C. Reddy, Livonia, and Carlton J. Willrich, Jr., Allen Park, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 17, 1950, Serial No. 168,668
11 Claims. (Cl. 123—140)



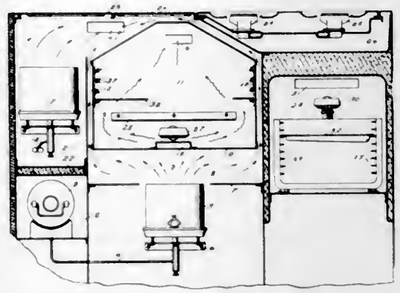
1. In an engine control mechanism, the combination of a floating actuating lever for an engine fuel regulator, a lever movable in response to the engine speed and operably connected to the floating lever, a formed stationary stop engageable by the floating lever to modify the movement thereof, said floating lever being pivotable on an axis translatable relative to said stop, and a manually operable lever movable freely from idle to full speed and torque position having spring means thereon engageable by the floating actuating lever and deflectable by the lever movable in response to the engine speed upon a speed reduction to cause movement of the said actuating lever along the formed stop and a reduction in fuel supplied the engine to prevent overloading and smoking of the engine.

2,669,984
INTERNAL-COMBUSTION ENGINE
Raymond H. Marchal and Maurice L. Fabre, Paris, France, assignors to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Paris, France, a company of France
Application August 3, 1949, Serial No. 108,388
Claims priority, application France August 4, 1948
2 Claims. (Cl. 123—188)



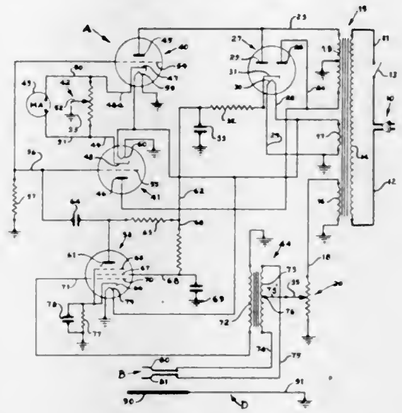
1. In an internal combustion engine cylinder the combination comprising a head part having an inner wall which delimits the combustion space of the cylinder, an inlet valve seat, an exhaust valve seat, both seats being located side by side on said wall, two separate chambers arranged inside said head part one above each of said seats, each of said chambers communicating with the combustion space of said cylinder through the corresponding seat only, a stem-guide above each of said chambers coaxially arranged with respect to the corresponding seat, an inlet valve cooperating with the inlet valve seat, an exhaust valve cooperating with the exhaust valve seat, each valve having a stem passing through the corresponding chamber and slidably mounted in the corresponding guide, said valves being adapted to gas-tightly insulate the corresponding chambers from the combustion space of said cylinder, an inlet pipe arranged outside said head part, two ducts in said head part opposite to one another with respect to the stem-guide of said inlet valve, said ducts being both connected to said inlet pipe and ending into the chamber adjacent to the inlet valve seat, an exhaust pipe outside said head part, two ducts bored in said head part opposite to one another with respect to the stem-guide of said exhaust valve, said second-named ducts being both connected to said exhaust pipe and ending into the chamber adjacent to the exhaust valve seat, both first-named ducts having each a crescent-shaped cross-section which is concave towards said inlet valve stem-guide, while both second-named ducts have also each a crescent-shaped cross-section, which is concave towards said exhaust valve stem-guide, the axis of each of said ducts being of an arcual shape such that the angle between the tangent to said axis and the axis of the corresponding stem-guide decreases continuously from the end of the duct into the corresponding chamber to the end thereof connected to the corresponding pipe.

2,669,985
COMBINATION GAS AND OIL RANGE
Domenick Saponara, Spring City, Pa., assignor to The Floyd Wells Company, Royersford, Pa., a corporation of Pennsylvania
Application November 16, 1948, Serial No. 60,374
1 Claim. (Cl. 126—1)



In a combination range, a casing having a top cooking surface, a burner compartment beneath said top surface at one side of the range and adapted to contain a burner, a broiler compartment at the opposite side of the range and adapted to contain a burner, an oven having side walls spaced from walls of said compartments to form side flues and spaced from said top surface to form a top flue in communication with the side flues, said casing having an uncontrolled flue outlet above the top oven wall and communicating with the burner compartment, side flues and top flue, a partition below the oven contributing with it to form a bottom flue communicating with the side flues and provided with a central opening, an oil burner having a clearance in said opening for air admission and for applying heat centrally to the oven bottom, an apertured channel forming an air heating chamber and an air intake within the oven and extending laterally across the bottom above the oil burner, a baffle fixed in the oven above the air intake, and said oven adapted to accommodate a gas burner between the baffle and the air intake.

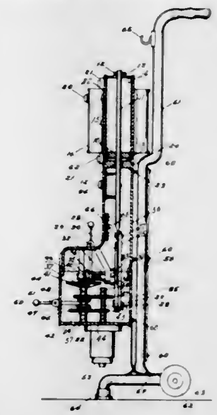
2,669,986
APPARATUS FOR ELECTRONICALLY LOCATING NERVE IRRITATIONS
James B. Crawley, Campbellsville, Ky.
Application February 1, 1950, Serial No. 141,746
2 Claims. (Cl. 128—2.1)



1. In electrical diagnostic apparatus for electronically locating nerve irritations and the like of the human body, said apparatus including electron discharge means comprising two substantially like electron discharge devices, each having an electrically like anode, an electrically like cathode and an electrically like grid; an electrical measuring instrument; a first potentiometer having grounded sensitivity control means and a resistor; means electrically connecting said instrument and potentiometer, at the resistor thereof, with each cathode; a first transformer having a center tap to its primary winding; amplification means having a plurality of operating electrodes, including a cathode grounded through a resistance, an anode and a control grid; means operatively connecting said control grid with one end of the secondary winding of said transformer, the other end of said secondary winding being grounded; means operatively connecting the last-named anode with the grids of said electron discharge device, to apply a grid bias to each of the last-named grids; and electric exploring instrument provided with two electrodes; means electrically connecting one electrode with one end of said primary winding; means electrically connecting the other electrode with the other end of said primary winding; power supply means for said electron discharge devices, including a second input transformer; a second potentiometer including sensitivity control means and a grounded resistor; means electrically connecting said second resistor with a secondary winding of said second transformer; and means to feed a voltage to said first transformer, including an electrical connection between said second sensitivity control means and said primary winding of said first transformer at said center tap.

2,669,987
MEDICAL OSCILLATOR
Albert Tonkin, St. Paul, Minn., assignor of one-half to M. Sidney Hedeen, St. Paul, Minn.
Application August 7, 1950, Serial No. 178,087
3 Claims. (Cl. 128—64)

1. An apparatus of the class described comprising a double acting pump, adapted to give puff or suction strokes at respective ends thereof, operating means for said pump, a variable driving connection between said operating means and said pump, a clutch for releasing said operating means, conduits connected at respective ends of said pump, inflatable treating elements, each unit thereof consisting of an elongated tube with one end closed and the other end provided with a connection to a conduit, said conduits being branched to accommodate a plurality of inflatable treating elements in prescribed ar-



rangement of numbers and sizes, said inflatable elements being flexible and adapted to be wrapped around to encircle a limb or portion of the body or such limb or portion reposed on said elements and subjected to alternating rhythmic pulsations of said elements according to arrangement of number and size of elements connected to respective ends of said pump, whereby by reason of such alternating rhythmic action of said inflatable elements an acceleration to circulation and massage of muscles and articulation of joints is provided at the same time.

2,669,988
TEETH PROTECTOR
Victor H. Carpenter, Boston, Mass.
Application May 8, 1951, Serial No. 225,155
2 Claims. (Cl. 128—136)



1. A teeth protector comprising a molded soft rubber member adapted to be received between the jaws to keep the teeth of the lower jaw separated from the teeth of the upper jaw, said member consisting of a U-shaped web of sufficient length to underlie all of the upper jaw and to overlie all the teeth of the lower jaw, and flanges along substantially the entire length of said web

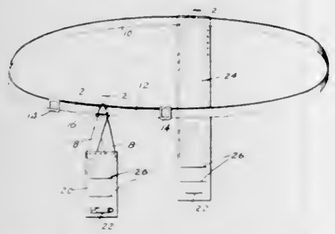
extending up and down therefrom to bear against the inner and outer sides of said jaws when the protector is in place, and a rigid tube of oval cross-section extending through said web at its mid point, said tube having a portion projecting forward from said web and a portion projecting rearward and curving downward to serve as a tongue depressor when the protector is in use.

2,669,989
FRICTION REDUCING DEVICE
Edward Shoucair, Cairo, Egypt
Application March 15, 1948, Serial No. 14,827
Claims priority, application Great Britain April 2, 1947
3 Claims. (Cl. 128—153)



1. A friction reducing device comprising a flexible envelope consisting of two superposed parallel layers of impervious material flexibly connected together by their margins, the inner surfaces of the layers being in sliding contact and having between them a film of anti-friction material whereby parallel sliding of the layers relatively to each other is facilitated during relative parallel movement of bodies in contact with the outer faces of the layers.

2,669,990
PERSONAL BELT
Marie A. (Heldberg) Hruby, Sunland, Calif.
Application November 24, 1952, Serial No. 322,204
6 Claims. (Cl. 128—291)



1. A personal sanitary belt comprising an elastic portion adapted to encircle the waist of the wearer, adjustments for same, a depending elastic support, intermediate adjustable portions, a non-elastic tab fastened to the support, a longer non-elastic tab fastened to the belt diametrically from the first tab and means on the tabs for securing an absorbent pad thereto.

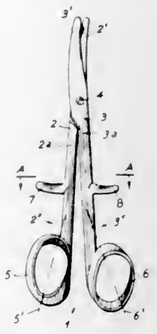
2,669,991
TETRADIGITAL GRIP FOR LONG LEVER PIVOTED SURGICAL INSTRUMENTS
Pedro Domingo Curutchet, Buenos Aires, Argentina
Application December 27, 1951, Serial No. 263,567
2 Claims. (Cl. 128—303)

1. A tetradigital grip for long lever pivoted surgical instruments, comprising a first lever having a first center line and a second lever having a second central axis, said levers being pivotally linked together in a plane by a pivot, each having a free end portion on the same side of said pivot, a ring-like member having an axis and integral with the free end portion of the first lever, said axis of said ring-like member forming an obtuse angle with said first center line, said ring-like member being intended for accommodating the first joint of the thumb of an operator, said free end portion of said second lever being provided with a rider member for straddling the first joint of the middle finger, said rider member having a second center line and an outside face, said second center line forming an obtuse angle relative to said second central axis, said obtuse angles being substantially



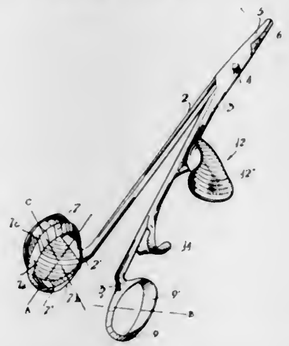
equal but opposite and lying in the plane formed by said pivotally connected levers, a directional and depth controlling member spaced away from said rider member towards said pivot, said controlling member being shaped to accommodate the index finger and a secondary member spaced away from said rider member in opposite direction with regard to said controlling member and shaped to accommodate the ring finger of the operator, the distance between said rider member and said supporting member being such that the ring finger is capable of simultaneously engaging said supporting member and said outside face of said rider member.

2,669,992
GRIP FOR LEVER PIVOTED INSTRUMENTS
Pedro D. Curutchet, Loberia, Argentina
Application February 4, 1952, Serial No. 269,851
6 Claims. (Cl. 128—321)



1. A grip for lever pivoted instruments, comprising a first lever and a second lever pivotally linked to each other, each of said levers having a free end portion on the same side of the pivotal connection, a ring-like member integral with the free end portion of each of said levers for accommodating the thumb and the ring-finger of an operator, each of said free end lever portions being provided with a crosspiece slightly curved upwardly, said cross-pieces being spaced from said ring-like members and coplanar and projecting from said levers in opposite directions, substantially perpendicularly with respect to said levers.

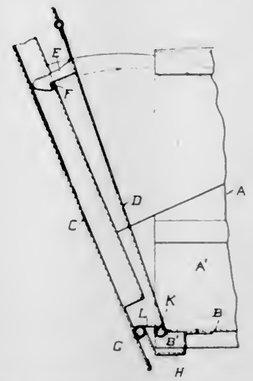
2,669,993
BICAPSULAR GRIP FOR PIVOTED SURGICAL INSTRUMENTS
Pedro D. Curutchet, Loberia, Argentina
Application January 26, 1953, Serial No. 333,091
7 Claims. (Cl. 128—321)



1. A bicapsular grip for surgical instruments such as needle holders, pinzers and the like, comprising a first branch and a second branch pivotally linked together by a pivot, each branch having a free end portion on the same side of said pivot, a first ring like member integral with said free end portion of said first branch and a second ring like member integral with said free end portion of said second branch, a first capsular member having a first cavity and an outer wall, said first capsular member being integral with said first ring like member for housing the thumb's ball and tip of an operator in said first cavity, said outer wall being directed towards said second ring like member, a second capsular member having a second cavity for housing at least the forefinger's ball of said operator, said second capsular member being fixed to said second branch between said second ring like member and said pivot and said second cavity being directed towards said pivot.

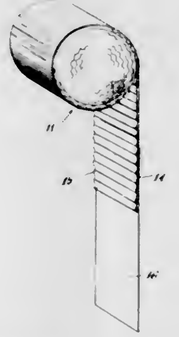
2,669,994
FRONT LEAF CONTROL FOR TILTING FRONT FILING DRAWERS
Clarence W. Straubel, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio
Application April 11, 1951, Serial No. 220,441
7 Claims. (Cl. 129—26)

1. In a filing drawer having a bottom and side walls; a tilting front panel; means, including a first shaft, for pivotally connecting said panel to the drawer bottom; a link having one end connected to said panel and the other end extending rearwardly of the drawer; a second shaft parallel to said first shaft, said second shaft being connected to the said other end of the link, and a spring urged compressor plate pivotally at-



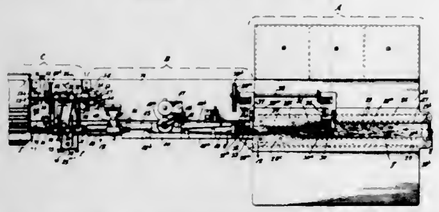
tached to said second shaft; said side walls having open slots therein for releasably supporting said second shaft.

2,669,995
DISPOSABLE FILTER AND HOLDER
Arnold I. Troy, Scarsdale, N. Y.
Application April 28, 1950, Serial No. 158,837
9 Claims. (Cl. 131—10)



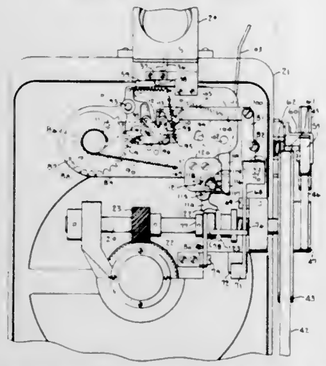
1. In a smoke filter for the heated gases produced upon combustion of tobacco in smoking articles, the combination of a continuous strip of imperforate metal foil wound into a convolute coil, an imperforate strip of absorbent material juxtaposed and interpositioned with said convolute continuous strip of metal foil and convolutely wound to provide with said convolute strip of metal foil alternate layers of metal foil and absorbent material, surfaces of said convolute metal foil and surfaces of said convolute absorbent material being spaced from each other to provide a large number of continuous passages substantially parallel to the axis of the coil through said smoke filter between said juxtaposed alternate layers of foil and absorbent material, each passage being of small transverse cross section whereby the condensation from said heated gases on said surfaces of said metal foil is absorbed by said juxtaposed surfaces of said absorbent material and said small passages are maintained substantially free from said condensation products.

2,669,996
METHOD FOR MANUFACTURING CIGARS AND PREFORMED FILLERS THEREFOR
Edward W. Berriman, Tampa, Fla.
Application August 10, 1949, Serial No. 109,484
5 Claims. (Cl. 131—20)



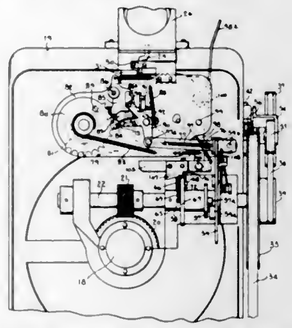
2. A method of manufacturing a finished long-filler hand-wrapped cigar which comprises feeding a stream of overlapped and superposed long-filler tobacco leaves along a path of travel, forming said stream of filler-leaves as it progresses in its travel to a substantially bunch shape and bringing it progressively into contact with a continuous strip of disposable sheet material having a rip-cord applied thereto, wrapping and securing said sheet material and said rip-cord about said continuous stream of filler-leaves to form a continuous jacket-enclosed filler-rod of the approximate ring-size of the cigar being made with said rip-cord extending lengthwise of said filler-rod, then severing said filler-rod into desired cigar lengths, then shaping an end or ends of the severed jacket-enclosed lengths of said filler-rods according to the style of cigar being made, then removing said jacket of disposable sheet material from a said length of filler-rod by means of said rip-cord, and then hand-rolling a tobacco leaf wrapper onto each of said denuded pre-shaped lengths of filler-leaves.

2,669,997
COIN-COUNTING MACHINE
Earl W. Quirk, Watertown, and Arnold R. Buchholz, Dodge County, Wis., assignors to Brandt Automatic Cashier Company, Watertown, Wis., a corporation of Wisconsin
Application September 12, 1949, Serial No. 115,272
8 Claims. (Cl. 133—8)



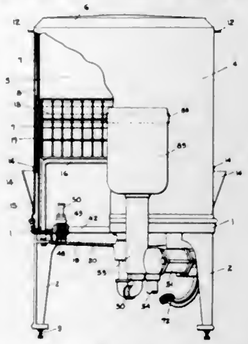
1. In a coin counting machine having a counting device, a continuously rotated feed wheel for feeding coins past the counting device to actuate the same, said feed wheel being mounted on a tiltable support for movement to an operative and an inoperative position, the combination of a cam driven by said machine, a lever engageable by the cam, and a yieldable link connection between said lever and said support for tilting said support to a feed wheel operative position, a latch for locking said linkage in feed wheel operative position, predetermined count mechanism for releasing said latch after a predetermined number of coins have been fed past said counting device, and a starting control for said mechanism and for said cam.

2,669,998
COIN-COUNTING MACHINE
Arnold R. Buchholz, Watertown, Wis., assignor to Brandt Automatic Cashier Company, Watertown, Wis., a corporation of Wisconsin
Application April 18, 1951, Serial No. 221,709
2 Claims. (Cl. 133—8)



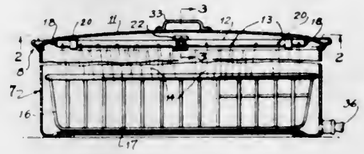
1. In a coin counting machine of the type having a counting device and a continuously rotated feed wheel for feeding coins past the counting device to actuate the same and in which an adjustable thickness gauge for accommodating the different denominations of coins is provided, the combination of a drive shaft for said feed wheel having an inner bearing and an outer bearing with a belt driven pulley adjacent said outer bearing, means directly pivotally mounting said outer bearing on said thickness gauge, and means for tilting said shaft about its pivotal mounting on said outer bearing comprising a tiltable lever pivotally mounted on said thickness gauge and carrying said inner bearing, and actuating means for said lever to tilt said shaft about said outer bearing to a feed wheel operative position.

2,669,999
DISHWASHING MACHINE
James O. McMillan, Wichita, Kans., assignor to Frank J. Ablah, Wichita, Kans.
Application December 11, 1948, Serial No. 64,750
11 Claims. (Cl. 134—101)



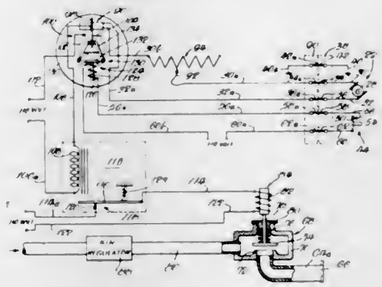
9. In a dishwashing device of the class described, a washing chamber, means for positioning articles to be washed in the chamber, a liquid reservoir at the bottom of the chamber, a jet member in the chamber below the articles to be washed, portions of said jet member being immersed in the liquid reservoir and portions of said jet member extending above the liquid in the liquid reservoir, means for supplying a predetermined quantity of fresh liquid under pressure to the jet member, inclined jets on the jet member, said jet member being rotatable by the force of the liquid discharging from the inclined jets, means for supplying liquid from the reservoir to the jet member for mixing with the fresh liquid and discharge from said jet member.

2,670,000
DISHWASHING MACHINE
Myrtle A. Amer, Long Beach, Calif.
Application April 25, 1951, Serial No. 222,854
1 Claim. (Cl. 134—177)



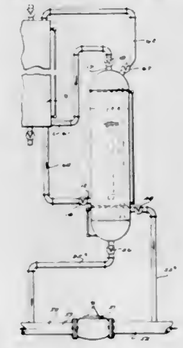
In a dish washing machine of the dish spraying type, a horizontal elongated container to receive dishes and support them in a position to be washed, an elongated removable cover of form retaining sheet material normally seated in a detached manner upon and closing the top of said container, said cover being throughout slightly arched upwardly from side to side and from end to end, a horizontal spraying tube contained within the aforesaid arched part of the cover, means rigidly attaching the opposite end portions of said tube to the under side of opposite end portions of said cover so that said tube reinforces said cover, and a liquid supply means extending through said cover and communicating with said tube to supply a spraying liquid thereto under pressure, said liquid supply means, comprising a flexible conduit, which while connected with a fluid pressure supply unobstructs removal and replacement of said cover.

2,670,001
ELECTRIC CONTROL FOR MOTORS
William H. McElvenny, Drexel Hill, Pa., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois
Application March 30, 1951, Serial No. 218,339
5 Claims. (Cl. 137—49)



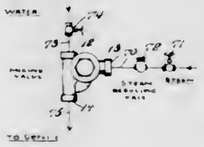
1. Control structure for use in controlling the delivery of power to a motor-driven shaft or the like, said control structure comprising an electrically powered off-on device adapted to control the delivery of power to a motor; a switch controlling the operation of said off-on device; electric generating means adapted to be driven from a driven shaft; structure responsive to the current generated by said electric generating means for maintaining the switch in a position whereby the off-on device is in "on" position when the current generated remains above a certain level; and selective means for selectively maintaining said switch in a position whereby the off-on device is in "on" position, independent of the action of said electric generating means.

2,670,002
SELF-PROPORTIONING FLUID FEEDING APPARATUS
David B. Bell, Long Beach, Calif.
Application August 1, 1949, Serial No. 107,841
23 Claims. (Cl. 137—98)



1. A control feeding a liquid by another liquid of different specific gravity including, a closed vessel having imperforate ends and provided with separated chambers one above the other, one a transfer chamber carrying bodies of said liquids and the other a storage chamber carrying bodies of said liquids, an outlet from the transfer chamber to pass the fed liquid therefrom, an inlet to the transfer chamber admitting said other liquid thereto, a bleed duct conducting said other liquid from the transfer chamber to the storage chamber, and a make-up duct conducting liquid from the storage chamber to the transfer chamber to be fed therefrom.

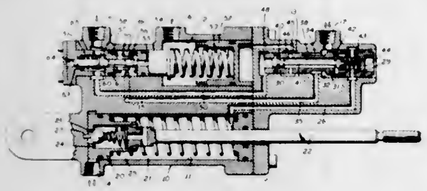
2,670,003
WATER-STEAM MIXING VALVE
Edward T. Dahl, Warwick Neck, and Otto Kneisel, Cranston, R. I., assignors to Hammel-Dahl Company, a corporation of Rhode Island
Application January 3, 1952, Serial No. 264,784
11 Claims. (Cl. 137—98)



7. In a water and steam mixing device, a mixing chamber, a water conduit to said chamber, a steam conduit to said chamber, valve means for controlling the steam conduit including a valve seat forming part of said steam conduit, a spring pressed closure for said seat, a plunger

for engaging said closure, a piston carried by said plunger and movable to move said closure from said seat, means incorporated in the water conduit and forming part thereof adapted to create pressure differentials in the flow of water in said water conduit, means to transmit pressure derived from one point of the flow of water in said conduit to one side of said piston, and means for transmitting pressure derived from another point of the flow of water in said water conduit to the other side of said piston whereby said piston will be moved to move said plunger in a direction in accordance with the pressure differential transmitted across said piston.

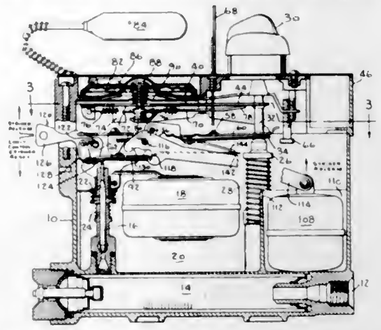
2,670,004
COMBINATION MASTER CYLINDER AND POWER BRAKE VALVE
Clinton E. Deardorff, Sepulveda, William E. Elder, Sherman Oaks, and Natale J. Bifano, Los Angeles, Calif., assignors to Bendix Aviation Corporation, North Hollywood, Calif., a corporation of Delaware
Application April 28, 1952, Serial No. 284,834
3 Claims. (Cl. 137—113)



1. In combination: a power brake valve having a power pressure port, a delivery passage, an exhaust port, a control passage, a control motor connected to said control passage, valve means actuated by said control motor in response to a varying pressure in said control passage for selectively connecting said delivery passage to said pressure port or to said exhaust port; a control port and a brake port; and pressure responsive transfer valve means differentially responsive to pressures in said pressure and said control ports respectively for connecting said control port to said control passage and said brake port to said delivery passage when the pressure port pressure exceeds the control port pressure, and disconnecting said delivery passage from said brake port and said control passage from said control port and connecting said control port directly to said brake port when the control port pressure exceeds the pressure port pressure.

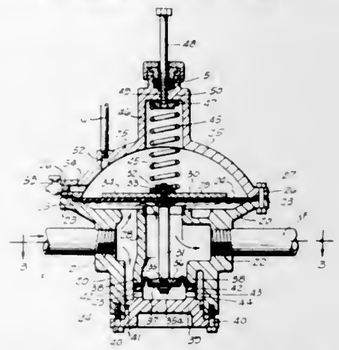
2,670,005
LIQUID FLOW CONTROL
William A. Biermann and Robert W. Sloane, Milwaukee, Wis., assignors to A P Controls Corporation, a corporation of Wisconsin
Application October 28, 1950, Serial No. 192,786
3 Claims. (Cl. 137—389)

1. A liquid fuel control comprising, a casing having an inlet and an outlet, a valve for the inlet, a valve for the outlet, a float normally regulating the inlet valve to maintain a constant level in the casing, a striker pivotally mounted in the casing, means biasing the striker into contact with the inlet valve to close the inlet valve, means normally retaining the striker out of contact with the inlet valve and responsive to an abnormal level in the casing to release the striker for movement into contact with the inlet valve, said striker being movable in a resetting direction away from the inlet valve for reengagement with said retaining means, toggle acting limit control means for punching the outlet valve closed in response to an abnormal remote temperature, an arm mov-



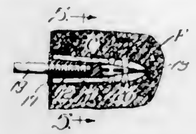
able with said striker and acting on said toggle means in a resetting direction when the striker is moved in its resetting direction, and another arm projecting from the casing and operatively connected to said striker to move the striker in its resetting direction.

2,670,006
DUMP VALVE
Asbury S. Parks, Houston, Tex., assignor to Joe E. Edwards, Houston, Tex.
Application April 26, 1948, Serial No. 23,358
14 Claims. (Cl. 137—407)



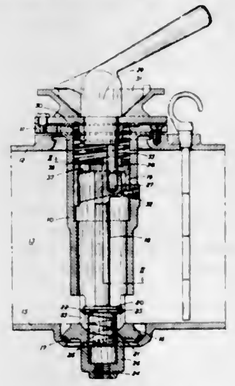
1. A dump valve for controlling the escape of liquid from a vessel to maintain a predetermined liquid level in said vessel, said valve including, a valve housing having a flow passage extending therethrough and communicating with the liquid vessel whereby the liquid may flow through said passage, a valve seat within the passage, a valve member movable relative to the seat for controlling flow through the passage, a main pressure responsive means having one side connected to the valve member for controlling movement thereof, that side of the pressure-responsive means having connection with the valve member and reduced in effective area by the area of the valve seat engaged by said member when the valve member is seated being exposed to the liquid in the vessel, the opposite side of said pressure-responsive means being exposed to the area above the liquid in said vessel, an auxiliary pressure-responsive means having the same effective area as the area of the valve seat and having one side exposed to the liquid in the vessel, and means for transferring the effect of the liquid upon said auxiliary pressure-responsive means to that side of the main pressure-responsive means which is connected with the valve member.

2,670,007
VALVE FLOAT COUPLING
Paul L. Adams, Dubuque, Iowa
Application October 18, 1949, Serial No. 122,059
4 Claims. (Cl. 137—452)



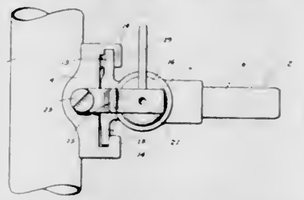
3. For use with a valve operating rod having a cylindrical end portion formed exteriorly with screw threads, a float for operating said rod comprising a buoyant body of cellular material, such as Styrofoam and the like, which is characterized by slightly elastic cellular walls having a low resistance to crushing and means for securing the body to the said valve operating rod including a coupling member having an opening to receive the screw threaded end portion of the valve rod and having an extended flanged portion contacting a part of the body under a pressure sufficient to cause an elastic yield without crushing of the cellular walls in such part, said coupling portion thereby having a surface area in contact with said part of the body relatively large as compared to the volume of such coupling portion and with the coupling member being retained in position at least in part by the elastic pressure of the cellular walls in contact therewith.

2,670,008
MANUALLY ADJUSTABLE VALVE
George Kopp, Rugby, England
Application March 16, 1950, Serial No. 150,057
6 Claims. (Cl. 137—592)



1. A flow control and filling device for a receptacle comprising a hollow casing disposed in said receptacle, said casing extending through opposed bottom and top walls of said receptacle and being secured thereto in fluid tight engagement, apertures in the wall of said casing communicating with the interior of said receptacle adjacent the bottom thereof, an outlet in said casing exteriorly of said receptacle, a reduced bore in said casing communicating with said outlet, a valve seat adjacent the inner end of said bore, a valve member slidably disposed in said bore, a valve ring on said valve member located to engage said seat to prevent flow of fluid from said casing to said outlet when said valve member is moved to one terminal position in said bore, a stem extending upwardly from said valve member, a flange on the upper end of said stem having a downwardly extending skirt portion, a cam surface on the lower edge of said skirt portion, a cam follower fixed in the wall of said casing and engageable with said cam to cause axial movement of said stem and valve member upon rotation of the same, a recess in said flange disposed eccentrically thereof, an aperture in said flange, a strainer covering said aperture, a relatively thick cover plate for the upper end of said casing secured in fluid tight relation thereto, a compression spring disposed between said cover plate and said flange for holding said cam in engagement with said follower and said valve ring in engagement with said seat when in closed position, a central aperture in said cover plate terminating in an upwardly and outwardly flared surface, an actuating handle having a body portion selectively receivable in said central aperture, and an eccentrically mounted pin depending from said body and received in said recess whereby upon rotation of said handle said valve will be opened or closed and upon removal of said handle unauthorized operation of said valve will be prevented and said flared surface will form a funnel for filling said receptacle, the fluid passing downwardly through the aperture in said flange and through the apertures in the wall of said casing into said receptacle.

2,670,009
VALVE
Robert E. Reeve, Tracy, Calif.
Application May 8, 1951, Serial No. 225,088
1 Claim. (Cl. 137—738)



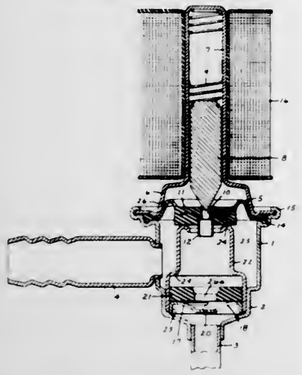
A valve comprising a body part having a bore, the body being formed with a seat about one end of the bore, an initially separate body part having an axial passage therethrough, a coupling head on one end of the initially separate body part having a cooperating seat formed thereon at its outer end about the axial passage, means quick-releasable upon part-rotation of said initially separate body part to secure the parts together with the seats engaged, said separate body part having a taper bore thereacross, a taper plug valve removably engaged in said taper bore, a spring finger adapted to extend from the first named body part to overhang and engage the outer end of the plug, means pivoting the finger on the first named body part for rotation in a direction to allow the finger to be swung aside for the removal of the valve and separately the rotation of the separate body part in a disconnecting direction, and cooperating means between the outer end of the plug valve and the finger tending to prevent rotation of the separate body part without preventing rotation of the plug valve.

2,670,010

MEANS FOR ESTABLISHING SUBSTANTIALLY UNIFORM FLOW RATE IN CONDUITS AND THE LIKE

Theodore P. Kessler, Burlington, N. J., assignor to General Electric Company, a corporation of New York

Application May 26, 1950, Serial No. 164,371
5 Claims. (Cl. 138—43)



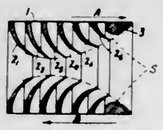
1. A flow control device for insertion in a conduit transversely thereof comprising, in combination, a dished plate having a center portion of small area relative to the total plate area and wall means extending convexly upwardly and outwardly therefrom to the rim of the plate, said wall means having orifices disposed between the center portion and said rim and increasing in area towards said rim; a flat, annular, member of resilient material engaging with the rim of said plate, said member being of substantial thickness and having an aperture coaxial with and substantially of the diameter of said plate center area whereby a relatively large area of said resilient member overlies said orifices for deflection relative thereto according to the magnitude of pressure drop across said member, the minimum diameter of said aperture being in the neutral plane of said member; and means for supporting said plate and said annular member in engagement with an inner wall of said conduit with the dished portion of said plate facing upstream.

2,670,011

AERODYNAMIC VALVE

Jean H. Bertin and François G. Paris, Paris, France, assignors to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Paris, France, a company of France

Application October 26, 1948, Serial No. 56,582
Claims priority, application France October 31, 1947
5 Claims. (Cl. 138—44)



1. A unidirectional flow duct for allowing free downstream flow and hindering upstream flow, comprising in combination a plurality of dish-shaped annular baffles annularly engaging the inner wall of said duct and being longitudinally spaced therealong, and forming coaxial, converging passages, the least cross-sectional area of said passages being at the downstream end thereof, downstream of said baffles, an annular Venturi member, inside said duct, forming a converging-diverging passage having a neck portion of least cross-sectional area and coaxial with the former-mentioned passages, the periphery of the downstream ends of said converging passages and the periphery of the neck portion of said converging-diverging passage lying on a smooth envelope surface.

2,670,012

MEANS FOR WEAVING RIBBONS, TAPES, BANDS, AND THE LIKE

Bertrand Paul Voumard and Walther Henri Nicolet, La Chaux-de-Fonds, Switzerland

Application October 30, 1948, Serial No. 57,554
8 Claims. (Cl. 139—11)



1. In a device for weaving fabric bands, by the use of two warp systems, means for inserting the weft thread into the warp including a weft-thread guide and weft-inserting members, means for forming the shed including two reeds for beating up the weft thread, and rails on which said weft-thread guides and said weft-inserting members are mounted, the said rails being separately movable in the direction transverse to the warp.

2,670,013

PILE WIRE FOR WIRE LOOMS AND METHOD OF WEAVING PILE FABRICS

Francis P. Groat, Bloomsburg, Pa., assignor to The Magee Carpet Company, Bloomsburg, Pa., a corporation of Pennsylvania

Application August 17, 1949, Serial No. 110,788
14 Claims. (Cl. 139—39)



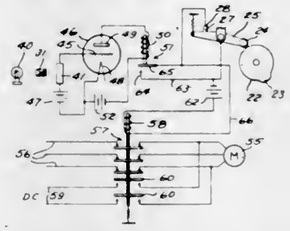
1. A pile wire for wire looms comprising a shank having a loop forming edge of undulating shape and a non-cutting loop raising portion at the front end of said shank of greater height than the loop forming edge.

2,670,014

PHOTOELECTRIC STOP MECHANISM FOR LOOMS

Robert B. Hutchinson, Yonkers, N. Y., assignor to Alexander Smith, Incorporated, Yonkers, N. Y., a corporation of New York

Application September 15, 1950, Serial No. 184,923
10 Claims. (Cl. 139—336)



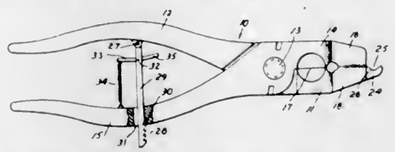
1. In a loom having a driving motor and a yarn carrier actuated thereby in a normal timed sequence, an energizing circuit for said driving motor, switch means normally connecting said energizing circuit to drive said motor, trip means to cause said switch means to disconnect said energizing circuit from said motor, a second switch means, means driven by said motor and synchronized with the normal carrier travel to actuate said second switch means at a predetermined time in said travel, a third switch means, a photoelectric cell disposed at a point in the path of said carrier corresponding to said predetermined time, a circuit connecting said photoelectric cell to actuate said third switch means when the light on said cell is intercepted by said carrier, and a circuit connecting said second and third switch means to actuate said trip means to stop said motor whenever said second and third switch means are not operated in proper timed relationship.

2,670,015

WIRE SPLICER AND SCRAPER

Boyd F. Reynolds, Twin Falls, Idaho

Application March 2, 1951, Serial No. 213,622
2 Claims. (Cl. 140—121)



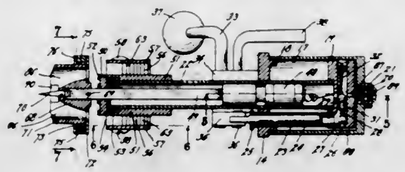
2. A wire twisting implement arranged to be used in pairs, said implement comprising a pair of crossed levers forming handles at one end and jaws at the opposite end, said levers being pivoted together, one of said jaws having a transverse groove at its outer end, file-like teeth extending longitudinally of said groove, both of said jaws having complementary grooves extending longitudinally thereof and file-like teeth extending transversely of said longitudinal grooves, said longitudinally extending grooves each tapering from its handle end inwardly toward its outer end, and means for adjustably holding said jaws in a desired relation to each other, said adjustable holding means comprising a locking bar having one end pivoted on the inner side of one of said crossed levers and having its other end serrated and arranged to extend through a bayonet slot in the other of said crossed levers, said bayonet slot having a sharpened tooth on the side extending toward its jaw and spring means normally urging said serrated locking bar into said sharpened edge of said bayonet slot, said spring means comprising a cross bar on said locking bar, a spring biased between the outer handle side of said cross bar and the inner side of said handle having the bayonet slot, the other end of said cross bar being arranged to abut the inner side of its handle when said locking bar is free of said bayonet slot.

2,670,016

WIRE PULLING JACK

Edward J. Dullaghan, Boise, Idaho

Application April 19, 1951, Serial No. 221,841
4 Claims. (Cl. 140—123.5)



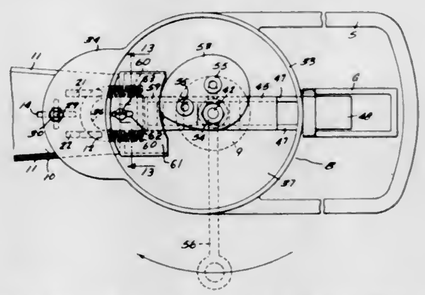
4. A tool for tensioning and twisting a concrete form tie wire, comprising: a piston rod; a wire-twisting head fixedly mounted on the forward extremity of said piston rod and provided with two oppositely positioned wire-receiving passages; a pivot point projecting forwardly from said rod; an actuating cylinder surrounding said rod in relatively rotatable relationship; a piston on said rod within said cylinder; means for forcing fluid under pressure into said cylinder against said piston to force said cylinder rearwardly on said rod; means rotatably mounted on said actuating cylinder for attaching the extremities of a form-tying wire thereto, said means being non-rotatable relative to said rod so that the winding of said wire will act to draw said cylinder forwardly on said rod to increase the fluid pressure in said cylinder; and a safety valve arranged to relieve the pressure in said actuating cylinder when a predetermined pressure has been reached therein to avoid excessive tension in said wire.

2,670,017

TENSIONING MEANS FOR POWER-OPERATED CHAIN SAWS

Max H. Fiest, Toutle, Wash.

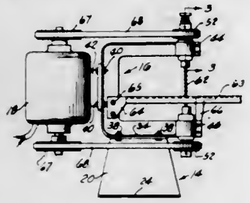
Application November 29, 1948, Serial No. 62,437
1 Claim. (Cl. 143—32)



In tensioning mechanism for a chain saw machine, the combination with a circular housing, a slide head movable therein, an arm rigid with the head, means within the head for guiding said head and arm, a spindle carried by the slide head, and a driven chain-supporting wheel journaled

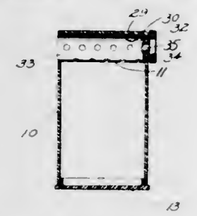
on the spindle, of a cam disk eccentrically mounted on the spindle, means on the disk for attaching a manually operated tool, a two armed cam plate mounted on the circular housing and forming with said circular housing a pair of parallel slots, and a pair of coiled springs interposed between the cam plate and the circular housing within said slots.

2,670,018
ROTARY CUTTING TOOL
J. Edwin Coates, Santa Monica, Calif., assignor to Alta Engineering Company, Santa Monica, Calif., a limited partnership of California
Application September 30, 1949, Serial No. 118,841
10 Claims. (Cl. 143—33)



6. A cutting tool attachment for mounting on the body of a portable drill comprising: a frame having spaced supporting members; blade receiving means mounted in axial alignment for rotation on said supporting members; and an extension on said frame having means for attachment to said drill body to hold said frame in fixed position with respect thereto and with said blade receiving means in longitudinal alignment with the driving shaft of said drill; one of said blade receiving means having a portion formed for driving engagement with said driving shaft.

2,670,019
HAND SOAP FLAKING AND DISPENSING APPARATUS
David De Guesclin Cuyler, Mamaroneck, N. Y.
Application January 19, 1949, Serial No. 71,578
3 Claims. (Cl. 146—61)



1. A pocket type combination soap flaking and dispensing apparatus, comprising a hollow casing of rectangular cross-section, said casing being adapted to slidably retain a cake of soap, one end of said casing being outwardly semi-circular in cross-section in a plane perpendicular to the longitudinal casing axis, one wide wall of said casing having a longitudinal slot therethru, a substantially tubular rotor fitted within the semi-circular end of said casing the rotor axis being substantially perpendicular to the wall slot, a head formed integral with one end of said rotor, the opposite end being open, said rotor having a plurality of spiral slots, formed thru the outer wall thereof, with a solid wall section formed between the ends of adjoining slots, the sides of said slots being angularly disposed to the rotor circumference, a cutting edge formed at one side of each of said slots, the wall at the opposite side of said slot being bevelled, to provide clearance for the soap flakes, a knob attached to said rotor head for manually revolving the rotor, a sliding control knob having a portion thereof fitted thru the casing wall slot, a cupped substantially circular soap gripping element attached to the control knob, inside the casing wall, the inner edge of said gripping element in a plane parallel to the slotted casing wall being sharpened to grip the soap cake, said knob and gripping element co-operating to manually slide one edge of the soap cake into engagement with the rotor circumference, the cutting edges of the rotor cutting the soap into flakes, the soap flakes passing thru the slots into the interior of the rotor, when the rotor is manually revolved, said flakes being discharged thru the open end of the rotor when the rotor and casing are tilted.

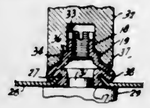
2,670,020
FRAME FOR HANDBAGS AND THE LIKE
Willi Hammesfahr, Solingen-Wald, Germany, assignor to John G. Treacy, New York, N. Y.
Application January 10, 1952, Serial No. 265,796
1 Claim. (Cl. 150—29)



A hinge in a frame for a handbag comprising a pair of substantially U-shaped frame members, each of the said frame members consisting of a base portion and two leg portions extending from the respective ends of the said base portion, the said U-shaped frame members being disposed in adjacent parallel arrangement in the closed position of the said handbag and in angular arrangement upon an axis formed by the connecting line between the free end parts of the said leg portions of each of the said U-shaped frame members, the respective bases of the latter being spaced apart from each other, in the open position of the said handbag, at least the free end parts of the said leg portions being tubular, a pair of L-shaped cross members of flat material, one arm of each of the said L-shaped cross members being secured to the free end parts of the legs of one of the said U-shaped members, respectively, each of the free end parts of the legs of the other of the said U-shaped frame members having an open axially disposed slot receiving therein the other arm of one of the said cross members which is secured to the adjacent leg of the other of the said U-shaped members, respectively, a pivot extending through the free end parts of the legs of the other of the said U-shaped frame members and through the said other arm of the said cross members, thereby pivotally connecting the free end part of the legs of one of the said U-shaped frame members with the free end part of the legs of the other of the said U-shaped members, the free end of the said other arm of the said cross members forming a cam having two notches spaced apart from each other over a center portion, a contacting member comprising a ball disposed in the free end part of each of the legs of the other of the said U-shaped frame members and engaging the corresponding one of the said cams, and resilient means comprising a helical spring disposed in the free end part of each of the legs

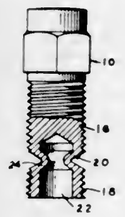
of the other of the said U-shaped frame members urging the said contacting member toward the said cam, thereby retaining the said U-shaped frame members in parallel closing position of the bag, when the said contacting members engage one of the said notches of the said cams and in angular opening position of the bag, when the said contacting members engage the other of the said notches of the said cams.

2,670,021
DIE COLLAPSED ANCHOR NUT
Carel T. Torresen, Santa Monica, and William V. Stackhouse, Torrance, Calif.
Application June 3, 1949, Serial No. 96,954
7 Claims. (Cl. 151—41.72)



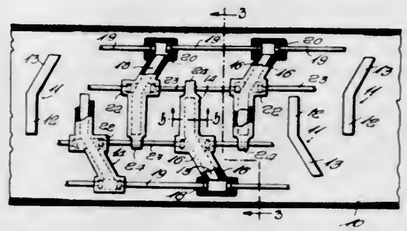
1. An anchor nut comprising: a generally cylindrical barrel having substantially uniform internal and external diameters thruout the major portion of its length; said barrel having a smooth cylindrical bore throughout said major portion, an enlarged head formed adjacent one end thereof; the opposite end of said barrel being of reduced external diameter to form a shoulder engageable by a force-applying tool; said portion of reduced diameter having a threaded bore of smaller diameter than the bore of the intermediate portion of said barrel; said intermediate portion of said barrel having a greater cross-sectional area than said portion of reduced diameter, producing substantially greater resistance to axial compression failure and radial collapse than said portion of reduced diameter.

2,670,022
SELF-LOCKING ADJUSTMENT SCREW
Sidney Oldberg, Birmingham, and Michael C. Turkish, Detroit, Mich., assignors to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application January 25, 1947, Serial No. 724,404
7 Claims. (Cl. 151—70)



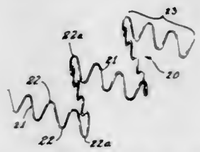
1. An integral self-locking screw comprising a shank having an axial bore throughout a portion of its length, an annular wall portion intermediate the length of said axially bored shank separating said bored shank into two axially spaced portions of like inside and outside diameter, said annular wall portion being substantially V-shaped in cross section and having external concave internal convex surfaces and characterized by longitudinal flexibility and resiliency, an external screw thread of like hand and equal pitch on each of said axially spaced shank portions, the helix of the thread on one of said shank portions being displaced axially with respect to the helix of the thread on the other of said shank portions.

2,670,023
TIRE CLEAT PROTECTOR
Elmer E. Doran, Merced, Calif.
Application April 23, 1951, Serial No. 222,330
1 Claim. (Cl. 152—184)



A device of the character described comprising, in combination with a tire having a carcass and a plurality of cleats formed on the outer periphery thereof, the provision of a hollow apertured metallic protector for each of said cleats, enlarged portions for each of said protectors, and at least two longitudinally extending flexible cables each interconnecting pairs of circumferentially aligned enlarged portions of alternate protectors, each of said protectors having a substantially inverted U-shaped cross sectional area, and said protectors each having the substantial contour of its associated cleat, said cables comprising headed rod members passing through said apertures, said heads engaging the inner sides of said inverted U, and wherein each protector includes a hook portion engaging the rod member interconnecting the protector on either side thereof intermediate the ends of said last-mentioned rod member.

2,670,024
TIRE FOR USE ON ICE
John O. Antonson, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 22, 1948, Serial No. 40,175
10 Claims. (Cl. 152—211)

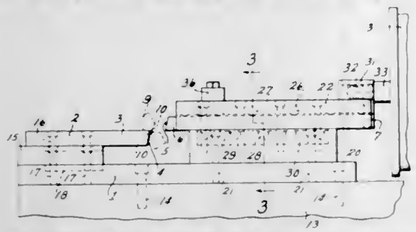


1. A traction element moldable in the tread rubber material of a vehicle tire comprising a length of wire bent in sinuous form thereby providing leg portions connected alternately by loop portions, said sinuous length of wire itself being additionally bent back and forth in substantially a single plane to form a row of lengths of wire each length having a plurality of sinuosities thereby providing an elongated flattened flexible strip readily conformable to the shape of a tire tread, said leg portions extending transversely of said plane of the flexible strip.

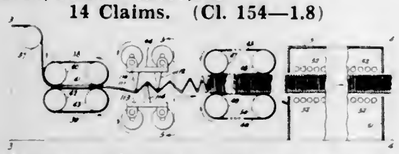
2,670,025
APPARATUS FOR SPREADING SPLIT BARS TO CIRCULAR FORMS
Thomas R. Landers, Holyoke, Mass., assignor to Moore Drop Forging Company, Springfield, Mass., a corporation of Massachusetts
Application March 14, 1951, Serial No. 215,574
1 Claim. (Cl. 153—48)

Apparatus for spreading a bar of hard and tough steel stock split between the ends there-

of into circular form comprising a table support, a stationary die horizontally disposed at one end thereof having an arcuate semi-circular portion facing the opposite end of the support and overlying the table in parallel relation therewith, guideway structure mounted at the other end of said support and defining a horizontal path in adjacent parallel relation to said stationary die, a movable die in said guideway with rollers pocketed at each side of the guideway embracing the top and bottom side edges of said movable die for rolling movement thereof, said movable die having a complementary arcuate semi-circular edge formed at its inner end and at its outer end portion having an abutment projecting upwardly of the sides of said guideway structure, a piston rod fixed to said abutment and fluid pressure means for extending said piston to move said die toward and away from said stationary die, said guideway structure including a transverse stop member fixed to the sides thereof and extending between the same above said movable die in the path of said abutment, said movable die being limited in its movement inwardly of said stationary die by the engagement of said abutment against said transverse stop and in said position overlying the stationary die with the arcuate portions of the dies forming a circle around which the split halves of a steel bar may be spread.

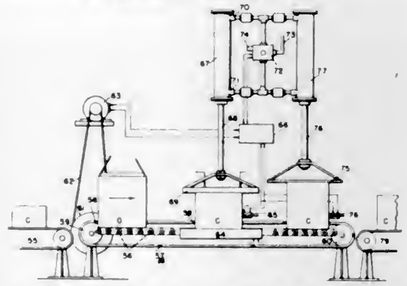


2,670,026
APPARATUS FOR MAKING HONEYCOMB CORES FOR SANDWICH-TYPE STRUCTURES
Gustave A. Ungar, deceased, late of New Rochelle, N. Y., by Irma Ungar, administratrix, New Rochelle, N. Y., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Original application March 18, 1948, Serial No. 15,708. Divided and this application February 1, 1952, Serial No. 269,548
14 Claims. (Cl. 154—1.8)



1. Apparatus for the continuous production of a honeycomb core for sandwich-type structures from a single web of material being fed continuously which comprises a male and a female die periodically cooperating and slotting said web with a series of parallel transverse rows of slots, the slots of any row being staggered with respect to the slots of adjacent rows; means for applying on both sides of said web longitudinally extending intermittent stripes of adhesive between the slots of every other row on one side of said sheet and between the slots of the other rows on the other side of said web; cooperating, reciprocating blades continuously pleating the advanced portion of said web by bending it in alternate directions at each alternate row of slots; cooperating feed belts engaging the arrises of the pleats so formed, said belts traveling at a rate of speed less than that of the feed of said web and thereby backing up said pleats upon one another; other cooperating feed belts engaging the arrises of said pleats, the second named belts traveling at a rate of speed less than that of the first named belts and thereby compressing said pleats and bonding within each pleat one portion of each of the stripes of adhesive to another portion thereof; and other cooperating feed belts engaging said arrises, the third named belts traveling at a rate of speed in excess of that of the second named belts, thereby separating the unbonded portions of said pleats and expanding said pleats into a honeycomb-like structure.

2,670,027
MACHINE FOR SEALING CARTONS
Wilferd C. Gigler, Camas, Wash.
Application February 3, 1951, Serial No. 209,237
3 Claims. (Cl. 154—42)



1. In a device for heat-sealing a carton of the character described having top and bottom flaps treated with heat-softenable adhesive, a heated platen positioned to support said carton, means for moving said carton onto and off of said platen, a second heated platen located above said first platen and in substantial registration therewith, means for moving said second platen up and down, a control for said platen-moving means, said control normally maintaining said second platen in raised position, means operating said control to cause temporary downward movement of second platen, said control also connected with said carton-moving means, whereby to halt operation of said carton-moving means while said second platen is resting on the top of said carton, an unheated platen located beyond said first and second platens and above the path of said carton, said carton-moving means acting to move said carton from said first platen into position beneath said unheated platen, means for moving said unheated platen up and down, and a control for said last mentioned means normally maintaining said unheated platen in raised position but operable to cause temporary downward movement of said unheated platen, said carton-moving means also connected with said last mentioned control, whereby to halt operation of said carton-moving means while said unheated platen is resting on the top of said carton.

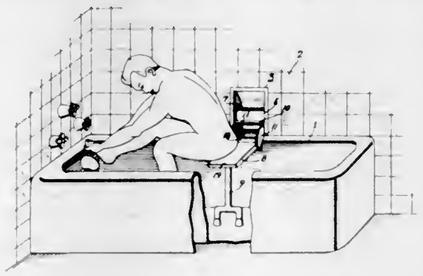
2,670,028
ADJUSTABLE VEHICLE SEAT
Clifford B. Doty and Trygve Vigmostad, Detroit, Mich., assignors to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application May 19, 1948, Serial No. 27,845
9 Claims. (Cl. 155—14)

1. A seat adjusting structure for a vehicle body having a seat and a floor, comprising supporting mechanism adapted to be mounted in

fixed positions on said floor beneath each end of the seat, means for pivotally connecting one end of the seat to one of said mechanisms, the other mechanism comprising a fixed arcuate bottom track extending generally fore and aft and having said last named means as a center of curvature, an arcuate slide carried by and having the curvature of said track and shiftable thereon fore and aft, a second arcuate slide carried by and having the curvature of said first named slide and shiftable for and aft relatively thereto, and means for attaching the second slide to the seat.



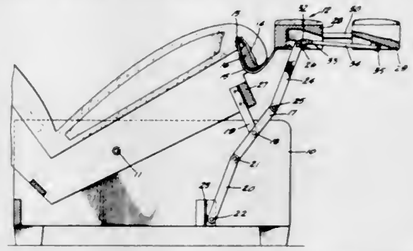
2,670,029
BATHTUB SEAT STRUCTURE
Fred Rossi, Philadelphia, Pa.
Application November 14, 1952, Serial No. 320,414
7 Claims. (Cl. 155—36.5)



1. A retractible seat unit for use in conjunction with a bath tube immediately adjacent to a wall, comprising a hollow support structure adapted to be recessed in the wall behind the tub and having an opening at the top of the tub, a seat having two telescopically associated sections and a hinged leg foldable against the bottom of the seat, means operable by telescopic movement of one seat section relative to the other for moving said leg to its operative and inoperative positions, and means supporting said seat for movement from its position of use through said opening into said hollow structure behind the tub.

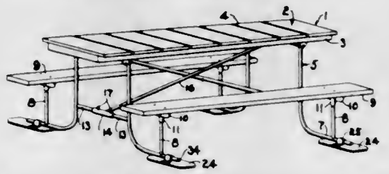
2,670,030
RECLINING ARTICLE OF FURNITURE
Franklin Richardson, Glendale, Calif.
Application April 30, 1953, Serial No. 352,147
4 Claims. (Cl. 155—105)

3. In a reclining chair or the like, a seat and backrest pivotally supported on a base, a leg rest hingedly connected to the seat adjacent the forward end thereof, said leg rest being transversely divided into sections, means slidably connecting said sections enabling them to move toward and away from each other, linkage connecting the base, seat, and leg rest for causing the leg rest to swing upwardly and forwardly relatively to the seat when the seat and backrest are tilted



rearwardly relatively to the base, and means for causing the sections of the leg rest to separate as the leg rest is swung upwardly.

2,670,031
DISMOUNTABLE PICNIC TABLE
Frederick J. Melges, Battle Creek, Mich.
Application August 22, 1951, Serial No. 243,046
10 Claims. (Cl. 155—124)

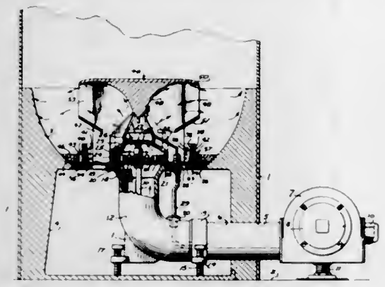


1. A dismountable table assembly, comprising a table top having a frame on its under face, a supporting framework for said table top, said framework including legs at each corner of same, upper and lower arms on each leg with the corresponding arms of the legs at each end of the table projecting toward each other, a pair of substantially T-ended brace members engaging and extending from the lower arms of said legs at one end of said table to the upper arms of said legs at the other end of said table, means for releasably fastening said lower arms of said legs against spreading apart when engaged in desired position with said substantially T-ended brace member, an anchor member at the upper end of each leg, and means on the frame of said table top for engaging the anchor member at the upper end of each leg.

2,670,032
OIL GAS GENERATOR-BURNER
Leonard Vignere, Sr., Salem, Ohio
Application October 4, 1950, Serial No. 188,380
4 Claims. (Cl. 158—4)

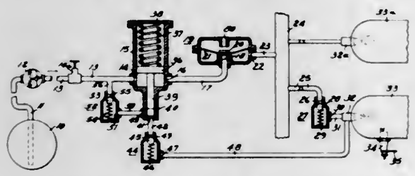
1. An oil burner comprising an upwardly extended draft tube, an air nozzle mounted upon the upper end of said tube and including a substantially horizontal base plate having openings formed in its marginal area, nipples mounted in said openings and projecting above the surface of the base plate, and a frusto-conical cover ring mounted upon said base plate, there being a large center opening formed in said cover ring at its upper end and a circumferential series of weep holes at its lower end, the cover ring constituting means protectively shielding said base plate openings against gravitating fuel particles, the walls of said weep holes constituting means for leading off fuel flowing over the base plate surface and between the nipples, a liquid fuel spray nozzle mounted in the center portion of the base plate

and extending upwardly toward the center of the cover ring to spray fuel therethrough for intermixing with air channeled from the base plate



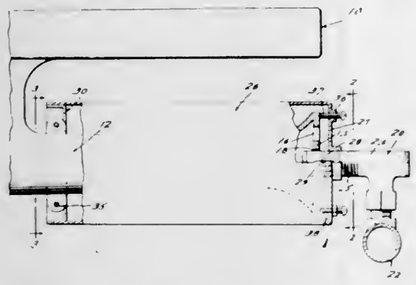
openings to said center opening, and a drain plate having a depression and surrounding said air nozzle for receiving fuel draining through the weep holes.

2,670,033
FUEL FEEDING SYSTEM
James L. Ray, Long Beach, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application July 13, 1946, Serial No. 683,355
8 Claims. (Cl. 158—36)



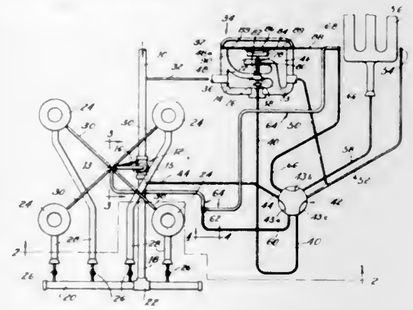
3. Apparatus for feeding fuel to a combustion chamber, comprising: conduit means for connection with the chamber for feeding fuel to the chamber; means responsive to fuel pressure in said conduit means for preventing feed of fuel to the chamber unless said fuel pressure rises to a predetermined value; and separate means, controlled by the pressure in said conduit means, for feeding a predetermined quantity of fuel to the chamber at a pressure substantially higher than said predetermined pressure, to provide fuel for combustion-starting in the chamber.

2,670,034
AIR COMPENSATOR FOR GAS BURNERS
Harry E. Thompson, Steubenville, Ohio
Application August 2, 1951, Serial No. 239,897
13 Claims. (Cl. 158—118)



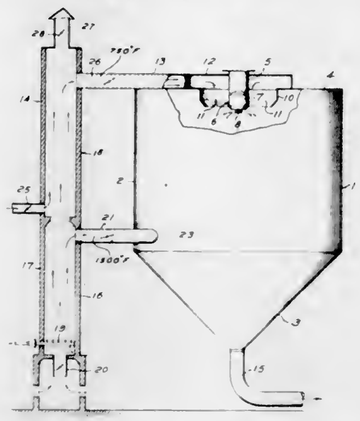
1. In a gaseous fuel burner including an air and gas conducting Venturi tube having an end wall provided with a central opening and air admission openings and having its opposite end connected to a burner, a gas inlet nozzle having a stem portion extending into said central opening, a cylinder housing encasing a major portion of said tube and having an outer end wall, said cylinder housing end wall being opposed to and spaced from said Venturi end wall, said cylinder housing end wall having an opening through which said nozzle stem extends and in which the stem is engaged, and means within the inner end of the cylinder housing and bearing against the tube to center the cylinder housing on the tube, the inside diameter of the cylinder housing being greater than the maximum diameter of the Venturi tube to provide space for the passage of air through the cylinder housing and tube and between said tube and housing end walls to said air admission openings, and said cylinder housing being open at the inner end for the admission of air thereinto.

2,670,035
SAFETY CONTROL SYSTEM FOR GAS BURNERS EMPLOYING SINGLE POINT IGNITION
Robert A. Wittmann, Chicago, Ill.
Application January 17, 1947, Serial No. 722,584
18 Claims. (Cl. 158—135)



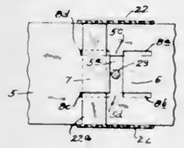
1. For use in a gas burning system having a source of gas, a gas burner, gas ignition means, and gas conduit means adapted to be interconnected between the source of gas and the gas burner, the combination of a pilot burner and an auxiliary pilot burner for said gas burner; manually controlled valve means adapted to block and unblock the flow of gas in said conduits to the gas burner and said pilot burner; means for lighting from said ignition means the gas which is delivered to said pilot burner; automatic valve means adapted automatically to block and unblock the flow of gas in said conduits to the gas burner and said auxiliary pilot burner; control means adapted automatically to effect the blocking and unblocking action of said automatic valve means in response to the temperature of said control means, said control means being adapted to be heated by said pilot burner when the latter is lit; said gas burner being adapted to be lighted by moving the manually controlled valve means to unblocking position whereby gas is supplied to the pilot burner, thereby igniting said pilot burner from said ignition means and heating the control means by said pilot burner to a temperature at which the control means effects actuation of the automatic valve means to unblocking position for delivering gas to the auxiliary pilot burner and to the gas burner, the gas issuing therefrom being lit from the pilot burner; and the gas burner and pilot burner being adapted to be shut off by movement of the manually controlled valve means to blocking position, whereupon the control means is no longer heated by the pilot burner, said auxiliary pilot burner continuing to be lit until the temperature of said control means is reduced to a predetermined point whereupon the automatic valve means moves to block the flow of gas to said auxiliary pilot burner.

2,670,036
SPRAY DRYING
William L. Spalding, Fort Worth, Tex., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application August 3, 1949, Serial No. 108,259
1 Claim. (Cl. 159—48)



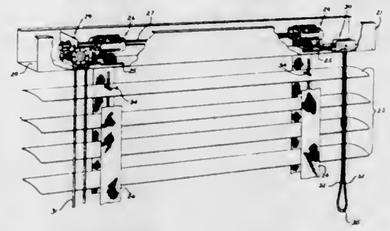
A method of spray drying which comprises burning a hydrocarbon fuel with primary air to form a body of primary combustion gases having a temperature above 1000° F., withdrawing a portion of said primary combustion gases and diluting the remainder with cooler gas to form a body of hot secondary combustion gas having a temperature not higher than about 750° F., introducing a stream of said hot secondary combustion gas downwardly into the top of a chamber while dispersing therein a spray of liquid material to be dried and passing the resulting mixture downwardly through said chamber and introducing thereinto the withdrawn portion of said primary combustion gases at a level below that at which said liquid material was introduced.

2,670,037
VENETIAN BLIND SLAT
Edwin J. Hunter, Riverside, Calif., assignor to Brooks Walker
Application June 14, 1952, Serial No. 293,588
7 Claims. (Cl. 160—173)



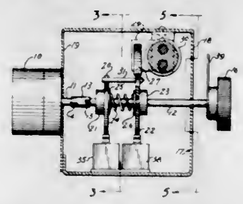
1. A Venetian blind slat provided with a lift cord receiving opening intermediate opposite side edges thereof, said slat being further provided with a pair of openings in laterally spaced relation for free passage of a tape rung therethrough, and edge portions of said rung receiving openings intersecting laterally spaced edge portions of said lift cord receiving opening and providing therebetween a freely flexible tongue, and the free end of said tongue defining a marginal portion of said lift cord receiving opening.

2,670,038
VENETIAN BLIND HEAD BAR ORGANIZATION AND FITTINGS
Hans K. Lorentzen, Montclair, N. J., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York
Application October 17, 1951, Serial No. 251,707
4 Claims. (Cl. 160—177)



1. For an enclosed Venetian blind head-bar organization, a fitting for supporting a tilt rod extending longitudinally of the head bar and having a tape rocker mounted thereon for receiving the upper ends of a ladder tape, said fitting comprising: a stamped sheet-metal body having a generally flat, horizontal base portion, a portion of the body being formed into a generally flat, tape-rocker-engaging portion lying in a generally vertical plane extending longitudinally of the head bar, said tape-rocker-engaging portion being provided with an upwardly opening slot for receiving a radially extending end flange of the tape rocker to restrain endwise movement of the tape rocker.

2,670,039
TIMER
John C. Burkholder, Toronto, Ontario, Canada
Application August 30, 1951, Serial No. 244,391
3 Claims. (Cl. 161—1)



1. In a timer, a clock device, a control shaft, means connecting said control shaft to said clock device for driving of said shaft thereby but enabling said shaft to be rotated independent of said clock device, a primary time interval cam fixed to said shaft and rotatable thereby from a starting position to an end position corresponding to the sum of a primary maximum time interval and a constant time interval, a constant time interval wheel freely mounted on said shaft, friction drive means extending between said cam and said wheel to cause driving of the latter by said cam, locking means for restraining said wheel against rotational movement by said drive means, means engageable with said cam for releasing said locking means when said cam moves to a position corresponding to the end of the

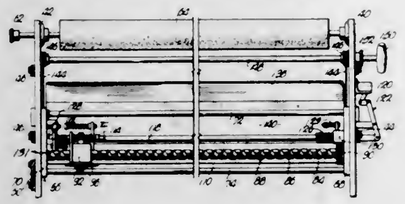
said maximum time interval, separate means responsive to an exterior signal for releasing said locking means to allow said wheel to be driven by said cam before the latter has completed its maximum time interval, and means engageable with said wheel and operatively related with said clock device for arresting the latter when said wheel has been rotated to complete said constant time interval.

2,670,040

CLOTH CUTTER FOR CLOTH SPREADING MACHINES AND HAVING RECIPROCABLE CUTTER DISKS

Raymond E. Sayles, Kansas City, Mo.

Application July 24, 1950, Serial No. 175,622
6 Claims. (Cl. 164—76)



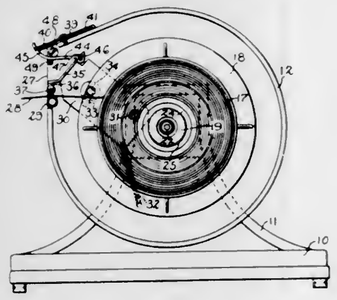
3. In a cloth cutter, an elongated, rotatable shaft; a carriage mounted on the shaft for rectilinear reciprocation longitudinally thereof; a cutter mounted on the carriage for rotation on an axis perpendicular to the path of reciprocation of the carriage; structure for rotating the cutter in response to rotation of the shaft, said structure including power transmission means operably connecting the shaft with the cutter; apparatus for reciprocating the carriage as the cutter rotates in response to rotation of the shaft, said apparatus including power transmission mechanism operably connecting the shaft with said carriage; and means for holding the carriage against rotation about the shaft.

2,670,041

TAPE-DISPENSING MECHANISM WITH KNIFE-GUARDING MEANS

Alfred P. Krueger, Stratford, Conn., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut

Application March 11, 1949, Serial No. 80,841
13 Claims. (Cl. 164—84.5)



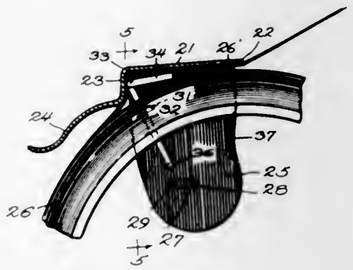
1. A tape dispenser comprising a casing having an opening through which the tape is drawn, a severing blade supported by the casing adjacent the opening, a guard for the blade having a free end normally extending through the opening between the blade and the tape to cover the blade, actuating means for moving said guard inwardly and outwardly through said opening between the tape and the blade in an arcuate path, said means comprising an actuating member within the casing connected to said guard member and adapted to be engaged by the tape to be moved thereby as the latter is drawn toward the blade, and guide means engaging the guard at a point spaced from its connection with said actuating member to guide the guard in said arcuate path.

2,670,042

GUMMED TAPE DISPENSER

Samuel Isler, Asbury Park, N. J.

Application August 14, 1951, Serial No. 241,873
2 Claims. (Cl. 164—84.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)



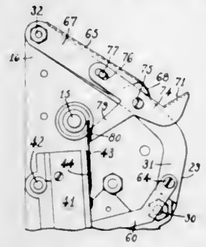
1. A dispenser for a roll of gummed tape comprising a body portion bodily mounted upon the roll and having spaced side walls extending over the opposite ends of the roll, an outer wall connecting the side walls of the body portion and disposed outwardly of the periphery of the roll and having a leading transverse tape severing edge, a wall extension secured to the trailing end of said outer wall and arranged substantially at right angles thereto and extending inwardly thereof generally radially of the roll, an element carried by one of said side walls near the leading edge thereof and projecting laterally inwardly of the side wall in spaced opposed relation to said wall extension, a stripper device arranged between said side walls and between said wall extension and element, said stripper device comprising a pair of generally radial arms arranged between the ends of the roll and side walls and having their inner ends pivotally secured to the side walls and extending radially beyond the periphery of the roll, a transverse bar connecting said arms outwardly of the periphery of the roll and arranged forwardly of said wall extension and between the periphery of the roll and said outer wall and adapted to contact the wall extension for limiting the rearward swing of the stripper device, and a tongue secured to said transverse bar near the longitudinal center thereof and disposed generally at right angles to said transverse bar and arms and extending forwardly of the transverse bar between the periphery of the roll and said outer wall, whereby the free end of the gummed tape may pass over the transverse bar and tongue and adhere thereto, said element engaging one of said generally radial arms to limit the forward swing of the stripper device.

2,670,043

FEED CONTROL FOR TAPE-DISPENSING DEVICES

Alfred P. Krueger, Stratford, and Oscar P. Erhardt, Derby, Conn., assignors to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut

Application March 29, 1947, Serial No. 738,032
12 Claims. (Cl. 164—84.5)



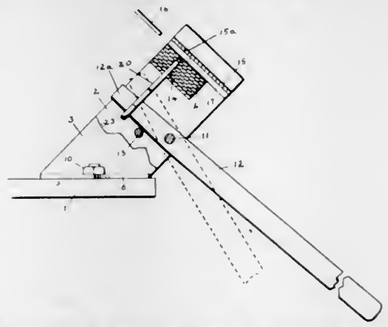
8. A mechanism for dispensing pressure-sensitive tape, comprising means for supporting a supply roll of tape, feeding mechanism for drawing tape from said roll by engagement of the tape therewith, an electric motor for driving said feeding mechanism, switch mechanism for controlling the motor, a cover for said feeding mechanism movable in opposite directions to open or closed position, a switch-actuating member, and means controlled in accordance with movement of the cover in either of two opposite directions for preventing actuation of the switch by the actuating member.

2,670,044

PRESS FOR FORMING PELLETS

Adam P. Bernard, Rochester, N. Y.

Application May 23, 1950, Serial No. 163,740
1 Claim. (Cl. 164—96)



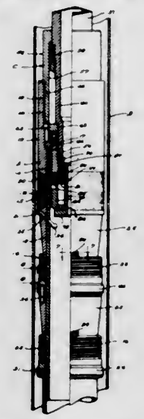
A punch press for use in forming air gun projectile pellets, comprising a punch having a cylindrical shank and a nose portion of reduced diameter and slightly tapered terminating in a substantially semi-spherical head, said nose portion having a fillet at its juncture with the shank, a guideway across which said punch can operate, comprising spaced parallel upper and lower plates, said upper plate having a round hole therein perpendicular to said guideway through which said punch may be projected whereby a soft metal pellet can be formed and ejected, said hole having a diameter slightly greater than the head of said punch, and being of the same diameter as the shank and having a sharp circular shearing edge, the lower plate having a guide aperture of the diameter of said shank and being aligned with the first-named hole, and of an axial length greater than the length of the punch nose portion, the spacing between said plates, the diameter of said shank, and the length of said nose portion being approximately the same dimension, the head of the punch and the hole in the plate being adapted to form and shear from sheet soft metal stock of a thickness somewhat less than the spacing between the plates, a pellet with a rounded head and a cup-shaped hollow skirt cylindrical on the outside.

2,670,045

LINER HANGER AND ACTUATOR THEREFOR

Arthur L. Armentrout, Long Beach, Calif.

Application September 30, 1948, Serial No. 52,037
8 Claims. (Cl. 166—12)



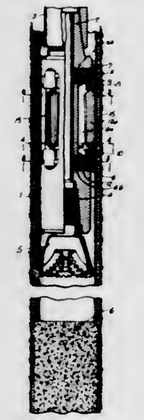
1. A liner hanger including, a tubular body, two gripper units on the body one above the other and each including, an anchor, a resilient helical gripper around the body and normally expanded, and a conical wedge on the body and engaged in the gripper, the anchor of the lower unit being set on the body while the anchor of the upper unit is coupled to the wedge of the lower unit.

2,670,046

CASING SCRAPER

Robert B. Kinzbach, Houston, Tex.

Application January 3, 1950, Serial No. 136,449
5 Claims. (Cl. 166—18)



1. A tool of the character described comprising, a body, rolling cutters, end bearings mounted on the body for supporting said cutters, at their op-

posite ends for independent angular movement relative to the bearings and independent radial movement relative to said body, and yieldable means cooperable with said bearings and body to yieldingly hold said bearings outwardly with respect to the body, said bearings also shaped to form bumpers for the removal of major obstructions ahead of roller contact.

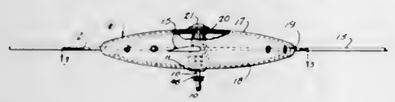
2,670,047
METHOD OF INITIATING SUBTERRANEAN COMBUSTION
George C. Mayes and Robert L. Koch, Dallas, Tex., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 22, 1949, Serial No. 89,154
3 Claims. (Cl. 166—21)

1. In a method of recovering petroleum from a subterranean formation having an input well and an output well leading from the surface thereto wherein said petroleum is ignited at said input well, a combustion supporting gas is forced through said input well into said formation to maintain combustion of petroleum therein, and petroleum and combustion products migrate to said output well, the improvement in initiating combustion of petroleum contained in said formation comprising placing adjacent to said formation for the entire depth thereof at said input well a mixture comprising a granular, refractory surface active material having a surface area between 125 and 325 square meters per gram and a particle size between .004 and 0.2 inch in effective diameter and having deposited therein petroleum coke in an amount between one percent and fifteen percent by weight of said mixture, and forcing said combustion supporting gas through said input well to said mixture and into said formation and igniting said combustible material in said mixture.

2,670,048
METHOD OF SEALING POROUS FORMATIONS
Paul L. Menaul, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
No Drawing. Application October 20, 1949, Serial No. 122,580
8 Claims. (Cl. 166—22)

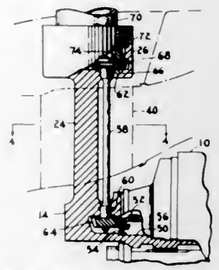
1. A method of sealing the pores in formations traversed by a well comprising injecting into said formations an acrylic resin dispersed in a solvent, said acrylic resin being present in the amount of at least 0.5 per cent of said solvent and injecting a liquid containing an anionic compound in a solution miscible with said solvent into said formation to flocculate said resin in said formation and seal said pores.

2,670,049
FUEL TANK FOR HELICOPTERS
Robert C. Christie, Palm Beach, Fla.
Application June 27, 1952, Serial No. 296,000
4 Claims. (Cl. 170—135.4)



1. In combination with a helicopter rotor mast, a rotor hub journaled on said mast and rotor blades pivotally connected at their inner ends to said hub and extending substantially radially therefrom, a fuel storage tank mounted on said mast and comprising a hollow structure of lenticular shape having at its center an inner wall of conical shape extending transversely therethrough and providing in said structure a central opening receiving said rotor hub, and partition walls extend transversely of said structure and from said inner wall to the periphery of said structure providing passages extending radially of said structure through which the inner portion of said blades extend, means in one side of said structure adjacent said inner wall providing closable openings for supplying fuel to the interior of said structure, and means in the peripheral portion of said structure providing fuel outlets for supplying fuel to an associated helicopter power plant.

2,670,050
MULTIBLADE PROPELLER AND COWLING THEREFOR
Louis H. Enos, Montclair, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application March 30, 1949, Serial No. 84,454
6 Claims. (Cl. 170—135.743)

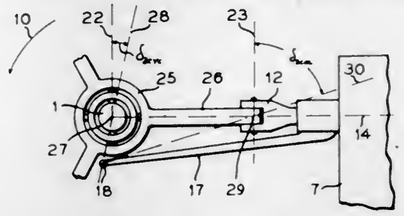


2. A propeller assembly comprising a central hub having a pitch changing mechanism including a gear concentric with the hub and rotative relatively thereto, spokes integral with said hub and extending radially therefrom, blade-receiving sockets, one integral with the outer end of each spoke and substantially larger in diameter than said spokes, each socket having a blade rotatably mounted therein, bearing means between each socket and blade holding said blade against lateral and outward radial forces, each blade including a gear disposed within said socket, each socket having in its inboard wall an aperture, a drive shaft lying substantially parallel to and alongside of each spoke, having an inner end gear drivably engaged by said concentric gear and passing at its outer end through said aperture, and a gear at the outer end of each drive shaft engaged with the gear of the corresponding blade, within its socket, said propeller assembly further comprising a fairing over said central hub and a hollow open-ended spinner intercepting and secured to said sockets, defining an annular air channel between said spinner and fairing traversed by said radial spokes and shafts.

2,670,051
AIRCRAFT LIFTING ROTOR AND PITCH CONTROL MECHANISM THEREFOR
Kurt H. Hohenemser, Pattonville, Mo.
Application July 18, 1949, Serial No. 105,329
7 Claims. (Cl. 170—160.25)

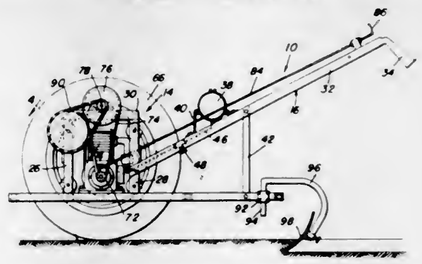
6. In an aircraft having an aircraft body, a lifting rotor comprising a center portion connected to said aircraft body, a plurality of blades,

flapping and pitch varying mechanism effectively connecting said blades to said center portion, a flapping hinge for each of said blades and included in said mechanism, each of said blades being rotatably connected to its associated flapping hinge so as to allow rotation of said blades about their longitudinal axes, a control horn included in said mechanism and connected to each of said blades, actuating links for effecting pitch control included in said mechanism and attached to said control horns, a tip path plane following



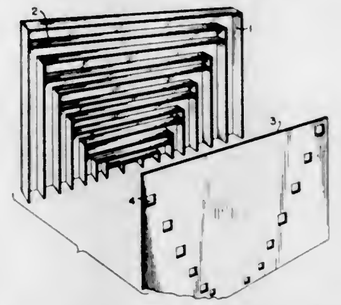
element included in said mechanism and interconnecting said blades with each other and tiltable about a pivot intersecting the axis of said center portion, said element and said blades performing together cyclic flapping motions substantially without changing the pitch of said blades, said mechanism rendering the blade pitch responsive to collective blade flapping with respect to the plane of said element, whereby an increase in collective blade flapping angle produces a decrease in collective blade pitch angle which is larger than the increase of said collective blade flapping angle.

2,670,052
SINGLE WHEEL GARDEN AND TRUCK TRACTOR DRIVE
William J. Craver, Fayetteville, Ohio
Application June 28, 1951, Serial No. 233,993
1 Claim. (Cl. 180—10)



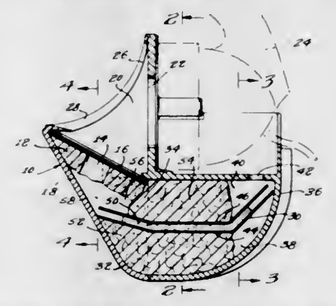
A garden tractor comprising a frame, a motor mounted on said frame, parallel axles journaled on said frame, pairs of supporting rollers on said axles, a traction wheel surrounding said motor and axles and having a rim revolubly mounted on said pairs of rollers, an annular series of pins extending laterally from each side of said rim and constituting driving means therefor, and connecting means operatively interposed between said motor and said series of pins, one of said axles constituting a drive shaft and having a pair of gears each engaging one of said series of pins, said connecting means engaging said drive shaft, said connecting means including a speed reduction gearing, said traction rim having an annular drop center and annular bearing shoulders on opposite sides of said drop center, said rollers of each pair engaging said bearing shoulders, said shoulders being between said pins and said drop center.

2,670,053
CABINET FOR LOUDSPEAKERS AND THE LIKE
Benedict Doms, Deurne-Sud, Belgium
Application February 7, 1950, Serial No. 142,770
4 Claims. (Cl. 181—27)



4. An acoustical cabinet for high fidelity reproduction of sound comprising bottom, rear and side panels forming an enclosure, each panel being formed of inner and outer walls, partitions between each wall of each panel forming passages with some of said passages extending in at least two of said panels and some of said passages in a single panel extending in two directions thereby increasing the effective length of said passages for obtaining resonance of the lower frequencies, said inner walls being provided with openings into each of said passages intermediate the ends of the passages, each of said passages being closed at one end, and sound reproducing means within the enclosure for producing vibrations which may resonate in the corresponding passage of said panels.

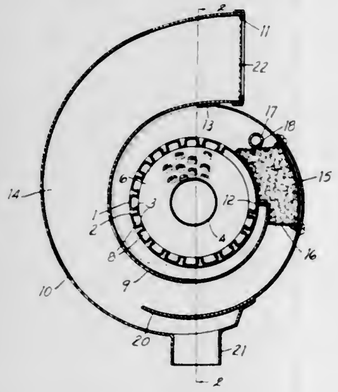
2,670,054
VOICE MUFFLER
Harry C. Tuttle, New York, N. Y.
Application July 21, 1950, Serial No. 175,102
3 Claims. (Cl. 181—34)



2. A voice muffler for a telephone transmitter, comprising in combination, a casing; a highly sound-absorbent and sound-permeable entrance layer of free fibrous material arranged at one end of said casing and having an entrance aperture; means for attaching said casing to a telephone transmitter with said entrance layer at least partly in the path of at least part of the sound waves to be transmitted by the telephone transmitter; an opening arranged in the rear portion of said casing; a sound duct arranged in said casing and leading from a location near said entrance layer to a location near said opening arranged in the rear portion of said casing; a sound-absorbent material arranged in said casing

so as to fill part of the same and to surround the middle portion of said duct; and a chamber arranged in the rear end of said casing and forming an empty space surrounding said duct, said empty space being connected by said opening to the atmosphere whereby sound waves transmitted through said duct enter said empty space from which they are discharged in attenuated form through said opening into the atmosphere.

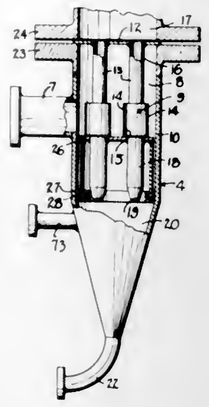
2,670,055
SUPERCHARGING AIR INDUCTION FILTER DEVICE FOR AUTOMOTIVE ENGINES
Harley A. Dorman, Detroit, Mich., and Douglas P. Dorman, Los Angeles, Calif.
Application September 27, 1948, Serial No. 51,392
5 Claims. (Cl. 183—80)



1. An air induction device for the engine of an automotive vehicle comprising a cylindrical silencer body having a multiplicity of inwardly directed nipples opening therethrough, said nipples having Venturi-like cross sections, a plurality of Venturi-shaped baffles positioned within said body in nested relationship and having their outer edges spaced from the inner surface of said body, the walls of said baffles defining a multiplicity of outwardly directed nipples having Venturi-shaped passages therethrough, a conduit connecting one end of said body to the carburetor of said engine, a casing surrounding said body and defining a spirally disposed passage diminishing in cross sectional area and communicating with the outside of said body, said casing having an inlet mouth positioned in the slip stream of the vehicle, a filter packing positioned within said spiral passage adjacent to said body, and a spirally disposed lip projecting into said passage and toward the mouth thereof to form a dirt collecting pocket along the periphery of said passage, said casing defining an outlet opening opposite said lip, said conduit having an area of between 10 and 15 per cent of the area of said mouth.

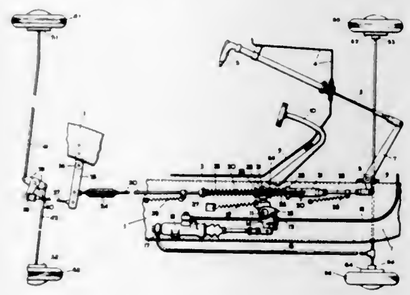
2,670,056
MULTIPLE UNIT GAS-OIL SEPARATOR AND GAS CLEANER
Jay A. Rossiter, Houston, Tex.
Application June 12, 1950, Serial No. 167,680
10 Claims. (Cl. 183—83)

1. A separator to remove foreign matter from gas produced from wells comprising an inlet manifold, a bank of separator units connected thereto, each unit comprising a shell having a cylindrical body and a base merging therewith, a removable tube nest in each shell, means to seal each nest in the shell, a gas manifold connected to said bank of units, a liquid and foreign solid matter outlet from each unit, a liquid and solids



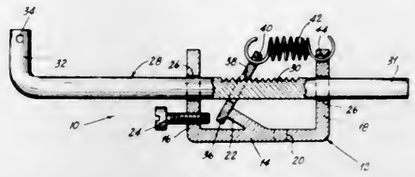
gravity separator to receive and separate the liquid from the solid flow from said outlet, and means to equalize the pressure in said units and separator.

2,670,057
HYDROMECHANICAL BRAKING SYSTEM FOR ROAD VEHICLES
Arthur W. Ellcock, Barnt Green, near Birmingham, England, assignor to The Austin Motor Company Limited, Northfield, Birmingham, England
Application August 15, 1950, Serial No. 179,507
2 Claims. (Cl. 188—10)



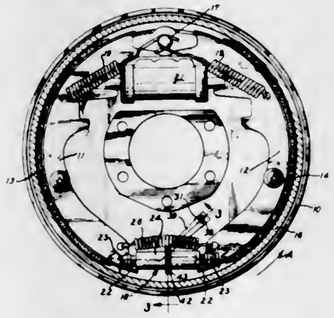
2. A braking system comprising a vehicle having front and rear wheels, hydraulically actuated brakes for some of said wheels and mechanically actuated brakes for the other of said wheels, an operating lever on said vehicle, a master cylinder actuatable from said lever having communication with said hydraulically actuated brakes, a rod slidably engaging said lever connected to said mechanical brakes for actuating said mechanical brakes, abutments on said rod spaced from said lever on opposite sides thereof, and springs between said abutments and said lever whereby when said lever is manually operated said hydraulic brakes are positively applied and said mechanical brakes are resiliently applied through one of said springs, and a manual control having a lost motion connection with said rod for applying said mechanical brakes positively and resiliently applying said hydraulic brakes through the other of said springs.

2,670,058
BRAKE SHOE ADJUSTER
John P. Landrum, Centralia, Ill.
Application November 1, 1950, Serial No. 193,351
9 Claims. (Cl. 188—79.5)



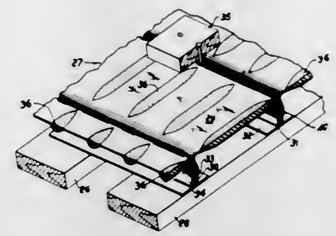
1. A device of the type described, comprising a supporting bracket; an elongated actuating member mounted on the bracket for reciprocating movement relative thereto; means within said bracket including a yieldably biased member adapted to engage said actuating member permitting movement of the actuating member relative to the bracket a preselected distance between a first and second position, said means preventing movement of the actuating member in one direction beyond the second position but permitting movement in the other direction beyond the first position, the actuating rod when moved in the other direction beyond the first position being limited in its movement in the one direction a distance equal to the preselected distance, and said means being adjustable for varying the preselected distance.

2,670,059
AUTOMATIC BRAKE ADJUSTER
George C. Link, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application September 29, 1951, Serial No. 248,976
6 Claims. (Cl. 188—79.5)



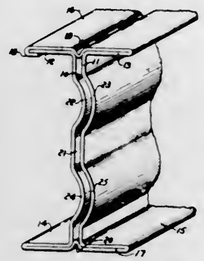
1. In a brake mechanism, a backing plate, a pair of internal brake shoes mounted upon said backing plate, an anchor on said backing plate engageable with one end of each of said brake shoes, a floating rotatably adjustable connection between the opposite ends of said brake shoes, a ratchet rotatable with said connection, and means for automatically rotating said connection and adjusting said brake shoes comprising a pawl having one end engageable with said ratchet and its opposite end pivotally mounted upon said backing plate at a point located radially inwardly of said brake shoes and circumferentially offset from the plane of said ratchet in the direction of forward rotation of said brake drum.

2,670,060
FLOOR STRUCTURE
Harry D. Fenske, Dearborn, Mich., assignor to National Steel Corporation, a corporation of Delaware
Application November 15, 1947, Serial No. 786,198
2 Claims. (Cl. 189—34)



1. In a freight conveyance of the type in which freight in transit is subject to forces tending to move the freight relative to the conveyance, the combination comprising, a conveying supporting structure mounted for movement which sets up the forces and a metallic floor structure carried thereby to which blocking can be nailed for preventing shifting of freight in transit, the metallic floor construction including a plurality of long narrow metallic structural members arranged side by side, each structural member including a panel having a freight engaging face directed away from the conveying supporting structure, the freight engaging faces of the plurality of structural members having a relatively low coefficient of friction and being arranged at a uniform level to form the surface of the floor, a pair of side reinforcing webs joined to each panel along the side edges thereof and extending laterally from the panel in a direction toward the conveying supporting structure, a flange joined to at least one web on each structural member and extending laterally from said web along the edge removed from the panel, said flange being in engagement with the conveying supporting structure, means including a rigid connection between flanges of the structural members and the conveying supporting structure integrating the metallic floor construction and conveying supporting structure and holding the structural members in side by side relation in the conveyance with the opposed webs of adjacent structural members contiguous to form a slot therebetween, the opposed webs being shaped and spaced to receive snugly therebetween a nail driven into the slot, means acting between the opposed webs for deforming and retaining nails driven into the nailing slot, a plurality of closely spaced depressed reinforcing ribs formed in the freight engaging face of each panel, the ribs extending transversely of the length of the panel and substantially from web-to-web, a settable initially moldable material filling the depressions in the freight engaging faces presented by the reinforcing ribs to form a substantially plane surface on the panels of the structural members, the moldable material having a rock-like quality when set with the exposed surface thereof having a relatively high coefficient of friction, the faces of the panels and the entrances to the nailing slots being exposed for engaging freight and receiving nails for blocking the freight, respectively, and a closure means of mastic material closing the entrance to each nailing slot along the length of the nailing slot at substantially the level of the surface of the floor.

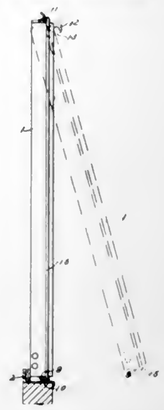
2,670,061
ONE-PIECE NAIL-RECEIVING BEAM
John P. McMahon, Huntington Woods, and Bazile A. Latulippe, Ferndale, Mich., assignors to National Steel Corporation, a corporation of Delaware
Application March 18, 1948, Serial No. 15,688
3 Claims. (Cl. 189—37)



3. An I-beam constructed from a single piece of sheet metal and comprising a pair of beam sections each including a web portion and marginal side flanges, the beam sections being disposed with the web portions in spaced, parallel back-to-back relation presenting a nail-receiving groove therebetween, transversely extending rounded protuberances in the web portions arranged in substantially curvilinearly parallel pairs presenting nail-deforming offsets in the nail-receiving groove, the side flanges being arranged in pairs with the flanges of each pair being coplanar and extending laterally from opposite sides of the nail receiving groove, a first connecting piece overlying one pair of flanges and integrally joined to the outer lateral edges of the one pair of flanges, a second connecting piece overlying the other pair of flanges, one edge of the second connecting piece integrally joined to the outer lateral edge of one of the flanges, the other edge of the second connecting piece comprising one free edge of the piece of sheet metal, the outer lateral edge of the other flange of the other pair of flanges comprising the other free edge of the piece of sheet metal, the other edge of the second connecting piece being bent generally parallel with the web portions and then generally right-angularly inwardly enfolding the outer lateral edge of the other flange in gripping relation, a medial continuous longitudinal imperforate depression in each connecting piece, each of the imperforate depressions having walls projecting into the nail-receiving groove in contact with the inner wall surfaces of the web portions adjacent the flanges maintaining the spaced relationship of the web portions and urging the outer lateral edge of the other flange outwardly from the nail-receiving groove.

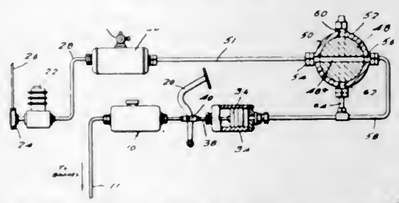
2,670,062
KICKOUT SASH
Harvey D. Carbiener and David L. Rutter, Elkhart, Ind., assignors to Excel Corporation, Elkhart, Ind., a corporation of Indiana
Application August 26, 1949, Serial No. 112,599
4 Claims. (Cl. 189—64)

1. A knock-out window sash structure which comprises a rigid rectangular sash frame mountable in a window frame around a window opening, the sash frame having projecting cam means on the outer edge of one of the sash frame members coacting to ratchet inclined plane fashion and interlock and unlock with complemental cam means projecting from the confronting inner face of the window frame, the sash frame being mounted to have a limited edgewise shifting movement in the window frame under the



ratcheting action of the cam means, and spring means between the sash frame member and the window frame to resist the edgewise movement.

2,670,063
PARKING BRAKE
Charles B. Reynolds, Orange, Calif.
Application March 26, 1952, Serial No. 278,644
1 Claim. (Cl. 192—3)

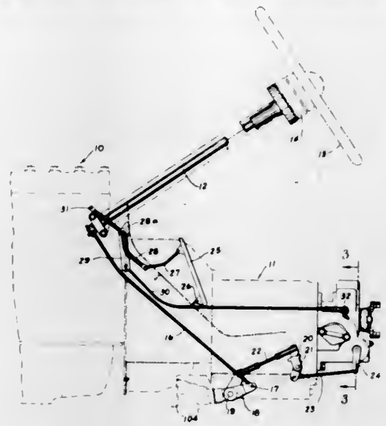


In a braking system for motor vehicles, including the service brake pedal of the vehicle and the master brake cylinder having its piston connected to and forwardly thereof, a fluid pressure cylinder having its piston connected to and rearwardly of said pedal whereby movement of the latter piston in the forward direction actuates the pedal into brake applying position, an air compressor having operative connection with the vehicle engine, a tank supplied with compressed air from said compressor, a conduit connecting said tank with the second named cylinder for actuating the piston thereof, a two way rotary valve in said conduit for controlling the application of the fluid pressure to and its exhaust from the latter cylinder, said valve having an operating stem, and a coupling between said stem and the ignition switch of the vehicle, whereby the valve is turned to its "on" and "off" positions correspondingly with the turning of said switch to the reversed positions thereof.

2,670,064
PARKING LOCKUP FOR TRANSMISSIONS
Woodrow A. Hasbany, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware
Application December 6, 1949, Serial No. 131,411
19 Claims. (Cl. 192—4)

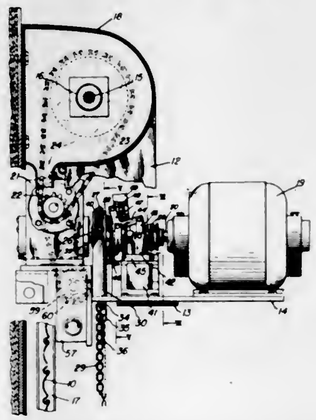
1. In a transmission having an output shaft, the combination of lockup means for said output shaft for selectively braking the latter against

rotation in either direction comprising, a ratchet wheel keyed to said output shaft, a pawl adapted to engage said ratchet wheel for holding the latter against rotation in either direction, and



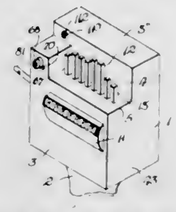
governor means associated with and responsive to the speed of rotation of said output shaft for preventing said pawl from engaging said ratchet wheel when said output shaft is rotating at a speed above a predetermined minimum.

2,670,065
COMBINED BRAKE AND CLUTCH FOR MOTOR DRIVES
Herbert H. Stevens, Jr., New York, N. Y., assignor to Walter Balfour & Co., Inc., New York, N. Y., a corporation of New York
Application April 7, 1949, Serial No. 86,009
10 Claims. (Cl. 192—18)



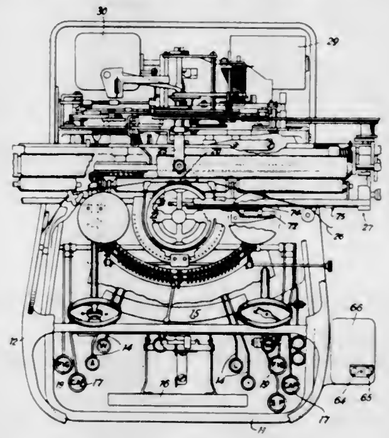
1. In a motor drive, a rotatable shaft continuously connected to the power unit and the load, a clutch body fixed to said shaft against rotation and against axial sliding, and a combined unitary brake and manual drive clutch for said shaft comprising a manually operable wheel mounted upon said clutch body for idling thereon, a stop for positively locking said wheel against rotation in both directions, a friction element splined to said clutch body adjacent said wheel, and slipping means slidable axially of said shaft for pressing said element against said wheel to brake rotation of said shaft by contact with said wheel when said wheel is locked and to fix said shaft to said wheel for motion therewith when said wheel is unlocked.

2,670,066
PARKING METER
Anthony R. N. Bruce, Portage La Prairie, Manitoba, Canada
Application May 19, 1949, Serial No. 94,225
6 Claims. (Cl. 194—1)



1. In a parking meter, the combination of a registering assembly adapted to be set to identify a vehicle of which parking is to be metered and subsequently cleared to an initial position, manually actuated means for setting said registering assembly, a coin receptacle, a coin passageway communicating with said receptacle and having a coin entrance opening, means operatively connected to said registering assembly and responsive to the presence of a coin in said passageway for clearing the registering assembly to its initial position, a closure for said entrance opening, and a timer responsive to the setting of said registering assembly and operatively connected to said closure for closing off said entrance opening at a predetermined interval after the registering assembly is set.

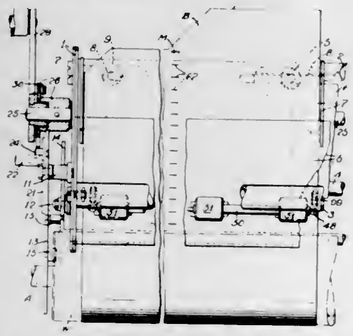
2,670,067
LINE-FORMING MECHANISM FOR TYPEWRITING MACHINES
George E. Canham, West Orange, N. J., assignor to Ralph C. Coxhead Corp., Newark, N. J., a corporation of Delaware
Application May 15, 1951, Serial No. 226,368
16 Claims. (Cl. 197—113)



1. A typewriting machine having a paper carriage movable step by step past a printing point, means for forming a printed impression at the printing point, carriage-spacing mechanism for

progressing the carriage past the printing point after the forming of each impression, electrically operated mechanism for actuating the impression-forming means and the carriage-spacing mechanism, control means, including a constant-speed electric motor and a switch operated by said motor and in circuit with said electrically operated mechanism for repeatedly completing and opening an electric circuit through said electrically operated mechanism to cause repeated printing of a selected type symbol, and an electric switch operated responsive to carriage position for opening the circuit to the electrically operated mechanism when the carriage has reached a predetermined position.

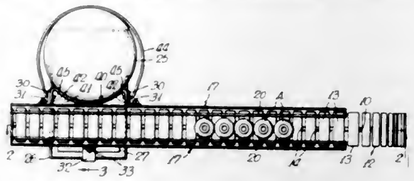
2,670,068
APPLIANCE ON TYPEWRITING, CALCULATING, OR BOOKKEEPING MACHINES FOR AUTOMATICALLY SETTING A TOP SHEET TO A PREDETERMINED LINE
Heinz Rutishauser and Albert Rutishauser, Zurich, Switzerland
Application October 24, 1950, Serial No. 191,886
Claims priority, application Switzerland October 26, 1949
10 Claims. (Cl. 197—127)



1. In a device for automatically setting a top sheet at a predetermined line in typewriting, calculating and bookkeeping machines, wherein a feeler member cooperates with a marking on the top sheet when the latter is inserted and a further marking is made in the top sheet after each entry has been completed, in combination, driving means, a forwarding roller for the top sheet, gear means between said driving means and said forwarding roller, and brake means including a ratchet wheel and at least one pawl controlled by the feeler member for movement into engage ment with said ratchet wheel for locking said gear means and thereby locking the forwarding roller when the feeler member engages a marking on the top sheet.

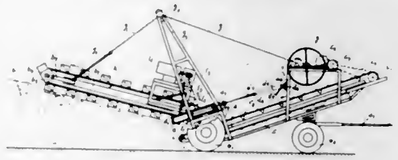
2,670,069
APPARATUS FOR LUBRICATING CONVEYER BELTS
William J. Dobkin, Jackson Heights, N. Y.
Application November 17, 1949, Serial No. 127,871
13 Claims. (Cl. 198—1)

1. In a device for lubricating the supporting surface of a conveyor belt, the combination comprising a supply tank for liquid lubricant, a rotary lubricant applicator in said tank adapted to dip into the lubricant bath in said tank and to tractively engage said belt, a wiper pivotally mounted on one side of said tank and movable selectively into or out of wiping engagement with said applicator into either of two positions, means automatically operable when said wiper is in position between said two positions for moving



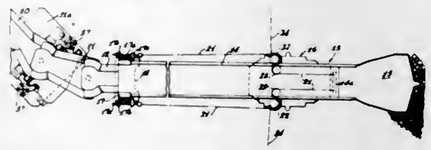
said wiper in either of said two positions, and means automatically operable when said wiper reaches either of said two positions for releasably holding said wiper in either of said two positions.

2,670,070
SHOVELING APPARATUS
Jules Decat, Montrouge, France
Application March 27, 1951, Serial No. 217,693
Claims priority, application France May 3, 1950
3 Claims. (Cl. 198—8)



1. In shovelling apparatus, in combination, a wheel-mounted frame, a bucket-chain jib and an elevator-belt structure projecting from said frame in generally opposite directions, the inner end of said elevator belt being arranged beneath and in material-receiving relation with the inner end of said bucket-chain, buckets on said jib adapted to rake material inwardly, a circular rotary supporting means in a plane generally parallel to said elevator belt rotatable on said frame about an axis perpendicular to said plane, a generally horizontal shaft extending diametrically of said circular supporting means, means pivoting the inner end of said jib on said shaft, means for raising and easing said jib about said shaft, and means for rotating said support for slewing the jib.

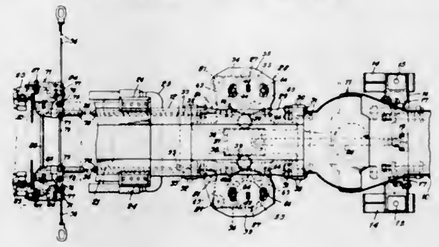
2,670,071
SHAKER CONVEYER
Ernst R. Bergmann, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 3, 1951, Serial No. 213,749
15 Claims. (Cl. 198—220)



1. In a shaker conveyor having a laterally swivelling reciprocable trough, an extensible trough telescopically mounted at the inby end of said reciprocable trough, and feeder mechanism for controlling relative telescopic movement of said troughs for extending or retracting said extensible trough during reciprocation of the

other trough, the combination of a pair of winding drums mounted on one of said troughs, each having a flexible sluing cable thereon adapted for connection to a fixed abutment at one side of said conveyor, a rotatable drive member for each of said drums, means responsive to relative telescopic movement of said troughs for rotating each of said drive members, and clutch means affording positive driving connection between said drive members and their respective drums.

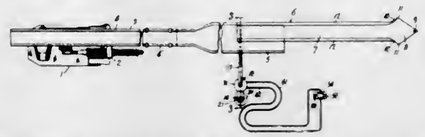
2,670,072
SHAKER CONVEYER
Ernst R. Bergmann and William W. Sloane, Chicago, Ill., assignors to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 10, 1951, Serial No. 214,934
4 Claims. (Cl. 198—220)



1. In a shaker conveyor having a laterally swivelling reciprocable trough, an anchoring support affording reciprocable movement of the swivelled joint, an extensible trough telescopically mounted at the end of said reciprocable trough line having a slideable ground supporting shoe at its inner end. feeder mechanism for controlling relative telescopic movement of said troughs connected to the reciprocable trough and slideably supported on said extensible trough intermediate the ends of the latter, the combination of a pair of winding drums mounted on the swivelling portion of the reciprocable trough intermediate the swivelling joint of the latter and the limit of inward telescoping movement of the extensible trough, each of said winding drums having sluing cables wound independently thereon adapted for connection to fixed abutments at opposite sides of said troughs, a rotatable drive member for each of said drums, a drive link means pivotally connected at one end to said swivelling trough portion and at the other end to said anchoring support for rotating said drive members in response to movement of said swivelling trough relative to said anchoring support, and one-way clutch means affording selective positive driving connections between each of said drive members and their respective drums.

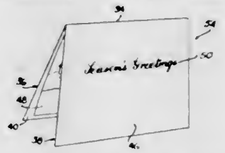
2,670,073
APPARATUS FOR THE LOADING OF SHAKER CONVEYERS
Charles Newton Bebinger, New Philadelphia, Ohio, assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application February 25, 1947, Serial No. 730,671
25 Claims. (Cl. 198—220)

1. A loading attachment for a reciprocating conveyor including a reciprocated pan section, a delivery trough section having a material pick-up section at one end thereof, said delivery trough section having its other end overlying said reciprocated pan section in position to deliver material picked up by said material pick-up section to said reciprocated pan section, and means for transmitting motion from said reciprocated pan section to said delivery trough and pick-up sections including driving and driven elements pivotally connected to said pan and trough sections



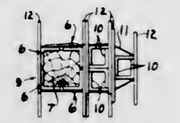
respectively and means for selectively connecting said elements in fixed relative position with respect to each other for movement as a unitary body or for releasing their connection at will to enable adjustment of the driving element relative to the driven element.

2,670,074
GREETING CARD PACKAGE AND DISPLAY CONTAINER
Samuel Golden, New York, N. Y.
Application October 24, 1952, Serial No. 316,731
4 Claims. (Cl. 206—45.31)



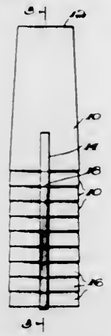
1. A greeting card package comprising a display container and a set of cards therein, said container having a front wall with an opening and a rear wall with an opening, said openings being covered with clear transparent flexible panes, each card having a central fold defining two panels, a picture on the outer face of one panel and a greeting on the inner face of the other panel, the picture carrying face of the top card of the set being uppermost and the picture being exposed through the opening in the front wall, the bottom card of the set being everted and having the greeting carrying face thereof lowermost, said greeting being exposed through the opening in the rear wall.

2,670,075
PACKAGED FENCE POST ASSEMBLY
Robert M. Wilson, Battle Creek, Mich., assignor to Dare Products, Incorporated, Battle Creek, Mich., a corporation of Michigan
Application February 2, 1951, Serial No. 209,088
10 Claims. (Cl. 206—47)



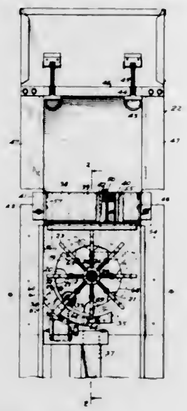
1. A unitary package containing posts, insulators and bolts for use in erecting an electric fence, said package including end blocks cooperatively associated with at least some of said posts to provide an elongated casing, said insulators and bolts being confined in said casing, and means holding the posts and blocks in assembled relation, wherein said posts are of right angular form in transverse section, and said blocks have corners received in the angles of the associated parts.

2,670,076
STACKED NECKBANDS
Frank E. Monks, Pittsburgh, Pa., assignor to Fuller Label & Box Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 22, 1949, Serial No. 106,311
1 Claim. (Cl. 206—65)



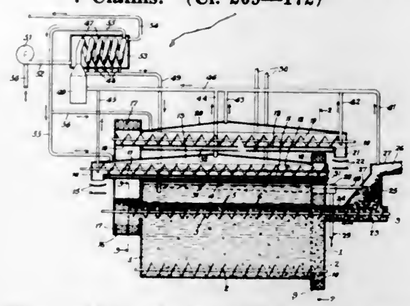
An article of manufacture comprising a stack of preformed conical neckbands for bottles in loosely nested relation without complete wall-to-wall contact to allow independent movement of each band, said bands being formed of foil-like, thin-walled, flexible and deformable material, and means for restricting rotational and axial movement to maintain the loosely nested condition of the neckbands including a single strip of pressure-sensitive adhesive material extending axially along the outside surface of the stack from the base end of said stack to the lower portion of the skirt portion of the uppermost neckband, said pressure-sensitive adhesive material adhering to the exposed skirt portions of said neckbands for absorbing shock without allowing movement of said neckbands sufficient to cause jamming by complete frictional wall-to-wall engagement of adjacent neckbands.

2,670,077
CAP SELECTING AND FEEDING MEANS
Harry A. Drew, West New York, N. J., assignor to Victor Industries Corporation, Brooklyn, N. Y., a corporation of New York
Application July 30, 1951, Serial No. 239,355
15 Claims. (Cl. 209—72)



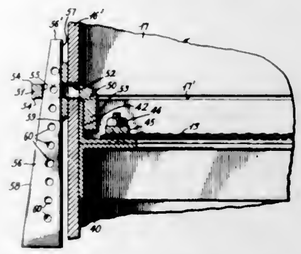
1. In mechanism of the character described, a rotatable recessed member provided with cap-receiving recesses, pins rotatable with said member and each urged to enter a recess adjacent thereto, a fixed plate having a hole therein in part of one diameter and in part of a larger diameter to provide an inwardly extending flange on the inner periphery thereof, the flange engaging and normally maintaining the pins out of the recesses and permitting a pin to engage the cap inserted into a recess when the member reaches a predetermined position relatively to said means, and means to remove a pin from the cap at either one of two different points dependent on the position of the cap in the recess.

2,670,078
METHOD AND APPARATUS FOR SEPARATING AND DRYING COMMINUTED SOLIDS
Nelson L. Davis, Chicago, Ill.
Application January 12, 1949, Serial No. 70,471
7 Claims. (Cl. 209—172)



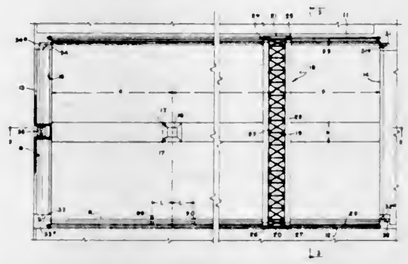
1. The method of separating and removing water from solids of different specific gravities which consists in providing a bath of liquid heavier than, immiscible with, and more readily vaporized than water, the specific gravity of which is greater than that of some and less than that of other of the solids, maintaining a supernatant layer of water on the surface of the bath, introducing the solids into the bath at a point below the surface thereof and out of contact with the water, conveying the material through the bath to permit the sink material to settle while positively holding the float material below the surface of the bath and without contact with the water, separately withdrawing the sink material and float material from the bath without contact with the water.

2,670,079
ATTACHMENT FOR VIBRATORY SCREENS
Fred K. Betts III, Harrisonburg, Va.
Application September 20, 1949, Serial No. 116,827
1 Claim. (Cl. 209—405)



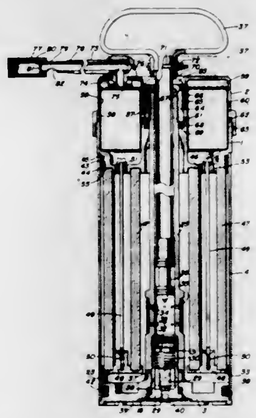
A vibratory screening mechanism for grading granular materials and the like comprising a housing having opposed vertical side walls and a screening unit, means on said side walls forming supporting ledges for said screening unit at opposite sides of said housing and projecting inwardly at right angles from said side walls, said screening unit comprising a screening medium bounded by angle irons having transverse flanges connected to said screening medium adapted to seat on said ledges and upright flanges for engaging the side walls of said housing, clamping means intercoupled with said housing for drawing said angle irons against said side walls and thereby stretching and securing said screening medium, said clamping means comprising a plurality of rigid hooks located in spaced relation longitudinally along each of said side walls, said hooks each being formed of bars of substantially rectangular cross section bent into right angular shape along a transverse axis substantially midway of its length to define an arm extending through the side walls of said housing in substantially perpendicular relation thereto and a depending finger extending at right angles to said arm and parallel to said side walls in overlying and engaging relation with the upright flanges of said angle irons to draw the upright flanges of said angle irons against the side walls of said housing, each of said arms having a vertical slot extending therethrough, and upwardly converging wedge-shaped members disposed externally of said housing and extending through said slots, said wedge-shaped members bearing against said housing side walls for camming said hooks outwardly of said housing and canting the depending fingers of said hooks downwardly to lock the upright flanges of said angle irons in intimately contacting relation throughout with said housing side walls and said transverse flanges in intimately contacting relation throughout with said supporting ledges.

2,670,080
SEDIMENT RAKING MECHANISM FOR LONGITUDINAL SETTLING TANKS
Charles H. Scott, Westport, Conn., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware
Application December 29, 1951, Serial No. 264,025
7 Claims. (Cl. 210—55)



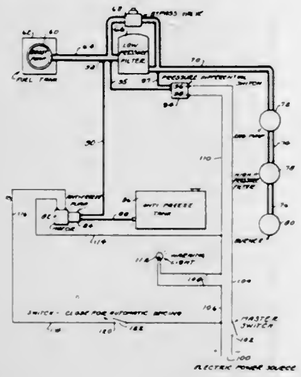
1. A longitudinal settling tank having a carriage spanning the tank and reciprocable between the ends thereof with sediment raking means supported from the carriage and operable by raising and lowering for effecting one-way conveyance of sediment upon the tank bottom towards a bottom outlet incident to the travel of the carriage; characterized by raking means comprising a first set of raking blades adapted to be raised and lowered for effecting conveyance of sediment when the carriage travels in the one direction, a second set of raking blades disposed in opposition to the first set and adapted to be raised and lowered for effecting conveyance of sediment when the carriage travels in the opposite direction, movable main carrier means supported from said carriage and operable for raising and lowering the two sets of blades in alternation, main actuating means cooperatively associated with said main carrier means for raising and lowering said sets of blades in alternation whereby sediment is conveyed by both sets of blades into a longitudinal collecting zone extending the length of carriage travel as between the ends of the tank with the sediment outlet disposed substantially within said longitudinal collecting zone, a pair of scoop members each of which is cooperatively associated with a respective set of blades, movable auxiliary carrier means supported from said carriage and operable for raising and lowering said scoop members in alternation, auxiliary actuating means for raising and lowering the scoop member in relation to the carriage travel whereby each respective scoop member is rendered active to advance sediment in and along said collecting zone with said set of blades moving towards the outlet and whereby the scoop is rendered inactive at said outlet to continue inactive while the set of blades is moving past and away from the outlet.

2,670,081
WATER PURIFIER
David H. Quinn, Brookline, Mass.
Application January 17, 1952, Serial No. 266,979
7 Claims. (Cl. 210—120)
(Granted under Title 35, U. S. Code (1952), sec. 266)



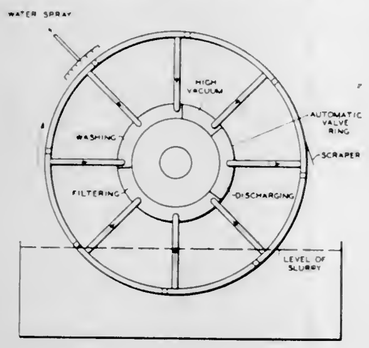
1. A purifier unit comprising a closed tubular casing having base, central and top sections, a hand piston pump centrally fixed to said base section and including a piston rod protruding through the top casing section, a filter unit circumferentially positioned around said pump, an inlet device in the base casing section, an outlet device on the end of the top section, and a foldable pump handle attached to the protruding pump piston rod, said foldable pump handle comprising a loop of spring bronze, the ends of which are firmly biased against opposite sides of the upper end of the pump rod and are pivoted on a bolt passing through them and the rod, said ends being curved to fit around said rod when the handle is in operating position, causing them to spread when the handle is folded down and causing the handle to drop into operating position when pulled up.

2,670,082
ALCOHOL INJECTION SYSTEM FOR DEICING AIRCRAFT FUEL FILTERS AND STRAINERS
Robert G. Dunn, Dayton, Ohio, and Robert F. Heiser, Valparaiso, Fla.
Application November 23, 1949, Serial No. 129,163
6 Claims. (Cl. 210—150)
(Granted under Title 35, U. S. Code (1952), sec. 266)



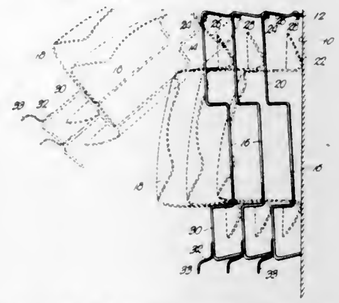
4. Apparatus for deicing a filter in the fuel line of an internal combustion engine comprising, power driven means to inject an antifreeze liquid in the fuel line at the upstream side of the filter, a pressure differential switch, conduit means connected from the fuel line upstream of the filter to said switch, and also from the fuel line downstream of the filter to said switch, and an electric circuit including a power source and said switch to energize said power driven means when the pressure in said fuel line downstream of the filter is reduced by icing below the pressure in said fuel line upstream of the filter by a predetermined amount.

2,670,083
REMOVAL OF FILTRATE FROM FILTER CAKES
Dwight L. McKay, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 28, 1949, Serial No. 124,083
10 Claims. (Cl. 210—201)



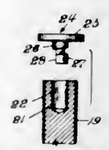
1. The improved method of filtering a subdivided solid material from a liquid in which it is contained which comprises the steps of forming a filterable cake with said subdivided solid material, maintaining said cake at a temperature at which a fluid to be applied defined later herein, will solidify, applying a fluid to said cake which fluid will solidify in the interstices of said solid material at the temperature of filtration, said fluid being immiscible with and inert in respect of said liquid and solid at the temperature of filtration, thus reducing the size of the interstices, thereby forming from said interstices during filtration a quantity of said liquid in substantial excess over the quantity which can be removed therefrom in any given operation without the employ of said fluid.

2,670,084
HATRACK
Harold D. Evans, Kansas City, Mo., assignor of one-half to Helen L. Evans, Kansas City, Mo.
Application September 27, 1950, Serial No. 187,046
4 Claims. (Cl. 211—32)



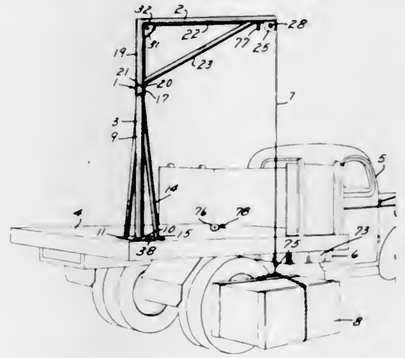
1. A hat rack of the multiple-bank type comprising a series of substantially U-shaped elements, including an innermost, an intermediate and an outermost element, each having a bight, normally disposed to receive the crown of a hat in supporting relationship thereto and a pair of spaced, normally upstanding legs extending from said bight; a laterally extending portion on each leg; means for mounting said portions of the legs of the innermost element on a support for swinging movement on a horizontal axis; means connecting the legs of said innermost element with said portions of the legs of the intermediate element for swinging movement of said innermost element and intermediate element relatively to each other on a horizontal axis; and means connecting said intermediate element with said portions of the legs of the outermost element for swinging movement of said intermediate and outermost elements relatively to each other on a horizontal axis.

2,670,085
DISPLAY DEVICE FOR RINGS AND THE LIKE FOR PERSONAL WEAR
Vincent Sorrentino, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application May 6, 1952, Serial No. 286,284
1 Claim. (Cl. 211—59)



A display device for rings and the like for personal wear comprising a base having a generally vertically disposed post for receiving rings in stacked relation, concealed locking means on said post comprising a central axial bore opening in the upper end thereof, a lock pin extending laterally through said bore, a cap for said post having a shank receivable in said bore and provided with a circumferential groove for engaging said pin in interlocking relation therewith, said shank having a flat thereon extending inwardly from the bottom thereof to intersect the bottom of said groove and positionable in register with said pin for inserting and removing said cap from the post, and said cap having a head of a size to extend a distance beyond the peripheral edge of said post sufficient to block the unauthorized removal of said rings from said device.

2,670,086
HOIST AND POWER UNIT THEREFOR
Jack J. Eisberg, Kansas City, Mo.
Application October 18, 1950, Serial No. 190,863
1 Claim. (Cl. 212—65)



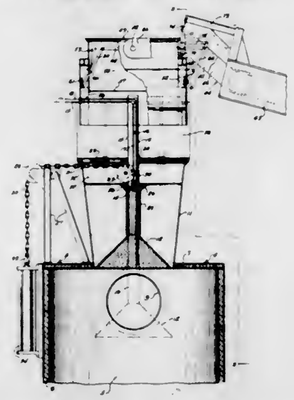
In a motor vehicle having a bed, a battery, a hoist with a tubular arm rotatable on a tubular mast supported on the vehicle bed with sheave pulleys rotatably mounted at each end of the tubular arm, and a cable extending through the tubular mast and tubular arm for attachment to a load to be lifted, said sheave pulleys being positioned whereby the cable operates over the pulleys and substantially axially of the tubular mast and tubular arm, a power unit comprising, a frame suspended from the vehicle bed, a drum rotatably mounted on the frame and having one end of the cable wound thereon, the axis of the drum being substantially perpendicular to a line from the center of the drum to the axis of the mast, a sheave pulley under the vehicle bed and adjustably mounted on the lower end of the tubular mast for rotation and longitudinal movement relative to said mast for positioning said sheave pulley to direct the cable toward the drum, a sprocket at one end of and drivingly connected to the drum, a worm gear speed reducer on the frame in spaced relation to the drum, a reversible electric motor on the frame and having driving connection with the worm gear in the speed reducer, a driven shaft in the speed reducer which operates only on operation of the reversible motor, a sprocket fixed to said driven shaft, a chain operatively connecting the sprocket on the driven shaft with the sprocket connected to the drum whereby only operation of the motor rotates the drum to wind and unwind the cable on said drum, a housing secured to the frame for substantially enclosing the drum, speed reducer and motor, said housing having an opening therein between the drum and mast for the cable, an electric circuit connected to the battery for energizing the reversible motor, relay switches in the electric circuit for controlling the direction of operation of the motor, and means in the circuit for selectively operating the relay switches for completing circuit to the motor to energize same.

2,670,087
SORTING APPARATUS
Rudolph Frank Stehlik, Antwerp, Belgium, assignor to Automatic Electric Laboratories Inc., Chicago, Ill., a corporation of Delaware
Application August 4, 1948, Serial No. 42,419
16 Claims. (Cl. 214—11)



1. In an article sorting apparatus, a plurality of operators' positions, a plurality of keying units, each of said keying units comprising operator's control means at one of said operators' positions, a plurality of continuously moving carrier chains, each of said carrier chains having a plurality of carriers, each of said carriers so positioned as to enable discharge of its contents into a particular group of destinations, means responsive to the operation of one of said keying units for directing an article from the associated operator position to one of said carrier chains, means included in each carrier of said chains to provide a busy or idle indication, means responsive to an idle indication by one of said carriers of said one carrier chain to further direct said article into said idle carrier, a receptacle, means in said receptacle to provide a destination code, and means made effective by said one keying unit for causing said one idle carrier to deposit said article into the receptacle having the designated code.

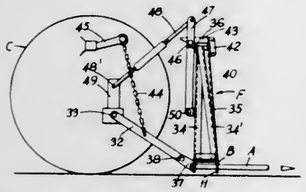
2,670,088
CUPOLA AND CHARGING APPARATUS THEREFOR
John N. Richardson, Port Washington, Wis., assignor to Modern Equipment Company, Port Washington, Wis., a corporation of Wisconsin
Application June 30, 1950, Serial No. 171,330
12 Claims. (Cl. 214—36)



1. In combination: a cupola having a water cooled top wall formed with a charging opening;

a charging hopper having a bottom opening of substantially the same size as and in registration with said charging opening; a hollow structural member extending transversely across said hopper and having a vertical aperture extending therethrough; a hollow conical member normally positioned in and sealing said hopper bottom opening; an elongated tubular stem projecting upwardly from said conical member through the aperture in said transverse structural member, said stem extending a substantial distance above the upper end of said hopper; water connections for circulating cooling water through said hollow conical member, said water connections extending upwardly within said elongated stem; and actuating mechanism including a member extending within said hollow structural member and connected to said stem for moving said stem and conical member downwardly to open the hopper bottom opening whereby the contents of said hopper may fall into the cupola.

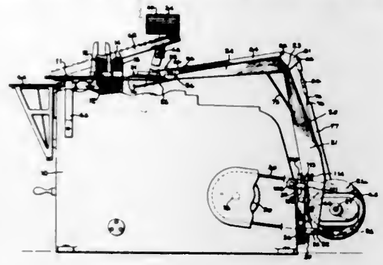
2,670,089
SWEEP OR LIKE ATTACHMENT FOR TRACTORS
Rex Munro Paterson, Cliddesden, Basingstoke, England
Application October 26, 1948, Serial No. 56,611
Claims priority, application Great Britain October 31, 1947
11 Claims. (Cl. 214—140)



1. An attachment for a tractor comprising a main frame including a transverse tool bar having a back rack, brackets on the main frame adapted for pivotal attachment to a relatively upper and lower guide and lift members on the tractor, a latch arm, releasable latch parts carried by said frame and latch arm, said latch arm being pivoted at one end to one of the brackets of the main frame below the top of the latter and above the point of pivotal attachment of said lower lift member thereto, said main frame and latch arm being normally secured against relative movement by said releasable latch parts so that said main frame can be raised and lowered by movement of said lift member, the upper guide member being pivotally connected to the other end of said latch arm, and said upper guide member being a tie arm adapted for pivotal connection to the tractor.

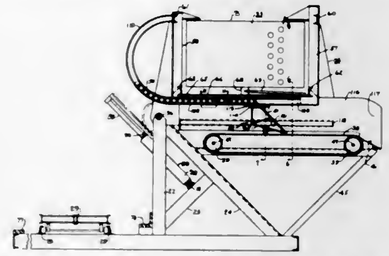
2,670,090
AUTOMATIC DISCHARGE APPARATUS FOR BOOK ROUNDING MACHINES AND THE LIKE
Arthur Crawley, Jack N. Binns, and Thomas E. Dugle, Cincinnati, Ohio; said Binns and said Dugle assignors to said Crawley
Application August 15, 1950, Serial No. 179,626
4 Claims. (Cl. 214—147)

1. In an automatic discharge apparatus for a book finishing machine or the like, an articulated arm constituting a substantially vertical arm, a substantially horizontal arm pivotally mounted upon the vertical arm, a plurality of pickup fingers pivotally mounted upon the free end of the horizontal arm, individual cam means connected to the respective arms and pickup fingers for pivotally swinging the same with respect to one another during the operating cycle of the finishing machine, a limb secured upon the free end



of the horizontal arm and overhanging the pickup fingers, the said limb being formed of flexible material and adapted to engage a book disposed upon the said fingers when the fingers are swung upwardly toward the limb and being adapted to disengage the book when the said fingers swing downwardly to a book discharge position.

2,670,091
CRATE UNLOADER
Russell W. Sinks, Sidney, Ohio
Application June 30, 1950, Serial No. 171,317
6 Claims. (Cl. 214—307)

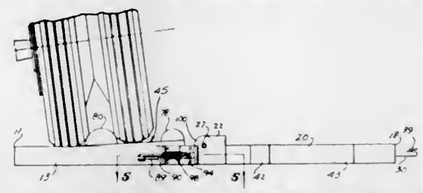


1. Apparatus for unloading a crate of cans, comprising in combination, with a main frame having a station for receiving a crate; a crate carrier frame moveable over the station and having means for engaging the crate for lifting the crate; a door carried by the crate carrier frame for covering the open top of the crate; means for moving the crate carrier frame from the station and for inverting the carrier frame, said carrier frame having means for holding the crate in inverted position; a conveyor below the frame for receiving the cans from the crate as the door is opened; tracks for slideably mounting said door to the crate carrying frame; an inclined ramp extending from the conveyor to an edge of said door and movable with the door upon the opening and closing thereof; and means for progressively moving the door and the ramp across the open top of an inverted crate to controllably discharge cans from the crate to said conveyor.

2,670,092
FOLDABLE WHEEL DOLLY
Denham A. Whitesell, Staunton, Va.
Application December 14, 1951, Serial No. 261,729
2 Claims. (Cl. 214—330)

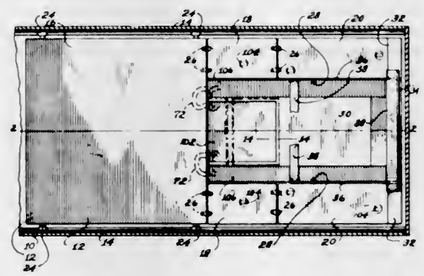
1. A vehicle tire dolly comprising a track of elongated rectangular shape including two parts

of substantially equal length pivotally connected together in end-to-end relationship for movement relative to each other about an axis extending transversely of said track, a dolly having a length somewhat less than one-half the length of said track mounted on the latter for movement from one end to the other end thereof, the two



parts of said track being foldable together with said dolly disposed therebetween, and latch means carried by one of said track parts and engageable with said dolly as said track parts are folded together to hold said dolly on said one track part while said track parts are being folded, said latch means being released to free said dolly upon unfolding of said track parts.

2,670,093
COMBINATION PLATFORM AND HAND TRUCK
Charles L. Reppert, Trenton, N. J.
Application May 20, 1952, Serial No. 288,969
6 Claims. (Cl. 214—515)



1. A combination platform and hand truck comprising a plurality of flat floor sections hinged together at their adjacent ends and adapted to fit within a delivery truck bed, the rear sections being relatively narrow and spaced apart in pairs, thereby forming a centrally disposed rectilinear space extending from the rear edge of the front section to the outer end of the rearmost section and the front section being formed of a solid sheet, a hand truck having a relatively flat floor adapted to fit within said rectilinear space with its floor surface substantially coincident with that of said platform; and cooperative means carried by said platform and said hand truck for detachably coupling said platform and hand truck together; said means including a transversely disposed hinged plate on the outer end of said rearmost section and a pair of notches in the front end of the frame of said hand truck engageable with said hinged plate.

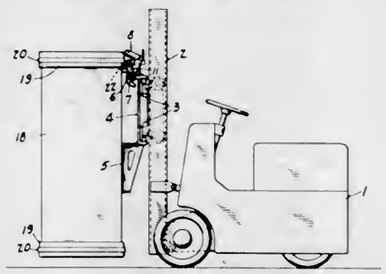
2,670,094
TOBACCO ELEVATOR
Joseph A. Kizis, South Windsor, Conn.
Application September 17, 1952, Serial No. 310,098
4 Claims. (Cl. 214—651)

1. An elevator adapted to hoist tobacco or the like when suspended from generally horizontally disposed laths comprising, an elongated upright frame, a rod supported by said frame for movements therealong, means for raising and lowering said rod, a first holder fixed to the lower portion of said frame and having a plurality of spaced apart extending arms adapted to support a lath, a second holder secured to the upper portion of said frame and having a plurality of spaced apart extending arms adapted to support a lath and arranged to pivot upwardly, a first carrier secured



to the lower portion of said rod and having a plurality of spaced apart extending arms adapted to engage a lath supported by said first holder and to elevate said lath to a position above said second holder when said rod is raised, said second holder being arranged to receive said lath from said first carrier when said rod is lowered, and a second carrier secured to the upper portion of said rod and having a plurality of spaced apart extending arms adapted to pivot upwardly and arranged to engage a lath supported by said second holder and to elevate the same when said rod is raised.

2,670,095
CARTON AND CRATE LIFTING ATTACHMENT
Albert V. Blatz, Thiensville, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application August 7, 1950, Serial No. 178,142
9 Claims. (Cl. 214—653)



1. In an attachment for lifting both crates and containers with overhanging joining and reinforcing portions, a support frame carried by elevator mechanism, a horizontal row of forwardly projecting substantially horizontally extending retractable fingers mounted on said frame for insertion into the interspaces of a crate, said fingers being individually biased to a

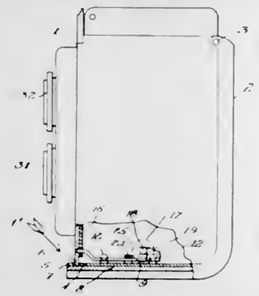
forward position, and an upwardly projecting member mounted on said frame and shaped for insertion beneath an overhanging joining and reinforcing portion of a solid container, said upwardly projecting member being insertable beneath said overhanging joining and reinforcing portion upon retraction of said fingers due to engagement thereof with said solid container.

2,670,096

LOCKING DEVICE FOR PHOTOGRAPHIC CAMERA BACKS

Wilhelm Knauf, Braunschweig, Germany, assignor to Franke & Heidecke, Fabrik Photographischer Prazisions - Apparate, Braunschweig, Germany, a firm

Application November 14, 1950, Serial No. 195,544
3 Claims. (Cl. 220—32)



1. A photographic camera of the twin lens reflex type comprising a body having front and top walls and being open at two adjacent sides at an angle to each other constituting the rear and bottom sides of the body, and a back member having two wall portions at an angle to each other arranged to fit against and form a tight closure with the camera body along its two open sides and to constitute back and bottom walls for the camera body when the back member is in closed position, hinge means connecting the back wall of said back member to said body adjacent the top wall thereof, said front wall of said body including near its bottom edge a downwardly extending rim, said bottom wall of said back member including a groove complementary to said rim for receiving the rim when the back member is closed, said back member being sufficiently resilient so that as the back member is swung on said hinge means from open position to closed position, the back member will spring slightly to enable said rim to snap into said groove, a catch mounted on said back member and engaging said body to prevent movement of said back member relative to said body in an opening direction until said catch is released.

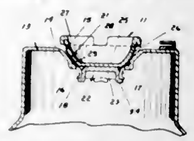
2,670,097

CLOSURE MEANS FOR CONTAINERS

George Strickland, St. Catherines, Ontario, Canada, assignor to American Flange & Manufacturing Co. Inc., New York, N. Y., a corporation of Delaware

Application July 2, 1951, Serial No. 234,747
5 Claims. (Cl. 220—40)

1. In a closure means for containers, a container having an opening in the top thereof formed of a plurality of annular formations extending downward and inward from the top thereof, a gasket suitably seated with respect to said annular formations, cams being formed on the lowermost of said annular formations, a closure comprising a stopple portion and tightening means, said stopple portion having a flat bottom wall and an arcuately shaped annular wall extending upward therefrom the top edge of which is provided with a plurality of slots extending therethrough, said tightening means comprising a flat wall fixedly secured to the flat bottom wall of said stopple portion and an annular skirt extending downward from said top wall



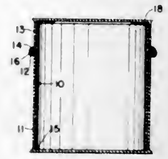
of said tightening means, a plurality of lugs extending downward from the lower edge of said annular skirt of said tightening means, said closure being positioned in the annular formations forming the hole in the top of said container for closing the same and the arcuately shaped annular wall of said stopple portion being seated on said gasket and being tightened down thereagainst as said lugs on said tightening means thereof engage with said cams in said container when turned to a tight position.

2,670,098

SEAL FOR CANS

Tom H. Thompson, Daytona Beach, Fla., assignor of one-half to Charles Creighton, Daytona Beach, Fla.

Application January 10, 1951, Serial No. 205,244
5 Claims. (Cl. 220—47)



1. Apparatus of the class described comprising an open ended cylinder, bottom means closing one end of said cylinder, a lid closing the other end of said cylinder, said lid having top and side wall portions, fastening means secured to said cylinder for fastening said lid on said cylinder, said fastening means being provided with spaced teeth, a split ring having free ends which are unattached, said ring being placed about said fastening means and held thereto by said spaced teeth which are contiguously bent about said split ring, teeth on the side wall portion of said lid engaging said split ring, said last mentioned teeth being bent about said split ring and interspersed between the teeth on said fastening means to lock said lid in sealed position on said cylinder, the top of said lid being drawn down by said teeth on the side wall portion of said lid to bind said lid in sealing relationship with said cylinder.

2,670,099

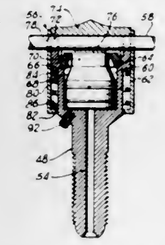
SAFETY BOLT CONSTRUCTION

Stanley N. Dunton, City Island, N. Y., assignor to Thomas C. Wilson, Inc., Long Island City, N. Y., a corporation of New York

Application March 30, 1950, Serial No. 152,970
21 Claims. (Cl. 220—55.3)

2. Safety attaching device comprising in combination a head provided with a recess having an opening at one end and a threaded shank

having a longitudinal bore extending therethrough from the other end of said recess, a piston mounted in said recess and movable outwardly toward and inwardly from the open end of said recess, said piston sealing the recess, stop means in said head limiting the outward movement of the piston in the recess, a clutch piece mounted on said head coaxially with said shank and movable axially on said head in one direction into clutching engagement therewith and in



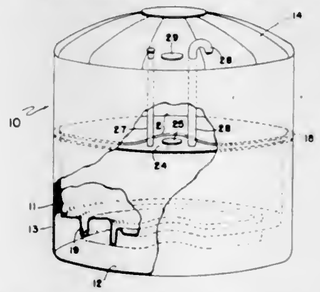
the opposite direction out of clutching engagement therewith, a spring operatively interposed between said head and said clutch piece and biasing said clutch piece toward turning engagement with said head, and an interponent operatively disposed between said clutch piece and said piston and movable by said piston outwardly through said open end of the recess to disengage said clutch piece from said head against resistance of said spring when fluid under pressure is admitted through said bore into said recess and move said piston outwardly.

2,670,100

STORAGE TANK

Alexander F. Fino and Fred L. Plummer, Warren, Pa., assignors to Hammond Iron Works, Warren, Pa., a corporation of Pennsylvania

Application June 13, 1951, Serial No. 231,408
12 Claims. (Cl. 220—85)



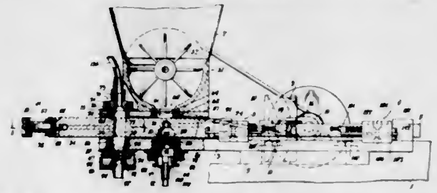
1. A cylindrical tank having a closed top for storing vaporizable liquids, which comprises a liquid-holding space having inlet means for conducting liquid into the space, discharge means for passing liquid from the space, a gas-impervious diaphragm extending from wall to wall of the tank, an inwardly extending flange member gas-imperviously secured to the tank intermediate the height of the tank and having its free edge portion gas-imperviously fastened to the diaphragm so that as subjected to varying fluid-pressure therebeneath the diaphragm can rise and fall through the opening defined by the flange, the flange including a horizontally inwardly protruding platform presenting a bulge in the circular outline of the flange, the bulge merging with the adjoining portions of the flange, the inner edge portion of the bulge being connected to the diaphragm along the outline thereof, a manhole in the platform, a cover for the manhole, and means for sealingly and detachably fastening the cover with respect to the manhole.

2,670,101

FILLING MACHINE ADAPTED TO DELIVER METERED AMOUNTS OF SOLID COMMINUTED MATERIALS

Charles A. Heisterkamp, Wynnewood, and Morris Dann and John P. Dura, Philadelphia, Pa., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y., a corporation of Delaware

Application May 3, 1949, Serial No. 91,094
7 Claims. (Cl. 222—1)



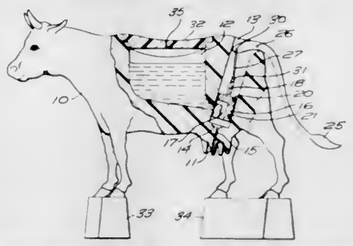
6. A process for metering successive small amounts of solid comminuted material which comprises the following steps: providing a bulk supply of solid comminuted material, transferring a portion of the material at a loading station to a partially enclosed three-dimensional metering cavity by the application of a regulated pulse of differential air pressure of short duration to said material while supporting said material in said metering cavity on an element pervious to air but impervious to said material and exterior to said metering cavity, moving said metering cavity from the loading station to a discharge station and at the same time removing excess material from said metering cavity by moving an unenclosed side thereof past a wiper element towards the discharge station, discharging the contents of said metering cavity at the discharging station by a second application of a regulated pulse of differential air pressure of short duration to the comminuted material contained in it, and reversing the travel of said metering cavity at the loading station and discharge station respectively immediately before and immediately after the application of said pulses of differential air pressure.

2,670,102

INANIMATE COW MILK DISPENSER

Philip D. Mangano, Providence, R. I.

Application January 30, 1953, Serial No. 334,184
1 Claim. (Cl. 222—78)



An inanimate cow milk dispenser comprising material formed to simulate a cow and having one perforated teat, a hollow casing and a bore

having a well within said cow figure, communication between said casing and said bore, a conduit connecting said well with said perforated teat and forming part thereof, a plunger provided with an L-shaped passageway and having a stem and grooves, fluid tight packing provided in said grooves, said plunger being slidably mounted in said bore with said L-shaped passageway engaging and disengaging said communication between said hollow casing and said bore, a cow's tail plunger handle pivotally mounted in said cow's body, a link pivotally mounted to said plunger handle and said stem and a cover provided with a vent removably positioned over said hollow casing and forming part of the contour of the cow figure.

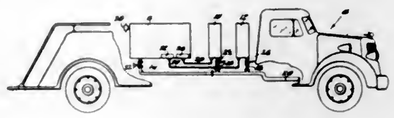
2,670,103
POWDER DISPENSING DEVICE
Herbert La Mers, New York, and Charles Leicht, Brooklyn, N. Y.
Application March 30, 1950, Serial No. 152,906
17 Claims. (Cl. 222—82)



6. The combination comprising a dispensing and measuring device with a container having a bottom opening, said device comprising an upper rectangular tray and a lower receptacle, said tray having a bottom with like openings uniformly spaced apart, wedges in the inner corners of said tray for holding the lower portion of said container within said tray, a movable plate at the top of said lower receptacle, a measuring chamber within said receptacle, said movable plate having like openings to coincide with the openings of the bottom of said tray, said movable plate having a dispensing drawer at the front end and a finger piece at its opposite end, a transverse wall across one end of said chamber, said movable plate slidable at the top of said measuring chamber and over the upper edge of said wall, said plate associated with said tray and adapted to permit material from said container to enter said measuring chamber when said dispensing drawer is in closed position, said movable plate substantially cutting off communication between said container and said measuring receptacle when said drawer is in dispensing position, spring means between said push plate and said transverse wall for automatically returning said drawer to its normal closed position.

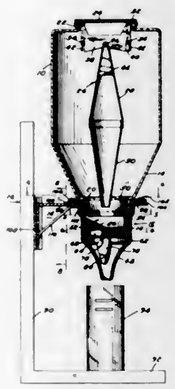
2,670,104
LIQUID PROPORTIONING APPARATUS
Howard G. Freeman and Gordon T. Gurney, Worcester, Mass., assignors to Rockwood Sprinkler Company, Worcester, Mass., a corporation of Massachusetts
Application June 22, 1950, Serial No. 169,694
10 Claims. (Cl. 222—145)

1. Liquid proportioning apparatus comprising two sources of liquid under pressure, a rigid container for one liquid, metering devices for the liquids, an accumulator comprising an expansible chamber within the rigid container and having its interior filled with the second liquid



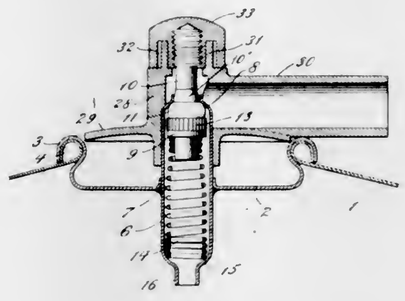
and its exterior subjected to the pressure of the liquid in the rigid container, and a connection from the source of the second liquid to the interior of the expansible chamber.

2,670,105
DISPENSER FOR COFFEE AND LIKE MATERIAL
Louis O. Huhn, Detroit, Mich.
Application December 6, 1951, Serial No. 260,190
3 Claims. (Cl. 222—251)



1. In a dispensing device for coffee and like material, a vertically arranged container open at its lower end for the discharge of content material therefrom, a hollow body secured to the lower end of the container in surrounding relation to the discharge opening thereof in order to receive the content material therefrom, said body having its lower end portion terminating in a discharge spout, an inclined member mounted in the body intermediate the opposite ends thereof and arranged to direct the content material entering the body toward one side thereof, a valve mounted in the body immediately below the inclined member and rotatable about the vertical axis of the body from a position permitting the flow of content material through the hollow body and out through the discharge spout to another position cutting off the flow of content material through the body, a ring member concentrically positioned in the discharge opening of the container and having a downwardly converging circular wall terminating immediately above the inclined member, and means for preventing the hollowing out of the content material within the container as it is progressively dispensed therefrom comprising an elongated double cone member within the container and shaped in the form of two cones secured together at their large ends with their small ends disposed adjacent opposite ends of the container, and means suspending the double cone shaped member within the container from one apex end so that the other apex end thereof projects downwardly centrally through the opposite discharge opening of the container and into the area defined by the converging circular wall of the ring member.

2,670,106
MULTIPURPOSE PRESSURIZED CONTAINER VALVE
John E. Ayres, Elizabeth, N. J., assignor, by mesne assignments, to Oil Equipment Laboratories, Incorporated, Elizabeth, N. J., a corporation of New Jersey
Application October 12, 1950, Serial No. 189,779
7 Claims. (Cl. 222—394)



1. In a dispenser valve mechanism for a pressurized container having a closure cap, the combination of a tubular valve body extending through and having portions protruding above and below the cap and secured thereto; a centrally apertured, downwardly facing valve seat at one end of the valve body; a tubular valve chamber shell telescoped over the portion of the valve body protruding above the closure cap, said shell having a wall portion extending above the valve body portion engaged by the shell and having a discharge opening in such wall portion; a plunger having its upper end extending through the valve seat aperture and beyond the upper end of the valve chamber shell and having its lower end located beneath the valve seat, the upper end of said plunger being threaded, sealing means carried by the lower end of the plunger, a closure spring engaging with the plunger and urging the sealing means carried thereby into engagement with the valve seat, and a member threaded on the upper end of the plunger, said member being engageable with the top of the valve chamber shell to bring the sealing means on the plunger into engagement with the valve seat independently of the closure spring.

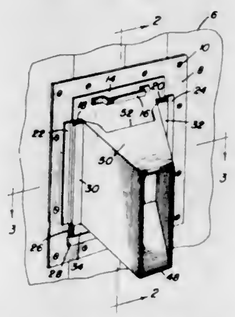
2,670,107
TEAKETTLE HAVING A MANUALLY OPERATED LID FOR THE POURING OPENING
William A. Welden, Stamford, Conn., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
Application April 9, 1948, Serial No. 19,980
4 Claims. (Cl. 222—474)

1. A teakettle comprising a container having a pouring opening, a lid for said opening operatively pivoted to said container for vertical swinging movement relative to such opening, a handle for the teakettle having a portion above the container in spaced relation thereto, an operatively rigid longitudinally reciprocable operating member for said lid connected thereto for swinging movement in a vertical plane relative thereto, said operating member having a finger grip in the space between said handle portion and said container, an upwardly facing surface portion of said operating member spaced from said lid being adapted slidably and swingingly to removably bear against a downwardly facing surface presented by said handle, and a spring acting on said operating member at a point lon-



gitudinally thereof between said upwardly facing surface portion thereof and said lid for urging said member longitudinally toward said lid and to swing upwardly about its connection to said lid, so as normally to cause said upwardly facing surface portion to bear against said downwardly facing surface and said member to be urged by the spring to slide over said downwardly facing surface toward the lid and simultaneously to be urged by the spring to swing upwardly about said downwardly facing surface as a fulcrum; the connection of said operating member to said lid being radially spaced from the axis of swinging of said lid and being operatively above said axis when said lid closes said opening.

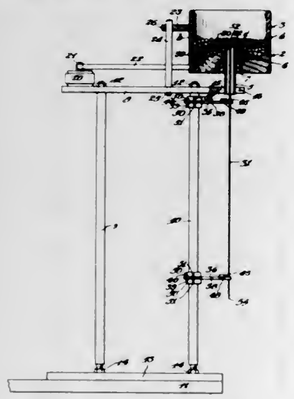
2,670,108
GRAIN DOOR FUNNEL WITH SLIDING CLOSURE
George Skogstad, Laurence G. Elm, and Lyle R. Fuller, Minot, N. Dak.; said Skogstad and said Elm assignors to said Fuller
Application January 9, 1950, Serial No. 137,632
1 Claim. (Cl. 222—561)



A grain bin non-spilling grain discharge attachment comprising a flat frame having a discharge opening, said frame being adapted to be secured to the wall of the grain bin in a manner to register said discharge opening with the grain opening in said wall, cooperating tracks superimposed against the exterior side of the frame and situated along the vertical side marginal

portions of said opening, a trap door slidably mounted in said tracks and normally closing said discharge opening, stop means for said door fixed at the bottom of said opening, a plurality of cooperating additional tracks carried by said first-named tracks and adapted to accommodate a readily attachable and detachable funnel, and a funnel open at its respective intake and discharge ends and embodying top, bottom and side walls, the side walls having outstanding flanges and said flanges being fitted into and releasably engaged with the additional tracks for purposes of removably supporting the funnel on the frame, the top wall at the end of the funnel adjacent the intake end having a cut-away portion defining a hand-grip as well as a hand hole, the upper end of said door having handle means cooperable with said hand hole and serving to facilitate the opening and closing of said trap door.

2,670,109
MACHINE FOR STRINGING BEADS OR OTHER LIKE PIERCED ARTICLES
Edward D. Perry, East Providence, and Salvatore D. Garzone, Johnston, R. I., assignors to Ansul-Craft, Inc., Providence, R. I., a corporation of Rhode Island
Application October 4, 1950, Serial No. 188,366
9 Claims. (Cl. 223—48)



1. In a machine for stringing beads and like objects, a hopper for containing a supply of such objects, a hollow bearing rotatably supporting said hopper, a motor drivingly connected to the hopper for rotating said hopper, an axial passage leading through the bottom of the hopper and said bearing, and a wire extending vertically through said passage and provided with a curved extension projecting laterally from the upper end of the passage into said hopper, the free end of said extension of the wire adapted to impale the objects thereon to cause them to slide down the vertical wire.

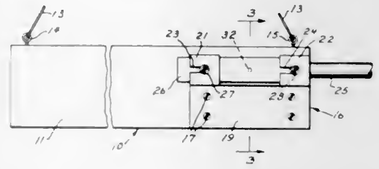
2,670,110
TROUSERS DISPLAY DEVICE
Samuel J. Harris, Dayton, Ohio
Application June 30, 1951, Serial No. 234,557
7 Claims. (Cl. 223—72)

1. A trouser leg display device comprising a back member having a broad upper end and a narrower lower end and tapered sides between the ends, a swiveled trousers crease forming rod adjustably mounted on and spaced in front of said back member and having an edge arranged to engage the crease-line of a trousers, and means including a turnbuckle for adjustably supporting



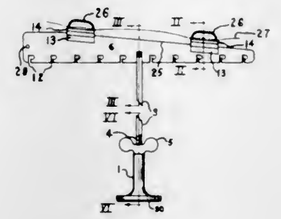
said rod on the lower end of said back member with the upper end of the rod free to move in a plane perpendicular to the back member.

2,670,111
FISHING ROD HOLDER
William P. Stahle, Newport News, Va.
Application July 26, 1950, Serial No. 175,988
9 Claims. (Cl. 224—5)



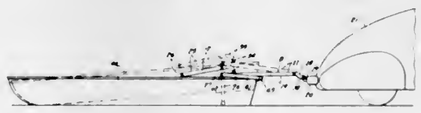
1. A fishing rod holder for supporting a fishing rod and reel from the body of a fisherman to permit normal manipulation of the rod and reel by the use of one arm only of the fisherman, comprising a rod supporting member having oppositely disposed body engaging surfaces, a harness for supporting the rod supporting member from the fisherman's shoulder and for positioning said member beneath one of the fisherman's armpits so that the said member may be securely and physically clamped between the body and the upper portion of the fisherman's arm, by physical contact of the body and arm of the fisherman with said surfaces, socket means carried by the rod supporting member, means carried by the butt end of a fishing rod for insertion in said socket means and cooperating therewith to securely and detachably engage and retain the butt end of the fishing rod to said rod supporting member, said socket means having a lateral entrance thereto for receiving by a sidewise insertion said means carried by the butt end of the fishing rod, and said socket means and said means carried by the butt end of the fishing rod including means for preventing withdrawal of the last mentioned means from the socket means in a forwardly direction but permitting withdrawal therefrom in a rearwardly direction, whereby the rod after casting may have the butt end thereof inserted in said socket means by the use of one hand only and after so inserted be totally supported by the rod supporting member without the use of the hands of the fisherman and thus permit free operation of the reel by the hand of the arm which is physically clamping the rod supporting member against the fisherman's body.

2,670,112
AUTOMOBILE CLOTHES HANGER SUPPORT
Lottie M. Kohlbeck, Norton Township, Muskegon County, Mich.
Application June 15, 1950, Serial No. 168,310
1 Claim. (Cl. 224—42.1)



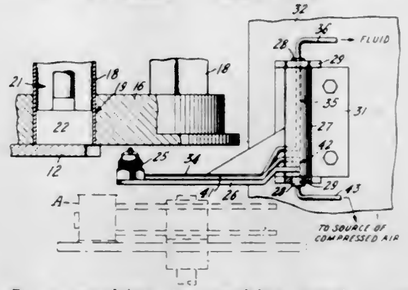
An automobile garment hanger support comprising a flat bottom base adapted to engage a flat surface of larger area than said base, a support extending upwardly from said base, a crosspiece having upper and lower surfaces pivotally attached to said top end of said support and being pivotal at its midpoint about a horizontal axis, a plurality of clamp members slidably attached to said upper surface of said crosspiece, and carrying bearing surfaces for engaging the underside of the top of an automobile body, and a plurality of hooks on the said lower surface of said crosspiece for receiving garment hangers.

2,670,113
AUTOMOBILE BOAT LOADING AND CARRYING ATTACHMENT
La Verne O. Ellingson, Monrovia, Calif.
Application May 26, 1948, Serial No. 29,277
11 Claims. (Cl. 224—42.03)



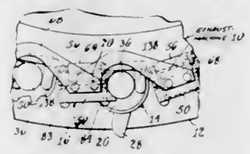
1. A boat loading device of the class described comprising an elongated main frame having means on one end adapted for pivotally connecting the same to the lower portion of a vehicle onto the top of which a boat is to be loaded for carrying, means pivoted on the other end of said frame adapted to be detachably secured to one end portion of the boat to be loaded, a shorter secondary frame slidably pivotally connected at one end to the main frame intermediate the ends thereof for movement lengthwise relative thereto and having means pivoted on the other end adapted to be detachably secured to the same aforesaid end portion of the boat to be loaded, and means for supporting the main frame in elevated relation to the ground when swung to a substantially horizontal position preliminary to loading of the boat atop said vehicle so that the boat after being attached to said frame may be swung relative to the main frame to an upright position preparatory to loading on top of said vehicle, said secondary frame serving to support said boat in a predetermined substantially rigid angular relation to the main frame in the upright position and during subsequent upward swinging movement of the main frame in the loading of the boat onto the top of said vehicle.

2,670,114
CAN FILLING MACHINE
Walter J. Dobbins 3rd, Little Falls, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application March 13, 1950, Serial No. 149,317
2 Claims. (Cl. 226—19)



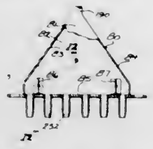
2. In a machine for packing meat or other sticky products into containers, the combination comprising a conveyor member, a packing plunger having a product contacting face, said plunger being mounted for reciprocation in said conveyor and movable by said conveyor in a predetermined path, a fixed bearing adjacent the path of said plunger, an arm pivotally mounted at one end on said bearing, a fluid projecting nozzle mounted on the free end of said arm and normally directed in an operative position toward the path of said product contacting face of the plunger for projecting a film of fluid onto said plunger face to prevent adherence of the product thereto during a subsequent packing operation of the plunger, said arm and nozzle being oscillatable on said bearing away from said path of the plunger to an inoperative and accessible position for cleaning and adjusting said nozzle.

2,670,115
LAMP HOLDER
John E. Brock, Fairmont, and Dominick Zanotti, Morgantown, W. Va., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 26, 1951, Serial No. 253,432
3 Claims. (Cl. 226—20.4)



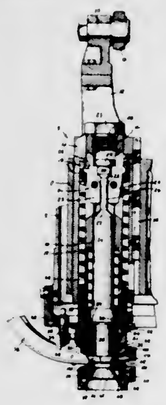
1. A tubular lamp holder for an automatic exhaust machine having a holder body, said body having a threaded lower extremity, a lower vertical slot and an inclined upper slot therethrough, a lamp rest secured about each end of the body, said lamp rests having two side plates each with an outwardly diverging edge on one end complementary to each other and a gravitational slide block slidable on said body, said block having two block side plates each with a side edge similar to said lamp rest edges, a bolt for slidably securing said block side plates about said body and extending through said block side plates a roller on said bolt and slidable in said upper inclined slot, a second bolt extending through said block side plate, a second roller on said second bolt and slidable in said lower vertical slot, and a clamping arm assembly secured to said block.

2,670,116
METHOD AND APPARATUS FOR THE EXTRUSION FILLING OF CONTAINERS WITH ICE CREAM AND OTHER SIMILAR SEMIPLASTIC FOOD SUBSTANCES
Frank M. Johansen, Milwaukee, Wis.
Application November 17, 1950, Serial No. 196,214
21 Claims. (Cl. 226—23)



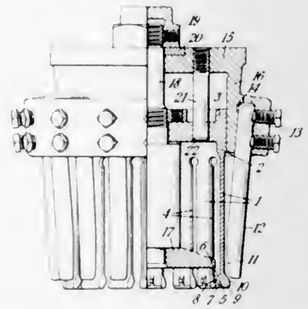
1. A device for the simultaneous filling of a number of containers, said device comprising a series of nozzles, a header in immediate communication with the nozzles for distributing therebetween the material to be filled into the containers, a source of material under pressure communicating with the header, and material flow restricting means comprising walls within the header for apportioning to respective nozzles the container filling material received from such source to promote uniformity of discharge of such material from respective nozzles.

2,670,117
APPARATUS FOR CROWNING CONTAINERS UNDER VACUUM
James Kantor, Chicago, Ill., assignor to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware
Application May 11, 1949, Serial No. 92,546
7 Claims. (Cl. 226—82)



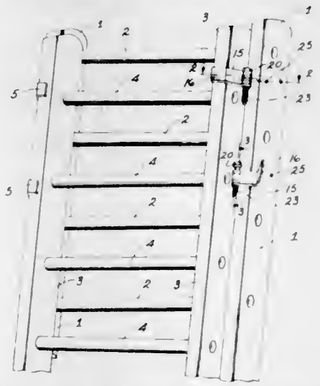
1. In an apparatus of the character described, in combination, a crowning head having a crown throat at its lower end; a crown crimping means arranged in said throat; said throat having a crown receiving aperture in the side wall thereof; a centering bell rigidly supported from said head below said throat and having a central container neck receiving opening therein and an annular crown rest surrounding said opening and disposed beneath said throat; means for effecting a sealing contact between said bell and said throat; inflatable means in said bell for sealingly engaging the neck of the container projected through said opening in said bell and providing by said sealing engagement a chamber above the mouth of the container in said throat; a gate for sealingly closing the aperture in the side walls of the throat to seal said chambers; means for biasing said gate in its closed positions; means for maintaining said gate in its open position and adapted to release said gate after the crown has been deposited in said throat to permit said throat to be closed and seal the closing aperture in the side walls of the throat to provide a seal for said chamber; means for exhausting the air from said chamber and means for operating said crimper to crimp the crown on said container neck during the period the air is exhausted from said chamber.

2,670,118
CLOSING MEANS FOR SECURING CLOSURES ON CONTAINERS
Samuel Davison Young, Rugby, England
Application June 30, 1948, Serial No. 35,994
Claims priority, application Great Britain July 23, 1947
4 Claims. (Cl. 226—86)



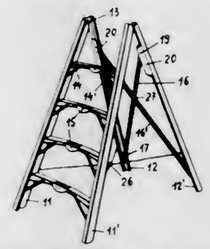
1. A closing head for securing closures having a peripheral flange to a container provided with a continuous bead at the mouth thereof defining a reentrant portion below the bead and which closure further includes a continuous edge extending radially outward of the flange, comprising an inner crown member, a plurality of circumferentially spaced depending resilient fingers extending longitudinally thereof in cantilever fashion, said fingers including upper portions, said upper portions being rigid with respect to said crown, said spacing between the fingers providing for substantial inward movement of said fingers and the fingers being operable on the closure to deform the continuous edge thereof at circumferentially spaced portions to provide an effective joint between the closure and the container while permitting ready removal thereof by prying, said fingers including an inner face normally parallel with the axis of the crown and said fingers terminating in a lower portion having an outer surface inclined outwardly and downwardly with respect to the axis of the crown, and an inner surface including an outer terminal planar portion inclined inwardly and upwardly toward the crown axis, a planar portion of less extent than the first mentioned portion normally parallel with the axis of the crown, and a third planar portion extending from said second portion and inclined inwardly toward and merging with said inner face of each finger, said three portions therefore defining tongues on each finger, said tongues being operable upon said closure to effect local displacement of said edge thereof at circumferentially spaced areas, a second crown member surrounding said first mentioned crown member, closely fitting thereabout and slidable relative thereto, a plurality of fingers corresponding in number to the first mentioned fingers carried by said second crown member in depending relationship and in radial alignment with the respective first mentioned fingers, said second mentioned fingers each including an upper portion and being more rigid than the first mentioned fingers but having at least slight resilient characteristics, said second mentioned fingers being inclined inwardly toward the first mentioned fingers and including a lower edge having an outwardly inclined inner face cooperable with the outer surface of the lower portion of said first mentioned fingers whereby upon axial movement of said crowns relative to one another each said second mentioned finger abuts and forces inward each of the first mentioned fingers to force circumferentially spaced portions of the continuous edge of the closure radially inward to engage below the rim, the radial inward movement of said tongues further locally deforming said edge, and means detachably and rigidly securing the upper portions of said second mentioned fingers to said outer crown so that the second mentioned fingers are removably attached to the outer crown in cantilever fashion permitting variation of the number of local deformations effected by the fingers of said inner crown.

2,670,119
EXTENSION LADDER BRACKET
Kalman A. Spluvak, Cleveland, Ohio
Application September 22, 1951, Serial No. 247,823
2 Claims. (Cl. 228—25)



2. A fitting for retaining the upper and lower ladders of an extension ladder in assembled relation and for permitting assembly and disassembly thereof by moving the upper ladder laterally relative to the lower ladder, comprising a lower flat plate to be secured against the inner side of the adjacent side rail of the lower ladder, an upper, right angle shaped plate to lie close to the outer side and top edge of the adjacent side rail of the upper ladder, said plates having pivot-receiving eye portions to be positioned approximately midway between the upper and lower edges of the adjacent side rail of said upper ladder, one of said plates having two spaced apart eye portions provided, respectively, with cylindrical and non-cylindrical pivot-pin-receiving holes and the other plate having an eye portion between the said two eye portions and provided with a pivot-pin-receiving hole conforming in cross-section to that of the said non-cylindrical hole of the other plate, a pivot pin having a head at its upper end and a shank in and having axially spaced sections conforming in cross-section to the cross-sections of said holes in said eye portions, and spring means on the lower end of said shank and compressed against the adjacent plate for urging said pin downwardly endwise to bring its non-cylindrical parts into said non-cylindrical holes of the plates thereby to lock the upper plate in position to retain the upper ladder in assembled position relative to said lower ladder, said spring permitting upward endwise movement of said pin in the opposite direction to bring its non-cylindrical part into only one of said eye portions and thereby to permit the angle plate to be rotated through about 90° to clear the adjacent side rail of the upper ladder.

2,670,120
COLLAPSIBLE LADDER, DOUBLE LADDER, AND STEPLADDER
Emanuele Sanguineti, Genoa, Italy
Application May 12, 1950, Serial No. 161,543
Claims priority, application Italy May 16, 1949
2 Claims. (Cl. 228—37)

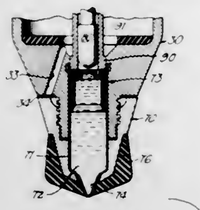


1. A collapsible step ladder comprising in combination a pair of ladder uprights having an angle section, each upright being formed with a longitudinal groove, bars slidably mounted within said grooves, means for limiting the sliding of said bars within said grooves; rung sections hinged at like intervals to each of said uprights, means for hinging the rung sections hinged to one of the uprights to the corresponding rung section of the companion upright of the pair, means for limiting the angular movement of the rung sections from a position adjacent to the respective uprights in upward direction to a position substantially at right angles to the uprights, tie rods attached by one of their ends to said slidable bars and by their other end to a rung section, a prop having an angle section hinged at the top end of each of the ladder uprights, a pair of cross tie bars hinged together at their middle and to the props at one of their ends, longitudinal slots in the other ends of said cross tie bars, bracket plates fastened near the top ends of said props, pins fastened to said bracket plates and engaging the slots at the ends of the cross tie bars; and flexible tie means connecting the uprights and props near their lower ends so as to prevent excessive swinging apart of the hinged ladder uprights and props.

2,670,121
FLEXIBLE FOLLOWER FOR METAL AMPOULES
Robert Pauli Scherer, Detroit, John Otto Scherer, Grosse Pointe, and Leon V. Whipple, Berkley, Mich., assignors to R. P. Scherer Corporation, Detroit, Mich., a corporation of Michigan
Application January 31, 1951, Serial No. 208,676
2 Claims. (Cl. 128—272)

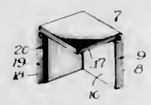
1. In a jet injection ampule, a tubular shell serving as a medicament container and having one end tapered and closed except for a minute

ejection orifice, the other end being open, and a resilient generally cup-shaped closure member for said open shell and disposed therein with its mouth facing said closed ampule end, the bottom of said closure member being formed with an inner central recess and with an outer axially extending annular groove surrounding said recess



permitting axial movement of the recessed bottom portion, the side wall of said closure member being of uniform thickness, inclined outwardly with respect to the longitudinal axis of said closure member, and being formed with an outwardly cylindrical lip bounded terminally by an inner outwardly inclined annular surface.

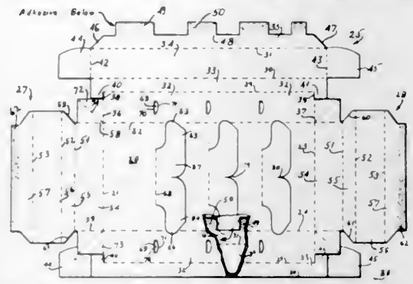
2,670,122
CORNER PAD
George W. Davidson, Whittier, Allen M. Kupfer, San Gabriel, and Charles B. Kilmer, San Marino, Calif., assignors to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application March 22, 1952, Serial No. 278,092
2 Claims. (Cl. 229—14)



1. A corner protector pad composed from a single rectangular piece of corrugated paperboard differentiated by scores and slots into eight panels arrayed in two side by side series of four panels each with each panel of each series opposite to a panel of the other series and with opposite panels of substantially equal corresponding dimensions, the opposed panels at one end of the piece being separated from one another by a slot and each of the other three panels of each series being differentiated from their correspondingly opposite panels by a crease score aligned with said slot and extending longitudinally of the piece, the opposed panels at said one end being joined to their respectively adjacent panels by transversely extending aligned scores, the other three panels within each series being separated from one another by slots extending transversely of the piece of paperboard between places adjacent to the opposite longitudinal edges of the piece, and a crease score extending in alignment with and from each end of each transversely extending slot to the adjacent longitudinal edge of the piece.

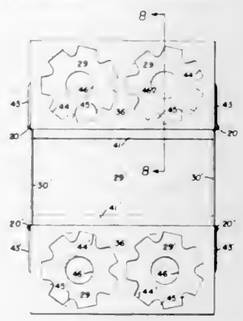
2,670,123
CARTON
William P. Frankenstein, Cincinnati, Ohio
Application July 28, 1949, Serial No. 107,329
10 Claims. (Cl. 229—27)

1. In a carton of the class described a bottom panel, side walls from two opposed edges of the bottom panel, each side wall including inner, outer, top and bottom wall members with the inner wall members integrally, hingedly connected with the bottom panel to upstand therefrom and with said inner and outer wall members spaced from one another by the top wall member, said bottom panel and side walls being formed from a single blank with score lines defining the bottom panel from the side inner wall members, a transverse partition flap formed in the bottom panel and having reduced ends



formed in the side inner wall members, said partition flap arranged to upstand normal to the bottom panel and transversely thereof, said side inner wall members having opposed apertures therein to receive the partition flap reduced ends and with said reduced ends, respectively, projecting into the space between the inner and outer wall members of said side walls, and end walls hingedly connected to the remaining edges of the bottom panel.

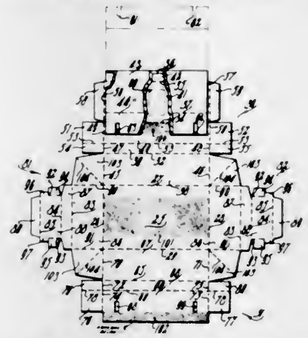
2,670,124
PAPERBOARD SERVING TRAY
Earl P. Buchmiller and Harold Cohen, Denver, Colo.
Application January 16, 1952, Serial No. 266,648
4 Claims. (Cl. 229—27)



2. A serving tray comprising, in a unitary, self-locked, interfolded assembly, a rectangular tray bottom member, like side strip panels integrally and foldably upstanding perpendicularly from and along opposite edge margins of said bottom member, foldably-related end extensions of said panels aligned to traverse opposite ends of said bottom member in perpendicular relation with said member and panels, a foldably-related end extension of said bottom member, on each end of said bottom member, transversely scored as a succession of contiguous rectangular areas, each of said bottom member end extensions having an innermost area upstanding perpendicularly from the bottom member as a tray end closure exteriorly and upwardly across the adjacent side strip panel end extensions, a next outward area spanning between upper margins of the side

strip panels to spacedly parallel the bottom member as a cover for a portion thereof, a next adjoining area spanning between the side strip panels to edge-close against the bottom member in spaced parallelism with said end closure area as a partition transversely of the tray, tabs projecting from opposite ends of said partition area through slits intersecting the side strip panels, foldably-related flaps on opposite margins of said cover area exteriorly embracing the side strip panels in end engagement with said bottom member and edge-abutting relation with ends of said partition area through slits intersecting said panels perpendicular to and intersecting corresponding ends of the tab-accommodating slits, container-seating apertures intersecting said cover area, and a terminal strip foldably and perpendicularly related to said partition area in surface engagement against said bottom member to stiffen the associated partition area against flexure.

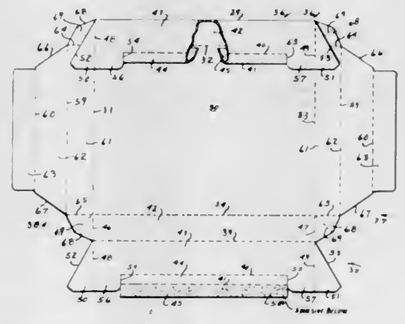
2,670,125
CARTON
William P. Frankenstein, Cincinnati, Ohio
Application March 19, 1948, Serial No. 15,871
15 Claims. (Cl. 229—31)



1. In a carton of the class described formed of a single blank of card or paper board material comprising a bottom, extensions from two opposed sides of said bottom, one extension being sub-divided into panels to form a side wall including an outer and an inner wall member, the other extension being sub-divided into panels to form a second side wall and platform including an outer wall member, an inner wall member and a platform, said inner wall member being of less height than the outer wall member and spacing one side of said platform upwardly of the bottom, the panels of each of said extensions, respectively, being hingedly connected to one another and to the bottom whereby they may be folded flat on one another for erection by merely raising same from their flat positions, means hingedly interconnecting and interengaging the first side wall and the other side of the platform with one another so that said carton can be knocked down with the side walls inner and outer wall members and platform superimposed on one another and so as to anchor the platform and first side wall against independent upward movement, and extensions from the remaining sides of the bottom for forming end walls.

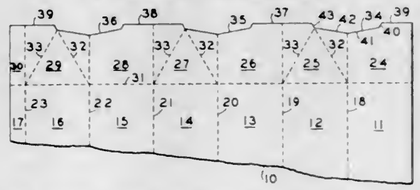
2,670,126
CARTON
William P. Frankenstein, Cincinnati, Ohio
Application February 24, 1949, Serial No. 78,052
14 Claims. (Cl. 229—31)

1. In a carton of the class described formed from a single blank comprising a main panel, extensions from each side of the main panel, forming the walls of the carton, with each extension subdivided into panels constituting an outer wall member, a top wall member and an inner wall member, each top wall member of each extension having an effective length greater than the inner wall member of its extension and each top wall member having a width greater than the width of the inner wall member, two opposed extensions, forming the side walls, each having the ends of its inner wall member inwardly of the corresponding ends of the top wall member and the top wall member having lugs flanking the ends of the inner wall member, a glue flap



hingedly carried by the inner wall member for securing the lower ends of the inner wall members to the main panel inwardly of the connection of the outer wall member therewith a distance less than the width of the top wall member so that the inner wall members have their inner ends secured to the main panel, said inner and top wall members of each wall extending at angles of opposite inclination with respect to one another and to the main panel with the side wall top wall member lugs underlying the remaining opposed extensions top wall members for supporting same, and cooperating means on said extensions for locking the walls in their erected positions.

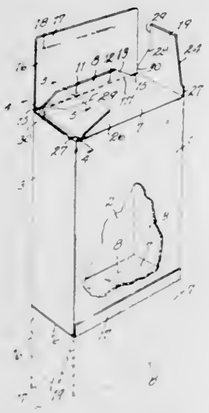
2,670,127
FOLDED END-PANEL CARTON
Augustus W. Gleason, Berkeley, and Henry M. Bowles, San Francisco, Calif., assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application June 8, 1950, Serial No. 166,845
4 Claims. (Cl. 229—37)



1. A single blank of foldable material for forming an hexagonal carton comprising a body portion having six side panels and a side closure flap for forming the six sides of said carton, said side panels and flap being defined from one another by score lines, top forming panels extending outwardly from each of said side panels and said flap and defined therefrom by a score line extending the width of said blank, score lines forming an isosceles triangle in alternate top panels with the base of said triangle defined

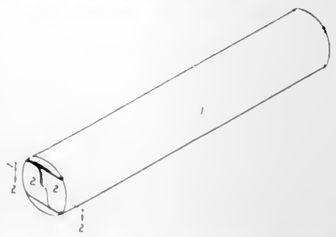
by the side panel scores lines and the top panel score line, the other of said alternate top panels being unscored, and each of said top panels having an outwardly extending tongue portion and an inwardly extending notch portion from the center of said panel to the score lines defining the opposite edges of said top panel, and notch portions and tongue portions of each of said scored top panels being respectively adjacent the notch portions and tongue portions of the adjacent unscored top panels.

2,670,128
CARTON
Frank H. Stowitts, Battle Creek, Mich., assignor to Michigan Carton Company, Battle Creek, Mich.
Application August 15, 1947, Serial No. 768,886
3 Claims. (Cl. 229—38)



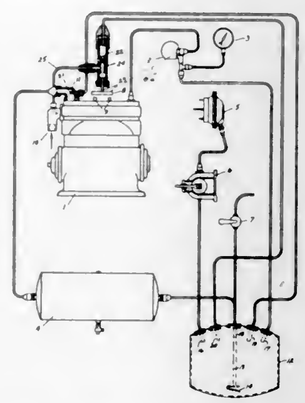
1. A carton comprising front, rear and side walls having end closure members hingedly connected thereto at one end of the carton, the closure member of the front wall constituting an inner closure member, the closure member of the rear wall constituting an outer closure member, the closure members of the side walls constituting intermediate closure members, the hinged connection of the inner closure member to the front wall being disposed inwardly of the hinged connections of the intermediate closure members to the side walls, said hinged connections of the intermediate closure members being disposed inwardly of the hinged connection of the outer closure member to the rear wall, said inner and outer closure members being of dimensions substantially corresponding to the cross sectional dimension of the carton, said inner closure member having a sealing flap extension on the swinging edge thereof, said flap extensions being disposed inwardly of the ends of said swinging edge and having a hinged connection to said swinging edge and having an adhesive connection to the inner side of the outer closure member and lying flatly against the inner closure member when the outer closure member is in closed position, said hinged connection comprising a score and a line of incisions intermediate the side edges of the score to facilitate folding the extension flap flatly against the inner closure member, said intermediate closure members being recessed at the rear thereof to permit the extension flap throughout the length thereof to lie flatly against the inner closure member.

2,670,129
SHIPPING TUBE WITH INTEGRAL END CLOSURE
James C. Baxter, Minerva, and John H. French, Beloit, Ohio
Application March 24, 1950, Serial No. 151,758
3 Claims. (Cl. 229—93)



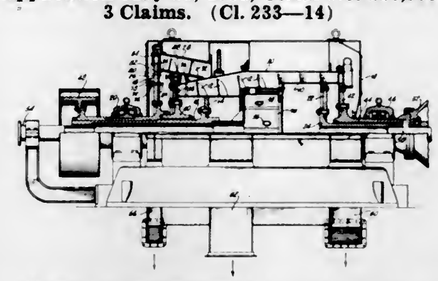
1. A shipping tube of cylindrical form having four substantially equiangularly spaced axial slots of substantially equal length extending inwardly from an end thereof to provide four end closure flaps each of a width but slightly less than the arcuate width of a quadrant of the cylinder, two of said slots being diametrically opposite one another and opening to slots extending circumferentially from opposite sides thereof to adjacent the longitudinal center line of each flap to provide a laterally extending locking tongue on the outer end of each flap.

2,670,130
AIR BRAKE SYSTEM COMPRESSOR
Eugene S. Bloxsom, Bridgeport, Conn., assignor to Preventive Maintenance Company, Bridgeport, Conn., a corporation of Connecticut
Application September 8, 1950, Serial No. 183,867
3 Claims. (Cl. 230—24)



1. In an air brake system or the like, an air compressor having a discharge line to a pressure reservoir, a solvent tank having an inlet line from the reservoir below the normal liquid level in the solvent tank and an outlet line from the solvent tank from above the normal liquid level in the solvent tank to the discharge line, another outlet line from the solvent tank to the point of use of the compressed air, and a connection from the first outlet line into the discharge line facing downstream as regards the direction of air flow in the discharge line so as to create suction in the outlet line.

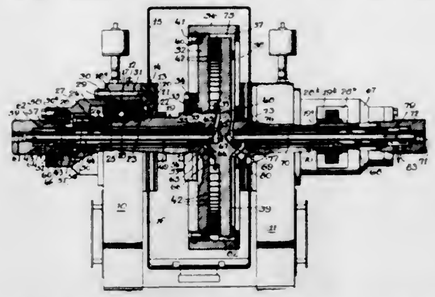
2,670,131
CENTRIFUGE WITH INTERSTAGE WASHING
Robert C. Ried, Carle Place, N. Y., assignor to Knowles Associates, New York, N. Y., a copartnership
Application May 23, 1951, Serial No. 227,908
3 Claims. (Cl. 233—14)



1. A two-stage centrifuge adapted to be used in separating a particulate solid material from a liquid comprising, in combination, a first rotor including a first-stage centrifuge bowl and a second-stage conveyor scroll, a second rotor coaxial with said first rotor and including a first-stage conveyor scroll adjacent to the inner surface of said first-stage bowl and a second-stage bowl embracing said second-stage scroll, said first stage bowl and scroll being located at least partially within said second stage scroll and bowl, driving means for driving said two rotors at different speeds, whereby each of said centrifuge bowls cooperates with its adjacent scroll to effect at least a partial separation of said solid material and liquid, the solids discharge end of said first rotor being provided with a plurality of passages for conducting said solid material to said second-stage bowl and the liquid discharge end of said second-stage bowl being provided with an end plate, a first annular ring mounted on said end plate and cooperating therewith to define a first liquid-retaining channel, means for supplying a washing liquid to said channel, a second annular ring mounted at the solids discharge end of said first rotor and cooperating therewith to form a second liquid-retaining channel, a plurality of conduits communicating with said first channel and extending through said end plate to a point opposite said second channel, and a port adjacent to each of said passages and interconnecting said second channel and the second stage separating space of said centrifuge whereby washing liquid can be supplied to said solid material as it passes from the first to the second stage of said centrifuge.

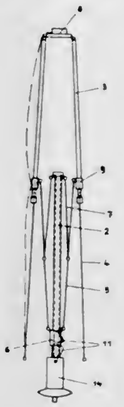
2,670,132
CENTRIFUGAL COUNTERCURRENT CONTACT APPARATUS
Walter J. Podbielniak, Chicago, Ill., assignor of one-half to Wladzia G. Podbielniak
Application August 19, 1949, Serial No. 111,218
12 Claims. (Cl. 233—15)

1. In centrifugal countercurrent contact apparatus for effecting intimate contact between immiscible or partially immiscible liquids of different densities, a rotor having an interior working space, means for supplying heavier liquid to and means for removing lighter liquid from the interior of the rotor in the proximity of the axis thereof, means for forcing lighted liquid into and means for discharging heavier liquid from the interior of the rotor in the proximity of its periphery, spaced concentric partitioning rings within the rotor and forming a plurality of spaces therebetween, each of said rings being provided with openings distributed over the surface area of the rings, all of which openings are small and have one dimension of from 0.007 to 0.080 inch and through which, on rotation of the rotor, the



liquids are forced to pass as jets, the spacing between adjacent rings varying as an inverse function of a power of the radius from 0.5 to 2.

2,670,133
TELESCOPIC UMBRELLA
Alois Völker, Leichlingen, Germany, assignor to Rosenkaimer & Cie., Leichlingen, Germany, a firm
Application September 8, 1950, Serial No. 183,851
5 Claims. (Cl. 135—26)

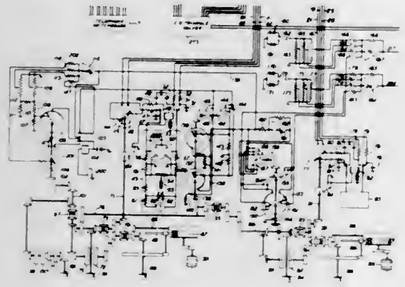


1. A folding umbrella comprising telescoping upper and lower stick sections, a runner slidable on said stick sections, inner and outer telescoping rib members, a crown independent of the upper stick section and to which the inner ends of the inner rib members are connected, struts extending between the runner and the inner ends of the outer rib members and auxiliary brace members extending between the upper end of the upper stick section and the struts.

2,670,134
COMPUTER FOR MULTIPLE BALLISTICS
Emory Lakatos, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 29, 1944, Serial No. 570,284
37 Claims. (Cl. 235—61.5)

1. In an artillery computer controlled in accordance with observations of a target including, a shaft rotated proportionally to the angle between an arbitrary axis through the position of a pivot gun and the line of fire to the predicted

position of said target of said gun a source of voltage, and computing means for producing from said source a voltage proportional to the range from said pivot gun to the predicted position of said target, a second source of voltage having two free poles of opposite polarity and a grounded intermediate tap, a first potentiometer having a winding varying in resistance with a cosinusoidal function, the points in said winding where said function is a maximum being connected to said poles, and the intermediate, equidistant points in said winding being grounded, a first and a second brush rotated by said shaft and contacting said winding to select a first and a second voltage respectively proportional to the sine and cosine of said angle, a second potentiom-



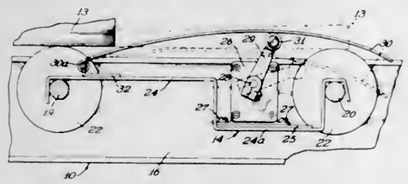
eter having a grounded winding connected to said first brush and a third brush adjusted to select a voltage proportional to the lateral distance from said axis to a second gun, a third potentiometer having a grounded winding connected to said second brush and a fourth brush adjusted to select a voltage proportional to the component along said axis of the displacement of said guns, a thermionic amplifier having grounded input and output circuits, means for connecting said third and said fourth brush to the input circuit of said amplifier, and means for connecting said computing means to the input circuit of said amplifier, whereby the voltage of the output circuit of said amplifier is made proportional to the range from said second gun to the predicted position of said target.

2,670,135
CONVEYER COUNTER

Eugene E. Flesner and John Lynch, Chicago, Ill., assignors to Jewel Tea Company, Inc., Chicago, Ill., a corporation of New York

Application April 20, 1951, Serial No. 221,994

5 Claims. (Cl. 235—98)



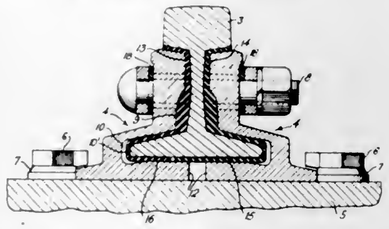
5. In a counter for a conveyor including a pair or longitudinal frame members, a plurality of longitudinally spaced parallel axles carried between the frame members and a plurality of laterally spaced rollers on each axle, a support member arranged to extend longitudinally over a pair of adjacent axles intermediate the frame members and having end portions shaped to receive the adjacent axles for retaining the counter in position thereon, a register supported by said support member intermediate said end portions thereof so as to be disposed between the pair of adjacent axles, and a register actuator resiliently urged to a position with a part thereof in the path of articles moving on the conveyor to be actuated by such articles as they pass through on the rollers.

2,670,136
RESILIENT TRACTION RAIL JOINT INSULATOR

Nelson K. Moses, Ashtabula, Ohio, assignor to Railroad Rubber Products, Inc., a Florida corporation

Application October 22, 1948, Serial No. 55,949

4 Claims. (Cl. 238—155)



1. In an electrically insulating rolling stock supporting rail joint in which two rolling stock supporting rails are held in spaced insulating relationship to one another by means of an insulating end post and joint bars which extend beneath the base of the rails bolted to the rails on each side thereof in spaced relationship thereto, the bolts being insulated from the joint bars, the improvement which comprises integral molded preformed resilient bodies formed solely of rubber interposed between each side of said rails and said joint bars and approximately coextensive with the joint bars, each of said rubber bodies having openings therein at spaced points along their lengths to receive the bolts employed to hold the joint bars and rails together, said rubber bodies being maintained in stressed condition in intimate contact with the outer surface of said rolling stock supporting rails along the underside of the head of the rails, the vertical web of the rails, the top surface of the base of the rails and beneath a substantial portion of the underside of the rails and with the rail facing surface of the joint bars opposite the aforementioned parts of the rail to completely fill the space therebetween including the irregularities of the surfaces of the rails and joint bars, except at the rail base edges, under the pressure imposed by the bolts which pass through the joint and hold the same together, the relationship of rails, joint bars and rubber bodies being such as to provide the rubber bodies with unrestrained ends to permit the spreading of the rubber bodies under the force placed upon them by the bolts whereby the bolts are maintained under tension by means of the resilient action of the rubber bodies.

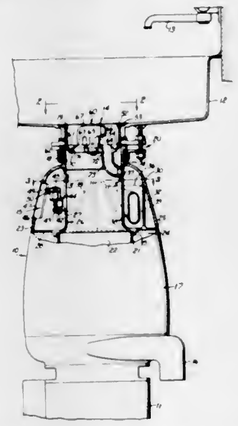
2,670,137
FLOAT CONTROLLED GARBAGE DISPOSER

Hans Jordan, Los Angeles, Calif., assignor, by mesne assignments, to Given Machinery Company, Los Angeles, Calif., a copartnership

Application February 24, 1947, Serial No. 730,482

25 Claims. (Cl. 241—36)

1. In a waste disposal device, the combination of: hopper means having an opening therein through which waste material and a fluid can be inserted into said hopper means; comminuting means in said hopper means, adapted to comminute waste material therein; power means for operating said comminuting means; switch means for energizing said power means; walls defining a float chamber; float means in said float chamber; means for conveying fluid from said opening to said float chamber so as to move said float means therein; and means operatively connecting said float means and said switch means so that movement of said float means actuates said switch means.



11. In a stopper device, the combination of: a bottom plate adapted to seat in an opening and having a drain port therein; a top plate movable relative to said bottom plate and having an aperture therein which is adapted to register with said drain port; angularly directed depending spout means carried by said bottom plate and communicating with said drain port for receiving liquid from said drain port of said bottom plate and directing the liquid angularly away from the axis of said plates; and means for moving said top plate relative to said bottom plate so as to vary the position of said aperture with respect to said drain port.

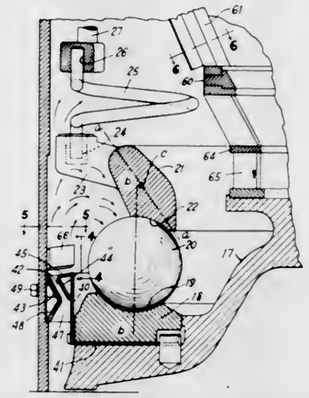
2,670,138
AIR SWEPT BALL AND RING PULVERIZER THROAT AND UPPER RING CONSTRUCTION

Walter C. King, Lancaster, S. C., and Lester L. Leach, Akron, Ohio, assignors to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey

Application November 1, 1949, Serial No. 124,754

18 Claims. (Cl. 241—58)

12. A pulverizer comprising a housing enclosing a rotary lower grinding ring, means for rotating said lower grinding ring, a circular row of grinding balls supported on said lower grinding ring, a non-rotary upper grinding ring supported on said grinding balls, means for delivering material to be pulverized mainly to the inner side of said row of grinding balls, means forming a peripheral ledge on and extending above the upper surface of said lower grinding ring, means for directing an annular stream of air upwardly past the outer side of said grinding rings and row of grinding balls to sweep up pulverized material discharging therefrom, said air flow directing means including an annular stationary throat plate constructed and arranged relative to said ledge-forming means to define therebetween an annular throat inclined upwardly and outwardly at an acute angle to and terminating at its upper end adjacent said housing and at the level of said ledge so as to deflect the air stream away from said row of grinding balls, and a circumferential series



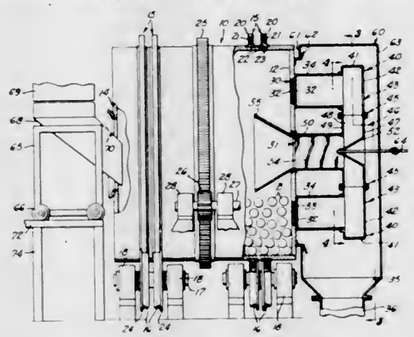
of stationary plow members mounted on said housing opposite said row of grinding balls and adjacent the upper end of said throat and projecting inwardly in the direction of lower ring rotation at an angle to said housing sufficient to deflect pulverized material into the upper part of said row of grinding balls.

2,670,139
SCREENING DISCHARGE DEVICE FOR ROD AND BALL MILLS

Michael Treshow, Pacific Palisades, Calif., assignor to Monolith Portland Cement Company, Los Angeles, Calif., a corporation of Nevada

Application May 29, 1950, Serial No. 165,046

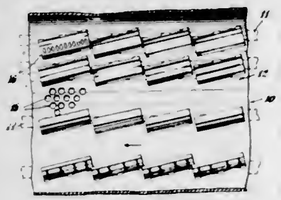
5 Claims. (Cl. 241—70)



1. In a discharge head structure for a grinding mill, the combination of: a head adapted for disposition in a vertical plane, said head having a central opening and a plurality of discharge openings disposed between said central opening and the periphery of said head; screen means disposed across the respective discharge openings; a plurality of cylindrical screening devices connected to said head and disposed on horizontal axes about the respective discharge openings to receive from said screen means and directed outward from said head and providing screen surfaces throughout their peripheries; a plurality of receiving pocket means disposed at and connected respectively with the outer ends of

said tubular cylindrical screening devices to receive oversize materials from such devices and having discharge means to dump such oversize materials during rotation; a tubular return device connected to said head about said central opening to receive dumped oversize materials from said pocket means and feed such oversize materials through said central opening back into the mill; and connecting means leading from portions of said pockets directed toward the axis of said head to said return device for supplying oversize material from said tubular screening devices to said return device, and thence through said central opening.

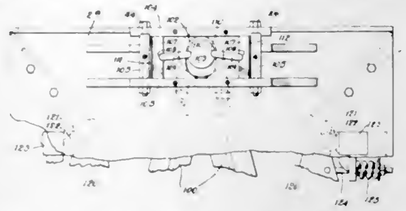
2,670,140
LIFTING SHELF
Harry J. Douglas, Philadelphia, Pa., assignor to Pennsylvania Crusher Company, Philadelphia, Pa., a corporation of New York
Application October 14, 1950, Serial No. 190,199
2 Claims. (Cl. 241—91)



1. A material reducing mill comprising a drum turning on a generally horizontal axis and having a peripheral perforated drum wall circular in cross section around said axis and carrying shelving formed by successive rows of separate shelves having inwardly directed shelf portions extending longitudinally along the inner surface of said wall in close sequence to each other and moving with the drum to lift material upward as the drum turns, the rows of shelves being circumferentially closely spaced to provide at least four rows simultaneously moving upward on the rising side of the drum and the shelves of each row being tilted with relation to each other so that the trailing edge of each shelf portion is below the leading edge of the following shelf portion a substantial distance on the lifting side of the drum as it turns on its axis providing an open vertical gap and so that lifted material slides off in a direction from the leading edge toward the trailing edge and in the direction of progress of the material through the drum and drops through the gaps between the shelves against the next lower row of shelves, each shelf portion being formed as a grid with a series of parallel elongated apertures each of which extends inward from adjacent the wall edge of said shelf portion to adjacent the inner edge thereof to form lateral fracturing edges positioned in side-by-side relation and extending from the wall edge to the said inner edge of the shelf portion and acting to engage and fracture material dropped from the preceding shelves on the upward moving side of the drum.

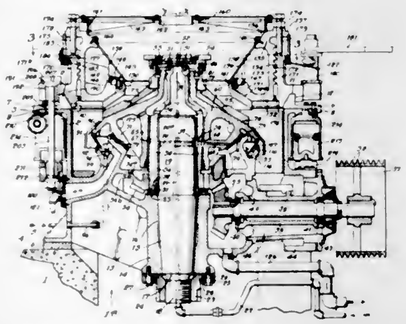
2,670,141
JAW CRUSHER
Einar H. Anderson, La Grange Park, Ill.
Application August 4, 1950, Serial No. 177,751
9 Claims. (Cl. 241—140)

1. In a double jaw crusher, a frame including parallel, upright side plates, two opposably facing, normally fixed jaws mounted on said frame and between said side plates, means for normally holding them in a predetermined position in relation to the frame, a pitman mounted between the jaws, the pitman having jaw plates opposed to each such fixed jaw and defining with the fixed jaws a pair of crushing cavities the ends of which are closed by the side plates, means for imparting bodily movement to the pitman including an eccentric mounted on the frame, means for rotating it about an axis lying in a horizontal plane extending through the pitman and the



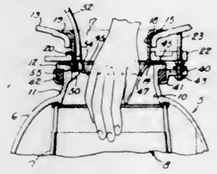
frame side plates, and including supporting connections for the upper end of the pitman extending outwardly of the crushing cavity, and outwardly beyond the side plates, opposed toggle elements movably mounted exteriorly of the frame side plates, and outside of and out of vertical alignment with the crushing cavities and engaging opposed sides of said supporting connections, exteriorly of said side plates, said crushing cavities being upwardly open, and the upper end of the pitman, between the side plates, being upwardly exposed at all positions of its movement.

2,670,142
ATTRITION MILL
Oscar C. Gruender, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Original application August 4, 1947, Serial No. 766,044. Divided and this application May 13, 1950, Serial No. 161,769
5 Claims. (Cl. 241—208)



1. In a crusher or attrition mill, a circumferential outer frame member, a hub therewithin, unitary generally radial structural elements connecting the hub and the circumferential outer frame member, said hub having a generally conic upwardly enlarging bore extending therethrough and open at top and bottom, the wall of said bore being unitary with the hub and being circumferentially unbroken, a normally fixed crusher shaft having an unsupported upper end and a lower portion tapered to conform to the internal tapered conic surface of the hub and having an upwardly extending generally cylindrical portion free at its upper end, the two portions of the shaft being generally of equal length, means for urging the shaft downwardly against and within the solid tapered conic surface of the hub in firm locking relationship, including a nut abutting the bottom of the hub and having a screw threaded aperture, the shaft having a downwardly extended screw threaded end portion adapted for screw threaded engagement with the nut, and means for securing the nut to the hub including a circumferential member secured to the hub, the nut having an upper, circumferential portion extending outwardly into a space between the hub and such holding member, the nut having an exposed downwardly extending portion below said holding member adapted to receive actuating means.

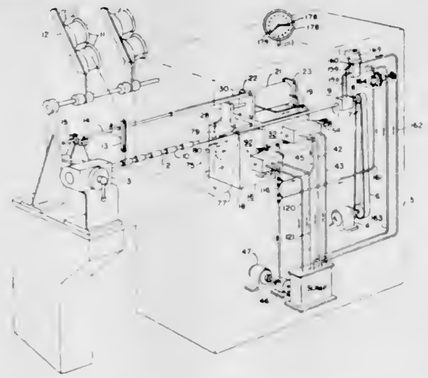
2,670,143
GARBAGE DISPOSER WITH PROTECTIVE INLET
Hans Jordan, Los Angeles, Calif., assignor to Given Machinery Company, Los Angeles, Calif., a copartnership
Application July 24, 1951, Serial No. 238,259
46 Claims. (Cl. 241—301)



8. A waste disposal device for use in connection with a sink having a drain opening, including: a sleeve disposed within the drain opening of the sink; connecting means for retaining said sleeve in the opening; stopper means removably disposed in said sleeve; a housing member providing a comminuting chamber and having an open end through which waste material and liquid can be inserted into said chamber; mounting means for mounting said housing member on said connecting means with its open end in axial alignment with said opening; yielding guard means fixedly held to said housing and through which the waste material and liquid can pass into said chamber, said guard means being operative to reduce splashing of the liquid outward from said housing member through said sleeve when said stopper means is removed from said sleeve; and a protector element pivotally mounted within the upper end of said housing member and adjacent said guard means, said protector element being normally disposed in a substantially horizontal position to provide an obstruction for preventing insertion of a human hand downwardly into said chamber, but adapted to pivot to a substantially vertical position so as to provide unobstructed access to said chamber.

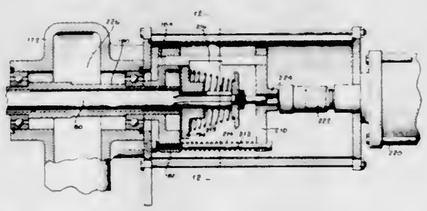
2,670,144
COIL WINDING APPARATUS AND POWER MECHANISM THEREFOR
Clarence Johnson, Orfordville, Wis., assignor, by mesne assignments, to Rockwell Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 11, 1947, Serial No. 753,874
21 Claims. (Cl. 242—9)

10. In a power mechanism for a coil winding machine having a spindle having spools mounted thereon, and guide members for guiding wire on said spools; means for reciprocating said guide members in a manner to guide the wire on said spools in smooth layers as the latter is rotated, said reciprocating means comprising a cylinder, a piston reciprocably received in said cylinder, means supporting said cylinder for longitudinal movement, means for supporting said piston in a fixed position, means for connecting said guide members to said cylinder for movement therewith, means including a valve mechanism for connecting the opposite ends of said cylinder alternatively to a liquid supply and to a sump, said valve mechanism including a valve element movable in opposite directions from a neutral position and controlling the flow of liquid in a manner to effect movement of said cylinder in the direction in which said valve element moves, means including a member rotatable in opposite directions for effecting reciprocation of said valve element, drive members adapted to be connected selectively in driving relation with said rotatable member, a power unit, and means including a clutch mechanism for connecting said power unit in driving relation with said spindle and said drive members.



20. A power system for effecting correlated movement of a rotatable element and a member movable in a linear path comprising means for rotating said rotatable element in one direction and then in the other, means for axially shifting said rotatable element at each change of direction of rotation thereof, a power unit for reciprocating said member, control means for said power unit, said control means being operatively associated with said rotatable element and movable both by rotation and axial shifting movement of said rotatable element.

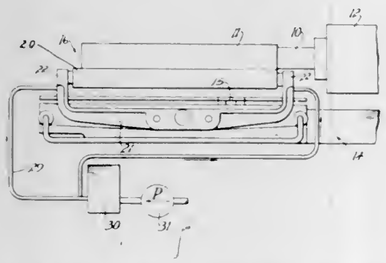
2,670,145
ARMATURE WINDING MACHINE
John M. Biddison, Dayton, Ohio, assignor to Harry W. Moore, Dayton, Ohio
Application November 23, 1951, Serial No. 257,711
20 Claims. (Cl. 242—13)



5. An interrupter mechanism for use in interrupting the operation of one flier of a coil wind-

ing machine having a pair of fliers driven from a common prime mover, said interrupter mechanism including a notched member driven by the prime mover, the notches in the notched member being unequally spaced peripherally, a second member supporting a plurality of notched pins seated in the notches of the notched member, means for supporting the notched pins, said means including a drive shaft for driving one of the fliers, means for causing a relative movement between the notched pins and the notched member, the notched pins when actuated so as to cause the notches therein to straddle the notched member disengaging the notches in the notched member to permit the notched member to rotate without rotating the notched pins and the shaft driven thereby, the pins being unequally spaced so that when the pins engage the notches in the notched member the shaft is always interconnected to the notched member in the same relative position.

2,670,146
WINDING MACHINE
Edward J. Heizer, Mountain Lakes, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application December 24, 1952, Serial No. 327,765
17 Claims. (Cl. 242—18)

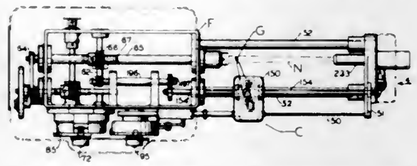


1. In a yarn package winding machine, the combination of a roller bail, means for rotatably supporting the ends of said bail, and a gas bearing associated with said supporting means and the ends of said bail.

9. In a yarn package winding machine, the combination of a roller bail; and gas bearings for said bail including a rotor element at each end of said bail having a passageway, and having radial openings and end openings in fluid flow communication with said passageway, and including a stator element for supporting said rotor element having a passageway for supplying a gaseous medium and having radial openings in communication with said supply passageway and in fluid flow communication with said radial openings of said rotor element.

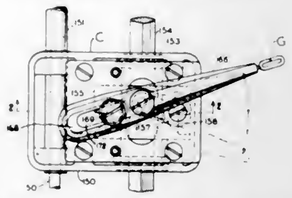
2,670,147
BOBBIN WINDING MACHINE
Glover C. Joyce, Worcester, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application December 8, 1951, Serial No. 260,719
8 Claims. (Cl. 242—27)

1. A bobbin winding machine comprising a winding spindle, means to rotate said spindle, a thread guide, a thread guide carriage, means to oscillate said guide in said carriage, means to shift said carriage progressively toward the tip of the bobbin being wound, additional automatic mechanical means to vary the rate of progressive shifting of said carriage as the winding proceeds, and automatic means to stop the wind-



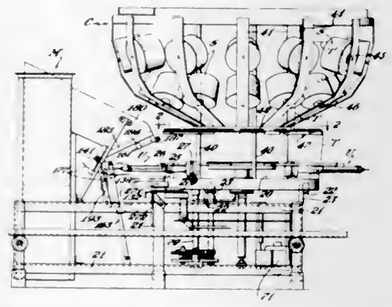
ing operation at the end of a predetermined extent of carriage shift.

2,670,148
QUICK-TRAVERSE MECHANISM FOR WINDING MACHINES
Glover C. Joyce, Worcester, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Original application December 8, 1951, Serial No. 260,719. Divided and this application August 30, 1952, Serial No. 307,327
3 Claims. (Cl. 242—31)



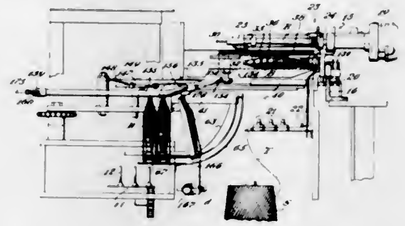
1. In a winding machine, a thread guide, a shiftable thread guide carriage, a thread guide lever mounted on said carriage, cam means to oscillate said thread guide lever in said carriage, means to vary the extent of the oscillation produced by said cam means, and additional cam means effective to maintain the starting point of every oscillation of said thread guide lever fixed and unchanged at one end of its traverse for all extents of oscillation.

2,670,149
WINDING MACHINE
Winthrop L. Perry, Milford, N. H., assignor to Abbott Machine Co., Inc., Wilton, N. H., a corporation of New Hampshire
Application October 3, 1952, Serial No. 312,999
15 Claims. (Cl. 242—35.5)



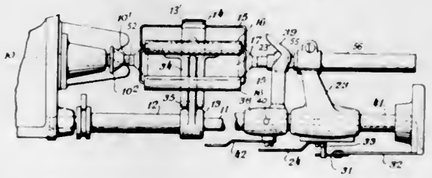
15. A multiple-unit winding machine including a plurality of winding units each including means for holding a winding bobbin, each winding unit being of the type having a traversing thread guide having a zone of traverse adapted to progress during the winding, mechanism for imparting an intermittent rotary movement to said winding units so as to cause each unit to dwell at successive points in its rotary course of travel, mechanism for discharging a bobbin from its holding means, mechanism for restoring a thread guide to a position adjacent to the position to be occupied by the base of a new winding bobbin, and mechanism for supplying such new bobbin to said holding means, said bobbin-discharging mechanism, said thread guide restoring mechanism and said bobbin-supplying mechanism operating upon successive winding units at one such point of dwell, and the machine being arranged for winding to continue on the units at a plurality of other such points of dwell.

2,670,150
BOBBIN HANDLING MECHANISM
Winthrop L. Perry, Milford, and Joseph E. Ring, Wilton, N. H., assignors to Abbott Machine Co., Inc., Wilton, N. H., a corporation of New Hampshire
Application June 18, 1951, Serial No. 232,218
33 Claims. (Cl. 242—35.6)



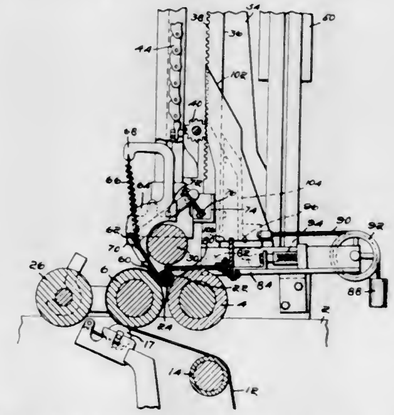
1. Bobbin-handling mechanism adapted to receive wound bobbins from textile machines, such bobbins each having a longitudinal passage, including mechanism for causing an air current to enter the longitudinal passage of a bobbin from the tip end of the bobbin, and mechanism acting automatically upon a thread for positioning said thread where said thread is subject to said air current entering the longitudinal passage of the bobbin, so that said thread is thereby drawn into said passage.

2,670,151
AUTOMATIC YARN WINDING MACHINE
John Robert Grady, Cheadle Hulme, and Harold L. Muschamp, Bramhall, England; said Grady assignor to said Muschamp
Application June 16, 1949, Serial No. 99,482
Claims priority, application Great Britain June 17, 1948
20 Claims. (Cl. 242—41)



2. A winding station for an automatic winding machine for producing a wound package by winding a filament on to a core while held between centres, comprising package-gripping means, pivotal mounting means therefor having an axis parallel to and adjacent to the said centres, means for moving the package gripping means into gripping engagement with a wound package held between said centres, said centres comprising a winding spindle and tail stock respectively, means for effecting relative movement of said winding spindle and said tail stock towards and away from one another to hold and release the cores respectively, means for moving the package-gripping means away from the centres after engagement by said package-gripping means to carry the wound package to a waiting position parallel to said winding position and so that the filament leading thereto is held in tension in a predetermined position for further manipulation and means for subsequently ejecting the wound package from the package-gripping means.

2,670,152
REWINDING MACHINE
Lester Priest, Brookfield, Mass., assignor to McLaurin-Jones Co., Brookfield, Mass., a corporation of Massachusetts
Application March 3, 1950, Serial No. 147,387
6 Claims. (Cl. 242—66)

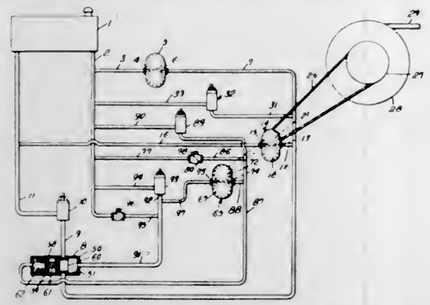


3. In a machine for winding a web into rolls, a rotatable mandrel, roller means including a pair of rollers for frictionally rotating said mandrel, a movably supported tucking element operable to tuck said web into the nip between said mandrel and one of said rollers, and tucking means including a pivotally mounted lever adapted to move said tucking element and stop means cooperating therewith to pivot said lever to move said tucking element into tucking engagement with said web.

2,670,153
CABLE REELING MECHANISM
Richard T. Hair, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 6, 1953, Serial No. 372,728
26 Claims. (Cl. 242—90)

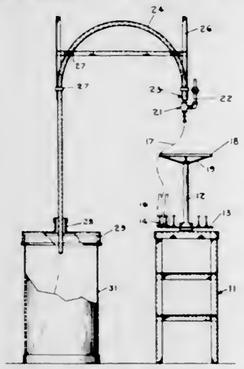
11. In a cable reeling mechanism adapted to supply power to a moving vehicle, a winding drum adapted to have a cable wound thereon, a fluid motor for driving said drum in a direction to wind cable thereon, a fluid pump, a pressure line connecting said pump to said motor and having relief means associated therewith for relieving pressure therefrom to preclude excessive tension on the cable during winding in, said motor being driven by said winding drum as a pump during

the unwinding operation and exerting a torque to maintain tension on said cable during unwinding, and means for relieving pressure from said motor when driven as a pump, but permitting said pump to maintain a back pressure on said motor sufficient to maintain tension on said cable during the unwinding operation and to initiate resumption of winding when cable tension is reduced by



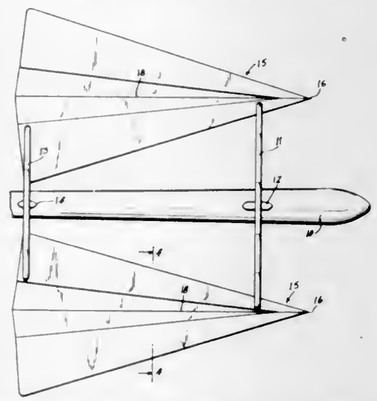
vehicle movement, including relief means for relieving pressure at a substantially lower value than is requisite to operate said first mentioned relief means, and means for preventing relief by said second mentioned relief means during cable winding including a device for blocking relief thereby and a control for said device comprising a reversible pump driven with the drum.

2,670,154
TEXTILE APPARATUS
Frederick F. Sutherland, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
Application September 9, 1948, Serial No. 48,523
1 Claim. (Cl. 242—128)



Apparatus for unwinding yarn from yarn packages, comprising a table, a vertical post mounted on said table for free rotation relative thereto, a plate mounted on said post for rotation therewith, a plurality of pins on said plate for supporting yarn packages thereon, a single fluid operated jet means positioned above said plate, said jet means including a body portion and a yarn inlet passageway having a curved entrance orifice opening into said body portion, a receptacle for receiving the unwound yarn, an arched conduit connected to said jet means and said receptacle, means for introducing fluid into said body portion of said jet means, means in said receptacle for exhausting the fluid, and a single circular yarn guide, having a unitary circular guide surface, fixed to and rotatable with said vertical post, said guide being positioned between yarn packages on said plate and said jet means to maintain each yarn in vertical alignment with the package from which it is being unwound, the construction and arrangement being such that the fluid passing through the body portion of the jet means will simultaneously unwind yarn from the yarn packages and draw the yarn into the jet means over the curved entrance orifice, through the passageway in the body portion of the jet means, through the arched conduit and into the receptacle.

2,670,155
SCOOTER AIRPLANE
Moody S. Sahl, Chicago, Ill.
Application December 13, 1950, Serial No. 200,565
5 Claims. (Cl. 244—13)



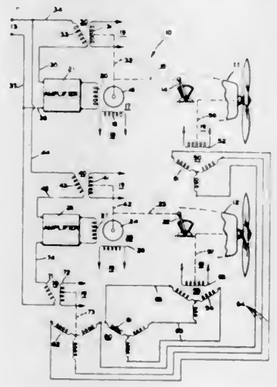
1. Wing construction for an aircraft having an elongated fuselage, which comprises a pair of booms extending transversely of the fuselage one a distance behind the other, the forward one being centrally secured at a slightly greater distance above the fuselage than the rearward one, a wing secured to either end of the booms, each wing increasing in width from a point at its leading edge to its trailing edge just rearward of the rearmost boom, and a V-shaped keel in each said wing, each keel tapering in width as it extends forward, the longitudinal axis of each wing and associated keel being disposed in the same vertical plane.

2,670,156
CATAPULT HOOK MECHANISM
John R. Clark, Dallas, Tex., John W. Coursen, Merrick, N. Y., and Carmine G. Jordan, New Haven, Conn., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application November 2, 1951, Serial No. 254,552
10 Claims. (Cl. 244—63)



1. In catapult hook mechanism for aircraft and the like, a fuselage having a base opening therein, a catapult hook adapted to engage a traveling power mechanism, support means attached to said fuselage adjacent said opening for supporting said hook pivotally with the hook adapted to move inside and outside the fuselage of said aircraft, a resilient device attached to said fuselage and the free end of said hook for holding said hook in inside position, a power transmitting device mounted on said fuselage and connected to said resilient device for moving said hook to outside position against the tension of said resilient device, a trip device mounted on said fuselage and connectable to said power transmitting device for holding said hook in outside position, and automatic trip mechanism mounted on said fuselage and adjustable for coaction with said trip device for actuating said trip device to retract said hook only after said aircraft has become airborne.

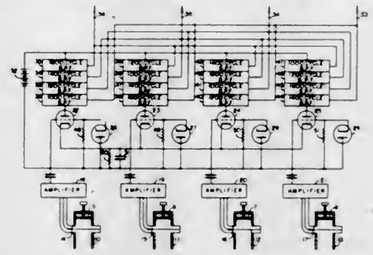
2,670,157
ENGINE CONTROL AND SYNCHRONIZATION SYSTEM
Joel D. Peterson, Ridgewood, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application April 18, 1947, Serial No. 742,438
9 Claims. (Cl. 244—77)



6. In a landing approach system for multi-engined aircraft, a throttle control for each engine of said aircraft comprising a source of signal voltage controlled by the glide path beam channel of said system, motive means for moving the throttle control of each of said engines, an inductively balanced circuit controlling each of said motive means, said circuits being connected in parallel to said signal voltage source, said circuits becoming unbalanced by changes in the signal voltages of said source to control said motive means to move the throttle controls of the engines, a signal generator driven by each engine, and inductive means responsive to the differences in generator signals to synchronize the speeds of said engines.

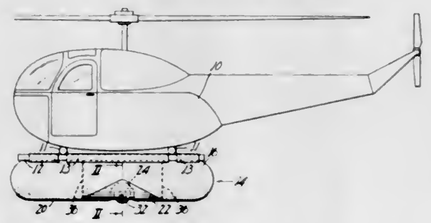
2,670,158
AXIS CONTROL FOR GUIDED MISSILES
La Verne R. Philpott, Washington, D. C.
Application June 18, 1947, Serial No. 755,272
6 Claims. (Cl. 244—77)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a radio control system having a modulated carrier wave, means for guiding a spinning missile in response to the modulation characteristic impressed on said carrier wave, comprising, a plurality of directive antennas spaced circumferentially about the periphery of said missile to provide adjacent response patterns, control means operative to impart an up, down, right, or left turning movement to said missile in accord with and responsive to the modulation characteristic of the received signal, a separate receiving channel connecting the output of each of said antennas to said control means, each of said channels being operative to control the action of said



control means in response to the modulation characteristic of said received signal, and means interconnecting said receiving channels operative responsive to the channel receiving the strongest incoming signal, to render the remaining channels temporarily inoperative.

2,670,159
AMPHIBIOUS HELICOPTER LANDING GEAR
Charles Barr, Buffalo, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.
Application January 28, 1950, Serial No. 141,039
1 Claim. (Cl. 244—101)



An amphibious landing gear for air craft comprising a hollow buoyant cell formed of flexible airtight waterproof sheet material, said cell being of greater length than diameter and having a lower portion arcuate transversely and provided midway its length and width with a portion extending upwardly into the cell and constituting a pocket having a top wall and opposite end walls and side walls and being open along its bottom its full length and width, a saddle formed of stiff sheet material of appreciably greater length and width than said pocket arcuate transversely to conform to the transversely arcuate under portion of said cell and tapered towards opposite ends, said saddle being firmly mounted in close contacting face to face engagement with the outer surfaces of the said under portion of the cell and midway its length and width having an opening registering with the open bottom of the pocket and projecting from the end walls and side walls of the pocket, a wheel-well of stiff sheet material fitting snugly within the pocket and being open along its bottom and having side and end walls the lower edge portions of which are flared outwardly and provide bordering flanges supported upon and secured to upper surfaces of portions of the saddle along the sides and ends of the opening therein, a skid strip mounted against the outer surface of said saddle and extending longitudinally thereof with portions projecting from the ends thereof and extending along the cell to the ends thereof, said skid strip having an

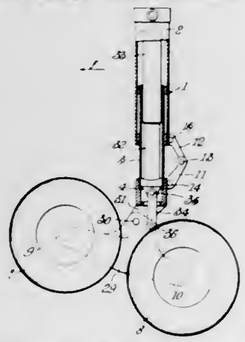
opening registering with the opening in said saddle, bearings in said well carried by side walls thereof, and a wheel rotatably mounted between said bearings and having its lower portion protruding downwardly through the registering openings in the saddle and the skid strip.

2,670,160

AIRCRAFT LANDING GEAR WITH MEANS FOR MINIMIZING WHEEL DRAG LOAD INCIDENT TO LANDING

Christopher Bernard Vere Neilson, Fearnhead, near Warrington, and Robert George Hoare, Warrington, England, assignors to Electro-Hydraulics Limited, Warrington, England, a company of Great Britain

Application April 17, 1950, Serial No. 156,246
Claims priority, application Great Britain July 14, 1949
5 Claims. (Cl. 244—104)



1. In aircraft landing gear construction, an undercarriage support; a bogie; two landing wheels journalled on said bogie for independent relative rotation and spaced fore-and-aft of each other so that one is leading and one is trailing with respect to the line of flight; means mounting said bogie on said support for tilting about an axis transverse to the line of flight; and yieldable means biassing said bogie to a position in which one of said wheels is lower than the other of said wheels when said support is at the normal landing approach angle to the ground, whereby said lower wheel will be rotated by contact with the ground before the other of said wheels contacts the ground said mounting means comprising a vertically movable piston element and a pivotal connection between said bogie and said element, said biassing means comprising a cushioning member mounted for vertical movement, a link, a pivotal connection between one end of said link and said cushioning member and a pivotal connection between the other end of said link and said bogie, said piston element and said cushioning member being constituted of reciprocable concentric pistons, one within the other.

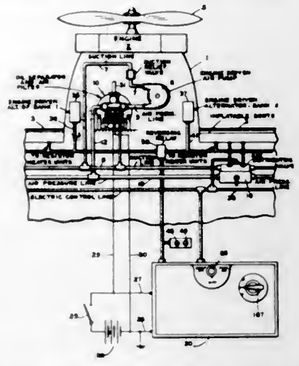
2,670,161

CONTROL MECHANISM AND APPARATUS FOR AN ICE ELIMINATING SYSTEM HAVING INFLATABLE MEMBERS AND HEATER ELEMENTS

Charles H. MacIntyre, Hasbrouck Heights, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application August 10, 1951, Serial No. 241,356
4 Claims. (Cl. 244—134)

1. For use with an ice eliminating system for aircraft of the class including a plurality of inflatable ice eliminating members, means for operating said inflatable members, electric heater elements embedded in said members for effecting the removal of ice from said members, a pair of electric generators, one of said generators operatively connected for supplying electric energy to one set of said heater elements and the other of said generators operatively connected for supplying electric energy to another set of said heater elements; means for controlling said inflatable members and heater elements, said control means comprising relay switch means for



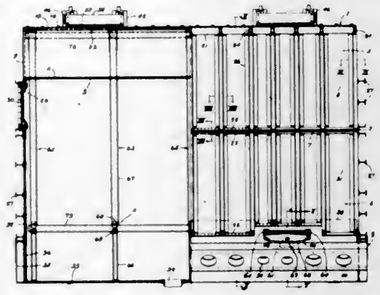
transferring the operative connections of at least one of said electric generators from one to the other of said sets of heater elements, a timer normally operative for providing a sequence of predetermined periods of operation of said inflatable members, said relay including a control winding for operating said switch means, and means for operatively connecting said timer to said control winding for operating said relay switch means so as to alternately effect full energization of each of said sets of electric heater elements by at least said one generator for periods of operation controlled by said timer.

2,670,162

SUPPORTING ENCLOSURE FOR JETTISONABLE FLEXIBLE FUEL CELLS

Leonard J. Proebstle, Massillon, Ohio, assignor to Goodyear Aircraft Corporation, Akron, Ohio, a corporation of Delaware

Application February 24, 1949, Serial No. 78,165
8 Claims. (Cl. 244—135)



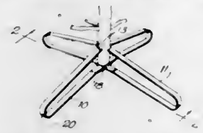
1. The combination of a liquid fuel carrier and the bomb bay of an aircraft and including a bomb rack mounted in the bomb bay, a flexible fuel cell, a substantially rigid form-holding supporting enclosure for the fuel cell inserted in said bomb bay, said enclosure consisting of a stationary main portion combined with a releasable portion supporting the fuel cell, suspension means connecting the top of said stationary enclosure portion with said bomb rack, means on said bomb rack being in abutting relation with said stationary enclosure portion to resist its shifting transversely and longitudinally of said aircraft, and quick release devices supported by said bomb rack attached to said releasable portion and being operable from a suitable point in the aircraft.

2,670,163

CHRISTMAS TREE STAND

Bronson W. Armitage, Portland, Oreg., assignor of one-half to Willis A. Forbes, Portland, Oreg.

Application October 31, 1950, Serial No. 193,261
1 Claim. (Cl. 248—47)



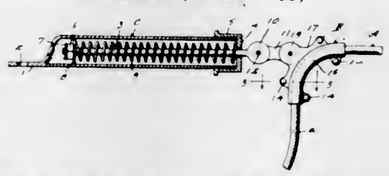
A Christmas tree stand comprising a pair of elongated spring straps of substantially equal length, pivot means connecting said straps together at their centers, each of said straps having its opposed sections beyond said pivot means curvedly bent at an intermediate point so as to provide an arm portion overlying the central portion in substantially parallel relation thereto, the distances from said pivot means to the bends of one of said straps being lesser than the corresponding distances of the other and the bends of said one strap being of lesser radius than those of the other whereby said straps may be nested one within the other and are freely movable from the nested position to a position at right angles to each other, the tips of each of said straps being pointed whereby to grip the trunk of a Christmas tree emplaced therebetween, said pivot means comprising a pointed member capable of being driven into the butt of the tree, one of said straps having an offset central portion of substantially the same width as the width of the other of said straps and into which said other strap may fit when said straps are at right angles to each other, and spring means compressed between a portion of said pointed member and said other strap, said other strap being slidably mounted on said pointed member whereby said spring means may force said other strap into said offset central portion yieldably to hold said straps at right angles to each other.

2,670,164

SHOCK ABSORBER

John O. Gill, Barnesboro, Pa.

Application November 29, 1949, Serial No. 130,008
1 Claim. (Cl. 248—63)



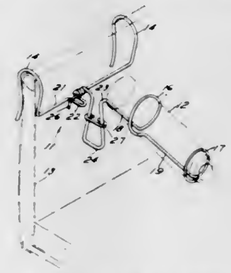
A shock absorber support for a cable, including a spring tensioned rod, a clamp formed of two substantially duplicate quarter-circular sections, each section being of semi-circular cross sectional form, apertured ears spaced along the concave side edge of each of said sections, an apertured flange formed along the convex side edge of each of said sections, said flanges and ears of the sections being in side by side relation, bolts engaged in the said apertures of said ears and flanges, each of said flanges being formed with an outwardly directed circular extension substantially midway between the ends of said sections and spaced parallel links pivotally connecting an end of said rod with the circular extensions of said flanges, said cable being clamped between said quarter circular sections and said rod being disposed in line with one run of the cable so that strain on the said one cable run is resisted by the rod tensioning spring.

2,670,165

BOTTLE HOLDER

Richard A. Dominguez, Richmond, Calif.

Application October 27, 1951, Serial No. 253,513
3 Claims. (Cl. 248—103)



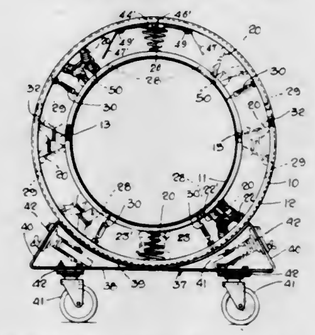
1. A device of the character described comprising a single wire-like member having a pair of spaced loop portions formed therein, one end of said wire terminating at one of said loops, the other end portion of said wire including a downwardly divergent U-shaped element, a clamp slidably engageable with said element and limiting outward relative movement of the legs thereof, and means operatively connected to said element for releasably attaching said device to a base structure.

2,670,166

YIELDABLE SHIPPING MOUNT FOR MISSILES AND THE LIKE

Raymond P. Applegate, Hicksville, N. Y., assignor of one-half to Charles P. Molla, New Hyde Park, N. Y.

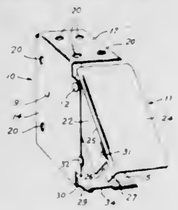
Application June 21, 1952, Serial No. 294,955
12 Claims. (Cl. 248—119)



1. A mount for apparatus of the character described, comprising two pairs of inner and outer rings, means coupling and spacing the in-

ner rings, means coupling and spacing the outer rings, conical springs spaced circumferentially between inner and outer rings of each pair to yieldably support the inner rings within said outer rings, pairs of longitudinal springs spaced circumferentially of said pairs of rings, one longitudinal spring in each pair extending from the outer to the inner ring, the other longitudinal spring in each pair extending from the outer ring of an opposed pair to the inner ring of the first named pair, and adjustable means coupling inner and outer rings of each pair to maintain the first named conical springs under predetermined load.

2,670,167
VENETIAN BLIND INSTALLATION BRACKET
Harry Nelson, New York, N. Y.. assignor to Lorentzen Hardware Mfg. Corp., New York, N. Y., a corporation of New York
Original application October 4, 1947, Serial No. 778,002. Divided and this application April 27, 1949, Serial No. 89,881
5 Claims. (Cl. 248—264)



3. A bracket for supporting a Venetian blind headbar, said bracket comprising: a plate having upper and lower marginal flanges projecting from the inner face thereof, and a retainer for retaining the headbar within the bracket, the retainer including a front flange adapted to overlie the front of a headbar when in closed position and a side flange swingably mounted at one end for movement along the inner face of the plate, the forward portion of the side flange being located substantially in the plane of the plate and the free end of the retainer side flange projecting rearwardly in the plane of the plate and engaging an inclined cam portion of the plate flange remote from the retainer mounting to force the retainer side flange tightly against the inside of the plate, a portion of the front corner of the plate being cut away to receive the projection on the free end of the retainer flange.

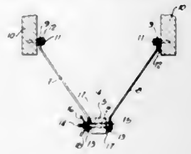
2,670,168
SLIDING HOOK
Lucien Magnan and Harry Switzman, Montreal, Quebec, Canada
Application September 19, 1949, Serial No. 116,424
2 Claims. (Cl. 248—295)

1. A sliding hook structure comprising a hollow pipe having an elongated slot therein; a hollow, exteriorly threaded nipple projecting from each end of said pipe; an offsetting U-shaped pulley block on each end of said pipe secured thereto by said respective nipples, said U-shaped blocks each having a perforation in the base thereof spaced from said nipple; a pulley in each block and of a diameter substantially corresponding to the spacing of said nipple and the perforation in said block so that the axis of the nipple and perforation are tangential to the pulley, a cable having its ends connected and encircling said pulleys, one length of said cable passing through said hollow pipe and nipples and the other and parallel length passing through the block perforations and extending exteriorly of said pipe, with the connected ends of said cable occurring in the external reach; a cylindrical



carrier slidable in said pipe and secured in longitudinally adjustable relation to said cable intermediate the connected ends thereof; and a hook-like member projecting from said carrier through the slot in said pipe.

2,670,169
BASEMENT CLOTHESLINE HANGER
Elbert J. Corpeny, Kansas City, Mo., assignor of one-half to Carroll J. Klein, Kansas City, Mo.
Application July 5, 1949, Serial No. 103,099
2 Claims. (Cl. 248—324)

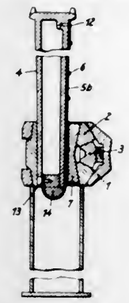


1. The combination with a pair of spaced joists of a bar, and means for mounting said bar midway between said joists for movement between a position below the bottoms of said joists to a position entirely above the bottoms of said joists, comprising hangers pivotally connected with said bar at spaced points and pivotally connected with said joists above the bottom edges thereof, each of said hangers comprising a pair of brackets having obliquely extending portions diverging from said bar toward said joists, each of said brackets having parallel end portions for attachment to said bar and a joist.

2,670,170
PIT PROP
Arnold Haarmann, Brambauer, Westphalia, Germany
Application March 22, 1950, Serial No. 151,240
6 Claims. (Cl. 248—354)

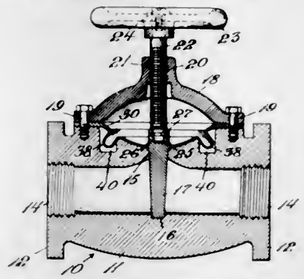
1. A mine prop comprising a lower section, an inner section guided in the lower section and having at least an exterior face on which are secured a plurality of small outwardly rounded ribs vertically spaced one above the other, the distance between the ribs being a multiple of the width of each rib and the ribs being of a material which is harder than the material of the inner section, a pressure jaw provided on the lower section where the inner section enters

the lower section and having a smooth outer face and which consists of a hard material which is softer than the rib material, the jaw being longer



than the width of the inner section, and a lock member provided around the jaw to which it is fastened.

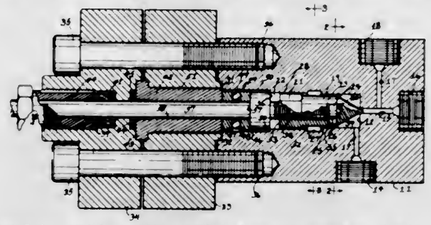
2,670,171
VALVE
Robert G. Holt, Johnston, R. I., assignor to MCA Sales Corporation, a corporation of Rhode Island
Application April 30, 1947, Serial No. 744,931
4 Claims. (Cl. 251—31)



1. In a valve, a body having a passage therethrough, a closure member movably mounted relative to said body to extend across said passage and block the same, a chamber secured to said body into which said closure member extends in opening said passage, said passage and chamber having substantially the same dimension in the direction of movement of said closure member, a diaphragm secured to said closure member and extending across said chamber laterally of said direction of movement and having a wavy portion to extend the flexibility of the diaphragm, said chamber having upper and lower arcuate portions to receive said diaphragm in the extremes of its position and means to move said closure member and diaphragm.

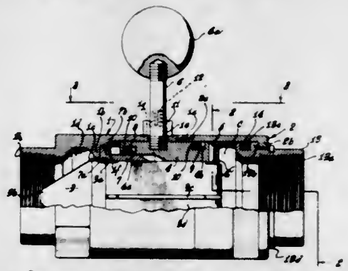
2,670,172
HIGH-PRESSURE VALVE
Thomas G. Moore, Takoma Park, and Robert E. Harvill, Hyattsville, Md., assignors to American Instrument Co., Inc., Silver Spring, Md.
Application April 5, 1948, Serial No. 18,994
10 Claims. (Cl. 251—48)

1. A high pressure valve comprising a main body formed with a longitudinal cavity, said body being formed with an inlet passage communicating with said cavity and an outlet passage axially aligned wtih and also communicating with said cavity, a plug member slidably positioned in said cavity and having a tapered tip engageable in the end of said outlet passage, a portion of the plug member being non-circular in cross-section and the cavity having a corresponding non-circular portion cooperating with the plug member to prevent rotation of said plug member, said plug member being formed with an internally threaded axial bore, a head member secured to said body, a compressible sleeve member carried by said head member in axial alignment with said cavity, the rear portion of the sleeve member being in sealing engagement with the head member and having the forward portion of its longitudinal peripheral surface ex-



posed to said cavity, said sleeve member being of substantial thickness at its forward end, a valve stem passing rotatively through said sleeve member and having a threaded end portion threadedly engaging the internal threads of said plug member, a collar carried on said stem, said cavity being formed with an abutment forwardly adjacent said collar and engaged thereby to limit forward movement of the stem into said cavity, and a thrust bearing assembly interposed directly between and engaging said collar and the forward end of said sleeve member to limit rearward movement of the stem.

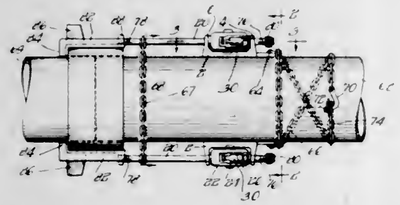
2,670,173
QUICK-ACTING SHUTOFF VALVE HAVING RENEWABLE VALVE SEAT
Theodore A. Stehlin, Upland, Calif., assignor to St-West, Inc., Carson City, Nev., a corporation of Nevada
Application July 6, 1948, Serial No. 37,172
6 Claims. (Cl. 251—131)



1. In a valve of the class described, a cylindrical housing having an inlet and an outlet and having therein a bevelled annular valve seat diverging towards the inlet end, said housing having an internally threaded portion downstream of said valve seat, a valve seat member comprising a tubular portion and a radial flange at one end screwable into said threaded portion, the member having a second bevelled valve seat positioned downstream of and of slightly smaller diameter than the first valve seat, a valve member having a conical valve portion located upstream of said valve seat member and adapted normally to engage the valve seat of the valve seat member and adapted to engage the first valve seat when the valve seat member is re-

moved by unscrewing, said valve member having a stem extending coaxial with the valve portion and extending therefrom in a downstream direction, an operating sleeve coaxial with and reciprocally mounted within the housing and surrounding the valve member stem and operatively connected to said stem, means extending through the housing for operating the sleeve and the valve member longitudinally within the housing, a first sealing means on the exterior of the sleeve and engaging the interior of the housing for sealing the sleeve with respect to the housing and a second sealing means on the interior of the sleeve and engaging the periphery of the tubular portion of the valve seat member for sealing between the sleeve and the seat member.

2,670,174
PUSHING OR PULLING JACK
Millard B. Lucker, St. Joseph, Mich., assignor to Auto Specialties Manufacturing Company, St. Joseph, Mich., a corporation of Michigan
Application June 9, 1949, Serial No. 97,967
11 Claims. (Cl. 254—29)



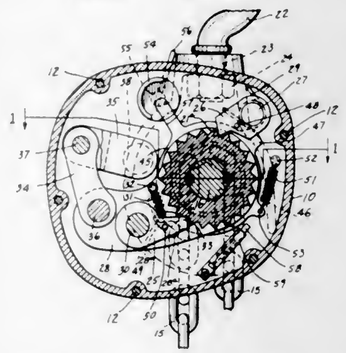
9. In a pushing and pulling device, a reversible base having opposed outstanding lugs provided with registering perforations, a housing mounted on said base between said lugs and having end openings registering with the openings of said lugs, a shaft passing through the registering openings of said base and through said housing, a friction clamp in said housing adapted to engage the shaft and shift it in one direction only, an operating member on the housing for tilting the clamp into gripping engagement with the shaft, spring means in the housing for returning the clamp to normal and tilted position, the opposite ends of said shaft having identical threads, a stop member threadedly engaging one set of threads on one end of the shaft and a pushing and pulling member engaging the threads on the opposite end of said shaft whereby said stop and pushing and pulling members may be interchangeably threaded on the opposite ends of said shaft.

2,670,175
REAR MOUNTED CRANE
Wilbur A. Schaich, Goodrich, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application October 22, 1951, Serial No. 252,549
1 Claim. (Cl. 254—124)



For use with a tractor having a pair of laterally spaced, power-lifted trailing hitch elements, each of said hitch elements having a channel-shaped rear end portion with vertically spaced plate elements, a material handling device comprising a transverse tubular frame element, a rearwardly projecting boom rigidly secured to the medial portions of said frame element, the ends of said frame element being respectively insertable between said plate elements of said hitch elements, a removable pin traversing each pair of plate elements of said channel-shaped portions, each said end of said frame element having a plurality of relatively angularly disposed holes therein for selectively receiving said pin, thereby selectively varying the angular relationship of said boom relative to the tractor.

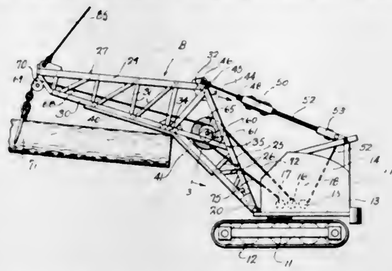
2,670,176
HOIST
Fredrick W. Coffing, Danville, Ill., assignor to Coffing Hoist Company, Danville, Ill., a corporation
Application October 27, 1951, Serial No. 253,531
7 Claims. (Cl. 254—167)



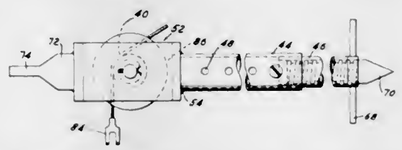
1. A lever operated chain hoist including in combination a chain sheave, a rotatable ratchet wheel controlling the rotation of said sheave, means for restraining said wheel from rotating in one direction, a load pawl carrying arm oscillatable about an axis coincident with the axis of said ratchet wheel, a load pawl pivotally mounted on said arm and engageable with the teeth of said ratchet wheel, a pivotally mounted operating lever arm, a link connecting the free end of said operating lever arm with the free end of said load pawl carrying arm, and means for oscillating said operating lever arm.

2,670,177
LOG LOADING BOOM
Herschell Ray Pearson, Everett, Wash.
Application April 7, 1951, Serial No. 219,775
4 Claims. (Cl. 254—184)

1. A power multiplying mechanism comprising three cable winding drums, one of said drums being of relatively large diameter and the other two being of relatively small diameter, means interconnecting the three drums to cause them to rotate in unison and each to change its direction of rotation with change in direction of either of the others, a load lifting cable wound on one of the drums of relatively small diameter and adapted to be paid out therefrom for connection with a load and to be wound thereonto to draw in the load, two selectively operable power driven drums, a cable wound on the drum of relatively large diameter and extended therefrom to the first of the said power driven drums for winding thereonto, this to effect the driving of the said three drums and the winding in of the load lifting cable onto its drum, and another cable wound on the other drum of relatively small diameter and extended to the second of the said two power driven drums and adapted to be wound thereonto thus to cause driving of the said three cable winding drums in a direction reverse to that effected by the winding in of the cable on the first of said power driven drums.



2,670,178
JACK LEG PULLEY
Allan De Wolf, Ferndale, Mich., assignor, by direct and mesne assignments, to Walter C. Clevenger, Royal Oak, Mich.
Application July 1, 1950, Serial No. 171,623
1 Claim. (Cl. 254—190)



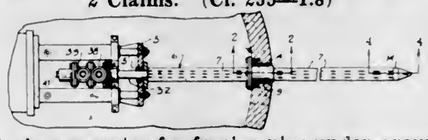
A jack leg pulley comprising an extensible member, means for extending said extensible member to increase the effective length thereof, said extensible member having an elongate open frame fixed to one end thereof, a pulley wheel mounted in said open frame to rotate on an axis intersecting and perpendicular to the axis of said extensible member, the axis of said extensible member lying in the plane of said pulley wheel, said frame and pulley wheel providing an opening therebetween through which a cable engaging said pulley wheel may be extended, said frame having a foot member fixedly mounted thereon at the end thereof opposite the connection between said frame and said extensible member, said foot member extending generally axially of said extensible member and terminating at its free end in a blade having a straight edge which is perpendicular to the axis of said extensible member and generally parallel to the axis of rotation of said pulley wheel, a second foot member mounted at the other end of said extensible member, a threaded screw operatively associated with said last mentioned foot member, and a nut threaded on said screw and operatively associated with said extensible member so that when the nut is turned said last mentioned foot member is moved longitudinally of said extensible member, said last mentioned foot member terminating at its free end in a blade portion having a substantially straight edge which extends generally perpendicular to the axis of said extensible member.

2,670,179
PUNCH CORE ORIENTING DEVICE
Manley L. Natland, Rolling Hills, and Raymond E. Pearson, Compton, Calif., assignors to Richfield Oil Corporation, Los Angeles, Calif., a corporation of Delaware
Application February 13, 1950, Serial No. 143,958
4 Claims. (Cl. 255—1.4)



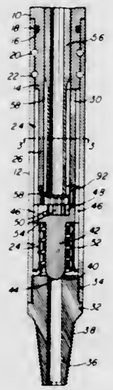
1. In a device insertable and retractable through a drill string for taking a punch core from a well bore and for indicating orientation of the core, the combination of a retrievable core barrel assembly adapted to be lowered from the surface through the drill string; means for latching the core barrel assembly relative to the drill string at a location near its lower end; means carried on the retrievable core barrel assembly for providing a record of the inclination of the core barrel assembly in latched position, said means comprising a ray-emitting ball adapted to roll upon a sensitized sheet fixed relative to said assembly; a core-receiving member on the core barrel assembly adapted to take a punch core upon lowering of the drill string; means in predetermined fixed circumferential relation to said sensitized sheet for marking said core and means for unlatching and withdrawing the core barrel assembly and core upwardly through the drill string.

2,670,180
METHOD AND APPARATUS FOR ADVANCING SUBTERRANEAN PIPE
Leo Ranney, Morro Bay, Calif., assignor to Ground Water Inc., a corporation of New York
Application May 27, 1949, Serial No. 95,653
2 Claims. (Cl. 255—1.8)



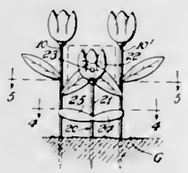
1. An apparatus for forcing pipe under-ground, comprising a pipe, a hollow digging head at one end of said pipe, a plurality of ports spaced around the axis of said head and pipe, selective opening and closing means for said ports, means operable from the other end of said pipe for actuating said selective opening means to open selectively one only of said ports, means for forcing said pipe into the earth, and means for withdrawing fluid from the formation through an open port and through said pipe.

2,670,181
REVERSING TOOL
Walter L. Church, Houston, Tex.
Application October 10, 1952, Serial No. 314,133
6 Claims. (Cl. 255—35)



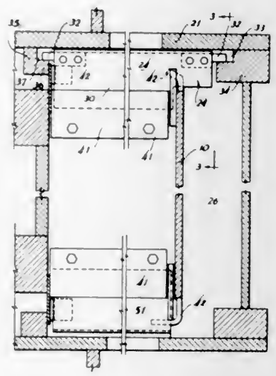
1. A reversing tool comprising, a tubular mandrel, means connecting the mandrel in fluid flow communication with an operating string for rotation with the string, an upper tubular member rotatably connected to the mandrel, a lower tubular member carried by the mandrel in communication therewith and rotatable relative to the upper member, casing-engaging means on the upper member, means operable by the pressure of fluid in said mandrel for actuating said casing-engaging means into engagement with a surrounding well casing to anchor said upper member against rotation in the casing, internal gear teeth in said lower member, external gear teeth on said mandrel, gear means carried by said upper member in intermeshing engagement with said gear teeth to cause said mandrel to rotate said lower member in a direction opposite to the direction of rotation of the mandrel when said casing-engaging means is actuated, and means intermeshingly engageable with said gear teeth to cause said mandrel to rotate said lower member in the direction of rotation of the mandrel when said casing-engaging means is released.

2,670,182
ORNAMENTAL KNOCKDOWN FENCE UNIT
William Oberwerger, Brooklyn, N. Y., assignor to Floral Fence, Inc., Newark, N. J., a corporation of New Jersey
Application August 9, 1951, Serial No. 241,072
1 Claim. (Cl. 256—1)



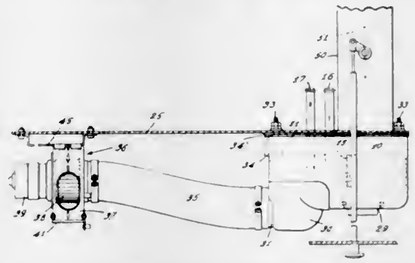
In an ornamental fence construction, a plurality of spaced vertical units, each comprising an elongated stem having an ornamental head on its upper end, the lower end adapted to be inserted in the ground, plate-like members extending laterally from the intermediate portion of each stem in opposite directions, the plate-like member on one side of one stem being disposed in overlapping relation with respect to the adjacent plate-like member on the next adjacent stem, means for securing the overlapping portions of the plate-like members together, a complementary unit positioned between a pair of the first mentioned units and comprising a vertical stem having its lower end adapted to be inserted in the ground, an ornamental head on the upper end of the stem of the complementary unit, said last mentioned stem having an exposed height extending approximately to the plate of the overlapping plate-like members and having its head secured thereto, and a pair of bars secured at their inner ends to the stem of the complementary unit and extending laterally therefrom in opposite directions, the outer ends of said bars being secured to the respective stems of the first mentioned pair of units.

2,670,183
FLOATING RADIAL SEAL FOR REGENERATIVE HEAT EXCHANGERS
William E. Hammond, Wellsville, John A. Lidford, Friendship, and Clayton A. Ballard, Belmont, N. Y., assignors to The Air Preheater Corporation, New York, N. Y.
Application October 12, 1950, Serial No. 189,759
2 Claims. (Cl. 257—6)



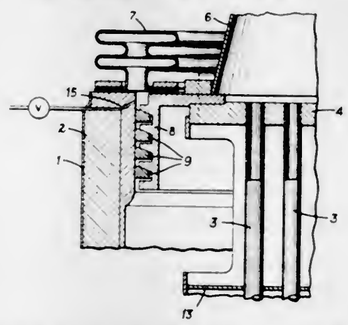
1. In a regenerative air preheater or the like having a rotor made up of a cylindrical shell joined to a rotor post by radial partitions forming compartments that carry heat transfer material, and a housing surrounding the rotor and provided opposite the latter with end plates formed with circumferentially spaced apertures for the flow of heating gases and air to and through the regenerative material caried by the rotor; radial sealing members cooperating with the imperforate portions of said end plates comprising; sealing leaves separate from said radial partition freely mounted on the upper edges of said radial partitions and projecting axially of the rotor into the space between the rotor and said end plates with their radially extending edges held just out of contact with said end plates; means forming a circumferential track on one of said end plates guiding said sealing leaves axially of the rotor with respect to said partitions; and means mounted on said partitions and engaging with said sealing leaves for causing said sealing leaves to partake of the rotor movement.

2,670,184
AUTOMOBILE-BODY HEATER
Edmund Ludlow, Columbus, Ind., assignor to Arvin Industries, Inc., Columbus, Ind., a corporation of Indiana
Application April 16, 1951, Serial No. 221,195
3 Claims. (Cl. 257—137)



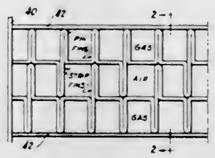
1. An automobile-body heater of the circulating fluid type, comprising a housing having front, top, bottom, and side walls, said housing being open at its rear and adapted to be mounted in the passenger compartment of an automobile with its open rear against the automobile dash and overlying an air-admitting opening through the dash, a heat-exchanging core dividing the interior of the housing into front and rear compartments and provided with air-passages, a partition mounted in the housing to extend between the core and dash and divide the rear compartment into first and second chambers both of which communicate with the front compartment through the air passages of the core, said partition being so arranged that only said first chamber will communicate with said air-admitting opening, said housing having first and second openings providing for communication of the passenger compartment respectively with the front housing compartment and with the second chamber, and an adjustable closure for said first opening.

2,670.185
HEAT EXCHANGE APPARATUS PROVIDED WITH THERMAL COMPENSATING DEVICE
Christian Schörner and Max Rothemünd, Augsburg, Germany, assignors to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany, a corporation of Germany
Application June 13, 1950, Serial No. 167,898
Claims priority, application Germany
October 1, 1949
9 Claims. (Cl. 257—224)



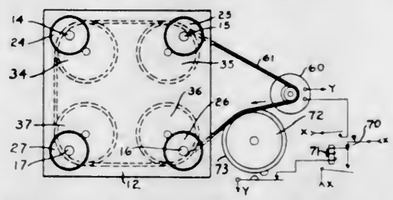
1. A heat-exchanging device adapted for containing fluid under high pressure and having parts of different coefficient of expansion subject to widely varying temperatures and in which the differing expansions are compensated for while maintaining said high pressure within said device comprising in combination a sliding joint between said differently expanding parts exposed to said high pressure fluid, packing and throttling means in said joint for obstructing the passage of said fluid through said joint for reducing the escape of said fluid leaking through said joint, an expansible bellows forming a low pressure expansion chamber connected with said joint and separated from said high pressure fluid by said packing and throttling means for retaining fluid leaking through said joint, and exhaust means connecting said chamber to the outside atmosphere for bleeding off fluid leaking through said joint into said chamber to maintain no more than said low pressure in said chamber.

2,670,186
HEAT EXCHANGER CORE CONSTITUTED BY FOLDED PLATES
Ernest A. Lundstrom, Valley Stream, N. Y., assignor to The Air Preheater Corporation, New York, N. Y.
Application May 22, 1951, Serial No. 227,580
5 Claims. (Cl. 257—245)



1. In a heat exchanger core having the walls that separate passages for the flow of fluids between which heat is exchanged constituted by plate members each formed with a plurality of folds in one direction normal to the plane of the plate and each contiguous with a fold in the opposite direction to constitute double folds with another fold in said one direction intervening between and folded in the same direction as said first folds to provide single folds extending in said one direction lying intermediate double folds that extend in both directions from the plane of a plate, pairs of said plates being superimposed in relatively reversed relation so that each single fold in one plate that extends in a single direction alines with a pair of folds that extends in both directions from the other plate, and vice versa.

2,670,187
CONTAINER FILLING
Levi F. Goodrich, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application September 12, 1950, Serial No. 184,475
10 Claims. (Cl. 259—3)



1. The method which comprises first separately capturing measured quantities of different fluent powdered materials from separate supply bodies

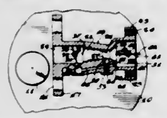
thereof, and continuously combining and blending such captured materials in predetermined varying proportions while guiding them into a stationary cavity.

2,670,188
MIXING AND KNEADING MACHINE
Rüdolf Erdmenger, Bergisch-Gladbach, Germany, assignor to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany, a corporation of Germany
Application September 20, 1950, Serial No. 185,881
Claims priority, application Switzerland September 23, 1949
5 Claims. (Cl. 259—104)



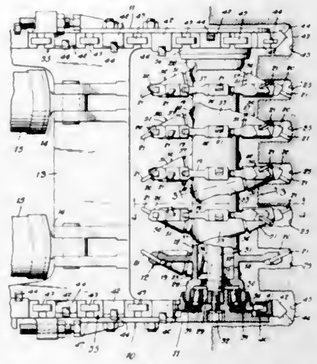
1. A mixing and kneading machine comprising a casing, at least two rotatable shafts positioned in said casing for rotation in the same direction, at least two cam disks eccentrically positioned, one on each said shaft for near circumferential contact with each other at any position of rotation of said shaft, said shafts and cam disks being dimensioned and positioned so that the circumferential portion of any cam disk farthest from the center of its shaft will upon rotation of said shafts pass in near surface contact with at least a portion of the immediate adjacent inner surface of said casing, and means for rotating said shafts in the same direction.

2,670,189
CHARGE FORMING DEVICE
Bernard C. Phillips, Toledo, Ohio, assignor to The Tillotson Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application December 17, 1949, Serial No. 133,590
5 Claims. (Cl. 261—41)



1. A charge forming device of the floatless type for internal combustion engines comprising in combination, a body; a horizontally disposed mixing passage in said body including a restricted zone; a chamber formed in said body at one side of the mixing passage to receive the fuel from a fuel supply; a horizontally positioned fuel discharge orifice in the wall of the restricted zone; said orifice being in communication with said fuel receiving chamber for delivering fuel into the restricted zone of the mixing passage; a second fuel discharge orifice in communication with said mixing passage; means including a horizontally disposed channel connecting said mentioned second fuel discharge orifice with said fuel receiving chamber; said fuel discharge orifices being arranged in the same horizontal plane, said channel including a fuel metering restriction, and manually operated single means for regulating the admission of fuel to said fuel receiving chamber.

2,670,190
DRUM MOUNTED CUTTER BIT AND BREAKER FOR MINING MACHINES
Frank Cartlidge, Chicago, Ill., asssignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 19, 1951, Serial No. 206,797
5 Claims. (Cl. 262—9)

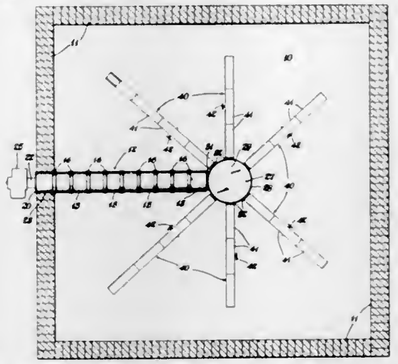


5. In a cutter head for a mining machine, a rotary drum having a plurality of radially extending cutter discs spaced laterally therealong, each of said discs having a plurality of cutter bits fixed on its periphery and extending at different angles therefrom to cut a kerf substantially wider than the body of said disc, said cutter disc bodies also having breaker roller apertures therein, and conical breaker rollers each having a stub shaft journalled on said drum with their axes offset from the axis of said drum and disposed at an acute angle to an adjacent cutter disc, the major portion of said conical roller projecting into a roller receiving aperture in said disc, with the enlarged base portion of said roller projecting substantially beyond one side of the kerf cutting limits of the cutter bits of its cutter disc, and with the remainder of said conical roller including its tapered outer end disposed within the kerf cutting limits of said bits, so that rolling engagement of said roller against the adjacent wall of the kerf cut by its disc will normally be confined to one side of said conical roller adjacent its base.

2,670,191
OIL BURNING TOBACCO CURING FURNACE AND HEAT DISTRIBUTOR
Jacob Richmond Furth, Orrville, Ohio, assignor to The Will-Burt Company, Orrville, Ohio, a corporation of Ohio
Application January 6, 1950, Serial No. 137,114
1 Claim. (Cl. 263—19)

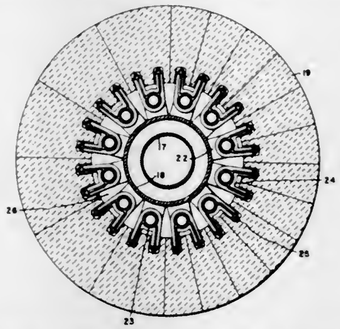
A tobacco curing furnace and heat distributor for a tobacco barn, comprising an elongated horizontal imperforate tubular furnace adapted to be mounted upon the floor of the barn with its outer end located through a wall of the barn and its inner end located substantially at the center of the floor, said tubular furnace comprising a tubular steel casing and tubular refractory liners located end to end within said casing, a gun type pressure burner unit with fan located outside of the barn, the burner nozzle extending into the outer end of the furnace, an end plate closing the outer end of the furnace around the nozzle whereby the burner nozzle provides the only air intake for the furnace and heat distributor, a distributor comprising a relatively large diameter hollow drum located upon a vertical axis and

communicating with the inner end of the tubular furnace for receiving all of the hot gases from the furnace, and a plurality of horizontal radially disposed relatively small diameter pipes communicating with the drum and receiving all of the hot



gases therefrom and terminating in open outer ends located entirely within the barn, the length, construction and arrangement of the tubular furnace and burner unit being such that all visible volatiles of the fuel are consumed in the furnace.

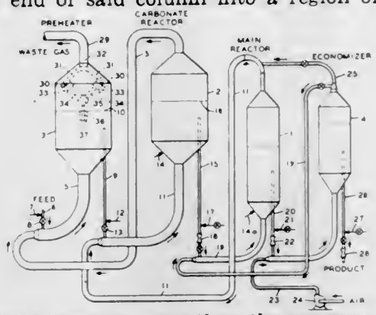
2,670,192
INSULATING ENCASEMENT
George P. Reintjes, Kansas City, Mo.
Application September 4, 1951, Serial No. 245,031
1 Claim. (Cl. 263—44)



A cooling housing comprising a double-walled beam, a series of pipe concentrically arranged around and connected at one end to the space between the inner and outer walls and externally paralleling and spaced from the outer wall, means to circulate cooling medium through the pipes and space between the double walls, hangers carried by the pipe, and tile extending in an entire circle around and carried by said hangers and spaced from the pipe and beam to provide an air lane between the outer face of the beam and the inner end of the tile.

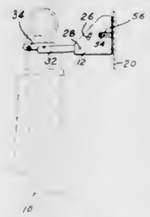
2,670,193
CONTROLLING FLOW OF FLUIDIZED SOLIDS
Robert Pyzel, New York, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application May 9, 1949, Serial No. 92,140
4 Claims. (Cl. 263—52)

1. A method for controlling the flow of powdered solids which includes: downwardly flowing a stream of said solids to form a vertically extended standpipe column; introducing an aerating vapor upwardly through said column of downflowing solids to maintain said column in a turbulent pseudo-liquid state; passing said downflowing stream of solids through a constantly open zone of fixed reduced cross-section at the lower end of said column into a region of sub-



stantially lower pressure than the pressure at the lower end of said column; and making all variations in the flow of said solids for substantial periods solely by increasing or reducing the rate of introduction of said aerating vapor to increase or reduce the pressure head across said zone while maintaining said restricted zone at the same reduced cross-section.

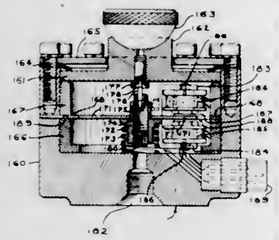
2,670,194
INDICATING SUPPORT FOR FIRE EXTINGUISHERS
Malte Hansson, Baldwin Park, Calif.
Application June 23, 1952, Serial No. 295,100
1 Claim. (Cl. 265—63)



An indicating support for fire extinguishers comprising a box-like body portion having a bottom, a back, two sides and a sloping front, means at the back for fastening the support to a wall, a rocking element pivotally mounted inside the body portion, the pivot means being forwardly of the body, bifurcated projections on the rocking element extending forwardly of the body and outside the same for supporting an extinguisher, indicating plates forming part of the inner end of the rocking element and adjacent the rear end of the body, said means including a helical spring mounted between the indicating plates, said plates having indicia inscribed thereon, a cover for the body, sealing means for the cover, adjusting means for the tension of the spring, said adjusting means including a screw-threaded bolt mounted in the rocking element, a washer mounted at the top of the spring, said washer having an opening therein for the reception of the bolt, a screw-threaded sleeve at the rear of the body portion for receiving the threaded end of the bolt, said sleeve mounted centrally of the spring, the sides of the body having openings therein for viewing the indicia, whereby said indicia continually and automatically indicate the full or empty condition of the fire extinguisher supported on the rocking element and

the adjusting means providing for changes in the spring tension to accommodate various types of extinguisher.

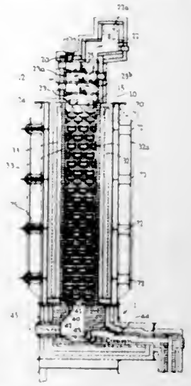
2,670,195
ELECTRIC SCALE
James N. Baker, Baltimore County, Md., assignor to The Black and Decker Manufacturing Company, a corporation of Maryland
Application January 10, 1945, Serial No. 572,179
3 Claims. (Cl. 265—70)



1. A readily portable device for weighing relatively heavy loads, a hollow container having an upwardly directed rigid peripheral load sustaining portion, and a base inflexible in all directions, a flexing elastic load sustaining metal plate resting upon and flexing about the inner supporting edge of said portion, a flexing center member rigidly supported beneath said load sustaining plate, solid electrical impedance elements associated with both sides of the center member, the member and elements being between the plate and base, the flexing of the center member varying a current that may be passed through the elements, a load centering means on the top of said plate located substantially centrally on the plate positioned to receive the load to be weighed and means transferring load imparted flexing of said plate located substantially centrally of the means permanently connecting the plate and centering means to the container without restraint upon the flexing of the plate.

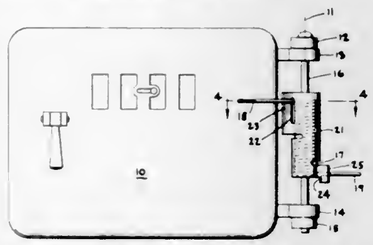
2,670,196
HIGH TEMPERATURE VAPORIZATION APPARATUS
Frank G. Breyer, Wilton, Conn., and Andre Delruelle, Trooz, Belgium; Marthe C. H. V. Delruelle, lawful heir of said Andre Delruelle, deceased, assignors to Singmaster & Breyer, a copartnership
Application March 17, 1950, Serial No. 150,118
2 Claims. (Cl. 266—25)

1. A high temperature vaporization apparatus comprising pairs of spaced parallel refractory walls forming a closed columnar chamber, the walls of one pair extending across the space between and overlapping longitudinal edges of the other walls, and supporting means for said walls including means yieldably compressing those of said one pair against the others so as to keep the sides of the chamber sealed yet readily expansible and contractible, said other walls being each formed of a multiplicity of polygonal transverse refractory blocks stacked together horizontally and vertically between the walls of said one pair, and refractory basin elements extending between said other walls in parallel and spaced and overlapping relation and forming shallow basins at their upper faces, the opposite blocks being integral supporting ends of the refractory basin elements, the vertical and longitudinal dimensions of the stacked blocks



determining the spacing between the refractory basin elements.

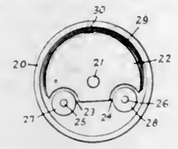
2,670,197
HINGE ASSEMBLY FOR FURNACE DOORS
Glenn B. Morse, Grand Rapids, Mich.
Application October 19, 1949, Serial No. 122,300
2 Claims. (Cl. 267—1)



1. In combination with a helical spring having tangentially projecting ends, a lock for establishing relatively angular relationship of the ends of said spring comprising: first and second engaging means adapted to cooperate respectively with the ends of said spring, said engaging means each including a stop disposed to bear against the respective end of said spring, and also including an opposite aligning member, said aligniug member being disposed to cooperate with the side of said spring in abutting relationship at points thereon where a radius to the axis of said spring is substantially parallel to the direction of the force applied to said stop by the end of said spring, and torque-transfer means fixing the relative position of said first and second engaging means so as to maintain an angular relationship of the ends of the said springs substantially less than 180 degrees against a biasing action of said spring tending to increase said angular relationship.

2,670,198
ZERO AND TWO DIRECTIONAL FORCE MECHANISM
Leo B. Glaser, Cranford, N. J., and Frank A. Votta, Jr., Ambler, Pa., assignors, by mesne assignments, to Eastern Metals Research Co., Inc., New York, N. Y., a corporation of New York
Application November 27, 1951, Serial No. 258,454
14 Claims. (Cl. 267—1)

1. A two directional spring mechanism comprising a pair of relatively movable opposed members, oppositely coiling spring elements interposed between said members and maintained in at least partially uncoiled condition by engagement between said members, each of said spring elements being fixed at one end to one of said



members and corresponding receiving means on the opposed member to receive said coils for coiling movement, said receiving means being positioned to receive one spring element and be disengaged from the other spring element when said one spring element is fully coiled.

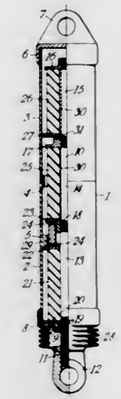
2,670,199
SPACING DEVICE FOR FRICTIONALLY OPPOSED BODIES
Fred R. Smith and John E. Connolly, Detroit, Mich., assignors to Neveroil Products Company, Hamburg, Mich., a corporation of Michigan
Application December 13, 1950, Serial No. 200,678
10 Claims. (Cl. 267—49)



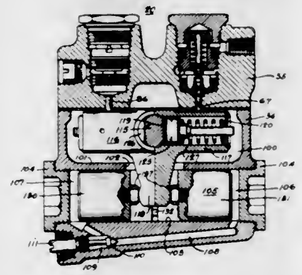
1. In combination, two relatively movable, frictionally opposed members, one of which has a depression therein facing the other, a pad-like, impregnated textile fabric spacing device between said members provided with a flat body portion with opposed, flat operating sides and an integral, preformed boss portion on one of said sides bottomed in said depression for anchoring said device with relation to one of said members, and means to reinforce said boss portion and to serve as a load-sharing and wear member within the confines of said device comprising a flat solid insert of nylon plastic extending into said boss portion having only one flat surface exposed, said surface being substantially flush with the surface of the body portion lying on the plane of said exposed surface, the other flat surface of the insert being bottomed in said boss portion, said body portion being impregnated with a relatively hard lubricating substance adapted to be worked to the exposed surface of the load-bearing member by relative motion between the opposed members.

2,670,200
RESILIENT SUSPENSION SPRINGS
Robert Maxwell Seddon, Walmley, Sutton Coldfield, England, assignor to Dunlop Rubber Company Limited, London County, England, a British company
Application April 1, 1952, Serial No. 279,859
Claims priority, application Great Britain April 14, 1951
5 Claims. (Cl. 267—63)

1. A resilient suspension spring comprising a housing adapted to be connected to one of a pair of elements subject to relative displacement, a shaft to be connected to the other element extending into the housing through one end thereof and movable longitudinally relative to the housing, a stop on the shaft, a floating washer engaging with the inner faces of the stop and of the adjacent end of the housing, a first plate floating on the shaft, a resilient member carried by the shaft and located between said first plate and the washer, an abutment on the inside of the housing engaging the side of the first plate remote from the resilient member, an abutment on the shaft spaced apart from the first plate on the side remote from the resilient member, a second floating plate engaging with the shaft abutment on the side remote from the first plate and engageable with the housing abutment on outward movement of the shaft, a spacer separating the first and second floating plates, a flange movable with the shaft, and a second resilient member located between the second floating plate and the flange.

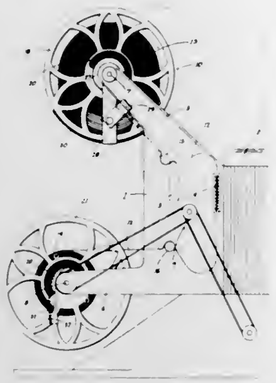


2,670,201
CONTROL MECHANISM
Edwin F. Rossman, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 29, 1948, Serial No. 5,169
9 Claims. (Cl. 267—65)



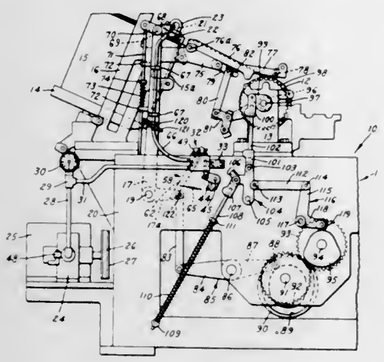
1. A mechanism for controlling the action of two normally inactive control devices, said mechanism consisting of an oscillatable lever tiltable in one direction to engage and render the said one control device active and in the other direction to render said other device operative; an oscillatable shaft carrying said lever so as to be tiltable thereon; a predeterminately yieldable torque connection between said shaft and lever normally effecting movement of the lever with the shaft; and a movement dampening device attached to said lever and effective to cause the torque connection to yield at predetermined oscillating speeds and amplitudes of the shaft.

2,670,202
REEL FOR MOTION-PICTURE FILM
Ward M. Gregg, Lodi, Calif.
Application November 24, 1950, Serial No. 197,342
6 Claims. (Cl. 271—2.17)



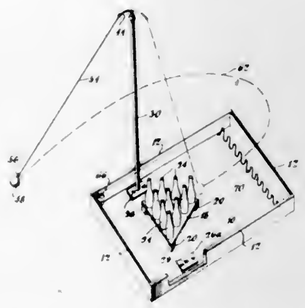
1. In a motion picture projector having a body provided with a reel-supporting arm, and a spindle projecting laterally from the arm; a reel for a coil of film comprising a hub for engagement on the spindle, spaced end plates radiating from the hub, one end plate having an aperture therein adjacent the hub, the film being adapted to feed from the inside of a coil on the reel through said aperture, an element projecting from the reel for engagement with said arm to prevent rotation of the reel, and means mounting said element for detachment from the reel to permit of rotary use of reel in a film winding position on the projector.

2,670,203
SHEET FEEDER FOR PRINTING PRESSES
John F. Banthin, Bridgeport, Conn.
Application May 25, 1948, Serial No. 29,012
10 Claims. (Cl. 271—26)



1. In a printing press including a fixed frame, an impression cylinder carried by said frame, feeder means movable on said frame to transfer a sheet from a pile to said cylinder and to return to said pile, suckers carried by said feeder means, a system for applying suction to said suckers, a valve in said system fixedly mounted on said frame and openable to break the vacuum therein short of said suckers, said valve including a movable valve opening and closing part, means carried by said feeder means engageable with said movable valve part for opening said valve when said feeder means reaches a position to have said suckers deposit a sheet on said cylinder, movable means mounted on said frame to secure said movable valve part in open position, and means carried by said feeder means to shift said securing means to release said movable valve part for closing on predetermined return movement of said feeder means.

2,670,204
BOWLING GAME
James H. Powell, Watertown, Mass.
Application December 14, 1950, Serial No. 200,707
1 Claim. (Cl. 273—40)

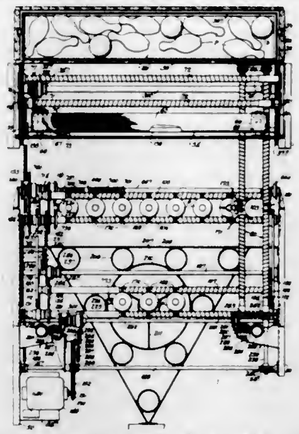


In a bowling game, a table, a triangular ten pin support elevated above the table, a pair of sockets disposed one at each side of the pin support and spaced therefrom and close thereto and approximately in line with the rear row of pins, an upright post insertable in either one of the sockets at will, the post having a short laterally extended arm having a swivel connection with the upper part of the post capable of turning freely completely around the post, a ball connected to the free end of said arm by a flexible cord so that the ball hangs when at rest in close proximity to the base of said post, said table having a circumscribing upstanding rim that encloses the pin support and the base of the post, the rim being spaced away from the pin support to provide lodgment for the pins knocked off the pin support, the post being the sole projection above said rim other than the pins thereby permitting the unobstructed swinging of the ball and the arm around the post.

2,670,205
PIN SETTING MACHINE FOR BOWLING ALLEYS
Kenneth C. Sherman, New London, Conn., assignor to Electric Boat Company, Groton, Conn., a corporation of New Jersey
Application May 7, 1947, Serial No. 746,596
16 Claims. (Cl. 273—43)

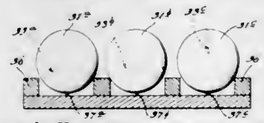
1. In a pin setting machine for bowling alleys, a pair of spaced parallel pin distributor rolls and means thereon for distributing pins therealong in predetermined spaced relation, said rolls normally being disposed substantially horizontally for reception of pins delivered thereto from above and being mounted to swing about a substantially horizontal axis for dumping the pins therefrom, means for delivering pins to said rolls,

a table comprising pin receiving members disposed for reception of pins dumped from said



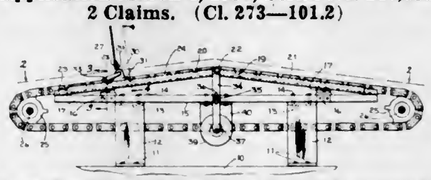
rolls, and means for swinging said rolls from pin receiving position to pin dumping position.

2,670,206
ROLLING-BALL RACING GAME
Oswald C. Brewster, Litchfield, Conn.
Application July 13, 1949, Serial No. 104,420
2 Claims. (Cl. 273—86)



2. A rolling-ball racing game comprising two or more inclined tracks and identical light hollow balls, of the nature of a table tennis ball, for the several tracks, each ball having a free mass of viscous liquid friction material occupying substantially less than the volume of the ball, and a transverse vane fixed within the ball and operative to engage the said mass variously and so vary the frictional action of the fluid during a revolution of the ball; and each track having two side rails and a center rail, the side rails being so spaced that a ball resting on the center rail can touch but one side rail at a time while slightly clearing the other side rail, whereby as the fluid mass shifts weight laterally the ball moves from one side rail to the other.

2,670,207
TARGET MOVING AND CONTROL MECHANISM
Eldon L. Dale, Long Beach, Calif.
Application March 4, 1950, Serial No. 147,655
2 Claims. (Cl. 273—101.2)



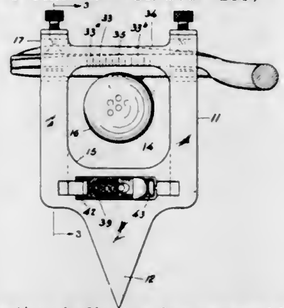
1. A device of the class described comprising a mounting plate, a channel-shaped guide carried by the plate and having a raised medial point spaced above the plate and end portions extending downwardly from said medial point into contact with the opposite ends of said plate to simulate a hill; sprocket wheels at opposite ends of the plate, a circular chain having driving engagement with said wheels and having an upper run traveling through said channel-shaped guide, a target pivotally carried by said chain for movement over said hill, a retainer bar hingedly connected to said plate adjacent one side of and extending parallel with respect to said guide, said target providing a depending lug engageable with one side of said retainer bar to maintain said target in a vertical position as said target moves over said hill, and means for pivoting said retainer bar out of engagement with said lug to permit said target to pivot by gravity from its vertical position to a substantially horizontal position to simulate a hit scored thereon.

2,670,208
LIGHT TRANSMITTING CHECKER PIECE
George F. Wales, Kenmore, N. Y.
Application April 11, 1950, Serial No. 155,149
2 Claims. (Cl. 273—137)



1. A game piece for use with game apparatus wherein moves of said game piece are indicated by the emission of light through windows in said apparatus which identify positions which the game piece may occupy or to which it may be moved, said game piece being movable over said apparatus and to register selectively with one of said windows and having an opaque body and a light-transmitting, transparent core positioned therein and extending therethrough, said core having the emission end thereof formed to provide light-reflecting facets.

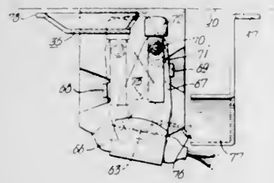
2,670,209
GOLF CLUB DIRECTION INDICATOR ATTACHMENT
Allyn C. Fay, East Hempstead, N. Y.
Application March 31, 1951, Serial No. 218,611
6 Claims. (Cl. 273—163)



1. A direction indicator for removable attachment to the head of a golf club, of the conventional type, for aligning said club head in the direction of movement of a ball, the club head remaining unaltered, comprising a top plate mounted above the club head, said top plate having an aperture formed therein, in substantial alignment with the ball-striking section of one face of the club, to enable a player to observe the ball through said aperture, a pointer formed integral with one end of said top plate in axial alignment with said aperture, said top plate having a pair of substantially parallel support members formed integral therewith, a spirit level mounted between said support mem-

bers, a housing supporting said spirit level, and means adjustably attaching said housing to the support members, said spirit level indicating the normal ground level, relative to the club head, in its normal striking position, a pair of flanges formed integral with the sides of said top plate, adjacent one face of the club head, a pair of rear flanges formed integral with the end of said top plate, near the opposite club face, and means threadably attached to each of said rear flanges removably clamping the club head between said flanges.

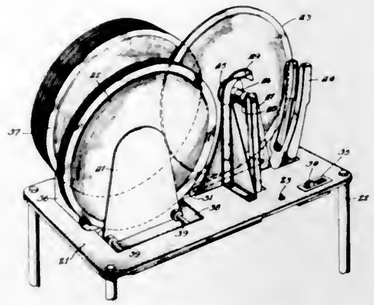
2,670,210
PHONOGRAPH APPARATUS
Elmer O. Thompson, Grasmere, N. Y., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Original application April 18, 1945, Serial No. 589,019. Divided and this application March 6, 1950, Serial No. 147,963
5 Claims. (Cl. 274—9)



1. In a phonograph having a motor driven turntable and an associated tone arm, a switch support pivoted for movement about a horizontal axis, a pair of stops for said support establishing two positions thereof, a motor-controlling mercury switch carried by said support so as to be closed when the support is in one of said positions and opened when the support is in the other of said positions, said support being in the switch-closed position during the playing of a record, an actuating element pivotally mounted on said support at a point spaced from said axis, said element being pivoted above its center of mass so as to be biased by gravity to a normal position, said element having a friction surface at one end, and a member connected to said tone arm and movable thereby in a path to deflect said element to an inclined position and to exert force thereon by engagement with said friction surface upon oscillatory movement of the tone arm at the end of the playing of a record, whereby to move said support to the switch-opened position.

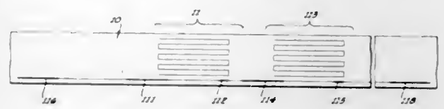
2,670,211
RECORD CHANGER
Frank Freimann, Carl Hart, and Arthur L. Knox, Sr., Fort Wayne, Ind., assignors to The Magnavox Company, Fort Wayne, Ind., a corporation of Delaware
Application January 8, 1947, Serial No. 720,784
9 Claims. (Cl. 274—10)

1. In an automatic phonograph, a rotatable record support for supporting a phonograph record for reproduction on both sides, a dual pick-up arm pivotally mounted for playing engagement with either side of said record, a sequence operation mechanism formed in a plurality of cam portions interconnected by a selectively operable clutch and operatively associated with said supporting means and said pick-up arm for selectively pivoting said pick-up arm to play one or both sides of said record, means for selectively predetermining the playing of one side or both



sides of a phonograph record, and means responsive to said latter means for operating said clutch.

2,670,212
SOUND RECORDING AND REPRODUCTION SYSTEM
Herman S. Heller, West Los Angeles, and Willard E. Stofer, North Hollywood, Calif.; said Stofer assignor to said Heller
Application February 23, 1946, Serial No. 649,594
3 Claims. (Cl. 274—46)



1. A flat record tape having recorded thereon a plurality of multiple lane recordings confined within separate longitudinally spaced record blocks, each of said recordings consisting of a plurality of record lanes extending longitudinally of the tape and distributed transversely thereacross, and block limit signals recorded on said tape at the end limits of said blocks.

2. The method of making recordings on a long record tape, that includes: making a first multiple lane block recording consisting of an odd number of successive recordings in reverse directions on a plurality of parallel transversely spaced longitudinally extending lanes of the tape between a pair of block defining end limits spaced from one another longitudinally of the tape, then progressing along the tape from the end of the last recorded lane past the corresponding end limit and making a second multiple lane block recording consisting of an even number of successive recordings in reverse directions on a plurality of parallel transversely spaced longitudinally extending lanes of the tape between another pair of block defining end limits so located that the block defined by said last mentioned pair of end limits is spaced along the tape from said first mentioned block, then progressing along the tape from the end of the last recorded lane past the corresponding end limit of the second recorded block and also past the near end limit of the first recorded block and while continuing to so progress along the tape, effecting a final recording along the length of another transversely spaced lane of the first recorded block, whereby the complete recording operation terminates on the tape laterally opposite the beginning point of the first recorded lane of the first record block.

2,670,213
BRUSH ATTACHMENT FOR PHONOGRAPH PICKUP ARMS
William H. Zimmerman, San Bernardino, Calif.
Application July 6, 1948, Serial No. 37,110
4 Claims. (Cl. 274—47)



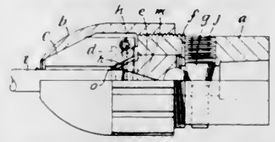
1. A brush attachment for a phonograph pick-up arm having lower edges comprising a clip having spaced arms, one end of each arm being connected by a curved portion, the spaced arms engageable with opposite sides of the phonograph arm, a channel-shaped hook formed along one edge of each of said spaced arms at the free ends thereof and engageable with the lower edge of the pickup arm; a spring connected between said spaced arms opposite the hook thereon for forcing the arms into engagement with the opposite sides of the pickup arm a brush holding arm having one end thereof secured to and extending from the curved portion of the clip and capable of adjustment toward and away from the longitudinal axis of the phonograph pick-up arm; and a record cleaning brush mounted in the outboard end of the brush holding arm, the adjustment of the brush holding arm determining the pressure applied by the brush to the record.

2,670,214
CHUCK
Robert Fishwick, London, England, assignor to C. V. A. Jigs Moulds & Tools Limited, Hove, Sussex, England, a British company
Application January 24, 1951, Serial No. 207,472
2 Claims. (Cl. 279—36)



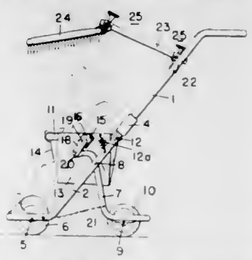
1. In a bevel closing chuck having a body, chuck jaws adapted to be urged to closed position by means of a cap and having external tapered surfaces, a cap supported upon one end of said body adjustable longitudinally thereof and having an internal tapered surface adapted to cooperatively engage the tapered surfaces of said jaws, a plunger in said body supporting said jaws for movement longitudinally of said body, a tapered spindle extending across said body for movement transversely thereof and spaced rearwardly from said plunger, there being a recess in said plunger, a ball rotatably seated in said recess in engagement with the tapered surface of the spindle and adapted to transmit to said plunger the longitudinal component of the thrust exerted on the ball by said tapered surface upon movement of the spindle in one direction transversely of the body, whereby when the jaws are held in gripping engagement with an object by said cap, transverse movement of the spindle in said one direction urges the jaws more firmly into engagement with the cap to more securely grip said object.

2,670,215
CHUCK
Robert Fishwick, London, England, assignor to C. V. A. Jigs Moulds & Tools Limited, Hove, Sussex, England, a British company
Original application January 24, 1951, Serial No. 207,472. Divided and this application January 24, 1951, Serial No. 207,473
3 Claims. (Cl. 279—38)



1. In a bevel closing chuck, a body with a longitudinal bore, a plunger member having radial slots in its front face slidable within said bore, chuck jaws slidably supported in angularly spaced apart relation at their rear ends in said radial slots, said jaws having cut-away portions in their gripping surfaces extending rearwardly from a point intermediate the length thereof to provide a fulcrum about which each jaw can pivot, and spring means engaging said jaws rearwardly of said fulcrums to urge the rear ends of said jaws inwardly of said radial slots whereby the forward ends of said jaws will be angularly out-turned to facilitate insertion of a tool therebetween.

2,670,216
FOLDABLE BABY STROLLER
Lloyd H. Leonard, New Hyde Park, N. Y.
Application April 1, 1948, Serial No. 18,431
8 Claims. (Cl. 280—41)



1. A hand propelled vehicle comprising a main frame, a pair of front wheels carried by said main frame, an auxiliary frame pivotally connected with said main frame, a rigid seat frame pivotally mounted at one end on said main frame, link means connecting said auxiliary frame with a point on said rigid seat frame remote from its pivot, whereby movement of said auxiliary frame on its pivot serves to swing said seat frame on its said pivot relative to said main frame, said link means comprising a pair of toggle links united by a rule joint, and rear wheel means carried by said auxiliary frame.

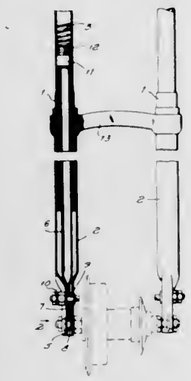
2,670,217
TWO-LEVEL LOAD-PLATFORM TRANSPORTING VEHICLE
Francis E. Hruza, Peetz, Colo.
Application December 4, 1951, Serial No. 259,826
2 Claims. (Cl. 280—43)

1. A carrier comprising a reversible frame having an obverse material supporting surface and a reverse material supporting surface, means supporting said frame during movements of

translation and serving as supporting fulcrums for the frame when the frame is being reversed to bring its obverse and reverse surfaces selectively uppermost and to low and high elevations with respect to the ground, said means comprising a pair of crank axles each having a shank fixedly carried by the frame and a bearing portion, a ground engaging wheel rotatably mounted upon the bearing portion of each axle the shank of each axle being eccentric to its bearing portion, the upper face of at least the low elevation supporting surface being unobstructed throughout substantially the entire length of the frame and disposed in substantially one plane and said wheels being disposed adjacent one end portion of the frame so that there is provided an unobstructed free board throughout substantially the entire length of the frame to permit side loading of the material to be transported upon said low elevation supporting surface.

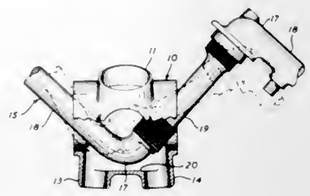


2,670,218
TELESCOPIC TUBULAR CYCLE FORK WITH FLATTENED LOWER ENDS
Siegfried Rokahr, Stuttgart, Germany, assignor to Alfred Kreidler, Stuttgart-O, Germany
Application July 30, 1952, Serial No. 301,694
Claims priority, application Germany August 17, 1951
1 Claim. (Cl. 280—276)



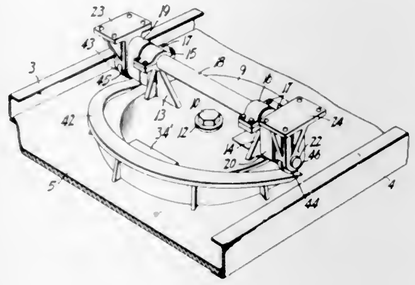
In a telescopic fork, for mounting a wheel axle resiliently relative to a vehicle frame, especially for use as the front fork of a light motor cycle; a pair of lower sliding tubes pressed at the lower ends into a generally U-shaped cross-section to provide support for the wheel axle, a pair of upper tubes slidable on said lower tubes, springing means within each of said upper tubes, and an internal supporting member constituting a connection between each lower tube and each said springing means, each said member having a flattened lower end portion which is clamped within the pressed lower end of the corresponding lower sliding tube.

2,670,219
CRANKCASE OF BICYCLE FRAME
Leonard Shakesby and Frederick L. Sainsbury, Weston, Ontario, Canada, assignors to Canada Cycle and Motor Company Limited, Weston, Ontario, Canada
Application June 26, 1951, Serial No. 233,530
2 Claims. (Cl. 280—281)



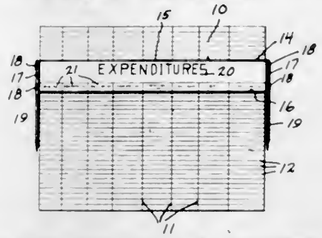
1. In a bicycle, a tubular crank case, a one-piece crank having two crank arms with their longitudinal axes in parallel spaced relation and united at their inner ends by a connecting shaft portion, said arms extending in opposite directions from their points of union with said connecting shaft portion, said points of union hereinafter being called elbows, an external blister formed in the wall of said crank case at one portion thereof, the wall of said crank case being too confining to permit the elbow of said crank to pass therethrough save only at said portion where said blister is formed therein, said blister being elongated, the longitudinal axis of said blister being substantially parallel with the longitudinal axis of said tubular crank case, and having dimensions to accommodate one of said elbows of said crank as it passes through said crank case, said blister having a width not substantially greater than the thickness of the crank.

2,670,220
TRACTOR TRAILER CONNECTION DEVICE
Jesse Colpo, Orchard Park, N. Y.
Application October 10, 1951, Serial No. 250,656
16 Claims. (Cl. 280—438)



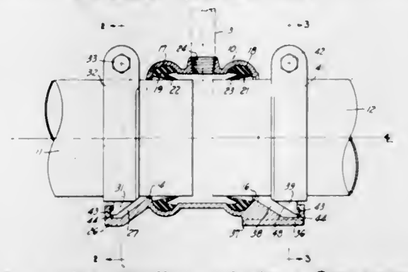
1. A connection device for coupling a trailer to a tractor comprising, first support means mounted on said tractor for movement about a substantially upright axis, second support means adapted to be secured to said trailer, means connecting said second support means to said first support means for movement relative thereto in an upward and rearward direction, and elevator means carried by said tractor for engaging and so moving said second support means upon relative turning movements between said tractor and said trailer.

2,670,221
RECORD SUMMARY AND DIARY DEVICE
William F. Wellendorf, Ida Grove, Iowa
Application January 28, 1952, Serial No. 268,557
1 Claim. (Cl. 281—1)



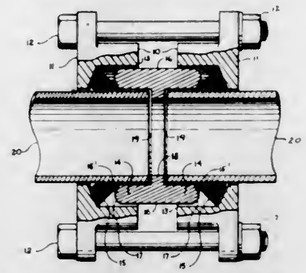
A device for columnar pads comprising a laterally extending plate adapted to rest upon said columnar pad and including terminology thereon for items to be entered on said columnar pad, guide means attached at the sides of said plate for maintaining said plate in correct position on said columnar pad, including spaced pairs of pencil clips attached thereto, said pencil clips being adapted to secure pencils therein, said plate including terminology on either side thereof for providing expenditure records and income records, said plate having upper and lower straight edges to provide means for marking lines on said columnar pad at desired intervals, said pencil clips including leaves extending above and below the plane of said plate for thereby providing said guide means.

2,670,222
PIPE COUPLING
Peter F. Dragon, Oakland, Calif.
Application December 12, 1949, Serial No. 132,501
3 Claims. (Cl. 285—175)



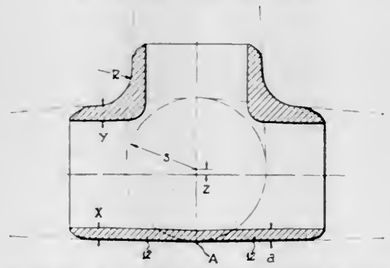
1. In a pipe coupling, a body, a flow passage through said body, an opening in one end of said body adapted to receive one end of an irrigation pipe, said opening having a substantially larger diameter than the outer diameter of the pipe connected thereto, an annular recess in said body adjacent said opening adapted to accommodate a gasket, a gasket in said recess adapted to engage one end of said pipe, a ground engaging base formed on said body adjacent said opening and extending longitudinally of the body, said base being formed to provide an arcuate open-ended slot having a center coincident with the center of the adjacent pipe, a clamp ring adapted to be secured to said adjacent end of the pipe, a lug on said clamp ring which by turning of the pipe is adapted to be positioned in said slot to lock the pipe against longitudinal movement, a recess formed in said base, said recess being in communication with said slot and facing said opening in said body, a lip formed on said lug and adapted to engage said recess to lock the pipe against rotational movement.

2,670,223
PIPE COUPLING
Fred H. Ream, Montgomery County, Ohio
Application August 25, 1950, Serial No. 181,489
1 Claim. (Cl. 285—193)



In a pipe coupling device having as principal elements, a pair of pipe sections, a center aligning element, opposite end forcing elements provided with movable means and a plurality of pipe encircling rings, each of said rings being substantially frusto-conical in shape, graduated in external peripheral diameter, substantially uniform in internal peripheral diameter, and telescoped one within the other, the external peripheral edges of said telescoped frusto-conical rings defining a substantially continuous conical surface, the inner peripheral edges of said rings defining a stepped substantially cylindrical surface engaging said pipe sections in biting engagement, said pipe sections being embraced by said center aligning element and said end forcing elements, the conical surface of each of the largest of said rings abutting said center aligning element, said end elements each having a conical inner end surface engaging the substantially continuous conical surface formed by the external peripheral edges of said encircling rings substantially at right angles whereby upon movement by the movable means of the end forcing elements toward said center-aligning element, the stepped surface of said rings bites into the pipe surfaces imparting a longitudinal thrust to the said pipe sections and forcing them toward one another within said center-aligning element, said encircling rings in telescoped relation adapted to form a strut structure under compression.

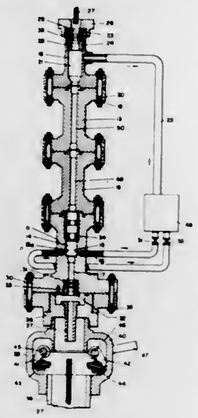
2,670,224
SPHERO-CONICALLY GENERATED FITTING
Arthur R. C. Markl, Louisville, Ky., assignor, by mesne assignments, to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware
Application February 8, 1947, Serial No. 727,412
10 Claims. (Cl. 285—210)



1. A branched pipe fitting having two run portions and a branch portion forming a hollow

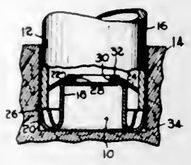
body, the exterior of each of which portions is of generally circular conical form, and all of which portions converge at their larger ends to form a hollow body with the smaller ends of said portions constituting their outer extremities, each of said portions having a bore with an outlet at said outer extremity thereof, the conical exterior surface of each of said run portions and the interior surface defining the bore of the run portion extending at a greater angle to each other on the branch side of the fitting than on the opposite side thereof, the thickness of the walls of the fitting decreasing in all directions from a maximum thickness in the region of each of the crotches formed by the convergence of said branch and run portions, and the thickness of the wall of each run portion, when measured in planes extending normal to the run portion intermediate the branch portion and the extremity of the run portion, being substantially greater on said branch side of the fitting than on said opposite side thereof.

2,670,225
LUBRICATOR DEVICE
Howard E. McKinney, Bellaire, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application September 2, 1950, Serial No. 182,970
7 Claims. (Cl. 286—16)



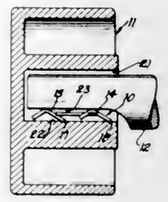
1. An apparatus for forming a pressure seal around a columnar element during insertion into and removal from a high-pressure wellhead, said apparatus comprising a plurality of spool members, means connecting said spool members end to end to each other in fluidtight manner, means mounting the lowermost spool member on top of the wellhead coaxially therewith, an axial bore through said spool members in communication with the wellhead, the diameter of said bore being barely larger than the diameter of said columnar element, said bore in the uppermost spool member and in the upper portion of the lowermost spool member being enlarged to form an upper and a lower pressure fluid chamber respectively, a plurality of axial gas flow resistance orifices mounted in the upper portion of the lower chamber, means comprising radial port means opening to the lower chamber below said axial resistance orifices for injecting a viscous pressure fluid into said lower chamber, and means comprising radial port means opening to the upper chamber for withdrawing said fluid therefrom.

2,670,226
FASTENING DEVICE
Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application January 13, 1951, Serial No. 205,952
7 Claims. (Cl. 287—20)



6. A fastener assembly, comprising a support having an opening, a tubular member having an end disposed in the opening and a fastener retaining the tube in the opening, said fastener comprising a medial portion extending into the inside of the tube in frictional engagement therewith, and means outside the tube in engagement with the wall of the opening, said medial portion and said means being joined by means extending under the end of the wall of the tube.

2,670,227
CONTROL KNOB AND SHAFT CONNECTION
George K. Green, Henrietta, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Application October 28, 1949, Serial No. 124,209
6 Claims. (Cl. 287—53)

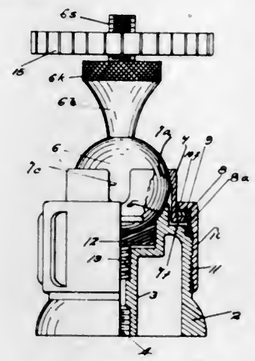


1. In combination, a control knob having a shaft receiving socket including a flat side wall surface, a shaft received in said socket and having a flat surface facing said flat socket surface, and spring means engaging said surfaces comprising a pair of elongate arms of curvilinear cross section extending transversely of said shaft, each of said arms having an open side facing said socket surface and an apex engaging said shaft surface, and a connector member extending between and interconnecting said arms longitudinally of said shaft for maintaining said arms in spaced relation such that certain of the edges of said arms are substantially parallel to each other.

2,670,228
BALL SWIVEL, TRIPOD ASSEMBLY HEAD
Robert J. Pagliuso, La Canada, Calif.
Application March 5, 1951, Serial No. 213,975
3 Claims. (Cl. 287—87)

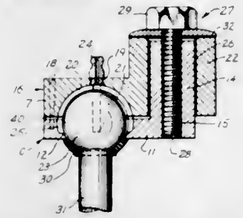
1. A ball and socket assembly including a ball, a body in which the ball is rotatively and tiltably seated, a collar clutching the ball to its body seat, a finger sleeve screwed onto said body, and a member interlocked to the body against rotation

and operatively engaging said collar and being turnably engaged by said sleeve so that the col-



lar can be clamped by the sleeve onto the ball without rotative effect by the sleeve.

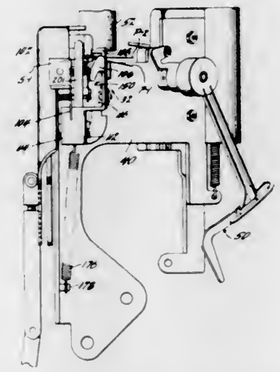
2,670,229
VIBRATION WASHER AND STEERING KNUCKLE
Sam Gore, Vero Beach, Fla.
Application March 30, 1953, Serial No. 345,661
4 Claims. (Cl. 287—90)



1. In a steering knuckle, a body member including a sleeve portion and a plate portion, an arm extending transversely from said sleeve portion, a bracket arranged contiguous to said body member and including a finger seated in said sleeve portion and a flat portion arranged adjacent to said plate portion, there being opposed cooperating sockets in said plate and flat portions, a ball seated in said sockets, a shank extending from said ball, a securing element extending through said finger and arranged in engagement therewith, and a head mounted on an end of said securing element.

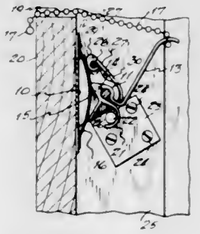
2,670,230
KNOTTER
William V. Goodhue, Warwick, and Arthur N. Verrier, Providence, R. I., assignors to Universal Winding Company, Cranston, R. I., a corporation of Massachusetts
Application May 5, 1951, Serial No. 224,754
13 Claims. (Cl. 289—8)

1. A knotter for tying together two strands comprising a rotary tying bill engageable by said strands, a pivotally supported rocker assembly positioned adjacent said tying bill, strand pinching means supported on said rocker assembly for releasably clamping two reaches of one strand passing to said rocker assembly from said tying bill, means on said tying bill for pinching the free end of a second strand on one side of said tying bill, means yieldingly retaining said second strand on the other side of said tying bill adjacent thereto, an actuating rack supported for reciprocal movement adjacent said bill, means affixed to said rocker assembly engageable by said actuating rack to pivot said rocker assembly relatively to said tying bill in the direction which causes a knot formed on said tying bill to be stripped therefrom and drawn up, a pinion fixed to said tying bill for rotation therewith, a toothed rack formed on said actuating rack engaging said pinion, an arm extending from said actuat-



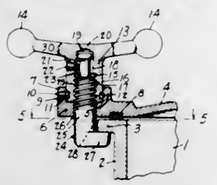
ing rack and positioned to operatively engage said strand pinching means, and means for reciprocating said actuating rack, whereby reciprocation of said actuating rack causes said toothed rack to rotate said bill to form a knot thereon, said arm to move said pinching means to clamping position, and said means affixed to said rocker to be engaged thereby to pivot said rocker assembly to strip from said bill the knot formed thereon.

2,670,231
LATCH
Johnnie L. Leatherman, Millsap, Tex.
Application July 5, 1951, Serial No. 235,130
4 Claims. (Cl. 292—99)



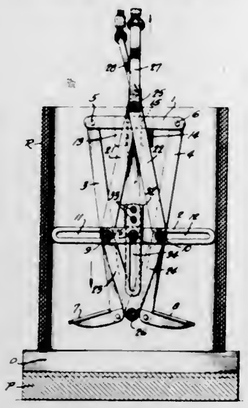
1. In a latch for screen doors cooperating with a latch pin on the door frame, a mounting bracket having a pair of flanges integral with its sides and means for securing the same to a screen door, a latch lever formed with a hook on its lower end and engageable with said latch pin, a cam formed with said lever at its pivot, a lug member formed at right angles to said cam, a spring arranged on said bracket between said flanges and engageable by said cam whereby said lug is engageable by said latch pin to move said hook to overreach and engage the same, means arranged through said door for operating said lever, and a locking member for securing said lever in locked position.

2,670,232
COVER CLAMP
Ewald Schmitz, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application December 5, 1951, Serial No. 259,959
4 Claims. (Cl. 292—256.73)



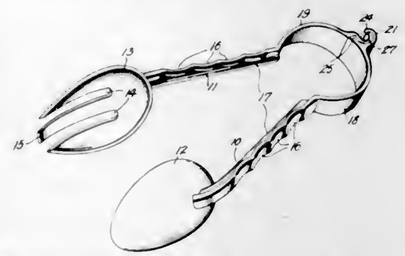
3. The combination of a clamp and cover for use in connection with a storage tank or the like having an annular flange extending circumferentially of an opening for the tank which comprises a cover for said opening having an upstanding circular cup extending axially of said cover, an interiorly threaded cover tightening member wing shape disposed within said cup, said tightening member being free to rotate within said cup but restricted in axial movement therein, a clamping member threadedly disposed within the tightening member, a hook disposed at one end of the clamping member and adapted to bear against the annular flange of the tank, an abutment disposed at the opposite end of the clamping member, and a set screw threaded through the side of said tightening member and extending inside the tightening member beneath the abutment on the clamping member to limit longitudinal movement of the clamping member downwardly and bind the clamping member to the cover tightening member to effect swinging movement of the clamping hook into and out of position for engagement with the annular flange of the tank.

2,670,233
LIFTING AND LOWERING TONGS
Abraham Barchoff, New York, N. Y., assignor to Eastern Brass & Copper Co., Inc., New York, N. Y., a corporation of New York
Application April 18, 1952, Serial No. 283,067
8 Claims. (Cl. 294—97)



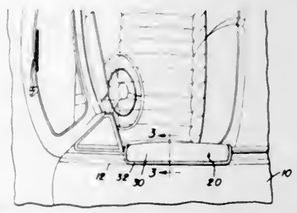
1. A tong device comprising a horizontal bar frame, a pair of tong levers having the upper ends thereof pivotally connected to the opposite ends of said bar frame, a pivot bolt at an intermediate point of each of said tong levers, a quadrangular frame comprising four pivotally connected arms having two opposite corners thereof mounted on said pivot bolts and the junction line of the other two corners thereof parallel to the vertical axis of said tong device, a horizontal guide bar below said bar frame having slots therein for receiving said pivot bolts and for guiding said tong levers in their to-and-fro movements about their pivotal axes on said horizontal bar frame, a vertical control lever having its lower end connected to the bottom corner of said quadrangular frame and its upper end extending through said bar frame, hook means connected to the upper end of said lever for raising the lower corner of said quadrangular frame to effect a spreading of said pivot bolts and a consequent distention of said tongs, and a second hook means connected to the upper corner of said quadrangular frame for effecting a collapse of the tong levers by the weight of said tong device.

2,670,234
FOOD-SERVING APPLIANCE
Nathan W. Roop, Columbus, Ohio, assignor to Columbus Plastic Products, Inc., Columbus, Ohio, a corporation of Ohio
Application October 1, 1951, Serial No. 249,154
1 Claim. (Cl. 294—99)



A food-serving appliance comprising: a pair of members each composed of an integral one-piece molding, each of said members being formed at one end thereof with a resilient bowed extension and at the opposite end thereof with an enlarged food-receiving and manipulating head, the first of said extensions terminating in an outer semicircular tongue element formed with a lip at its outer end, the second of said extensions terminating in an inner complemental tongue element slidably received within and embraced by the outer tongue element, the outer end of said inner tongue element terminating in contact with said lip.

2,670,235
AUTOMOBILE WINDOW ARMREST
Anton J. Susil, Edna, Tex.
Application September 25, 1950, Serial No. 186,586
2 Claims. (Cl. 296—49.2)



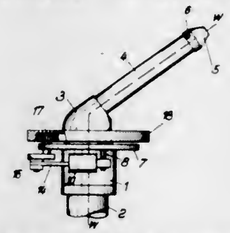
1. An arm rest for automobile windows comprising base and top members each having a rigid plate with a cushioning covering therefor, hinge means connecting said members, clips on said base member adapted for yieldable anchoring in the window glass opening of an automobile window for securing said arm rest to the window, said hinge means being disposed to one side of said opening whereby said top member may lie flat across the opening when the window glass is lowered and will be moved about its hinge means when said window glass is raised, said hinge means comprising flexible straps secured to said top member and extending into and connected to said base member, said rigid plate of the base member having apertures, said straps extending through said apertures, said covering on said base member having pockets formed therein adjacent the hinged edge of said base member, said straps having ends disposed in said pockets, said pockets being on the underside of said base plate and receiving the ends of said straps after the same have been passed through the base plate apertures.

2,670,236
EFFUSING DEVICE
George W. Bradburn, Silver Spring, Md.
Application December 8, 1952, Serial No. 324,672
3 Claims. (Cl. 299—24)



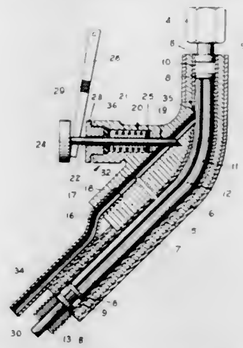
1. An effusing device comprising an elongated cylindrical receptacle for a volatile liquid substance to be effused, said receptacle closed at each end thereof by a centrally apertured end wall portion, a pair of substantially cylindrical members extending inwardly of said receptacle one from each end thereof, said members each seated at one end in one of said end wall apertures, and said members each of a diameter substantially less than the diameter of said receptacle, and said members each of a length substantially less than half the length of said receptacle, said members each being formed with constricted tips at their free ends of a diameter substantially less than the diameter of their body portions, and having minute apertures in said tips whereby when filled with fluid to less than half of the capacity thereof regardless of the position of said device, said liquid will effusively gradually escape but cannot flowingly escape from said receptacle.

2,670,237
SPRINKLING APPARATUS
Karl Laux, Hannover-Linden, Germany
Application February 20, 1950, Serial No. 145,121
3 Claims. (Cl. 299—69)



1. A large area sprinkling apparatus comprising a stationary bearing casing, a rotary part adapted to rotate about the center axis of said bearing casing, a straight jet pipe mounted on said rotary part, and means for feeding water vertically from said bearing casing into said rotary part and to said jet pipe, wherein the water path is twice bent at an acute angle directly after leaving said bearing casing for producing the reaction torque necessary for the operation of the device; and an auxiliary nozzle adapted to be swung about the center axis of said jet pipe and to be locked in an adjusted position for producing an adjustable second reaction torque and for regulating the total reaction torque.

2,670,238
VALVE CONTROLLED COATING MATERIAL HEATING UNIT
Charles B. Lansing and Edward G. Hart, Cleveland, Ohio, assignors to The Arco Company, Cleveland, Ohio, a corporation of Ohio
Application May 22, 1950, Serial No. 163,512
8 Claims. (Cl. 299—86)

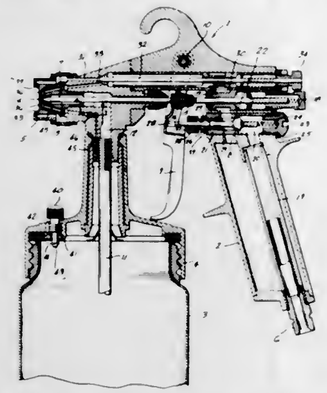


1. In a heating unit associated with a spray gun for heating a coating material prior to spraying, the improvement in said heating unit comprising: a housing oblong in cross section having a curved contour around the trigger portion of said spray gun enclosing therein a heat exchange element, said heat exchange element having a coating material flow capacity equal to the maximum instantaneous coating material demand of said spray gun; a first conduit for admitting steam to said heat exchange element; a second conduit for continuously exhausting steam and condensate from said heat exchange element and to a remotely positioned heat supply reservoir; means for passing said coating material through said heat exchange element in heat exchange relationship to said steam; a valve in said first conduit; means for opening and closing said valve in coordination with the movement of said coating material through said heat exchange element, said valve being integrated with the heat exchange element by attachment to the inner shell of said heat exchange element; and the whole heating unit attached to the spray gun by a bracket.

2,670,239
DUAL PURPOSE SPRAY GUN
Franklin D. Ditch, Sheboygan, Wis., assignor to The Electric Sprayit Company, Sheboygan, Wis., a corporation of Delaware
Application June 5, 1950, Serial No. 166,093
7 Claims. (Cl. 299—86)

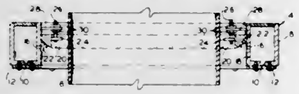
2. A dual purpose spray gun comprising a paint supply valve, an air supply valve, an actuating means to operate said paint valve, a bushing disposed between said air valve and actuating means, and a plunger-like member having an enlarged end of a thickness greater than that of the bushing bore and reversibly mounted within said bushing to interchangeably control the

air valve whereby the enlarged end is disposed either between said bushing and actuating means to permit reciprocal movement of the plunger to positively operate the air valve in response



to said actuating means or is disposed between said bushing and air valve to space the latter in open position regardless of the closure of the paint valve by the actuating means.

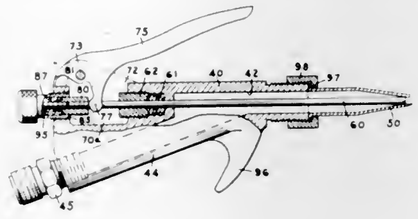
2,670,240
COATING SHOE
Joseph A. Cunningham, Tulsa, Okla., assignor to Perrault Bros., Tulsa, Okla., a corporation of Delaware
Application November 16, 1951, Serial No. 256,795
3 Claims. (Cl. 299—128)



1. A coating shoe for applying coating material on a pipe, comprising an annular housing of a size to loosely surround the pipe and having inlets for coating material, a plurality of circumferentially spaced discharge apertures in the inner periphery of the housing, said discharge apertures being radially disposed to direct coating material discharging therethrough in a radial direction toward the pipe, and an annular splash ring contacting the inner periphery of the housing adjacent the discharge apertures, the side face of said ring adjacent the discharge apertures being beveled outwardly from the outer diameter of the ring toward the inner diameter thereof and arranged to overlie the discharge apertures, whereby the coating material discharging through said apertures will contact said beveled face and spread for flow in a continuous curtain toward the pipe.

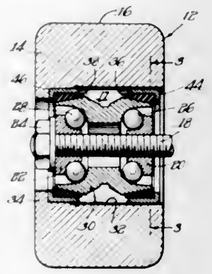
2,670,241
FLOW GUN
George S. Pyles, Detroit, Mich.
Application May 22, 1951, Serial No. 227,573
2 Claims. (Cl. 299—150)

1. A flow gun for relatively viscous material comprising, in combination, an elongate body provided with a longitudinal bore terminating at the front end of the body in a discharge outlet and defining adjacent thereto a valve seat, said bore terminating at the rear end in a body wall extending generally transversely of the bore, a valve in the bore adapted to close upon the seat and having a stem extending slidably through said transverse body wall and projecting rearwardly thereof, said body having a hand grip portion projecting rearwardly angularly from approximately the mid-section of its underside at an angle of less than 45°, said hand grip portion provided with a delivery conduit passageway for viscous material extending therethrough and opening into said bore at an angle of less than 45° directly forwardly of the transverse body wall and forming with the bore a continuous generally smooth passageway for viscous material, a valve actuating lever pivotally mounted upon the body adjacent to the rear end of the body and coupled with the rearwardly



projecting portion of the valve stem to actuate the valve, said lever projecting forwardly from its pivotal mounting upon the body at an angle of less than 45° and overhanging the body and with the top side of the lever when the valve is closed disposed substantially parallel to the underside of the hand grip portion and substantially in the plane of the body and the hand grip portion whereby the lever and the hand grip portion are adapted to be grasped within one hand of an operator, said body provided with a handle portion projecting downwardly therefrom at approximately the juncture of the hand grip portion therewith and lying in the plane defined thereby.

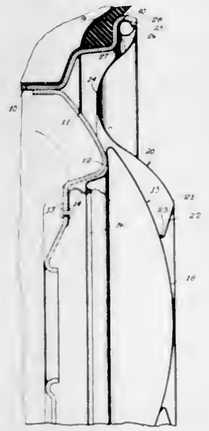
2,670,242
ROLLER STRUCTURE
Edward Manfrid Beckman, Chicago, Ill., assignor to Chicago Roller Skate Company, Chicago, Ill., a corporation of Arizona
Application June 30, 1948, Serial No. 36,093
3 Claims. (Cl. 301—5.7)



3. A roller skate wheel comprising a body having an axially extending substantially cylindrical central chamber formed therein, a flange formed on one of the axial ends of said body and extending radially inwardly to partially close one end of said chamber, a bearing bushing substantially centrally disposed within said chamber, said bearing bushing having a pair of oppositely tapered

outer marginal surfaces adjacent the opposite ends thereof, a pair of resilient rings shaped complementary to said tapered surfaces engaging said surfaces, retainer means positioned between said rings and said body, inwardly directed flanges formed on the outwardly disposed edges of the retainer means, one of said last-mentioned flanges abutting against the flange on said body, the flanges on said retainer means engaging the outwardly disposed edges of the rings to hold said rings in operative position, and means embedded in said body and connected to said retainer means for interlocking the retainer means in respect to the body and preventing axial displacement of the rings with respect to the body.

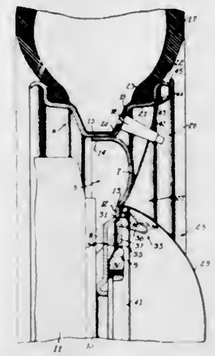
2,670,243
WHEEL COVER
George Albert Lyon, Detroit, Mich.
Application November 12, 1949, Serial No. 126,867
2 Claims. (Cl. 301—37)



1. In a wheel structure including a tire rim having a radially outer terminal flange, a supporting member for the rim and a detachable hub cap at the center of the supporting member, an annular wheel cover having an underturned outer peripheral margin terminating in a rearwardly extending cover retaining flange including an axially rearwardly extending continuous flange portion, said flange portion being recessed at spaced intervals and having resiliently yieldable finger extension portions alternating with the recesses and each of which is formed into a radially outwardly facing loop-like element for stressed resilient engagement with said terminal flange, said cover having a radially inner turned edge for bottoming against said hub cap when the cover is on the wheel.

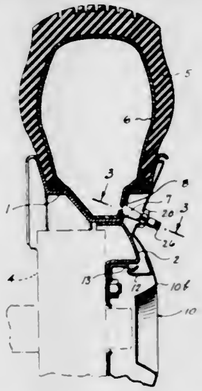
2,670,244
WHEEL COVER
George Albert Lyon, Detroit, Mich.
Original application November 24, 1944, Serial No. 564,971, now Patent No. 2,541,079, dated February 13, 1951. Divided and this application March 14, 1950, Serial No. 149,633
7 Claims. (Cl. 301—37)

1. In a wheel cover structure, a cover to be secured to a wheel body part, the center of said cover having a plurality of radially extending ribs disposed circularly about the cover axis, and



respective hub cap retaining spring elements secured to said ribs.

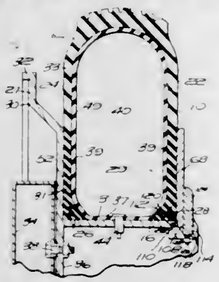
2,670,245
HUBCAP SECURING MEANS
Keith C. Kimerer, Seattle, Wash.
Application November 30, 1951, Serial No. 259,119
1 Claim. (Cl. 301—37)



An automobile wheel having a rim formed with a side opening and a pneumatic tire carried by the rim and having an inflating stem passing outwardly through the side opening in the rim and terminating in a threaded cap-receiving outer end portion, a stiff hub cap removably secured against the outer side of said wheel and having a marginal portion overlapping the outer side of the rim and formed with an opening through which the threaded outer end portion of the inflating stem passes and projects outwardly from the said marginal portion of the hub cap, a separate securing nut for the hub cap screwed upon the threaded end portion of said inflating stem and bearing against a marginal portion of the hub cap about the opening therein, said nut being formed with a threaded radially extending side opening open at both inner and outer ends, a locking screw in the threaded opening of said nut having its outer end spaced inwardly from the outer end of the threaded opening and provided with a wrench-engaging portion, the inner end of the screw being tapered to a point and disposed in penetrating engagement with threads of the inflating stem and thereby locking the nut upon the inflating stem when the screw is tightened, and a separate cap screwed upon the outer

end of the inflating stem in enclosing and shielding relation thereto and being removable from the inflating stem independent of the nut whereby air may be forced through the inflating stem and into the tire without disturbing said nut.

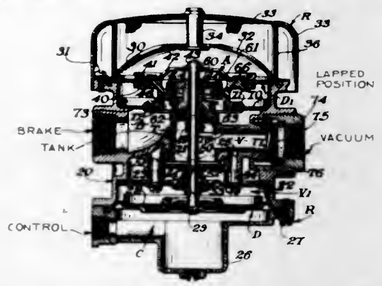
2,670,246
EMERGENCY WHEEL FOR PNEUMATIC TIRES
John B. Des Rosiers, Providence, R. I.
Application April 19, 1949, Serial No. 88,425
2 Claims. (Cl. 301—39)



1. A vehicle wheel, comprising a brake drum, an inner annular flange mounted on the side wall of said brake drum, having a flat annular rim providing portion projecting laterally therefrom, having a down-set portion at the outer end thereof providing an annular shoulder and having an annular groove therein beyond said shoulder having pairs of holes therein diametrically thereof, said inner annular flange projecting upwardly a substantial distance, then obliquely inwardly and upwardly and terminating in a flat end providing a supporting rim, providing an emergency solid wheel, a pneumatic tire oblong in section and having substantially flat side walls terminating in flat ends abutting said rim and having an inner chamber portion having a height substantially of at least twice its width and having a substantially flat lower end and substantially flat side walls with said inner wall abutting said inner flange substantially throughout half its height and an outer annular flange also substantially half the height of said tire abutting the outer wall of said tire and having an end abutting the shoulder on the outer inset portion of said rim and a locking ring plate comprising two hemi-annular sections contained within said groove having an inner surface abutting the outer surface of said detachable flange and threaded bolt extensions projecting downwardly through the diametric pairs of holes in said annular groove in the outer down-set portion of said rim and nuts threaded on the lower ends thereof abutting the lower surface of the down-set portion of said rim to clamp the sections of said locking ring in position with its inner surface abutting said outer flange to cause it to clamp against the outer wall of said tire to clamp said tire against said inner flange in the channel formed by the said flanges.

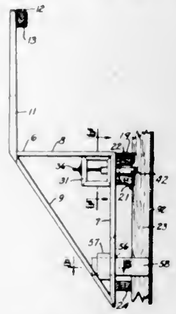
2,670,247
RELAY VALVE FOR VACUUM BRAKE SYSTEMS
John R. Almond, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application April 20, 1950, Serial No. 157,041
5 Claims. (Cl. 303—31)

1. A control valve for a vacuum brake system comprising a body member having vacuum, control and brake connections, a vacuum chamber, a control chamber partly defined by a control diaphragm, and a brake chamber, a response diaphragm partly defining said brake chamber and exposed to atmospheric pressure, a fixed wall between said vacuum chamber and said brake chamber and having a vacuum port, an air port in said response diaphragm, unitary air and vacuum valve means for said air and vacuum ports, resilient means associated with said response diaphragm and said valve means for normally closing said air port and closing said vacuum



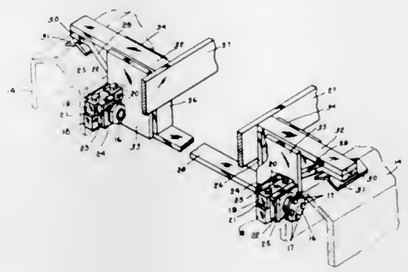
port, mechanical operating means extending through said unitary valve means and said ports and engaging said control and response diaphragms, packing in said unitary valve means surrounding and engaging said mechanical operating means to prevent the passage therebetween of air from outside of the response diaphragm into said vacuum chamber, said unitary valve means and packing being movable relative to said mechanical operating means only during the opening and closing of said air port and being movable at all other times with said operating means.

2,670,248
SCAFFOLD BRACKET
Milton J. Heller, Sacramento, Calif.
Application October 1, 1951, Serial No. 249,171
2 Claims. (Cl. 304—14)



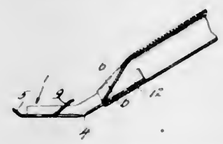
1. A scaffold bracket comprising a rigid triangular frame including an abutment bar, a strut bar and a floor bar; a backing bar depending from said floor bar parallel to said abutment bar and having a surface facing said abutment bar but spaced therefrom, an opening in said abutment bar in alignment with said surface and adapted to receive a stand-off member extending through said opening and abutting said surface, aligned apertures in said abutment bar and said backing bar; a tension rod passing through said apertures and having means on its outer end for engaging a supporting structure, and tensioning means on said rod engaging the side of said backing bar remote from said abutment bar.

2,670,249
SEMIRIGID MOUNTING FOR TRACTORS
John S. Pilch, Ware, Mass.
Application August 25, 1950, Serial No. 181,487
8 Claims. (Cl. 305—8)



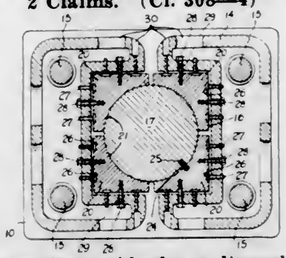
1. In a track type engine propelled tractor, having a pair of track frames each having a trunnion on the inner side wall thereof, a mounting for allowing limited oscillation of the tracks and controlling side weave and up and down movement of said tracks while the tractor is passing over a rough surface, said mounting comprising a cross member having a portion extending under the tractor engine and end portions at each end of said cross member with each of said end portions having a pair of branches with one branch of each pair extending over each of the tractor track frames, means for securing one branch of said end portions to its respective trunnion, said means comprising a pair of split plate members, each of said plate members being secured to one of said trunnions, the other branch of said end portions each having a portion secured to the tractor frame and a portion extending over the tractor track frame.

2,670,250
CONNECTOR FOR BROOMS, BRUSHES, MOPS, AND THE LIKE
Glenn George Greene, Jr., Warren, Pa.
Application October 4, 1949, Serial No. 119,538
1 Claim. (Cl. 306—25)



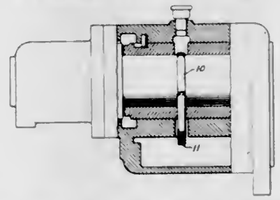
A connector for securing a cleaning implement to a handle, comprising a body member having means for attaching it to the implement, and having a shank of substantially semi-cylindrical semi-tubular uniform cross-section from the body member to its extremity, and a substantially cylindrical tubular handle into an end of which the semi-cylindrical semi-tubular shank of said member extends, the outer convex side of the shank fitting against the inner side of one wall of said end of the handle, and the other wall of said end of the handle being bowed inwardly into the inner concave side of the shank on a curvature the axis of which is inclined to the axis of the handle and embracing and frictionally gripping the shank between the opposite walls of said end of the handle.

2,670,251
ADJUSTABLE BEARING GUIDE FOR LINEALLY MOVABLE SHAFTS
Murray C. Tribbett, Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Mount Gilead, Ohio, a corporation of Delaware
Application October 4, 1950, Serial No. 188,439
2 Claims. (Cl. 308—4)



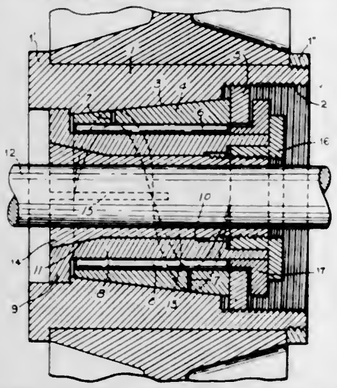
1. In a bearing guide for a linearly movable cylindrical shaft; a stationary frame defining a chamber of rectangular cross-sectional configuration about an intermediate portion of the shaft; a plurality of bearing gibs carried by said frame within said chamber for limited radial movement with respect to the shaft, each of said gibs being formed with an arcuately concaved bearing face for close fitting engagement with a segment of the outer surface of the shaft and a pair of right angular side walls disposed in adjacent relation to a corner region of said chamber; set screw means threadedly carried in said frame and engaging the separate side walls of each of said gibs, said set screw means being adjustable to move said gibs from the corner regions of said chamber radially inwardly toward the shaft; and locking means for holding said gibs in radially adjusted positions with respect to said shaft comprising screw-threaded members rotatably carried in said frame and threadedly engaged with each of said gibs at each of the side walls thereof and adjustable to draw said gibs radially outwardly with respect to said shaft and toward the corner regions of said chamber and into tight engagement with said set screw means.

2,670,252
OIL RING
Raymond S. Grant, Port Arthur, Tex.
Application August 11, 1952, Serial No. 303,710
5 Claims. (Cl. 308—129)



1. A two-piece floating oil ring for carrying oil to a rotary shaft bearing from a cellar well comprising: a pair of resilient semi-annular members; means for joining said members around the shaft to be lubricated, said means including an open-ended groove formed in the outer face of said members at each end thereof and a pair of wire-like loops rigidly secured within two of said grooves and extending outwardly thereof, the outwardly extending portion of each of said loops forming attaching means for engagement within the other two grooves for releasably joining the said two semi-annular members to form an annular oil ring.

2,670,253
NEEDLE BEARING
Hermann Scherler, Bois-Colombes, France, assignor, by mesne assignments, to Society Usines Tornos, Fabrique de Machines Moutier S. A.
Application April 9, 1949, Serial No. 86,578
Claims priority, application France April 12, 1948
7 Claims. (Cl. 308—207)



1. Needle bearing comprising in combination an outwardly tapered sleeve, constituted by a single body and provided with an inner cylindrical surface forming the outer needle race and with a helical split shaped in a single and complete turn of spiral, the pitch of which is equal to the length of said sleeve, an outer case provided with a tapered bore wherein said sleeve is lodged, an inner thread in said case, a tightening nut engaging said inner thread, a cylindrical socket forming the inner race and having at one and the same end a flange and a conical flare, a shaft gripping tube disposed inside said socket and provided with a conical split head corresponding to said conical flare and at the opposite end with an outer thread, a second tightening nut engaging said outer thread and a washer arranged between the two tightening nuts, said washer and the flange of the cylindrical socket forming the axial abutments of the bearing.

2,670,254
PISTON SKIRT STABILIZER
Melvin W. Marien, Richmond Heights, Mo., assignor to Ramsey Corporation, St. Louis, Mo., a corporation of Delaware
Application September 30, 1950, Serial No. 187,790
8 Claims. (Cl. 309—12)



1. A piston stabilizer comprising a pair of tubular housings, a third tubular member in telescopic relation therewith, a coiled spring disposed within the assembled housings and suitable formations on the inner extremities of said pair of housings to receive a tool whereby said housings may be contracted over the pressure of said spring.

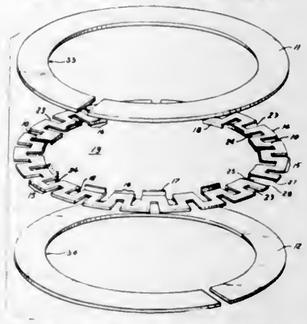
2,670,255
PISTON PACKING RING
Alfred Bergeron, Dallas, Tex.
Application June 21, 1950, Serial No. 169,430
14 Claims. (Cl. 309—28)

12. A packing ring for use in a rectangular ring-receiving groove of a piston comprising an expansion ring comprising an upper expansion ring part and a lower expansion ring part and a flexible sealing ring, said sealing ring being arched transversely of its length and resiliently compressible to engage resiliently between the expansion ring and the wall of the ring-receiving groove with the crown of the arch engaging the expansion ring and the edges of the arch engaging the wall of the piston groove, said expan-



sion ring having a recess along the upper edge of its inner periphery and said sealing ring having a cylindrical flange at its inner edge engaging in said recess to prevent radial outward movement of the sealing ring, substantially as and for the purpose described, said upper expansion ring part having a groove in the undersurface thereof and said lower expansion ring part having a ball recess in the upper face thereof, and a ball in said recess and groove.

2,670,256
PISTON RING
Hsia-Si Pien, Drexel Hill, Pa., assignor to Wilkening Manufacturing Company, Philadelphia, Pa., a corporation of Delaware
Application November 1, 1951, Serial No. 254,345
5 Claims. (Cl. 309—29)

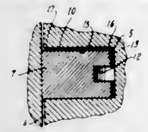


1. A multi-piece spring-expanded piston-ring comprising a plurality of spaced-apart sealing rings, and a generally flat and generally annular intervening corrugated spacer and expander spring intermediate said sealing rings and spacing them apart, having one complete gap therein to form two separate abuttable ends and having its corrugations extending to-and-fro in a generally radial direction and being circumferentially compressible with its free ends in abutting relation to each other, and having seal-engaging lugs at its inner periphery extending axially therefrom into engagement, alternately, with the inner peripheries of the opposed sealing-rings.

2,670,257
PISTON RING
Alfred Bergeron, Dallas, Tex.
Application June 21, 1950, Serial No. 169,429
17 Claims. (Cl. 309—44)

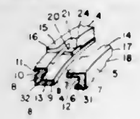
17. A packing ring for use in the ring-receiving groove of a piston comprising an expansion ring and a flexible sealing ring engaging one flat side face of the expansion ring, said sealing ring being in engagement with the pressure face of said expansion ring whereby fluid under pressure acts

in the same direction as the pressure of said sealing ring against the said pressure face of said expansion ring, said sealing ring being arched in cross-section throughout its length and resiliently compressible and adapted to engage resiliently between the side face of the expansion ring and



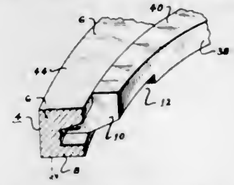
the side wall face of the ring-receiving groove, with the edges of the arch against one face and the crown of the arch against the other face, said expansion ring and said sealing ring each having open ends, said open ends of each of said rings having stepped surfaces.

2,670,258
PISTON RING CONSTRUCTION
Alfred Bergeron, Dallas, Tex.
Application February 28, 1952, Serial No. 273,968
14 Claims. (Cl. 309—46)



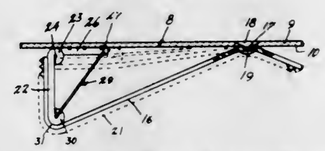
1. A piston ring comprising an upper split ring member and a lower split ring member, each ring member having a channel, a key means rigidly mounted in one of said channels of the ring members, said ring members being generally U-shaped in cross section and a joint for the ends of the other of said ring members, the said joint having means adapted to sealingly engage the said key means, including a vertical step which overlies said key means, and inter-engaging ends having mating curved surfaces.

2,670,259
PISTON RING
Alfred Bergeron, Chicopee Falls, Mass.
Application November 22, 1949, Serial No. 128,892
10 Claims. (Cl. 309—47)



1. A piston ring construction comprising in combination inner and outer split ring sections, said outer ring section provided with an inwardly extending annular groove between upper and lower flanges thereof, said inner ring section having an outwardly extending tapered rib disposed in and fitting said groove, a separate key secured to the rib and extending outwardly therefrom, the ends of the outer ring section being formed with notches and tongues fitting said key engaging either side thereof and forming a seal, and a second separate key secured to the outer ring section spaced circumferentially from the first key, the ends of the inner ring section being formed with notches fitting said key and forming a lock therewith.

2,670,260
SUPPORT MEANS FOR SERVING TRAYS
Loyd B. Watt, Spokane, Wash.
Application October 30, 1951, Serial No. 253,930
1 Claim. (Cl. 311—84)



A serving tray including a bottom having a lower face, a pair of resilient bands spaced longitudinally of the bottom and extending transversely thereof, a rivet passing through the bottom and band midway the length of the band and securing the band to the lower face at its transverse center, pairs of transversely opposed arms secured to the face in diametric alignment with said rivet, a sleeve on the outer end of each said arm, a journal pin through each sleeve and extending from the ends thereof, depending legs having ears pivotally mounted on each journal pin, whereby said legs are hingedly connected to their respective arms, a sleeve on the lower end of each said leg, a brace pivotally carried by each said sleeve and notches in the arms adapted to receive the free end of said braces and releasably secure the legs in vertical position, said bands having their outer end portions adheringly secured to companion legs.

2,670,261
PHONOGRAPH RECORD DISK SAFETY AND INTERLOCKING STORAGE ALBUM
Herman H. Mueller, Ephrata, Pa., assignor of 5.58% to George L. Bowman, Ephrata, 14% to Stanley A. Radzay, Ephrata, Pa., 14% to Henry Seidenberg, Malverne, N. Y., 2.92% to John L. Bowman, Denver, 7% to W. Hensel Brown, Lancaster, 3.25% to C. Eugene Miller, Ephrata, and 3.25% to Lillian Hess Kurtz, Lancaster, Pa.
Application May 12, 1950, Serial No. 161,519
11 Claims. (Cl. 312—10)

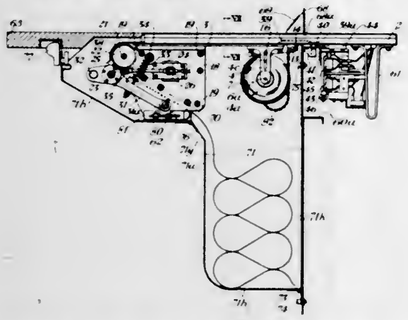


2. In a phonograph record album having a cover, a spindle fixedly mounted on said cover for receiving a stack of record disks thereon, a lock means retaining a stack of record disks on said spindle, said spindle having a plurality of annular locking recesses in the exterior surface of the same and spaced longitudinally of said spindle, said lock means having a latch embracing said spindle and releasably engageable selectively with said recesses.

2,670,262
DESK ENCLOSURE FOR AUTOMATIC RECORDERS
William R. Gracey, Jr., Alexandria, Va., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Original application January 25, 1947, Serial No. 724,429. Divided and this application November 5, 1952, Serial No. 318,925
2 Claims. (Cl. 346—22)

1. In combination, a wall, a desk disposed in front of said wall, the top of said desk being pro-

vided with a movable front portion and with



an opening disposed between said movable portion and said wall, recorder supports secured to said desk top at opposite sides of said opening, a graphic recorder slidably supported on said supports in a manner to be visible through said opening and provided with a roll of record paper which is advanced at a uniform rate of speed by a drive mechanism disposed at the forward end of the recorder, a bin pivotally attached at its lower end to said wall and secured at its upper end to said wall by separable fasteners, said bin serving to enclose the underside of said recorder and being provided at its forward end with a hinged cover portion and with means for latching said cover portion in a closed position, and a chute for guiding the paper as it leaves the recorder into said bin, said chute comprising a chute top plate secured to the underside of said recorder and a chute bottom plate secured to said cover portion.

CHEMICAL

2,670,263

COMPOSITION AND PROCESS FOR DYEING POLYETHYLENE TEREPHTHALATE FIBERS

Hans Luttringhaus, Chatham, N. J., and Alex Anthony Arcus, Bellerose, N. Y., assignors to General Dyestuff Corporation, New York, N. Y., a corporation of New York

No Drawing. Application March 21, 1951, Serial No. 216,846

8 Claims. (Cl. 8—34)

1. A composition for dyeing polyethylene terephthalate fibers which comprises an acid-vat dye, a carrier selected from the group consisting of chlorobenzene, orthodichlorobenzene, and trichlorobenzene, and a dispersing agent therefor.

2,670,264

DYEING CELLULOSE ESTERS

Richard Wilson Nebel, Chester, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 31, 1951, Serial No. 244,741

3 Claims. (Cl. 8—35)

1. A process for dyeing cellulose acetate which comprises blending said cellulose acetate with from about 3% to about 10%, based on the weight of the said cellulose acetate, of a member of the class consisting of polydimethylaminoethylmethacrylate and polydiethylaminoethylmethacrylate; impregnating the resultant blend with a sodium salt of the sulfuric ester of the leuco form of the dye, 6,6'-dichloro-4,4'-dimethyl - 2,2' - bis - thionaphthenindigo; rinsing the resultant impregnated material; and oxidizing the said dye.

2,670,265

PROCESS FOR FIXING WATER-SOLUBLE ORGANIC COMPOUNDS ON MATERIALS OF FIBROUS STRUCTURE

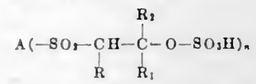
Johannes Heyna, Frankfurt am Main Unterliederbach, and Wilhelm Schumacher, Frankfurt am Main, Germany, assignors to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Bruning, Frankfurt am Main Hochst, Germany, a company of Germany

No Drawing. Application July 11, 1950, Serial No. 173,246

Claims priority, application Germany July 18, 1949

5 Claims. (Cl. 8—49)

1. Process for fixing water-soluble organic compounds in the form of water-insoluble derivatives thereof on materials of fibrous structure which comprises applying to the material a water-soluble compound corresponding in the free form to the general formula



wherein A is an insoluble radical of an organic compound, R, R_1 and R_2 are members of the group consisting of hydrogen and alkyl and n is one of the numbers ranging from 1 to 3, and subjecting the treated material, as an essential part of said fixing operation, to the action of an agent of alkaline reaction to form the water-insoluble derivative of the compound.

2,670,266

TEXTILE BLEACH-FINISH PROCESS

George Sigler, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 8, 1949, Serial No. 131,921

4 Claims. (Cl. 8—108)

1. The method for bleaching and finishing wet textile yarns and fibers during the drying operation which comprises drying textile fiber impregnated with an aqueous solution containing a finishing oil and sodium chlorite to produce directly a bleached and finished product.

2,670,267

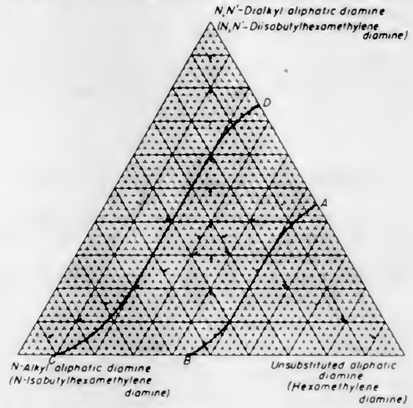
HEAT-TREATMENT OF N-ALKYL POLYAMIDES

Olaf A. Bredeson, Waynesboro, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application May 2, 1950, Serial No. 159,569

5 Claims. (Cl. 8—130.1)

1. The process which comprises heating yarns of oriented filaments of a copolyamide produced by reacting (1) at least one unsubstituted aliphatic diamine containing a straight chain of at least five carbon atoms separating the amine groups, (2) at least one member of the group consisting of N-alkyl substituted aliphatic diamines and N,N'-dialkyl substituted aliphatic diamines each containing a straight chain of at least five carbon atoms separating the amine groups and each alkyl group containing at least two carbon atoms, and (3) at least one straight chain aliphatic dibasic carboxylic acid containing at least six carbon atoms in the chain, the relative proportions of said unsubstituted diamines, alkyl substituted diamines, and acids being such as to come within the area ABCD of Fig. 1 of the accompanying drawing, in a medium



from the group consisting of water, and air at a high relative humidity, to a temperature of from 60° to 80° C., at substantially constant length for at least 3 seconds and thereafter heating said yarn at substantially constant length and at a temperature of from 90° to 100° C., for from about 5 minutes to about one hour.

2,670,268

WET SPINNING OF POLYACRYLONITRILE FROM SALT SOLUTIONS

George W. Stanton, Walnut Creek, and Thomas C. Spence, Concord, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application May 28, 1951, Serial No. 228,754

3 Claims. (Cl. 18—54)

1. In the wet spinning of aqueous salt solutions of polymers rich in acrylonitrile, the improvement which consists in employing, in one of the baths through which the spun product passes during its production, an aqueous solution of an organic peptizing agent for the polymer at a concentration of at least 5 per cent but insufficient to weaken the spun product, and passing the product through said bath at a rate to absorb at least 2 per cent of peptizing agent in the product, based on the weight of the product.

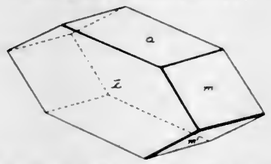
2,670,269

SODIUM CARBONATE

Henry W. Rahn, Corpus Christi, Tex., assignor to Columbia-Southern Chemical Corporation, a corporation of Delaware

Application July 13, 1950, Serial No. 173,520

11 Claims. (Cl. 23—63)



1. A method of manufacturing sodium carbonate monohydrate by hydration of sodium carbonate which comprises conducting the hydration in the presence of an agent selected from the class consisting of organosulfates, organosulfonates, and their water soluble salts.

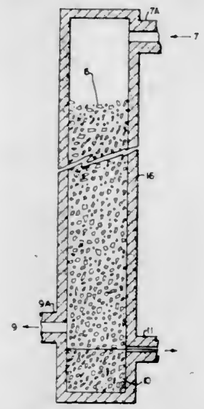
2,670,270

PRODUCTION OF PURE DIHALIDES

James Fernando Jordan, Huntington Park, Calif.

Application November 14, 1951, Serial No. 256,286

2 Claims. (Cl. 23—87)



1. The process for forming a substantially iron-free dihalide selected from the group consisting of the dichloride, dibromide and diiodide of a metal selected from the group consisting of titanium and zirconium, which comprises: heating a loosely-packed column of solid pieces of said metal containing iron to a temperature that lies above the melting point and below the boiling point of said dihalide; flowing the gaseous tetrahalide of said metal in reacting contact with said column to form the molten dihalide of said metal; and flowing said molten dihalide in reacting contact through and out of said column to form a molten dihalide that is substantially iron-free and that is substantially stable on cooling.

2,670,271

PROCESS OF RECOVERING METAL VALUES FROM LEACH LIQUORS

Alfred M. Thomsen, San Francisco, Calif.

No Drawing. Application November 27, 1948, Serial No. 62,423

2 Claims. (Cl. 23—119)

1. In the process of dissolving and separating metal values from finely ground metal bearing ores by roasting with a chloride salt followed by lixiviation of the calcined charge and, thereby, solution of the metal values and, thereafter, precipitation of the metal values from the leach liquor so obtained, the steps of treating a leach liquor of said process comprising sulfates and chlorides of iron, zinc, copper, silver, lead and alkali metal with a solution produced by commingling a flue gas containing carbon dioxide, ammonia gas and water to form a water solution of a carbonated form of ammonia, said solution being added in sufficient amount to precipitate the iron component of the leach liquor as ferric hydroxide, and separating said precipitate, commingling the residual leach liquor with hydrogen sulfide to precipitate copper, silver, lead and other members of the H_2S group, and separating the sulfide precipitate thus obtained, neu-

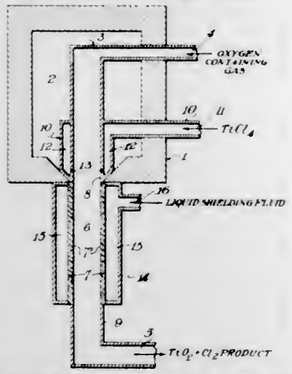
tralizing the residual leach liquor which has become acid through regeneration, and precipitating the resident heavy metal present therein by the addition of a further quantity of the said solution of a carbonated form of ammonia, separating the precipitate produced thereby and recovering the fixed ammonia salts resident in the said leach liquor by crystallization.

2,670,272

METAL OXIDE PRODUCTION

Robert D. Nutting, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application December 15, 1951, Serial No. 261,863
8 Claims. (Cl. 23—139)



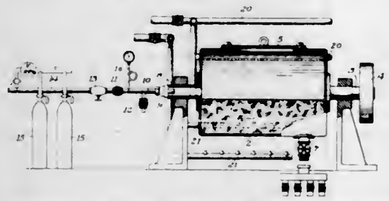
1. A method for decomposing a vaporized metal halide with an oxidizing gas which comprises effecting said decomposition within a reaction zone provided with a substantially rigid, porous refractory wall, maintaining said wall in relatively cool condition, below about 300° C., and the surfaces thereof within said zone out of direct contact with the reactants and reaction products by forcing an inert, normally gaseous fluid in the liquid state into said wall during the decomposition for vaporization on said surfaces, and recovering the metal oxide product from the resulting reaction products.

2,670,273

CONVERSION OF METALS INTO METAL OXIDES AND HYDROXIDES

John E. Munn, Bellevue, Pa.

Application April 10, 1947, Serial No. 740,641
6 Claims. (Cl. 23—147)



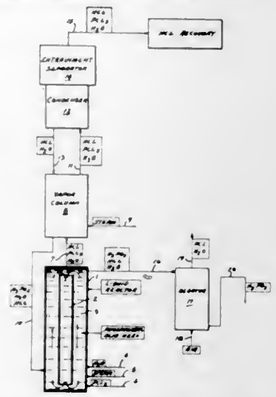
1. The method of making a metal compound of the group consisting of an oxide and hydroxide from pieces of the raw metal which comprises tumbling the metal pieces in an environment closed against the escape of gas and vapors during the tumbling process containing part liquid and part gas so that in the tumbling process the metal is alternately immersed in the liquid and then exposed to the gas, the gas being commercial oxygen and the liquid being an ammoniacal solution which corrodes the metal, the metal being a metal of the group consisting of copper, nickel, cobalt, zinc, iron, cadmium and silver supplying additional oxygen to the environment as the oxygen is consumed therefrom and continuously during such operation using the same ammoniacal solution and producing during such operation a metallic compound of said group consisting of the oxide and hydroxide from the metal so treated, the ammonia in the ammoniacal solution remaining substantially fixed as such in the solution throughout the process and recovering such metallic compound so formed.

2,670,274

METHOD OF PRODUCING ORTHO-PHOSPHORIC ACID

Otha C. Jones, Campbell, Calif., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

Application October 25, 1951, Serial No. 253,111
12 Claims. (Cl. 23—165)



1. The method of continuously producing an acid selected from the group consisting of ortho-phosphoric and ortho-phosphorous acids by the hydrolysis of phosphorus oxytrihalide and phosphorus trihalide, respectively, which comprises continuously supplying both water and a compound selected from the group consisting of phosphorus oxytrihalide and phosphorus trihalide directly to the lower half of an elongated vertical column reactor containing a heel of said acid of at least 70% strength, said acid being cyclically circulated in a continuous stream of substantially constant composition from the bottom of said heel to substantially the top thereof, maintaining said cyclically circulating heel at a temperature of at least 75° C. to effect continuous hydrolysis of said phosphorus oxytrihalide and said phosphorus trihalide into said acid and a gaseous mixture including unconverted reactants and hydrogen halide, but below that temperature at which substantial decomposition of said phosphorus oxytrihalide and said phosphorus trihalide into products other than said acid and said gaseous mixture takes place, and continuously withdrawing the resulting acid at a rate so correlated with the feed as to maintain the volume of said acid heel substantially constant, said reactants being supplied to said reactor at a rate effecting continuous hydrolysis of from about 70% to about 98% by weight of said phosphorus oxytrihalide and said phosphorus trihalide, said phosphorus oxytrihalide and said phosphorus trihalide containing halogen atoms selected from the group consisting of chlorine and bromine, and said acid heel being cyclically circulated in the above-

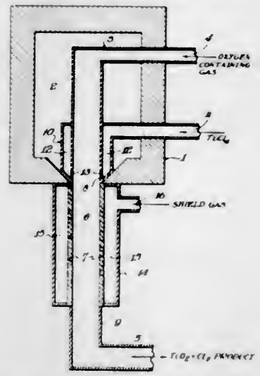
described manner by the pumping action produced by the volatilization of said gaseous mixture within said acid heel.

2,670,275

METAL OXIDE PRODUCTION

Carl M. Olson, Newark, and John Nelson Tully, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application September 2, 1950, Serial No. 182,922
10 Claims. (Cl. 23—202)



1. A method for producing a metal oxide which comprises decomposing a halide of a metal with an oxidizing gas in the vapor phase within a restricted reaction zone, and during said decomposition maintaining a shielding inert gas film over the internal surfaces of said zone adapted to prevent substantial contact of the reactants with said surfaces, said shielding gas being introduced into said zone through a porous refractory wall of said zone and from a source maintained about its exterior.

2,670,276

MANIPULATION AND STORAGE OF BROMINE

Rudolf Bloch, Isaac Schnerb, and David Kaplan, Jerusalem, Israel

No Drawing. Application May 24, 1949, Serial No. 95,144
Claims priority, application France September 25, 1948
6 Claims. (Cl. 23—216)

1. In the method of maintaining liquid bromine in a leaden vessel in the presence of moisture and substances which reduce bromine to hydrogen bromide in the presence of moisture at atmospheric conditions the step of preventing corrosion of said vessel which comprises adding to said bromine an oxygen-containing compound capable of oxidizing hydrogen bromide to elemental bromine at atmospheric conditions and selected from the group consisting of PbO_2, MnO_2 and salts of oxygen acids of bromine.

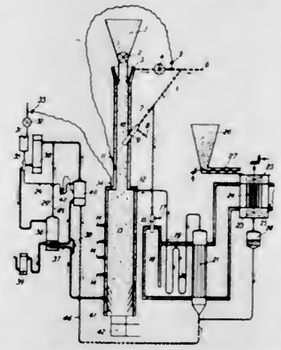
2,670,277

METHOD AND APPARATUS FOR THE CONTINUOUS PRODUCTION OF CARBON DISULPHIDE

Ernest Charles, Clamecy, France, assignor to Societe des Produits Chimiques de Clamecy, Clamecy, France, a corporation of France

Application June 10, 1949, Serial No. 98,346
Claims priority, application France June 12, 1948
2 Claims. (Cl. 23—277)

1. Apparatus for producing carbon disulfide, comprising in combination, a vertically extending heat-insulated reaction retort, a vertically extending heat-insulated preheating chamber positioned above said retort and having its lower portion in communication with the upper portion of said retort, means for feeding carbonaceous material into the upper portion of said preheating chamber, a burner for injecting a combustible gas and air into an intermediate portion of said chamber for combustion therein for heating said carbonaceous material whereby heated carbonaceous material is delivered into said retort, a gas pump for withdrawing combustible gas from the



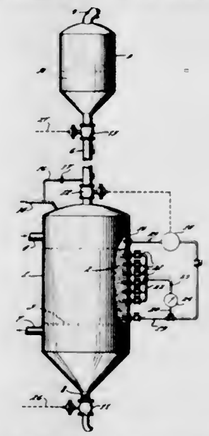
upper portion of said preheating chamber and a conduit for returning a portion thereof to said burner, a sulfur vaporizing and superheating furnace, a conduit for supplying another portion of said combustible gas to said furnace, a burner for burning said other portion of said combustible gas in said furnace to produce heat for vaporizing sulfur and superheating the resulting vapor, a conduit for supplying the resulting superheated sulfur vapor to the upper portion of said retort, and a conduit for withdrawing crude carbon disulfide vapors from the lower portion of said retort.

2,670,278

APPARATUS FOR CONTROLLING BED DEPTH IN CONVERSION SYSTEMS

Alfred S. King, Long Beach, Calif., and Willis J. Cross, Jr., Swarthmore, Pa., assignors to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

Application April 20, 1950, Serial No. 157,172
3 Claims. (Cl. 23—288)



1. In a hydrocarbon conversion system wherein gaseous reactants flow through a compact mov-

ing bed of granular contact material gravitating through a contact zone, means for controlling the depth of said moving bed comprising a vessel containing said contact zone, adjustable flow control means at the upper and lower ends of said vessel for controlling, respectively, the supply of granular material into and the discharge thereof from said vessel, a plurality of pressure-transmitting means vertically spaced along a side of said vessel, the uppermost of said pressure-transmitting means being located in the upper region of said vessel and the lowermost thereof being located at the bottom of said bed, a differential-pressure indicator selectively connectable between the lowermost and any of the intermediate pressure-transmitting means, and a differential-pressure controller connected between said uppermost and said lowermost pressure-transmitting means for regulating in response to the differential pressure therebetween one of said adjustable flow control means.

2,670,279

PROCESS FOR PRODUCING LOW-GLARE CATHODE-RAY TUBES

Constantin S. Szegho, William O. Reed, and Mark E. Amdursky, Chicago, Ill., assignors to The Rauland Corporation, a corporation of Illinois

Application June 23, 1950, Serial No. 169,998

6 Claims. (Cl. 41—42)

1. In the method of making a cathode-ray tube having a glass face plate which is substantially non-reflective with respect to light from external sources and having a luminescent screen supported adjacent the inner surface of said face plate, the steps comprising: blasting the entire outer surface of said face plate with a liquid suspension of a pulverulent abrasive material; subsequently etching said entire outer surface with hydrofluoric acid; and terminating said etching step prior to the restoration of full specular reflectivity to said outer surface to render said face plate diffusely reflective to external light while permitting substantially specular transmission of light originating at said luminescent screen.

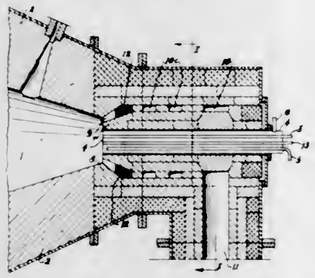
2,670,280

METHOD AND APPARATUS FOR PRODUCING COMBUSTIBLE GASES FROM POWDERED FUELS

Friedrich Totzek, Essen (Ruhr), Germany, assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

Application August 12, 1948, Serial No. 43,953

12 Claims. (Cl. 48—206)



10. A process for the production of a gas containing carbon monoxide which comprises forming a suspension of a finely-divided solid carbonaceous fuel in a free-oxygen-containing gas at a temperature below the ignition temperature of said fuel in such proportion that only a part of said fuel will react exothermically with the oxygen of said gas, introducing said suspension as a jet axially into a reaction chamber maintained at a temperature above the ignition temperature of said fuel, thereby subjecting said part of said fuel to combustion, and introducing annularly, coaxial with and surrounding said jet a stream of endothermic gasifying agent to form a continuous whirling enveloping layer of said endothermic gasifying agent between said jet and the wall of said reaction chamber.

2,670,281

STEEL SHOT FOR BLAST CLEANING, BLAST PEENING, AND THE LIKE

Thomas J. Hutchison, Jr., Nixon, Pa., assignor to American Wheelabrator & Equipment Corporation, Mishawaka, Ind., a corporation of Delaware

No Drawing. Application October 14, 1949, Serial No. 121,449

7 Claims. (Cl. 51—309)

1. Steel pellets such as used in blast cleaning, blast peening and the like, and of a size between 0.0054 to 0.156 inch diameter characterized by good roundness and solidity, freedom from dimples, and freedom from cracks and strains and having a hardness ranging between about 45 to about 65 Rockwell C classification, said pellets containing a plurality of ingredients of which the following, in the proportions stated, are the only elements necessary to obtain said characteristics: from about 0.35 up to about 1.20% carbon, from about 0.30 up to about 1.00% silicon, and suitable strengthening alloying metal selected from the group consisting of manganese 0.30 to about 2.00%, molybdenum 0.00 to about 5%, nickel from 0.0 to about 2.5%, copper from .0 to about 1.00%, and the balance iron.

2,670,282

PLANT GROWTH REGULATION

William W. Allen, Ambler, Pa., assignor to American Chemical Paint Company, Ambler, Pa., a corporation of Delaware

No Drawing. Application March 5, 1952, Serial No. 275,029

6 Claims. (Cl. 71—2.5)

1. A process of regulating the growth of plants comprising applying to a plant the compound 3-amino-1,2,4-triazole in a concentration and amount sufficient to regulate plant growth.

2,670,283

REFINING STEEL

Camille Soisson, Rodange, Luxembourg

No Drawing. Application July 17, 1951, Serial No. 237,290

Claims priority, application Luxembourg October 7, 1950

3 Claims. (Cl. 75—52)

1. The method of rapidly refining ordinary steel in a converter for transforming the same into a high quality steel of low sulfur content which comprises heating the molten steel in the converter by addition thereto of metallic aluminum and violently agitating the molten steel with a blast of air and terminating the blowing while the steel is in the reducing phase.

2,670,284

PRODUCTION OF NONFERROUS ALLOYS

Carl M. Zvanut, Alton, Ill., assignor to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware

No Drawing. Application June 28, 1950, Serial No. 170,963

2 Claims. (Cl. 75—93)

1. In the art of producing non-ferrous alloys, in which a charge of metal contaminated with gas-forming material is melted in a furnace, and a slag cover is allowed to form on the melt, the process of degassing the melt which comprises introducing graphite into the slag cover in an amount sufficient to render the slag cover discontinuous, and maintaining the slag cover discontinuous and the melt quiescent for a time sufficient to permit gases to escape from the melt.

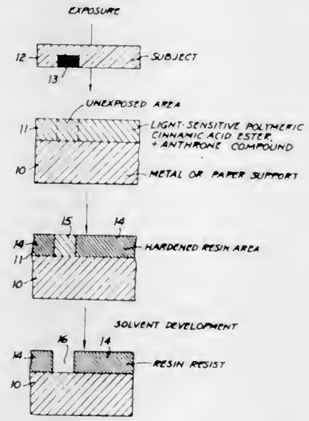
2,670,285

PHOTOSENSITIZATION OF POLYMERIC CINNAMIC ACID ESTERS

Louis M. Minsk, Werter P. Van Deusen, and Earl M. Robertson, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application January 20, 1951, Serial No. 207,049

19 Claims. (Cl. 95—7)



1. A photomechanical resist composition comprising a polymeric material selected from the group consisting of cinnamic acid esters of polyvinyl alcohol and cellulose as a combined carrier and light-sensitive material, and as a light-sensitizing agent for the composition, a compound selected from the group consisting of anthrones, benzanthrones and azabenzanthrones, free of basic nitrogen-containing substituents and hydroxyl in a position peri to an oxo group of said compound, carboxyl and sulfo groups.

2,670,286

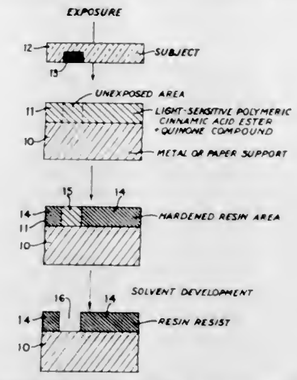
PHOTOSENSITIZATION OF POLYMERIC CINNAMIC ACID ESTERS

Louis M. Minsk, Werter P. Van Deusen, and Earl M. Robertson, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application January 20, 1951, Serial No. 207,050

26 Claims. (Cl. 95—7)

1. A photomechanical resist composition comprising a polymeric material selected from the group consisting of cinnamic acid esters of polyvinyl alcohol and cellulose as a combined carrier and light-sensitive material, and as a sensitizer for the composition, a polynuclear quinone free



of basic nitrogen-containing groups, hydroxyl, carboxyl and sulfo groups.

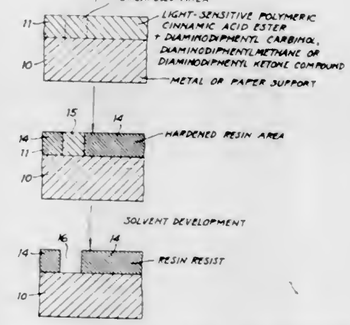
2,670,287

PHOTOSENSITIZATION OF POLYMERIC CINNAMIC ACID ESTERS

Louis M. Minsk, Werter P. Van Deusen, and Earl M. Robertson, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application January 20, 1951, Serial No. 207,051

17 Claims. (Cl. 95—7)



1. A photomechanical resist composition comprising a polymeric material selected from the group consisting of cinnamic acid esters of polyvinyl alcohol and cellulose as a combined carrier and light-sensitive material, and a compound selected from the group consisting of diaminobenzophenone imides, diaminodiphenyl methanes, diaminodiphenyl ketones, and diaminodiphenyl carbinols as a light-sensitizing agent for the composition.

2,670,288

PHOTOGRAPHIC TRACING CLOTH

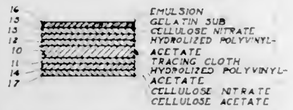
Carl F. Smith, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application November 30, 1951, Serial No. 259,189

4 Claims. (Cl. 95—8)

1. A photographic tracing cloth having improved light transmission comprising a sized

cloth base, a layer of hydrolyzed polyvinyl acetate having a vinyl acetate content of 27 to 40% on each side of the cloth base, a separate layer of cellulose nitrate over each of the hydrolyzed



polyvinyl acetate layers, a silver halide emulsion layer attached to one of the cellulose nitrate layers by a gelatin layer, and a cellulose acetate layer over the other of said cellulose nitrate layers.

2,670,289

CONDITIONING OF LIMED PEAR WASTE

Robert P. Graham, El Cerrito, George H. Neel, Albany, and Norman Fishman, Oakland, Calif., assignors to the United States of America as represented by the Secretary of Agriculture

Application June 15, 1951, Serial No. 231,886
3 Claims. (Cl. 99—2)
(Granted under Title 35, U. S. Code (1952), sec. 266)

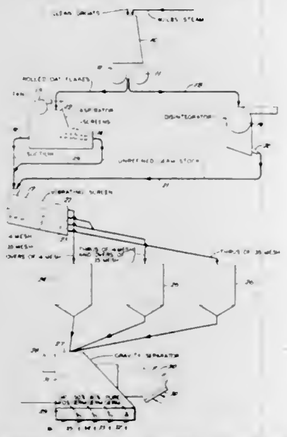
1. A continuous process for treating pear waste which comprises continuously feeding a mixture of pear waste and lime into a treatment zone wherein it is subjected to repeated division and subdivision by cutting action, such treatment being continued until the mixture has passed through the gel stage and is reduced to an easily filterable composition of clear juice and small particles of gelled material containing enmeshed finely-divided material, heating this composition, then separating the juice from the solid components of the mixture.

2,670,290

PROCESS FOR RECOVERY OF OAT GERM FROM OATS

William F. Hanser, Cedar Rapids, Iowa, assignor to National Oats Company, Cedar Rapids, Iowa, a corporation of Illinois

Application March 14, 1952, Serial No. 276,639
6 Claims. (Cl. 99—80)



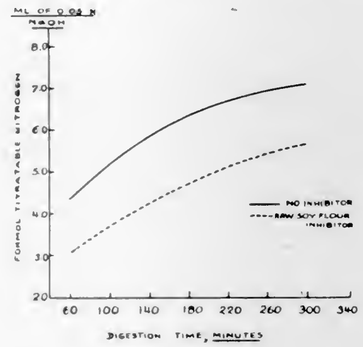
1. A process for the recovery of oat germ from oats, comprising steaming and flaking hulled oats, cooling and screening the flaked oats, passing the separated germ stock containing flake fragments through a series of screens, separating the germ stock and flake fragments into a plurality of sized fractions, passing said fractions separately over an air screen having a velocity sufficient to float said fragments while leaving the germ upon the screen, and recovering the germ material remaining on said screen separately from the floated material.

2,670,291

PROTECTION OF FOOD AGAINST PROTEIN DEGRADATION

Daniel Melnick, West Englewood, N. J.

Application August 24, 1950, Serial No. 181,254
20 Claims. (Cl. 99—91)
(Granted under Title 35, U. S. Code (1952), sec. 266)



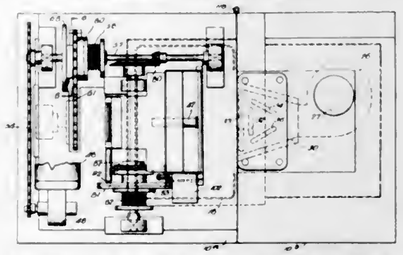
2. The method of retarding protein degradation in heat-processed farinaceous food made from a dough, comprising including in said dough, prior to final heat-processing, an anti-proteolytic aqueous extract of a legume being a member of the group consisting of soya and phaseolus, from which a protein fraction has been removed by precipitation at a pH between about 3.8 and about 5, said legume extract being free from crude legume fiber, and being added in an amount, per 100 weight units of the flour component of said dough, equivalent in antiproteolytic activity to that of at least 5 weight units of raw soy flour.

2,670,292

METHOD OF ROASTING NUTS AND THE LIKE

Cherry L. Emerson, Jr., Newton Highlands, and William R. Cuming, Boston, Mass., assignors to Electricooker, Inc., Newburyport, Mass., a corporation of Massachusetts

Application September 15, 1950, Serial No. 185,006
8 Claims. (Cl. 99—126)



1. A method of roasting nuts in heated air in a closed chamber, which consists in heating the air in the chamber to nut cooking temperature, depositing into the chamber a batch of nuts at relatively lower temperature whereupon the chamber air temperature drops substantially, compensating for said temperature drop by applying progressively increasing increments of heat to the air in the chamber as the temperature thereof drops, and progressively decreasing the supply of heat to the air as the temperature thereof rises from the minimum.

2,670,293

FOOD PRODUCT FLAVORING COMPOSITION AND METHOD OF PREPARATION THEREOF

Fortney H. Stark, Wauwatosa, Wis.

No Drawing. Application December 26, 1950, Serial No. 202,807
17 Claims. (Cl. 99—140)

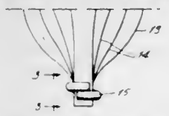
1. A food product additive comprising a flavoring material and a colloidal cheese carrier having a continuous phase and a discontinuous phase comprising suspended fat on which the said flavoring material is homogeneously adsorbed, the flavoring material and cheese carrier being present in such relative proportions that only the flavor of the flavoring material is separately perceptible, the cheese flavor being wholly obscured.

2,670,294

METHOD OF SEALING SAUSAGE CASINGS AND PRODUCT THEREOF

Joseph James Frank, Union, N. J.

Application February 4, 1950, Serial No. 142,490
9 Claims. (Cl. 99—176)



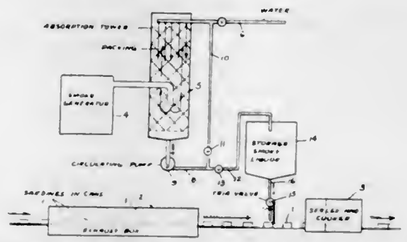
1. A flexible casing with a constricted end sealed by a flattened winding of stiff wire coated with softer, flexible protective plastic, the total thickness of the coated wire being on the order of three times the thickness of the wire.

2,670,295

PROCESS FOR SMOKING AND CANNING FISH

Charles S. Ash, San Francisco, Calif.

Application March 28, 1949, Serial No. 83,902
6 Claims. (Cl. 99—188)



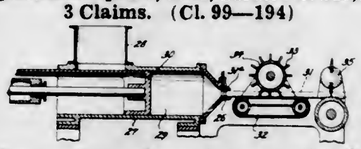
1. The process of smoking and canning whole delicate fish and fish fillets substantially without breakage thereof that comprises the steps of: hermetically sealing said fish in unbroken condition within a can together with a liquid smoke carrier in which smoke has been absorbed and then re-volatilizing the smoke that is in said carrier by subjecting the canned fish and carrier while so sealed to sufficient heat to cause said smoke to re-volatilize, whereby the volatilized smoke within the can will permeate the sealed fish and will smoke the same.

2,670,296

METHOD OF PRODUCING QUICK-FREEZING AND QUICK-COOKING MEAT PATTIES

Leslie R. Tansley, Worthington, Ohio, assignor to White Castle System, Inc., Columbus, Ohio, a corporation of Delaware

Application April 9, 1951, Serial No. 219,999
3 Claims. (Cl. 99—194)



1. The method of producing quick-freezing and quick-cooking meat patties which comprises extruding ground meat under pressure to form a substantially homogeneous, compact column of meat; forming in the intermediate region of said column at least one opening which extends completely therethrough; and severing said column transversely to form a plurality of relatively thin flat-sided meat patties, each having an opening extending completely therethrough from side to side thereof.

2,670,297

METHOD FOR THE PRODUCTION OF A FIRE RETARDANT SOLUTION

Roy Dahlstrom, Westfield, and George E. Bronson, Matawan, N. J., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application May 31, 1951, Serial No. 229,274
5 Claims. (Cl. 106—15)

1. Method for the preparation of a stable solution capable of imparting fire resistance to a cellulosic material which comprises forming a mixture of water, hydrochloric acid and antimony trioxide and an organic acid selected from the group consisting of acetic acid and formic acid, and to said mixture subsequently adding substantially anhydrous titanium tetrachloride, meanwhile maintaining the temperature of said mixture between 30 and 50° C. during the addition of said titanium tetrachloride, said organic acid being added in an amount from 0.3 to 0.94 part by weight of organic acid for each part by weight of titanium tetrachloride, said antimony trioxide being added in an amount by weight from 0.46 to 0.79 part of antimony trioxide for each part by weight of titanium tetrachloride, said hydrochloric acid and said titanium tetrachloride being added in amount to give 0.16 part by weight of chloride, calculated as hydrochloric acid for each part by weight of antimony trioxide, and from 0.19 to 0.58 part by weight of chloride calculated as hydrochloric acid for each part by weight of titanium calculated as titanium tetrachloride and adding water in an amount to maintain in the final solution a concentration of between 120 and 160 grams of titanium per liter of solution.

2,670,298

PROCESS OF MANUFACTURING A CELLULAR MATERIAL

Axel Frokjaer-Jensen, Charlottenlund, and Alfred Herman Munch Andreasen, Gentofte, Denmark

No Drawing. Application July 28, 1950, Serial No. 176,522. In Denmark May 24, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires May 24, 1961
6 Claims. (Cl. 106—40)

1. A process for the manufacture of a product having a cellular structure, said process consist-

ing essentially of uniformly distributing in an argillaceous material ¼ of 1% to about 4%, by weight on a dry basis, of a member selected from the group consisting of sulfite and sulfate lyes, uniformly baking the resulting mixture at the softening temperature of the material, whereby the material softens and gas is produced in the material causing it to bloat under formation of a cellular structure and then cooling the resulting bloated material.

2,670,299

METHOD OF MANUFACTURING A CELLULAR MATERIAL

Axel Frokjaer-Jensen, Charlottenlund, and Alfred Herman Munch Andreasen, Gentofte, Denmark

No Drawing. Application July 28, 1950, Serial No. 176,521. In Denmark May 24, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires May 24, 1961
6 Claims. (Cl. 106—41)

1. A process for the manufacture of a product having a cellular structure, said process consisting essentially of uniformly distributing in an argillaceous material ¼ of 1% to about 4%, by weight on a dry basis, of a member selected from the group consisting of molasses and molasses residue, uniformly baking the resulting mixture at the softening temperature of the material, whereby the material softens and gas is produced in the material causing it to bloat under formation of a cellular structure, and then cooling the resulting bloated material.

2,670,300

COLOR STABLE PORCELAIN ENAMEL AND METHOD OF PRODUCING SAME

Gordon H. Johnson and Joseph F. Wuellner, Cleveland, Ohio, assignors to Ferro Corporation, a corporation of Ohio

No Drawing. Application January 4, 1951, Serial No. 204,474
5 Claims. (Cl. 106—48)

1. A porcelain enamel which is substantially color-stable over a firing range which comprises a porcelain enamel containing from about 10% to about 20% of titanium dioxide opacifier, an amount of chrome-bearing material which contains an equivalent of from about 0.03% to about 1.0% of Cr_2O_3 and from about 0.1% to about 10% of a pigment containing chrome.

2,670,301

REFRACTORY BODIES AND COMPOSITIONS AND METHODS FOR MAKING THE SAME

Kenneth C. Nicholson, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware

No Drawing. Application July 17, 1951, Serial No. 237,284
18 Claims. (Cl. 106—57)

1. A refractory body consisting essentially of zirconium, boron and calcium, a predominant portion of the zirconium and boron being in the form of crystalline zirconium boride.

2,670,302

STABILIZED CELLULOSE ESTER COMPOSITION AND PROCESS OF PREPARING IT

Carl J. Malm and Robert F. Williams, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application November 15, 1949, Serial No. 127,515
14 Claims. (Cl. 106—176)

1. A stable cellulose ester composition comprising a lower fatty acid ester of cellulose containing sulfur only in the form of sulfur acid radicals in neutralized condition and a stabilizing quantity of a gylcidyl ether containing only C, H, and O, boiling within the range of 140–385° C. and showing no decomposition at a temperature of 200° C.

2,670,303

WATER-REPELLING COMPOSITION

Norman G. Mallander, Racine, Wis., assignor to S. C. Johnson & Son, Inc., Racine, Wis.

No Drawing. Application September 8, 1950, Serial No. 183,917
8 Claims. (Cl. 106—271)

1. A solution for rendering fabric water-repellent, consisting essentially of from 1 to 10% by weight of a material selected from the group consisting of petroleum waxes and polymerized octadecyl vinyl ether from .1% to 3% of an alkoxide selected from the group consisting of aluminum and zirconium alkoxides having from 3 to 18 carbon atoms and a volatile liquid hydrocarbon solvent, said solvent constituting the major portion by weight of said solution.

2,670,304

MANUFACTURE OF BITUMINOUS EMULSIONS

Paul E. McCoy, San Francisco, Calif., assignor, by mesne assignments, to American Bitumuls & Asphalt Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 30, 1950, Serial No. 193,027
11 Claims. (Cl. 106—277)

1. The process of incorporating an electrolyte in a quick-breaking oil-in-water type bituminous emulsion meeting A. S. T. M. specifications D–401, which comprises adding said electrolyte to a hot preformed quick-breaking oil-in-water type bituminous emulsion meeting A. S. T. M. specifications D–401, and then subjecting the so-treated emulsion, while still hot, to a high-speed grinding, shearing action and vigorous agitation, whereby the electrolyte-treated emulsion remains stable during storage and handling.

2,670,305

METHOD OF MAKING FILTER MATERIAL

William J. Wiswesser, Kutztown, Pa., assignor to Wilson Products, Inc., Reading, Pa., a corporation of Pennsylvania

Application March 26, 1951, Serial No. 217,497
6 Claims. (Cl. 117—4)

1. The method of treating felt to considerably increase its air filtering quality, comprising forming the felt into a plurality of small sheets of length approximating the width thereof, impregnating the sheets with a solution of organic solvent and a resin which becomes frangible when dried, spinning said sheets at high speed and thereby removing most of the resin solution by centrifugal force and subjecting said sheets to a drying atmosphere to effect drying thereof, agitating and continuously beating said dried sheets while in loose, crumpled condition until the resin contained therein is finely divided into exceedingly small particles that become lodged in the interstices and considerably increase the air filtering efficiency, and finally cutting said sheets into sizes and shapes desired as filters.

2,670,306

PRESSURE SENSITIVE ADHESIVES CONTAINING GRAPHITE

John H. Folwell, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application January 25, 1951, Serial No. 207,850
1 Claim. (Cl. 117—122)

A pressure sensitive adhesive tape comprising a black backing carrying a black pressure sensitive adhesive coating, the coating containing a resin, a substance of the rubber type selected from the group consisting of natural rubber, butadiene-styrene copolymer, and polyisobutylene, and from 2.5% to 25%, calculated on the total solids, of powdered graphite.

2,670,307

RESILIENT FLOOR AND WALL TILE AND METHOD OF PREVENTING OBJECTIONABLE CURLING THEREOF

Donald W. Moore, Lancaster, and Alonzo H. Searl, Lancaster Township, Lancaster County, Pa., assignors to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application February 24, 1950, Serial No. 145,928
6 Claims. (Cl. 117—138.8)

1. A method of preventing objectionable curling of moisture-absorbent, resilient floor and wall tiles composed of a composition comprising filler particles and a binder of plasticized coumarone-indene resin, which tiles tend to curl when subjected to contact with moisture on the back surface thereof and curl objectionably when they are installed and come into contact with moisture on the back surface, comprising providing flat tiles of said composition free of objectionable curling, coating the back surface of the tiles with a solution of coumarone-indene resin in a solvent which has a solvent action on the coumarone-indene resin binder for the tiles, and drying the coating to provide a water-impervious coumarone-indene resin film on the back surface of the tiles and penetrating below the surface thereof, whereby objectionable curling of the tiles will be prevented upon contact with moisture on the back surface.

2,670,308

MICROGROOVE POLYSTYRENE PHONOGRAPH RECORD

Frazier Groff, Plainfield, and Howard D. Bassett, Bound Brook, N. J., assignors to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application April 27, 1950, Serial No. 158,592
3 Claims. (Cl. 117—138.8)

2. Microgroove record comprising a playing surface of polystyrene having an average molecular weight between 50,000 and 80,000 and less than 3% by weight of methanol soluble matter and dispersed in said polystyrene between 2 and 10% by weight thereof of natural wax, said record having a thin coating on its playing surface comprising a water-soluble agent selected from the group consisting of glycerol, polyglycerol and polyethylene glycols, the coating in the record grooves being between about 0.0001 and 0.0005 inch thickness.

679 O. G.—66

2,670,309

METAL-WORKING PROCESS AND PRODUCT

Thomas I. McClintock, New Kensington, Pa., and Alvin L. Hurst, Lafayette, Ind., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application July 3, 1950, Serial No. 172,014
11 Claims. (Cl. 148—11.5)

1. The process of producing aluminous metal extrusions having low temperature recrystallization characteristics when cold worked comprising providing a body consisting essentially of aluminum, a total of 0.01 to 0.8% iron and silicon impurities, the amount of iron not exceeding 4/3 of the silicon content, and an element selected from the group composed of 0.005 to 0.25% beryllium and 0.04 to 1% nickel, heating said body to a temperature between 850 and 950° F., holding said body at said temperature for a period of 1 to 12 hours, cooling said body to a temperature between 500 and 650° F. at a controlled rate not exceeding 50° F. per hour, holding said body within said temperature range for a period of 1 to 12 hours, and thereafter extruding it at a temperature between 400 and 550° F.

2,670,310

QUENCHING STEEL

Michael W. Freeman, Detroit, Mich.

No Drawing. Application December 13, 1946, Serial No. 716,175
17 Claims. (Cl. 148—18)

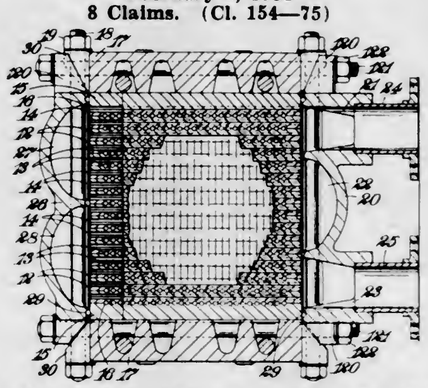
1. The method of hardening steels which are hardenable by heating and quenching which comprises heating such steel to a temperature above its critical temperature and quenching such heated steel by immersion in a quenching liquid medium containing a minor amount of an organic sulfonate the quenching medium being selected from the group consisting of oil, water, and oil-water emulsions.

2,670,311

METHOD OF MAKING A HEAT EXCHANGER

William Stephens Norman, Chester, and Charles Henry Victor Sawyer, Hayes, England, assignors to C. D. Patents Limited, London, England, a British company

Application June 1, 1951, Serial No. 229,306
Claims priority, application Great Britain February 2, 1951
8 Claims. (Cl. 154—75)



1. A method of making a heat exchanger of the type in which the heat exchanger body is of carbon and has first rows of parallel passages for one heat exchange fluid and adjacent second rows

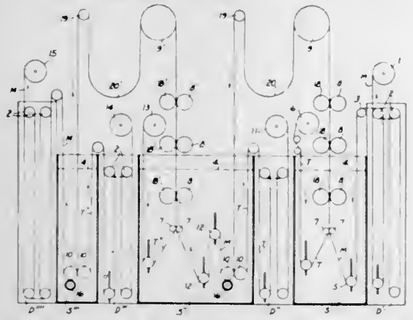
of parallel passages for another heat exchange fluid, the direction of the first rows crossing the direction of the second rows, which heat exchanger body comprises an assembly of a plurality of contacting carbon plates and has said passages provided by parallel grooves in the plates, said method comprising the steps of clamping the assembled carbon plates between two cover plates at a pressure not substantially greater than that necessary to hold the carbon plates in position, placing the assembly in a container and evacuating the container, immersing the carbon plates within the container in a resin in liquid state, applying pressure within the container thereby impregnating the carbon plates with the resin, draining excess resin from the assembly, raising the pressure between the cover plates and the assembled carbon plates and thereafter curing the resin, thereby bonding the carbon plates together.

2,670,312

APPARATUS AND METHOD FOR MOTION-PICTURE COLOR PHOTOGRAPHY

John G. Capstaff, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application August 24, 1950, Serial No. 181,222
Claims priority, application France August 31, 1949
6 Claims. (Cl. 154—98)



1. The process of transferring successively to two separate unsensitized transfer films two emulsion layers from a multilayer film having a plurality of emulsion layers thereon separated by adhesive interlayers by an operation which comprises submitting the multilayer film to a bath which softens the topmost interlayer and renders the uppermost emulsion layer adhesive, pressing the first transfer film into contact with the multilayer film and securing these in registration until the top emulsion layer is firmly adherent to the transfer film, and then stripping the transfer film with the topmost emulsion layer adhering thereto from the multilayer film, characterized by performing the stripping operation while the films are submerged in a bath and without removal of the stripped multilayer film from the bath passing the latter film to the next station at which it is pressed, while still submerged, into contact with the second transfer film.

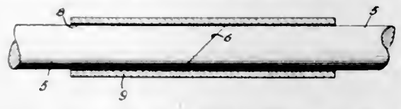
2,670,313

METHOD OF MAKING A RING OF A LENGTH OF THERMOPLASTIC MATERIAL

Richard E. Young, Rockville Centre, N. Y.

Application January 19, 1951, Serial No. 206,793
2 Claims. (Cl. 154—116)

1. The method of making a ring of substantially uniform cross sectional shape and area throughout its circumference from a solid rod of thermoplastic material, which comprises cutting said rod to conform to the desired diameter of said ring, inserting the opposite ends of said rod into the opposite ends of an open-ended substantially straight die bore slightly larger in cross sectional area and conforming to the cross sectional shape of said rod, bringing said ends into abutting relation with each other, locally heating said abutting ends of said rod to a fusing temperature at said abutting ends and to provide a temperature gradient providing unmelted solid portions of both of said rod ends within said bore, simultaneously with said local heating applying pressure endwise through said unmelted solid portions against the fusing abutting ends to effect pressure fusion of said abutting ends and to expand the fused material at said abutting ends to the full diameter of said bore, permitting said fused mating ends to cool and to shrink to the cross sectional area of the unmelted portions of said rod, and removing the ring from said bore.

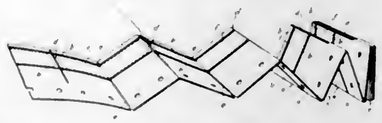


2,670,314

METHOD FOR MAKING HONEYCOMB CORES FOR SANDWICH TYPE STRUCTURES

Gustave A. Ungar, New Rochelle, N. Y.; Irma Ungar, administratrix of said Gustave A. Ungar, deceased, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.

Application March 18, 1948, Serial No. 15,708
18 Claims. (Cl. 154—117)



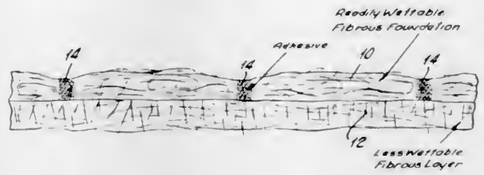
1. Method for the continuous production of a core for sandwich-type structures from an elongate web of material being fed continuously which comprises scoring said web on both sides with a series of longitudinal scores in pairs, the pairs of scores on one side being located midway between the pairs of scores on the other side; slotting said web with a series of parallel transverse rows of slots, the slots of any row being staggered with respect to slots of adjacent rows, and the slots of every other row being separated by the space between pairs of scores on one side of said web and the slots of the other rows being separated by the space between pairs of scores on the other side of said web; applying on both sides of said web longitudinal stripes of adhesive between each pair of scores thereon; continuously pleating the advanced portion of said web by bending it in alternate directions at each alternate row of slots; continuously backing up the pleats so formed, one upon another, by retarding their rate of travel relative to that of the unpleated portion of said sheet; causing the pressing of said pleats upon one another by still further retarding their rate of travel, thereby bonding within each pleat one portion of each of the stripes of adhesive to another portion thereof; and increasing the rate of travel of the compressed, interruptedly bonded pleats to separate the unbonded portions thereof, thereby expanding the pleats into a honeycomb-like structure.

2,670,315

METHOD OF MAKING NONWOVEN FABRIC

Don K. Rider, Plainfield, N. J., assignor to Chicopee Manufacturing Corporation, a corporation of Massachusetts

Application March 31, 1949, Serial No. 84,637
3 Claims. (Cl. 154—122)



1. The method of making fabric which comprises assembling a layer of relatively wettable fibers and a second layer of less wettable textile fibers, rendering the second layer temporarily wettable by applying an aqueous dispersion of a wetting agent, saturating binding areas of both layers with an aqueous adhesive and evaporating the water in the dispersion of the wetting agent to provide a fabric having a relatively wettable layer of fibers on one surface and a layer of less wettable fibers on the other surface.

2,670,316

PROCESS FOR THE PRODUCTION OF FIBROUS WEBS

John Allan and Edward Boaden Thomas, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain

No Drawing. Application July 18, 1950, Serial No. 174,586
Claims priority, application Great Britain July 22, 1949
2 Claims. (Cl. 154—136)

1. Process for the production of fibrous webs from which laminates of high impact strength and low water absorption can be made by bonding layers of the web together under heat and pressure, which comprises impregnating a fibrous web of material selected from the class consisting of cellulose and regenerated celluloses of fibre-tenacity at least 3 grams per denier, first with a water-soluble, thermosetting synthetic resin, and then with a water-insoluble, alcohol-soluble, thermosetting synthetic resin, both synthetic resins being condensation products of a phenol having at least 3 reactive positions with a molar excess of formaldehyde.

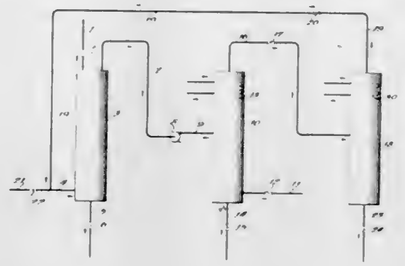
2,670,317

EXTRACTION OF OLEAGINOUS MATERIALS FROM SOLID SUBSTANCES

George F. Adams, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application May 27, 1949, Serial No. 95,753
4 Claims. (Cl. 196—14)

1. A process for extracting oil and asphalt from a solid material containing the same, which comprises contacting the solid material with a liquefied normally gaseous hydrocarbon solvent at approximately atmospheric pressure and at about the atmospheric boiling point of the solvent to dissolve oil and asphalt in the solvent, separating the resultant solution from the solid material, heating said solution under pressure to precipitate asphalt therefrom and recovering the precipitated asphalt, further heating the remaining solution of oil and solvent under pressure to at least the critical temperature of said solvent to form a liquid oil phase and a liquid solvent phase, and separating said phases from each other.

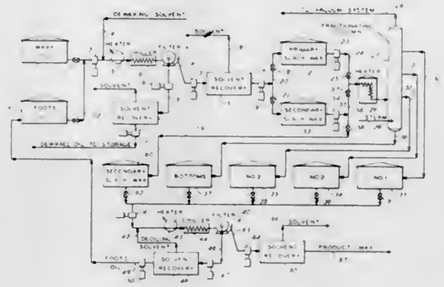


2,670,318

WAX-OIL SEPARATION PROCESS

Charles J. Halamka, Richmond, and Lynn R. La Porte, El Cerrito, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application January 6, 1951, Serial No. 204,806
4 Claims. (Cl. 196—17)



1. The process of segregating a waxy lubricating oil stock into dewaxed lubricating oil components of low pour point and improved oil-free waxes comprising the steps of solvent dewaxing said waxy oil stock to produce a substantially wax-free oil and a primary slack wax, fractionating said primary slack wax into a plurality of relatively narrow-boiling primary wax distillates including a low boiling distillate which on deoiling yields a wax with an average melting point in the range of 125–140° F. AMP, solvent-deoiling a primary wax distillate of intermediate boiling range to produce a substantially oil-free wax and a foots oil, solvent-dewaxing said foots oil from the intermediate wax distillate to produce a secondary dewaxed lubricating oil component and a secondary slack wax, combining at least a substantial portion of said secondary slack wax with said low boiling primary wax distillate in a ratio of 20 to 35 volumes of said secondary slack wax to 80 to 65 volumes of said primary wax distillate, and solvent-deoiling said mixture of secondary slack wax and primary wax distillate to produce a low melting wax of superior properties.

2,670,319

PREVENTING THE DEVELOPMENT OF SOURNESS IN CERTAIN PETROLEUM LIQUIDS DURING DISTILLATION

George W. Ayers, Chicago, Marcellus J. Geerts, Evanston, and Robert E. Chandler, Algonquin, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application April 14, 1950, Serial No. 156,036
10 Claims. (Cl. 196—29)

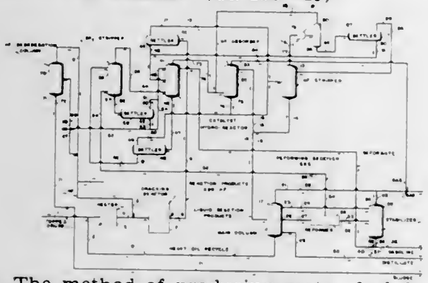
1. A method for inhibiting the increase in mercaptan content of light petroleum distillates containing organic sulfur compounds including disulfides during heating thereof comprising the heating in the presence of a small amount of a relatively stable organic peroxide selected from the group consisting of tertiary butyl hydroperoxide and benzoyl peroxide at temperatures conducive to organic disulfide decomposition but below those temperatures at which the said disulfides decompose in the presence of said peroxides.

2,670,320

CONVERSION OF HYDROCARBONS WITH A HF CATALYST, THE REFORMING OF THE GASOLINE FRACTION AND THE REGENERATION OF THE HF WITH HYDROGEN FROM THE REFORMING ZONE

Louis S. Kassel, Oak Park, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application June 30, 1950, Serial No. 171,498
17 Claims. (Cl. 196—49)



1. The method of producing motor fuel from a hydrocarbon oil heavier than gasoline which comprises contacting said oil with a catalyst comprising hydrogen fluoride at cracking conditions, recovering substantially catalyst-free gasoline boiling range hydrocarbons from the reaction products, reforming at least a portion of said hydrocarbons under conditions that result in a net production of hydrogen, and treating at least a portion of the used catalyst with at least a portion of said hydrogen under conditions to at least partially restore the activity thereof.

2,670,321

CONVERSION OF HYDROCARBONS WITH AN ACTIVE SILICA COMPOSITED CATALYST MIXTURE

Jacque C. Morrell, Merion, Pa.

No Drawing. Application March 3, 1949, Serial No. 79,527
11 Claims. (Cl. 196—50)

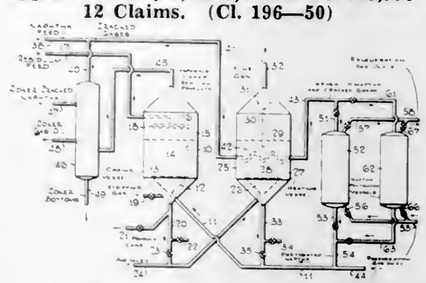
1. A process for the conversion of higher boiling to lower boiling hydrocarbons of high octane value and suitable for motor fuel which comprises subjecting the said hydrocarbons to conversion conditions of temperature and space velocities in the presence of a composited catalyst comprising an intimate and integrated mixture of active silica and active titanium oxide and a dehydrogenating component of an oxide in the physical state of a gel selected from the group consisting of the active oxides of chromium, molybdenum and vanadium, the said oxides consisting of more than 1% and less than 10% of the mixture.

2,670,322

NAPHTHA REFORMING PROCESS

Robert W. Krebs and Alexis Voorhies, Jr., Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application May 1, 1951, Serial No. 223,996
12 Claims. (Cl. 196—50)



1. A process for naphtha improvement which comprises pretreating a naphtha with olefinic cracked gases in contact with a hydrogen transfer catalyst under hydrogen transfer conditions, passing the treated naphtha in admixture with finely divided hot inert contact solids into a coking zone where the inert contact solids are maintained as a dense fluidized bed having a level, spraying a residuum into the coking zone above said dense bed and converting the residuum to volatile products and coke, recovering olefinic cracked gases from the vaporous reaction products and recycling the recovered olefinic cracked gases to said naphtha pretreating step.

2,670,323

LOW MELTING PARAFFIN WAX

Melvin V. Hunter, Richmond, and John R. Segesser, El Cerrito, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application January 6, 1951, Serial No. 204,816
6 Claims. (Cl. 196—149)

1. A substantially oil-free paraffin wax composition having an average melting point within the range of 125–135° F. A. M. P. which consists essentially of at least 20% but less than 35% of non-straight-chain distillate paraffin waxes having molecular weights predominately in the range of 350–525 and the remainder being straight-chain distillate paraffin wax having an average melting point within the range of 127–140° F. A. M. P. and an average molecular weight substantially below that of said non-straight-chain wax.

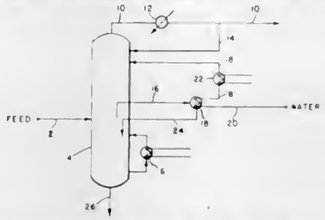
2,670,324

EXTRACTIVE DISTILLATION PROCESS

Howard Grekel, Benjamin S. Pace, and John D. Ireland, Tulsa, Okla., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application October 28, 1949, Serial No. 124,228
5 Claims. (Cl. 202—39.5)

5. In a process for effecting separation of methyl ethyl ketone from an aqueous mixture of ethanol by means of extractive distillation of water in a column having a stripping and a washing section therein whereby the relative volatilities of the aforesaid ketone and alcohol are modified, the improvement which comprises independently adjusting the liquid to vapor ratios of the aforesaid compounds within said sections and increasing the relative volatilities



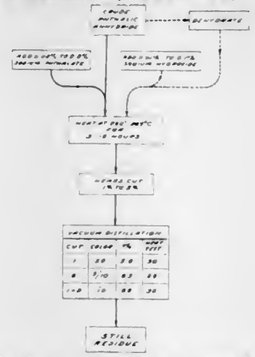
of said ketone and alcohol in said sections by condensing a portion of the vapors present in the column substantially at the point of the feed inlet.

2,670,325

DISTILLATION PURIFICATION OF PHTHALIC ANHYDRIDE

Herbert J. West, Pittsburgh, and Kenneth Goodemoot, Bridgeville, Pa., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application July 14, 1951, Serial No. 236,726
3 Claims. (Cl. 202—57)



1. A method of removing color-forming and odor-forming impurities from crude undistilled phthalic anhydride converter product containing said impurities which comprises heating said undistilled phthalic anhydride converter product at approximately the boiling point thereof for about 3 to 12 hours in the presence of catalytic quantities only of alkali metal phthalate and subjecting the resulting mixture to a fractional distillation including the separate removal of a heads cut relatively rich in benzoic acid, said distillation including passing the vapors of said mixture upwardly in countercurrent contact with a reflux of liquid phthalic anhydride and withdrawing a portion of the overhead distillate so treated as a main cut composed of commercially pure phthalic anhydride.

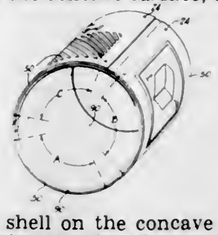
2,670,326

PRODUCING CURVED ELECTROTYPES

George W. Bungay, New York, N. Y., asssignor to Electrographic Corporation, New York, N. Y., a corporation of Delaware

Application September 20, 1950, Serial No. 185,792
6 Claims. (Cl. 204—6)

1. A process of forming cylindrically curved electrotypes which comprises molding a plurality of flexible electrotype molds from one or more flat printing plates to be duplicated as curved electrotypes, joining said molds together along adjacent edges of separate plates, cylindrically curving said molds with the design surface of the molds as the concave surface, electrodepositing a metal shell on the concave surface of the molds, stripping the shell from the molds, forming the shell into a cylinder of the desired diameter, backing the shell, and severing the backed shell into a plurality of cylindrical plates.



2,670,327

ELECTROLYTIC LIQUID TREATING DEVICE

Clarence M. Rader, San Marino, Calif.

Application May 26, 1950, Serial No. 164,491
1 Claim. (Cl. 204—248)



An electrolytic device comprising: a central rod-like member formed by a helical spring, alternate disks of copper and of zinc strung on said member, tubular metallic spacers also strung on said member between contiguous faces of said disks; and stop means at the opposite ends of said member, said stop means engaging opposite ends of the assembly on said member of said disks and spacers to place said helical spring in stretched condition whereby said spring holds said assembly with the contiguous faces of the disks and spacers in intimate contact with each other, in spite of said assembly decreasing in length due to erosion of said disks and spacers by electrolytic action, said spacers being of relatively small diameter to permit said device to flex sharply whereby it will readily pass around sharp turns in a pipe through which it is extended.

2,670,328

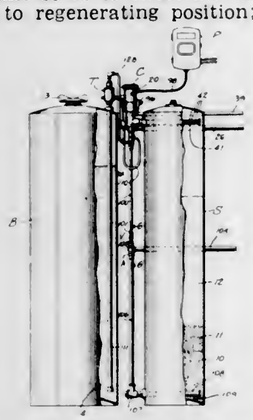
WATER SOFTENING APPARATUS

Francis H. Webb, Pasadena, Calif.

Application September 24, 1949, Serial No. 117,524
2 Claims. (Cl. 210—24)

1. Automatic water softening apparatus comprising: a softener tank having a hard water inlet and a soft water outlet; a sealed brine tank; a valve body having a hydraulic cylinder; a piston working in said cylinder and having a stem; two valves fixed to said stem for movement by the piston to occupy a service position or a regenerating position; one of said valves, when in service position, connecting said hard water inlet to a source of hard water under pressure for the

flow of water through the softener tank to a service line; the other of said two valves, when in regenerating position, connecting the brine tank to the soft water outlet to force brine in a counterflow direction through the softener tank; an inlet valve controlling the admission of water to said cylinder; means operatively connected to said inlet valve to open same for a predetermined period of time so as to effect movement of said two valves to regenerating position; means re-



storing said two valves to service position when said predetermined time interval has elapsed; a timing device through which brine is delivered from said other of said valves to the softener tank for only a predetermined portion of the regenerating period; and means including a third valve fixed to said stem, through which the counterflow of rinsing water from said one of said two valves through the softener tank is effected during the remaining portion of the regenerating period.

2,670,329

DRILLING MUDS AND METHODS OF USING SAME

Rufus V. Jones, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application August 3, 1950, Serial No. 177,573

19 Claims. (Cl. 252—8.5)

1. A water base drilling mud composition comprising, in combination, sufficient water to maintain the mud as a fluid, sufficient clayey material to form a filter cake on the wall of the well and a water-soluble substituted chitin selected from the group consisting of the water-soluble salts of chitin sulfate, carboxymethylchitin and carboxyethylchitin in an amount sufficient to reduce the water loss due to filtration through said filter cake without increasing the viscosity of said drilling fluid to such an extent that it cannot be circulated.

18. A process for preparing a cyanoethylchitin ether which comprises reacting alkali chitin with an amount of acrylonitrile within the range of 0.5 to 3 parts by weight per part of said alkali chitin at a temperature within the range of 20 to 120° F.

2,670,330

CUTTING OILS

Dayton P. Clark, Jr., Somerville, N. J., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application September 29, 1950, Serial No. 187,691

7 Claims. (Cl. 252—46.7)

1. A petroleum base cutting oil composition consisting essentially of a stable solution of flowers of sulfur and a phosphatide in a mineral oil having an aniline point below about 85° C., said solution containing a greater amount of dissolved sulfur than can be dissolved in the mineral oil in the absence of said phosphatide.

2,670,331

MAGNESIUM-ZINC CERAMIC FERRITE CONTAINING COPPER

Ernst Albers-Schoenberg, Metuchen, N. J., assignor to Steatite Research Corporation, Keasbey, N. J., a corporation of Delaware

No Drawing. Application September 28, 1951, Serial No. 248,889

6 Claims. (Cl. 252—62.5)

1. A ferromagnetic body of high permeability properties consisting primarily of the components ZnO, MgO and Fe_2O_3 the ratio of the total mol proportion of ZnO and MgO to Fe_2O_3 being between 1:.9 and 1:1.1, the mol proportion of ZnO:MgO being from 3:4 to 4:3 and containing in addition from 1.5 to 8% by weight of copper oxide, and from 0 to 2% by weight of lithium oxide.

2,670,332

OIL-IN-WATER COAL TAR EMULSION AND PROCESS OF MAKING IT

Paul E. McCoy, Oakland, and Carl E. Neill, El Cerrito, Calif., assignors, by mesne assignments, to American Bitumuls & Asphalt Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application August 21, 1951, Serial No. 242,988

11 Claims. (Cl. 252—311.5)

2. An oil-in-water type emulsion of high electrolytic and storage stability and compatible with fortifying synthetic rubber comprising by weight 10 to 80 parts of at least one bitumen selected from the group consisting of coal tar and coal tar pitch, 1 to 10 parts lignin emulsifying agent, 0.1 to 1 part thickening agent, caustic in sufficient amount to give a pH of at least 7.5 but less than 10, and sufficient water to make a total of 100 parts.

2,670,333

PROCESS FOR THE MANUFACTURE OF NEW POLYALKYLIDENES BY CONDENSATION OF DIAZOALKANES

Neil Hunter Ray, Northwich, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application April 4, 1952, Serial No. 280,663

Claims priority, application Great Britain April 12, 1951

5 Claims. (Cl. 260—2)

1. Process for the manufacture of flexible, tough, high molecular weight, branched chain hydrocarbons which comprises condensing diazomethane and a minor molecular proportion of at least one higher diazoalkane in presence of an ester of boric acid as catalyst.

2,670,334

ANION-EXCHANGE RESINS FROM AMINATED ARYL ACETYLENE

Gaetano F. D'Alelio, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware

No Drawing. Application November 6, 1952, Serial No. 319,171

20 Claims. (Cl. 260—2.1)

1. A water-insoluble resin containing a plurality of quaternary ammonium hydroxy groups, said groups being attached to an insoluble, infusible resin prepared by the polymerization of a polymerizable mass comprising a polymerizable aryl acetylene hydrocarbon compound, said groups being represented by the formula

$$—NR_3OH$$

in which R is a member of the class consisting of alkyl and aralkyl groups.

2,670,335

ANION-EXCHANGE RESINS FROM AN AMINATED ALKYLENE ARYL ACETYLENE

Gaetano F. D'Alelio, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware

No Drawing. Application November 6, 1952, Serial No. 319,172

20 Claims. (Cl. 260—2.1)

1. A water-insoluble resin containing a plurality of groups of the formula —A—NR_3OH in which A is an alkylene group and R is a member of the class consisting of alkyl and aralkyl groups, said groups being attached to an insoluble, infusible resin prepared by the polymerization of a polymerizable mass comprising a polymerizable aryl acetylene hydrocarbon.

2,670,336

POLYHYDRIC ALCOHOL COMPOSITIONS CONTAINING AN ALKALI SALT OF A SULFONATED ALKENYL AROMATIC RESIN

Harold H. Roth, Bay City, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application June 8, 1951, Serial No. 230,694

17 Claims. (Cl. 260—29.6)

1. A substantially homogeneous liquid composition consisting of a dispersion of at least one alkali salt of a sulphonated alkenyl aromatic resin, containing an average of from 0.55 to 0.95 sulphonate radical per aromatic nucleus, in a liquid medium of the group consisting of at least one saturated aliphatic polyhydric alcohol containing from 2 to 6 carbon atoms, and having a ratio of from 1 to 1.5 carbon atoms per atom of oxygen, in the molecule, and aqueous solutions of such saturated aliphatic polyhydric alcohols in a concentration of at least 30 per cent by weight, said salt of the sulphonated alkenyl aromatic resin being present in an appreciable proportion not greater than 10 per cent of the combined weight of the same and the liquid medium.

2,670,337

COMPOSITION FOR PRODUCING WRINKLE-TEXTURED FILMS

Harry A. Toulmin, Jr., Dayton, Ohio, assignor to New Wrinkle, Inc., Dayton, Ohio, a corporation of Delaware

No Drawing. Original application November 17, 1949, Serial No. 127,972. Divided and this application July 9, 1951, Serial No. 235,846

1 Claim. (Cl. 260—31.2)

A coating composition for application to a surface and drying to a wrinkle texture film consisting of 25 parts by weight of vinyl acetate-vinyl chloride copolymer in the ratio of 5% of vinyl acetate and 95% of vinyl chloride, 50 parts by weight of butyl acetate, 102.5 parts by weight of methyl ethyl ketone, 62.5 parts by weight of cyclohexanone and 10 parts by weight of dioctyl phthalate, and a coloring material, said composition gelling at room temperature.

2,670,338

SELF-HARDENING PLASTIC COMPOSITIONS AND SOLID POROUS BODIES PREPARED THEREFROM

Alvin M. Edmunds, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application March 24, 1951, Serial No. 217,397

15 Claims. (Cl. 260—38)

1. A plastic composition, having a property of hardening at room temperature to form a rigid, porous, acid-resistant article, which composition comprises a mass of calcined petroleum coke granules having outer surfaces thereof wetted with a mixture of a liquid, thermosetting phenol-formaldehyde condensation product, a resin-hardening catalyst comprising at least 40 per cent by weight of benzene sulphonyl chloride, and a substantially inert, finely-divided filler in amount sufficient to thicken the liquid phenol-formaldehyde condensation product and thus limit absorption of the same by the coke granules, said phenol-formaldehyde condensation product being present in amount sufficient for surface-wetting of the calcined petroleum coke granules, but insufficient to fill completely the interstices between said granules.

2,670,339

SELF-HARDENING PLASTIC COMPOSITIONS AND POROUS BODIES PREPARED THEREFROM

Alvin M. Edmunds, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application October 29, 1952, Serial No. 317,595

6 Claims. (Cl. 260—41)

1. A plastic composition, having a property of hardening at room temperature to form a rigid, porous body that is resistant to corrosive attack by aqueous acid solutions and by aqueous alkali solutions, which composition comprises a mass of calcined petroleum coke granules having outer surfaces thereof wetted with a liquid furan resin containing at least 50 per cent by weight of chemically combined furfuryl alcohol, a resin-hardening catalyst consisting essentially of from 40 to 80 per cent by weight of benzene sulfonyl chloride and from 20 to 60 per cent of trichloroacetic acid, and a finely-divided filler of the group consisting of amorphous carbon, graphite and mixtures of amorphous carbon and graphite, the finely divided filler being in amount sufficient to thicken the liquid furan resin and limit absorption of the same by the calcined petroleum coke granules, and the liquid furan resin being in amount sufficient for surface-wetting of the calcined petroleum coke granules and insufficient to fill completely the interstices between said granules.

2,670,340

ARALKYL PHENOLS AS ANTIOXIDANTS

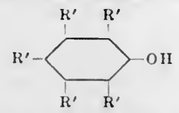
Henry J. Kehe, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application May 23, 1950, Serial No. 163,806

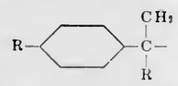
10 Claims. (Cl. 260—45.95)

1. A rubbery composition comprising a rubbery unsaturated organic polymeric material in which has been incorporated, as an antioxidant

therefor, from 0.1 to 10% by weight of a polyaralkylated monohydric phenol of the structure



wherein from 2 to 3 of the R′ groups represent aralkyl radicals of the structure



where R is selected from the class consisting of hydrogen and methyl, and the remaining R′ groups are selected from the class consisting of hydrogen and methyl, no more than one R group being methyl.

2,670,341

PRODUCTION OF ALCOHOL-MODIFIED UREA-FORMALDEHYDE RESINS

Jack D. Joffe, Hopewell, Va., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application October 19, 1951, Serial No. 252,200

9 Claims. (Cl. 260—70)

1. A process for the preparation of alcohol-modified urea-formaldehyde resins which comprises heat reacting a liquid, non-resinous, aqueous urea-formaldehyde reaction product which has been prepared under alkaline conditions and has 60% to 90% by weight total solids, a mol ratio of 4.0 to 6.5 mols of formaldehyde to 1 mol of urea and a pH of at least 7.0, with a saturated unsubstituted monohydric alcohol containing from 1 to 8 carbon atoms at a pH of not over 4.1.

2,670,342

PROCESS FOR VULCANIZING POLYCHLOROPRENE

John J. Verbanc, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 7, 1952, Serial No. 270,503

6 Claims. (Cl. 260—92.3)

1. The process of vulcanizing chloroprene polymers which comprises incorporating in the chloroprene polymer stock, containing at least 1% of zinc oxide, from 0.5% to 3.0% of a Mannich base of the group consisting of phenols and naphthols containing from one to three dimethylaminomethyl groups, and heating at vulcanizing temperatures to effect curing of the polymer.

2,670,343

COMPLEX-FORMING CRYSTALLIZATION PROCESS

Lloyd C. Fetterly, Seattle, Wash., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application March 12, 1948, Serial No. 14,643

10 Claims. (Cl. 260—96.5)

1. A process for the separation of straight chain hydrocarbons from a mixture thereof with non-straight chain hydrocarbons which comprises contacting said mixture with an aqueous solution of urea at a temperature below 75° C. to form a solid phase consisting of crystalline molecular complexes of urea with straight-chain hydrocarbons, an aqueous phase consisting of a dilute aqueous solution of urea and a non-straight chain hydrocarbon phase; separately recovering said phases; admixing the dilute urea solution with said crystalline complexes; heating said admixture to a temperature between about 45° and 90° C. whereby the complexes are decomposed to liberate urea and straight chain hydrocarbons and whereby the dilute urea solution is reinforced with said liberated urea; separating the reinforced urea solution from the straight chain hydrocarbons and recycling the reinforced urea solution for treatment of further quantities of the original hydrocarbon mixture.

2,670,344

SEPARATION OF HYDROCARBONS WITH THIOUREA

Lloyd C. Fetterly, El Cerrito, Calif., asssignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application December 18, 1950, Serial No. 201,490

1 Claim. (Cl. 260—96.5)

The process for the recovery of cyclohexane from a mixture thereof with at least another hydrocarbon normally associated therewith which comprises; vaporizing said mixture, contacting the vapors thereof with solid thiourea whereby a solid complex is formed between cyclohexane and solid thiourea and heating said solid complex to recover a gaseous product having an increased proportion of cyclohexane.

2,670,345

SUBSTITUTED GLUCONAMIDES

Charles L. Mehltretter, Russell L. Mellies, and John C. Rankin, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application April 5, 1949, Serial No. 85,711

7 Claims. (Cl. 260—98)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A gluconamide compound of the formula:

$$RNHCO(CHOH)_4CH_2OH$$

in which R is a hydrocarbon radical taken from the group consisting of alkyl radicals having from 8 to 18 carbon atoms and rosin radicals, and in which at least one hydroxyl group of the gluconyl radical is replaced by the radical SO_4M in which M is taken from the group consisting of hydrogen and alkali metals.

4. Sodium N-rosin-D-gluconamide sulfate.

2,670,346

COPPERABLE DISAZO DYESTUFFS

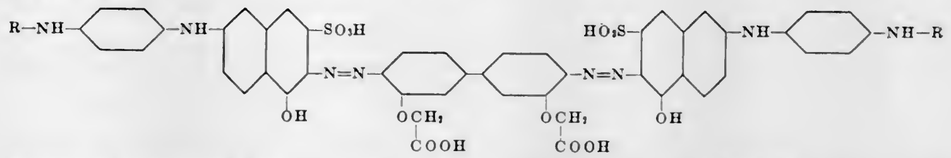
Werner Bossard, Riehen, near Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application January 21, 1952, Serial No. 267,502

Claims priority, application Switzerland February 7, 1951

8 Claims. (Cl. 260—181)

1. A disazo dyestuff corresponding to the general formula:



wherein R represents a low molecular aliphatic carboxylic acid acyl radical.

2,670,347

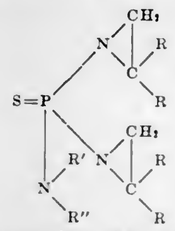
THIOPHOSPHORIC ACID DERIVATIVES AND METHOD OF PREPARING THE SAME

Erwin Kuh, New Brunswick, and Doris R. Seeger, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 8, 1952, Serial No. 265,543

13 Claims. (Cl. 260—239)

1. Compounds of the group having the general formula:



in which R is a member of the group consisting of hydrogen, and lower alkyl radicals, and R′ and R″ are members of the group consisting of hydrogen and lower alkyl radicals and when taken together with the nitrogen atom form a saturated heterocyclic radical containing from 3 to 6 atoms.

2,670,348

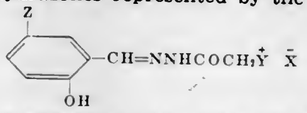
GIRARD DERIVATIVES OF 5-HALO-SALICYLALDEHYDES

Walter A. Gregory, Wilmington, and Edward C. Hermann, Willow Run, Wilmington, Del., assignors to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 10, 1952, Serial No. 292,736

5 Claims. (Cl. 260—240)

1. A compound selected from the group consisting of 2-hydroxy-5-inorgano-benzaldehyde carboxymethyl quaternary ammonium halide hydrazide hydrazones represented by the formula



and their hydroxylic solvates, where Z is a halogen radical, Y is a quaternary ammonium radical of the class consisting of trimethylammonium, triethylammonium, pyridinium and morpholinium, and X is a member of the group consisting of chlorine and bromine.

2,670,349

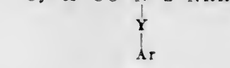
BASICALLY SUBSTITUTED DERIVATIVES OF N - ARALKYLCYCLOALKYLALKANAMIDES AND THEIR SALTS

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application June 8, 1951, Serial No. 230,709

14 Claims. (Cl. 260—247.2)

1. A basically substituted N-aralkyl-cycloalkyl-alkanamide of the following structural formula:



wherein Cy is a lower cycloalkyl radical; X and Y are lower alkylene radicals; Z is a lower alkylene radical separating the two nitrogen atoms attached thereto by more than one carbon atom; Ar is a member of the class consisting of phenyl and naphthyl radicals, lower alkylphenyl and halophenyl radicals; and NRR′ is a member of the class consisting of lower dialkylamino radicals, morpholino radicals, pyrrolidino radicals and piperidino radicals.

13. N - (β - morpholinoethyl) - N - benzyl-cyclohexaneacetamide.

2,670,350

METHOD OF PREPARING CHOLINE SALT OF THEOPHYLLINE

Peter Claude Hereld, East Meadow, N. Y., assignor, by mesne assignments, to Nepera Chemical Co., Inc., Yonkers, N. Y., a corporation of New York

No Drawing. Application August 8, 1952, Serial No. 303,419

2 Claims. (Cl. 260—256)

1. The method of preparing theophyllin cholinate which comprises the steps of reacting equimolecular proportions of an acid salt of choline and an alkali metal salt of theophylline, each dissolved in methanol, filtering the reaction products and recovering theophyllin cholinate from the filtrate.

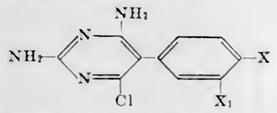
2,670,351

NEW PYRIMIDINE COMPOUNDS AND PROCESSES FOR THEIR PREPARATION

Robert Michel Jacob, Ablon-sur-Seine, France, assignor to Societe des Usines Chimiques Rhone-Poulenc, Paris, France, a French body corporate

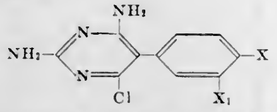
No Drawing. Application December 17, 1952, Serial No. 326,599
Claims priority, application France January 30, 1952
9 Claims. (Cl. 260—256.4)

1. A member of the class consisting of the bases of the general formula:



and of the non-toxic acid salts of such bases, where X is selected from the group consisting of a chlorine atom and a nitro, amino and a methoxy radical, and X_1 is selected from the group consisting of a hydrogen and a chlorine atom and a nitro and a methoxy radical.

7. Process for the production of bases of the general formula:



and the non-toxic acid salts of such bases, where X is selected from the group consisting of a chlorine atom and a nitro, amino and a methoxy radical, and X_1 is selected from the group consisting of a hydrogen and a chlorine atom and a nitro and a methoxy radical, which comprises reacting with ammonia at a temperature of from 50–120° C. a member of the group consisting of 2-amino-4:6-dichloropyrimidine, 2-acetamido-4:6-dichloropyrimidine and 2:4:6-trichloropyrimidine, each substituted in the 5-position in the manner required in the end product.

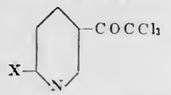
2,670,352

TRICHLOROACETYLPYRIDINES

Theodore I. Fand, White Plains, and Charles F. Lutomski, Yonkers, N. Y., assignors to Nepera Chemical Co. Inc., Yonkers, N. Y., a corporation of New York

No Drawing. Application July 12, 1951, Serial No. 236,466
6 Claims. (Cl. 260—297)

4. The compounds of the general formula:



where X is a member of a group consisting of hydrogen and a methyl radical, and their water soluble acid addition salts.

2,670,353

PROCESS FOR THE PRODUCTION OF FLUORINATED DIKETONES

Milton W. Davis, Jr., Wilmington, Del., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application October 28, 1948, Serial No. 57,006
11 Claims. (Cl. 260—332.3)

11. In a process for the production of thenoyltrifluoroacetone, the steps of reacting an alkali metal methoxide with ethyl trifluoroacetate in the presence of a liquid paraffinic hydrocarbon as a reaction medium, adding acetothienone to the resulting mixture and reacting the acetothienone with the product of the first reaction, whereby an alkali metal salt of thenoyltrifluoroacetone is formed and precipitates from the reaction mixture.

2,670,354

4,6 - ALKYLIDENE-D-GLUCITOL AND PROCESS OF PRODUCING THE SAME FROM SUCROSE

Allen Scattergood, Orange, N. J., assignor to Sugar Research Foundation, Inc., Cambridge, Mass., a corporation of New York

No Drawing. Application March 16, 1950, Serial No. 150,111
6 Claims. (Cl. 260—340.7)

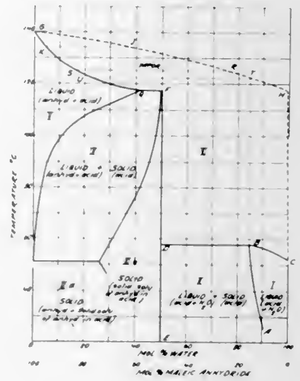
1. 4,6-alkylidene-D-glucitols.

2,670,355

MANUFACTURE OF MALEIC ANHYDRIDE

George Barsky, New York, and Sidney Gottfried, Brooklyn, N. Y.; said Gottfried assignor to said Barsky

Application February 23, 1950, Serial No. 145,674
15 Claims. (Cl. 260—346.8)



1. The method of recovering maleic anhydride from a mixture of maleic anhydride vapor and water vapor containing at least about five molecular percent of maleic anhydride, the composition of said mixture being such that it would condense at a temperature not above the triple point, which consists in adding thereto maleic anhydride in sufficient amount to provide a mixture which would condense at a temperature above the triple point, fractionally condensing at a pressure not in excess of atmospheric said mixture of vapors at a temperature above that of the triple point at which a vapor phase comprising maleic anhydride and water, a liquid phase comprising maleic anhydride and maleic acid, and a solid phase comprising maleic anhydride and maleic acid can co-exist in equilibrium at the pressure at which condensation occurs, and thereafter fractionally distilling the condensate and separating the maleic anhydride as the high boiling fraction.

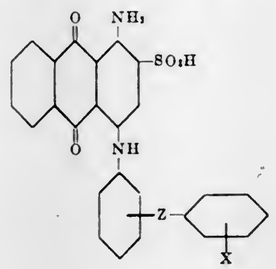
2,670,356

ANTHRAQUINONE DYESTUFFS

Klaus Weinand, Leverkusen, Germany, assignor to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany, a corporation of Germany

No Drawing. Application August 26, 1950, Serial No. 181,703
Claims priority, application Great Britain September 1, 1949
6 Claims. (Cl. 260—372)

1. The new dyestuffs of the general formula



wherein X is a radical selected from the group consisting of alkoxy, carbalkoxy, sulfo-dialkylamide and sulfophenoxy, and Z is a member of the group consisting of CO.NH and —NH.CO—.

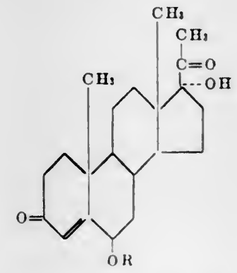
2,670,357

6 BETA, 17 ALPHA-DIHYDROXY-4-PREGNENE-3,20-DIONE AND ESTERS THEREOF

Herbert C. Murray, Hickory Corners, and Durey H. Peterson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 1, 1952, Serial No. 296,721
12 Claims. (Cl. 260—397.4)

1. A compound represented by the graphic formula:



wherein R is selected from the radicals hydrogen and hydrocarbon-carboxylic acyl radical containing less than nine carbon atoms.

2,670,358

14 ALPHA-HYDROXYPROGESTERONE

Herbert C. Murray, Hickory Corners, and Durey H. Peterson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application August 28, 1952, Serial No. 306,924
1 Claim. (Cl. 260—397.45)

14a-hydroxyprogesterone.

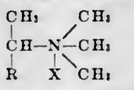
2,670,359

TREATMENT OF STEROID QUATERNARY AMMONIUM SALTS

Percy L. Julian, Maywood, and Edwin W. Meyer, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application August 23, 1947, Serial No. 770,336
4 Claims. (Cl. 260—397.5)

1. The process for preparing 20-pregnenes of the general formula R—CH=CH_2 where R is cyclopentano - 10,13 dimethylpolyhydrophenanthrene group possessing a double bond at the C_5–C_6 position, which comprises treating quaternary ammonium halides of the general formula



where X is a halogen atom selected from the class consisting of chlorine, bromine and iodine and R is as described above, with an hydroxide selected from the class consisting of silver hydroxide and alkaline hydroxides to form the quaternary ammonium hydroxide, followed by heat decomposition of the quaternary hydroxides to split off trimethyl amine and H_2O and to yield the corresponding 20-pregnenes of the formula

R—CH=CH_2

wherein R has the same meaning as above.

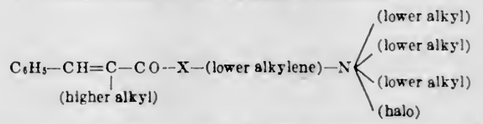
2,670,360

QUATERNARY AMMONIUM SALTS OF BASIC DERIVATIVES OF SUBSTITUTED CINNAMIC ACIDS AND METHODS OF PRODUCING SAME

William A. Lott, Maplewood, N. J., assignor to Mathieson Chemical Corporation, New York, N. Y., a corporation of Virginia

No Drawing. Application November 30, 1951, Serial No. 259,303
8 Claims. (Cl. 260—404)

1. Compounds of the general formula



wherein X is a member of the class consisting of O and NH.

2,670,361

POLYMERIZATION PROCESS USING HYDROGEN FLUORIDE

Clarence Bradford Croston, Howard M. Teeter, and John C. Cowan, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application November 9, 1951, Serial No. 255,723
5 Claims. (Cl. 260—407)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process comprising subjecting a fatty acid material derived from drying and semi-drying glyceride oils and selected from the group consisting of a long-chain, unsaturated, aliphatic carboxylic acid, a lower alkyl ester thereof, and mixtures of such acids and esters, to the action of a polymerization agent consisting essentially of hydrogen fluoride at a temperature of from 15° C. to 100° C. until polymerization is effected, said hydrogen fluoride being present in an amount of from 15% to 65% based on the weight of the fatty acid material.

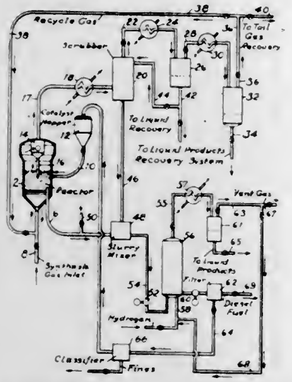
2,670,362
METHOD OF REFINING VEGETABLE OILS IN MISCELLA
John A. Ziegler, Toronto, Ontario, Canada, assignor to Canadian Breweries Limited, Toronto, Ontario, Canada, a corporation of Ontario
No Drawing. Application September 28, 1950, Serial No. 187,353
5 Claims. (Cl. 260—426)

1. In a process for refining vegetable oils in hexane, the method of providing a refined vegetable oil containing bleached neutral phosphatides, comprising: decolourizing the vegetable oil while in hexane, then mixing the decolourized oil while in hexane, with an alkali refining agent containing only sufficient sodium hydroxide to neutralize the free fatty acids thereof but providing retention of the phosphatides in the oil; and separating out the neutralized free fatty acids into soaps with a brine while neutralizing said free fatty acids.

2,670,363
PREPARATION OF TITANIUM CHLORIDE ACETATE POWDER MATERIAL
John P. Wadington, Keyport, N. J., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application February 21, 1952, Serial No. 272,894
3 Claims. (Cl. 260—429)

1. In a process for producing titanium dichloride diacetate powder material the steps which comprise preheating titanium tetrachloride and glacial acetic acid to the vapor state, and reacting said vapors in a reaction zone at a temperature of at least 136° C. but not in excess of about 170° C., removing the gaseous hydrogen chloride from the reaction zone, and collecting the so-formed titanium dichloride diacetate powder material, said titanium dichloride diacetate powder material being substantially free of by-product hydrogen chloride.

2,670,364
REGENERATION OF IRON HYDROCARBON SYNTHESIS CATALYST
Charles E. Hemminger, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 30, 1948, Serial No. 57,512
5 Claims. (Cl. 260—449.6)

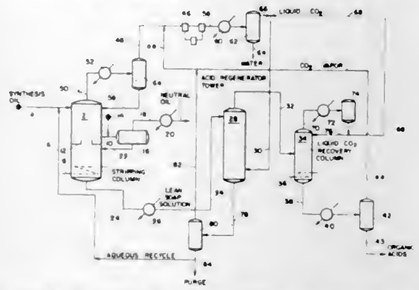


1. The process for producing valuable hydrocarbons of high cetane value and simultaneously dewaxing hydrocarbon synthesis catalyst which comprises reacting carbon oxides and hydrogen in the presence of a finely divided iron-type synthesis catalyst in a synthesis zone under synthesis conditions, maintaining a fluidized bed of said catalyst in said synthesis zone, withdrawing a portion of said fluidized catalyst from said synthesis zone, continuously withdrawing gaseous and vaporous products and entrained catalyst of smaller than fluidizable particle size and solids from the top of said reaction zone, contacting said gases, vapors and entrained catalyst and solids with oil to separate entrained catalyst and solids in an oil scrubbing zone, withdrawing oil and scrubbed out catalyst and solids from that zone, forming a slurry comprising said withdrawn oil and its entrained solids and catalyst and said portion of fluidized catalyst withdrawn from said synthesis zone, introducing said slurry into a hydrogenation zone, subjecting said slurry to a hydrogenation reaction with hydrogen under conditions comprising 250–750 p. s. i. and 600°–800° F., withdrawing a mixture of oil and catalyst from said hydrogenation zone, separating said withdrawn mixture in a filtration zone into catalyst and an oil product containing valuable hydrocarbons of high cetane value, recycling at least a portion of said catalyst to said synthesis zone, and recovering said separated oil product.

2,670,365
HYDROCARBON SYNTHESIS PROCESS
Rhea N. Watts and C F Gray, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application March 5, 1949, Serial No. 79,911
1 Claim. (Cl. 260—449.6)

In the catalytic synthesis of normally liquid hydrocarbons from CO and H_2 in the presence of an iron-type catalyst, the improvement which comprises contacting said CO and H_2 at synthesis conditions with a catalyst prepared by impregnating an Alundum carrier consisting of about 85% Al_2O_3 and 12% SiO_2 with an iron salt to give a product containing about 5 to 15% iron and incorporating into the product a minor proportion of an alkali metal compound promoter.

2,670,366
PROCESS FOR REGENERATING CARBOXYLIC ACIDS FROM THEIR SALTS
Donald G. Cain, Clifton S. Goddin, Jr., and Neal M. Caruthers, Tulsa, Okla., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application August 27, 1951, Serial No. 243,862
16 Claims. (Cl. 260—450)



1. In a process for recovering carboxylic acids from a hydrocarbon solution thereof wherein said acids are converted to their corresponding alkali metal salts, separating the resulting aqueous salt solution and stripping off the volatile organic components thereof to obtain an aqueous residue of said salts, the steps which comprise subjecting said aqueous residue to extraction with liquid carbon dioxide while maintaining a temperature of from slightly above the freezing point of said aqueous residue to about 88° F. and a pressure of from about 555 to about 1055 p. s. i. g., said carbon dioxide being employed in a weight ratio of at least about 0.5 part of carbon dioxide to about 1 part of salt solution, and withdrawing a stream comprising liquid carbon dioxide and liberated carboxylic acids dissolved in said liquid carbon dioxide.

2,670,367
PREPARATION OF ESTERS OF ALKANE-PHOSPHONIC ACIDS
Allen H. Lewis, Berkeley, and Richard D. Stayner, Albany, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware
No Drawing. Original application February 4, 1948, Serial No. 6,345. Divided and this application September 5, 1950, Serial No. 183,283
7 Claims. (Cl. 260—461)

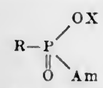
1. The method of preparing hydroxy esters of long-chain alkane phosphonic acids, which comprises heating to a temperature in the range from about 20 to about 200° C. one mol of a long-chain alkane phosphonic acid containing from 10 to 18 carbon atoms in the alkane portion thereof with an even number up to 20 mols of an olefin oxide containing from 2 to 4 carbon atoms.

2,670,368
PRODUCTION OF ALKYL PHOSPHITES
Arthur A. Baker and James Howard Brown, Niagara Falls, N. Y., assignors to Oldbury Electro-Chemical Company, Niagara Falls, N. Y., a corporation of New York
No Drawing. Application September 1, 1950, Serial No. 182,889
5 Claims. (Cl. 260—461)

1. A process for the production of a diester of phosphorous acid and a monohydric alcohol which comprises the direct esterification of the alcohol containing at least three carbon atoms in the molecule and phosphorous acid by heating them together in the presence of a substantial quantity of an inert organic solvent which forms a ternary azeotropic mixture with the alcohol and water while removing the water of esterification from the reaction mixture continuously as formed, and subsequently recovering the ester from the reaction mixture.

2,670,369
PHOSPHONAMIC ACIDS
Pierre Filatoff-Rocq, San Francisco, and Richard D. Stayner, Albany, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 29, 1950, Serial No. 187,678
6 Claims. (Cl. 260—461)

1. As new products, organo-substituted compounds of phosphorus, corresponding to the formula



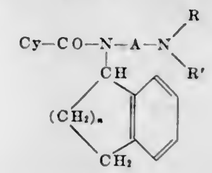
wherein R is an alkyl radical containing from 10 to 24 carbon atoms directly attached to the phosphorus atom; Am is an amino substituent selected from the group consisting of the radicals of primary and secondary alkylol amines; and X is selected from the group consisting of hydrogen, alkyl, alkali metal and alkaline earth metal radicals.

2,670,370
OXIDATION OF CERTAIN HETEROCYCLIC COMPOUNDS
William G. Toland, Jr., San Rafael, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
No Drawing. Application July 23, 1952, Serial No. 300,519
8 Claims. (Cl. 260—537)

1. A method of producing organic acids, their amides and their ammonium salts, which comprises rupturing the heterocyclic ring of a heterocyclic compound containing 4 to 5 carbon atoms and 1 atom of the group consisting of oxygen and sulfur in the ring by heating the heterocyclic compound with elemental sulfur, water and a water-soluble inorganic base to a temperature in the range from 400° F. to 700° F. under a superatmospheric pressure sufficient to maintain at least a part of the water in liquid phase.

2,670,371
BASIC ALKYL SUBSTITUTION PRODUCTS OF N-INDANYL AND N-TETRAHYDRONAPHTHYL-MONOCARBOCYCLYLAMIDES AND THEIR SALTS
John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application August 1, 1951, Serial No. 239,837
7 Claims. (Cl. 260—557)

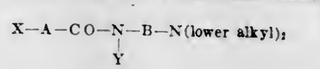
1. The amides of the structural formula



wherein Cy is a lower cycloalkyl radical, A is a lower alkylene radical separating the two nitrogen atoms by at least two carbon atoms, n is an integer smaller than three and greater than zero, and R and R′ are lower alkyl radicals.

2,670,372
N-DIALKYLAMINOALKYL-N-CYCLOALKYL-CYCLOALKYLALKANAMIDES
John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application July 23, 1952, Serial No. 300,509
13 Claims. (Cl. 260—557)

1. A compound of the structural formula



wherein X and Y are lower cycloalkyl radicals, A is a lower alkylene radical and B is a lower alkylene radical separating the 2 nitrogen atoms attached thereto by at least 2 carbon atoms.

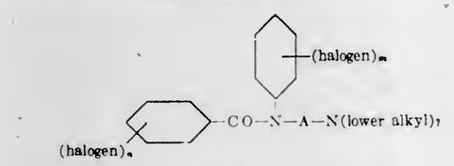
2,670,373

HALOGENATED N-ARYL-N-DIALKYLAMINO-ALKYL-ARYLCARBOXAMIDES

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application August 29, 1950, Serial No. 182,132
8 Claims. (Cl. 260—558)

1. A compound of the structural formula



wherein A is a lower alkylene radical separating the two nitrogen atoms attached thereto by at least two carbon atoms and *n* and *m* are positive integers greater than zero and less than 3.

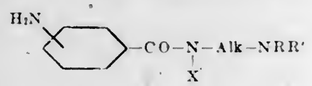
2,670,374

N-DIALKYLAMINOALKYL AMINOBENZANILIDES AND N-ARALKYLAMINOBENZAMIDES AND THEIR SALTS

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application May 17, 1952, Serial No. 288,547
10 Claims. (Cl. 260—558)

1. A compound of the structural formula



wherein Alk is a lower alkylene radical of at least two carbon atoms, R and R′ are lower alkyl radicals and X is a member of the class consisting of aryl and aralkyl hydrocarbon radicals containing six to twelve carbon atoms.

2,670,375

PREPARATION OF AN ISOMER OF AMIDONE

Roger W. Stoughton, St. Louis, Mo., assignor to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri

No Drawing. Application May 10, 1947, Serial No. 747,331
3 Claims. (Cl. 260—570)

1. The method of forming the isomer of amidone n_D^{26} 1.5565–1.5575 and d^{25} 1.03 whose hydrochloride has the approximate melting point 196–8° C. which comprises mixing together a dimethylaminopropyl-diphenylacetonitrile (M. P. 67–8° C.) and an ethyl Grignard reagent, heating the mixture to a temperature of at least approximately 70° C. and then hydrolyzing the product.

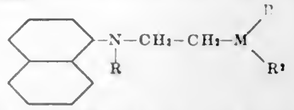
2,670,376

N-ALPHA-NAPHTHYL N,N′,N′,-TRIALKYL-ETHYLENE DIAMINES

John V. Scudi and Godfrey F. Grail, Bronx, N. Y., assignors to Nepera Chemical Co. Inc., Nepera Park, Yonkers, N Y., a corporation of New York

No Drawing. Application October 16, 1951, Serial No. 251,634
8 Claims. (Cl. 260—570.5)

1. Compounds of the group consisting of alpha-naphthyl, tri-alkylethylenediamines of the general formula:



where R is an alkyl radical containing 6 to 14 carbon atoms, R^1 and R^2 are alkyl radicals containing one to three carbon atoms, and their water soluble hydrochlorides.

2,670,377

REDUCTION OF ALKYL NITROAROMATIC COMPOUNDS

Ralph B. Thompson, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application August 30, 1951, Serial No. 244,463
11 Claims. (Cl. 260—580)

1. In a process for selectively reducing the nitro group of an alkyl nitroaromatic compound to the corresponding amino-substituted alkylaromatic compound by contact of the first-named compound with a metallic hydrogenation catalyst in the presence of hydrogen and at hydrogenating conditions of temperature and pressure, the improvement which comprises passing over the catalyst a solution of said alkyl nitroaromatic compound in a mixture of a paraffinic hydrocarbon which is liquid at said conditions and an alcohol selected from the group consisting of methanol and ethanol.

2,670,378

METHOD FOR CONVERTING OXYGENATED ORGANIC CHEMICALS IN HYDROCARBON SYNTHESIS

Clifton G. Frye, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

No Drawing. Application March 12, 1951, Serial No. 215,190
9 Claims. (Cl. 260—596)

1. In a method of converting one of a class of compounds selected from the group consisting of carbonyl compounds and alcohols to alcohols and carbonyl compounds, respectively, in a generally vertically positioned hydrocarbon synthesis reaction zone wherein synthesis gas composed chiefly of carbon monoxide and hydrogen is passed upwardly through said zone and is partially converted to hydrocarbons under known synthesis conditions, the steps which comprise introducing into said reaction zone only at a point above the lower one third of said zone one of said classes of said compounds and contacting the latter with a finely divided active iron hydrocarbon synthesis catalyst substantially free from silica whereby a conversion to the other of said classes of said compounds is secured simultaneously with the formation of hydrocarbons.

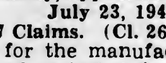
2,670,379

MANUFACTURE OF UNSATURATED ALDEHYDES

David James Hadley, Epsom Downs, England, and Robert James Nichol, Belfast, Northern Ireland, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application March 16, 1950, Serial No. 150,108
Claims priority, application Great Britain March 25, 1949
19 Claims. (Cl. 260—604)

1. Process for the manufacture of unsaturated aldehydes which comprises reacting an olefine of the general formula



in which R and R1 are selected from the group consisting of hydrogen and saturated alkyl in the vapour phase with molecular oxygen at elevated temperatures in the presence in the reaction zone of elementary selenium and a solid contact material comprising copper silicate.

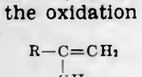
2,670,380

OXIDATION OF OLEFINS

David James Hadley, Epsom Downs, England, assignor to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application March 27, 1950, Serial No. 152,273
Claims priority, application Great Britain April 8, 1949
8 Claims. (Cl. 260—604)

1. Process for the oxidation of olefines of the general formula



wherein R is selected from the group consisting of hydrogen and saturated alkyl radicals and the manufacture thereby of unsaturated aldehydes which comprises reacting molecular oxygen at temperatures between 180° C. and 400° C. in the presence in the reaction zone of elementary selenium and a solid contact material selected from the group consisting of copper molybdate, copper chromate, copper sulphate, copper tungstate and copper vanadate.

2,670,381

OXIDATION OF OLEFINES

David James Hadley, Epsom Downs, and Robert Heap, Cheam, England, and Robert James Nichol, Belfast, Northern Ireland, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application November 8, 1951, Serial No. 255,552
Claims priority, application Great Britain July 23, 1948
17 Claims. (Cl. 260—604)

1. Process for the manufacture of an unsaturated aldehyde selected from the group consisting of acrolein and methacrolein by the catalytic oxidation of olefines selected from the group consisting of propylene and isobutene with gases containing molecular oxygen at temperatures between 210° and 400° C. which comprises passing the reacting gases in the presence of elementary selenium over a contact material comprising copper aluminate.

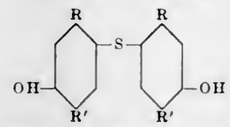
2,670,382

PRESERVATIVES

Paul M. Downey and Richard O. Zerbe, Nitro, W. Va., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 10, 1950, Serial No. 167,499
10 Claims. (Cl. 260—609)

1. A thio bis(3,6-disubstituted phenol) of the structure



where R represents a normal alkyl group of less than three carbon atoms and R′ is selected from the group consisting of normal alkyl radicals of more than one but less than thirteen carbon atoms and benzyl radicals.

2,670,383

COMPOUND SELECTED FROM THE GROUP CONSISTING OF THIO BIS[3-METHYL-6-(1,1,3,3,-TETRAMETHYL BUTYL) PHENOL] AND THIO BIS(3-METHYL-6-T-DODECYL PHENOL)

David J. Beaver, Richmond Heights, Mo., and George L. Magoun, Nitro, W. Va., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 30, 1950, Serial No. 171,562
3 Claims. (Cl. 260—609)

1. Thio bis (3-methyl 6-(1,1,3,3-tetramethyl butyl) phenol).

2,670,384

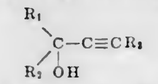
ACETYLENE PEROXIDES

Nicholas A. Milas, Belmont, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application September 24, 1951, Serial No. 248,090
13 Claims. (Cl. 260—610)

1. Acetylene peroxides characterized by having at least one tertiary carbon atom having a peroxy group and an acetylenic group attached thereto.

10. A method of making acetylene peroxides which comprises reacting at a temperature not exceeding about 20° C. in the presence of a mineral acid hydrogen peroxide and an acetylene carbinol of the general formula



wherein R_1 and R_2 are hydrocarbon radicals and R_3 is selected from the group consisting of hydrogen and hydrocarbon radicals.

2,670,385

PROCESS FOR PREPARING ALCOHOLS FROM OLEFINS

Robert W. Rosenthal, Poughkeepsie, and Ernest A. Naragon, Glenham, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application June 16, 1950, Serial No. 168,648
6 Claims. (Cl. 260—632)

1. A process for effecting a one step reaction between olefins, carbon monoxide and hydrogen so as to give a product consisting mainly of alcohols which comprises reacting an olefin with carbon monoxide and hydrogen at a temperature between 250 and 350° F. and at a pressure from 300 to 5000 p. s. i. g. in the presence of a catalyst comprising carbonyl of a metal of the iron group and nickel halide.

2,670,386

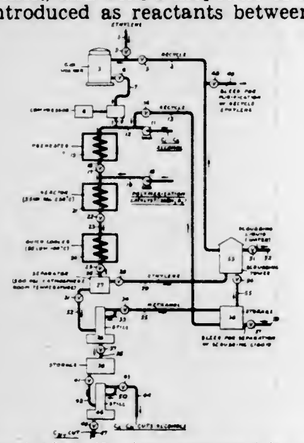
PRODUCTION OF ALCOHOLS

Michael Erchak, Jr., Morris Plains, and Frank Porter, Morristown, N. J., and Charles Forbes Silsby, Scarsdale, N. Y., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

Application August 18, 1949, Serial No. 111,067
3 Claims. (Cl. 260—642)

1. In the production of saturated monohydric alcohols of carbon content between C_5 and C_{21}

inclusive by reaction of a saturated monohydric alcohol containing not more than 8 carbon atoms and ethylene in the presence of a free radical forming catalyst of the homopolymerization of ethylene at temperatures between about 200° C. and about 300° C., pressures between about 1000 pounds per square inch and about 7500 pounds per square inch, and with a mol ratio of alcohol: ethylene introduced as reactants between about



1:1 and about 10:1, the improvement in recovery of C_5–C_{21} alcoholic products of said reaction in the form of liquid phase mixtures which comprises lowering the pressure on the reaction mixture containing desired products below about 500 pounds per square inch and lowering the temperature of the reaction mixture during not more than about 5 minutes from reaction temperatures to not more than about 100° C. and below the initial reaction temperature of the catalyst.

2,670,387

FLUORINATION OF TRIFLUORO-TRICHLORO-PROPENE

Hans B. Gottlieb, Glassboro, N. J., and Joseph D. Park, Boulder, Colo., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 29, 1949, Serial No. 90,566

8 Claims. (Cl. 260—653)

1. The process for preparing at least one of 2:3:3-trichloropentafluoropropane and 2:3-dichlorohexafluoropropane which comprises passing a mixture of vapors of 1:1:1-trifluoro-2:3:3-trichloro-2-propene and an inert gas, the mixture containing from about 3% to about 50% by weight of the trifluoro-trichloro-propene, over powdered CoF_3 heated at a temperature of from about 50° C. to about 150° C. at a contact time of from about 1 to about 10 minutes, while stirring the powdered CoF_3 to continuously expose fresh surfaces thereof to the mixture of gases and then separating the products.

2,670,388

PREPARATION OF UNSATURATED FLUORO-CHLOROCARBON

Charles B. Miller, Lynbrook, N. Y., and John D. Calfee, Dayton, Ohio, assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application August 3, 1951, Serial No. 240,286

2 Claims. (Cl. 260—653)

1. The process for fluorinating $CCl_2{=}CCl_2$ which comprises contacting said $CCl_2{=}CCl_2$ in the presence of sufficient gaseous HF to form $CCl_2{=}CClF$ and at fluorination temperature in the approximate range 500–750° C. with aluminum fluoride catalyst, for time sufficient to fluorinate an appreciable amount of said $CCl_2{=}CCl_2$ to form $CCl_2{=}CClF$.

2,670,389

MANUFACTURE OF HALOCARBONS

Herbert J. Passino, Englewood, Wilber O. Teeters, River Edge, and Russell M. Mantell, Orange, N. J., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application November 23, 1951, Serial No. 257,734

17 Claims. (Cl. 260—653)

14. A process for producing halocarbons which comprises introducing fluorine and a halogen other than fluorine into a reaction zone, and reacting the halogens with carbon in the presence of a metal halide.

2,670,390

CATALYZED CONDENSATION OF AROMATIC COMPOUNDS WITH UNSATURATED ORGANIC COMPOUNDS

Herman Pines and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application July 25, 1951, Serial No. 238,566

17 Claims. (Cl. 260—668)

16. In the side chain alkylation of an aromatic compound having attached to a nuclear carbon atom thereof a carbon atom of a saturated hydrocarbon group and to which last-named carbon atom is attached at least one hydrogen atom, the improvement which comprises effecting the side chain alkylation reaction in the presence of an alkali metal and an acetylenic hydrocarbon.

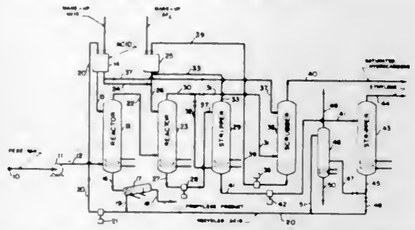
2,670,391

RECOVERY OF ETHYLENE

Arthur P. Lien, Highland, and Carl E. Johnson, Griffith, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application June 29, 1951, Serial No. 234,415

10 Claims. (Cl. 260—677)



1. A process of recovering substantially pure ethylene from a gas containing ethylene, propylene, and other constituents boiling within substantially the same temperature range, the said process comprising: scrubbing the said gas with a sulfonic acid that has an acidity substantially equivalent to that of a low-molecular weight alkanesulfonic acid in at least 90 weight percent concentration while maintaining a temperature between 20° and 120° C. and effecting removal of propylene from the gas; passing substantially propylene-free gas from the said scrubbing step into direct contact with a sulfonic acid containing from 0.5 to 50 mol percent, based on the acid, of boron trifluoride at a temperature below about 75° C., and esterifying ethylene contained in the gas; removing the so-formed ethyl ester from the gas; stripping boron trifluoride from the ester at a temperature below 80° C.; and heating the ethyl ester, free of boron trifluoride, to a temperature between about 150° and 250° C. thereby liberating substantially pure ethylene.

2,670,392

POLYMERIZATION OF OLEFINS

William F. Glassmire, Groves, and James H. Phillips, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application April 19, 1950, Serial No. 156,939

2 Claims. (Cl. 260—683.15)

1. The method of producing higher boiling olefin polymers from a charge of olefin polymers boiling essentially within the gasoline boiling range that comprises contacting the olefin polymers with strong sulfuric acid at a low temperature not exceeding about 70° F. in the presence of a proportion of isoparaffin lower boiling than the charge in a ratio of isoparaffin to olefin of the order of 0.2–0.5:1 and with an olefin space velocity of about 0.2–1.0 liquid volume per volume acid per hour to thereby effect reactions involving essentially polymerization to form higher boiling olefin polymers.

2,670,393

POLYMERIZATION OF ISOBUTENE WITH ANHYDROUS SULFUR TRIOXIDE CATALYST

Murlin T. Howerton, Notre Dame, Ind., assignor to University of Notre Dame Du Lac, Notre Dame, Ind., a corporation of Indiana

No Drawing. Application January 10, 1952, Serial No. 265,923

6 Claims. (Cl. 260—683.15)

1. The method of polymerizing isobutene to form a hydrocarbon reaction product mixture composed essentially of low molecular weight polyisobutenes, which comprises contacting isobutene in the vapor phase with anhydrous sulfur trioxide in the vapor phase in the proportion of from .01 to .05 mole of sulfur trioxide to 1 mole of isobutene.

ELECTRICAL

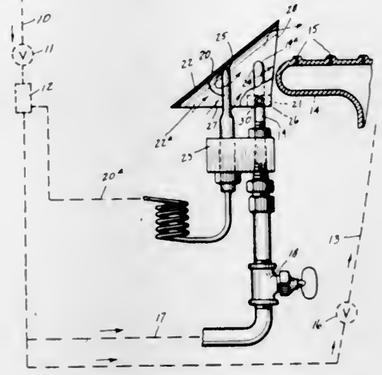
2,670,394

SHIELD MEANS FOR PILOT BURNERS AND THERMOCOUPLE OF GASEOUS FUEL BURNERS

Oscar A. West, Indianapolis, Ind.

Application March 18, 1950, Serial No. 150,386

4 Claims. (Cl. 136—4)



1. Shield means for the pilot burner and thermo couple of a gaseous fuel burner comprising an inverted substantially U-shaped shield having side walls and an arcuate hood portion bridging the upper ends of said walls, said shield including two openings disposed approximately transversely of each other and having free communication beneath the hood, means for supporting said hood above and about the thermo couple and the pilot burner, said hood being disposed in immediate proximity to the active end of the thermo couple, said pilot burner having a port opening towards said thermo couple, and a second port opening oppositely from said first port and upwardly towards said hood.

2,670,395

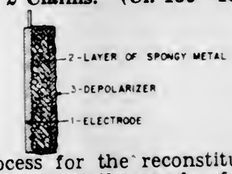
METHOD FOR THE PREPARATION OF DEPOLARIZERS FOR ELECTRIC CELLS

René Audubert and Coriolan Calmar, Paris, France

Application May 1, 1950, Serial No. 159,397

Claims priority, application France May 7, 1949

2 Claims. (Cl. 136—136)



2. A process for the reconstitution of a depolarizing layer on the anode of an electrolytic cell comprising covering the anode with a porous metal layer, reconstituting the depolarizing layer from said porous metal layer in an electrolyte containing ions which produce an insoluble salt with the metal of the electrode, and effecting electrolysis at an electrolyzing temperature, thereby depositing on the anode the depolarizing layer with the desired electrochemical capacity and desired thickness.

2,670,396

VENTING AND PRESSURE RELEASE ARRANGEMENT OF ELECTRIC ACCUMULATORS

Braham Rowley Field, Redditch, England, assignor to Alkaline Batteries, Limited, Redditch, England, a British company

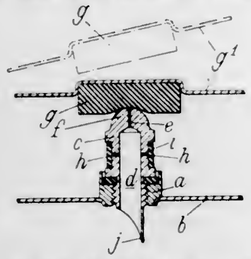
Application July 30, 1951, Serial No. 239,314

Claims priority, application Great Britain August 10, 1950

2 Claims. (Cl. 136—178)

1. A venting and pressure release device for an electric accumulator, comprising a body adapted to be fitted into the top of the accumulator and to extend beneath the top and having a gap at one side of the part which so extends, a relatively large bore orifice extending through said body from its lower to adjacent to its upper end, a small bore orifice extending from the top of said large bore orifice to the end of said body,

at least one radial orifice in the body extending from said large bore orifice to the exterior of the body, an elastic band on the exterior of said body to yieldingly close said radial orifice, and a partition located in the large bore orifice, extending from its lower end to a point short of its top end and dividing said orifice longitudinally into two parts, the said gap being at one side of the partition.



2,670,397

EXPANSIBLE GROUNDING ELECTRODE

James D. Covington, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application April 17, 1950, Serial No. 156,389
5 Claims. (Cl. 174—6)



1. An electrode comprising a rectangular metallic plate pleated normal to the length thereof, a terminal strip reinforcingly secured along one end of said plate at an angle with respect to the mean plane of said pleated plate, means for releasably interlocking said strip and the other end of said plate with said terminal strip directed inwardly thereof to form an expansible electrode having a high ratio of surface area to volume, and means for coupling an electrical circuit to said electrode.

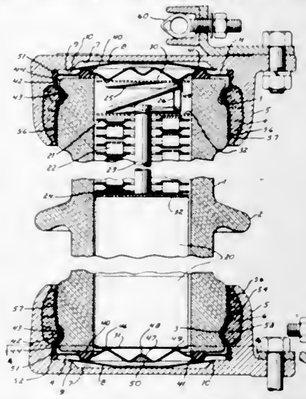
2,670,398

LIGHTNING ARRESTER

John M. Sheadel, Barberton, and John J. Taylor, Wadsworth, Ohio, assignors to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey

Application April 17, 1950, Serial No. 156,244
3 Claims. (Cl. 174—17.08)

1. In a lightning arrester formed of two end fittings joined by a porcelain housing through which is a generally cylindrical opening in which are located lightning-arresting elements, with sand affixed to the outer surface of the housing and a wall of each of said fittings encircling the end of the housing and spaced from its outer surface, the improvement which includes a resilient metal sealing cap over each end of the housing with its side wall bent inwardly over a projecting portion of the housing and separated from the housing by a resilient gasket held tightly between the cap and the housing, an annular ring of larger diameter than said opening impressed in each cap and in the ring a rubber gasket which is compressed against its end of the housing, the portion of each sealing cap which covers the open end of the housing being bent toward the opening, each sealing cap being bent away from the opening inside of said annular bent portion but with its central portion bent toward the opening in the housing, a perforation in said central portion of at least one of the sealing caps which opening is sealed over with metal on the outer surface of the cap, a circular depression in the central portion of the inner surface of each end fitting which is larger in diameter than the opening at each end of



the housing, an annular spring plate fulcrumed near its outer edge on the edge of the depression which inwardly of the fulcrum is in pressure contact with the outer surface of the aforesaid annular ring in the cap which holds the rubber gasket, the inner surface of each end fitting approaching the portion of the sealing cap which covers said projection at its end of the housing, a rubber barrier ring sealing off this space between the fitting and the cap, said sand on the outer surface of the housing being adjacent the edge of the sealing cap, asphalt coating on (1) the sand, (2) the exposed surface of each cap near the edge thereof, and (3) the inner surface of the wall of each end fitting between the edge thereof and its contact with said barrier ring, the space between the wall of the end fitting and the outer surface of the housing down to said barrier ring being filled with cement, the space within the housing and adjacent the open-ends of the housing and bounded by the sealing caps and the rubber gaskets being substantially dry and oxygen free.

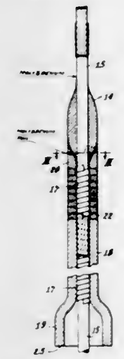
2,670,399

HIGH-PRESSURE GASEOUS DISCHARGE LAMP

George A. Freeman, East Orange, and Edward A. Jenkins, Fairlawn, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 12, 1949, Serial No. 109,902
1 Claim. (Cl. 174—50.54)

An hermetic electrically conducting seal for an electrical discharge lamp comprising an elongated rod like molybdenum leading-in and supporting conductor carrying an electrode at one end thereof, a thin spiral wrapping of molybdenum ribbon surrounding said leading-in and supporting conductor and firmly engaging the surface thereof throughout substantially its entire length within the lamp, and a vitreous sleeve including a graded portion formed of a plurality of vitreous sections having a graded coefficient of expansion and fused at one end of said sleeve to



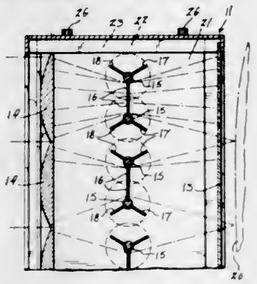
said leading-in conductor at a point remote from the electrode carrying end and embedding one end of said metallic wrapping in the fused mass, and said graded portion of said vitreous sleeve extending a substantial distance longitudinally of said leading-in conductor and being shrunken down into wetted engagement with said wrapping substantially throughout its length, to form a graded buffering seal and to effectively eliminate the formation of a cavity in the seal.

2,670,400

SYNCHRONIZED ROTATING COLOR FILTERS

Fred S. Grunwald, Ozone Park, N. Y.

Application November 28, 1950, Serial No. 197,858
2 Claims. (Cl. 178—5.4)



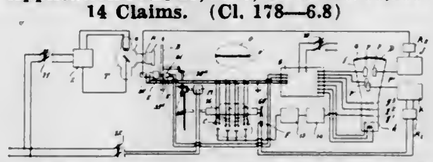
2. A color unit mountable in front of a black and white television screen comprising a frame having fixed side and end walls, a movable and adjustable partition adjacent each side wall, one of said end walls having spaced openings therein, a plurality of pairs of shafts rotatably mounted on the partitions, three transparent blades secured equiangularly apart on each shaft, said blades extending longitudinally of the shafts, the shafts of each pair of shafts being vertically spaced for minimum clearance when their blades are aligned, each of the blades on a shaft being of a different basic color, a plurality of vertically aligned plano-convex lens sections, one lens section for each pair of shafts, said lens sections extending across the shafts and spaced in front of them with the upper and lower edges of each section aligned with the highest and lowest points reached by the blades on a pair of shafts, means operatively connecting the shafts to effect sequentially in the course of a single revolution thereof the vertical coplanar alignment of the correspondingly colored blades on each pair of shafts in said plurality thereof, and means to rotate the shafts at a predetermined speed corresponding to that which color images reach the television screen, and knobs on the partitions and protruding through the openings in end wall to move said partitions to adjust the distance between the lens sections and the associated pairs of shafts.

2,670,401

X-RAY DIAGNOSTIC APPARATUS

Marvin Weinberg, New York, N. Y.

Application June 15, 1948, Serial No. 33,133
14 Claims. (Cl. 178—6.8)



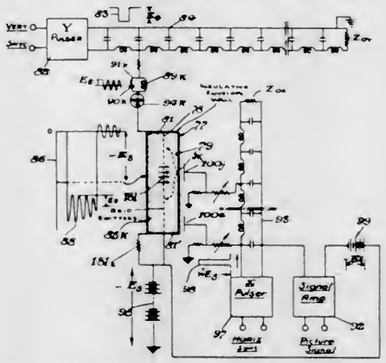
1. In an X-ray diagnostic apparatus the combination comprising an X-ray tube and means to energize the same; a cathode ray oscillograph tube and means to energize the same; means limiting the X-radiation projected from the X-ray tube to a unidirectional small diameter beam projected through an object area; means to collect from any small point area along the path of beam X-ray projection through the object area the X-radiation scattered therefrom in one general direction substantially at right angles to the direction of beam X-ray projection, means converting said collected scattered X-radiation into electrical energy, and means applying said electrical energy to directly affect the intensity of the cathode ray beam of the said cathode ray oscillograph tube.

2,670,402

SCREEN FOR PRODUCING TELEVISION IMAGES

Alvin M. Marks, Beechhurst, N. Y.

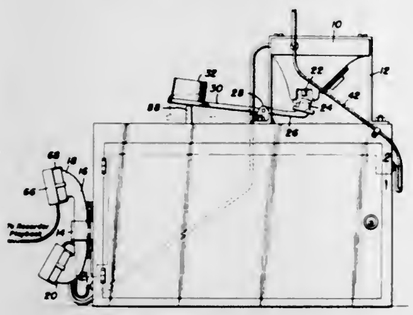
Application November 23, 1948, Serial No. 61,697
9 Claims. (Cl. 178—7.3)



2. An apparatus for producing two-dimensional television images comprising, a screen member in the form of a sealed envelope of large viewing face area and shallow depth, said screen having an electrically conductive extended grid inter-

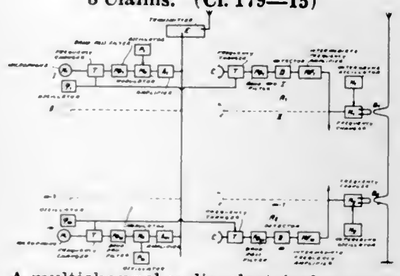
mediate the front and rear inner surfaces of the envelope, a source of reference potential connected to the grid, a plurality of strip electron emitters upon the rear inner face of the envelope, connected through isolating resistors to the said reference potential, a plurality of accelerating conductor strips in front of said grid angularly disposed with respect to the orientation of the strip electron emitters, said grid, electron emitters, and accelerating conductor strips being disposed in planes having parallel relationship with each other and the front of the screen member, a phosphor carried upon the inner front face of the envelope, a readily ionizable gas carried within the screen envelope, a first scanning means comprising a first pulser, a delay line connected to said pulser, taps along said delay line whereby the delay line is connected to each of the accelerating conductor strips, a second scanning means comprising a second pulser, a second delay line connected thereto, taps along the second delay line whereby the said second delay line is connected to each of the strip emitters, a series of diodes inserted between the strip emitters and the second pulser line to isolate said emitters from said line except upon application of a pulse, an oscillator connected in series with the second pulser between the electron emitters and the grid to maintain in the screen a traveling strip of ions, a signal source connected in series with the first pulser whereby the successively modulated and pulsed accelerator electrodes may cause electrons to fall upon the phosphor from selected portions of the emitters behind the ionized strip, which portions are defined by the intersection of the activated accelerating electrode strip and the strip emitters so as to scan and modulate said screen to form a picture on the front thereof.

2,670,403
AUTOMATIC TELEPHONE
Victor C. Mack, Long Beach, Calif.
Application January 25, 1952, Serial No. 268,197
15 Claims. (Cl. 179—6)



1. An automatic telephone device comprising a telephone support, an actuating circuit, a control switch for said circuit, said control switch being actuated by the flow of signal energy to said telephone, a fluid cylinder, a piston movable in said cylinder, a control arm for said telephone, said piston being operatively connected to said arm, means energized from said circuit supplying fluid to said cylinder, a cylinder having a spiral voice track thereon, a needle for following said track, a carriage supporting said needle, a carriage track pivotally mounted adjacent to said cylinder, said piston being operatively connected to said track, said piston when actuated lowering said needle into operative relation with said cylinder, rotation of said cylinder traversing said carriage along said track, a limit switch, said carriage engaging said limit switch to deenergize said actuating circuit.

2,670,404
MULTICHANNEL RADIOELECTRIC COMMUNICATION SYSTEM
Henri Chireix, Paris, France, assignor to Societe Francaise Radio-Electrique, a corporation of France
Application November 24, 1950, Serial No. 197,205
Claims priority, application France December 2, 1949
8 Claims. (Cl. 179—15)



1. A multichannel radio-electrical communication system having a plurality of stations operating with ultra-short waves, each of said stations comprising, in combination, means for transforming voice frequency signals into audio frequency bands associated, respectively, with the channels of the communication system; a plurality of sources of intermediate frequency associated, respectively, with the channels of the communication system, said intermediate frequencies differing by amounts being different from one another and being integral multiples of a predetermined frequency difference; means for amplitude-modulating said intermediate frequencies associated, respectively, with the channels, respectively, by said voice frequency bands associated with the channels so as to obtain intermediate frequencies and two side bands for each of said intermediate frequencies; means for suppressing one of said side bands of each intermediate frequency and attenuating said intermediate frequencies so as to retain the other of said side bands of said intermediate frequencies, said retained side bands associated with the channels of the communication system being, respectively, separated from one another by amounts differing from one another, the smallest of said amounts being equal to the product of said predetermined frequency difference and an integer being equal to one of

$$\frac{(m-2)(m-3)}{6}$$

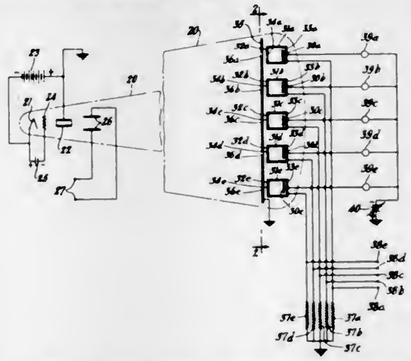
and

$$\frac{(m-2)(m-3)}{6}+1$$

m being the total number of channels of the communication system, the largest of said amounts being equal to the product of said predetermined frequency difference and said integer augmented by $(m-2)$; a single ultra-high frequency transmitter operating with one side band only; means for amplitude-modulating said single ultra-high frequency transmitter by a combination of said retained side bands and said attenuated intermediate frequencies; a first receiver; a second receiver, each of said receivers serving for receiving half the total number of the frequencies assigned, respectively, to the

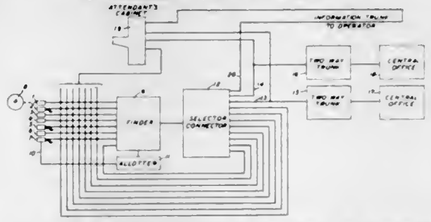
channels; a first local oscillator cooperating with said first receiver and generating a frequency lower than the lowest frequency to be received; a second local oscillator cooperating with said second receiver and generating a frequency higher than the highest frequency to be received; means for mixing said frequencies generated by said first and second oscillators with said frequencies received, respectively, by said first and second receivers so as to generate a first intermediate frequency and a second intermediate frequency; means for amplifying said first and second intermediate frequencies; and means for demodulating said amplified first and second intermediate frequencies so as to obtain two oscillations having frequencies differing from each other by a quantity equal to said predetermined frequency difference.

2,670,405
SIGNALING SYSTEM EMPLOYING ELECTRON BEAMS
Milton E. Mohr, New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 10, 1948, Serial No. 32,092
8 Claims. (Cl. 179—18)



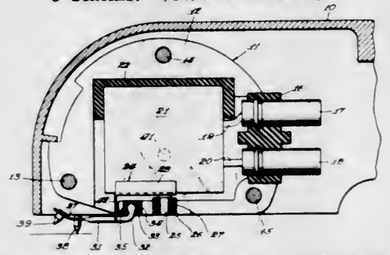
2. A cathode ray tube commutator comprising a plurality of targets, each divided into separate anodes, a plurality of input circuits respectively connected to one anode of each target, a plurality of output circuits respectively connected to another anode of each target, deflecting means adapted to point the beam of the tube toward successive targets, and means for applying a plurality of signals to said respective input circuits.

2,670,406
TELECOMMUNICATION SYSTEM
George Elliott, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Application December 26, 1951, Serial No. 263,375
5 Claims. (Cl. 179—18)



1. In a telecommunication system, a plurality of subscriber lines each including a station and a line circuit, a selector-connector for extending said lines to selected terminals of any one of a plurality of outgoing lines, the plurality of terminals of said outgoing lines being grouped, first means for marking selected ones of said groups of outgoing line terminals in one manner to identify said groups as connecting to outgoing trunk lines, second means for additionally marking selected ones of said first marked groups to identify the additionally marked groups of outgoing terminals as connecting to outgoing lines designated to be restricted from connection with a certain class of subscriber line, a relay in the circuit of said selector-connector responsive to a given operation of a selected line connected to one of said unmarked group terminals, said relay being operated in response to said first marking means, and means responsive to the operation of said relay by said first marking means for converting the circuit of said selector-connector from one suitable for extending a connection from one of said subscriber lines to any desired line connected to outgoing terminals in an unmarked group of outgoing line terminals to one suitable for extending a connection to outgoing terminals of any lines in a group of outgoing terminals marked by said first marking means only.

2,670,407
DRIVE SYSTEM FOR CRYSTAL PICKUPS
Norman F. Martin, Fort Wayne, Ind., assignor to The Magnavox Company, Fort Wayne, Ind., a corporation of Delaware
Application February 17, 1949, Serial No. 76,899
6 Claims. (Cl. 179—100.41)

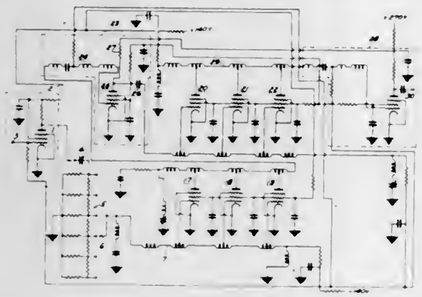


1. In a phonograph pickup, in combination, a cartridge comprising a housing, a crystal mounting within the housing; a crystal bearing in the housing remote from said mounting; and a stylus bearing remote from the crystal mounting and adjacent the crystal bearing; a piezo-electric crystal fixed in said crystal mounting and supported by said bearing, with a crystal driving member secured to said crystal at a point remote from said mounting; a stylus consisting of a short slender wire having a resonant frequency above the range of audibility, said wire having one of its ends pivoted in the stylus bearing and having a playing point near the other end; and a driving connection consisting of a thin metal strip extending between the stylus and the crystal driving member and engaging the stylus between the playing point and the stylus bearing.

2,670,408
COUPLING STAGE FOR DISTRIBUTED AMPLIFIER STAGES
George G. Kelley, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application November 15, 1950, Serial No. 195,844
2 Claims. (Cl. 179—171)

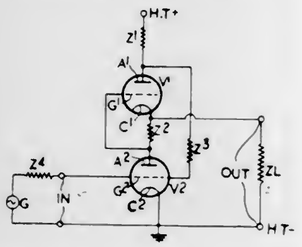
1. In a distributed amplifier comprising a pair of stages, each comprising a plurality of amplifier

vacuum tubes interconnected by respective artificial grid and plate transmission lines, each line having a pair of input terminals and a pair of output terminals, means for terminating in their characteristic impedances the input ends of said plate lines and the output ends of said grid lines, and a source of tube energizing potentials, the improvement comprising means for coupling signals between said stages while isolating the output terminals of said plate lines to prevent termination thereof comprising respective coupling tubes each having at least anode, cathode, and



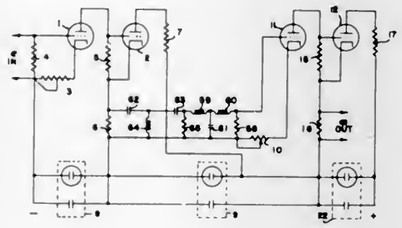
grid electrodes, means coupling the grid of each coupling tube to the amplifier tube anodes of the preceding stage through one output terminal of the plate line of said stage, means coupling the cathode of each coupling tube to the other output terminal of said preceding stage plate line and to one input terminal of the grid line of the following stage, and means coupling the anode of each coupling tube to the other input terminal of said following stage grid line, whereby the effective impedance driven by each amplifier tube is maintained at substantially said characteristic impedance.

2,670,409
THERMIONIC AMPLIFIER
Victor James Cooper, Writtle, England, assignor to Marconi's Wireless Telegraph Company Limited, London, England, a company of Great Britain
Application January 29, 1951, Serial No. 208,377
Claims priority, application Great Britain February 24, 1950
3 Claims. (Cl. 179—171)



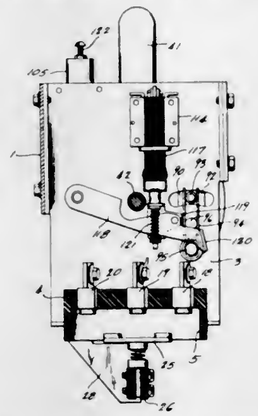
1. A thermionic valve amplifier or repeater comprising a first valve including at least a cathode, a control grid and an anode with a load impedance (ZL) in its cathode circuit, a circuit branch including a second valve, having at least a cathode, a control grid and an anode, said circuit branch being in series with the first valve and in parallel with said load impedance, said load impedance being connected between the cathodes of the two valves, and the cathode of said first valve being connected to the anode of said second valve through an impedance (Z2) forming part of said circuit branch, an impedance (Z3) connected between the anode of the first valve and the control grid of the second valve, a connection between the anode of the second valve and the control grid of said first valve, an input circuit connected to apply input signals between the control grid of said second valve and the cathode thereof, output terminals connected to the ends of said load impedance, a common high potential source having its positive terminal connected to the anode of said first valve through an impedance (Z1) and its negative terminal connected to the cathode of said second valve and means for holding the cathode of said second valve at anchored potential.

2,670,410
DIFFERENTIAL ELECTRONIC AMPLIFIER
John E. Williams, Linwood, N. J.
Original application March 11, 1946, Serial No. 653,694, now Patent No. 2,579,528, dated December 25, 1951. Divided and this application August 2, 1951, Serial No. 240,024
4 Claims. (Cl. 179—171)
(Granted under Title 35, U. S. Code (1952), sec. 266)



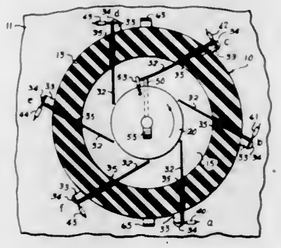
1. An electronic amplifier comprising a first circuit containing a first pair of vacuum tubes each having a cathode, an anode, and a control grid, the first of said first pair of vacuum tubes having an impedance input and a self-biasing cathode impedance element, a first impedance element connected to the anode of said first tube, a second impedance element connected to said first impedance element and to a first source of power, the second of said pair of vacuum tubes having its cathode connected to the juncture of said first and second impedance elements and its grid connected to the anode of said first of said first pair of vacuum tubes and an anode impedance interconnecting the anode of said second of said first pair of vacuum tubes and a second source of power, a second circuit containing a second pair of vacuum tubes each having a cathode, an anode, and a control grid, the anode of the first of said second pair of vacuum tubes being connected to a fourth impedance element, a fifth impedance element interconnecting said fourth impedance element and said second source of power, means connecting said control grid of said second of said second pair of vacuum tubes to the anode of the first of said second pair of vacuum tubes and cathode of said second of said second pair of vacuum tubes to the juncture of said fourth and fifth impedance elements, and a second anode resistance interconnecting said anode of the second of said second pair of vacuum tubes to a third source of power, and a frequency responsive coupling circuit coupling the control grid of the first of said second pair of vacuum tubes to the cathode of the second of said first pair of vacuum tubes.

2,670,411
AUTOTRANSFORMER STARTER
Albert J. Dawe, Milwaukee, Lynn H. Matthias, Fox Point, and Woodrow A. De Smidt, Whitefish Bay, Wis., assignors to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin
Application November 28, 1949, Serial No. 129,728
10 Claims. (Cl. 200—18)



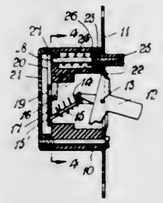
1. In a switch the combination comprising a plurality of longitudinally aligned sets of stationary contacts, each set including a central contact and first and second flanking contacts in transverse alignment, the spacings of said flanking contacts from said central contact being substantially equal, said stationary contacts having contact faces disposed in substantially a common stationary contact engagement face plane, a movable contact assembly for each set of stationary contacts including a pair of electrically joined movable bridging contacts spaced from one another a distance approximately equal to the spacing between said central contact and said flanking contacts, arcuate path transporting means at each end of said aligned sets of contacts including insulating means joining the same and cooperatively engaging and adapted to transport said movable contact assemblies along an arcuate path the chord of which is approximately equal to the spacing between said central contact and said flanking contacts, one terminus of said path being a position in which said movable contacts are in bridging electrical engagement with said central and said first flanking contacts and the other terminus being a position in which said movable contacts are in bridging electrical engagement with said central and said second flanking contacts, said arcuate path being in a plane intersecting said stationary contacts at substantially right angles to said stationary contact engagement face plane, an actuator including rotatable shaft means rotatably held in stationary bearings extending between and cooperatively engaging said transporting means to move the same to and from said first and second termini and to and from an intermediate open position between the same, and attitude preserving means cooperatively engaging said transporting means adapted to maintain said movable contact assembly and the engaging faces of the contacts thereof in attitudes substantially parallel to the said stationary contact engagement face plane, throughout the transporting movement thereof, whereby said movable contacts approach and depart from engagement with said stationary contacts along paths substantially normal to the engagement faces thereof without substantial wiping action.

2,670,412
TIME LIMIT SELECTOR SWITCH
John R. Long, Hickory, N. C.
Application September 11, 1952, Serial No. 309,061
7 Claims. (Cl. 200—33)



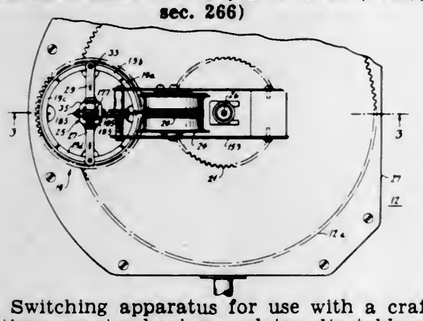
1. A time limit selector switch connected in an electrical circuit for controlling the length of time said circuit is completed to one of a plurality of electrical devices connected in parallel in said circuit, said time limit selector switch comprising a stator and a rotor, said stator having an annular flange integral therewith, a plurality of leaf spring members mounted in said flange and extending therethrough to a point adjacent the rotor, said rotor being rotatably mounted in said stator, means for rotating the rotor at any selected speed, an adjustable stud and an adjustable contact pole mounted in said rotor, said stud and pole contacting one of said leaf spring members at a time as said rotor is rotated, said stud and pole being adjustable to provide means for controlling the length of time said leaf spring members remain in engagement with said contact pole, means connecting the inner end of said contact pole to the electrical circuit, and means connecting the outer ends of said leaf spring members to said electrical devices.

2,670,413
DELAYED-ACTION SWITCH
Joseph B. Shockley, Detroit, Mich.
Application July 28, 1952, Serial No. 301,280
5 Claims. (Cl. 200—34)



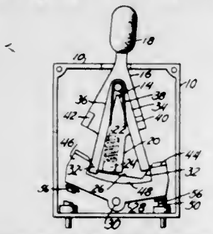
1. In combination with a standard switch mechanism including a contact blade movable to "on" and "off" positions, a slidably mounted reciprocable latch plate having a permanent sliding connection with said blade, a manually operable latch member normally separated from said latch plate adapted to engage and detain said plate in one of its positions of movement, and time-controlled means for effecting delayed disengagement of said latch member from said plate.

2,670,414
SWITCH
Roby Byron White, Jr., Irving, Tex.
Original application June 28, 1946, Serial No. 678,755. Divided and this application May 13, 1952, Serial No. 287,577
2 Claims. (Cl. 200—52)
(Granted under Title 35, U. S. Code (1952), sec. 266)



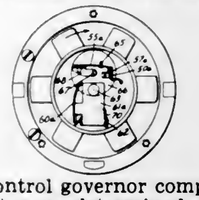
1. Switching apparatus for use with a craft-position repeater having a plate adjustable rotatably in accordance with changes in orientation of the craft, said apparatus comprising a rotary member coupled to said plate and adapted to be maintained in spaced parallel relation therewith for all positions of said plate, a plurality of coplanar conductive segments carried by said member and connected to electrical circuits to be switched, a conductive lever mounted for rotation spaced from and relative to said segments and in a plane parallel to the plane of said segments, said lever being mounted for tilting movement in a plane perpendicular to the plane of said segments, a grooved wheel carried by said lever over the fulcrum thereof, and a cable engaging the groove of said wheel to tilt said lever and close contact thereof with one of said segments upon rotation of said lever relative said cable.

2,670,415
LIMIT SWITCH
James N. Anderson, Caldwell, and Wilton S. Viall, Jr., Millburn, N. J., assignors to Curtiss-Wright Corporation, a corporation
Application May 2, 1952, Serial No. 285,657
5 Claims. (Cl. 200—70)



4. A latching snap switch comprising a pivoted rocker having a contact thereon, a fixed contact engageable thereby, said rocker being swingable through a limited angle to engage and disengage said contacts, said rocker having a platform with a hard wear-surface and abutments at each end of the platform, said rocker also having, in a plane spaced from the platform plane, a depressed portion and shoulders at each end of the depressed portion; an operating member pivoted on an axis spaced from and parallel to the rocker pivot, said member including a resilient presser engaged with the rocker platform and movable therealong upon movement of the member to exert a force on the rocker to swing it one way or the other depending on which side of the rocker center the presser bears, said member being engageable with one or the other of said rocker platform abutments to enforce rocker swinging; a pair of swingable latch arms on said member pivot, means to urge said arms apart, spaced abutments on the member, spaced from the member pivot, one disposed on the outside of each latch arm and engageable therewith, said latch arms extending to the zone of said rocker shoulders and being engageable therewith to prevent swinging of said rocker, each said latch arm being movable at times by the member abutment to disengage the corresponding rocker shoulder, and to allow rocker swinging under the urging of said resilient presser.

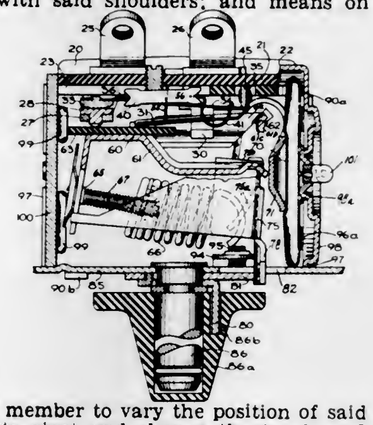
2,670,416
VARIABLE SPEED GOVERNOR
Fred A. Masheris and Kalman Tanko, Chicago, Ill., assignors to Dormeyer Corporation, Chicago, Ill., a corporation of Illinois
Application April 22, 1948, Serial No. 27,044
23 Claims. (Cl. 200—80)



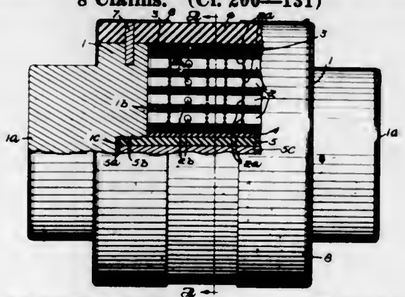
1. A speed control governor comprising a body rotatable about a predetermined axis, collector rings upon said body, a centrifugally actuated switch mounted on said body at a point spaced from the axis of rotation and including a leaf spring having an aperture therein intermediate its ends, a pair of contact elements one of which is supported on the spring adjacent one end thereof, said contacts being connected electrically with said rings, and a freely movable elongated element extending through said aperture in substantially a radial direction and upset upon the opposite ends to hold it loosely in place upon said spring, said element having a weight component less than the weight of said spring.

2,670,417
PRESSURE RESPONSIVE SWITCH
Estel C. Raney, Delaware, Ohio, assignor to Ranco Incorporated, Columbus, Ohio, a corporation of Ohio
Original application August 3, 1948, Serial No. 42,177, now Patent No. 2,556,981, dated June 12, 1951. Divided and this application March 26, 1951, Serial No. 217,580
4 Claims. (Cl. 200—83)

1. In a control apparatus, a housing comprising two oppositely disposed side walls; a control device actuating lever pivoted between said walls adjacent to one end of the housing and having a part extending toward the other end of the housing; an arm pivoted between said walls adjacent to said one end of the housing and having a part extending laterally of said extending part of said lever; a spring interconnecting said parts of said lever and arm to oppose movement of said lever in one direction, said walls having shoulders at said one end of said housing facing inwardly of said housing; a pressure responsive device comprising a plate and an expansible element on said plate, said plate abutting said shoulders to hold said element in engagement with said lever to urge said lever in one direction; a closure member attachable to said housing and extending between said walls, said closure member having a part extending over an edge of said plate to retain said plate in engagement with said shoulders; and means on said closure member to vary the position of said arm about its pivot and change the tension of said spring.



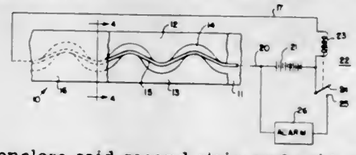
2,670,418
FUSE AND FUSE HOLDER
Frederick J. Kozacka, Amesbury, Mass., assignor to The Chase-Shawmut Company, Essex County, Mass., a corporation of Massachusetts
Application October 9, 1952, Serial No. 313,862
8 Claims. (Cl. 200—131)



1. A structure including a cartridge type high current-carrying capacity fuse comprising a casing having a relatively large cross-sectional area and a pair of coaxial cylindrical connector studs having a relatively small cross-sectional area projecting from opposite ends of said casing, and a fuse holder adapted to support said fuse and to receive said pair of connector studs of said fuse, said fuse holder comprising a pair of supports spaced a distance substantially equal to the length of said casing of said fuse, each of said pair of supports forming a divided bearing having a cylindrical bearing surface engaging one of said pair of connector studs of said fuse and having clamping means for exerting clamping pressure in a direction transversely of said casing and said pair of connector studs for firmly clamping said bearing surface against said one of said pair of connector studs of said fuse.

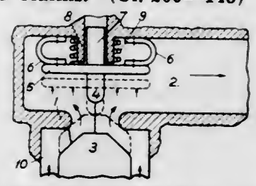
2,670,419
FIRE ALARM TAPE
Waldo H. Kliever and Lincoln G. Ekman, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 29, 1950, Serial No. 165,052
6 Claims. (Cl. 200—143)

1. A tape for use in a fire alarm system, comprising: a first flat strip of flexible insulating material; a second strip of flexible insulating material on said first strip; a fusible wire of small cross-section on said first strip and above said second strip; and a third flat strip of flexible insulating material on said first strip such



as to enclose said second strip and said wire between said first and third strips, the thickness of said second strip being greater than the diameter of the wire, providing a space for the wire, upon melting, to flow and break the wire.

2,670,420
ARRANGEMENT IN AIR BLAST CIRCUIT BREAKERS
Haakon Forwald, Valhalla, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application January 17, 1950, Serial No. 139,007
Claims priority, application Sweden January 18, 1949
3 Claims. (Cl. 200—148)

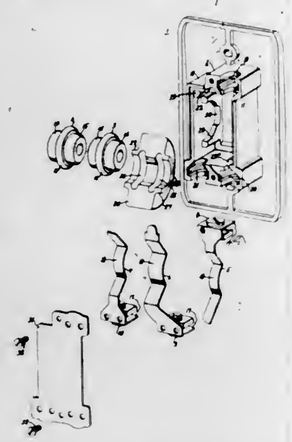


1. An air blast circuit breaker comprising an annular contact, a pin shaped contact engaging said annular contact, an arcing contact in alignment with said pin shaped contact and located on the opposite side of said annular contact and downstreamwardly of said pin shaped contact with respect to the air flow, means connecting said arcing contact conductively with said annular contact so that such parts have the same potential, and a spring member acting on said arcing contact to force it upstreamwardly against the tip of said pin shaped contact, said arcing contact being actuated by the air blast to move it downstreamwardly out of contact with said pin shaped contact, and said arcing contact being so actuated by air that has already passed through the annular contact.

2,670,421
ROLL TYPE MERCURY SWITCH
Edward R. Coutant, Stratford, Conn., asssignor to General Electric Company, a corporation of New York
Application March 29, 1952, Serial No. 279,294
5 Claims. (Cl. 200—152)

1. A mercury switch comprising an integral face plate and body member made of insulating material, a rotary trigger for operating the switch, a mercury button having a pair of cup-shaped shell terminals separated by an insulating barrier, means adapting said rotary trigger to house said mercury button while permitting portions of the peripheral wall of said mercury button shells to be exposed, means rotatably supporting said rotary trigger in said housing, said trigger supporting means including bushing-like projections on each end of said trigger and complementary bearing surfaces in said housing for engaging said trigger projections, stop means positioned on said trigger to be engageable with predetermined shoulders in said housing for lim-

iting the rotation of said rotary trigger with respect to said housing, elongated strip spring contact means for engaging the peripheral surface of said buttons, means securing one end of said spring contact means in said housing, abutment means supporting the opposite end of each of said spring contact means, a bow in the center



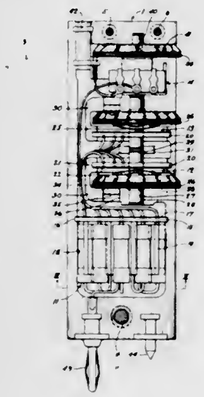
of each of said spring contact means for engaging the peripheral surfaces of said mercury contact buttons and a back cover for said housing to hold the parts in assembled relationship, and said cover when assembled being positioned to press against said one end of each spring contact means for causing the latter to exert spring pressure against the button surfaces.

2,670,422

ELECTRIC PLUG IN DECADE RESISTANCE UNIT

Richard V. Baum, Akron, Charles D. Morrill, Cuyahoga Falls, and Irving B. Osofsky, Akron, Ohio, assignors to Goodyear Aircraft Corporation, Akron, Ohio, a corporation of Delaware

Application September 15, 1952, Serial No. 309,716
7 Claims. (Cl. 201—48)



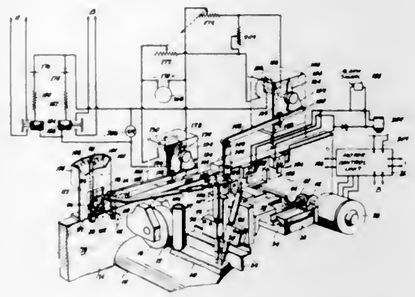
1. A variable electric plug-in decade resistance unit comprising an elongated cylindrical housing made of plastic material including a precision resistor assembly, a plurality of decade switches and a linear potentiometer all wired in series and mounted one above the other within the housing, said decade switches and said potentiometer having a common axis and each being provided for operation with a thumb wheel extending at least partially beyond the outer circumference of the housing, and means secured in the housing and attached to both ends of the resistance wiring for plugging the unit into an electric circuit.

2,670,423

AUTOMATIC SEAM FOLLOWING DEVICE FOR WELDING APPARATUS

Frederic M. Darner, Shaker Heights, Ohio, and Walter S. Schaefer, East Gadsden, Ala., assignors to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey

Application January 16, 1951, Serial No. 206,256
7 Claims. (Cl. 219—6)



2. In apparatus for manufacturing pipe from a tubular blank having a longitudinal cleft, a stationary welding chuck through which said blank is advanced axially, a welding device mounted on said chuck for movement transverse to the path of advancement of the blank and operable when aligned with said cleft to close the cleft by welding a seam along it as the blank advances, reversible motor means for driving said device transversely of said path, a device engaging the cleft as it approaches the welding device, said cleft-engaging device being mounted on said chuck and movable transversely of the path of advancement of the blank to follow variations in the lateral position of the cleft; a first lever having an arm operatively connected to said cleft engaging device for movement of the lever concurrently with and proportionally to the transverse movement of the cleft engaging device; a second lever having an arm operatively connected to said welding device for movement of the second lever concurrently with and proportionally to the transverse movement of said welding device, said second lever having a normal positional relationship relative to said first lever indicative of alignment of the welding device with the cleft, motor control means connected to said levers at points spaced from the connections of said devices to said levers, said motor control means being responsive to the relative positions of the levers and operatively connected to said motor means, said motor controlling means being effective upon displacement of said first lever from said normal positional relationship to cause operation of said motor means in a direction to move said welding device back into alignment with the cleft and thereby to move said second lever to restore said normal positional relationship.

2,670,424

METHOD OF ELECTRIC ARC WELDING OF METAL OR ALLOY STUDS AND THE LIKE TO METAL OR ALLOY PLATES AND THE LIKE

Harold Martin, East Molesey, England

No Drawing. Application May 26, 1950, Serial No. 164,606. In Great Britain November 10, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires November 10, 1962
5 Claims. (Cl. 219—10)

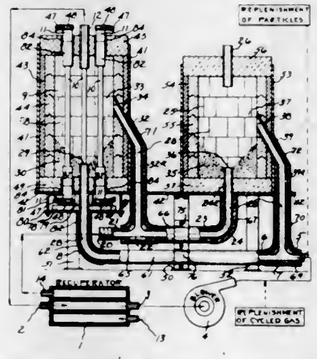
1. A method of end-welding metallic objects to metallic surfaces by electric arc welding, comprising establishing conducting relation between one end of a metallic object having such end completely metallized with a metallic material of higher electrical conductivity than that of the object and selected from the group consisting of aluminum, titanium, vanadium and manganese and their alloys, and the surface to which it is to be welded, passing welding current through the object and the surface and forming an arc between them, maintaining the arc for a predetermined period so that the welding end of the object and the crater formed in the surface may acquire welding temperatures, and moving the heated object into contact with the crater in the surface, the flow of current in the welding circuit through the object and the surface being maintained as long as necessary to secure a satisfactory weld.

2,670,425

GAS HEATER

H. Nathan Stone, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application May 1, 1952, Serial No. 285,578
20 Claims. (Cl. 219—39)



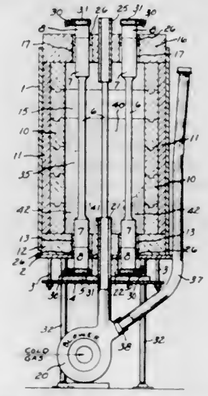
1. A gas heating apparatus comprising a first refractory lined fluidizing chamber, electrical resistance heating means in said chamber, a first refractory pipe having an opening into said chamber well above the bottom thereof and extending downwardly from said opening, said chamber having an upper opening well above the level of the opening into said chamber of the first refractory pipe, said chamber also having an opening in the bottom thereof, a second refractory lined fluidizing chamber, a second refractory pipe having an opening into said second chamber well above the bottom thereof and extending downwardly from said opening, said second chamber having an upper opening well above the level of the opening into said second chamber of the second refractory pipe, said second chamber also having an opening in the bottom thereof, a third refractory pipe connected to the opening in the bottom of the first chamber, a fourth refractory pipe connected to the opening in the bottom of the second chamber, a first refractory T-union two of the branches of which are connected respectively to the second refractory pipe and to the third refractory pipe, and a second refractory T-union two of the branches of which are connected respectively to the first refractory pipe and to the fourth refractory pipe, whereby when the upper opening of the first chamber is connected to a blower, the blower is connected to the first T-union, the second T-union is connected to a supply of gas to be heated and the chambers are partially filled with particles of refractory material, the apparatus will function as a gas heater and the gas to be heated will not come in contact with the electrical resistance heating means.

2,670,426

GAS HEATER

H. Nathan Stone, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application May 1, 1952, Serial No. 285,579
9 Claims. (Cl. 219—39)



7. A gas heating apparatus comprising a refractory lined fluidizing chamber, elongated electrical resistors extending vertically through said chamber, said chamber having an upper opening and said chamber having an opening in the bottom thereof, and a quantity of refractory particles in said fluidizing chamber, said particles being between 24 grit size and 600 grit size, whereby when gas is forced through said chamber from the opening in the bottom thereof to the upper opening at sufficient velocity some of the particles will be fluidized and heat transfer from the electrical resistors to the gas will be accelerated.

2,670,427

ILLUMINATED SCREW DRIVER

Stewart J. Barlet and Allen H. Whitmore, Los Angeles, Calif.

Application February 12, 1951, Serial No. 210,594
2 Claims. (Cl. 240—6.46)

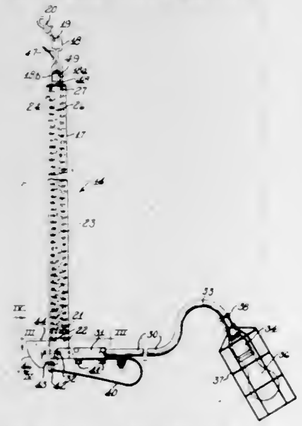
1. An illuminated screw driver comprising a long hollow handle forming a battery housing, a metal sleeve lining the handle and projecting from the back end thereof, a metal cap secured on the projecting end of the sleeve and closing said end of the handle, an elongate tubular driver shank forming an integral continuation of the sleeve and extending from the other end of said handle, said shank having a portion of its for-

ward end enlarged in diameter to form a light bulb receiving socket open at its free end, an electric terminal in the bottom of the socket for contact with one side of said bulb, the other side of the bulb being grounded to the socket, means for conducting current to said terminal from one



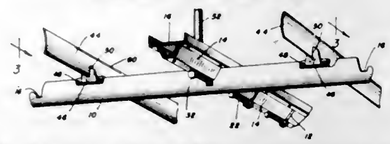
side of a battery in the handle, a hollow cover for and secured to the open end of the socket, a screw driver bit extending from said cover, said cover having forwardly directed light emitting openings at opposite sides of and in close proximity to the working edge of the bit, and switch means for grounding the other side of said battery.

2,670,428
LOADING LIGHT
Ernest H. Olson, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey
Application May 10, 1951, Serial No. 225,491
5 Claims. (Cl. 240—67)



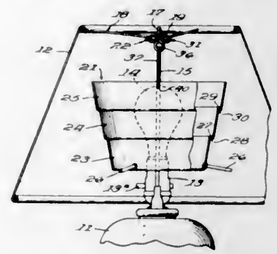
1. A loader's light comprising a pair of telescoping members, a spring normally urging said telescoping members to fully telescoped position, a lamp arm pivotally connected to one of said members, a locking member pivotally connected to the other of said member to support the light, a spring carried by said lamp arm having a cam wheel on the end thereof, a cam carried by said one of said members and having a cam surface engageable with said cam wheel, said spring and said cam operable to normally bias said lamp arm into predetermined angular alignment relative to said telescoping members and being automatically yieldable in response to a predetermined force imparted to said arm in the general direction of telescoping movement of said members.

2,670,429
ELECTRIC LIGHTING FIXTURE
Edwin D. Tillson, Evanston, Ill., assignor to Lighting Products, Inc., Highland Park, Ill., a corporation of Illinois
Application December 21, 1949, Serial No. 134,301
7 Claims. (Cl. 240—78)



1. An electric lighting fixture comprising lamps and a shielding louver system therefor, the louver system comprising transverse and longitudinal blades, the transverse blades having a common slotted central holder and individual means for removably securing each of the transverse blades in one of the slots, and longitudinal blades extending over a plurality of the transverse blades and means for supporting them in upright position at the upper edges thereof parallel with the central holder.

2,670,430
LAMP FIXTURE
Oliver Leonard, Glendale, Calif.
Application January 27, 1951, Serial No. 208,213
5 Claims. (Cl. 240—81)

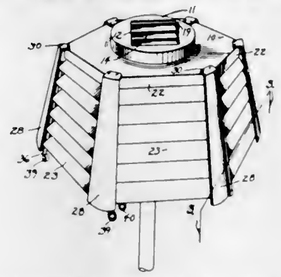


1. A fixture for attachment to a lamp having an upright shade supporting harp embracing an electric bulb socket, comprising: a plurality of annular shell-like shield elements telescopically journaled to one another to form a vertically extensible and collapsible light shield adapted to surround said socket; the lowermost of said elements having a bottom wall formed with an opening to accommodate said harp and said socket; said bottom wall being adapted to rest upon a part of said socket; a flexible member connected with the uppermost of said elements; and supporting means for said flexible member adapted to be mounted on said harp above said elements; said flexible member slidably supported by said supporting means and having an end portion depending therefrom and adapted to be manipulated for moving said flexible member relative to said supporting means to raise and lower those of the shield elements joined to said lowermost element.

2,670,431
MECHANICAL LAMP SHADE
Joe Cecil Bullock, Des Moines, Iowa
Application August 1, 1951, Serial No. 239,680
4 Claims. (Cl. 240—108)

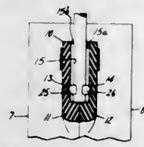
2. In a lamp shade, a top, a plurality of depending members secured to said top, a ring secured to the lower ends of all of said depending members; said depending members being wider

at their bases than at their tops; said ring being larger in diameter than said top, a plurality of shutter vanes pivotally secured between each two depending members; said shutter vanes between any two depending members being of the same



length, and means for pivotally moving said shutter vanes comprising a bar pivotally secured to each of said shutter vanes between any two depending members, a ring secured to the lower end of said bar, and a second ring secured to said ring member adjacent to said bar.

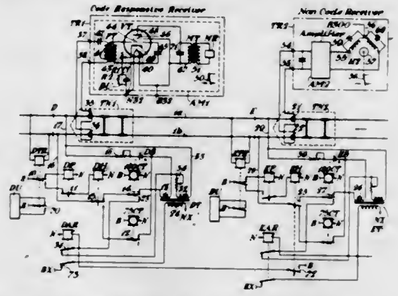
2,670,432
LAMP SOCKET AND HARP ASSEMBLY
George B. Benander, Oaklawn, R. I., assignor to General Electric Company, a corporation of New York
Application October 24, 1951, Serial No. 252,935
2 Claims. (Cl. 240—148)



1. In combination, a lamp socket having an outer shell split longitudinally to form two shell parts, bulges integral with the shell parts at the seam between such parts which extend longitudinally along the opposed sides of the shell and are contoured to provide vertically extending bores open at their upper end, said bulges being split longitudinally in line with the split between the shell parts to provide complementary bulge members integral with each shell part, recessed walls at the lower ends of said bores which define notches which extend into the walls of the bores at right angles to the plane of the split between the bulge members, spring clips clamped over said bulges to yieldingly hold the shell parts and bulge members together, and a harp having free ends positioned in said bores, said harp ends having diameters equal to the diameters of said bores and outwardly projecting detents positioned in said notches, said spring clips being adapted to yield to permit separation of the shell parts and bulge members so that the harp ends may be pushed down through the bores to bring the detents into said notches.

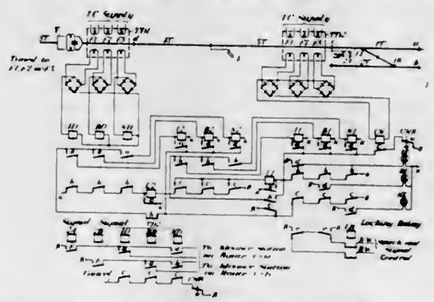
2,670,433
CAB SIGNAL APPARATUS
Charles B. Shields, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application June 18, 1949, Serial No. 100,027
7 Claims. (Cl. 246—63)

1. In combination, a section of railway track through which trains equipped with cab signal apparatus responsive to alternating current flowing in the track rails are operated; said cab signal apparatus of at least one of said trains including an inductor, an amplifier and a relay operable in response to a preselected root mean square value of alternating current of a selected frequency flowing in the rails; said cab signal apparatus of at least one other of said trains including an inductor, an amplifier and a relay operable in response to a given code rate of occurrence of a given variation of the root mean square value of the alternating current of said selected frequency flowing in the rails; said given variations being in the form of a square wave type modulation of said alternating current of



said selected frequency; an alternating current source of said selected frequency, a coding device operable to cyclically operate a pair of contacts at said given code rate, circuit means including said source and said pair of contacts for cyclically supplying to the rails of said section alternating current of a high and a low energy level, the modulation of said alternating current being of the square wave type, said low energy level of current being of at least said preselected root mean square value, and said high energy level of current being of a root mean square value greater than said preselected value by at least said given variation.

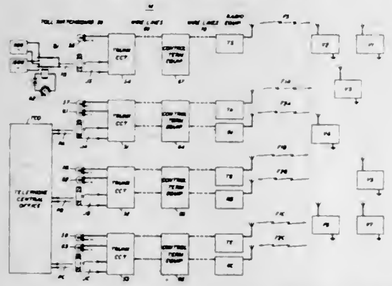
2,670,434
TRAIN DESCRIBER SYSTEM
Henry J. Groenendale, Forest Hills, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application June 26, 1951, Serial No. 233,616
1 Claim. (Cl. 246—124)



An automatic train describer system for identifying trains which pass over diverging routes in a track layout which includes a track switch and a signal for each route for governing train movements over said switch, comprising a marker coil on each train having distinctive electrical characteristics which identify its route, two inductive reporting devices, one adjacent said signals and one at the entrance to an approach zone in

the rear of said signals, each controllable by a marker coil on a passing vehicle, a wayside indicator for storing an indication identifying the route of a train occupying said approach zone, the reporting device at the entrance to said approach zone being effective when a marker coil is in proximity thereto to transmit a route indication for storage in said indicator, the reporting device adjacent said signals being effective when a marker coil is in proximity thereto to cancel said stored indication, and control means for governing the operation of said switch and signals controllable in accordance with the route indication stored in said indicator.

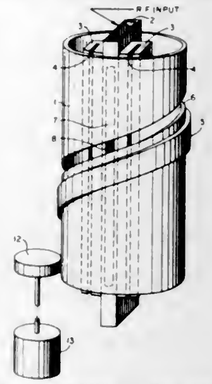
2,670,435
RADIOTELEPHONE COMMUNICATION SYSTEM
Doren Mitchell, Martinsville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 2, 1951, Serial No. 209,015
3 Claims. (Cl. 250—6)



3. A radiotelephone communication system having a plurality of radiant energy communication channels allotted thereto for the transmission of carrier waves, said system having a first communication station provided with means for transmitting selective calling signals over an assigned one of said channels, a second communication station comprising in combination radiotelephone transmitting and receiving equipments for transmitting and receiving carrier waves, channel-selecting means for effecting the selective tuning of said equipments for operation with any one of said channels except said assigned channel, means responsive to an idle condition at said second station for effecting the tuning of said receiving equipment to said assigned selective calling channel, an indicating device, a selective signal operated device responsive to the reception of an assigned selective calling signal by said radiotelephone receiving equipment for operating said indicating device, a carrier operated device having a time delay, said carrier operated device being responsive to carrier current received over a busy channel selected by said channel-selecting means for maintaining said indicating device in an operated condition after it has been operated by said selective signal operated device.

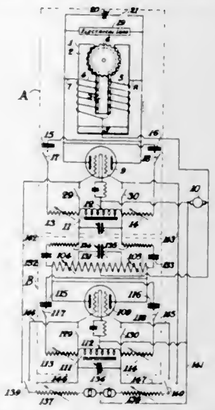
2,670,436
HELICAL SLOT SCANNER
Allen S. Dunbar, Los Altos, Calif.
Application May 3, 1950, Serial No. 159,801
10 Claims. (Cl. 250—33)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. Electromagnetic propagating apparatus comprising in combination: a wave guide having a long, narrow slot in the wall thereof, a hollow cylinder surrounding said wave guide and having its inner wall surface in contiguous relation to the wave guide wall forming the said slot, said hollow cylinder also having a long narrow slot in the wall thereof, one of said slots being relatively straight and the other slot following a helix, the two slots thereby overlapping to form a radiating



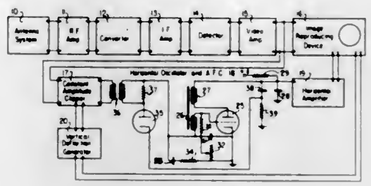
aperture, a choke means extending along the sides of said wave guide slot for effectively placing a low impedance across the finite gap between the sides of said wave guide slot and the contiguous inner surface of the cylinder, means coupled to the member containing the helical slot for rotating same thereby causing said radiating aperture to traverse a straight line.

2,670,437
ELECTRONIC TUBE OSCILLATION SYSTEM
Montford Morrison, Rochester, N. Y.
Application January 10, 1948, Serial No. 1,595
8 Claims. (Cl. 250—36)



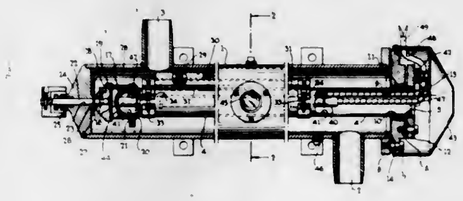
2. In an electrical oscillation system set to operate at a normal frequency under changing load, a first grid controlled electron discharge tube oscillator having in the plate circuit thereof a load subject to change, said oscillator having a frequency subject to change with change in said load, a second grid controlled electron discharge tube oscillator set to operate when isolated at frequency substantially less than twice said normal frequency, said second oscillator coupled to first said oscillator and said second oscillator having a frequency-change characteristic opposing frequency-changes in first said oscillator.

2,670,438
AUTOMATIC FREQUENCY CONTROL CIRCUIT
George W. Fyler, Lombard, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application July 10, 1948, Serial No. 38,025
8 Claims. (Cl. 250—36)



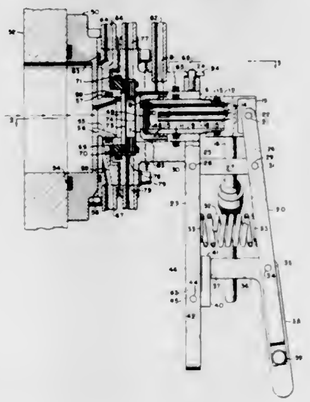
6. A control system for holding a sawtooth wave generator which produces a sawtooth wave including trace and retrace portions in step with synchronization pulses, including in combination, differentiating means coupled to the generator for producing from the sawtooth wave voltage pulses which occur during each retrace portion thereof, resonant means for producing from each synchronization pulse a voltage wave having first and second portions of opposite polarity, voltage combining means connected to said differentiating means and to said resonant means for combining the voltages produced thereby so that the voltage pulse is effectively added to said first portion of said wave and subtracted from the second portion thereof, whereby the combined voltage is relatively large when said voltage pulse occurs at the beginning of said voltage wave and is relatively small when said voltage pulse occurs at the end of said voltage wave, and means for controlling said generator so that the frequency thereof varies inversely with the average amplitude of said combined voltage.

2,670,439
APPARATUS FOR IRRADIATING LIQUIDS
Harold E. Darney, Bloomfield, N. J., assignor to Hanovia Chemical and Mfg. Company, Newark, N. J., a corporation of New Jersey
Application July 5, 1950, Serial No. 172,127
5 Claims. (Cl. 250—43)



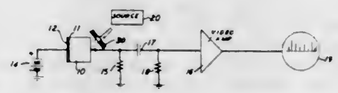
1. Apparatus for irradiating a liquid comprising concentric jackets forming a chamber therebetween, a supply pipe connected near one end of the outer jacket and an exhaust pipe connected to the opposite end thereof, the inner jacket consisting of an ultraviolet ray transmissive material, an ultraviolet ray lamp within said inner jacket, a ferrule clamped to one end of said inner jacket and having a rotatable shaft extending therefrom substantially along the line of the axis of said inner jacket and through an end wall of said outer jacket, a supporting arm connected to and rotatable with said shaft, a wiper pivotally mounted to said arm, and a band clamp carried by said wiper, said clamp being spaced from the pivot mounting of said wiper and drawn around said inner jacket.

2,670,440
ACCELERATOR TARGET HOLDER
Carroll M. Gordon, San Pablo, and Charles A. Corum, Berkeley, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application November 26, 1952, Serial No. 322,654
14 Claims. (Cl. 250—49.5)



1. Accelerator target apparatus comprising a fluid-cooled, beam collimating flange assembly adapted to be hermetically mounted on the exit wall of an accelerator, said assembly including a relatively massive, conically apertured wall flange adjacent the exit beam of said accelerator, an intermediate flange plate maintained in peripherally sealed relation with said wall flange and having a substantial surface area nearest the latter flange, sufficiently spaced therefrom to provide a coolant chamber, and conduit means connected to said chamber for the circulation of a fluid coolant therethrough.

2,670,441
ALPHA PARTICLE COUNTER
Kenneth G. McKay, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 7, 1949, Serial No. 114,303
1 Claim. (Cl. 250—83.3)



An alpha particle detector comprising a wafer of N conductivity type germanium, a point contact bearing against one face of said body, a substantially ohmic connection to the opposite face of said body, a source connected between said

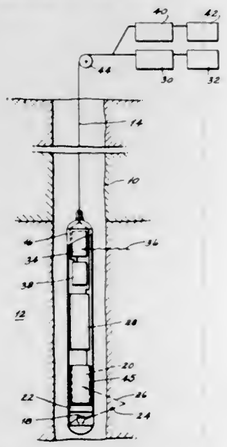
contact and connection for establishing a biasing field of the order of two volts in the reverse direction across the barrier layer below said contact, and an indicating circuit including a high frequency amplifier having its input circuit connected between said contact and said connection, the capacitance of said input circuit being very large in comparison with the capacitance of said barrier layer.

2,670,442

RADIOACTIVITY BOREHOLE LOGGING APPARATUS

Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application April 25, 1950, Serial No. 157,903
5 Claims. (Cl. 250—83.6)



1. A device for logging a bore hole comprising an elongated instrument housing adapted to be passed through the bore hole while suspended on a conductor cable, a source of neutrons and gamma rays disposed in a fixed position near the bottom of said housing, a detector for secondary radiation produced by neutron bombardment of the surrounding formations mounted above and in close proximity to said source, a layer of gamma ray absorbing material between said source and said detector, a natural gamma ray detector disposed in a fixed position in the upper end of said housing and separated from said source sufficiently far to be out of reach of gamma rays from the source scattered in the material around said housing, means within the housing for amplifying the outputs of the two detectors and transmitting said outputs upwardly over said cable, and means at the surface for recording the outputs of said two detectors in correlation to the depth of the instrument in the bore hole.

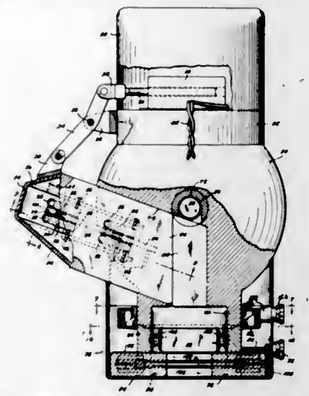
2,670,443

RADIATION BEAM FORMING UNIT

John C. Pennock, Marblehead, and Albert J. Bacchieri, Dedham, Mass., assignors to Tracerlab, Inc., Boston, Mass., a corporation of Massachusetts

Application February 28, 1951, Serial No. 213,174
11 Claims. (Cl. 250—105)

1. A radiation beam forming unit which comprises a shield having an internal chamber for holding a radioactive source, said shield having a collimating slot extending from an external wall into said chamber for forming radiations from said source into a beam and a second slot transversely intersecting said collimating slot, and a shutter movably mounted in said second slot, said shutter being shiftable from a closed position shielding said collimating slot and interrupting said beam to another position leaving



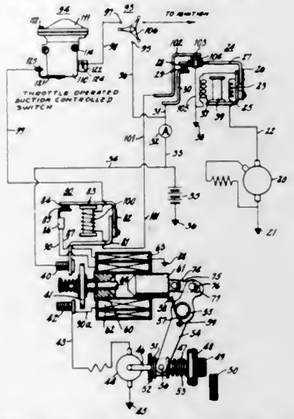
said slot clear for the passage of said beam, said shield and shutter being composed of radiation absorbing material of sufficient thickness to reduce the intensity of radiation at the outer surface of said unit to a tolerable level and said second slot being so positioned that in normal use of said unit said shutter will be urged to its closed position by the force of gravity.

2,670,444

STARTER CONTROL APPARATUS

Paul L. Schneider, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application June 22, 1951, Serial No. 233,031
20 Claims. (Cl. 290—38)



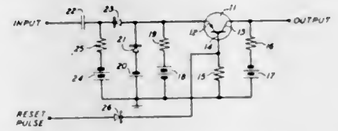
1. In a starting apparatus for internal combustion engines having a starting motor, a current source and a circuit for connecting said motor with the current source, a control switch for controlling said circuit, manually operable means for closing said switch, a member operable by the engine, control means movable by said member for controlling the effectiveness of said manually operated means, said control means normally occupying a position to permit closing of the switch by said manually operable means and movable when the engine is self-operative to a position to render the manually operable means ineffective, means permitting movement of the engine operated member without accompanying movement of the control means and means operable by the manually operable means to enable a movement of the control means to a position where it prevents closing of the switch to be effected.

2,670,445

REGENERATIVE TRANSISTOR AMPLIFIER

Jean H. Felker, Livingston, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 6, 1951, Serial No. 255,043
7 Claims. (Cl. 307—88)



3. A regenerative pulse amplifier which comprises, in combination, a flip-flop circuit comprising a transistor having emitter, collector, and base electrodes, a base resistance common to the emitter-base and the collector-base paths of said transistor, a resistance and a source of direct voltage connected in series between said emitter electrode and said base resistance, and an asymmetrically conducting device and another source of direct voltage also connected in series between said emitter electrode and said base resistance, the quiescent direct voltage level of said base electrode being between the respective direct voltages supplied by said sources and said asymmetrically conducting device being poled in the direction of positive emitter current flow, circuit means to supply signal pulses to said emitter electrode to trigger said flip-flop circuit to its high current state, and circuit means to supply a regular succession of pulses to said base electrode to reset said flip-flop circuit to its low current state and to regulate the output pulses produced thereby.

2,670,446

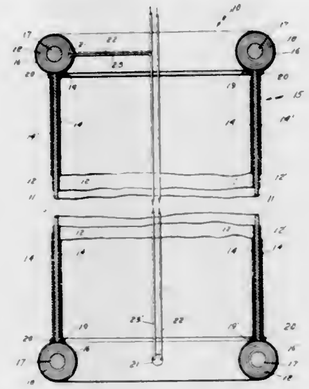
MAGNETOSTRICTIVE TRANSDUCER

Edwin E. Turner, West Roxbury, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application March 27, 1952, Serial No. 278,839
10 Claims. (Cl. 310—26)

1. A magnetostrictive transducer comprising a tubular magnetostrictive element whose inner and outer surfaces are covered with a thin coating of insulation, first and second cylindrical electrically conductive layers covering said inner and outer coated surfaces, respectively, of said element, an electrically conductive member mounted one at each end of said element, each of said conductive members connecting together said first and second conductive layers at the corresponding end to form a single conductive turn surrounding said magnetostrictive element and closely spaced therefrom, and a toroidally wound coil positioned within each of said conductive members, said coils being connected in series aiding.

10. A magnetostrictive transducer comprising a tubular casing made of a material having a density and compressional wave impedance substantially equal to that of the medium in which said transducer is placed and containing a pressure-equalizing liquid, a tubular magnetostrictive element mounted within said casing, said element having its inner and outer surfaces covered with a thin coating of insulation, first and second cylindrical electrically conductive layers covering said inner and outer coated surfaces, respectively, of said element, a split toroidal electrically conductive shell having inner and outer flanged portions and mounted one at each end of said element, said inner and outer flanged por-



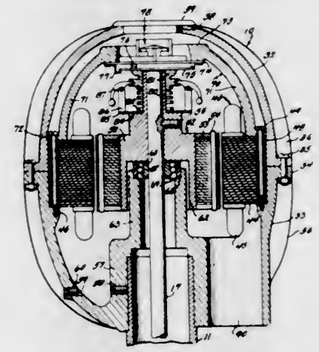
tions of said shell being connected to said first and second conductive layers, respectively, to form a single conductive turn surrounding said magnetostrictive element and closely spaced therefrom, a toroidal magnetic core, and a coil wound about said core, said coil and core being positioned within each of said toroidal shells and in close coupling relationship with said conductive turn, said coils being connected in series aiding.

2,670,447

ELECTRIC MOTOR INSTALLATION

Paul V. Harmon, Nashville, Tenn., assignor to Precision Parts Corporation, Nashville, Tenn., a corporation of Tennessee

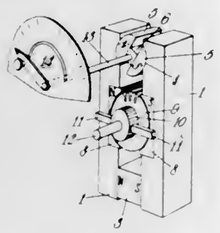
Application May 26, 1950, Serial No. 164,489
6 Claims. (Cl. 310—66)



1. An electric motor installation comprising an electric motor having a stator and a rotor, a casing for said motor comprising complementary casing sections divided transverse to the axis of the motor and substantially midway of the height of said stator, one of said sections having an internal shoulder on which said stator rests, said shoulder projecting inwardly and said casing sections below the plane of division there-

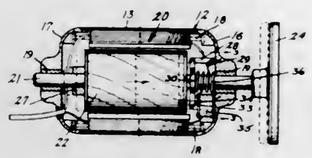
of substantially fitting said stator, a single yoke in the upper of said casing sections provided at its lower ends with outstanding feet resting on said stator, switch means carried by said yoke, and common fastening elements passing through said feet, through said stator and directly into said shoulders to fix said yoke and said stator directly on said shoulder.

2,670,448
ELECTRIC MOTOR
John Bell and Frank Herbert Cannon, Beckenham, England, assignors to Muirhead & Company Limited, Beckenham, England
Application January 23, 1951, Serial No. 207,400
Claims priority, application Great Britain
January 27, 1950
1 Claim. (Cl. 310—154)



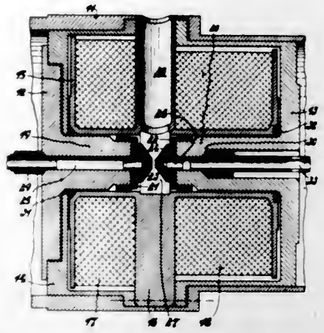
In an electric motor of the kind having a wound rotor and a permanent field magnet system of high efficiency magnet steel associated with flux-conducting members conveying the flux from the magnet to pole-pieces adjacent to the rotor, the improvement which consists in providing a further permanent magnet between the flux-conducting members, which is adjustable to a number of fixed positions so that the field at the pole-piece may be adjusted to any value in the range between the sum and the difference of the fluxes of the two magnets for the purpose of controlling the speed of the motor.

2,670,449
ELECTRIC MOTOR
Sam Brice, Spokane, Wash., assignor of one-half to Thomas J. McMahon, Spokane, Wash.
Application October 4, 1952, Serial No. 313,140
1 Claim. (Cl. 310—209)



In an electrically operated motor having a reciprocable driving shaft adapted to shift forwardly when energized and engage a mechanical clutch, said shaft having a rotor fixedly secured thereon, means for shifting said rotor rearwardly when the motor is de-energized comprising a resiliently supported pressure foot disposed to bear against said rotor and move it rearwardly, and an electrically energized coil having a plunger secured to said pressure foot and actuated by said coil to shift said pressure foot away from said rotor, said coil being electrically connected to the motor energizing circuit to energize the coil simultaneously with the motor.

2,670,450
ELECTRON MICROSCOPE
Jan Bart Le Poole, Delft, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application May 23, 1952, Serial No. 289,685
Claims priority, application Netherlands
June 15, 1951
2 Claims. (Cl. 313—84)



1. An electron microscope comprising an electromagnetic objective lens including a pair of pole shoes each of which have a bore and including means to produce a magnetomotive force which increases the magnetisation in the pole shoes to the limit of saturation, said pole shoes being spaced apart a distance at which the foci of the lens are located between the pole shoes and which does not exceed a value d_{max}, which is expressed in millimetres by the formula:

$$d_{max}=1.5\sqrt{\frac{E}{100}\left(1+\frac{E}{1000}\right)}$$

where E designates the voltage in kvs., by means of which the electrons are accelerated, the diameter of the bore being not more than one-third the spacing between the pole shoes.

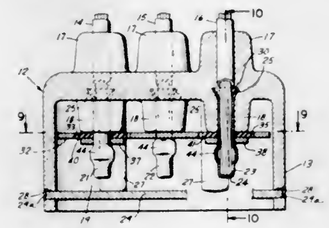
2,670,451
SHORT ARC HIGH-PRESSURE VAPOR DISCHARGE LAMP
George A. Freeman, East Orange, Emile M. Bellott, Bloomfield, and Hugh D. Fraser, Verona, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 12, 1950, Serial No. 138,132
1 Claim. (Cl. 313—184)



A high pressure discharge device comprising a vitreous envelope, a pair of commercially pure tungsten leading-in and supporting conductors hermetically sealed to said envelope, an ionizable medium comprising an inert gas at a pressure of

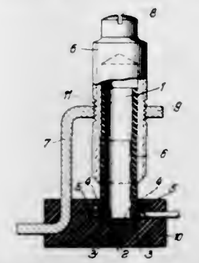
a few millimeters and a vaporizable metal in said envelope for initiating and sustaining a discharge and which attains a pressure greater than atmospheric during operation of said device, an electrode at the end of each of said leading-in conductors and between which an arc discharge occurs during operation of said device, each of said electrodes having an inner end tapered for concentrating the discharge at its tip and of high and pure grain density to facilitate the dissipation of the heat of the discharge from its end, and having a peripheral layer of longitudinally extending refractory metal wires carried by the end of said leading-in conductor adjacent its tip and held in place by a surrounding winding of refractory metal to provide a plurality of interstices for facilitating the formation of cathode hot-spots to assist in initiation of the discharge, and said electrode including a strip of metal of low work function adapted to emit electrons at low temperature and initiate the discharge and to secure the peripheral layer of longitudinal wires in place.

2,670,452
PROTECTIVE DEVICE
Edward H. Yonkers, Glencoe, and Ronald F. Huber, Evanston, Ill., assignors to Joslyn Mfg. & Supply Co., Chicago, Ill., a corporation of Illinois
Application November 14, 1952, Serial No. 320,474
10 Claims. (Cl. 313—231)



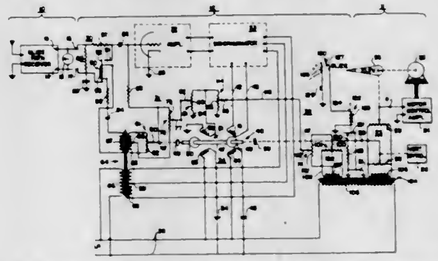
1. A protective device comprising an insulating housing, a plurality of spaced parallel conductors extending into said housing and held in spaced parallel insulated relationship by said housing, a conducting plate having a width and length approximating the dimensions of a plane bounded by the interior walls of said housing and perpendicular to the axes of said conductors, means defining a plurality of openings in said plate, the number of said openings corresponding to the number of said conductors, at least one of said openings having a diameter several times the diameter of another of said openings, the spacings between the centers of said openings and their position in said plate corresponding to the spacings between the centers of said conductors extending into said housing and their position in said plane, means for positioning said plate in said housing with the axes of said conductors passing perpendicularly through the centers of said corresponding openings in said plate, an insulating washer of slightly smaller diameter than said one opening disposed in said one opening coaxial with the conductor extending through said opening, a conducting washer in face to face engagement with said insulating washer to define an arc discharge path between the periphery of said conducting washer and the perimeter of said one opening, and means for electrically connecting said washer to the conductor coaxial therewith and said plate to said other of said conductors.

2,670,453
CONTINUOUSLY VARIABLE CONDENSER
Eugen Leuthold, Neuhausen, Switzerland, and Eduard Blum, Villingen, Schwarzwald, Germany, assignors to Saba Schwarzwalder Apparate-Bau-Anstalt August Schwer Sohne, G. m. b. H., Villingen-Schwarzwald, Germany
Application February 13, 1952, Serial No. 271,376
Claims priority, application Germany
May 31, 1949
10 Claims. (Cl. 317—249)



1. A condenser, comprising, in combination, a support made of an electrically non-conductive material; a tube of electrically non-conductive material fixedly mounted on said support and extending therefrom so that one end of said tube is distant from said support; an electrically conductive lining located on the inner surface of said tube; an electrically conductive sleeve loosely mounted on said tube about the outer surface thereof and extending beyond said one end of said tube, said sleeve having an outer threaded surface extending along the length thereof; and an electrically conductive, springy arm fixedly mounted on said support at one side of said tube and sleeve and having an end portion engaging and pressing against said outer threaded surface of said sleeve at a part thereof located beyond said one end of said tube on the side thereof opposite from said support, so that said sleeve may be adjustably moved on said tube by turning said sleeve with respect to said end portion of said arm and so that said arm tends to tilt said sleeve on said tube to provide a substantial frictional engagement between said sleeve and tube, said arm thus serving simultaneously as sole outer support for said sleeve member and as a contact member therefor.

2,670,454
INSTRUMENT LANDING APPARATUS AND METHOD
Theodore J. Wilson, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 17, 1949, Serial No. 116,256
9 Claims. (Cl. 318—16)



7. In aircraft control apparatus, in combination: an automatic pilot including means for po-

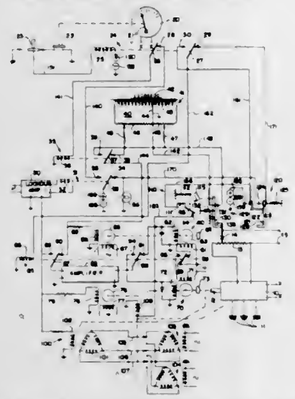
sitioning the elevators of a craft in accordance with electrical signals; a radio receiver for giving an output which varies in magnitude, sense, and rate of change with vertical departure of the craft from a selected path; and a coupling unit, for regulating said automatic pilot in accordance with the output of said receiver, said coupling unit comprising a source of voltage suitable for supplying signals to said elevator positioning means, motor means for adjusting the voltage supplied by said source in accordance with the energization of said motor means to give an electrical signal; means energizing said motor means in accordance with the output of said receiver only as long as said output remains within predetermined limits, so that the speed of said motor means varies within limits in accordance with said output; means modifying said electrical signal in accordance with the speed of said motor means, and means supplying the signal so modified to said elevator positioning means.

2,670,455

CONTROL SIGNAL MODIFYING MEANS IN RADIO CONTROLLED FLIGHT

Oscar Hugo Schuck, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application August 6, 1951, Serial No. 240,597
9 Claims. (Cl. 318—19)



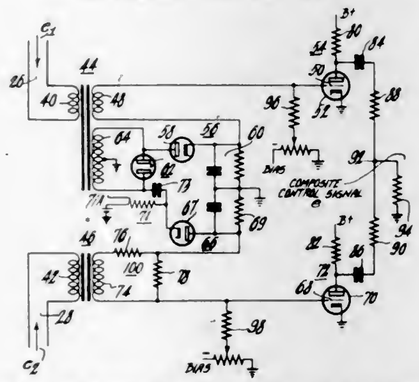
1. Apparatus for monitoring the progress of a process in which one or more conditions are to be varied in such a fashion that a first quantity computed therefrom varies according to a schedule made up of a series of portions each of which requires a pre-determinable adjustment of a first adjustable computer element, and in each of which said second quantity varies through a range ending at a fixed value thereof, said apparatus comprising, in combination: the first computer element; a signal receiver adapted to be connected to a signal transmitter to comprise a balanceable network giving an output according to disagreement between the receiver and the transmitter; means connecting said receiver for adjustment concurrent with adjustment of said first element; a plurality of settable signal transmitters pre-set in accordance with said pre-determinable adjustments of said first element; switching means connected to said receiver and said transmitters for successively completing a plurality of such balanceable networks including said receiver and successive ones of said transmitters; further computer elements including elements adapted for adjustment in accordance with said conditions; means actuated in accordance with the adjustments of said computer elements to give a first output proportional to the first quantity and second output proportional to the second quantity; means, including an attenuator adjustable through a range between a normal condition of minimum attenuation and an operated condition of maximum attenuation, for variably supplying said first output to condition controlling means; motor means for adjusting said first element and said attenuator; means effective when said second output assumes a value corresponding to said fixed value of said second quantity for causing said motor means to adjust said attenuator to said condition of maximum attenuation; first limit control means connected to said first switching means and to said motor means, and actuated when said condition of maximum attenuation is reached, for preventing further adjustment of said attenuator by said motor means, for causing operation of said switching means to substitute the succeeding signal transmitter in said balanceable network, and for causing said motor means to adjust said first element and said signal transmitter in accordance with any unbalance of said network; means connected to said network and responsive to balance thereof to prevent further adjustment of said first element by said motor means and to cause said motor means to adjust said attenuator to said condition of minimum attenuation; and second limit control means connected to said motor means and actuated when said condition of minimum attenuation is reached, for preventing further adjustment of said attenuator or said first element by said motor means.

2,670,456

SWITCHING SYSTEM FOR DUAL-SPEED ELECTRIC SERVO MECHANISM

Arthur F. Naylor, Haddonfield, and Arnold M. Spielberg, Camden, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application June 30, 1950, Serial No. 171,442
11 Claims. (Cl. 318—30)



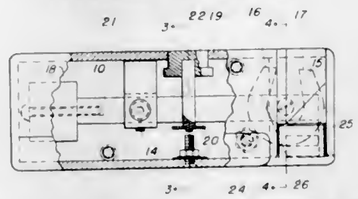
1. A dual speed servo mechanism system for bringing an object into positional corespondence with a control element comprising means to derive a first error signal dependent on the displacement of said object from a position of correspondence with said element, means to derive a second high speed error signal of greater positional correspondence periodicity than said first signal, means to combine said signals continuously into a control signal comprising separate first and second amplifiers respectively for said first and second error signals, means to control the respective gains of the two amplifiers the one with respect to the other dependent upon the displacement of said object, said gain control means comprising two circuits each having a rectifying means distinct from said amplifiers and each connected to receive said first error signal and each having a gain control voltage due to rectification by said rectifying means responsive to said first error voltage, one said circuit being connected to apply its gain control voltage to said first amplifier to increase the gain thereof with increase of amplitude of said first error signal, the other said circuit being connected to apply its gain control voltage to said second amplifier to decrease the gain thereof with increase of amplitude of said first error signal, and means to combine continuously the outputs of said amplifiers to provide a control signal, and a motor electrically connected to receive said control signal and mechanically connected to said object and responsive to said control signal to drive said object toward positional correspondence with said control element.

2,670,457

DETECTOR FOR FERROUS METAL

Robert B. Hartman, Bridgeport, and William H. Aitken, Milford, Conn., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Connecticut

Application January 23, 1952, Serial No. 267,816
11 Claims. (Cl. 324—41)



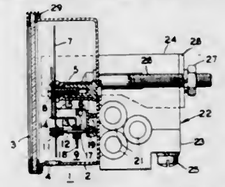
1. A testing instrument comprising a housing of non-magnetic material having one side which is adapted to be placed in contact with a surface to be tested; a permanently magnetic element supported within said housing for movement toward and away from said side, said magnetic element being arranged to be attracted toward any ferro-magnetic material beyond the side of said housing; and yieldable non-gravitational retracting means mounted within said housing and acting in opposition to any force attracting said magnetic element toward said side, said retracting means being adjustable in force to be capable of overcoming the force attracting said magnetic element toward ferro-magnetic material beyond the side of said housing only when said attracting force is less than a predetermined value indicative of a predetermined safe distance to said ferro-magnetic material, the magnetic element and the supporting means therefor being statically balanced with regard to gravitational forces in any direction of orientation of said instrument whereby the instrument may be used in any position and said magnetic element will be positioned solely by the greater of the forces including the force exerted by the retracting means and the force attracting said magnetic element toward ferro-magnetic material beyond the side of said housing, said testing instrument including yieldable retaining means to secure the magnetic element in its position of maximum displacement toward said side when the instrument is not in use; and means to release said retaining means to permit said magnetic element to position itself in response to the opposing force of attraction toward said ferro-magnetic material and the force of said retracting means.

2,670,458

PROXIMITY AMMETER

Carl O. Bathgate, Rumson, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application February 3, 1950, Serial No. 142,265
3 Claims. (Cl. 324—147)



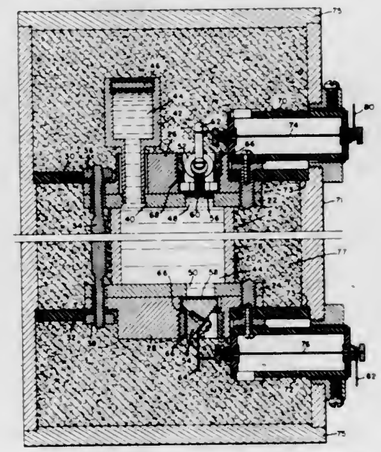
1. An electrical measuring instrument which is actuated by current flowing in a conductor adjacent thereto, comprising a non-magnetic housing, a pair of supporting members secured thereto, a bracket member and a dial plate secured to said supporting members, a shaft rotatably supported by said dial plate and said bracket member, said shaft having an armature, a pointer, a zeroing armature, and a counter-balance attached thereto and rotatable with said shaft, a stationary permanent magnet secured to said bracket member and so positioned with respect to said zeroing armature to effect said zeroing armature so as to maintain said pointer in a predetermined position in the absence of current flow in a conductor adjacent thereto, non-magnetic means for positioning said instrument relative to a conductor in which the current therein is to be measured.

2,670,459

ACOUSTIC DELAY DEVICE

John Presper Eckert, Jr., Gladwyne, and John W. Mauchly, Ambler, Pa., assignors to Eckert-Mauchly Computer Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Original application October 31, 1947, Serial No. 783,328. Divided and this application April 28, 1951, Serial No. 223,514
6 Claims. (Cl. 333—30)



1. In an acoustic delay device; a plurality of transducers each comprising an acoustic sig-

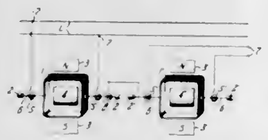
nal attenuating support having a crystal mounting surface non-parallel with its other bounding surfaces, a crystal having an exposed surface and an attaching surface, and an electrically conductive material between and adhering to said mounting surface of said support and the attaching surface of said crystal; a body having an enclosed chamber and retaining said transducers arranged in pairs having their exposed crystal surfaces opposite and parallel to each other; and a fluid within the chamber of said body directly engaging the exposed crystal surfaces of said transducers.

2,670,460

SUBAUDIO ELECTRICAL FILTER

Roswell W. Gilbert, Montclair, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey

Application January 9, 1951, Serial No. 205,126
3 Claims. (Cl. 333—71)



1. In an electrical filter, the combination with a permanent magnet-moving coil intrument comprising a permanent magnet for establishing a magnetic field, a moving system including a coil supported for oscillation in said magnetic field in response to currents of sub-audio frequency therethrough, and spiral springs constituting current connections to said coil and tuning said moving system to mechanical resonance at a preselected sub-audio frequency; of a second moving system supported for oscillatory motion independently of said first moving system, spiral spring means tuning said second moving system to mechanical resonance at substantially said preselected frequency, and resilient means coupling said second moving system to said first moving system for actuation thereby, said second moving system comprising a coil movable in a unidirectional magnetic field, said spiral spring means constituting current connection to terminals across which an alternating voltage of substantially said preselected frequency is developed upon oscillation of said second moving system.

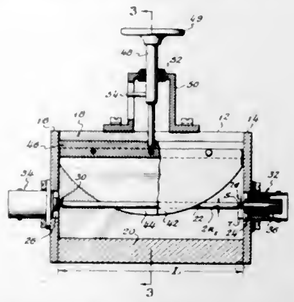
2,670,461

ELECTROMAGNETIC WAVE ATTENUATOR

Vincent R. Learned, Garden City, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application September 29, 1949, Serial No. 118,604
3 Claims. (Cl. 333—81)

1. An attenuator for insertion between two coaxial line sections comprising a metallic member defining a pair of spaced parallel inner surfaces, a pair of end plates closing off opposite ends of said metallic member, the coaxial line sections having their outer conductors terminating at said end plates, an inner conducting member extending between and connecting the inner conductors of said coaxial line sections, said inner conducting member extending longitudinally in the space between said parallel inner surfaces, a longitudinal support member adjustably positioned between the parallel surfaces parallel to said inner conducting member, a pair of spaced parallel cards of resistive material secured to the support member and positioned on either side of the inner conducting member, and



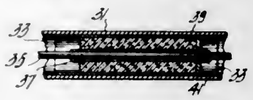
means carried by the metallic member for adjustably positioning the support member.

2,670,462

SPONGE GLASS SEAL FOR WAVE GUIDES

Ernest G. Linder, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 28, 1949, Serial No. 96,091
13 Claims. (Cl. 333—96)



1. A high frequency transmission system including a conductive metallic structure a portion of which defines a passage positioned in the system to permit the transfer of electromagnetic energy from one part of the system to another through the structure, and an electromagnetic energy permeable sponge glass insulator located in said passage and bonded to said portion in gas-tight relation to seal said passage without preventing said transfer of energy, said insulator being formed to have a sponge-like structure in which the ratio of the volume of solid material to that of interstitial space has a value between .01 and .1 for which the insulator has a dielectric constant close to unity.

2,670,463

METHOD AND MEANS FOR REMOTE SELECTING MEMBERS

François Henri Raymond, Le Vesinet, and Gérard Jean René Piel, Paris, France, assignors to Societe d'Electronique et d'Automatisme, Paris, France, a corporation of France

Application July 13, 1950, Serial No. 173,656
Claims priority, application France July 18, 1949
9 Claims. (Cl. 340—147)

1. In a selective signaling system the combination of a group of control members each having normally unenergized control circuits and each having a distinctive control signal assigned thereto, a checking signal generator for each control member for generating a checking signal corresponding to the assigned signal of said control member, said control signals each having a prefix portion which is the same for all of said control members and a body portion which is individual to a particular control member, means responsive to said common prefix portion of a received control signal for generating an actuating signal, connections including delay means for applying said actuating signal to all said control circuits in

said group after a certain time delay and in a direction tending to energize said control circuits, connections for simultaneously energizing all of said checking signal generators by said actuating signal, a signal comparator for each control member, each having input and output circuits, connections for supplying the received control signal in common to the input circuits of all said comparators, connections for supplying the respective checking signals to the inputs of their corresponding comparators for comparison therein with said commonly supplied received control signal so that the output circuit of the compara-



tor receiving a checking signal like the received control signal yields a null voltage and the output circuits of all other comparators yield a comparison voltage, and means extending between the output circuits of the respective comparators and the control circuits of their corresponding control members for supplying the comparison voltages in a direction to oppose said energizing tendency of said delayed actuating signals in said control circuits, whereby said delayed actuating signal energizes only the control circuit of the control member to which said received control signal is assigned.

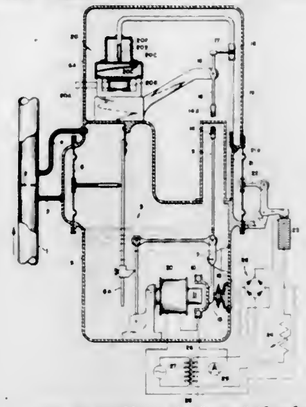
2,670,464

MEASURING AND TRANSMITTING DEVICE FOR FLOW VELOCITIES AND THE LIKE

Guido Wünsch and Horst Ziegler, Berlin, Germany; said Wünsch assignor to Askania-Werke A.-G., a corporation of Germany

Application October 17, 1950, Serial No. 190,453
Claims priority, application Germany October 29, 1949
3 Claims. (Cl. 340—187)

1. In an instrument for determining a condition and remotely reflecting it, a condition-responsive device; an electro-magnet; a lever fulcrumed for shifting by the condition-responsive device and for compensatory shifting by the electro-magnet; means forming an electric Wheatstone bridge circuit, with the coil of the electro-magnet in series with a remote receiver in the diagonal of the bridge; and means forming an auxiliary fluid circuit, comprising low pressure air-blower means to continuously maintain an air jet, a jet receiver nozzle opposite the jet, a vane movable by said lever to cut into the air jet in front of the jet receiver nozzle and thereby to direct variable portions of the low pressure of the air jet into the jet receiver nozzle, a low pressure diaphragm device connected with the jet receiver nozzle to be shifted by variable air pressures therein, and a compression rheostat in one arm of said Wheatstone bridge circuit, said compression rheostat being arranged for compression by the diaphragm device; whereby impulses in the condition-responsive device instant-



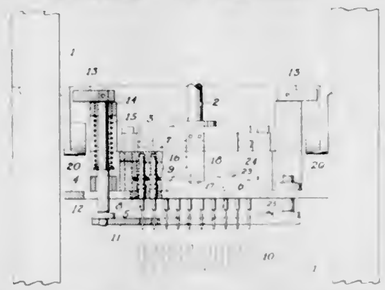
ly produce corresponding shifts of the lever, vane, diaphragm device, compression rheostat, bridge circuit and electro-magnet, the electro-magnet rebalancing the lever and the remote receiver in series with the electro-magnet reflecting the impulses.

2,670,465

INITIATOR MANUFACTURING APPARATUS

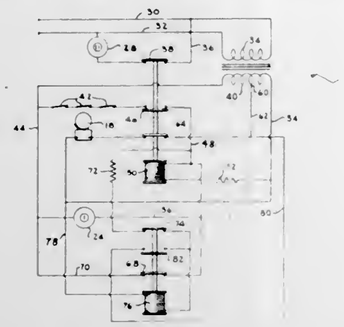
Charles Russell Johnson, Glen Mills, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application May 21, 1952, Serial No. 289,023
3 Claims. (Cl. 340—265)



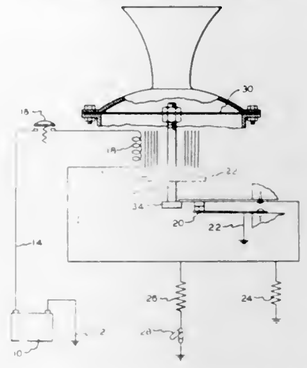
1. A charge checking device for initiator shells comprising a housing having a plurality of vertical bores, an initiator shell positioning area below said housing, a horizontally movable plate within said housing having openings normally in axial alignment with said bores, probing elements projecting below said housing passing through said plate openings and guided by said bores, said probing elements being normally maintained in a downwardly extended position, and having an area of substantially the same diameter as the plate openings at that portion normally at the plate level, and an area of reduced diameter immediately below said portion, means for lowering said housing a predetermined distance towards said shell positioning area, whereby said probes enter initiator shells and contact a charge therein, means exerting a horizontal force on one end of said movable plate, signal means responsive to horizontal motion of said plate, means for raising said housing to the original level, and means for returning said plate to said normal position.

2,670,466
BURGLAR ALARM SYSTEM
Arthur R. Harper, Detroit, Mich., assignor of fifty per cent to W. R. Findlay, Detroit, Mich.
Application March 24, 1950, Serial No. 151,631
2 Claims. (Cl. 340—276)



1. A burglar alarm system comprising an alarm and a circuit therefor, a control circuit including in series therein the winding of a control relay, a plurality of switches adapted to open when entry through a door, window or the like is attempted and a first contact of said relay closed by the relay winding when it is energized, the alarm circuit including therein a second contact of said relay closed when the relay winding is de-energized, a lock switch in parallel with the said switches and the first relay contact for independently energizing the relay winding so that lawful entry may be made through said door or window without causing the alarm circuit to be closed, all of the said circuits being fed from a single source of power, so that in case of failure of the source of power the relay winding will be de-energized and will not be able to be re-energized, upon restoration of the source of power, due to the opening of the first relay contact and the alarm will not operate in the absence of power from said source, and means for restoring said relay by momentarily re-energizing said winding when the power is restored comprising a relay having a winding connected to the power source and having a contact closed in a re-energizing circuit for the first relay independent of the first relay contact when the second relay is de-energized.

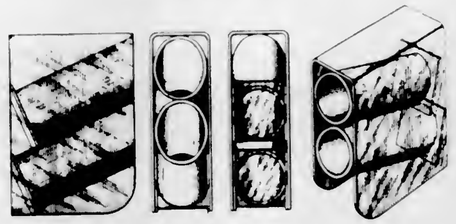
2,670,467
HIGH AND LOW VOLUME HORN
Cleafe A. Best, Jackson, and Lloyd E. Johnson, Parma, Mich., assignors to Sparks-Withington Company, Jackson, Mich., a corporation of Ohio
Application November 14, 1950, Serial No. 195,679
3 Claims. (Cl. 340—328)



3. In a magnetic type horn having a field coil for operating the armature attached to the diaphragm of the horn, a pair of contact breaker points actuated by the armature and a point protection resistor in series with said field coil, an output volume control resistor connected in series with said field coil and parallel to said protection resistor, and selectively operable switch mechanism for rendering said volume control resistor active and inactive to regulate the flow of current through the field coil when said points are open.

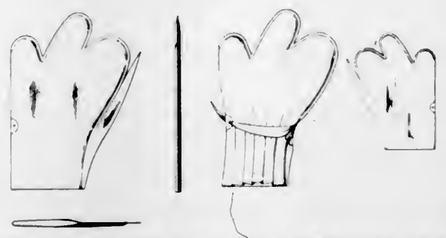
DESIGNS
FEBRUARY 23, 1954

171,523
HAIR CLIPPER HOLDER
Charles E. Babcock, Pismo Beach, Calif.
Application November 17, 1952, Serial No. 22,329
Term of patent 14 years
(Cl. D86—10)



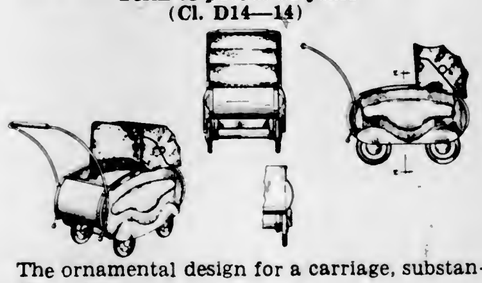
The ornamental design for a hair clipper holder, substantially as shown.

171,524
DISPOSABLE GLOVE
Richard G. Baender, Delano, Calif.
Application December 1, 1952, Serial No. 22,508
Term of patent 14 years
(Cl. D3—11)



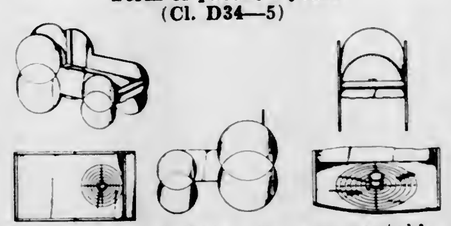
The ornamental design for a disposable glove, as shown.

171,525
CARRIAGE
Hans K. Bergmann, Grayslake, Ill.
Application May 18, 1953, Serial No. 25,098
Term of patent 14 years
(Cl. D14—14)



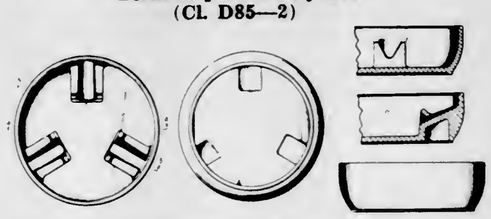
The ornamental design for a carriage, substantially as shown.

171,526
GAME TABLE
Vincent E. Brotherton, Van Nuys, Calif.
Application October 27, 1952, Serial No. 22,001
Term of patent 7 years
(Cl. D34—5)



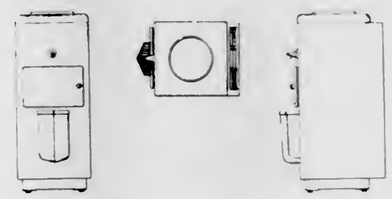
The ornamental design for a game table, as shown and described.

171,527
ASH TRAY
Arthur J. Brown, Pasadena, Calif.
Application March 23, 1953, Serial No. 24,168
Term of patent 14 years
(Cl. D85—2)



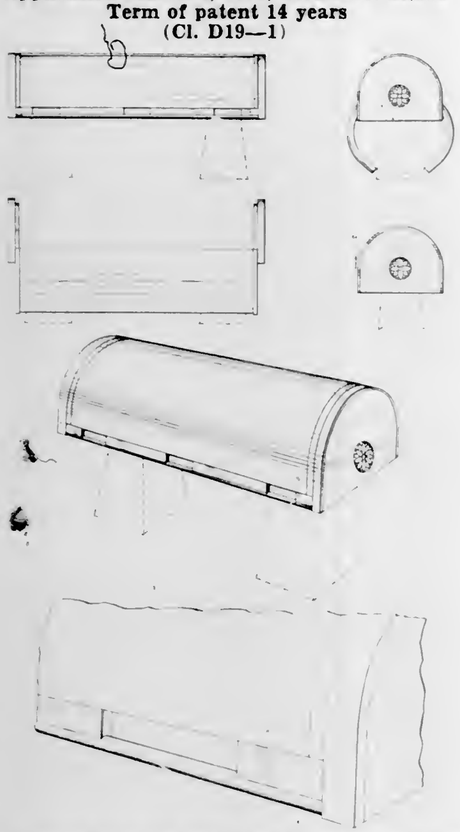
The ornamental design for an ash tray, substantially as shown.

171,528
WATER COOLER
James A. Canter, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application July 25, 1952, Serial No. 20,760
Term of patent 7 years
(Cl. D67—4)



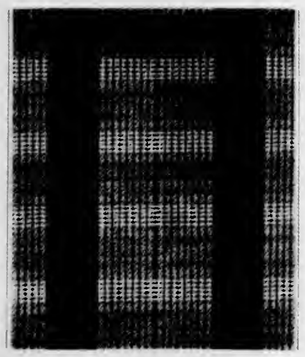
The ornamental design for a water cooler, as shown and described.

171,529
BURIAL COUCH
William J. Cherry, Chicago, Ill., assignor of one-half to Bridgit E. McGrath, Chicago, Ill.
Application March 2, 1953, Serial No. 23,854
Term of patent 14 years
(Cl. D19—1)



The ornamental design for a burial couch, substantially as shown and described.

171,530
TEXTILE FABRIC
Paul P. Chiarelli, Brooklyn, N. Y., assignor to Chicopee Mills, Inc., a corporation of New York
Application August 13, 1953, Serial No. 26,441
Term of patent 14 years
(Cl. D92—1)



The ornamental design for a textile fabric, as shown.

171,531
COSMETIC AND MEDICINE CONTAINER
Samuel Cramer, West Hartford, Conn.
Application January 26, 1953, Serial No. 23,299
Term of patent 14 years
(Cl. D58—9)



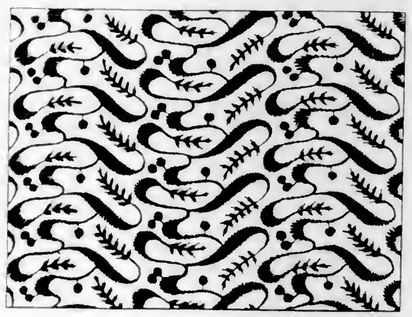
The ornamental design for a cosmetic and medicine container, as shown and described

171,532
BRUSH
Christy M. Del Mas, New York, N. Y., assignor to Michael P. Grace, New York, N. Y.
Application October 5, 1953, Serial No. 27,071
Term of patent 14 years
(Cl. D86—10)



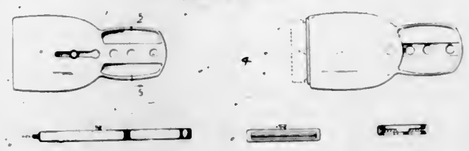
The ornamental design for a brush, as shown.

171,533
EMBROIDERED FABRIC
Mortimer H. Ehrman, New York. N. Y.
Application September 23, 1953, Serial No. 26,929
Term of patent 3½ years
(Cl. D92—1)



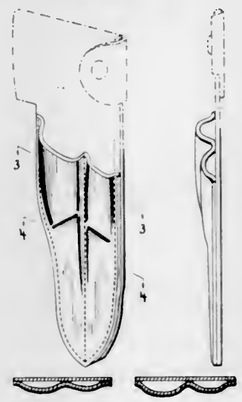
The ornamental design for an embroidered fabric, substantially as shown.

171,534
RAZOR BLADE SCRAPER
Alan C. Ferguson, Southbridge, Mass., assignor to Hyde Manufacturing Company, Southbridge, Mass., a corporation of Massachusetts
Application February 13, 1953, Serial No. 23,609
Term of patent 14 years
(Cl. D8—6)



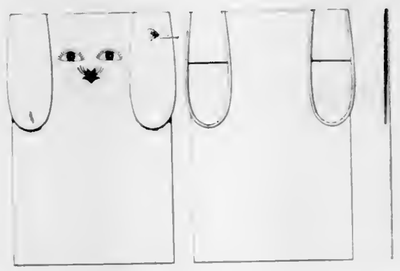
The ornamental design for a razor blade scraper, as shown and described.

171,535
TOOL SHEATH
Maurice H. Fisher, Douglas County, Colo.
Application July 23, 1953, Serial No. 26,100
Term of patent 14 years
(Cl. D22—6)



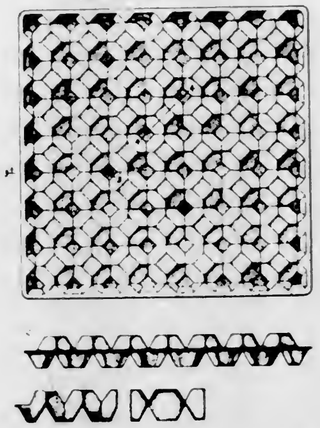
The ornamental design for a tool sheath, as shown and described.

171,536
PILLOWCASE
Anna Z. Flanagin, Bozeman, Mont.
Application August 13, 1953, Serial No. 26,442
Term of patent 3½ years
(Cl. D92—26)



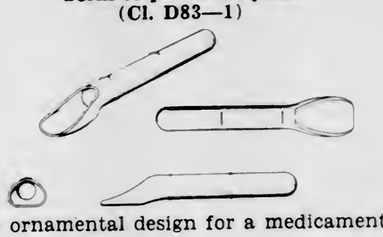
The ornamental design for a pillowcase, as shown.

171,537
MOLDED PULP INSULATION MEMBER
Richard S. French, Waterville, Maine, assignor to Keyes Fibre Company, Portland, Maine, a corporation of Maine
Application June 1, 1951, Serial No. 15,371
Term of patent 14 years
(Cl. D58—13)



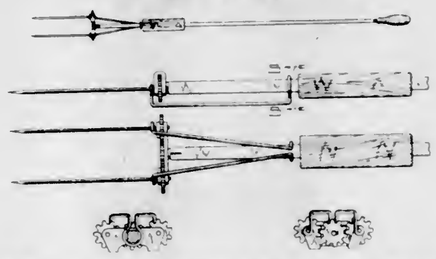
The ornamental design for a molded pulp insulation member, as shown.

171,538
MEDICAMENT DISPENSER
Irvin J. Gershen, Hillside, N. J., assignor to Joseph Oshman and Solomon Oshman, New York, N. Y.
Application March 12, 1953, Serial No. 24,005
Term of patent 14 years
(Cl. D83—1)



The ornamental design for a medicament dispenser, as shown.

171,539
ROTARY SPIT UNIT FOR ROASTING
James A. Goodsell, Hudson, Mich.
Application July 6, 1953, Serial No. 25,809
Term of patent 14 years
(Cl. D81—10)



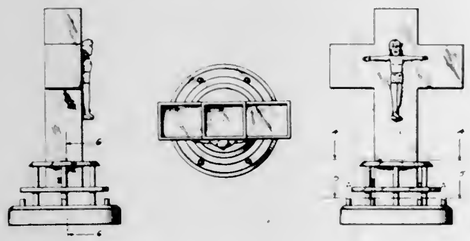
The ornamental design for a rotary spit unit for roasting, as shown.

171,540
DECANTER OR SIMILAR ARTICLE
Otto Grun, New York, N. Y.
Application July 10, 1953, Serial No. 25,884
Term of patent 14 years
(Cl. D58—9)



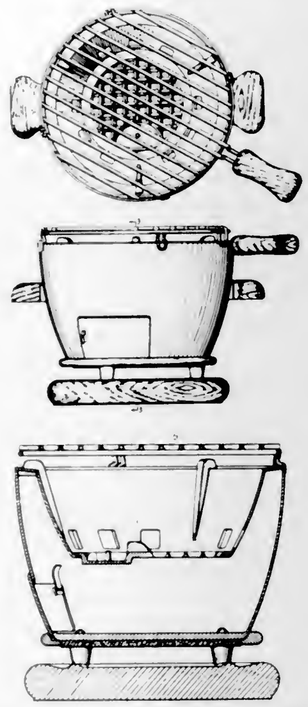
The ornamental design for a decanter or similar article, as shown.

171,541
ILLUMINABLE FONT
Sam W. Hailey, Indianapolis, Ind.
Application April 20, 1953, Serial No. 24,579
Term of patent 14 years
(Cl. D29—23)



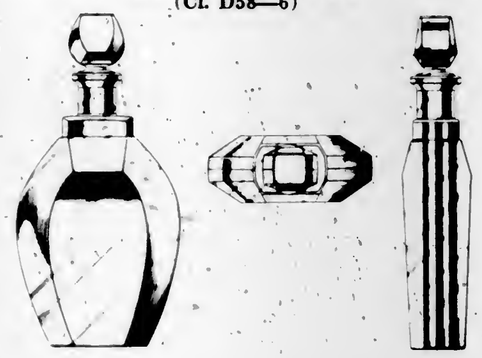
The ornamental design for an illuminable font, substantially as shown and described.

171,542
COMBINATION BROILER AND BRAZIER
Dean S. Harrel, Los Angeles, Calif., assignor to Harrel & Co., Los Angeles, Calif., a limited partnership doing business as World's Best Broiler Brazier Mfg. Co., Ltd.
Application September 14, 1953, Serial No. 26,800
Term of patent 14 years
(Cl. D81—10)



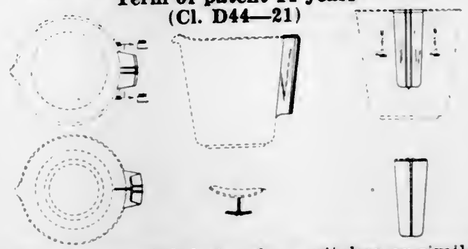
The ornamental design for a combination broiler and brazier, substantially as shown.

171,543
DECANTER
Robert E. Hennessy, Summit, N. J., assignor to National Distillers Products Corporation, New York, N. Y.
Application September 28, 1953, Serial No. 26,983
Term of patent 14 years
(Cl. D58—6)



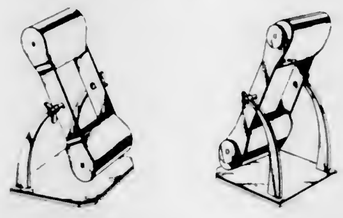
The ornamental design for a decanter, as shown and described.

171,544
PITCHER OR SIMILAR ARTICLE
Douglas L. Jocelyn, Detroit, Mich.
Application August 28, 1953, Serial No. 26,619
Term of patent 14 years
(Cl. D44—21)



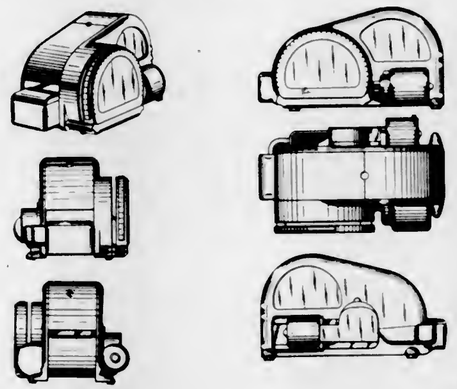
The ornamental design for a pitcher or similar article, as shown and described.

171,545
TELEVISION PROGRAM DISPLAY STAND
Rodney A. Johnson, Salem, N. J.
Application August 3, 1953, Serial No. 26,257
Term of patent 14 years
(Cl. D1—2)



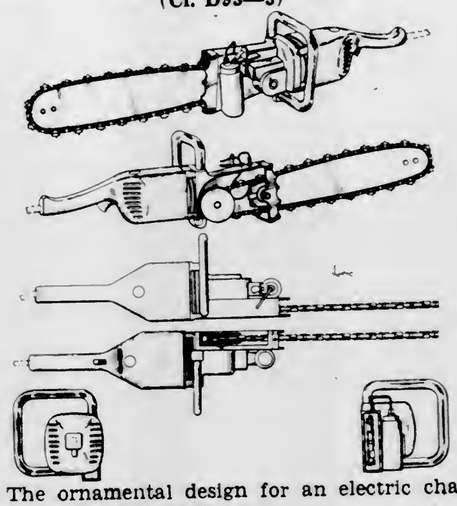
The ornamental design for a television program display stand, as shown.

171,546
TAPE DISPENSER CASING
Eino E. Lakso, Fitchburg, Mass., assignor to Nashua Corporation, Nashua, N. H., a corporation of Massachusetts
Application December 26, 1952, Serial No. 22,879
Term of patent 14 years
(Cl. D74—1)



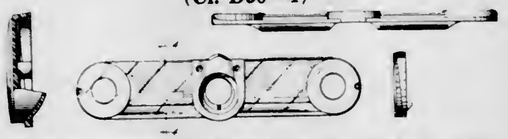
The ornamental design for a tape dispenser casing, substantially as shown.

171,547
ELECTRIC CHAIN SAW
Charles A. Latimer, Toledo, Ohio, assignor to The American Floor Surfacing Machine Company, Toledo, Ohio, a corporation of Ohio
Application September 10, 1953, Serial No. 26,758
Term of patent 14 years
(Cl. D93—3)



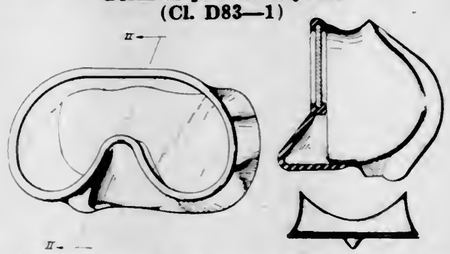
The ornamental design for an electric chain saw, substantially as shown.

171,548
ESCUTCHEON PLATE FOR TELEVISION RECEIVERS
Richard C. Marholz, Chicago, Ill., assignor to Raytheon Manufacturing Company, a corporation of Delaware
Application September 24, 1952, Serial No. 21,559
Term of patent 3½ years
(Cl. D56—4)



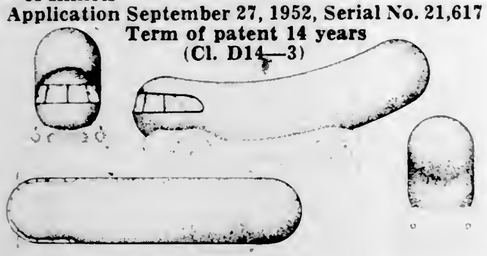
The ornamental design for an escutcheon plate for television receivers, substantially as shown.

171,549
SWIM MASK
James N. Matheson, West Reading, Pa., assignor to Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania
Application December 12, 1951, Serial No. 17,700
Term of patent 14 years
(Cl. D83—1)



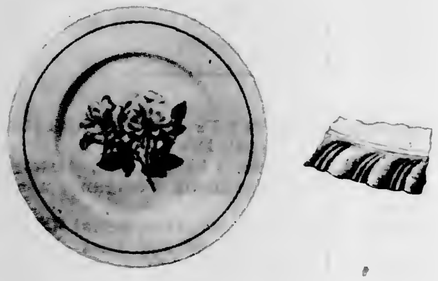
The ornamental design for a swim mask, substantially as shown.

171,550
AUTOMOTIVE VEHICLE
Carl G. Mayer, Madison, Wis., assignor to Oscar Mayer & Co., Inc., Chicago, Ill., a corporation of Illinois
Application September 27, 1952, Serial No. 21,617
Term of patent 14 years
(Cl. D14—3)



The ornamental design for an automotive vehicle, substantially as shown and described.

171,551
DINNER PLATE OR SIMILAR ARTICLE
Charles H. McKaig, Camillus, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application June 28, 1952, Serial No. 20,400
Term of patent 14 years
(Cl. D44—15)



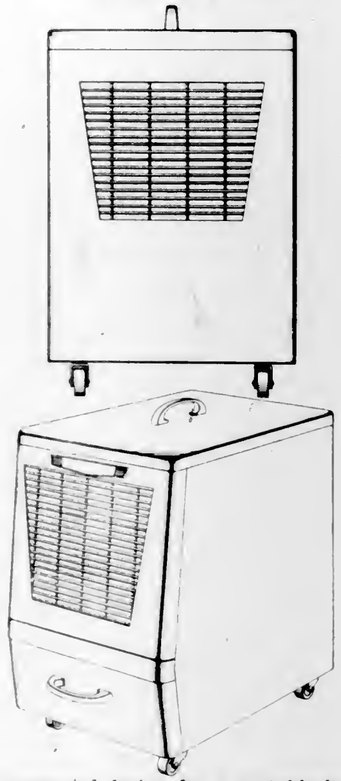
The ornamental design for a dinner plate or similar article, as shown and described.

171,552
TEXTILE FABRIC
John J. Petroske, Methuen, Mass., assignor to Patchogue-Plymouth Mills Corporation, New York, N. Y., a corporation of New York
Application September 8, 1953, Serial No. 26,745
Term of patent 14 years
(Cl. D92—1)



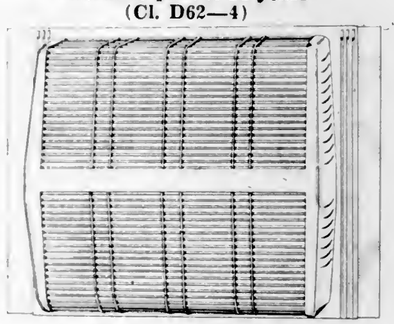
The ornamental design for a textile fabric, as shown.

171,553
PORTABLE HUMIDIFIER OR THE LIKE
Robert Podall, Chicago, Ill., assignor to Berns Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application April 27, 1953, Serial No. 24,689
Term of patent 14 years
(Cl. D62—4)



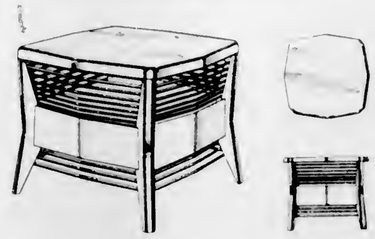
The ornamental design for a portable humidifier or the like, substantially as shown and described.

171,554
HOUSING FOR A WINDOW VENTILATOR
Robert Podall, Chicago, Ill., assignor to Berns Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application April 27, 1953, Serial No. 24,690
Term of patent 14 years
(Cl. D62—4)



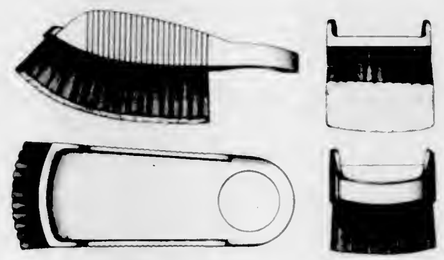
The ornamental design for a housing for a window ventilator, substantially as shown and described.

171,555
FLOOR TYPE AIR CIRCULATOR
Robert Podall, Chicago, Ill., assignor to Berns Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application April 27, 1953, Serial No. 24,691
Term of patent 14 years
(Cl. D26—7)



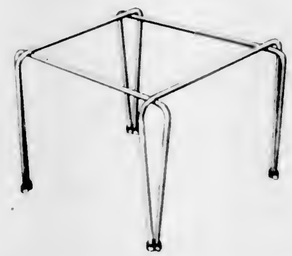
The ornamental design for a floor type air circulator, substantially as shown and described.

171,556
BRUSH
Albert R. Racicot, Aurora, Ill., assignor to National Brush Company, Aurora, Ill., a corporation of Illinois
Application August 5, 1953, Serial No. 26,294
Term of patent 14 years
(Cl. D9—2)



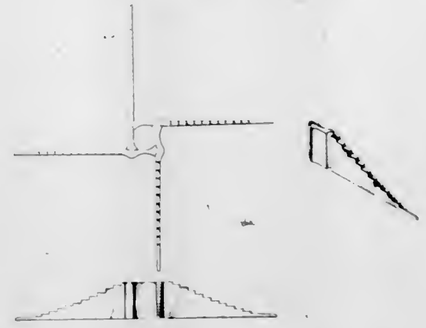
The ornamental design for a brush, substantially as shown.

171,557
STAND FOR TELEVISION RECEIVERS
William Remstein, Syracuse, N. Y.
Application September 9, 1953, Serial No. 26,751
Term of patent 14 years
(Cl. D33—14)



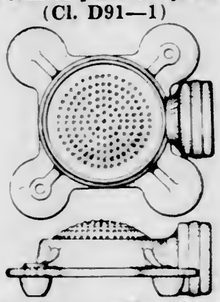
The ornamental design for a stand for television receivers, substantially as shown.

171,558
TREE STAND
Arlo E. Rice, Mineral Wells, Tex.
Application October 31, 1952, Serial No. 22,072
Term of patent 7 years
(Cl. D29—17)



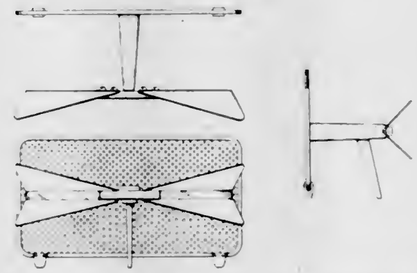
The ornamental design for a tree stand, as shown.

171,559
SPRAY TYPE LAWN SPRINKLER
George W. Rienks, Denver, Colo.
Application July 24, 1953, Serial No. 26,119
Term of patent 7 years
(Cl. D91—1)



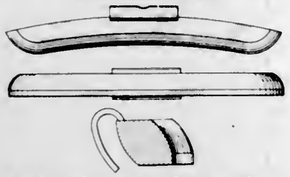
The ornamental design for a spray type lawn sprinkler, substantially as shown.

171,560
INDOOR TELEVISION ANTENNA
Sheldon Rutter, Evanston, Ill., assignor to Channel Master Corporation, Ellenville, N. Y., a corporation of New York
Application October 27, 1953, Serial No. 27,352
Term of patent 14 years
(Cl. D26—14)



The ornamental design for an indoor television antenna, as shown and described.

171,561
WHEEL BALANCING WEIGHT
William P. Smissen, Kokomo, Ind.
Application December 3, 1952, Serial No. 22,523
Term of patent 7 years
(Cl. D14—30)



The ornamental design for a wheel balancing weight, as shown.

171,562
WRISTBAND FOR A WRIST WATCH
Elmer J. Towle, San Francisco, Calif.
Application October 10, 1952, Serial No. 21,779
Term of patent 14 years
(Cl. D45—4)



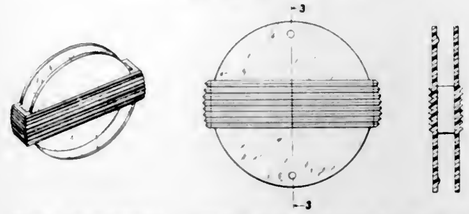
The ornamental design for a wristband for a wrist watch, as shown.

171,563
RING HOLDER
Samuel Tylon, Cleveland, Ohio
Application May 14, 1953, Serial No. 25,011
Term of patent 14 years
(Cl. D86—9)



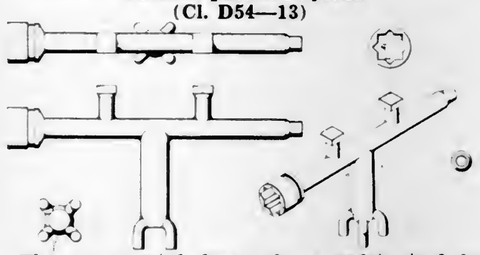
The ornamental design for a ring holder, as shown and described.

171,564
FILTER SHEATH
Kenneth A. Van Dyck, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 26, 1953, Serial No. 24,201
Term of patent 3½ years
(Cl. D61—1)



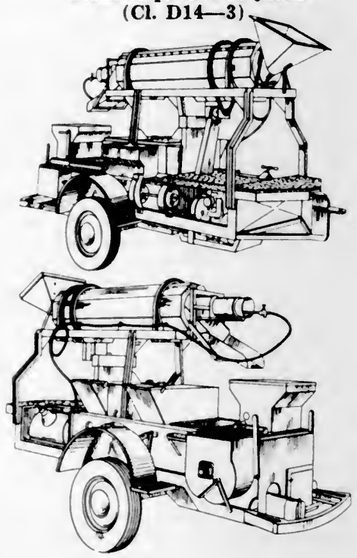
The ornamental design for a filter sheath, as shown.

171,565
SAFETY TOOL FOR PRESSURE TANK CARS
Emil E. Wickman, Orinda, Calif.
Application March 2, 1953, Serial No. 23,830
Term of patent 14 years
(Cl. D54—13)

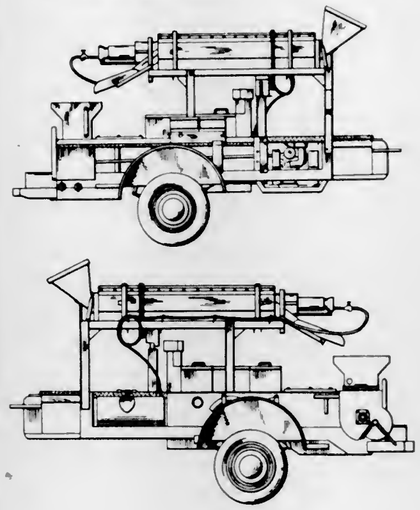


The ornamental design for a safety tool for pressure tank cars, substantially as shown.

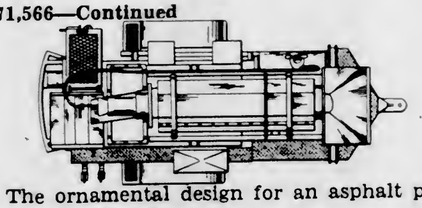
171,566
ASPHALT PATCHING MACHINE
William H. Wylie, Oklahoma City, Okla.
Application May 13, 1953, Serial No. 24,987
Term of patent 14 years
(Cl. D14—3)



171,566—Continued

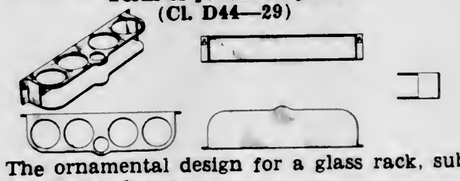


171,566—Continued



The ornamental design for an asphalt patching machine, as shown.

171,567
GLASS RACK
Bernard J. Zarzana and Roy T. Turner, Whittier, Calif.
Application April 13, 1953, Serial No. 24,478
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a glass rack, substantially as shown.

OFFICIAL GAZETTE UNITED STATES PATENT OFFICE

JAN. & FEB. 1954

VOLS 678 & 679

MICROFILMED BY

MICRO PHOTO INC

CLEVELAND, OHIO